



Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

UK Technical Assessment	UKTA-0836-24/7085 of 24/01/2024
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	Eurofast Flat Roof Fasteners
Product family to which the construction product belongs:	Product code 03 Fasteners for flexible roof waterproofing systems
Manufacturer:	Van Roij Fasteners Europe B.V. (EUROFAST / EUROFAST GROUP) Indumastraat 18 5753 RJ Deurne Netherlands
Manufacturing plant(s):	Van Roij Fasteners Europe B.V. plants
This UK Technical Assessment contains:	321 pages including 21 Annexes which form an integral part of this Assessment
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of:	UKAD 030351-00-0402 <i>Systems of mechanically fastened flexible roof waterproofing sheets</i>

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1. Technical description of the product

Eurofast Flat Roof Fasteners are mechanical fasteners comprising a screw, washer, washer with integral sleeve or linear washer. Screws are made of stainless steel or carbon steel protected by ceramic coating Eurofast Coat 15C or Eurofast Coat 30C. Washers (metal pressure plates) and linear washers (termination bars) are made of carbon steel protected by Aluzinc coating. Washers with integrated sleeve (pressure plates with tube) are made of plastic material: polyamide (PA) or polypropylene (PP) with addition of polyethylene (PE).

Eurofast Flat Roof Fasteners are shown in the Annexes to this UK Technical Assessment.

2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

Eurofast Flat Roof Fasteners are intended to be used for flexible roof waterproofing systems according to UKAD 030351-00-0402. The product can be used on steel or aluminium sheets, concrete, autoclaved aerated concrete, OSB/3 sheets, chipboards, plywood and timber substrates. The plastic parts of the fasteners should not be exposed to UV and water.

The performance given in Section 3 is only valid if the fasteners are used in compliance with the specifications and conditions given in the Annexes.

The provisions made in this UK Technical Assessment are based on an assumed working life of the products of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or Technical Assessment Body but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

Systems of mechanically fastened flexible roof waterproofing membrane according to UKAD 030351-00-0402 should be covered by a separate UKTA.

3. Performance of the product and references to the methods used for its assessment

3.1. Mechanical resistance and stability (BWR 1)

Not applicable

3.2. Safety in case of fire (BWR 2)

Not applicable

3.3. Health, hygiene and the environment (BWR 3)

Not applicable

3.4. Safety and accessibility in use (BWR 4)

3.4.1 Fastener axial loads

Fastener axial loads are given in Annex A.1, A.2, B.1, B.2, C.1, C.2, D.1, D.2, E.1, E.2, F.1, G.1, G.2, H.1, H.2, I.1, I.2, J.1, J.2, K.1, K.2, L.1, L.2, M.1, N.1, N.2, O.1, O.2, P.1, R.1, S.1, T.1 and U.1.

3.4.2 Resistance to fastener unwinding

The fasteners are considered to be safe against unwinding. This was evaluated on the basis of the existing field experience of the manufacturer.

3.4.3 Mechanical resistance / brittleness of plastic elements

Plastic elements of fasteners are resistant to impact and brittleness, after impact of weight from drop height $\geq 1.0\text{ m}$.

3.4.4 Resistance to corrosion of metallic elements

All elements made of coated carbon steel, subjected to 15 cycles of action of a humid atmosphere containing 2.0 l SO₂ do not show more than 15% surface corrosion.

3.4.5 Mechanical resistance after heat ageing of plastic fasteners

Plastic elements, after heat ageing, are resistant to impact and brittleness, after impact of weight from drop height ≥ 1.0 m.

3.5. Protection against noise (BWR 5)

Not applicable

3.6. Energy economy and heat retention (BWR 6)

Not applicable

3.7. Sustainable use of natural resources (BWR 7)

Performance not assessed

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied

4.1. System of assessment and verification of constancy of performance

According to UKAD No. 030351-00-0402 and Annex V of the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 2+ applies.

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

5.1. UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 24 January 2024

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Chief Executive Officer



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Screw / Fastener		Figure Annex	Characteristic loads Annex	Parameters Annex	Assemblies Annex	
Product key	Alternative product keys					
EDS-S-48xLL	ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M	ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M	A.1 (p. 8)	A.1 and A.2 (p. 8, 9)	A.3 (p. 10)	A.4 to A.27
EDS-B-48xLL	ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M	ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M	B.1 (p. 35)	B.1 and B.2 (p. 35, 36)	B.3 (p. 37)	B.4 to B.27
EDS-B-58xLL	ERSS-58xLL-2-T25-30C	-	C.1 (p. 62)	C.1 and C.2 (p. 62, 63)	C.3 (p. 64)	C.4 to C.21
EDS-SRB-48xLL	ERSS-48xLL-2-T25-B	ERSS-48xLL-2-PH2-B	D.1 (p. 83)	D.1 and D.2 (p. 83, 84)	D.3 (p. 85)	D.4 to D.27
EFXHD-67xLL	ERSS-67xLL-2-T25-M	-	E.1 (p. 110)	E.1 and E.2 (p. 110, 111)	E.2 (p. 111)	E.3 to E.18
DFHD-67xLL	ERSS-67xLL-2-PH3-15C	-	F.1 (p. 128)	F.1 (p. 128)	F.2 (p. 129)	F.3 to F.9
EDS-BZT-48xLL / EDS-BGT-48xLL	ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M / ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C	-	G.1 (p. 137)	G.1 and G.2 (p. 137, 138)	G.3 (p. 139)	G.4 to G.14
EDS-BZTHD-48xLL / EDS-BGTHD-48xLL	ERSS-48xLL-3-HWH-15C / ERSS-48xLL-3-HWH-15C-C	-	H.1 (p. 151)	H.1 and H.2 (p. 151; 152)	H.2 (p. 152)	H.3 to H.13
EDS-BZTR-48xLL / EDS-BGTR-48xLL	ERSS-48xLL-2-HWH-B / ERSS-48xLL-2-HWH-B-C	-	I.1 (p. 164)	I.1 and I.2 (p. 164; 165)	I.3 (p. 166)	I.4 to I.14
EDS-H-50xLL	ERWS-50xLL-0-PH2-15C	ERWS-50xLL-0-T25-15C	J.1 (p. 178)	J.1 and J.2 (p. 178, 179)	J.3 (p. 180)	J.4 to J.28
GBS-60xLL	ERAS-60xLL-0-T25-15C	-	K.1 (p. 206)	K.1 and K.2 (p. 206, 207)	K.3 (p. 208)	K.4 to K.20
GBSA2-60xLL	ERAS-60xLL-0-T25-S	-	L.1 (p. 226)	L.1 and L.2 (p. 226; 227)	L.3 (p. 228)	L.4 to L.20
GBS-80xLL	ERAS-80xLL-0-T25-15C	-	M.1 (p. 246)	M.1 (p. 246)	M.2 (p. 247)	M.3 to M.9
EFHD-63xLL	ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M	-	N.1 (p. 255)	N.1 and N.2 (p. 255, 256)	N.3 (p. 257)	N.4 to N.20
EFR-65xLL	ERCS-65xLL-0-T25-15C	-	O.1 (p. 275)	O.1 and O.2 (p. 275, 276)	O.3 (p. 277)	O.4 to O.20
DFCF-63xLL	ERCS-63xLL-0-HWH-15C	-	P.1 (p. 295)	P.1 (p. 295)	P.2 (p. 296)	P.3 to P.8
DFCF-63xLL-S	ERCS-63xLL-0-FH-15C	-	R.1 (p. 303)	R.1 (p. 303)	R.2 (p. 304)	R.3 to R.4
EAS-65xLL	ERCS-65xLL-0-T25-15C-EAS	-	S.1 (p. 307)	S.1 (p. 307)	S.2 (p. 308)	S.3 to S.10
ISPC-50xLL	ECT-50xLL-PA	-	T.1 (p. 317)	T.1 (p. 317)	T.1 (p. 317)	T.2
ISPCA2-50xLL	ECT-S-50xLL-PA	-	U.1 (p. 319)	U.1 (p. 319)	U.1 (p. 319)	U.2

Eurofast Flat Roof Fasteners	Annex Info.1
Screws / Fasteners	

Screw / Fastener			Substrates				
Product key	Alternative product keys		Steel sheet	Aluminium sheet	Concrete	Autoclaved aerated concrete	OSB/3 Chipboard Plywood Timber
EDS-S-48xLL	ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M	ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M	X				X
EDS-B-48xLL	ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M	ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M	X				X
EDS-B-58xLL	ERSS-58xLL-2-T25-30C		X				X
EDS-SRB-48xLL	ERSS-48xLL-2-T25-B	ERSS-48xLL-2-PH2-B	X	X			X
EFXHD-67xLL	ERSS-67xLL-2-T25-M	-	X				X
DFHD-67xLL	ERSS-67xLL-2-PH3-15C	-	X				X
EDS-BZT-48xLL / EDS-BGT-48xLL	ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M / ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C	-	X				X
EDS-BZTHD-48xLL / EDS-BGTHD-48xLL	ERSS-48xLL-3-HWH-15C / ERSS-48xLL-3-HWH-15C-C	-	X				
EDS-BZTR-48xLL / EDS-BGTR-48xLL	ERSS-48xLL-2-HWH-B / ERSS-48xLL-2-HWH-B-C	-	X	X			X
EDS-H-50xLL	ERWS-50xLL-0-PH2-15C	ERWS-50xLL-0-T25-15C					X
GBS-60xLL	ERAS-60xLL-0-T25-15C	-			X	X	X
GBSA2-60xLL	ERAS-60xLL-0-T25-S	-				X	X
GBS-80xLL	ERAS-80xLL-0-T25-15C	-			X	X	
EFHD-63xLL	ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M	-			X		
EFR-65xLL	ERCS-65xLL-0-T25-15C	-			X		
DFCF-63xLL	ERCS-63xLL-0-HWH-15C	-			X		
DFCF-63xLL-S	ERCS-63xLL-0-FH-15C	-			X		
EAS-65xLL	ERCS-65xLL-0-T25-15C-EAS	-			X		
ISPC-50xLL	ECT-50xLL-PA	-			X		
ISPCA2-50xLL	ECT-S-50xLL-PA	-			X		

Eurofast Flat Roof Fasteners

Substrates

Annex Info.2

Product keys for metal pressure plates and pressure plates tube supplied as pre-assembled combinations with various screws.							
Product key				Alternative product key			
Metal pressure plates or pressure plates with tube	Screw	Pre-assembled combination	Metal pressure plates or pressure plates with tube	Screw	Pre-assembled combination		
TRP-45xLL	+	EDS-S-48xLL	=	TRPS-45	EPT-45xLL-PA	+	ERSS-48xLL-0-PH2-15C = EPTSS-XXX-0-45-48-PA
TRP-45xLL	+	EDS-B-48xLL	=	TRPB-45	EPT-45xLL-PA	+	ERSS-48xLL-2-T25-15C = EPTSS-XXX-2-45-48-PA
TRP-45xLL	+	EDS-SRB-48xLL	=	TRPSRB-45	EPT-45xLL-PA	+	ERSS-48xLL-2-T25-B = EPTSS-XXX-2B-45-48-PA
TRP-45xLL	+	EDS-H-50xLL	=	TRPH-45	EPT-45xLL-PA	+	ERWS-50xLL-0-PH2-15C = EPTWS-XXX-0-45-50-PA
TRP-45xLL	+	EAS-65xLL	=	TRPEAS-45	EPT-45xLL-PA	+	ERCS-65xLL-0-T25-15C-EAS = EPTCS-XXX-YYY-EAS-0-45-65-PA
BTRP-45xLL	+	EDS-S-48xLL	=	BTRPS-45	EPT-B-45xLL-PA	+	ERSS-48xLL-0-PH2-15C = EPTSS-XXX-0-45B-48-PA
BTRP-45xLL	+	EDS-B-48xLL	=	BTRPB-45	EPT-B-45xLL-PA	+	ERSS-48xLL-2-T25-15C = EPTSS-XXX-2-45B-48-PA
BTRP-45xLL	+	EDS-SRB-48xLL	=	BTRPSRB-45	EPT-B-45xLL-PA	+	ERSS-48xLL-2-T25-B = EPTSS-XXX-2B-45B-48-PA
BTRP-45xLL	+	EDS-H-50xLL	=	BTRPH-45	EPT-B-45xLL-PA	+	ERWS-50xLL-0-PH2-15C = EPTWS-XXX-0-45B-50-PA
BTRP-45xLL	+	EAS-65xLL	=	BTRPEAS-45	EPT-B-45xLL-PA	+	ERCS-65xLL-0-T25-15C-EAS = EPTCS-XXX-YYY-EAS-0-45B-65-PA
TWP-8040xLL	+	EDS-S-48xLL	=	TWPS-8040	EPT-8040xLL-PA	+	ERSS-48xLL-0-PH2-15C = EPTSS-XXX-0-8040-48-PA
TWP-8040xLL	+	EDS-B-48xLL	=	TWPB-8040	EPT-8040xLL-PA	+	ERSS-48xLL-2-T25-15C = EPTSS-XXX-2-8040-48-PA
TWP-8040xLL	+	EDS-H-50xLL	=	TWPH-8040	EPT-8040xLL-PA	+	ERWS-50xLL-0-PH2-15C = EPTWS-XXX-0-8040-50-PA
TLK-45xLL	+	EDS-S-48xLL	=	TLKS-45	EPT-45xLL-PP	+	ERSS-48xLL-0-PH2-15C = EPTSS-XXX-0-45-48-PP
TLK-45xLL	+	EDS-B-48xLL	=	TLKB-45	EPT-45xLL-PP	+	ERSS-48xLL-2-T25-15C = EPTSS-XXX-2-45-48-PP
TLK-45xLL	+	EDS-SRB-48xLL	=	TLKSRB-45	EPT-45xLL-PP	+	ERSS-48xLL-2-T25-B = EPTSS-XXX-2B-45-48-PP
TLK-45xLL	+	EDS-H-50xLL	=	TLKH-45	EPT-45xLL-PP	+	ERWS-50xLL-0-PH2-15C = EPTWS-XXX-0-45-50-PP
TLK-45xLL	+	GBS-60xLL	=	TLKGBS-45	EPT-45xLL-PP	+	ERAS-60xLL-0-T25-15C = EPTAS-XXX-0-45-60-PP
TLK-45xLL	+	GBSA2-60xLL	=	TLKGSA2-45	EPT-45xLL-PP	+	ERAS-60xLL-0-T25-S = EPTAS-XXX-0S-45-60-PP
TLK-45xLL	+	EFHD-63xLL	=	TLKEFHD-45	EPT-45xLL-PP	+	ERCS-63xLL-0-T25-15C = EPTCS-XXX-0-45-63-PP
TLK-45xLL	+	EFR-65xLL	=	TLKEFR-45	EPT-45xLL-PP	+	ERCS-65xLL-0-T25-15C = EPTCS-XXX-0HL-45-65-PP
TLK-45xLL	+	EAS-65xLL	=	TLKEAS-45	EPT-45xLL-PP	+	ERCS-65xLL-0-T25-15C-EAS = EPTCS-XXX-YYY-EAS-0-45-65-PP
TLK-75xLL	+	EDS-S-48xLL	=	TLKS-75	EPT-75xLL-PP	+	ERSS-48xLL-0-PH2-15C = EPTSS-XXX-0-75-48-PP
TLK-75xLL	+	EDS-B-48xLL	=	TLKB-75	EPT-75xLL-PP	+	ERSS-48xLL-2-T25-15C = EPTSS-XXX-2-75-48-PP
TLK-75xLL	+	EDS-SRB-48xLL	=	TLKSRB-75	EPT-75xLL-PP	+	ERSS-48xLL-2-T25-B = EPTSS-XXX-2B-75-48-PP
TLK-75xLL	+	EDS-H-50xLL	=	TLKH-75	EPT-75xLL-PP	+	ERWS-50xLL-0-PH2-15C = EPTWS-XXX-0-75-50-PP
TLK-75xLL	+	GBS-60xLL	=	TLKGBS-75	EPT-75xLL-PP	+	ERAS-60xLL-0-T25-15C = EPTAS-XXX-0-75-60-PP
TLK-75xLL	+	GBSA2-60xLL	=	TLKGSA2-75	EPT-75xLL-PP	+	ERAS-60xLL-0-T25-S = EPTAS-XXX-0S-75-60-PP
TLK-75xLL	+	EFHD-63xLL	=	TLKEFHD-75	EPT-75xLL-PP	+	ERCS-63xLL-0-T25-15C = EPTCS-XXX-0-75-63-PP
TLK-75xLL	+	EFR-65xLL	=	TLKEFR-75	EPT-75xLL-PP	+	ERCS-65xLL-0-T25-15C = EPTCS-XXX-0HL-75-65-PP
TLK-75xLL	+	EAS-65xLL	=	TLKEAS-75	EPT-75xLL-PP	+	ERCS-65xLL-0-T25-15C-EAS = EPTCS-XXX-YYY-EAS-0-75-65-PP
DVP-EF-7005N	+	EDS-H-50xLL	=	CP-PP-H	EPM-70N-5.1-0.5	+	ERWS-50xLL-0-PH2-15C = EPMWS-0-70N-50xLL
DVP-EF-4010N3	+	EDS-H-50xLL	=	DAMP-H	EPM-N3-40N-5.85-1.0	+	ERWS-50xLL-0-PH2-15C = EPMWS-0-N3-40N-50xLL
-	-	-	-	-	EPM-51N-5.6-0.84	+	ERSS-67xLL-2-PH3-15C = EPMSS-2-51N-67xLL

XXX - clamping range for pre-assembled combination

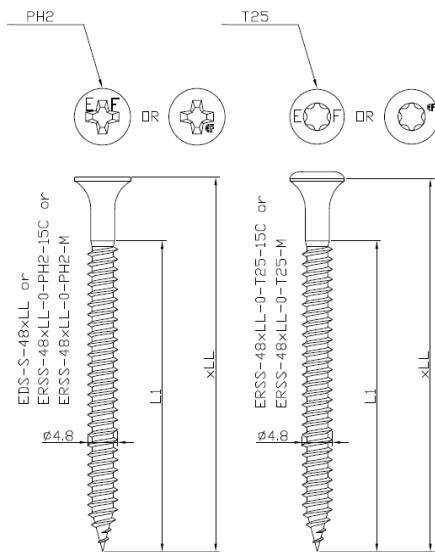
XXX-YYY - min/max clamping range for pre-assembled combination with EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS) screw

Pre-assembled combinations, that are additionally supplied as collated products have extended product key with "C" letter at the end. Example: EPTSS-XXX-0-45-48-PA-C.

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Pre-assembled combinations

Annex Info.3



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
Steel S320GD*						
t [mm]	0,60	0,63	0,70	0,75	0,80	0,88
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)	0,94	0,94	1,44	1,53	1,55	1,55
ERSS-48xLL-0-T25-15C (ERSS-48xLL-0-T25-M)	0,94	0,94	1,44	1,53	1,55	1,55

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
OSB/3			Chipboard	Plywood	Timber C24	
t [mm]	18	21	25	19	18	21
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)	1,04	1,20	1,22	1,12	0,94	1,02
ERSS-48xLL-0-T25-15C (ERSS-48xLL-0-T25-M)	1,04	1,20	1,22	1,12	0,94	1,02
						1,99

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)	DVP-EFB-51NS (EPM-B-51N-5.4-0.84)	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	DVP-EF-7005N (EPM-70N-5.1-0.5)	DVP-EF-7007H (EPM-70H-6.0-0.7)	-	-	EPM-IT-80-6.8-0.8
	-	DVP-EF-7007N (EPM-70N-6.0-0.7)	-	-	EPM-IE-80-6.8-0.8
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)	2,36	2,91	3,87	2,93	2,92
ERSS-48xLL-0-T25-15C (ERSS-48xLL-0-T25-M)	2,36	2,91	3,87	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

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EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)
	TRP-45xLL (EPT-45xLL-PA)	HTLK-45xLL (EPT-O-45xLL-PP)	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)
	BTRP-45xLL (EPT-B-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	DVP-EF-5010DFR (EPM-50D-4.85-1.0)
	TWP-8040xLL (EPT-8040xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	DVP-EF-7070D (EPM-7070D-4.85-1.0)
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	DVP-EF-7010DFR (EPM-70D-4.85-1.0)
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	DVP-EF-8240D (EPM-8240D-4.85-1.0)
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EFZK-8240D (EPM-ZK-8240D-4.85-1.0)
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	DVP-EFF-8040D (EPM-8040D-4.85-1.0)
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)	2,67	1,77	5,18
ERSS-48xLL-0-T25-15C (ERSS-48xLL-0-T25-M)	2,67	1,77	5,18

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)				
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)	5,05	4,43	3,89	2,96
ERSS-48xLL-0-T25-15C (ERSS-48xLL-0-T25-M)	5,05	4,43	3,89	2,96

* "Pull-over" according to CEN/TS 17659 : 2021

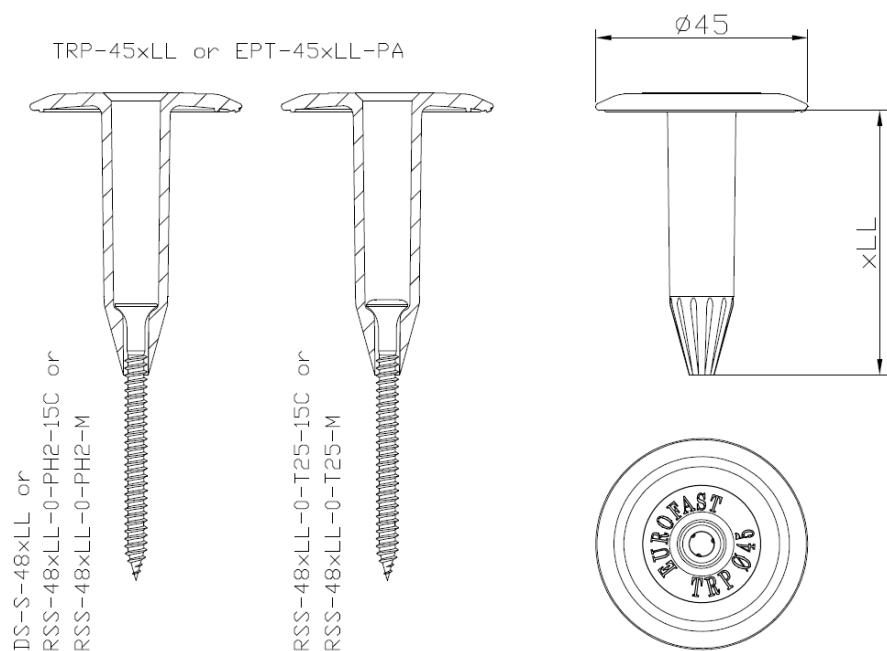
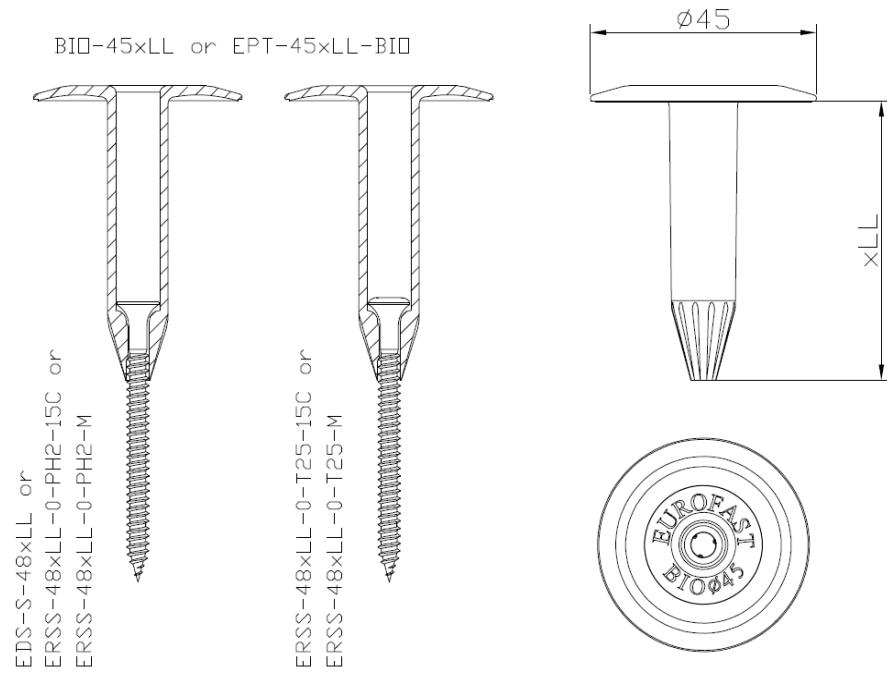
Eurofast Flat Roof Fasteners		Annex A.2
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)		

Screw:			
EDS-S-48xLL	(ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)		
ERSS-48xLL-0-T25-15C	(ERSS-48xLL-0-T25-M)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240H	(EPM-8240H-7.0-1.0)
DVP-EF-5010DFR	(EPM-50D-4.85-1.0)	DVP-EF-8240XH	(EPM-8240XH-4.85-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-EFB-51NS	(EPM-B-51N-5.4-0.84)
DVP-EF-7070D	(EPM-7070D-4.85-1.0)	DVP-EF-51N	(EPM-B-51N-6.7-0.84)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	DVP-EFB-8240D	(EPM-B-8240D-4.85-1.0)
DVP-EF-7010DFR	(EPM-70D-4.85-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-EF-7005D	(EPM-70D-5.0-0.5)	DVP-EFZK-8240D	(EPM-ZK-8240D-4.85-1.0)
DVP-EF-7007D	(EPM-70D-6.0-0.7)	DVP-EFF-8040D	(EPM-8040D-4.85-1.0)
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7005N	(EPM-70N-5.1-0.5)	EPM-IE-80-6.8-0.8	
DVP-EF-7007N	(EPM-70N-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8240D	(EPM-8240D-4.85-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
BTRP-45xLL	(EPT-B-45xLL-PA)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TWP-8040xLL	(EPT-8040xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Steel S280		EN 10346	
Steel S320		EN 10346	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class $\geq C24$	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
Max. drilling capacity in steel substrate:	0,88 mm		
HUKAD type:	Bugle HUKAD / Raised Bugle HUKAD		
Recess:	PH2 / TX25		
Fixing in steel substrate:	Minimum 20 mm of the screw fixed through the steel sheet		
Fixing in wooden and wood-based substrate:	Full thread through the substrate or minimum embedment depth		
Installation force of installation tool in:			
- steel substrate	15 kg		
- wooden and wood-based substrate	30 kg		
Installation tool speed:	2000 - 2500 rpm		

Eurofast Flat Roof Fasteners

Annex A.3

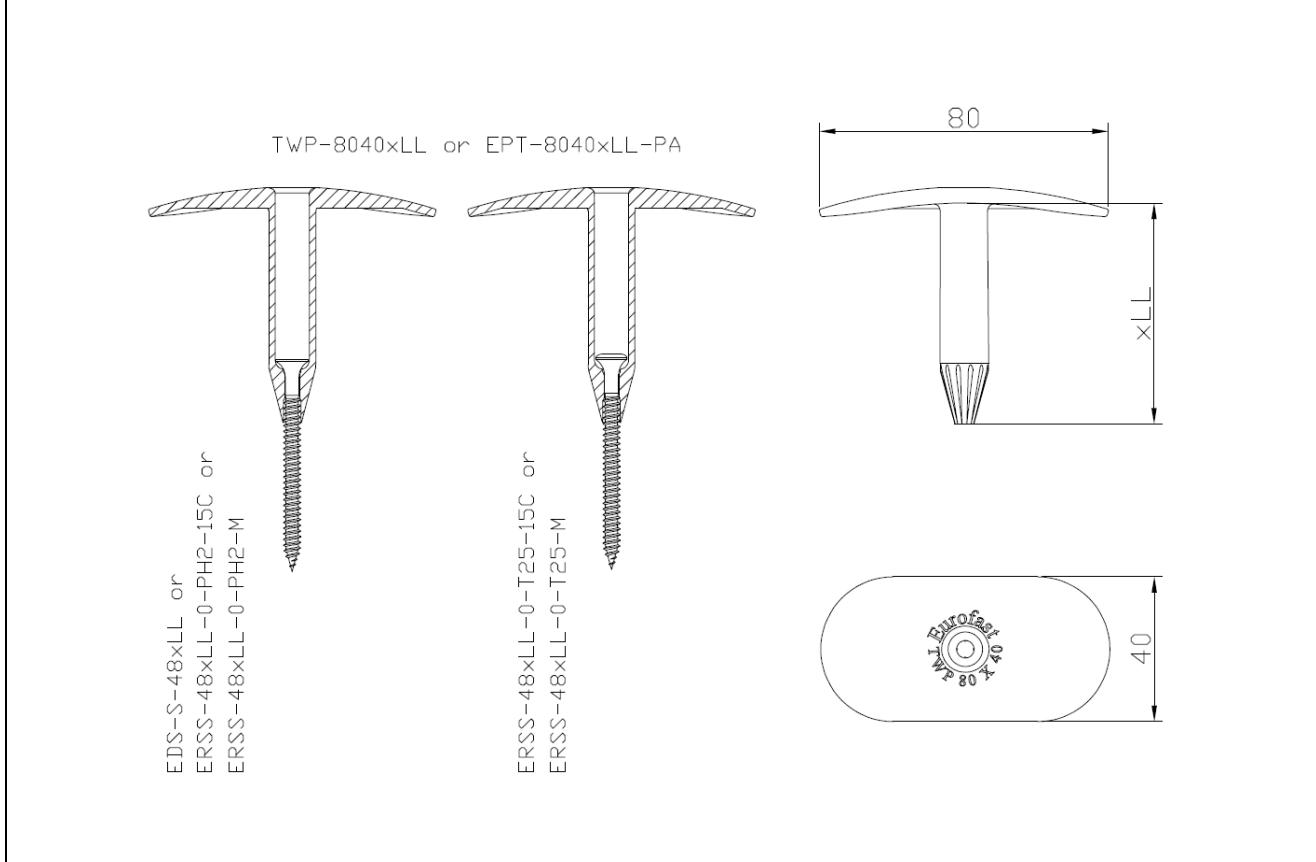
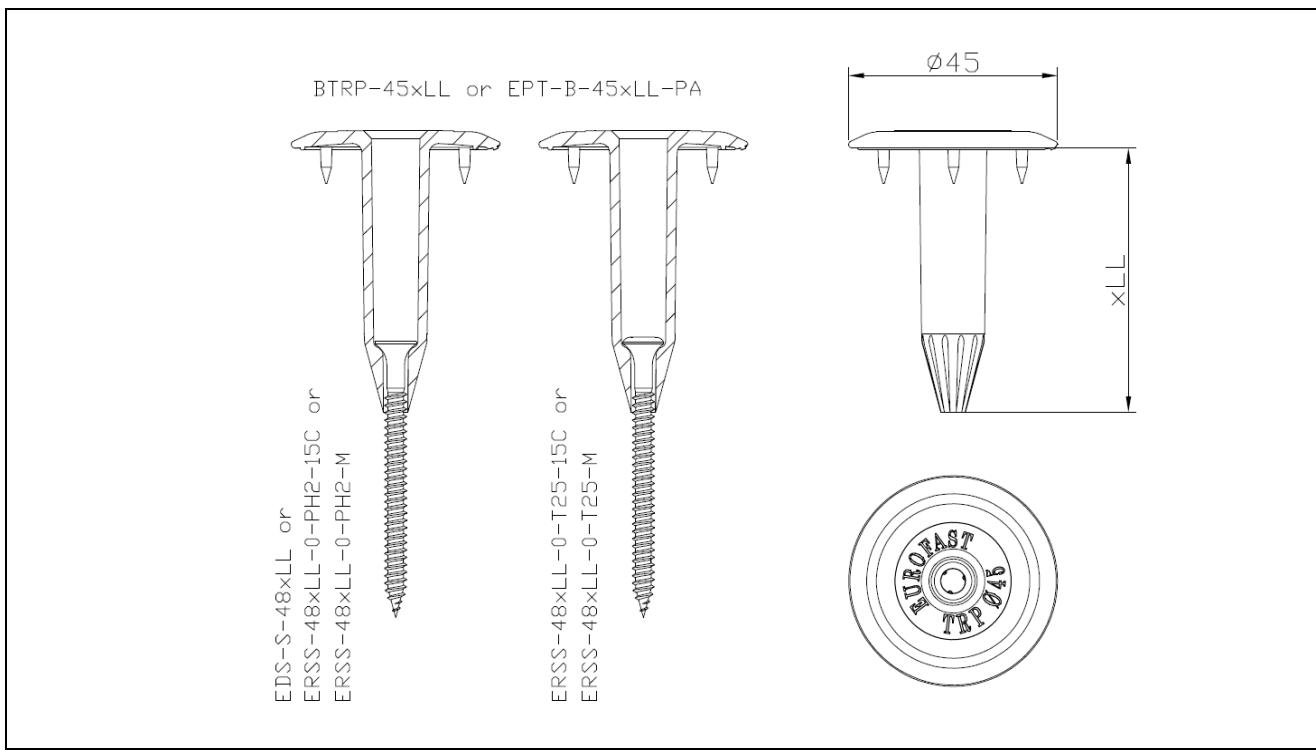
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
 (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)



Eurofast Flat Roof Fasteners

**EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)**

Annex A.4

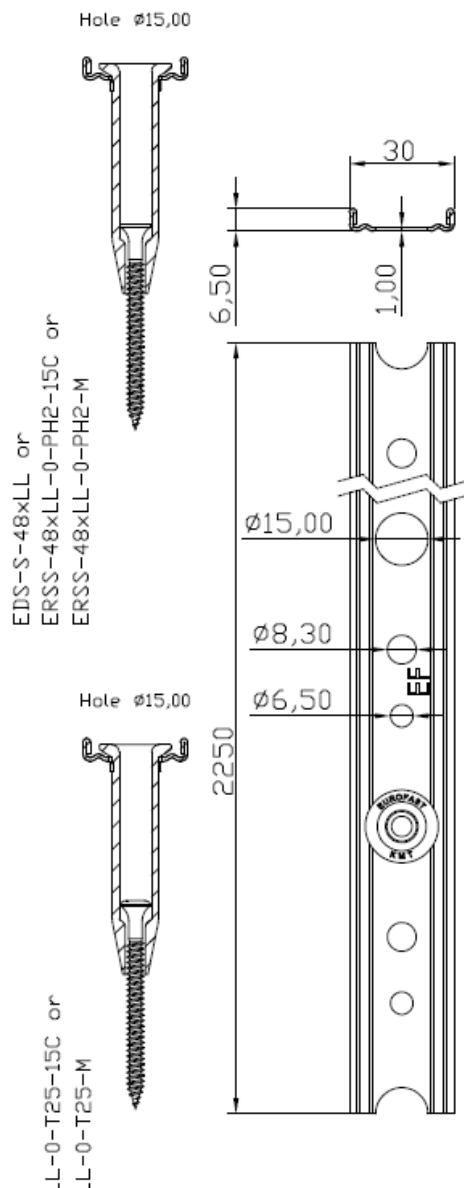


Eurofast Flat Roof Fasteners

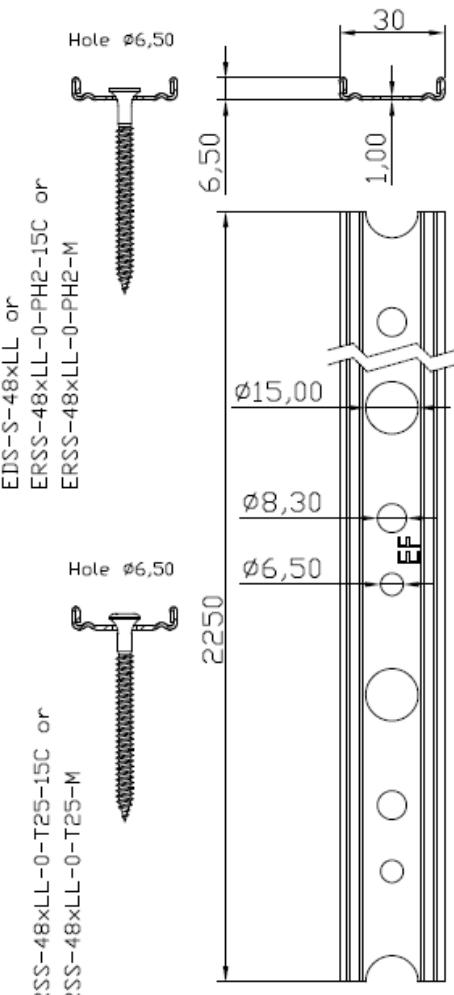
**EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)**

Annex A.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

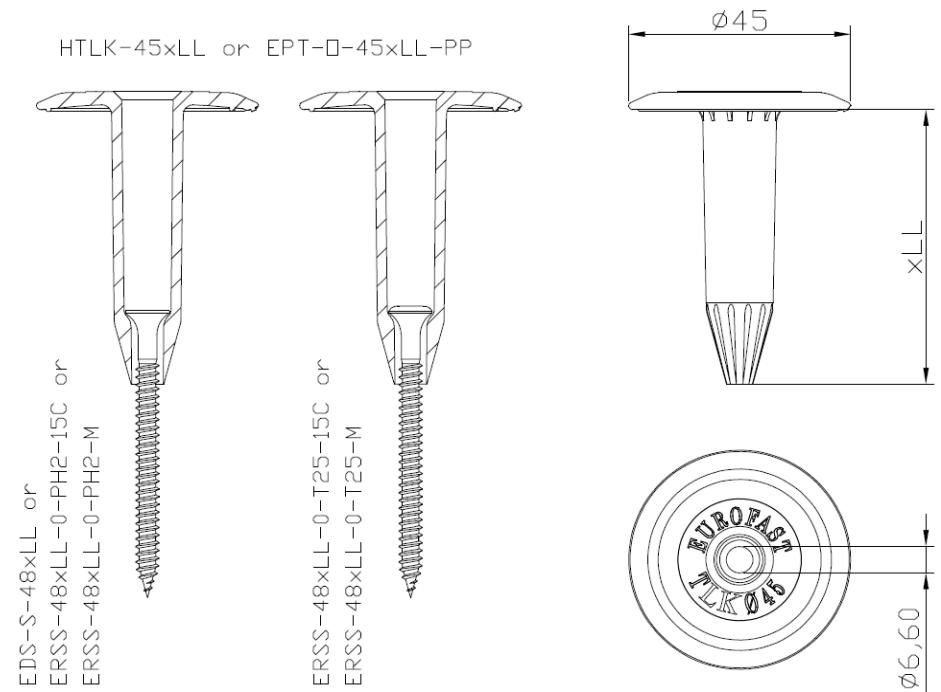
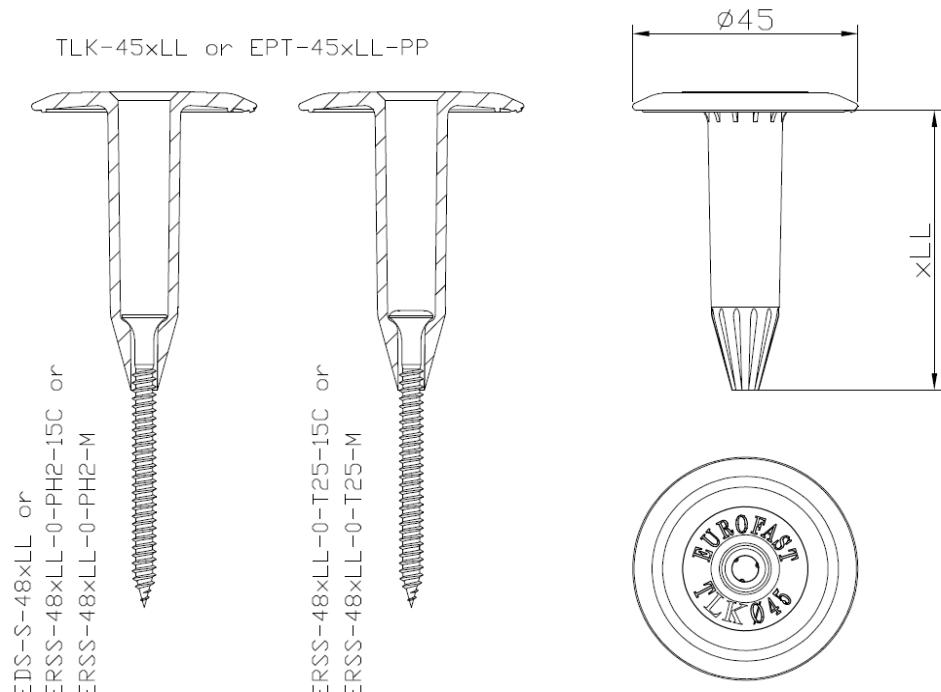


Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.6

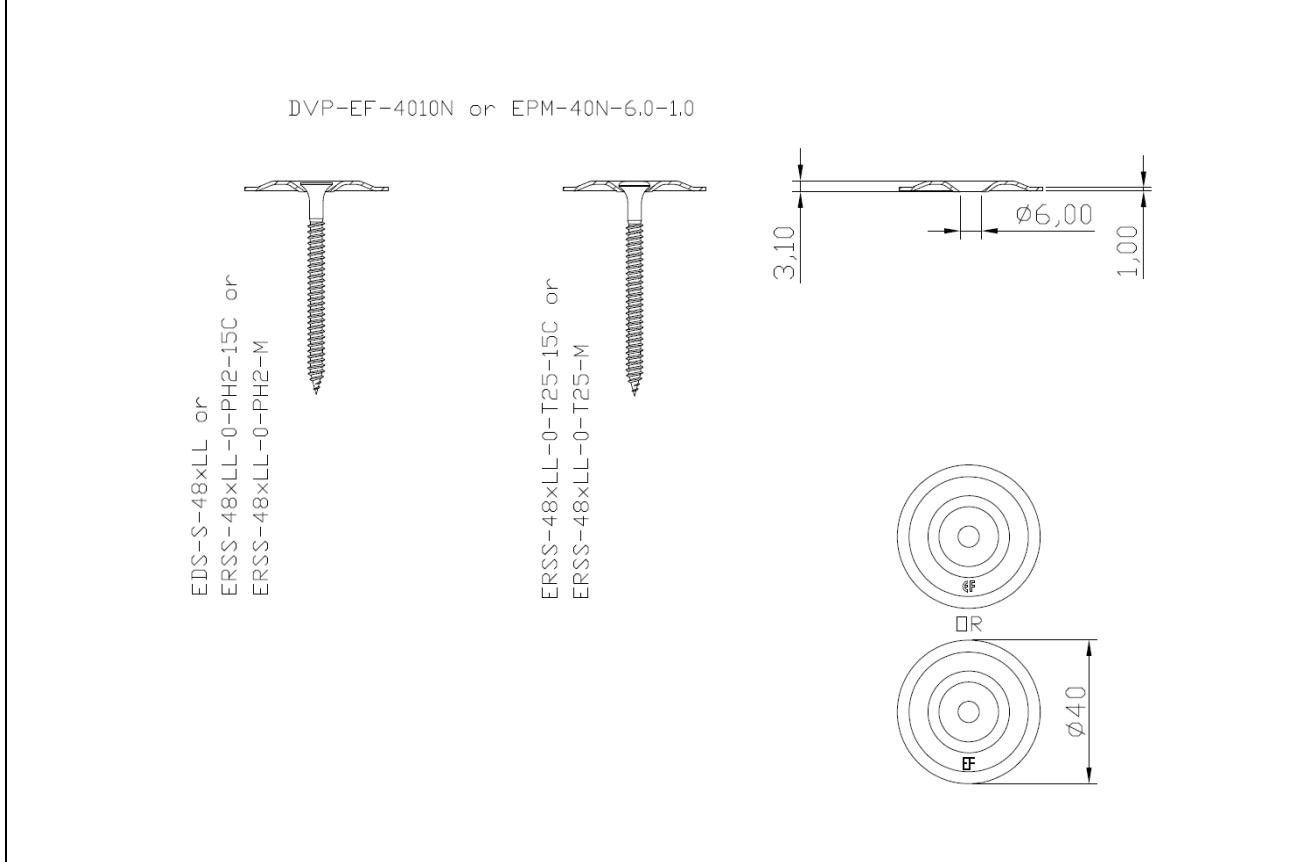
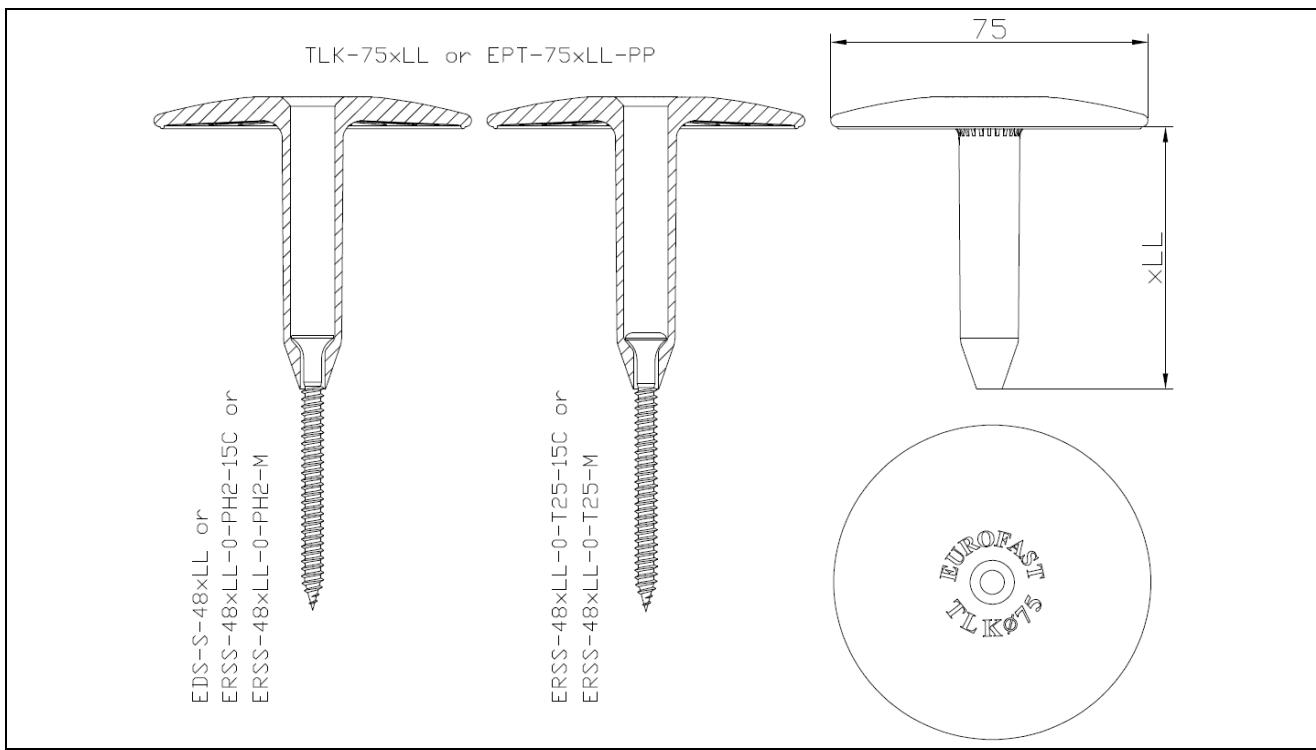
<p>EIDF-BAR F or ETM-2250-30-4.8-8.5-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> <p>ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M</p> <p>Hole Ø4,80</p> <p>6,00</p> <p>30</p> <p>1,00</p> <p>Ø8,50</p> <p>Ø4,80</p> <p>2250</p> <p>EF</p>	<p>EIDF-BAR FB or ETM-B-2250-30-4.8-8.5-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> <p>ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M</p> <p>Hole Ø4,80</p> <p>6,00</p> <p>30</p> <p>1,00</p> <p>Ø8,50</p> <p>Ø4,80</p> <p>2250</p>
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)</p>	<p>Annex A.7</p>



Eurofast Flat Roof Fasteners

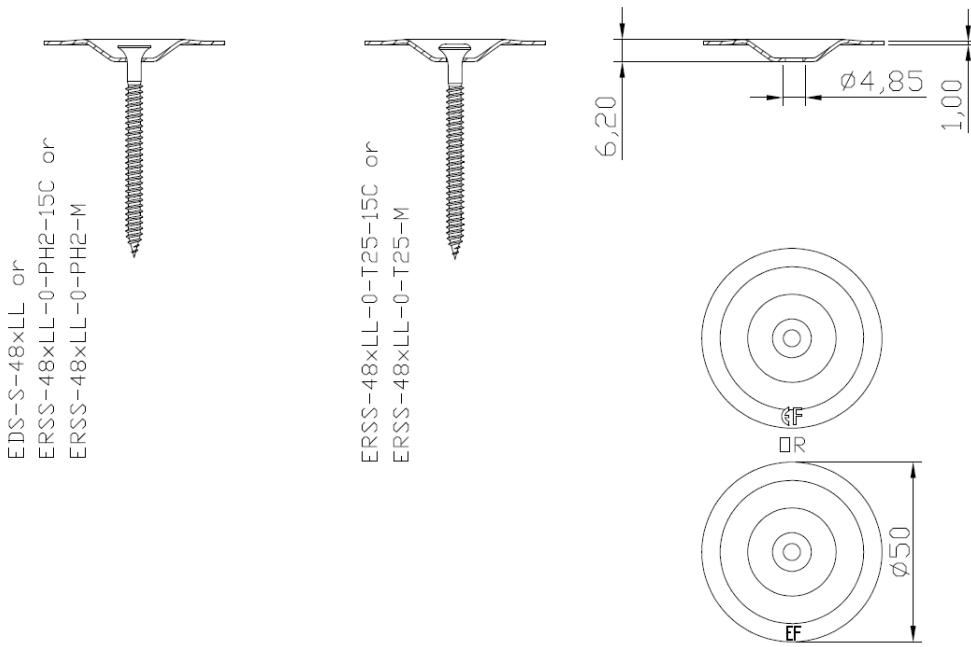
Annex A.8

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

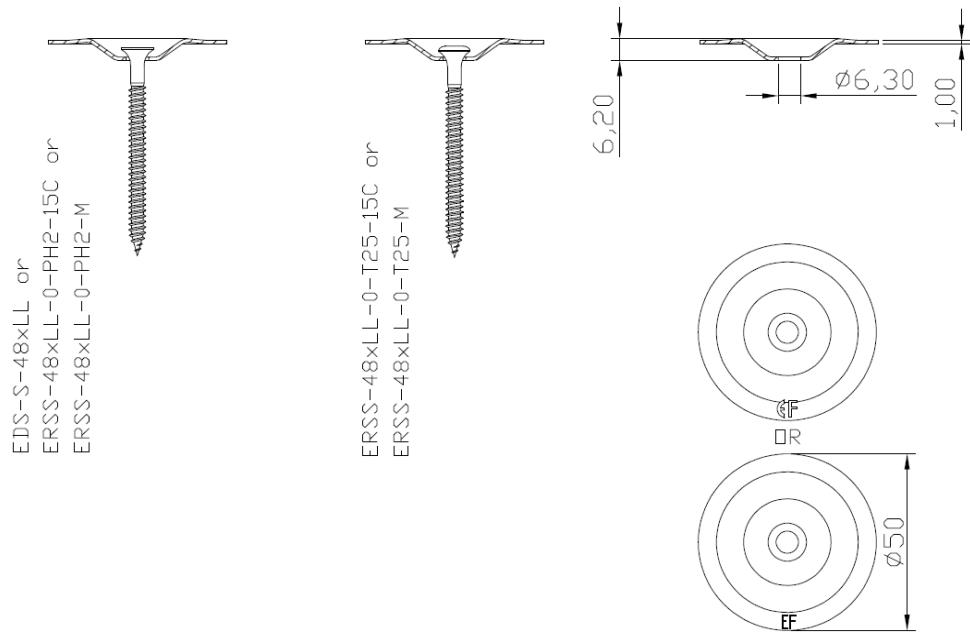


Eurofast Flat Roof Fasteners	Annex A.9
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)	

DVP-EF-5010DFR or EPM-50D-4.85-1.0



DVP-EF-5010D or EPM-50D-6.3-1.0

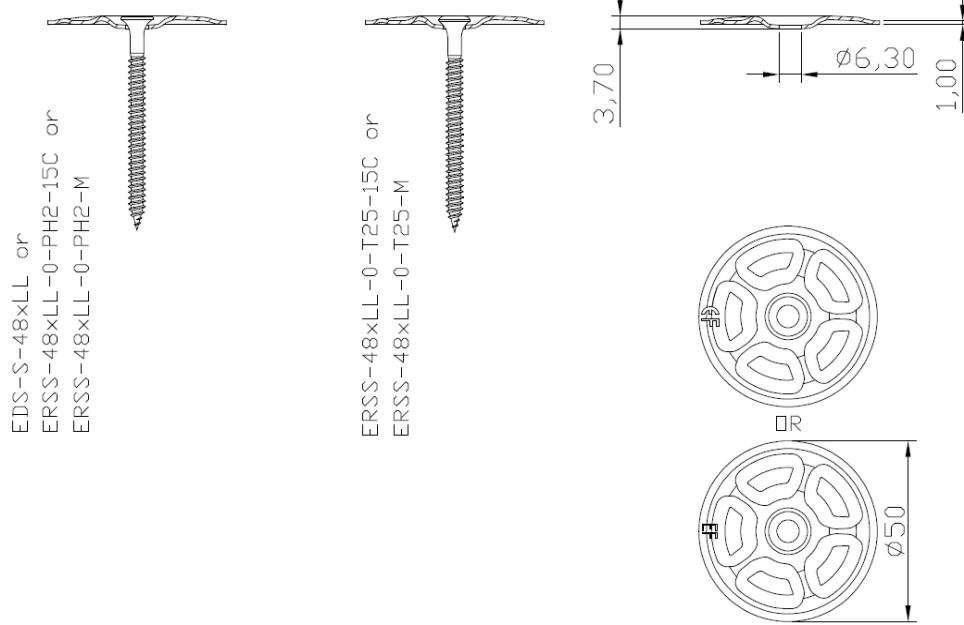


Eurofast Flat Roof Fasteners

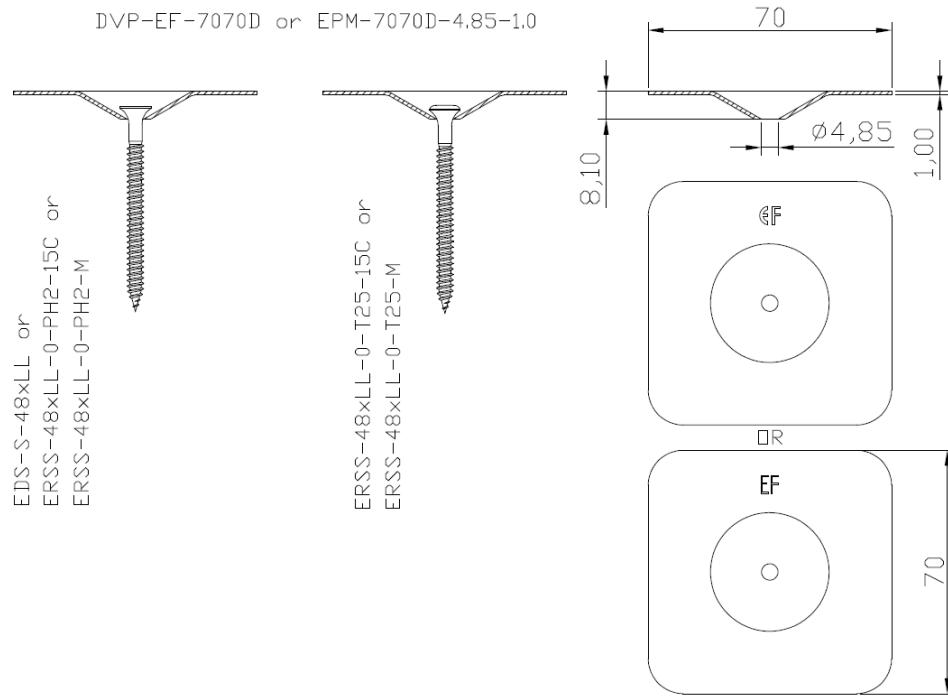
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.10

DVP-EF-5010N or EPM-50N-6.3-1.0



DVP-EF-7070D or EPM-7070D-4.85-1.0

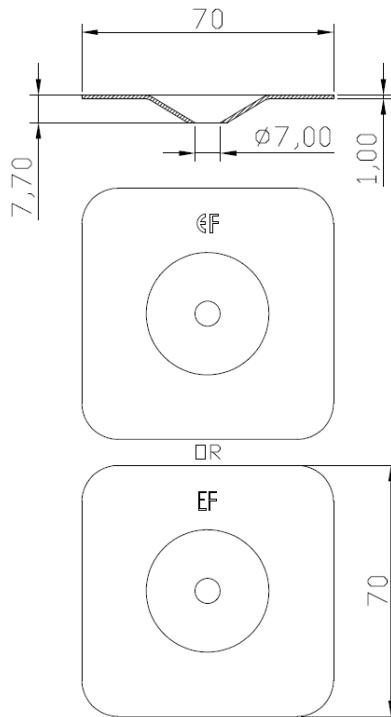
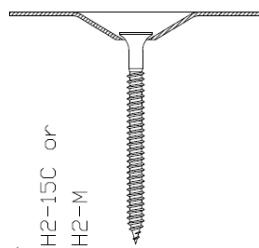


Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.11

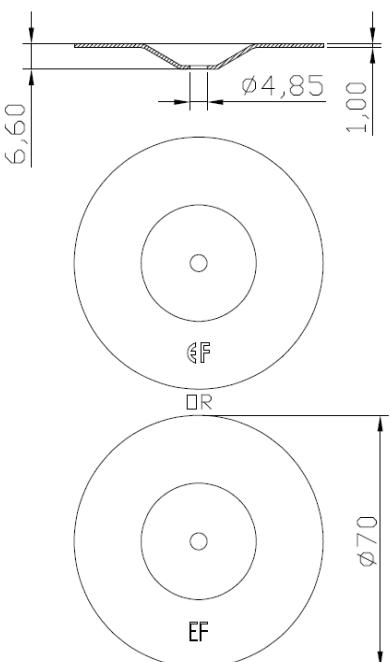
DVP-DF-7070D or EPM-7070D-7.0-1.0



DVP-EF-7010DFR or EPM-70D-4.85-1.0

EDS-S-48xLL or
ERSS-48xLL-0-PH2-15C or
ERSS-48xLL-0-PH2-M

ERSS-48xLL-0-T25-15C or
ERSS-48xLL-0-T25-M

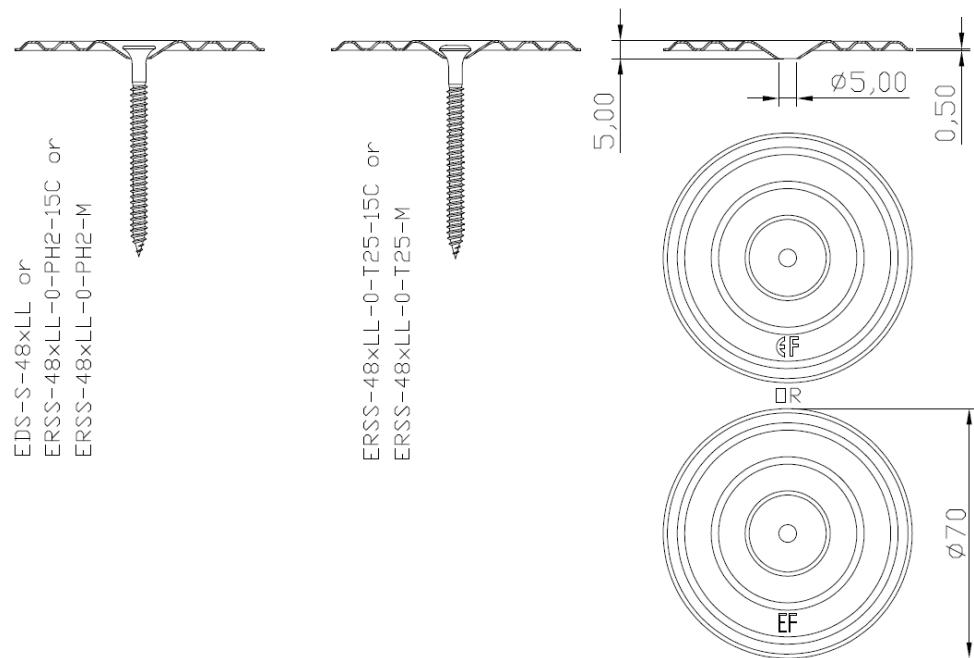


Eurofast Flat Roof Fasteners

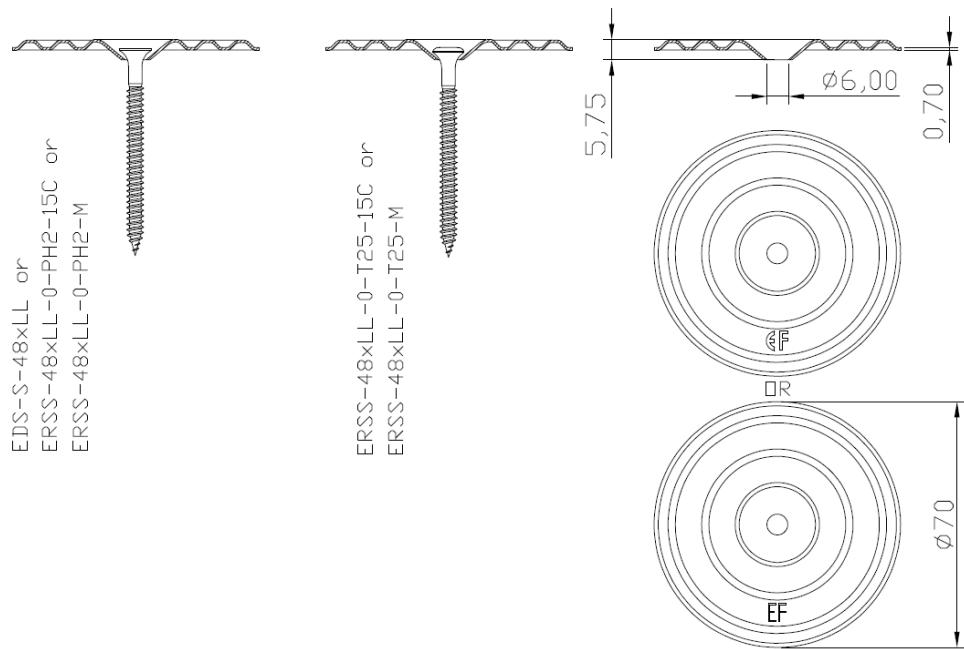
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.12

DVP-EF-7005D or EPM-70D-5.0-0.5



DVP-EF-7007D or EPM-70D-6.0-0.7

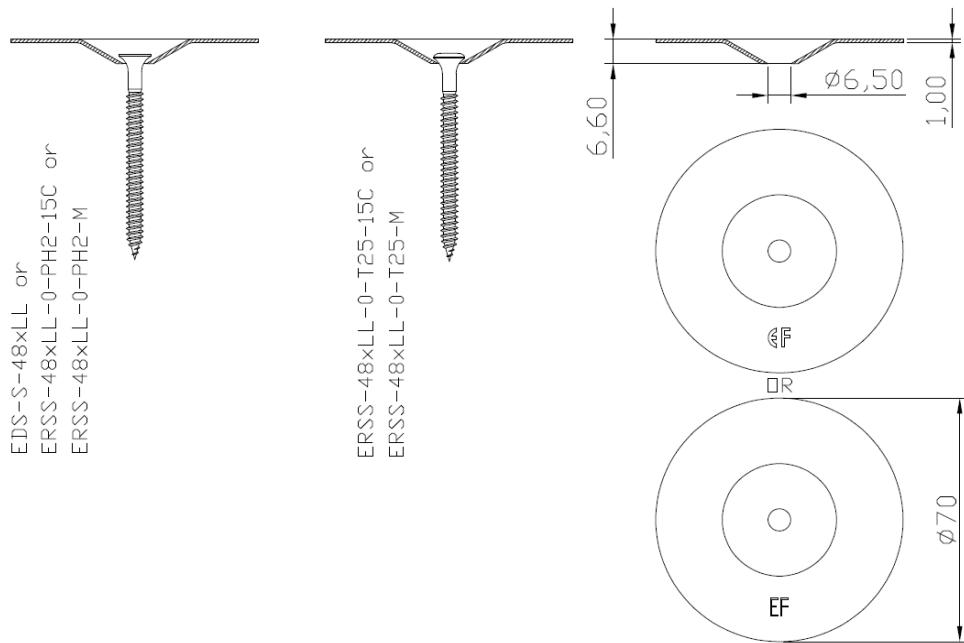


Eurofast Flat Roof Fasteners

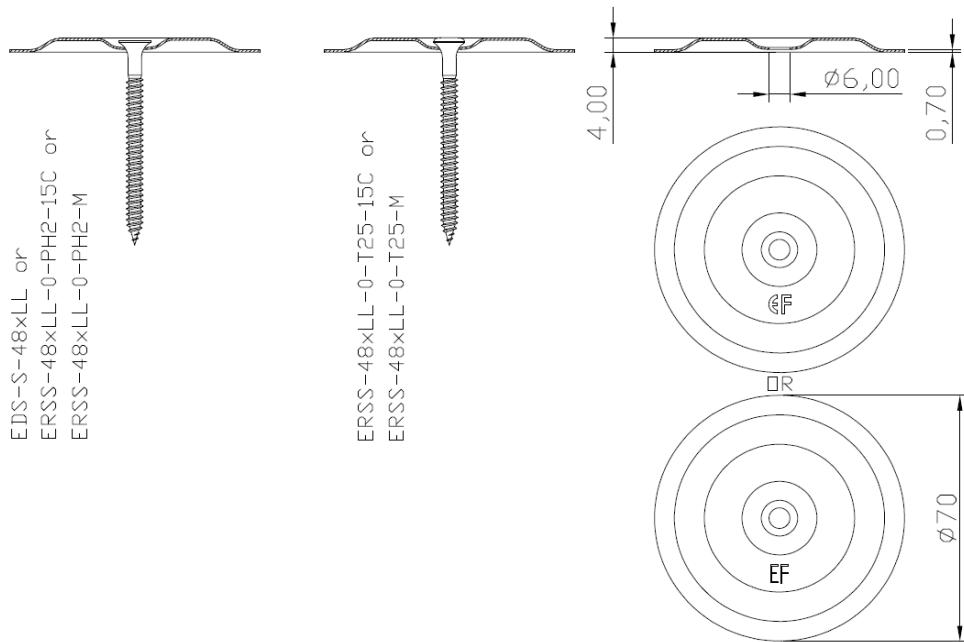
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.13

DVP-EF-7010D or EPM-70D-6.5-1.0



DVP-EF-7007H or EPM-70H-6.0-0.7

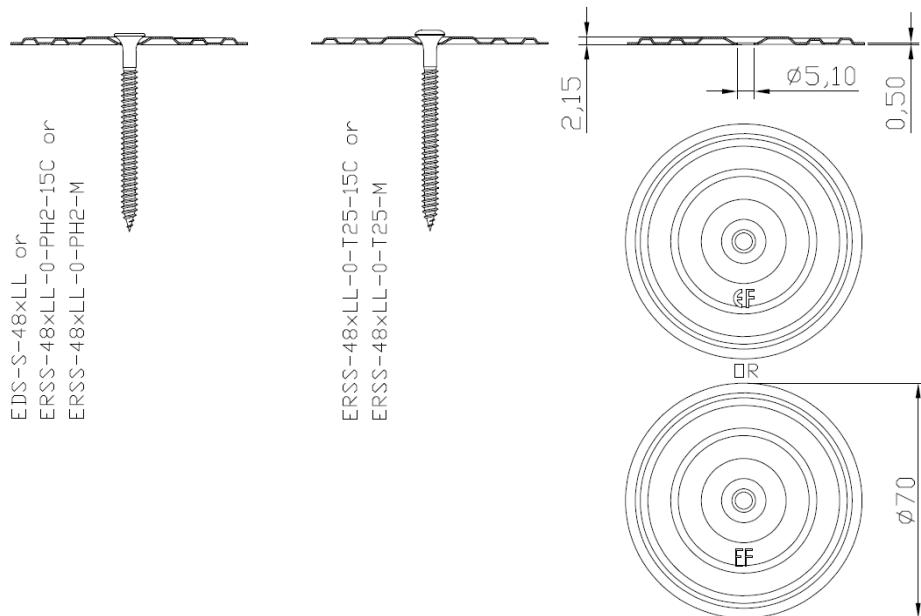


Eurofast Flat Roof Fasteners

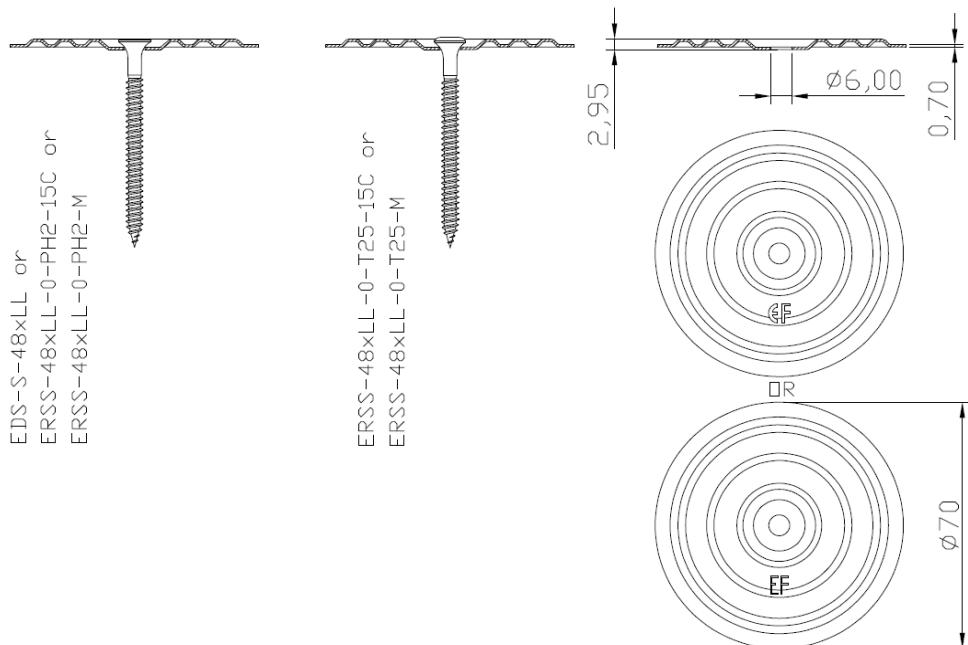
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.14

DVP-EF-7005N or EPM-70N-5.1-0.5



DVP-EF-7007N or EPM-70N-6.0-0.7

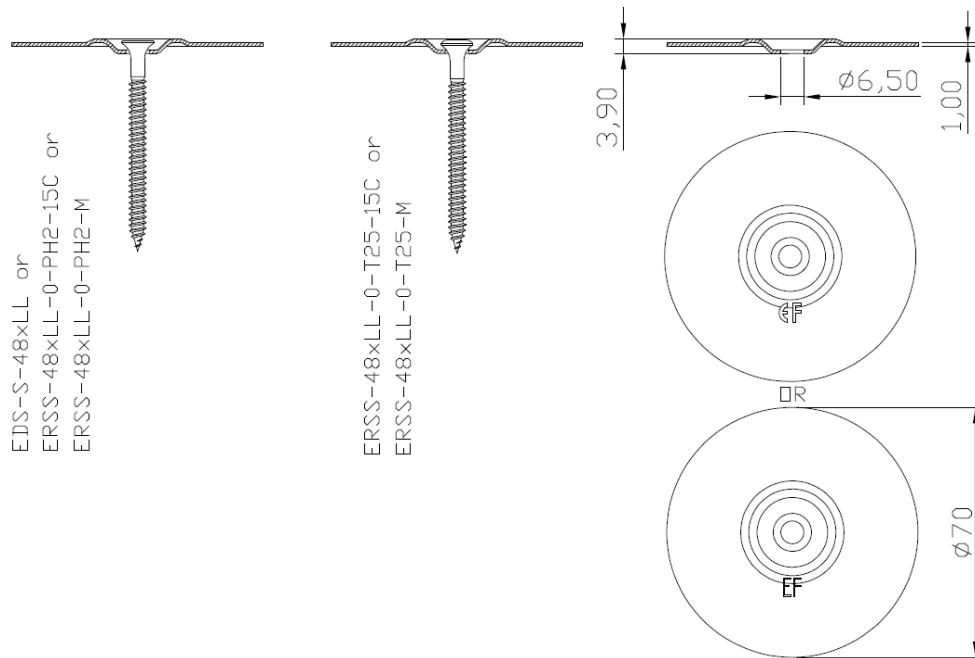


Eurofast Flat Roof Fasteners

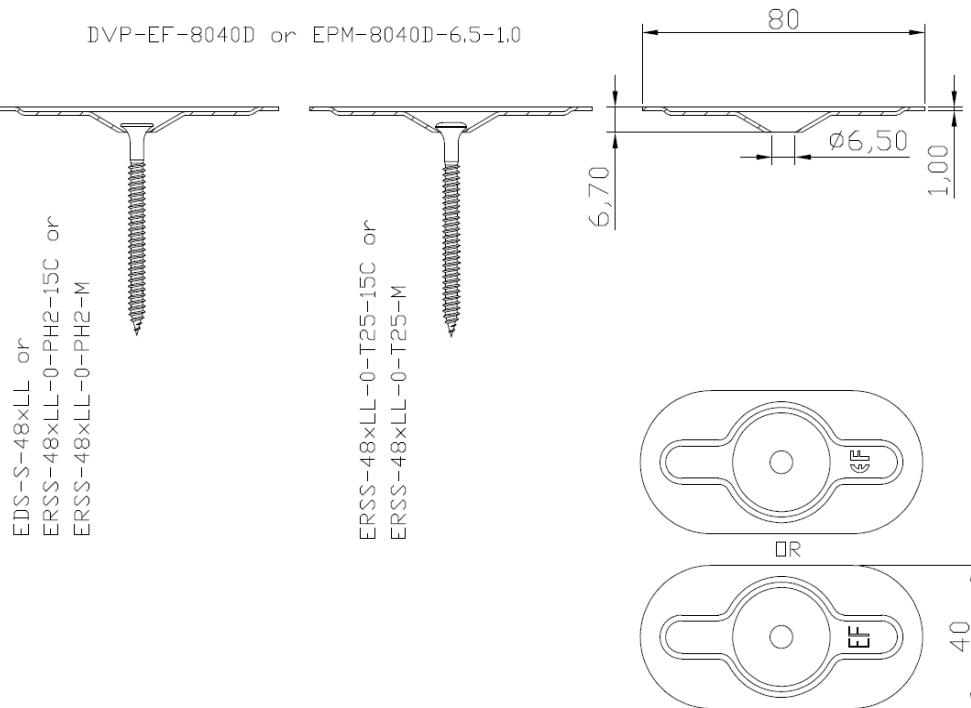
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.15

DVP-EF-7010N or EPM-70N-6.5-1.0



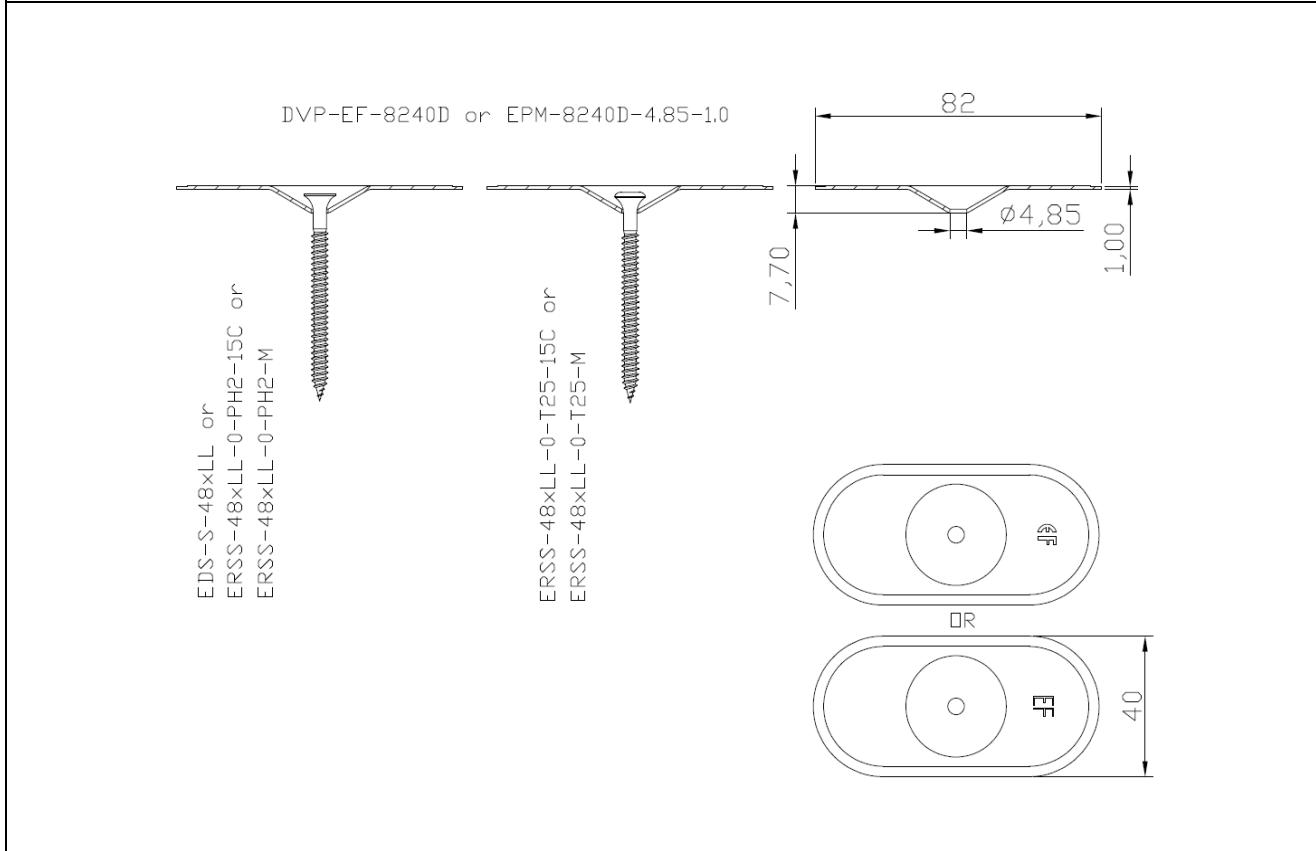
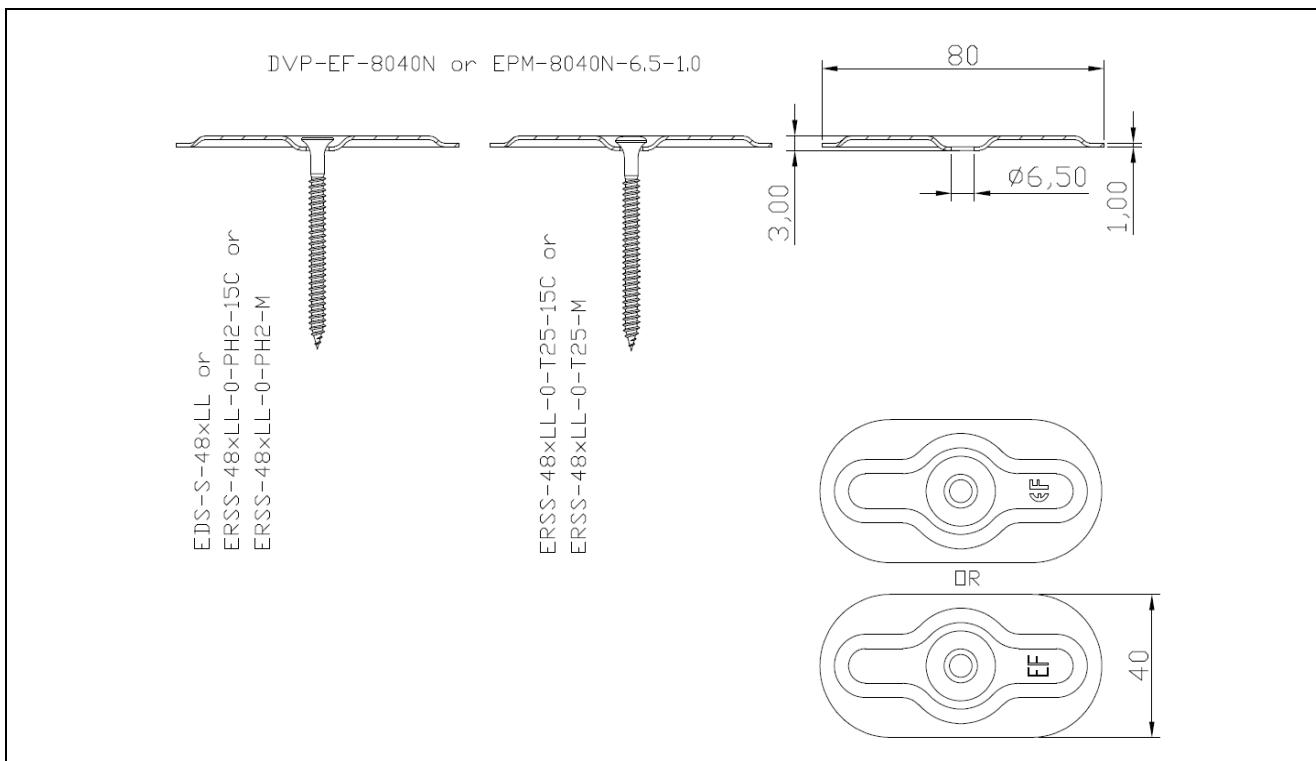
DVP-EF-8040D or EPM-8040D-6.5-1.0



Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

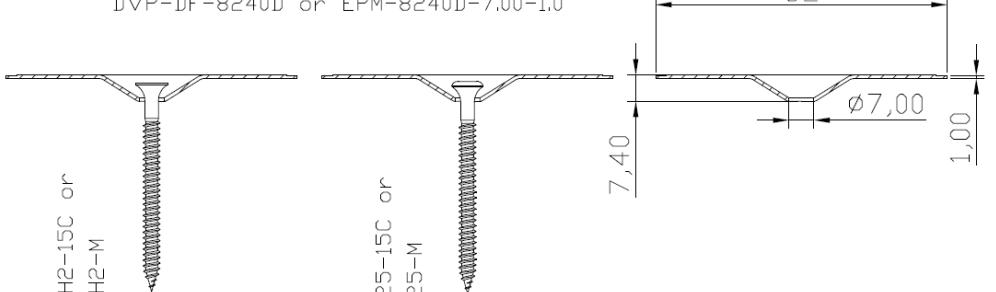
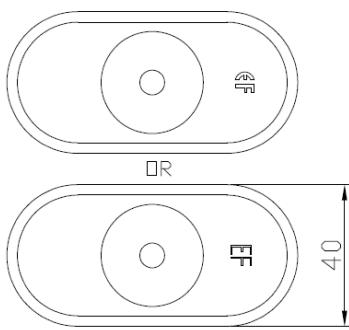
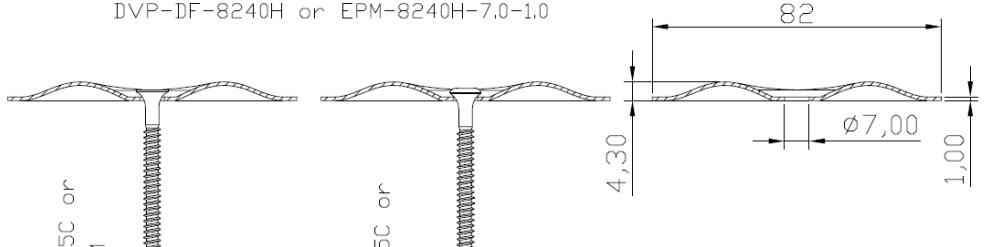
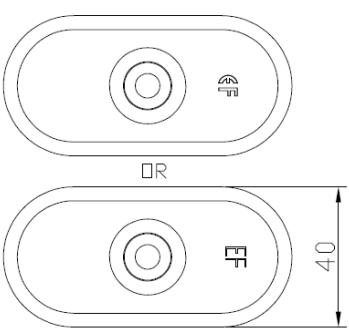
Annex A.16

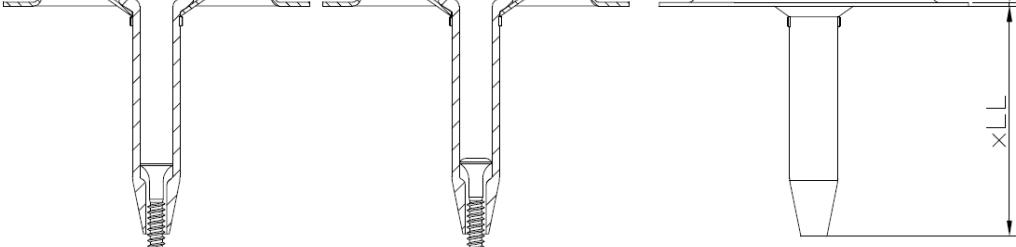
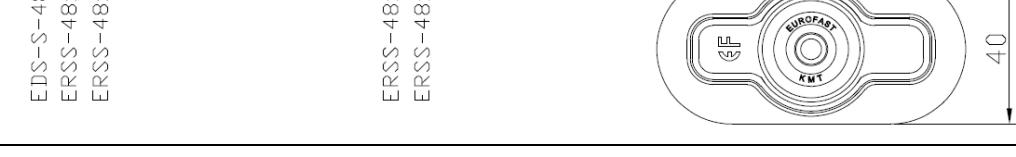
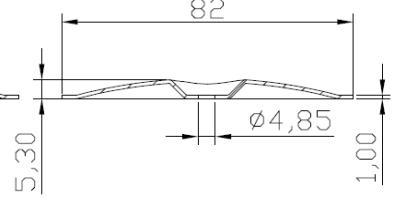
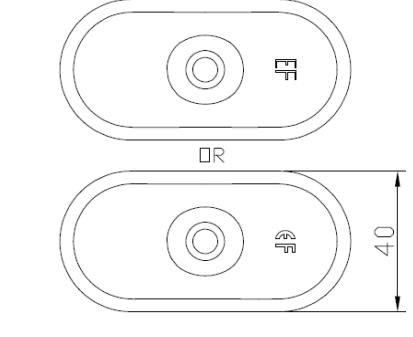


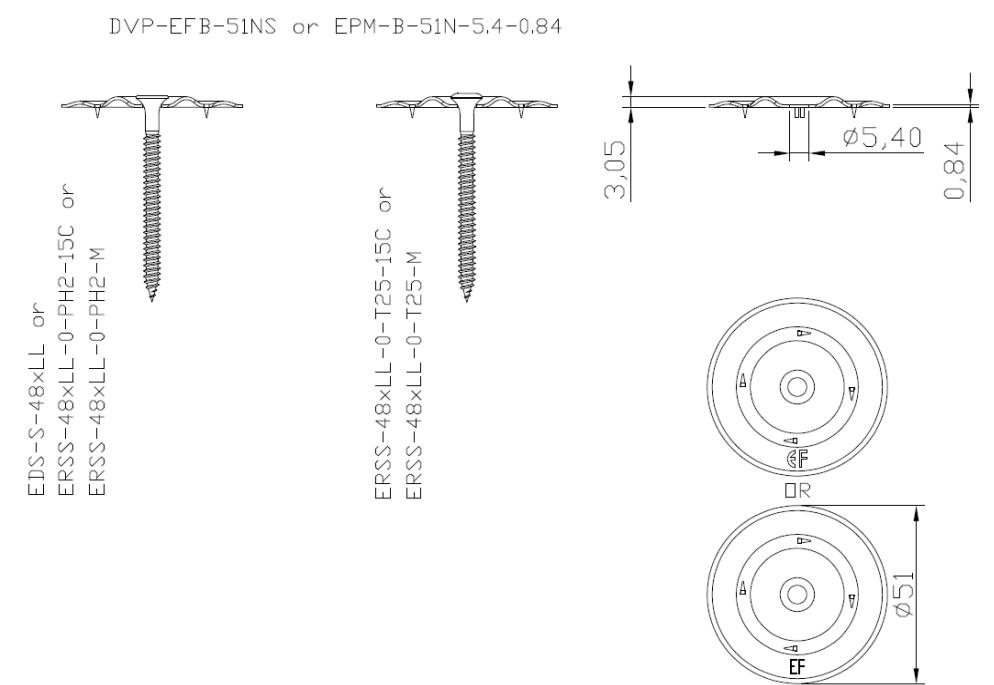
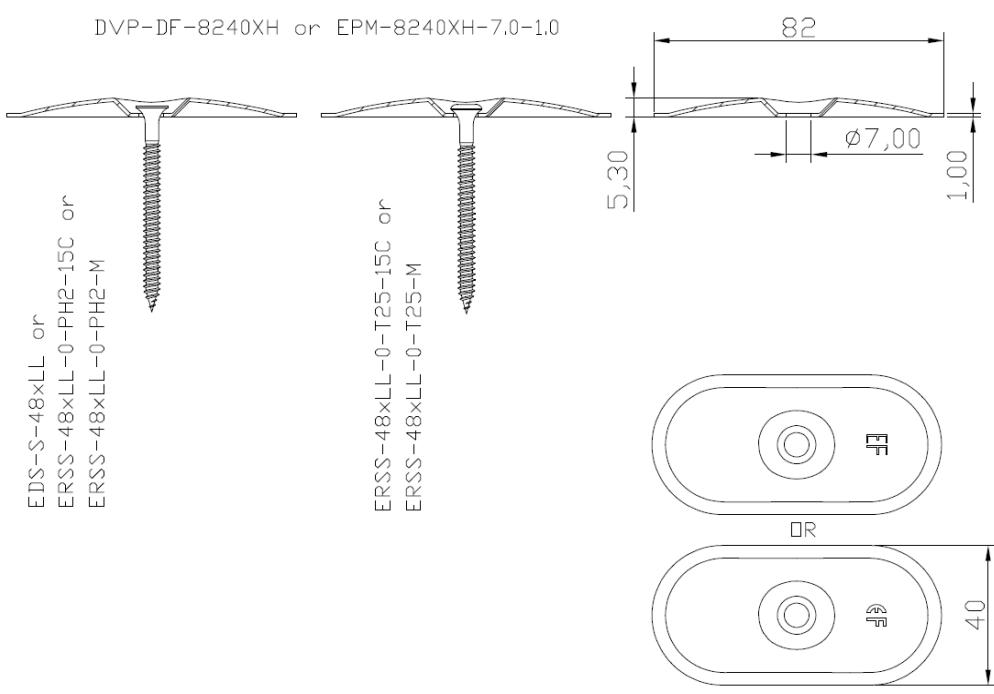
Eurofast Flat Roof Fasteners

**EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)**

Annex A.17

<p>DVP-DF-8240D or EPM-8240D-7.00-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> 	<p>ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M</p> 
<p>DVP-DF-8240H or EPM-8240H-7.0-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> 	<p>ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M</p> 
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)</p>	<p>Annex A.18</p>

<p>DVP-KMT-8240 + KMT-15xLL or EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA</p>  <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> 	 <p>DVP-EF-8240XH or EPM-8240XH-4.85-1.0</p> <p>ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M</p> 
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)</p>	<p>Annex A.19</p>

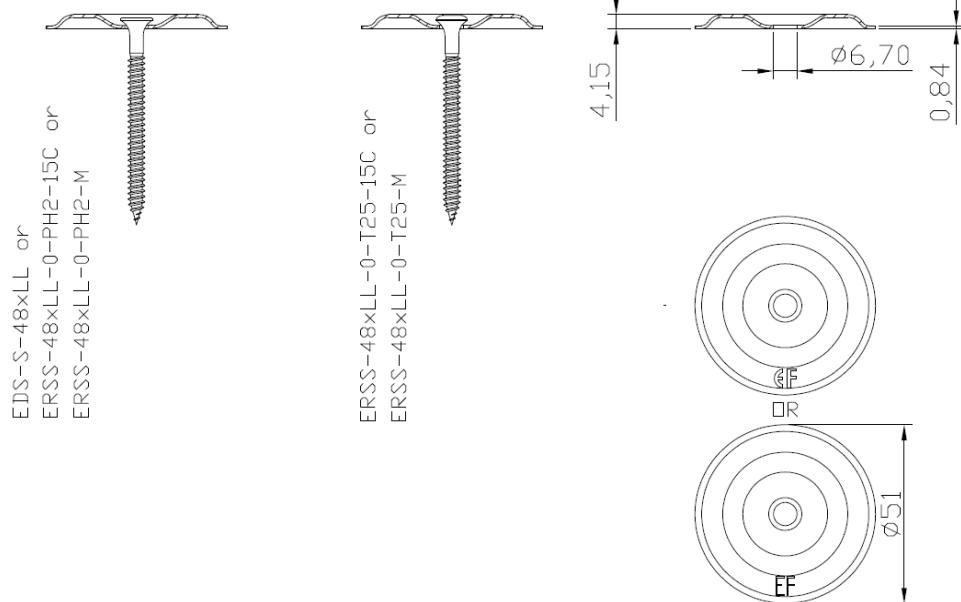


Eurofast Flat Roof Fasteners

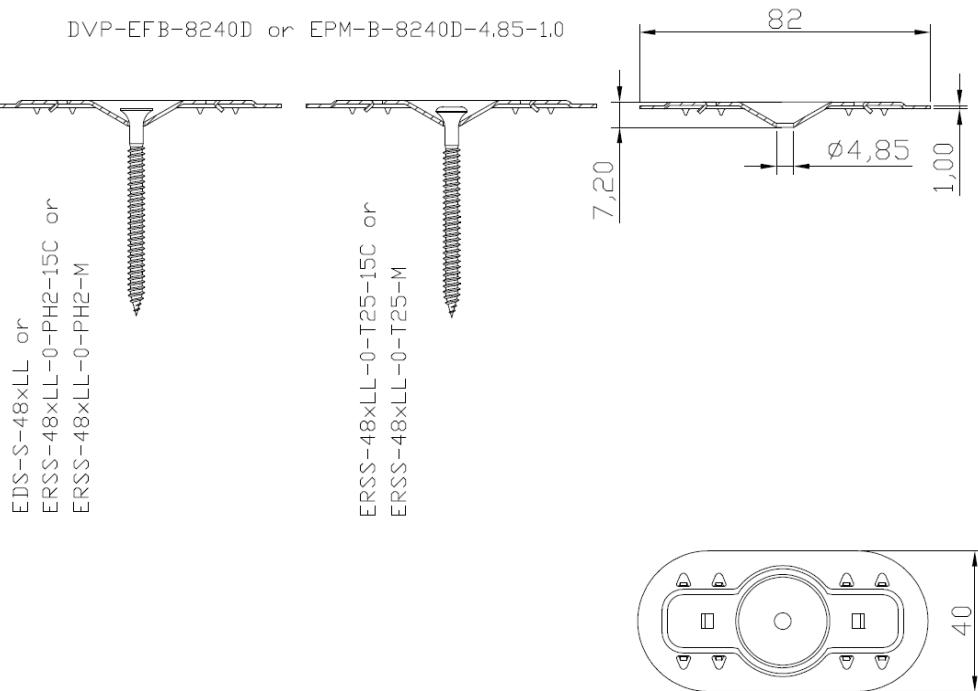
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.20

DVP-EF-51N or EPM-51N-6.7-0.84



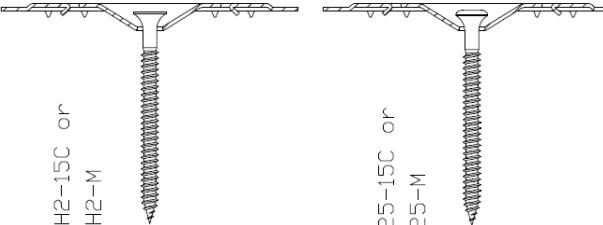
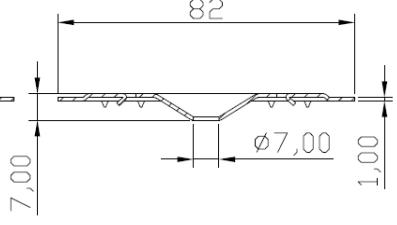
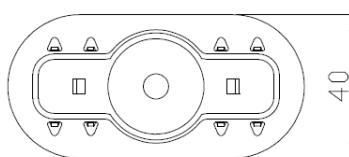
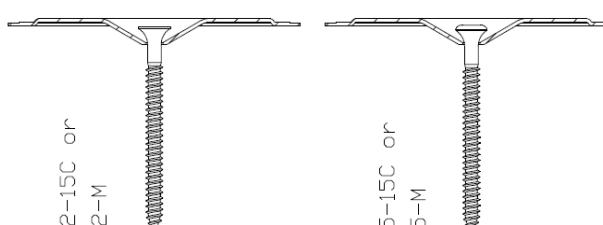
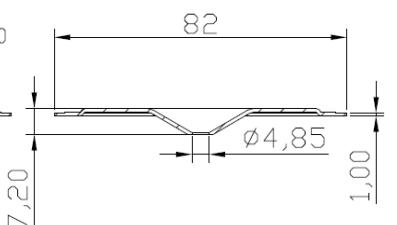
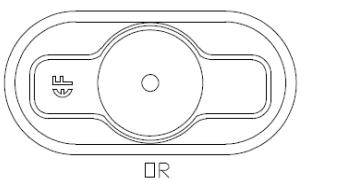
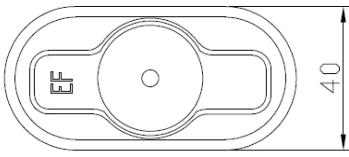
DVP-EFB-8240D or EPM-B-8240D-4.85-1.0

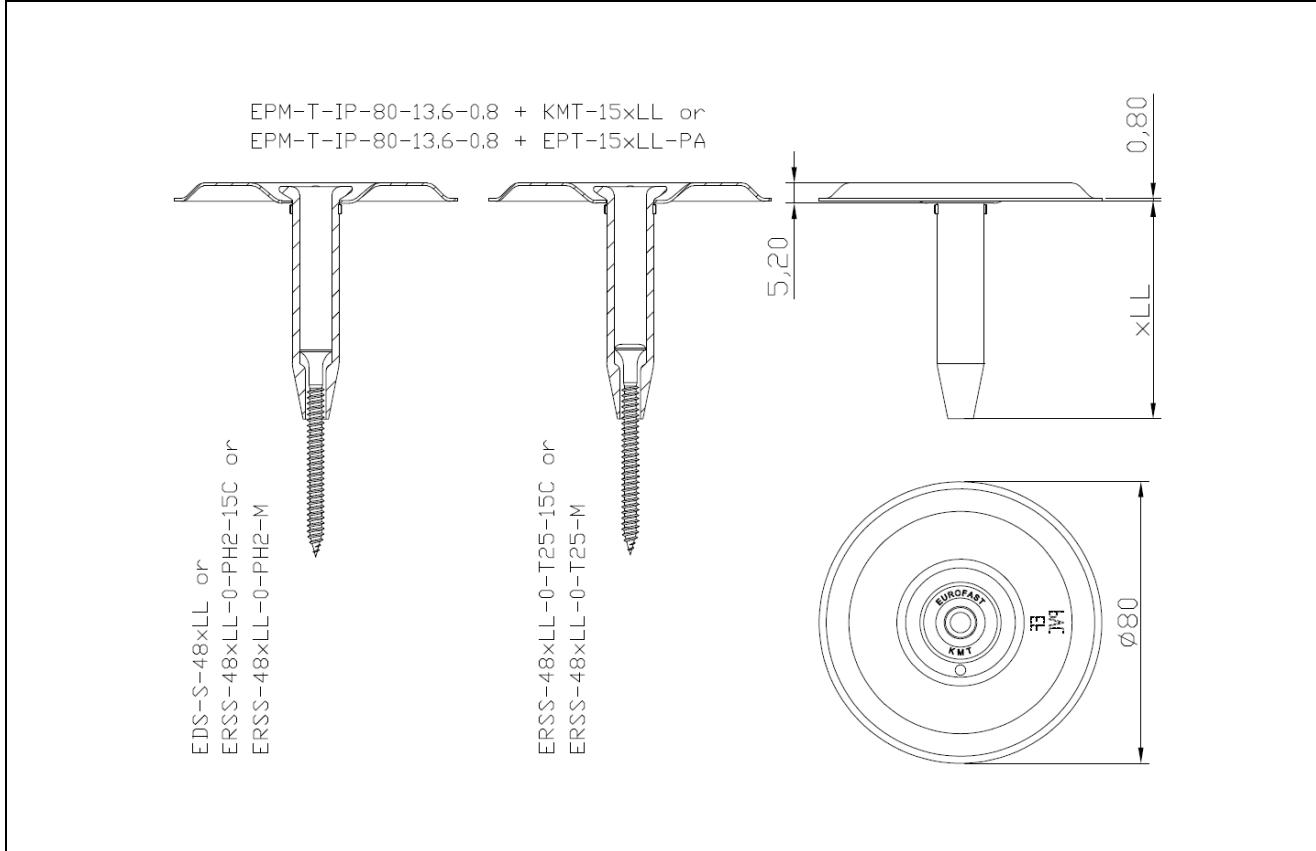
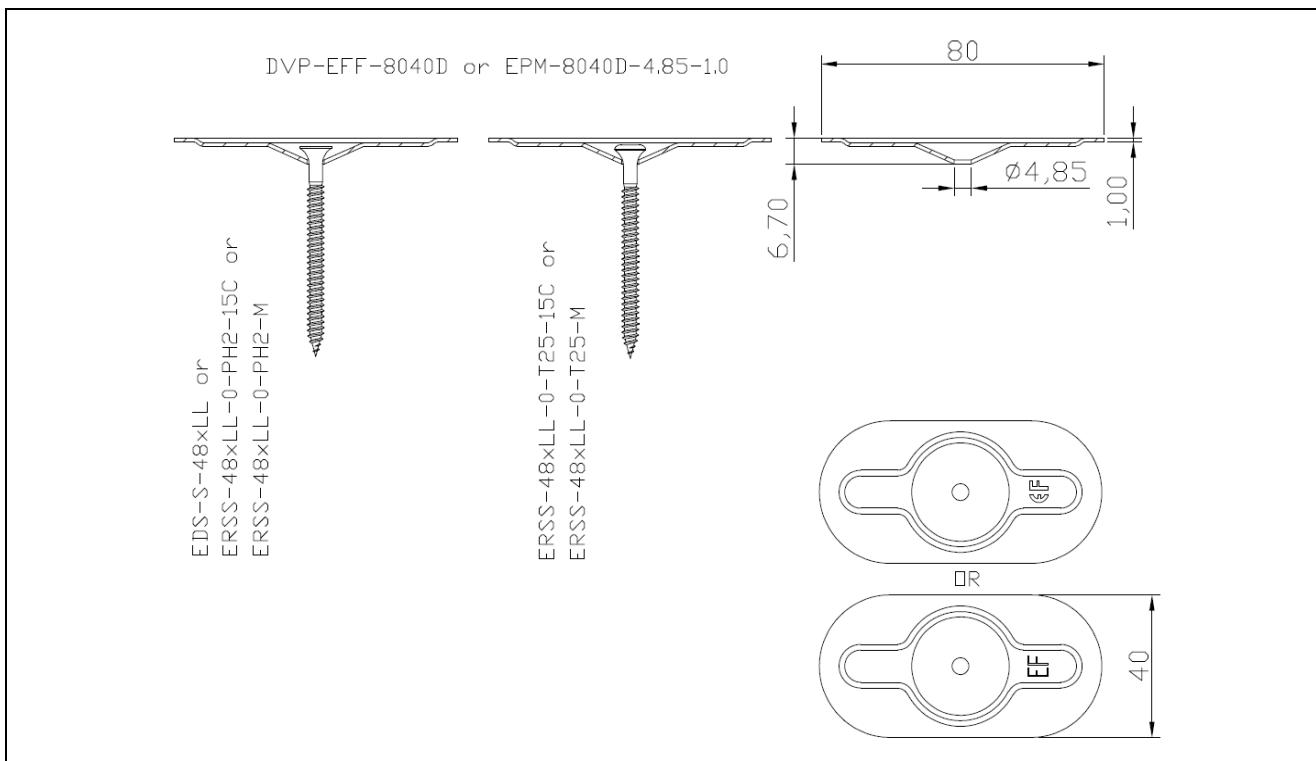


Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.21

<p>DVP-DFB-8240D or EPM-B-8240D-7.0-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> 	 <p>82</p> <p>7,00</p> <p>7,00</p> <p>1,00</p>  <p>40</p>
<p>DVP-EFZK-8240D or EPM-ZK-8240D-4.85-1.0</p> <p>EDS-S-48xLL or ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M</p> 	 <p>82</p> <p>7,20</p> <p>7,20</p> <p>1,00</p>   <p>40</p>
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M) (ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)</p>	<p>Annex A.22</p>

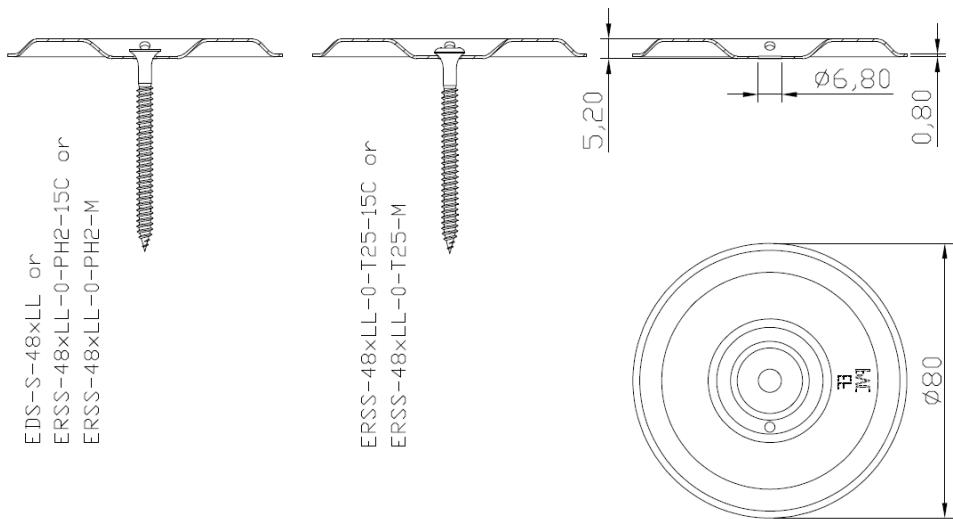


Eurofast Flat Roof Fasteners

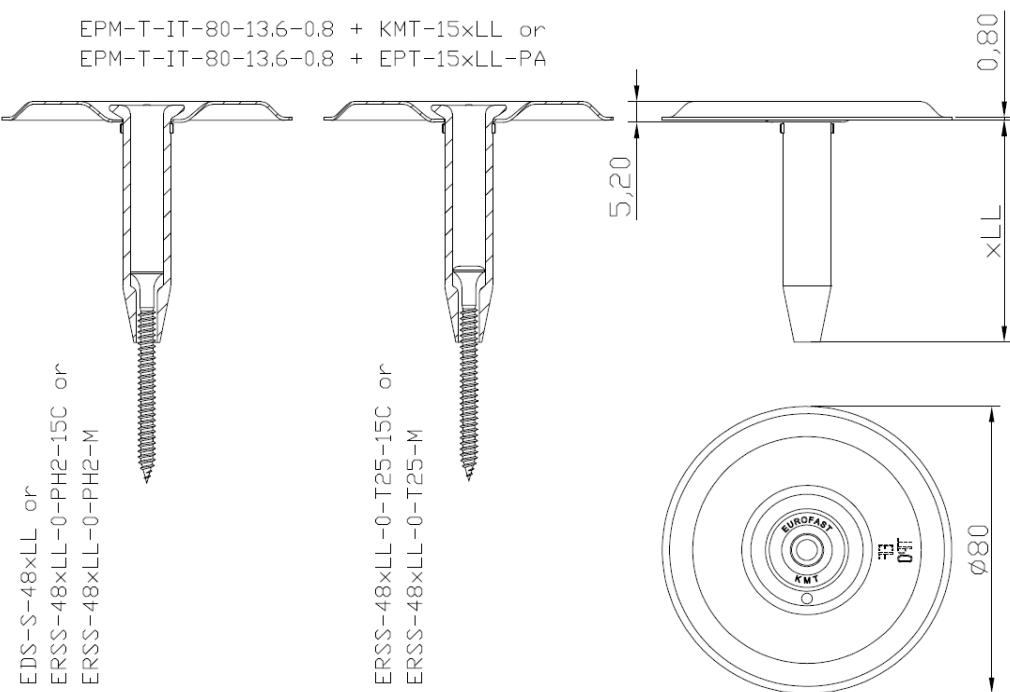
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.23

EPM-IP-80-6,8-0,8



EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA

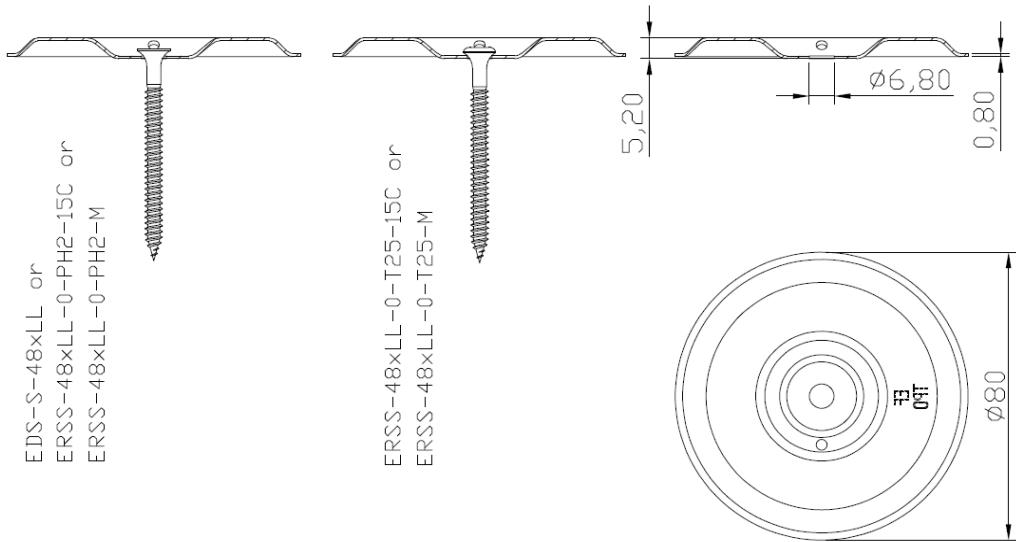


Eurofast Flat Roof Fasteners

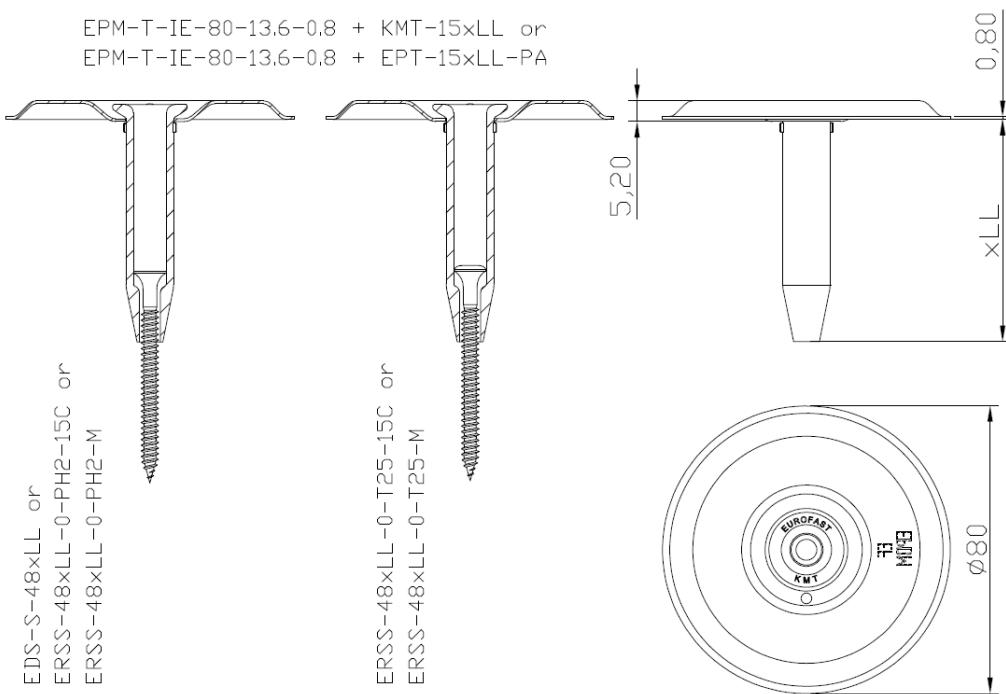
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.24

EPM-IT-80-6.8-0.8



EPM-T-IE-80-13.6-0.8 + KMT-15xLL or
EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA

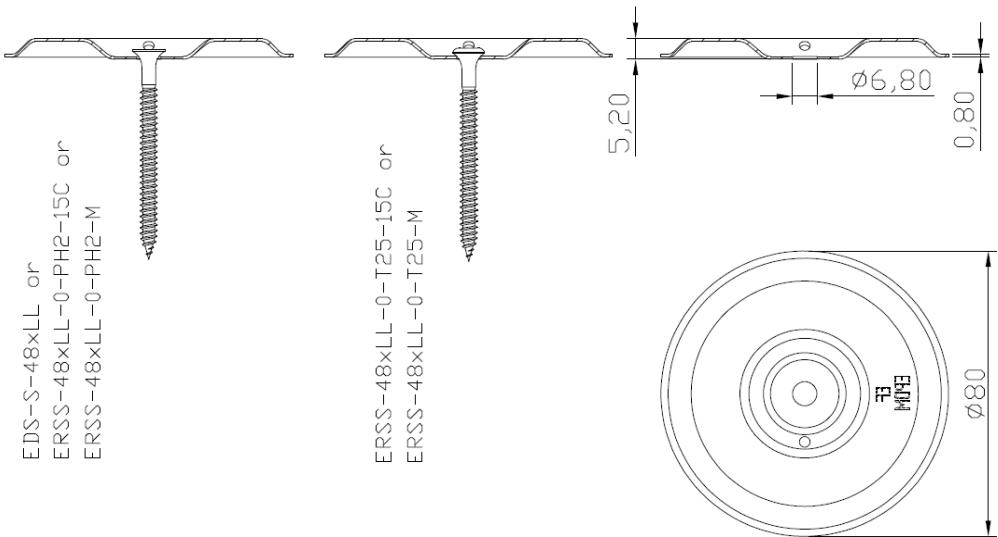


Eurofast Flat Roof Fasteners

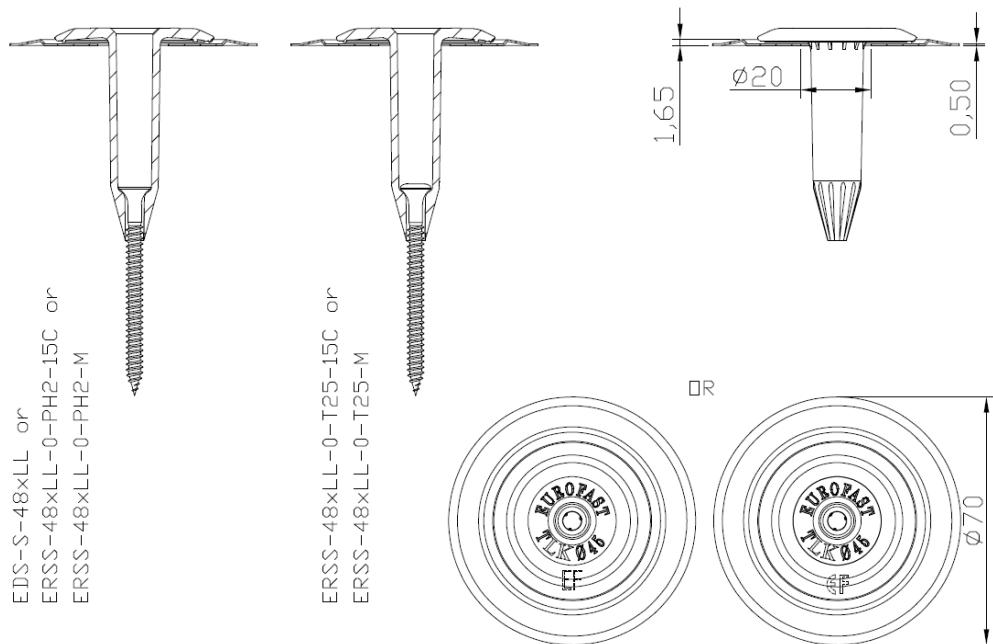
EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.25

EPM-IE-80-6.8-0.8



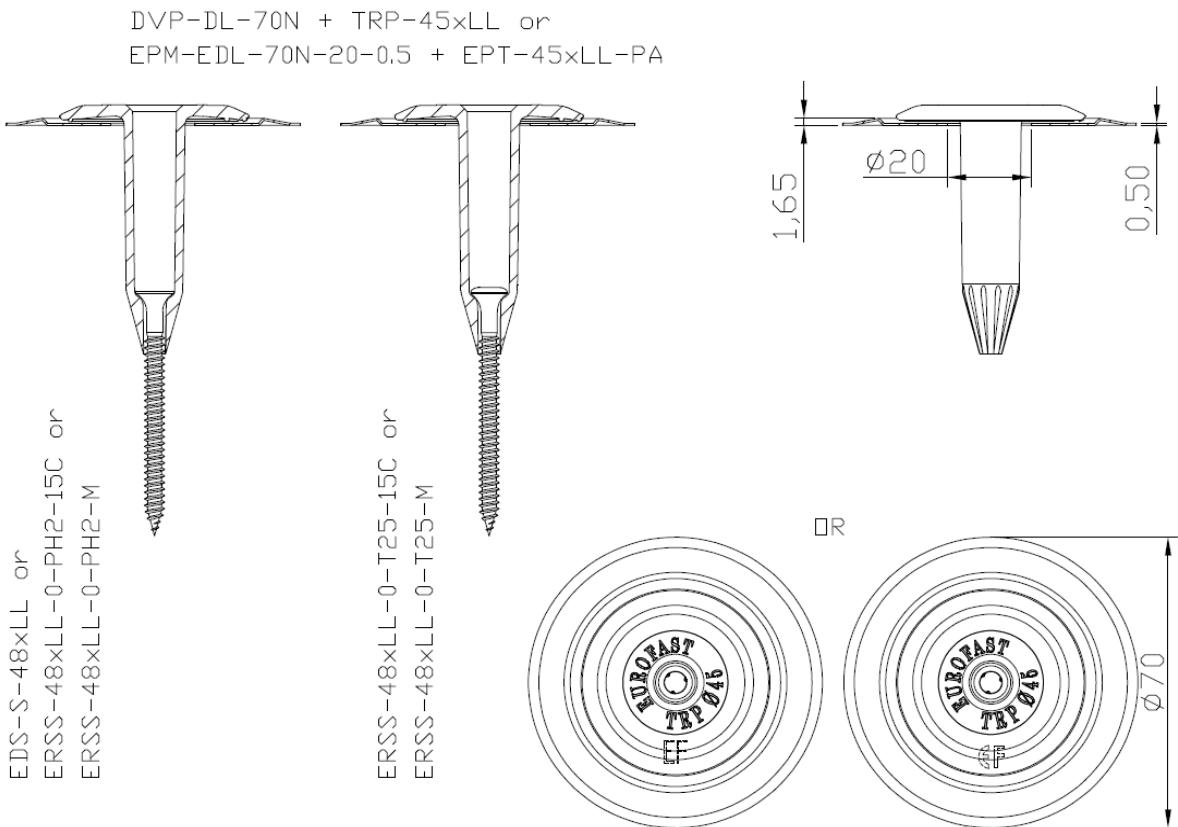
DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

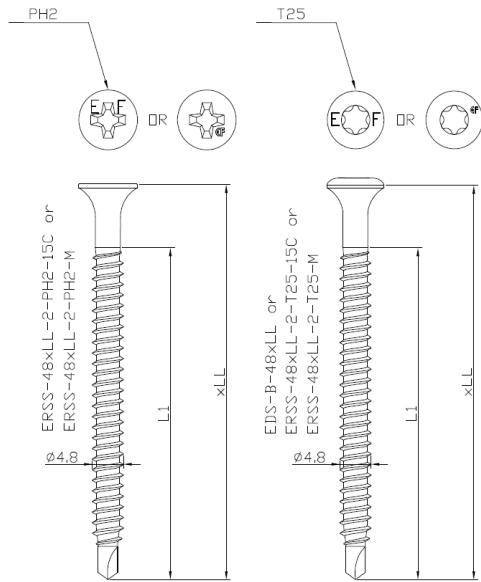
Annex A.26



Eurofast Flat Roof Fasteners

EDS-S-48xLL (ERSS-48xLL-0-PH2-15C or ERSS-48xLL-0-PH2-M)
(ERSS-48xLL-0-T25-15C or ERSS-48xLL-0-T25-M)

Annex A.27



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	Steel S320GD*					
t [mm]	0,70	0,75	0,80	0,88	1,00	1,25
EDS-B-48xLL (ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)	1,18	1,50	1,60	1,60	1,65	2,26
ERSS-48xLL-2-PH2-15C (ERSS-48xLL-2-PH2-M)	1,18	1,50	1,60	1,60	1,65	2,26

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	OSB/3	Chipboard	Plywood	Timber C24		
t [mm]	18	21	25	19	18	21
EDS-B-48xLL (ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)	1,12	1,20	1,22	1,18	1,08	1,29
ERSS-48xLL-2-PH2-15C (ERSS-48xLL-2-PH2-M)	1,12	1,20	1,22	1,18	1,08	1,29
						1,78

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)	DVP-EFB-51NS (EPM-B-51N-5.4-0.84)	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
DVP-EF-7005N (EPM-70N-5.1-0.5)	DVP-EF-7007H (EPM-70H-6.0-0.7)		-	-	EPM-IT-80-6.8-0.8
-	DVP-EF-7007N (EPM-70N-6.0-0.7)		-	-	EPM-IE-80-6.8-0.8
EDS-B-48xLL (ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)	2,36	2,91	3,87	2,93	2,92
ERSS-48xLL-2-PH2-15C (ERSS-48xLL-2-PH2-M)	2,36	2,91	3,87	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
EDS-B-48xLL (ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)	2,64	1,68	1,78
ERSS-48xLL-2-PH2-15C (ERSS-48xLL-2-PH2-M)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)
	DVP-EF-5010DFR (EPM-50D-4.85-1.0)	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)
	DVP-EF-7070D (EPM-7070D-4.85-1.0)	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
	DVP-EF-7010DFR (EPM-70D-4.85-1.0)	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
	DVP-EF-8240D (EPM-8240D-4.85-1.0)	-	-	-	
	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	-	-	-	
	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	-	-	-	
	DVP-EFK-8240D (EPM-ZK-8240D-4.85-1.0)	-	-	-	
	DVP-EFF-8040D (EPM-8040D-4.85-1.0)	-	-	-	
EDS-B-48xLL (ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)	5,18	5,05	4,43	3,89	2,96
ERSS-48xLL-2-PH2-15C (ERSS-48xLL-2-PH2-M)	5,18	5,05	4,43	3,89	2,96

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex B.2

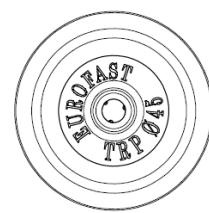
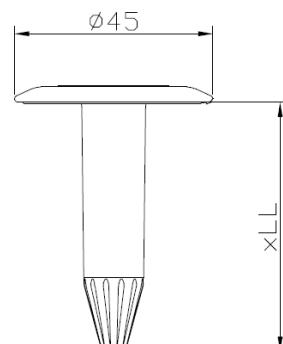
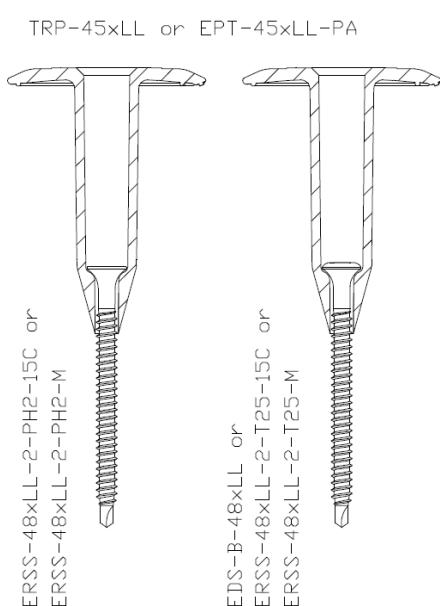
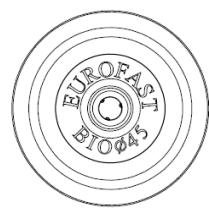
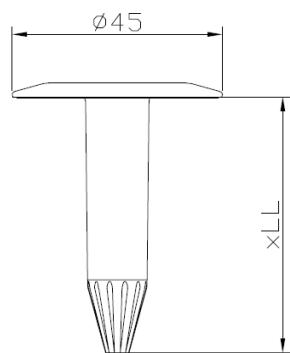
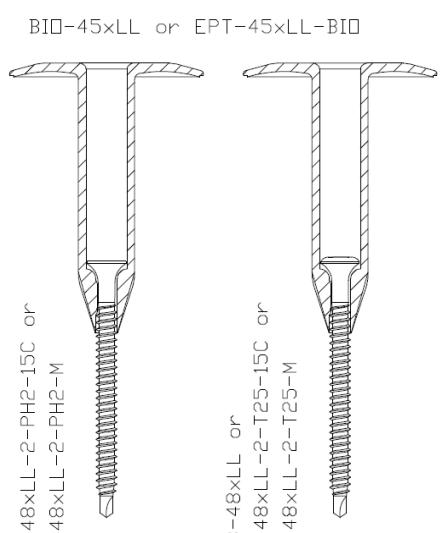
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Screw:			
EDS-B-48xLL ERSS-48xLL-2-PH2-15C	(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M) (ERSS-48xLL-2-PH2-M)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240H	(EPM-8240H-7.0-1.0)
DVP-EF-5010DFR	(EPM-50D-4.85-1.0)	DVP-EF-8240XH	(EPM-8240XH-4.85-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-EFB-51NS	(EPM-B-51N-5.4-0.84)
DVP-EF-7070D	(EPM-7070D-4.85-1.0)	DVP-EF-51N	(EPM-51N-6.7-0.84)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	DVP-EFB-8240D	(EPM-B-8240D-4.85-1.0)
DVP-EF-7010DFR	(EPM-70D-4.85-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-EF-7005D	(EPM-70D-5.0-0.5)	DVP-EFK-8240D	(EPM-ZK-8240D-4.85-1.0)
DVP-EF-7007D	(EPM-70D-6.0-0.7)	DVP-EFF-8040D	(EPM-8040D-4.85-1.0)
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7005N	(EPM-70N-5.1-0.5)	EPM-IE-80-6.8-0.8	
DVP-EF-7007N	(EPM-70N-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8240D	(EPM-8240D-4.85-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	Termination bar:	
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
BTRP-45xLL	(EPT-B-45xLL-PA)	EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
TWP-8040xLL	(EPT-8040xLL-PA)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TLK-45xLL	(EPT-45xLL-PP)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Steel S280		EN 10346	
Steel S320		EN 10346	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class \geq C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
Max. drilling capacity in steel substrate:	2x1,25 mm		
HUKAD type:	Bugle HUKAD / Raised Bugle HUKAD		
Recess:	PH2 / TX25		
Fixing in steel substrate:	Minimum 20 mm of the screw fixed through the steel sheet		
Fixing in wooden and wood-based substrate:	Full thread through the substrate or minimum embedment depth		
Installation force of installation tool in:			
- steel substrate	15 kg		
- in wooden and wood-based substrate:	30 kg		
Installation tool speed:	2000 - 2500 rpm		

Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.3

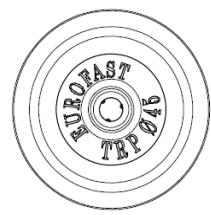
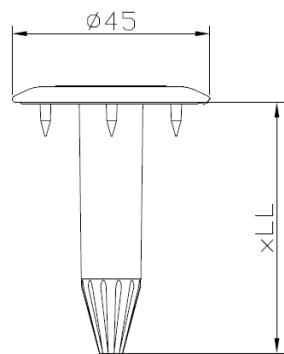
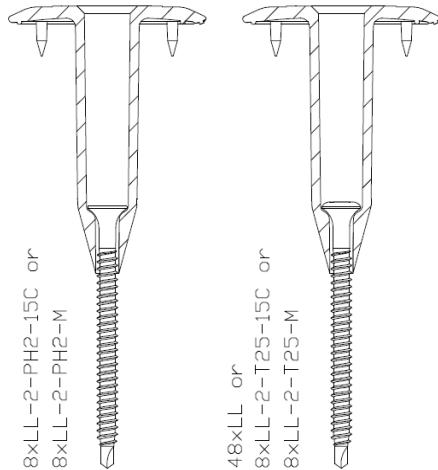


Eurofast Flat Roof Fasteners

**EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)**

Annex B.4

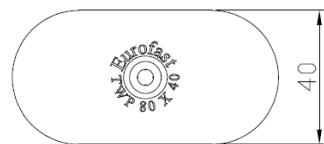
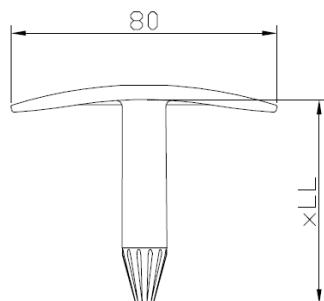
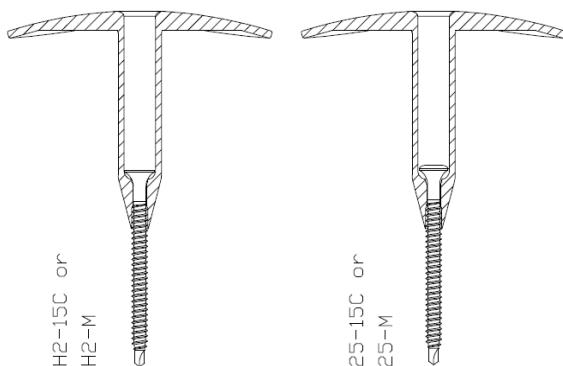
BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

ERSS-48xLL-2-PH2-15C or
ERSS-48xLL-2-PH2-M

EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M

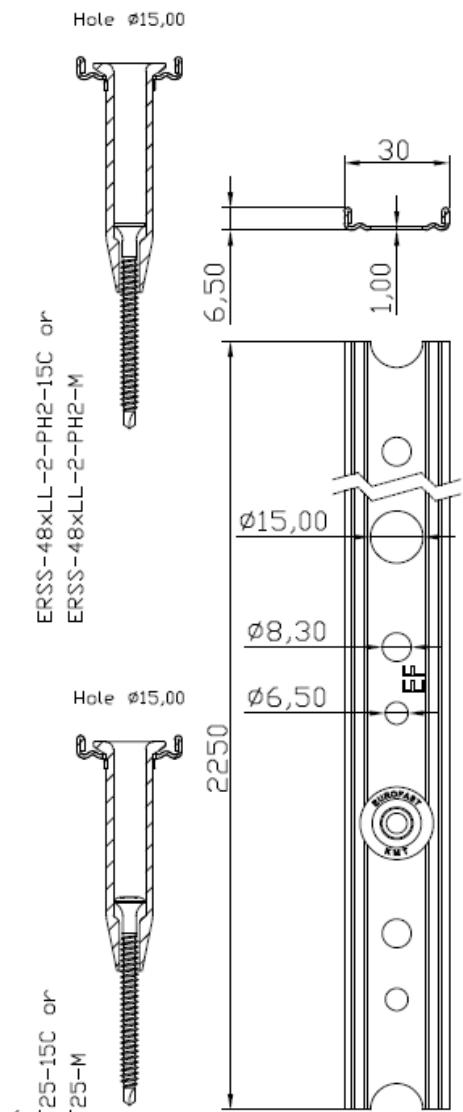


Eurofast Flat Roof Fasteners

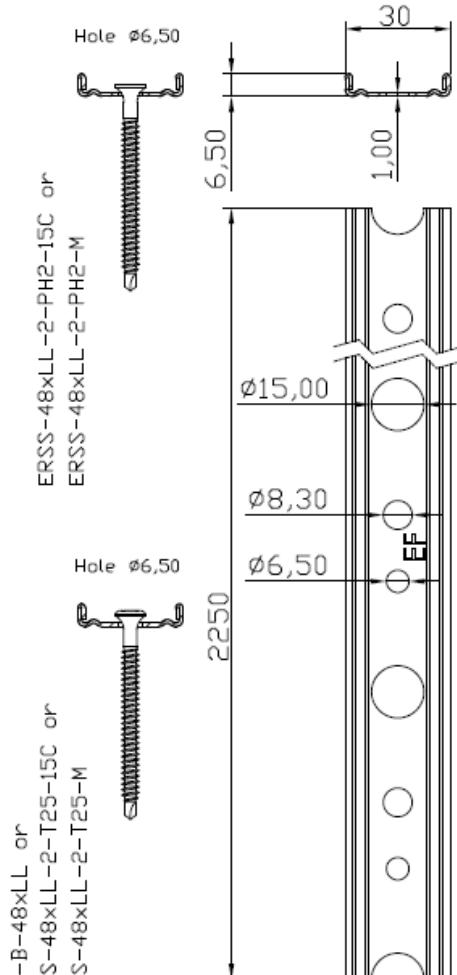
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0



EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M

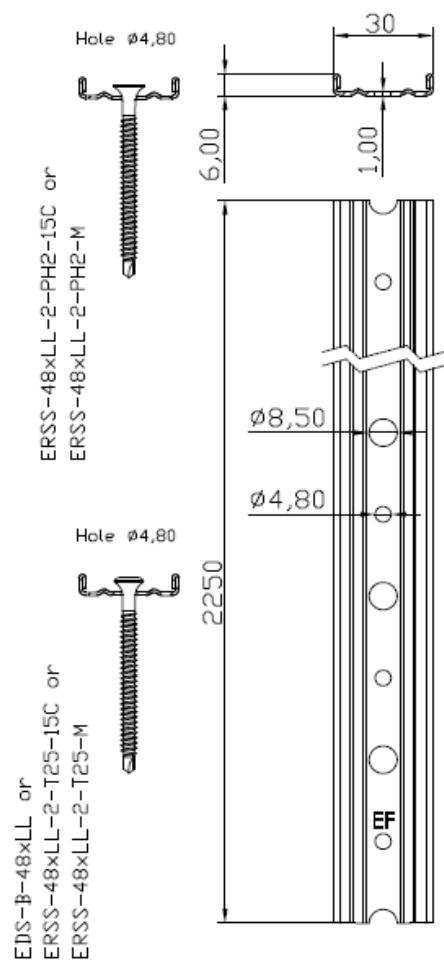
EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M

Eurofast Flat Roof Fasteners

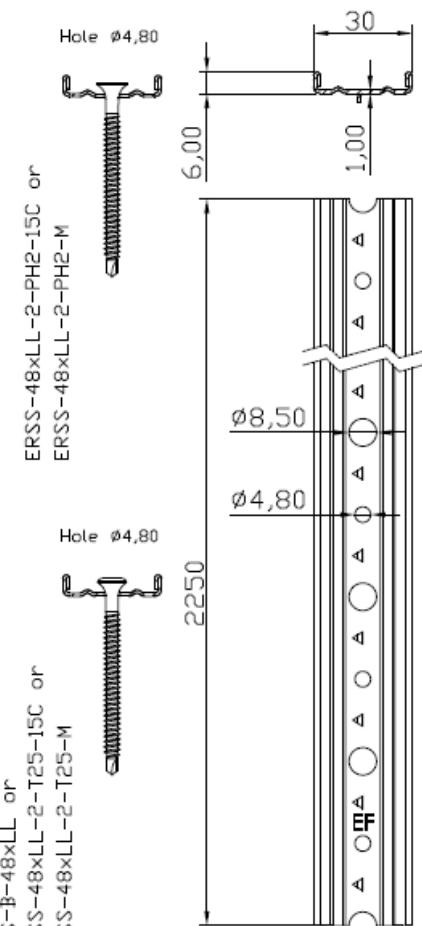
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.6

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

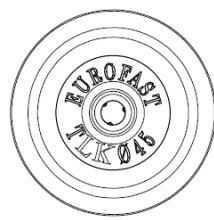
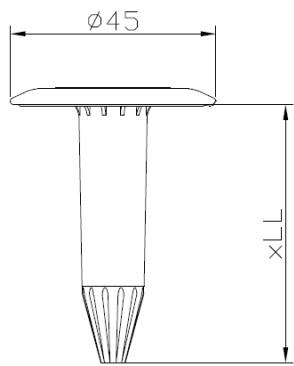
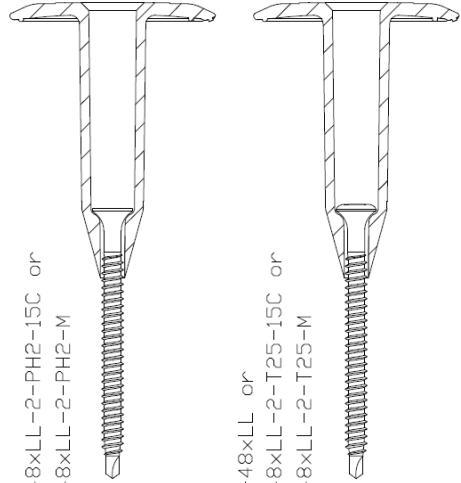


Eurofast Flat Roof Fasteners

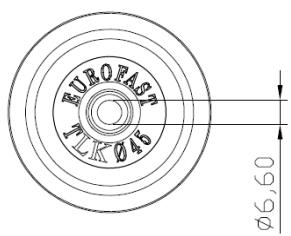
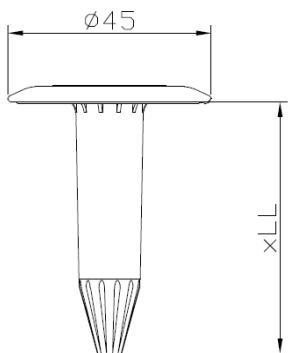
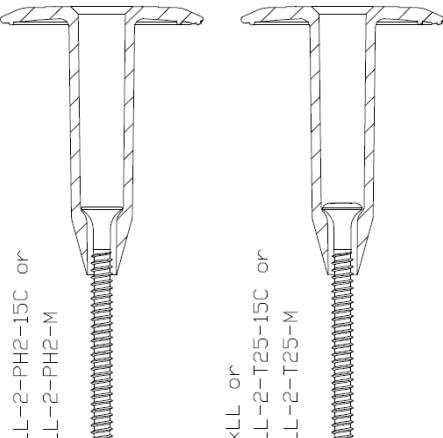
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.7

TLK-45xLL or EPT-45xLL-PP



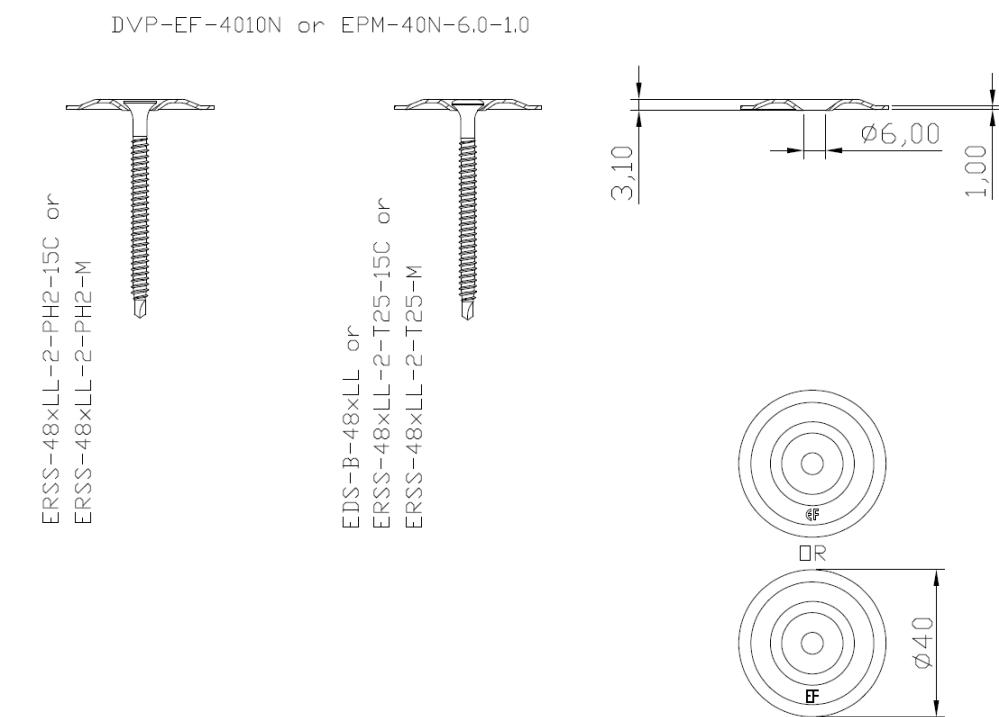
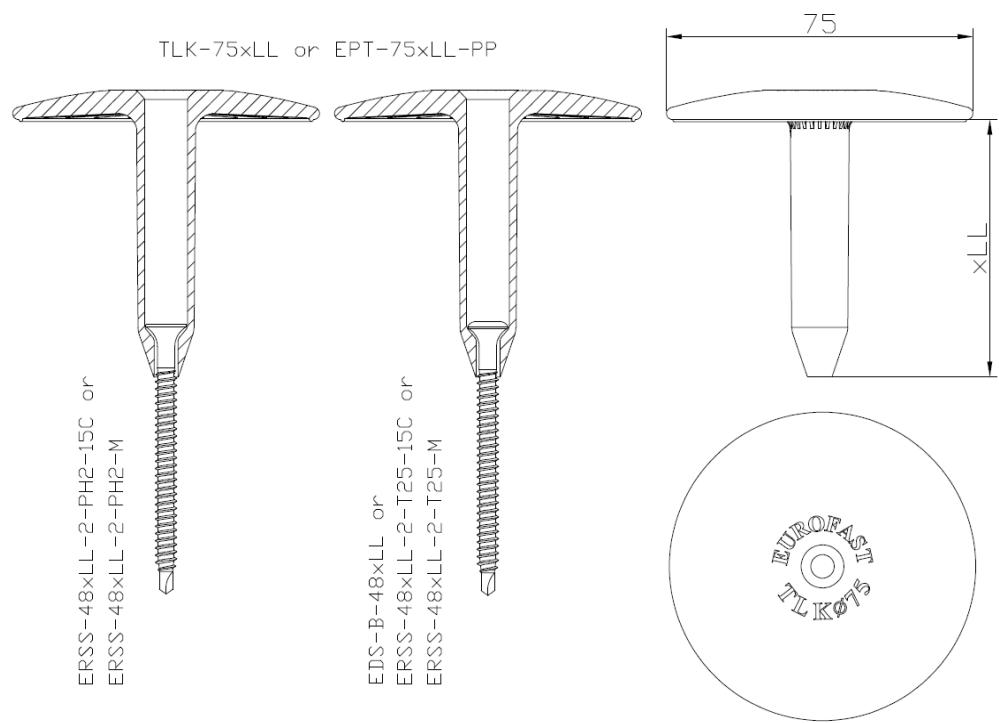
HTLK-45xLL or EPT-Ø-45xLL-PP



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.8

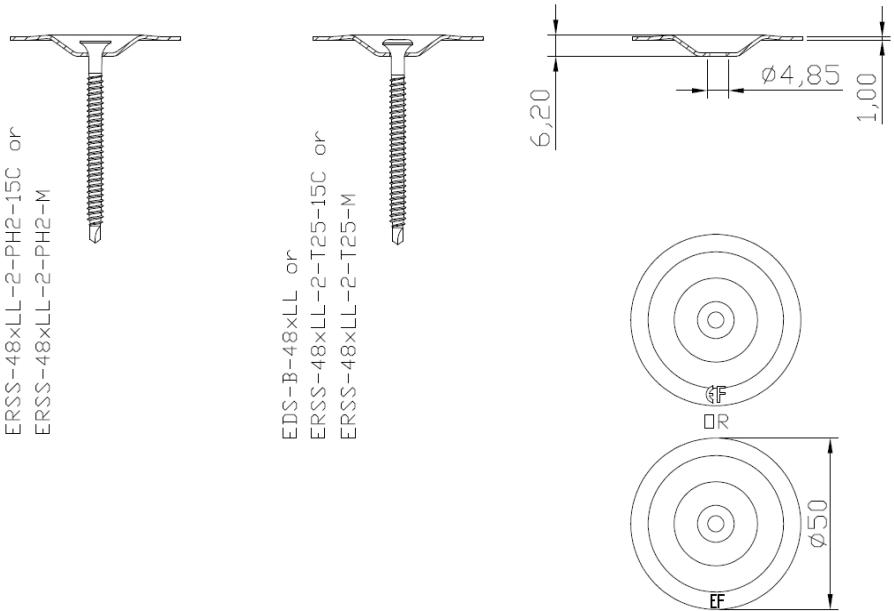


Eurofast Flat Roof Fasteners

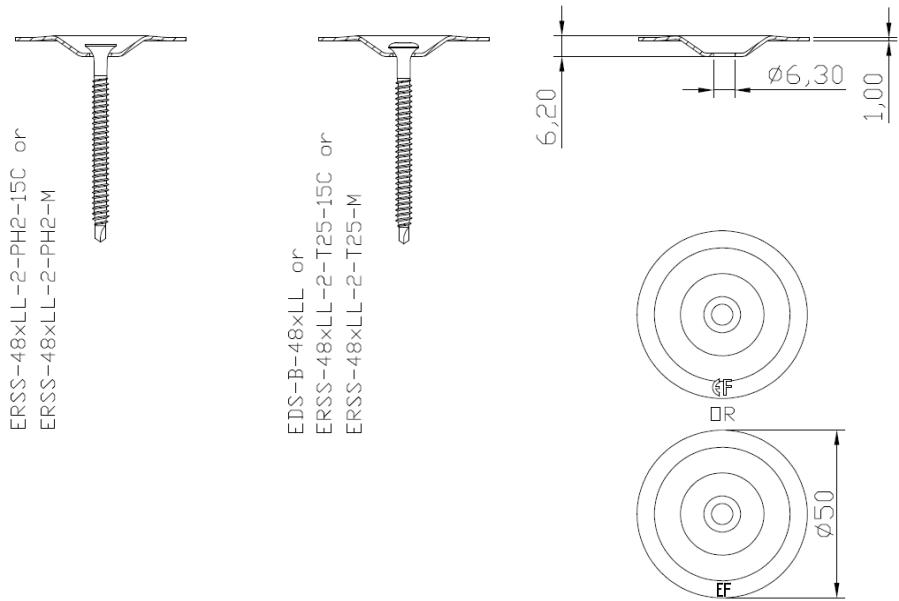
Annex B.9

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-5010DFR or EPM-50D-4,85-1,0



DVP-EF-5010D or EPM-50D-6,3-1,0

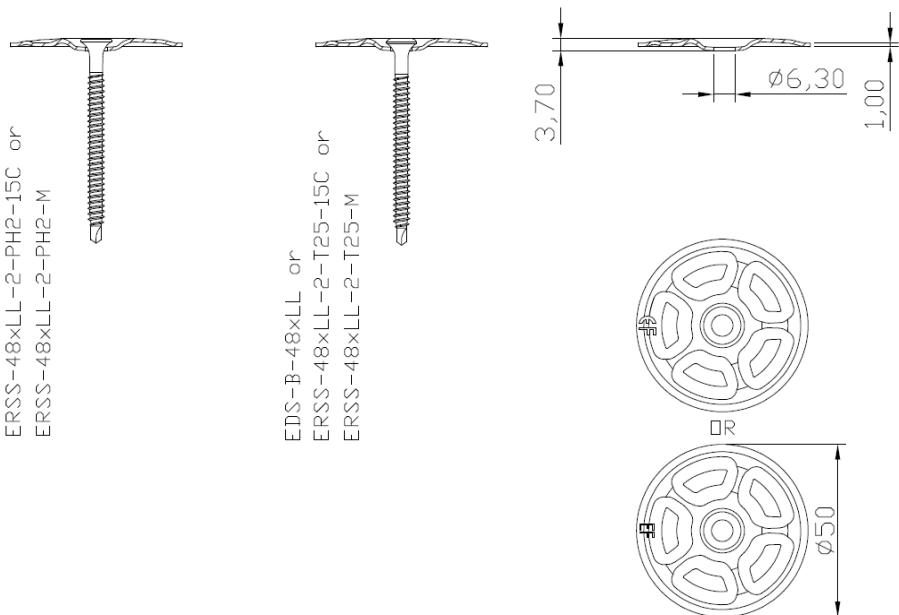


Eurofast Flat Roof Fasteners

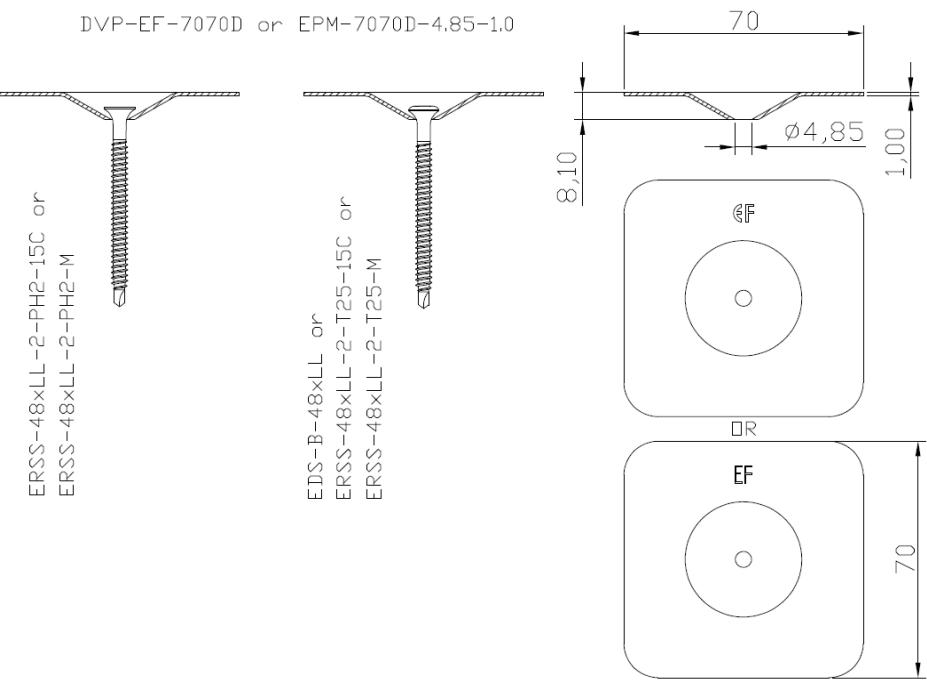
Annex B.10

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-5010N or EPM-50N-6.3-1.0



DVP-EF-7070D or EPM-7070D-4.85-1.0

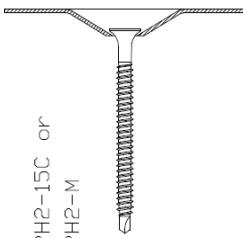


Eurofast Flat Roof Fasteners

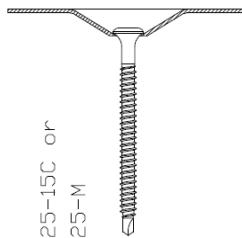
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.11

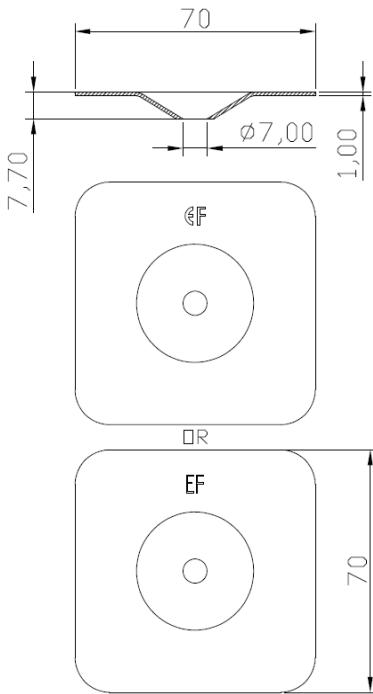
DVP-DF-7070D or EPM-7070D-7,0-1,0



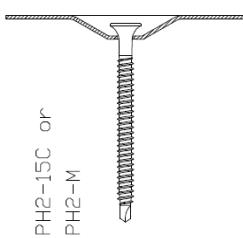
ERSS-48xLL-2-PH2-15C or
ERSS-48xLL-2-PH2-M



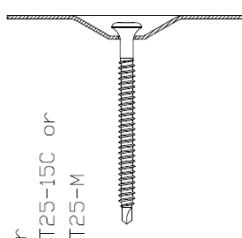
EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M



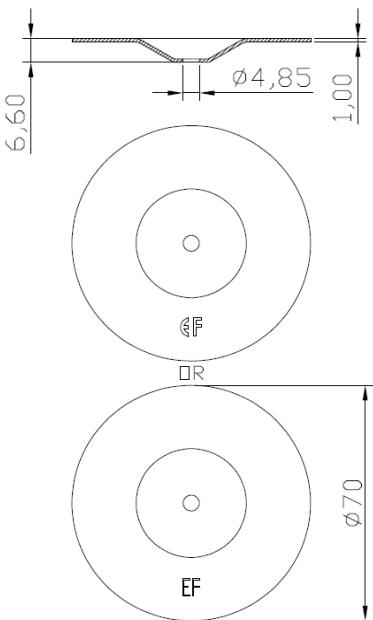
DVP-EF-7010DFR or EPM-70D-4,85-1,0



ERSS-48xLL-2-PH2-15C or
ERSS-48xLL-2-PH2-M



EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M

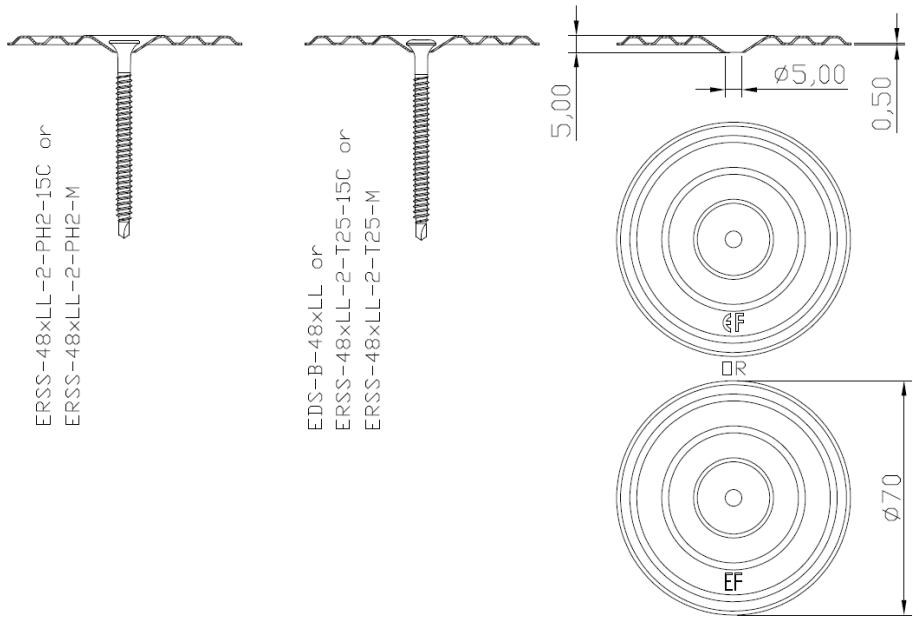


Eurofast Flat Roof Fasteners

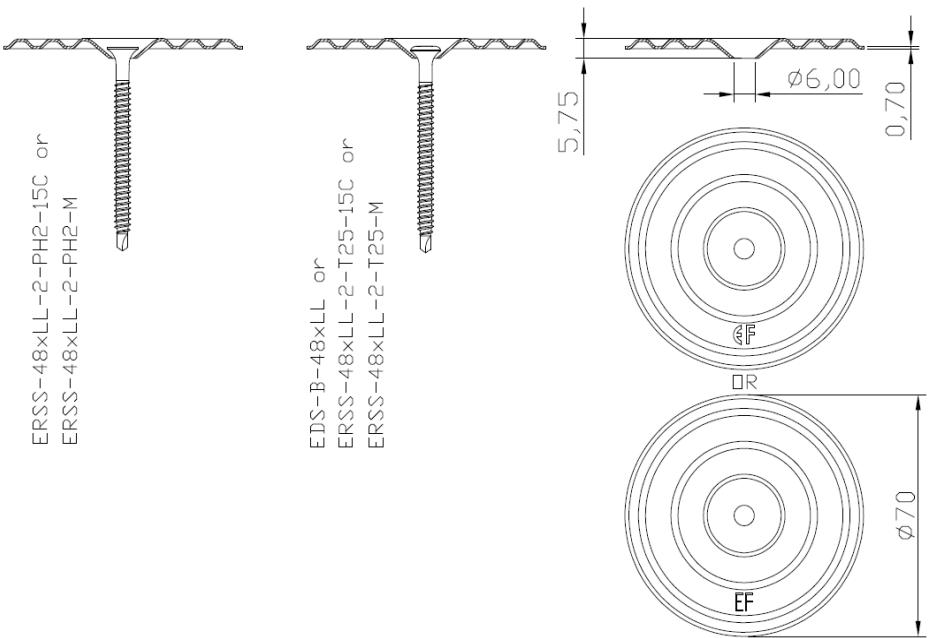
Annex B.12

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-7005D or EPM-70D-5.0-0.5



DVP-EF-7007D or EPM-70D-6.0-0.7

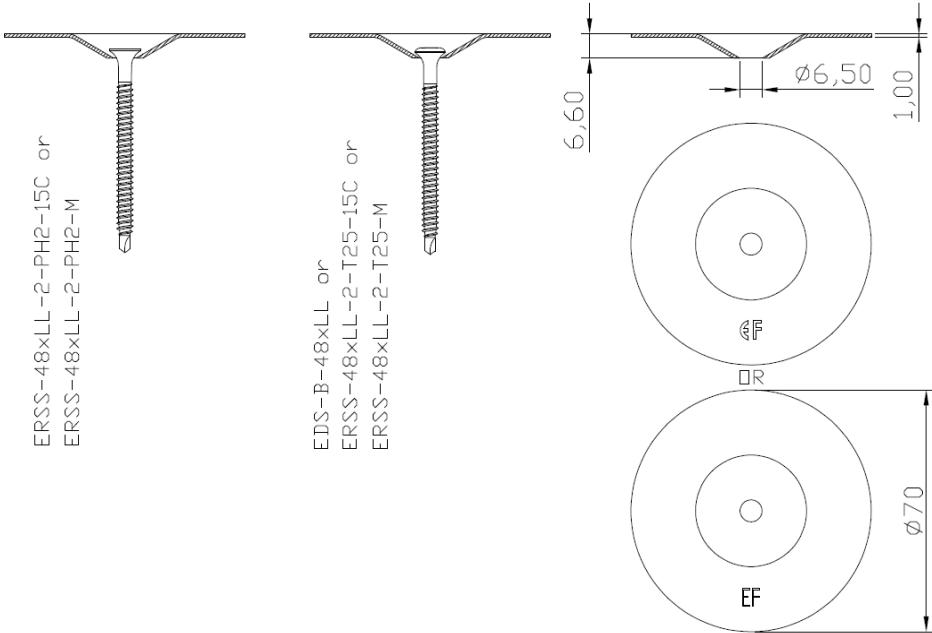


Eurofast Flat Roof Fasteners

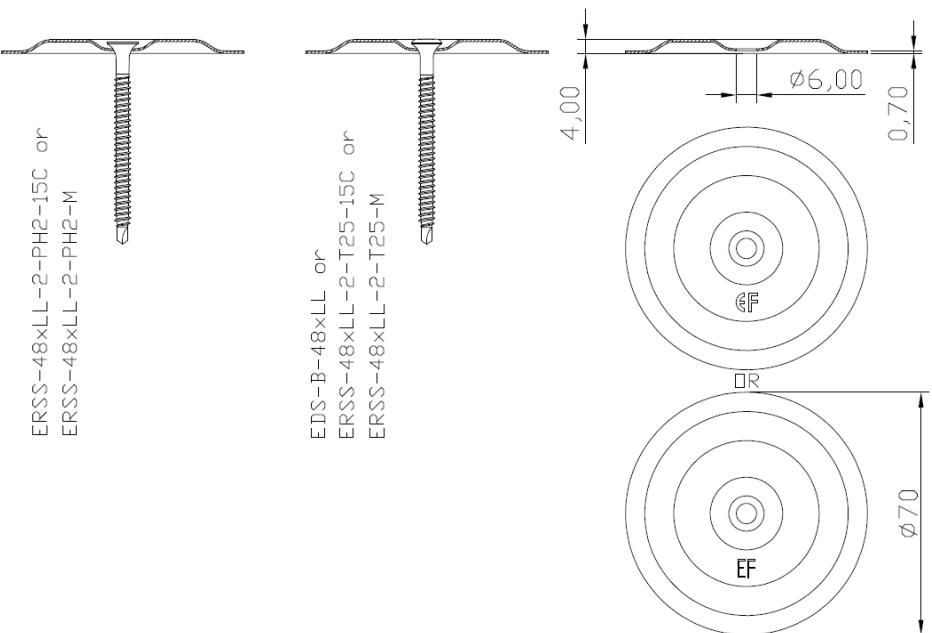
Annex B.13

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-7010D or EPM-70D-6.5-1.0



DVP-EF-7007H or EPM-70H-6.0-0.7

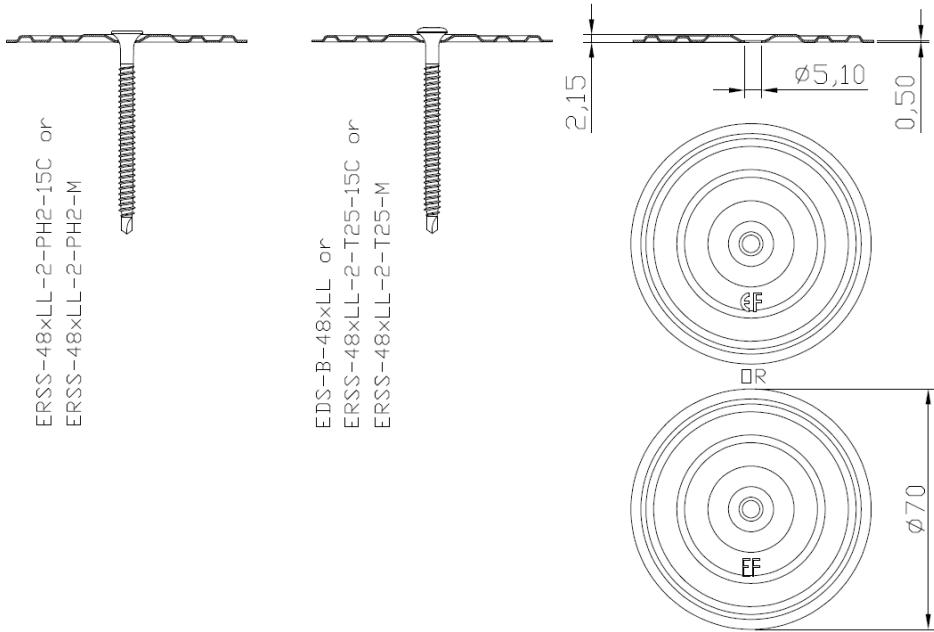


Eurofast Flat Roof Fasteners

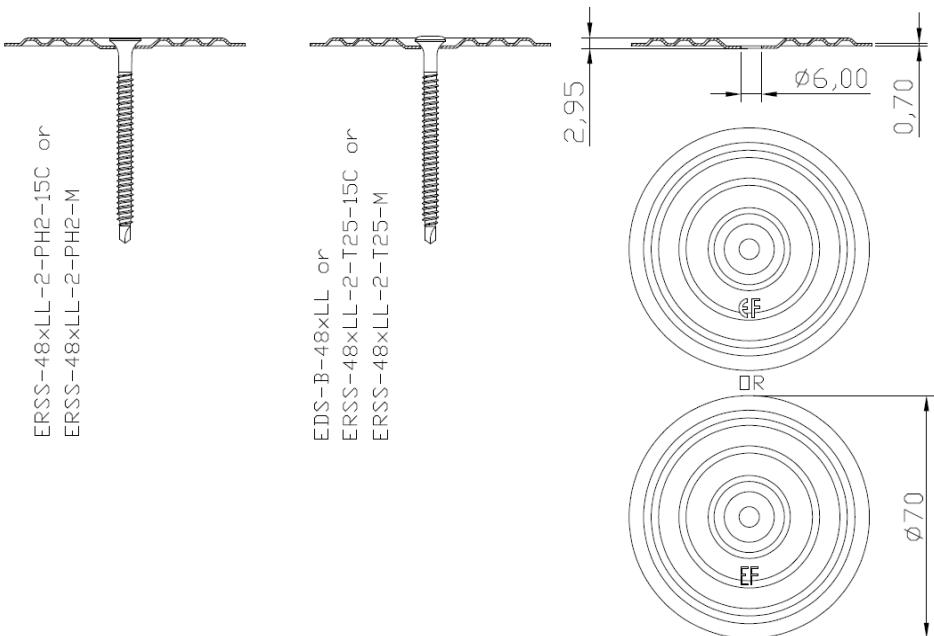
Annex B.14

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-7005N or EPM-70N-5,1-0,5



DVP-EF-7007N or EPM-70N-6,0-0,7

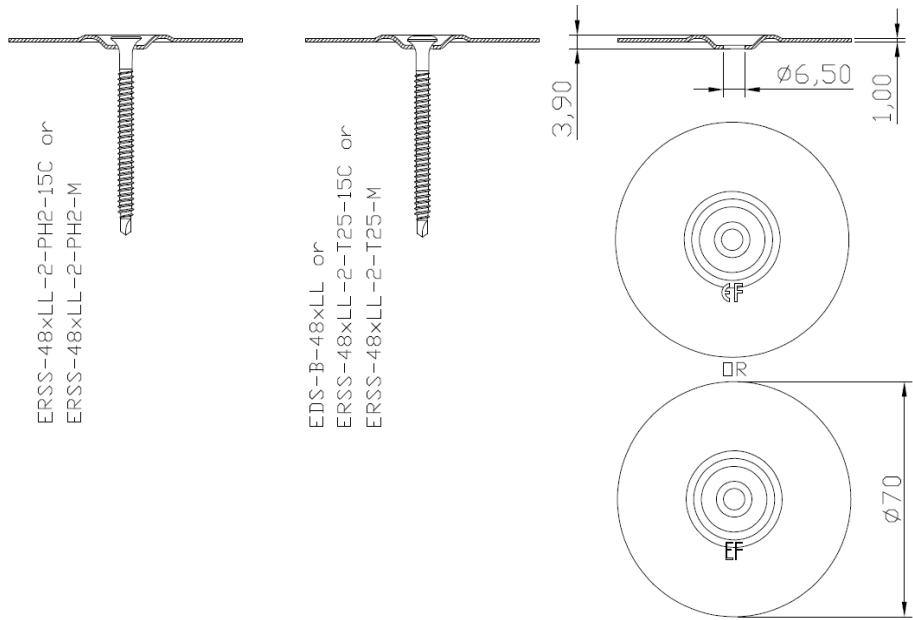


Eurofast Flat Roof Fasteners

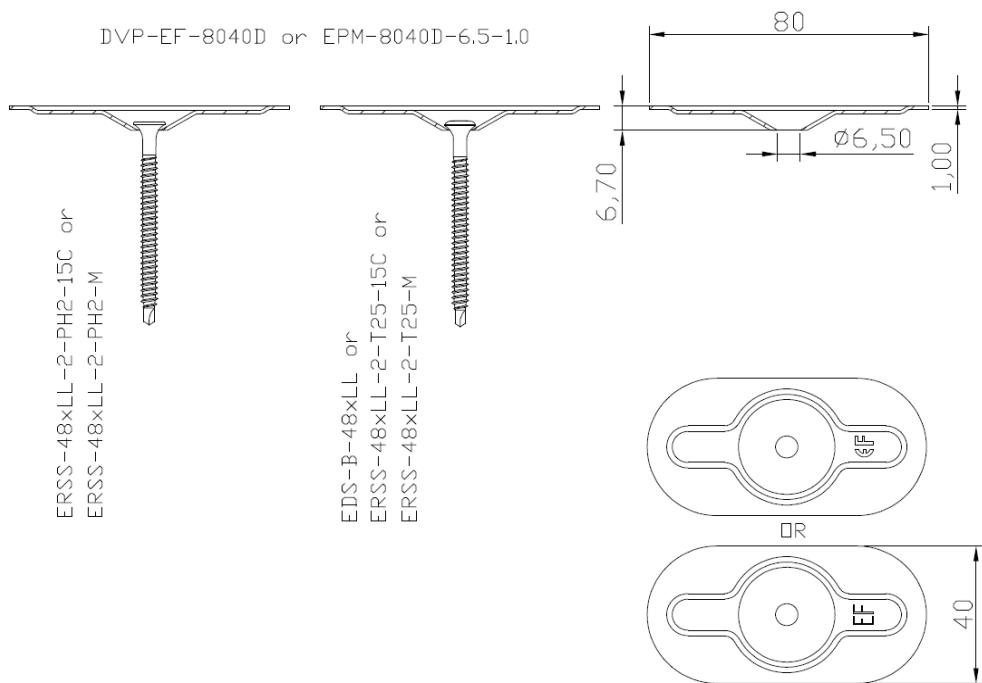
Annex B.15

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

DVP-EF-7010N or EPM-70N-6.5-1.0



DVP-EF-8040D or EPM-8040D-6.5-1.0

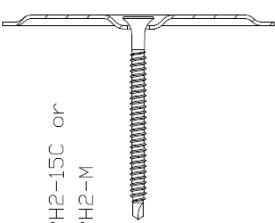


Eurofast Flat Roof Fasteners

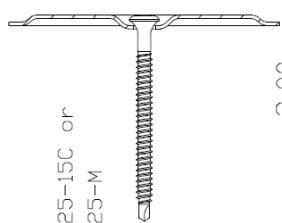
Annex B.16

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

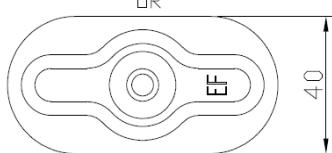
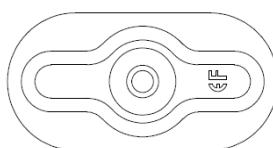
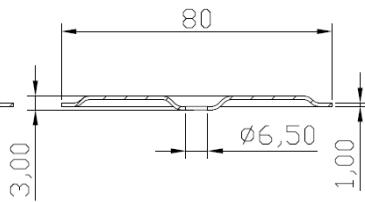
DVP-EF-8040N or EPM-8040N-6.5-1.0



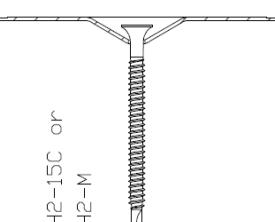
ERSS-48xLL-2-PH2-15C or
ERSS-48xLL-2-PH2-M



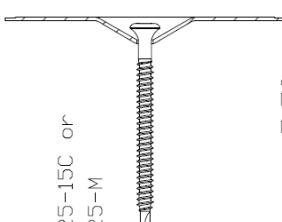
EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M



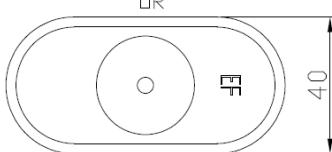
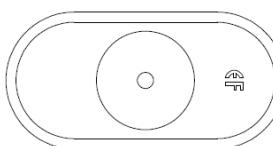
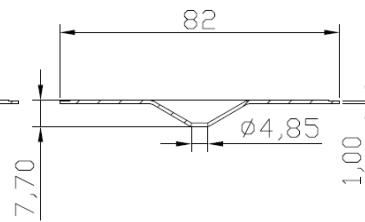
DVP-EF-8240D or EPM-8240D-4.85-1.0



ERSS-48xLL-2-PH2-15C or
ERSS-48xLL-2-PH2-M



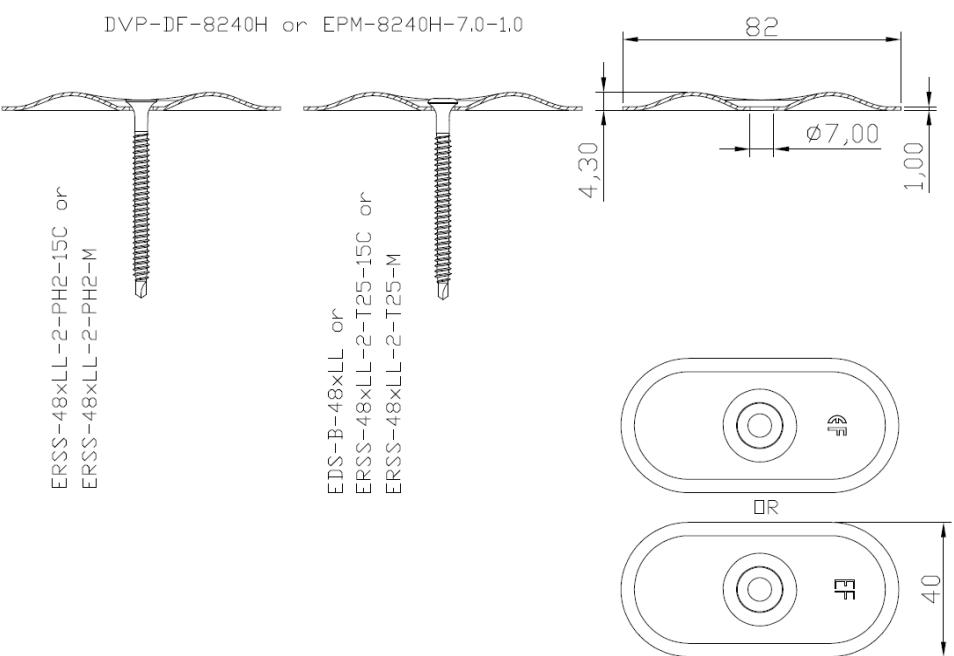
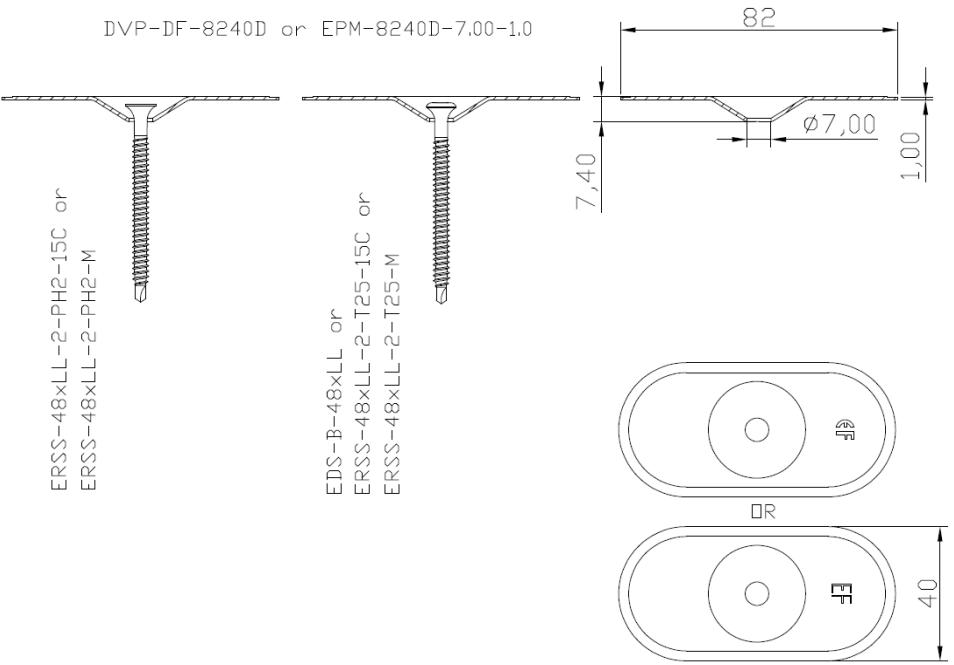
EDS-B-48xLL or
ERSS-48xLL-2-T25-15C or
ERSS-48xLL-2-T25-M



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

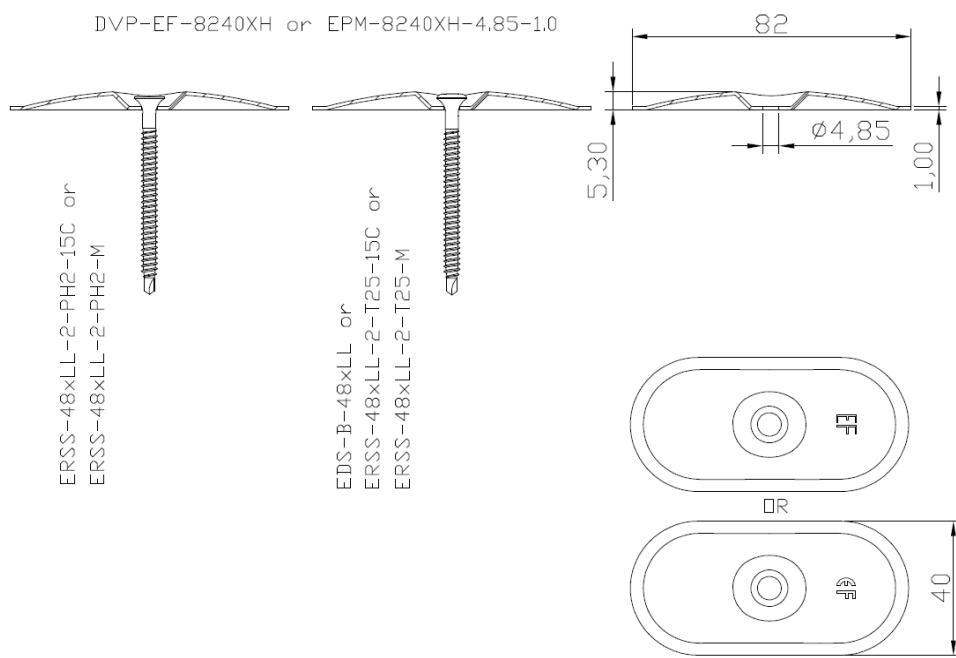
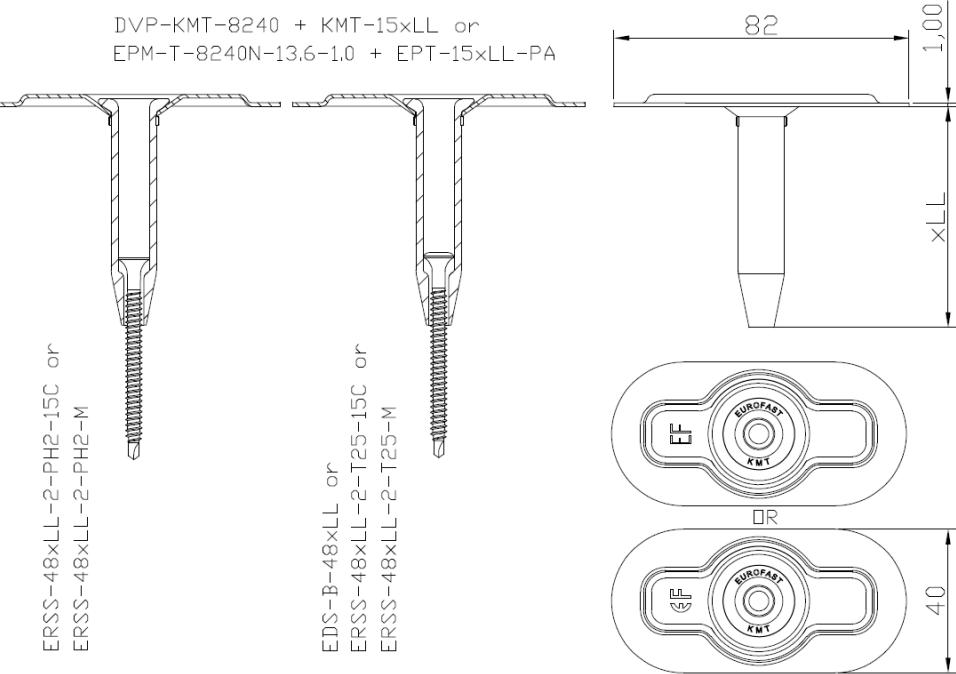
Annex B.17



Eurofast Flat Roof Fasteners

Annex B.18

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

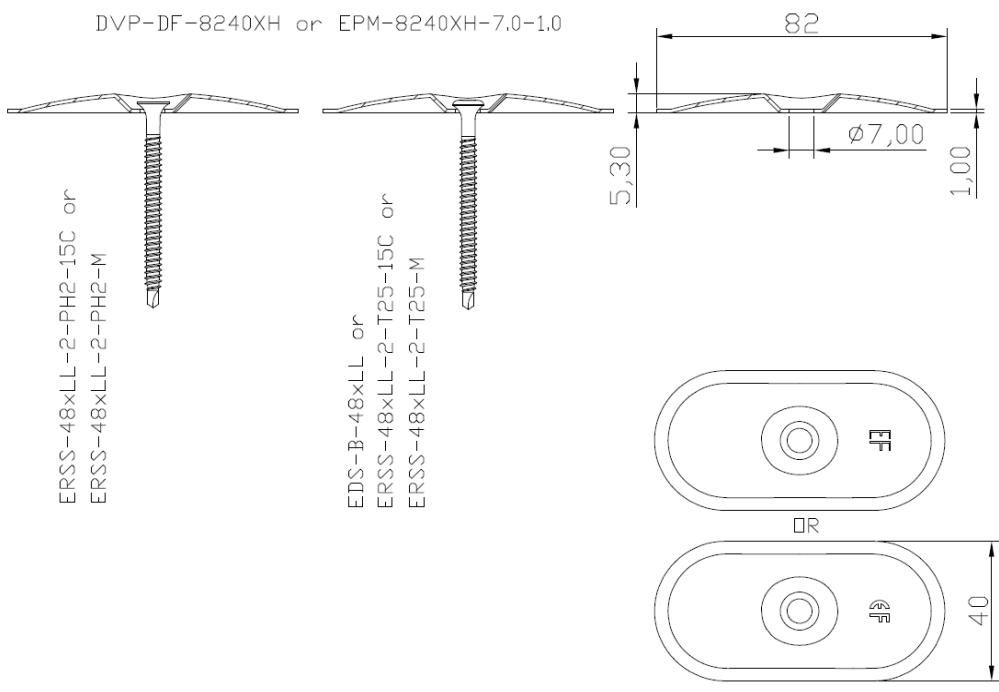


Eurofast Flat Roof Fasteners

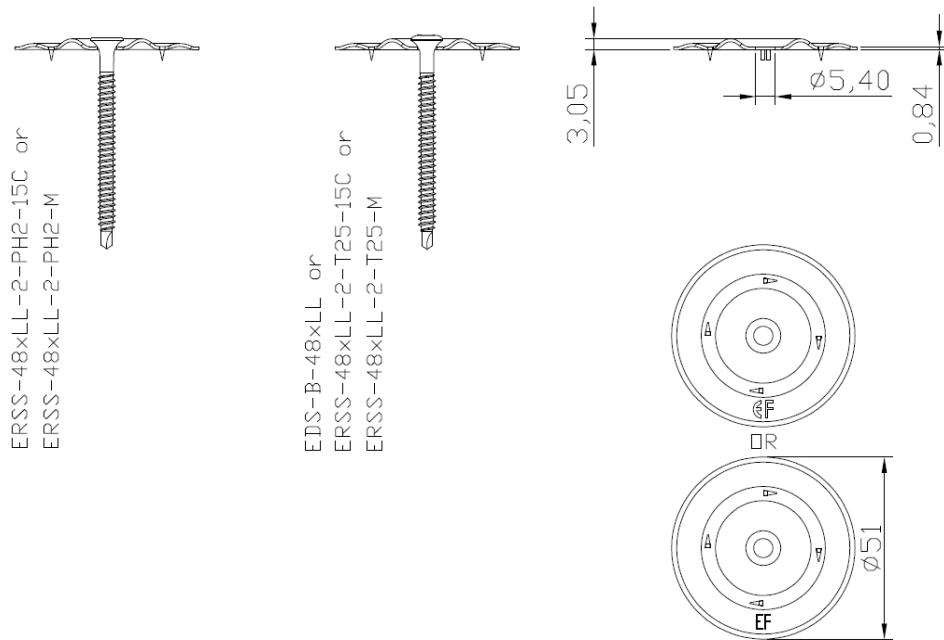
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.19

DVP-DF-8240XH or EPM-8240XH-7.0-1.0



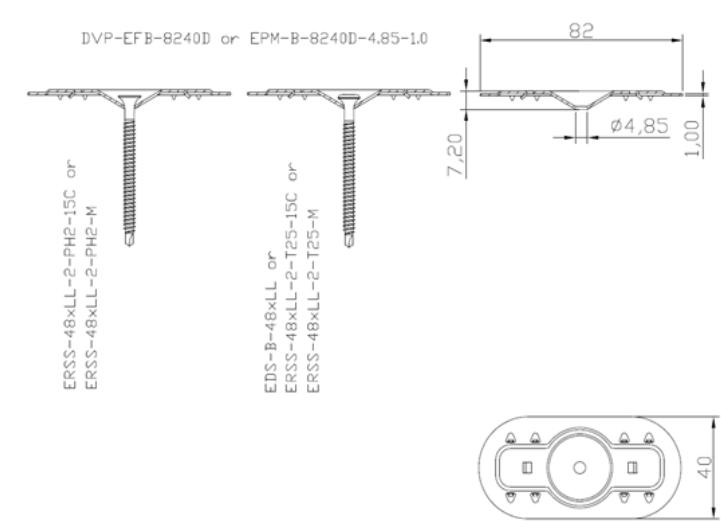
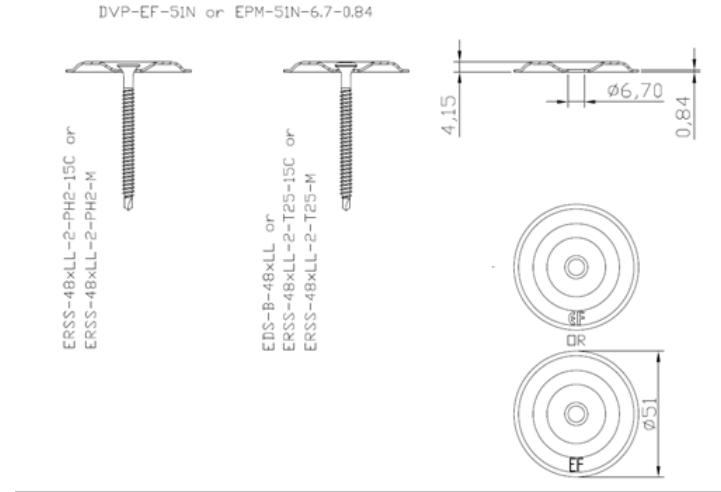
DVP-EFB-51NS or EPM-B-51N-5.4-0.84



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

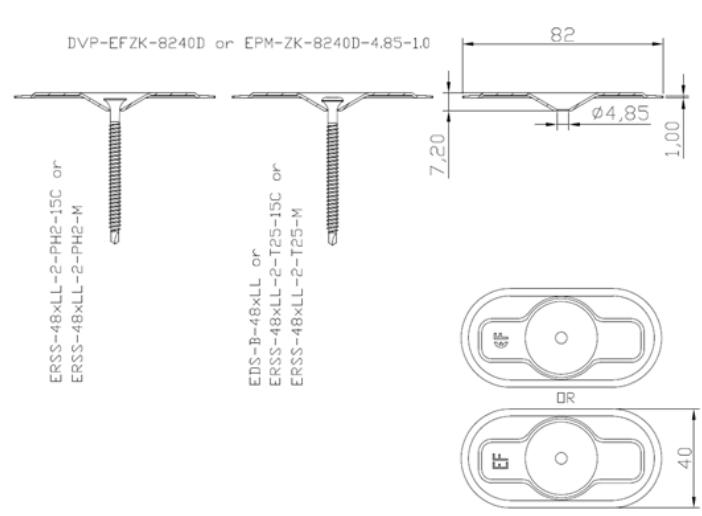
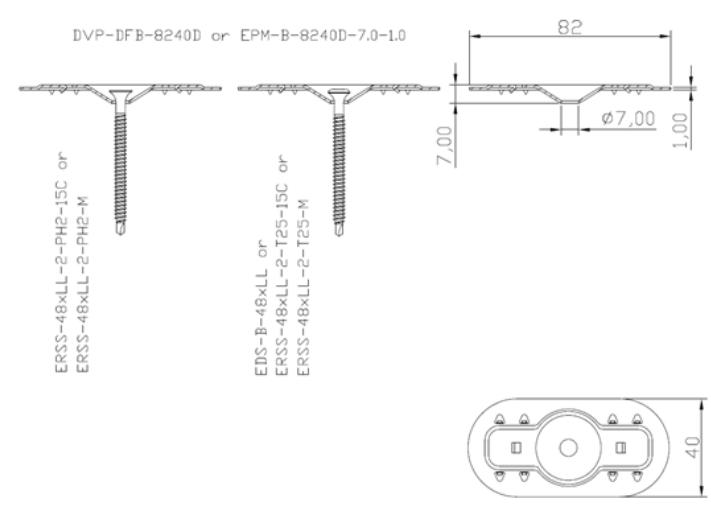
Annex B.20



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

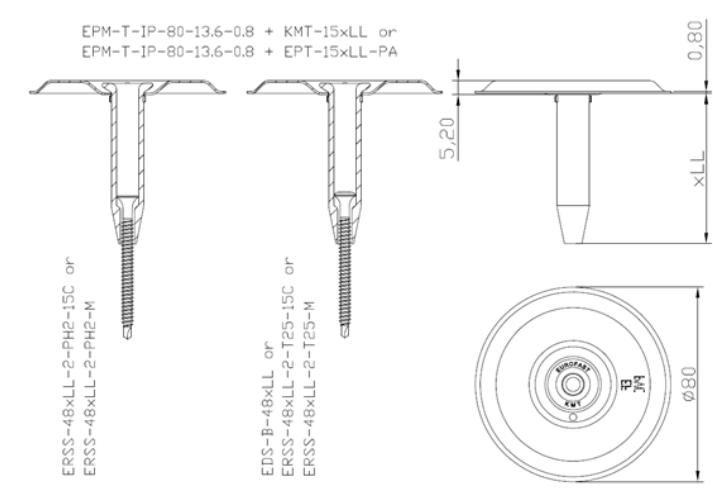
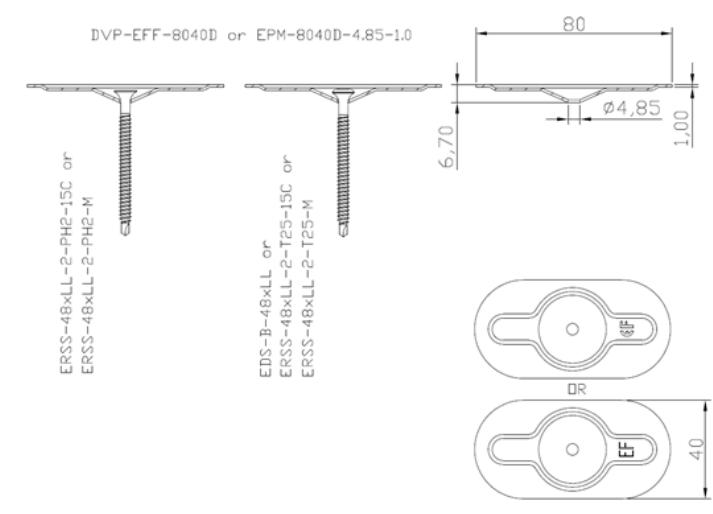
Annex B.21



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

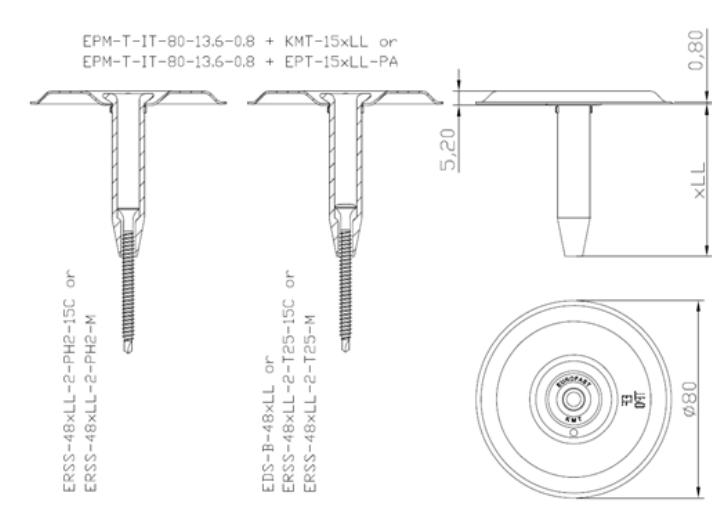
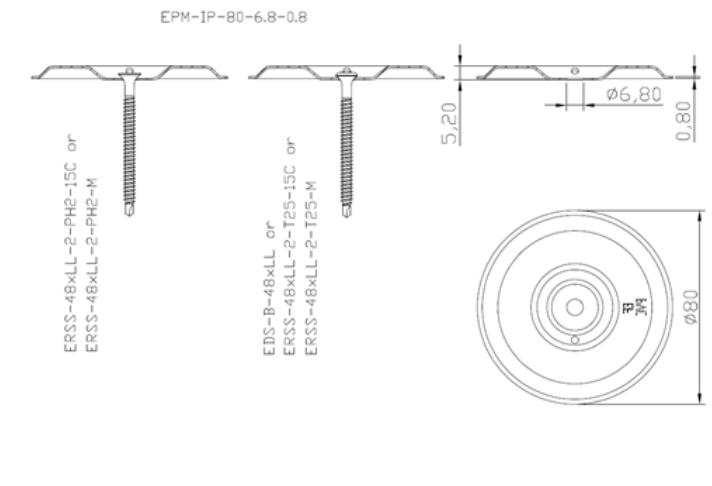
Annex B.22



Eurofast Flat Roof Fasteners

Annex B.23

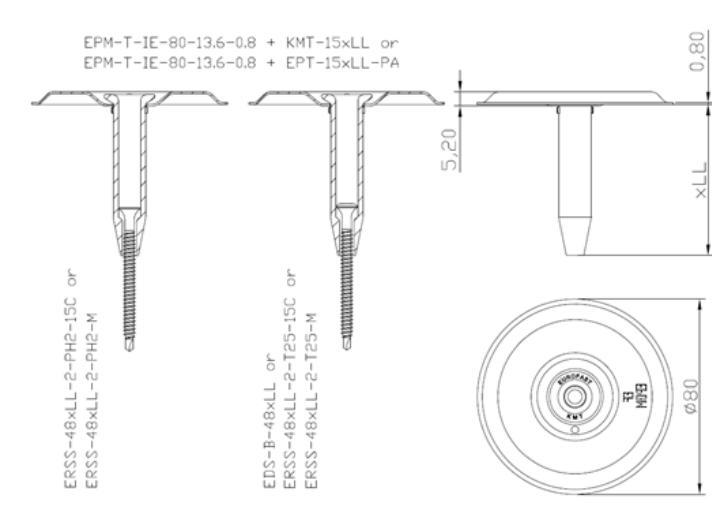
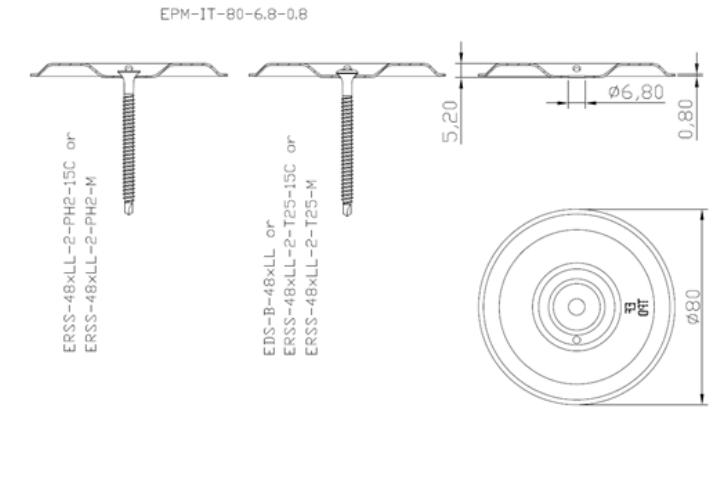
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(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)



Eurofast Flat Roof Fasteners

Annex B.24

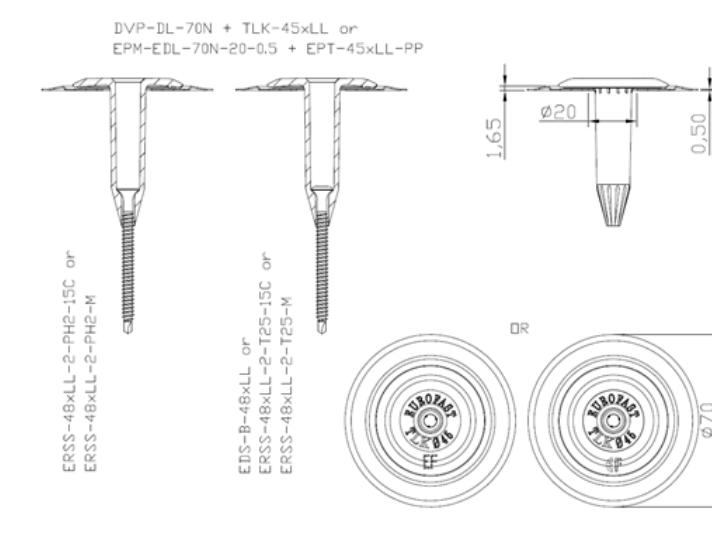
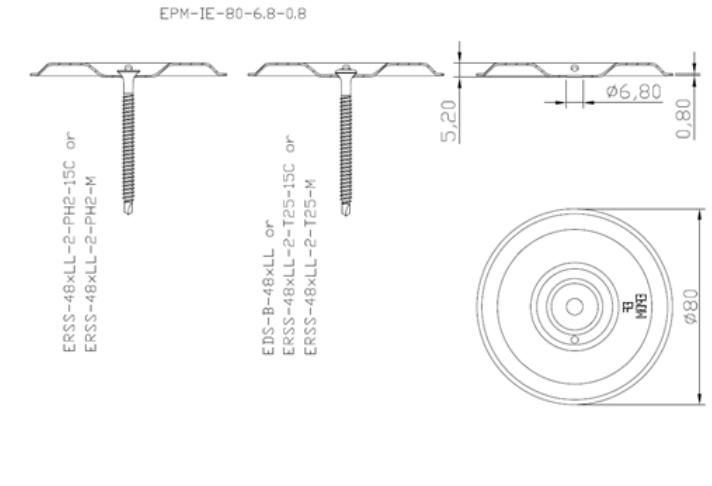
EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)



Eurofast Flat Roof Fasteners

**EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)**

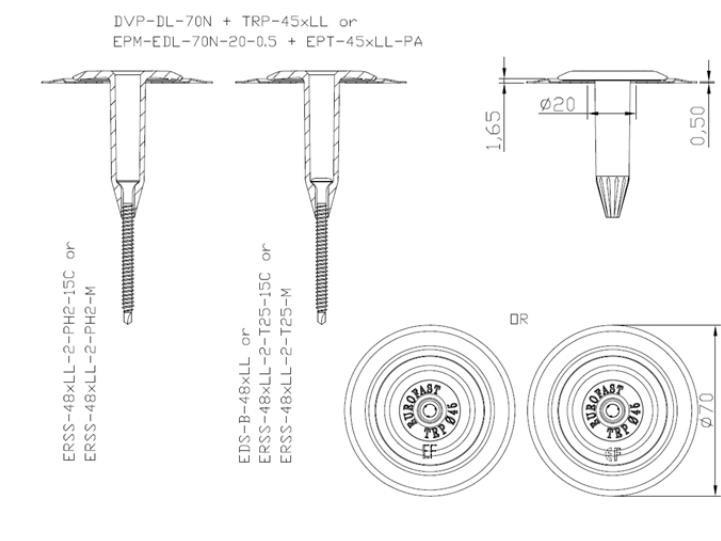
Annex B.25



Eurofast Flat Roof Fasteners

**EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)**

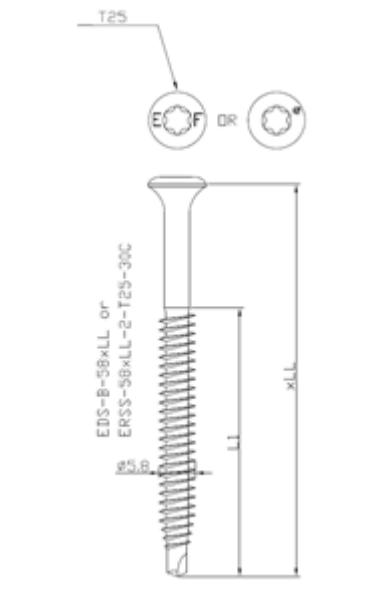
Annex B.26



Eurofast Flat Roof Fasteners

EDS-B-48xLL (ERSS-48xLL-2-PH2-15C or ERSS-48xLL-2-PH2-M)
(ERSS-48xLL-2-T25-15C or ERSS-48xLL-2-T25-M)

Annex B.27



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	Steel S320GD *					
t [mm]	0,70	0,75	0,80	0,88	1,00	1,25
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)	1,72	1,91	2,35	2,35	2,57	3,14

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	OSB/3		Chipboard	Plywood		Timber C24
t [mm]	18	21	25	19	18	21
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)	1,29	1,51	1,62	1,54	1,39	1,51

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 + 5 of UKAD 030351-00-0402)				
	DVP-EFB-51NS (EPM-B-51N-5.4-0.84)	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8	EPM-IT-80-6.8-0.8
	-	-	EPM-IT-80-6.8-0.8	EPM-IE-80-6.8-0.8
	-	-	EPM-IE-80-6.8-0.8	
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)	3,87		2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7007H (EPM-70H-6.0-0.7)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-7007N (EPM-70N-6.0-0.7)
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)	5,05	4,43	3,89	2,96	2,91

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex C.2

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

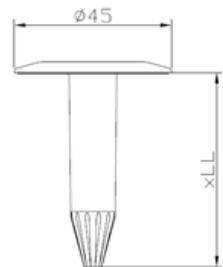
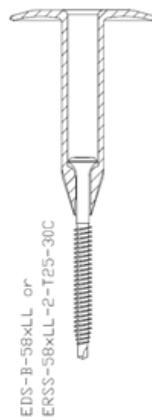
Screw:			
EDS-B-58xLL	(ERSS-58xLL-2-T25-30C)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	EPM-IE-80-6.8-0.8	
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010D	(EPM-70D-6.5-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-EF-7007N	(EPM-70N-6.0-0.7)		
DVP-EF-7010N	(EPM-70N-6.5-1.0)		
DVP-EF-8040D	(EPM-8040D-6.5-1.0)		
DVP-EF-8040N	(EPM-8040N-6.5-1.0)		
DVP-DF-8240D	(EPM-8240D-7.0-1.0)		
DVP-DF-8240H	(EPM-8240H-7.0-1.0)		
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)		
DVP-EFB-51NS	(EPM-B-51N-5.4-0.84)		
DVP-EF-51N	(EPM-51N-6.7-0.84)		
DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)		
EPM-IP-80-6.8-0.8			
EPM-IT-80-6.8-0.8			
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)		
TWP-8040xLL	(EPT-8040xLL-PA)		
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Steel S280		EN 10346	
Steel S320		EN 10346	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
Max. drilling capacity in steel substrate:		2 x 1,25 mm	
HUKAD type:		Raised Bugle HUKAD	
Recess:		TX25	
Fixing in steel substrate:		Minimum 20 mm of the screw fixed through the steel sheet	
Fixing in wooden and wood-based substrate:		Full thread through the substrate or minimum embedment depth	
Installation force of installation tool in:			
- steel substrate	15 kg		
- wooden and wood-based substrate:	30 kg		
Installation tool speed:	2000 - 2500 rpm		

Eurofast Flat Roof Fasteners

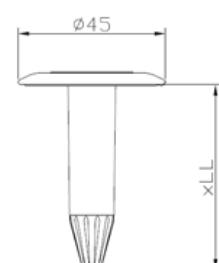
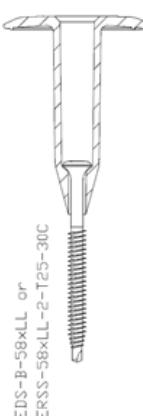
Annex C.3

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

BIO-45xLL or EPT-45xLL-BIO



TRP-45xLL or EPT-45xLL-PA

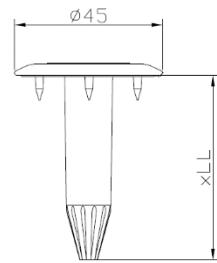
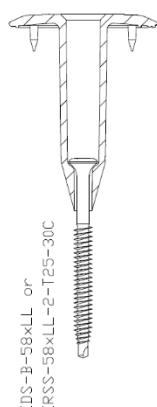


Eurofast Flat Roof Fasteners

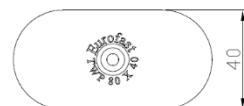
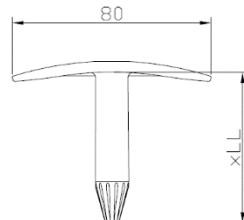
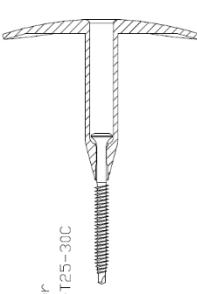
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.4

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

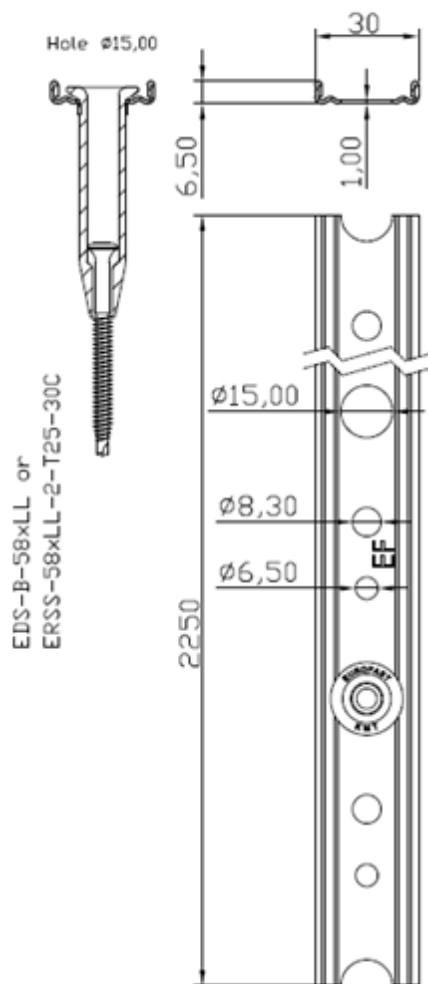


Eurofast Flat Roof Fasteners

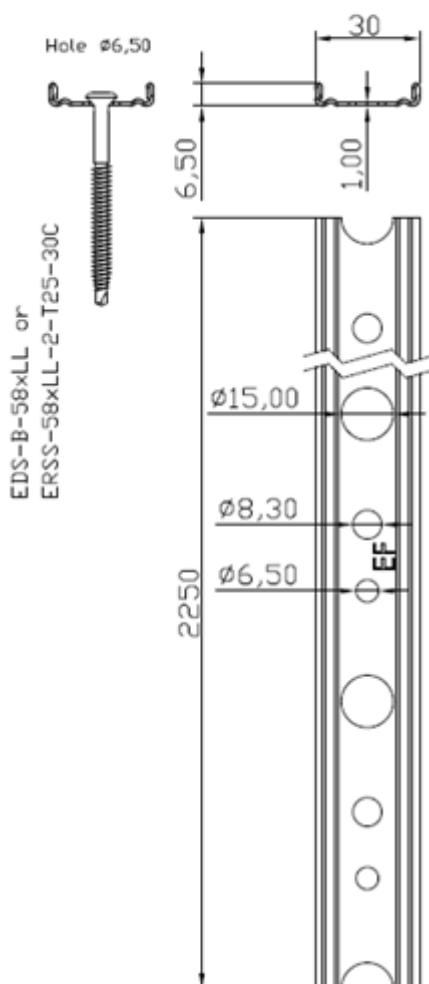
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

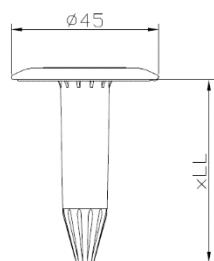
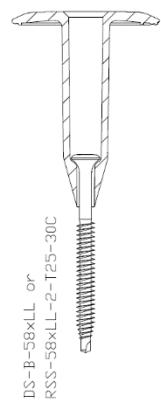


Eurofast Flat Roof Fasteners

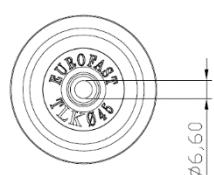
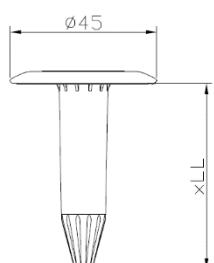
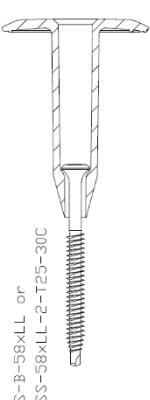
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.6

TLK-45xLL or EPT-45xLL-PP



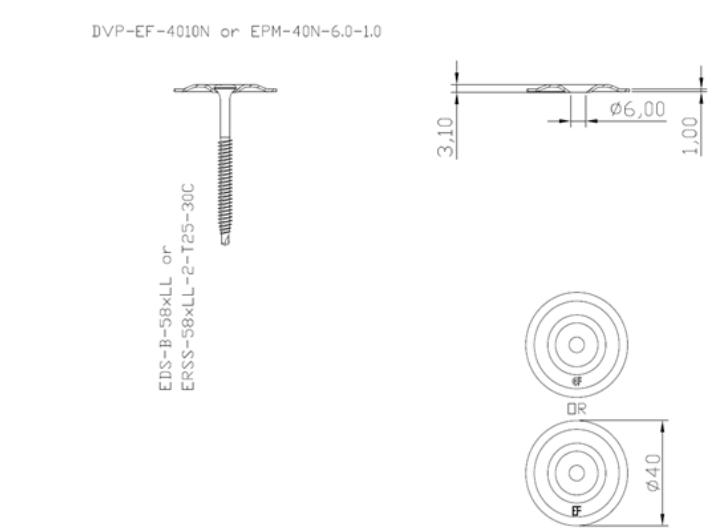
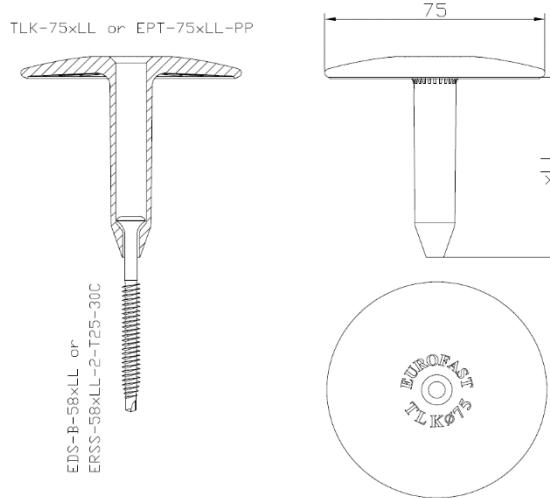
HTLK-45xLL or EPT-D-45xLL-PP



Eurofast Flat Roof Fasteners

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.7

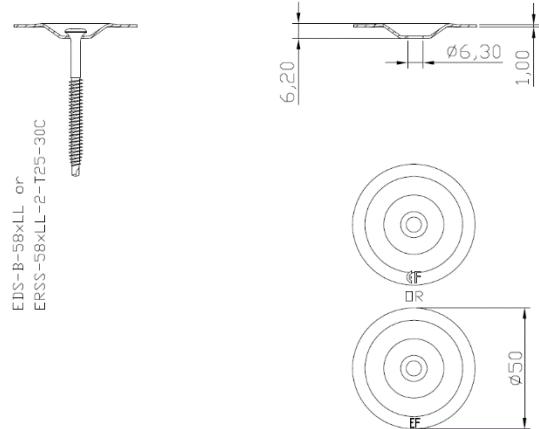


Eurofast Flat Roof Fasteners

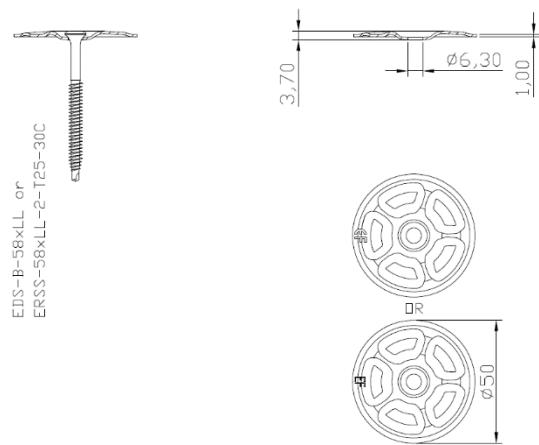
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.8

DVP-EF-5010D or EPM-50D-6,3-1,0



DVP-EF-5010N or EPM-50N-6,3-1,0

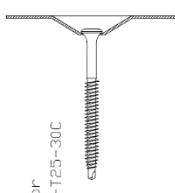


Eurofast Flat Roof Fasteners

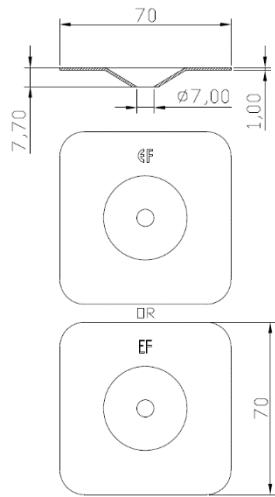
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.9

DVP-DF-7070D or EPM-7070D-7,0-1,0



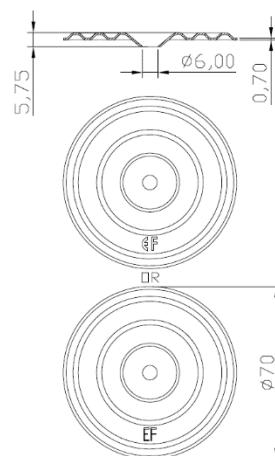
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



DVP-EF-7007D or EPM-70D-6,0-0,7



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

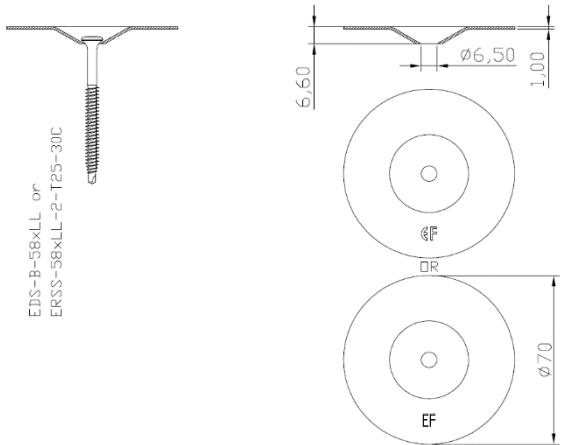


Eurofast Flat Roof Fasteners

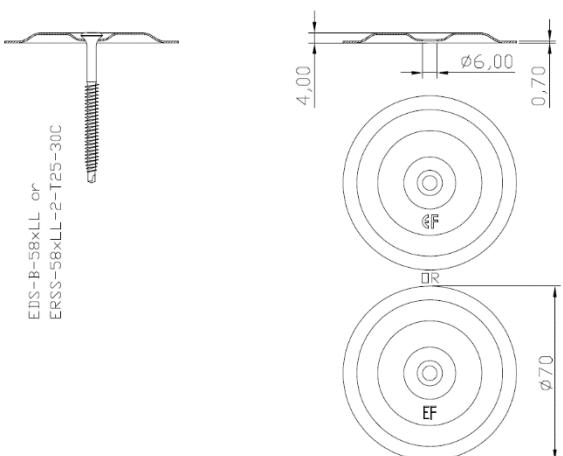
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.10

DVP-EF-7010D or EPM-70D-6.5-1.0



DVP-EF-7007H or EPM-70H-6,0-0,7

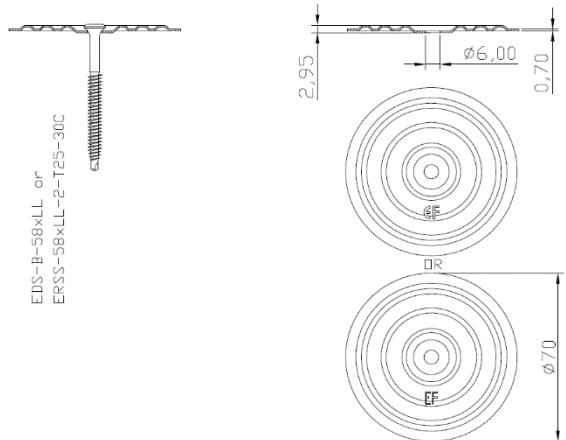


Eurofast Flat Roof Fasteners

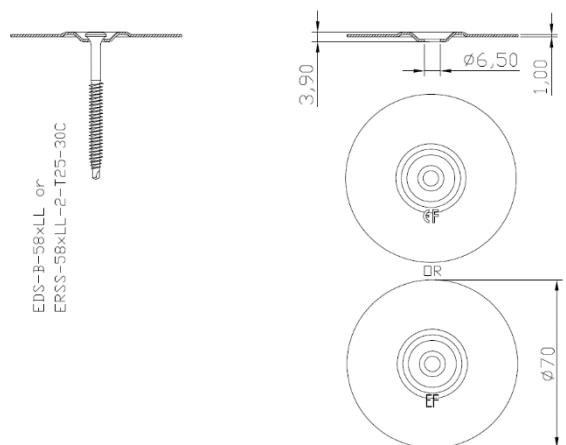
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.11

DVP-EF-7007N or EPM-70N-6,0-0,7



DVP-EF-7010N or EPM-70N-6,5-1,0

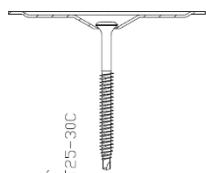


Eurofast Flat Roof Fasteners

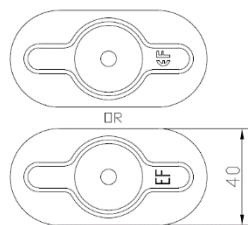
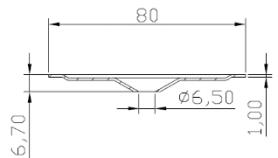
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.12

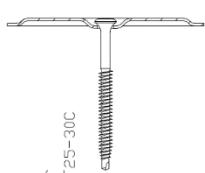
DVP-EF-8040D or EPM-8040D-6,5-1,0



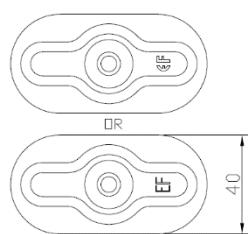
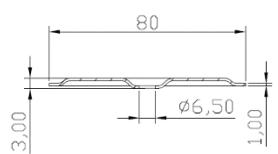
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



DVP-EF-8040N or EPM-8040N-6,5-1,0



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

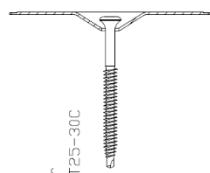


Eurofast Flat Roof Fasteners

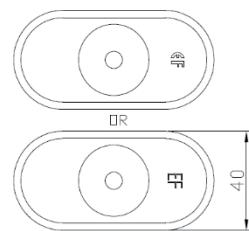
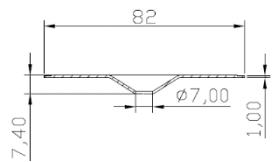
Annex C.13

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

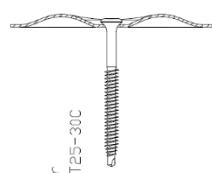
DVP-DF-8240D or EPM-8240D-7.00-1.0



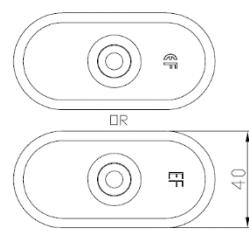
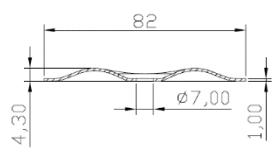
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



DVP-DF-8240H or EPM-8240H-7.0-1.0



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

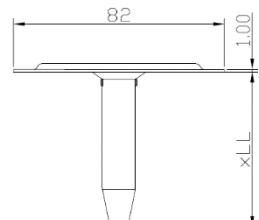
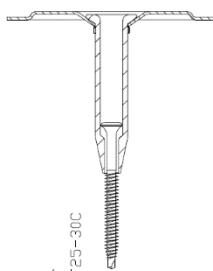


Eurofast Flat Roof Fasteners

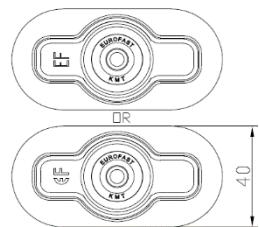
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.14

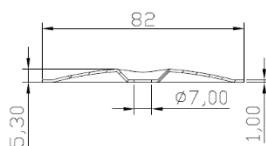
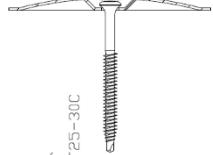
DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA



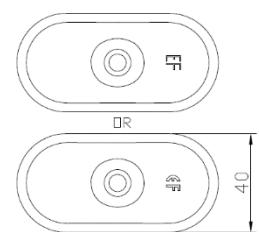
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



DVP-DF-8240XH or EPM-8240XH-7.0-1.0



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

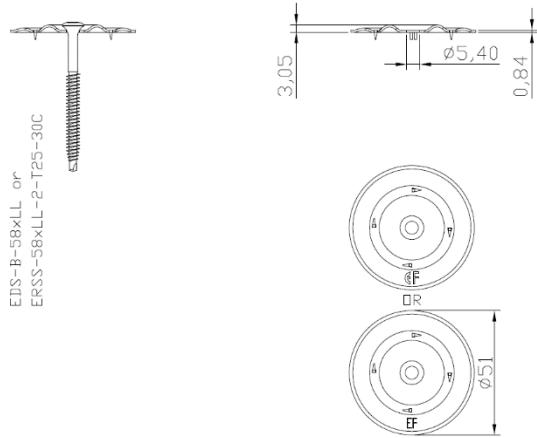


Eurofast Flat Roof Fasteners

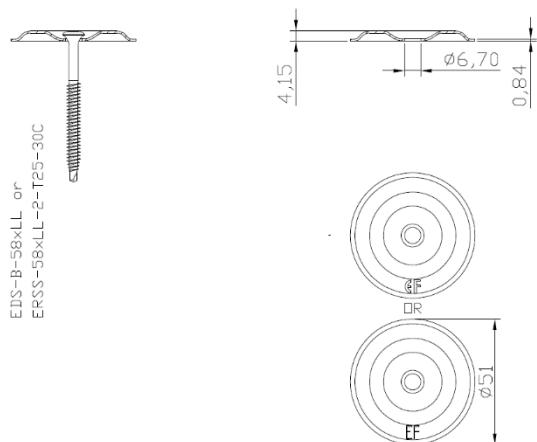
Annex C.15

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

DVP-EFB-51NS or EPM-B-51N-5,4-0,84



DVP-EF-51N or EPM-51N-6,7-0,84

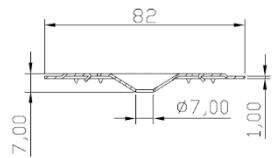
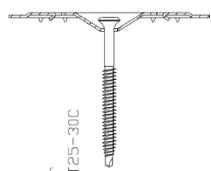


Eurofast Flat Roof Fasteners

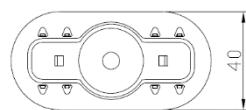
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.16

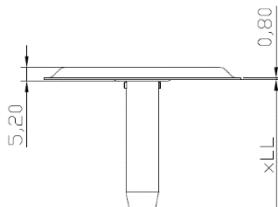
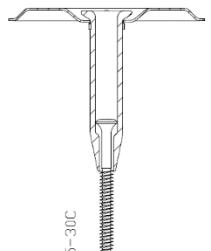
DVP-DFB-8240D or EPM-B-8240D-7.0-1.0



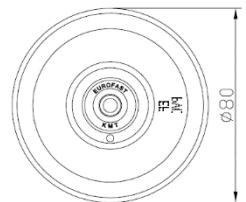
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



EPM-T-IP-80-13.6-0.8 + KMT-15xLL or
EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

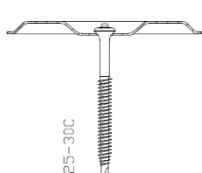


Eurofast Flat Roof Fasteners

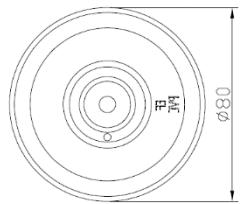
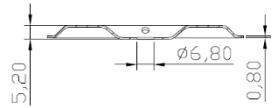
Annex C.17

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

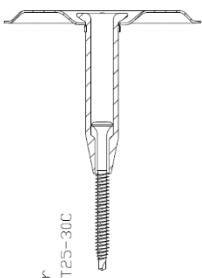
EPM-IP-80-6.8-0.8



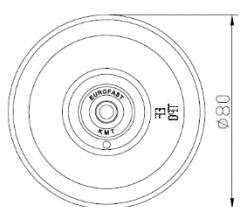
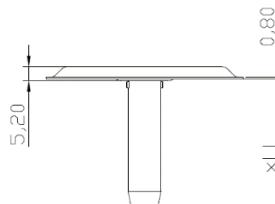
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



EPM-T-IT-80-13.6-0.8 + KMT-15xLL or
EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



Eurofast Flat Roof Fasteners

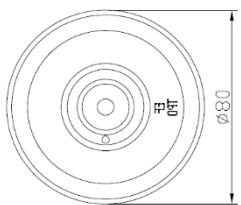
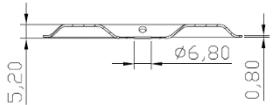
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.18

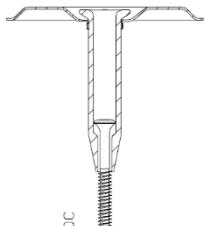
EPM-IT-80-6,8-0,8



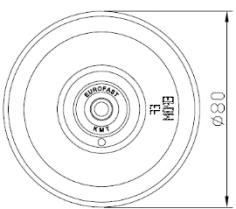
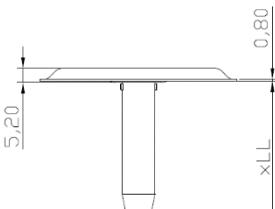
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

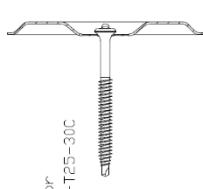


Eurofast Flat Roof Fasteners

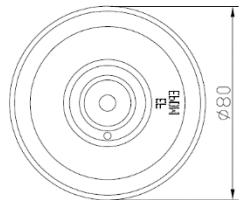
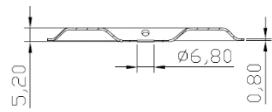
EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.19

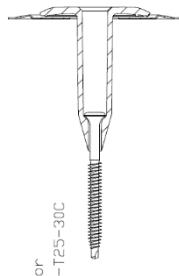
EPM-IE-80-6,8-0,8



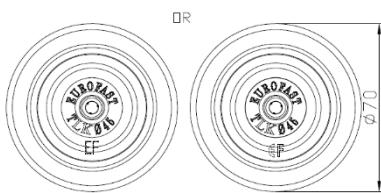
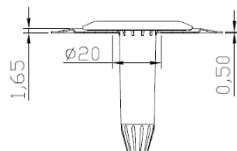
EDS-B-58xLL or
ERSS-58xLL-2-T25-30C



DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



EDS-B-58xLL or
ERSS-58xLL-2-T25-30C

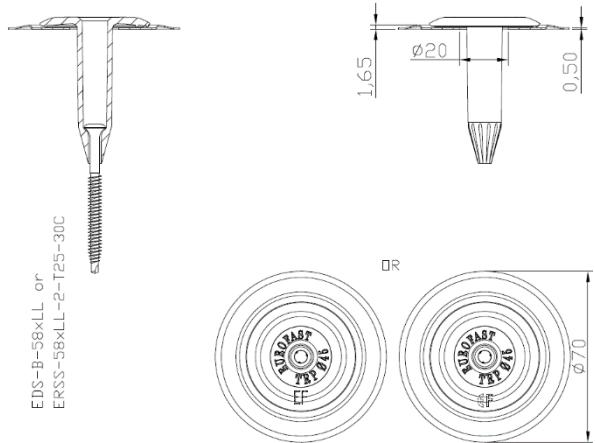


Eurofast Flat Roof Fasteners

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.20

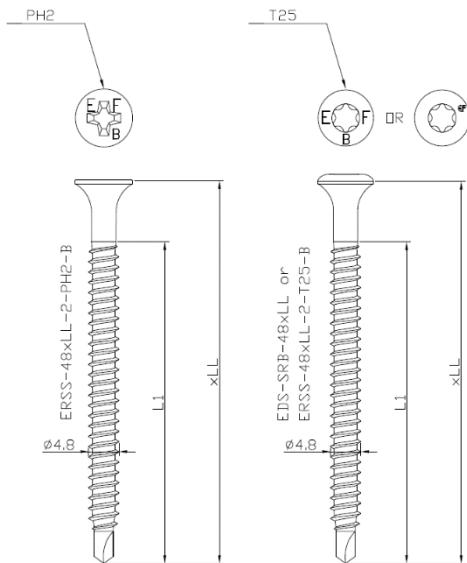
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0.5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EDS-B-58xLL (ERSS-58xLL-2-T25-30C)

Annex C.21



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)									
t [mm]	Steel S320GD*						Aluminium		
	0,70	0,75	0,80	0,88	1,00	1,25	0,80	0,85	1,00
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)	1,15	1,17	1,31	1,31	1,36	2,23	0,71	0,75	1,02
ERSS-48xLL-2-PH2-B	1,15	1,17	1,31	1,31	1,36	2,23	0,71	0,75	1,02

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
t [mm]	OSB/3			Chipboard	Plywood	Timber C24
	18	21	25	19	18	21
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)	1,12	1,12	1,30	1,16	1,01	1,07
ERSS-48xLL-2-PH2-B	1,12	1,12	1,30	1,16	1,01	1,07

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)	DVP-EFB-51NS (EPM-B-51N-5.4-0.84)	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	DVP-EF-7005N (EPM-70N-5.1-0.5)	DVP-EF-7007H (EPM-70H-6.0-0.7)	-	-	EPM-IT-80-6.8-0.8
	-	DVP-EF-7007N (EPM-70N-6.0-0.7)	-	-	EPM-IE-80-6.8-0.8
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)	2,36	2,91	3,87	2,93	2,92
ERSS-48xLL-2-PH2-B	2,36	2,91	3,87	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)	2,64	1,68	1,78
ERSS-48xLL-2-PH2-B	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)
	DVP-EF-5010DFR (EPM-50D-4.85-1.0)	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)
	DVP-EF-7070D (EPM-7070D-4.85-1.0)	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
	DVP-EF-7010DFR (EPM-70D-4.85-1.0)	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
	DVP-EF-8240D (EPM-8240D-4.85-1.0)	-	-	-	-
	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	-	-	-	-
	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	-	-	-	-
	DVP-EFZK-8240D (EPM-ZK-8240D-4.85-1.0)	-	-	-	-
	DVP-EFF-8040D (EPM-8040D-4.85-1.0)	-	-	-	-
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)	5,18	5,05	4,43	3,89	2,96
ERSS-48xLL-2-PH2-B	5,18	5,05	4,43	3,89	2,96

Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

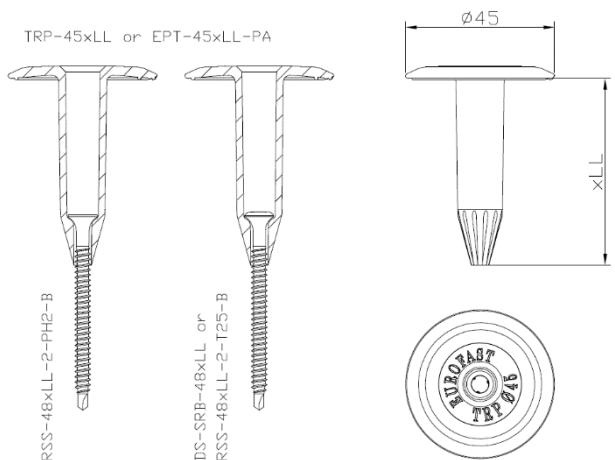
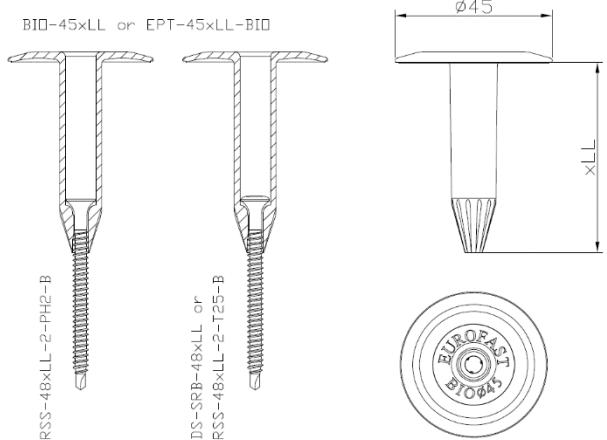
Annex D.2

Screw:	EDS-SRB-48xLL ERSS-48xLL-2-PH2-B		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240H	(EPM-8240H-7.0-1.0)
DVP-EF-5010DFR	(EPM-50D-4.85-1.0)	DVP-EF-8240XH	(EPM-8240XH-4.85-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-EFB-51NS	(EPM-B-51N-5.4-0.84)
DVP-EF-7070D	(EPM-7070D-4.85-1.0)	DVP-EF-51N	(EPM-51N-6.7-0.84)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	DVP-EFB-8240D	(EPM-B-8240D-4.85-1.0)
DVP-EF-7010DFR	(EPM-70D-4.85-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-EF-7005D	(EPM-70D-5.0-0.5)	DVP-EFK-8240D	(EPM-ZK-8240D-4.85-1.0)
DVP-EF-7007D	(EPM-70D-6.0-0.7)	DVP-EFF-8040D	(EPM-8040D-4.85-1.0)
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7005N	(EPM-70N-5.1-0.5)	EPM-IE-80-6.8-0.8	
DVP-EF-7007N	(EPM-70N-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8240D	(EPM-8240D-4.85-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
BTRP-45xLL	(EPT-B-45xLL-PA)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TWP-8040xLL	(EPT-8040xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Steel S280		EN 10346	
Steel S320		EN 10346	
Aluminium	$R_m \geq 195 \text{ N/mm}^2$	EN 485	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class $\geq C24$	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
Max. drilling capacity in steel substrate:		2x1,25 mm	
HUKAD type:		Bugle HUKAD / Raised Bugle HUKAD	
Recess:		PH2 / TX25	
Fixing in steel substrate:		Minimum 30 mm of the screw fixed through the steel sheet	
Fixing in aluminium substrate:		Minimum 30 mm of the screw fixed through the aluminium sheet	
Fixing in wooden and wood-based substrate:		Full thread through the substrate or minimum embedment depth	
Installation force of installation tool in:			
- steel and aluminium substrate	25 kg		
- wooden and wood-based substrate:	35 kg		
Installation tool speed:	1500 - 2500 rpm		

Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

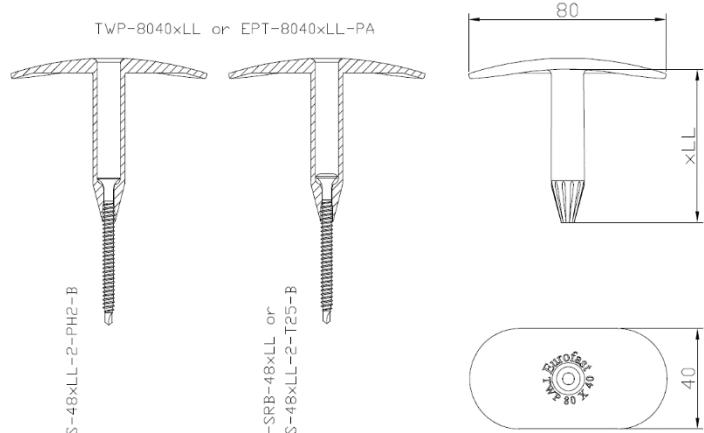
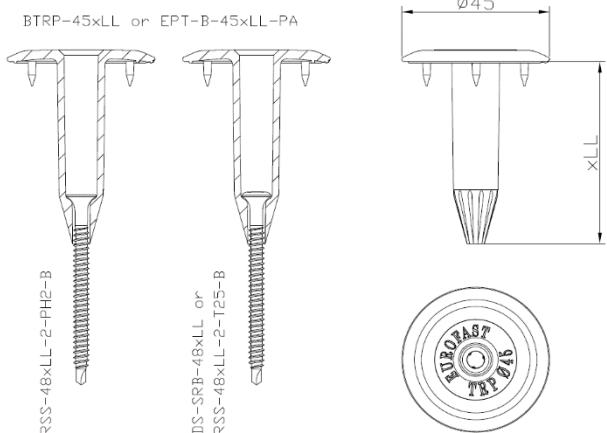
Annex D.3



Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.4



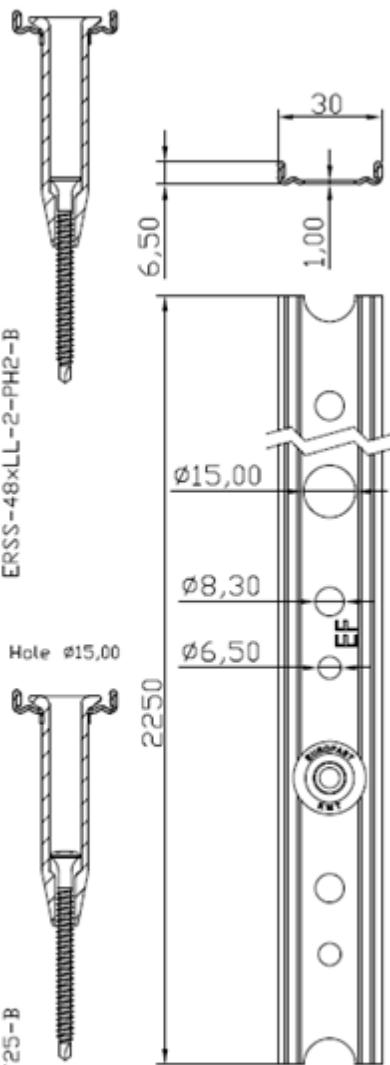
Eurofast Flat Roof Fasteners

**EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)**

Annex D.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA

Hole Ø15,00



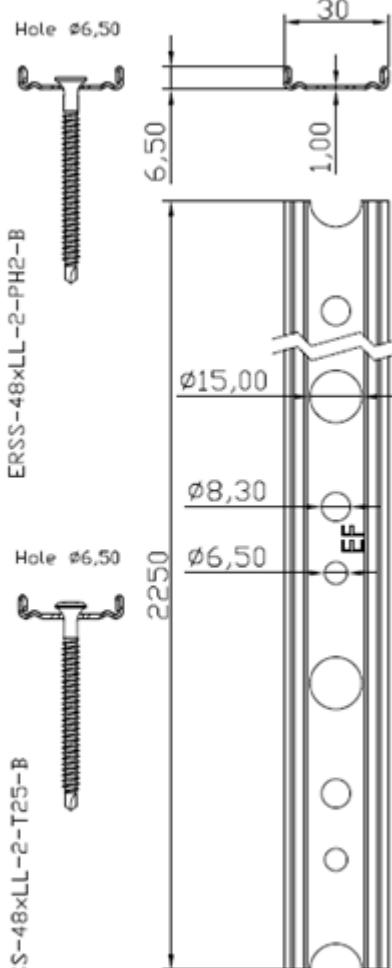
EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0



ERSS-48xLL-2-PH2-B



EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B

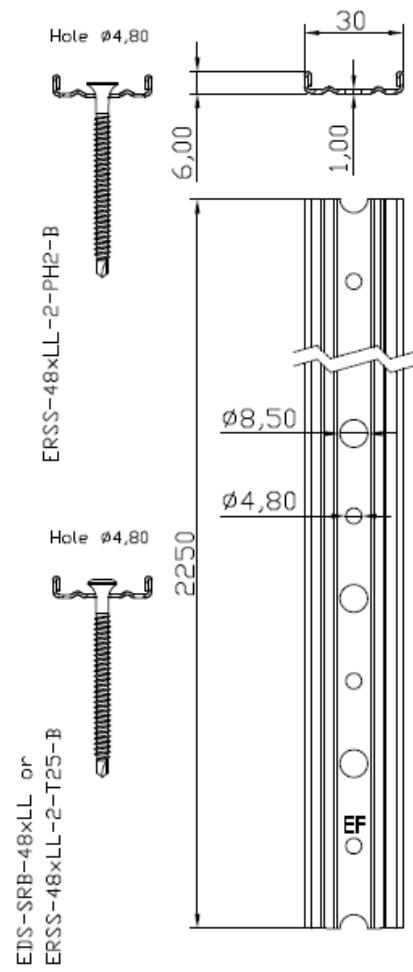


Eurofast Flat Roof Fasteners

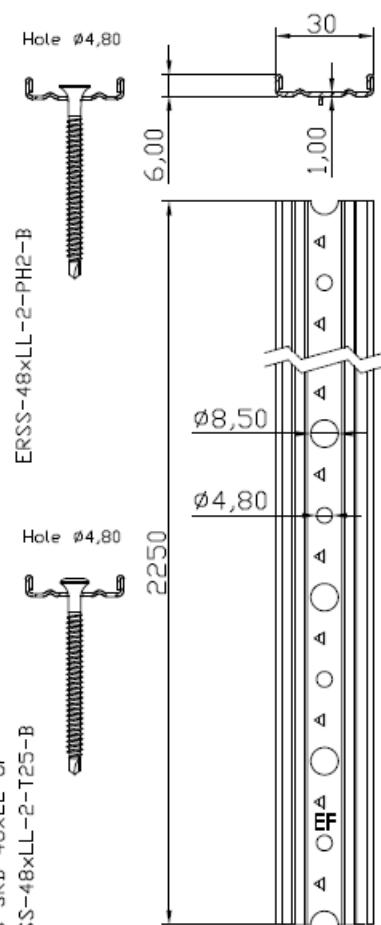
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.6

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

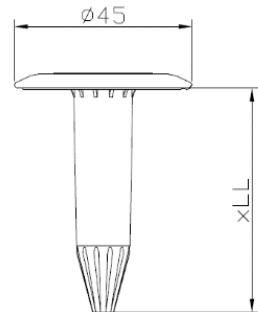
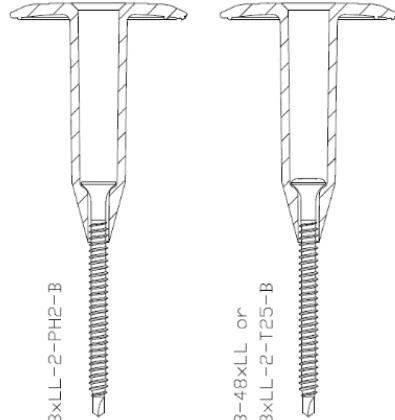


Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.7

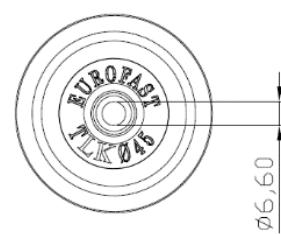
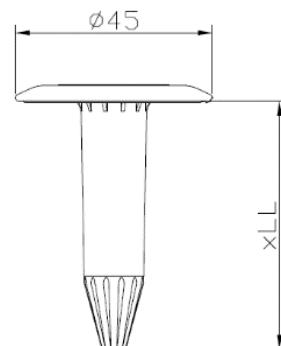
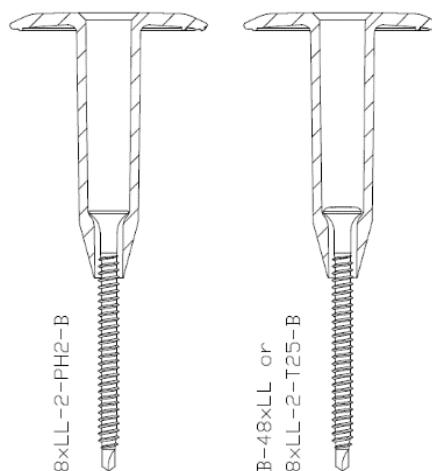
TLK-45xLL or EPT-45xLL-PP



HTLK-45xLL or EPT-0-45xLL-PP

ERSS-48xLL-2-PH2-B

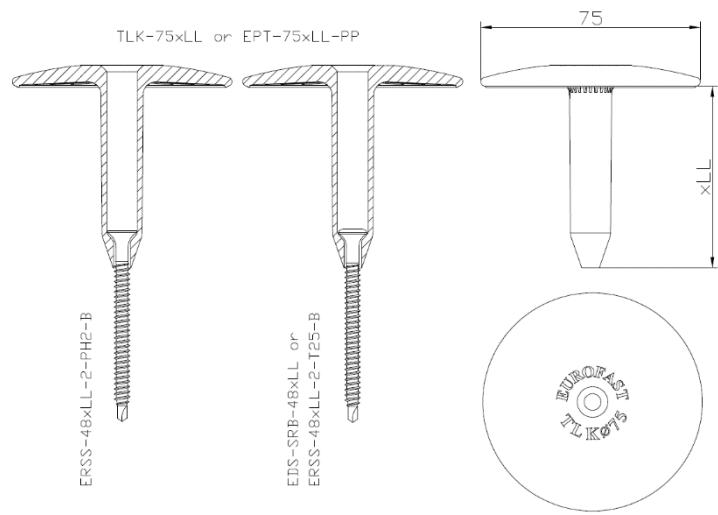
EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B



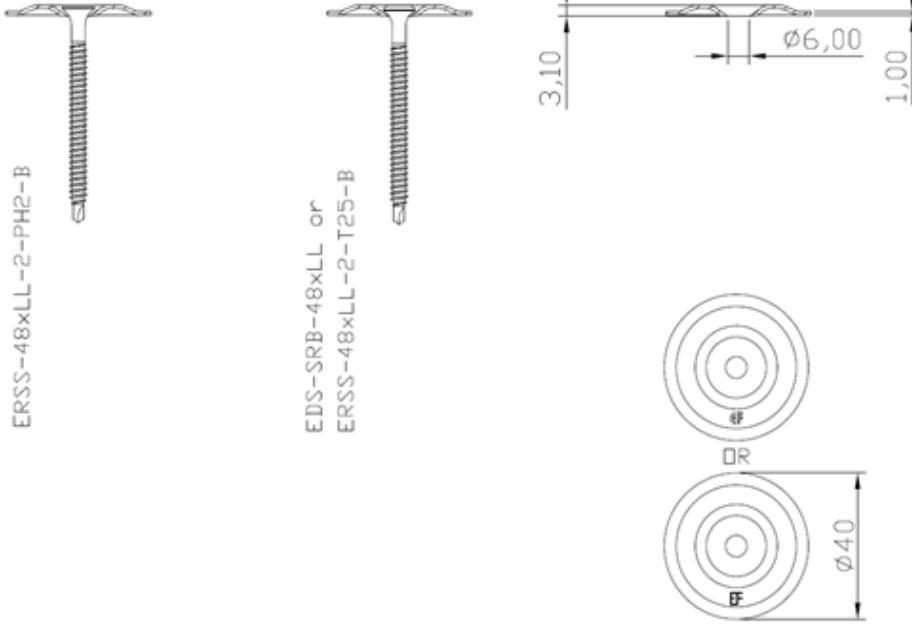
Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.8



DVP-EF-4010N or EPM-40N-6.0-1.0

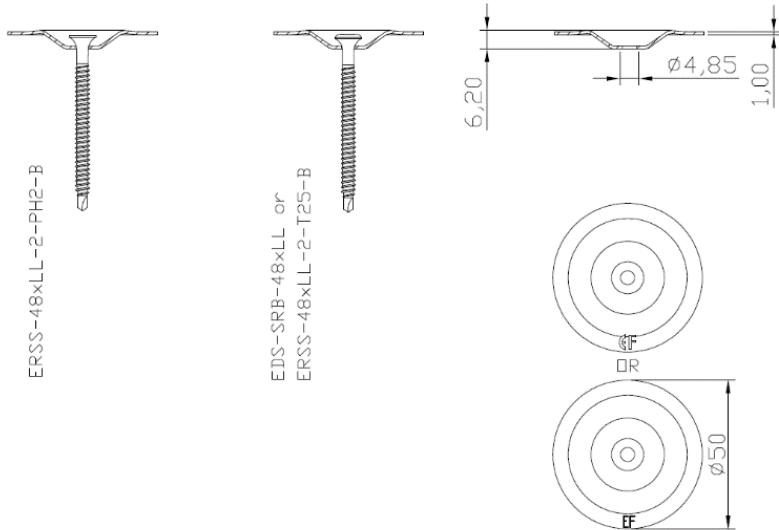


Eurofast Flat Roof Fasteners

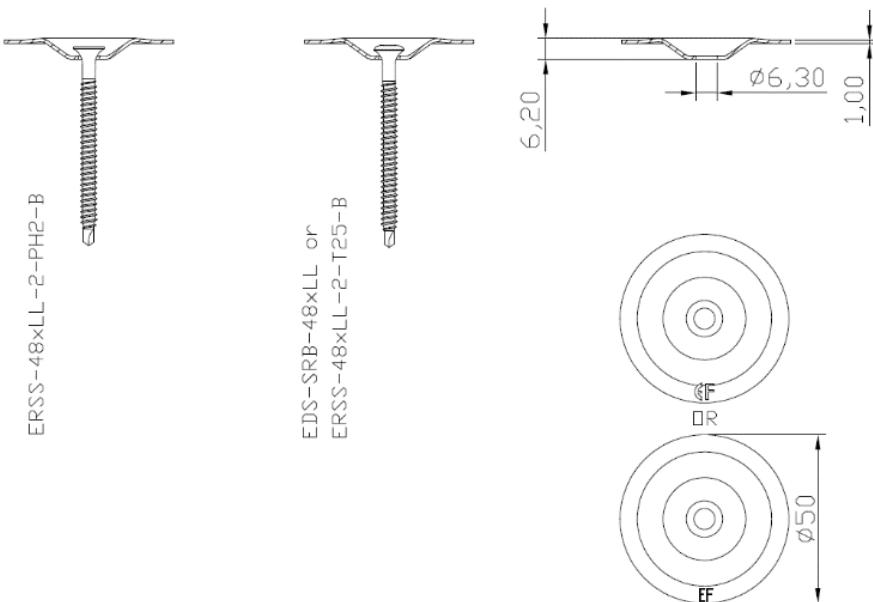
**EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)**

Annex D.9

DVP-EF-5010DFR or EPM-50D-4.85-1.0



DVP-EF-5010D or EPM-50D-6.3-1.0

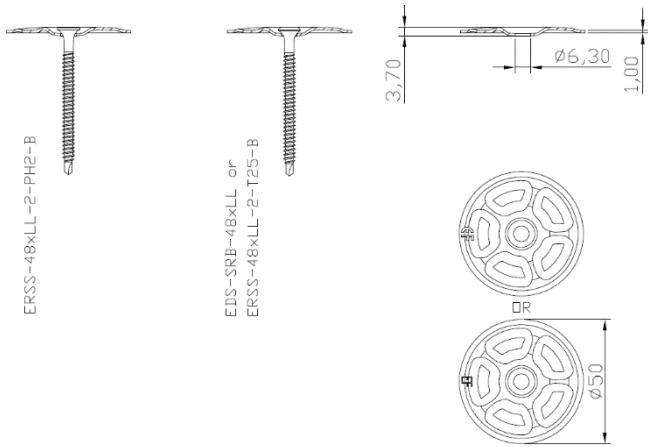


Eurofast Flat Roof Fasteners

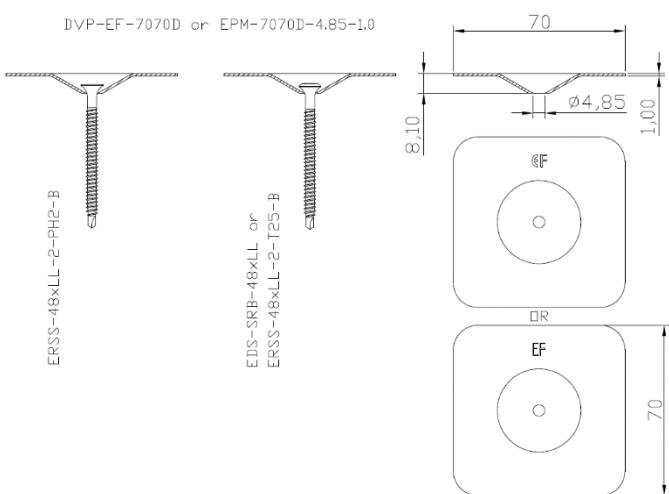
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.10

DVP-EF-5010N or EPM-50N-6,3-1,0



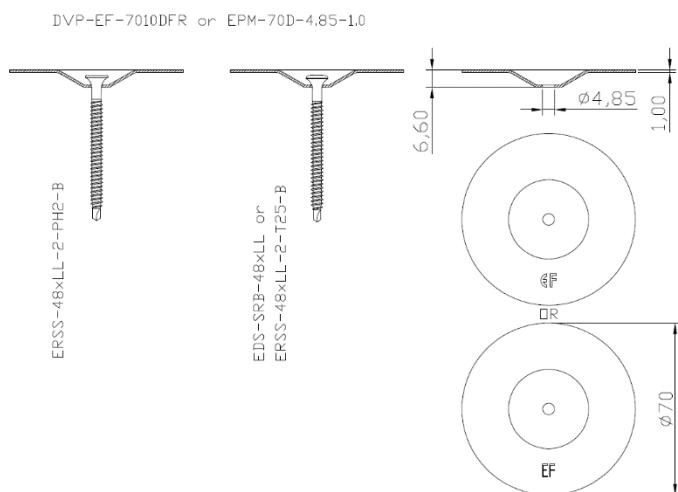
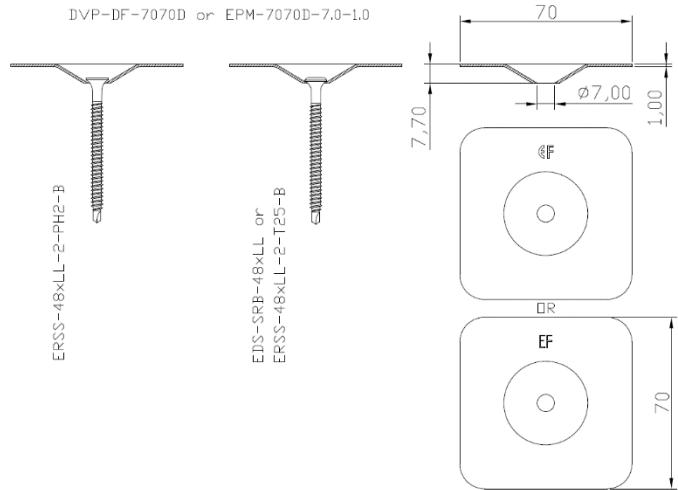
DVP-EF-7070D or EPM-7070D-4,85-1,0



Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.11

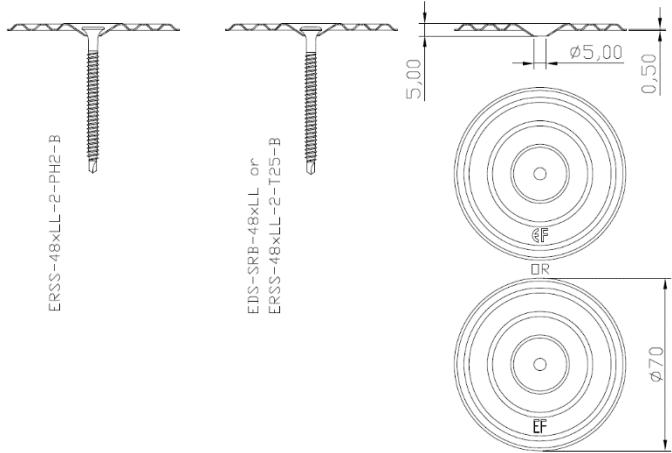


Eurofast Flat Roof Fasteners

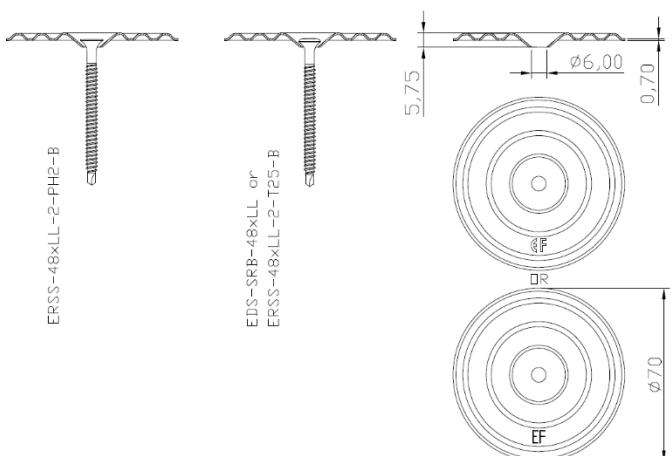
**EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)**

Annex D.12

DVP-EF-7005D or EPM-70D-5.0-0.5



DVP-EF-7007D or EPM-70D-6.0-0.7

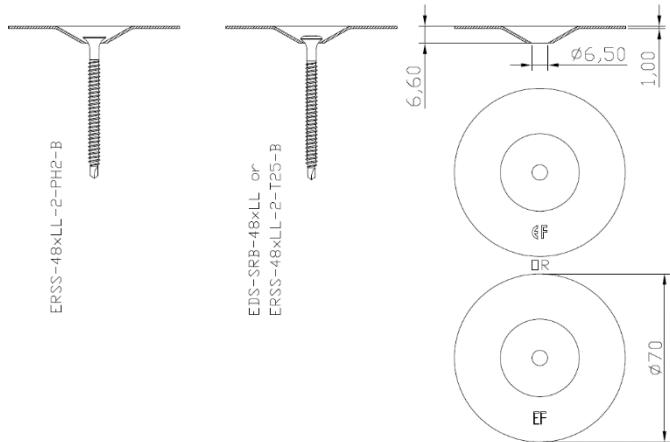


Eurofast Flat Roof Fasteners

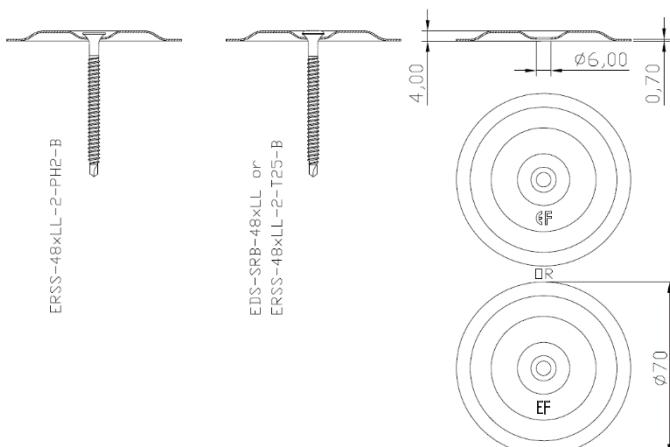
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.13

DVP-EF-7010D or EPM-70D-6.5-10



DVP-EF-7007H or EPM-70H-6.0-0.7

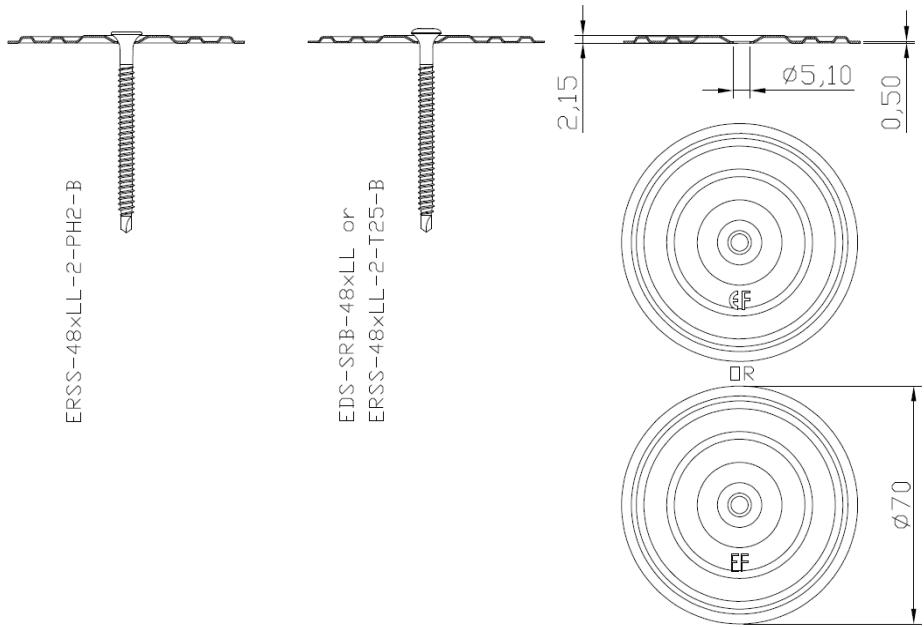


Eurofast Flat Roof Fasteners

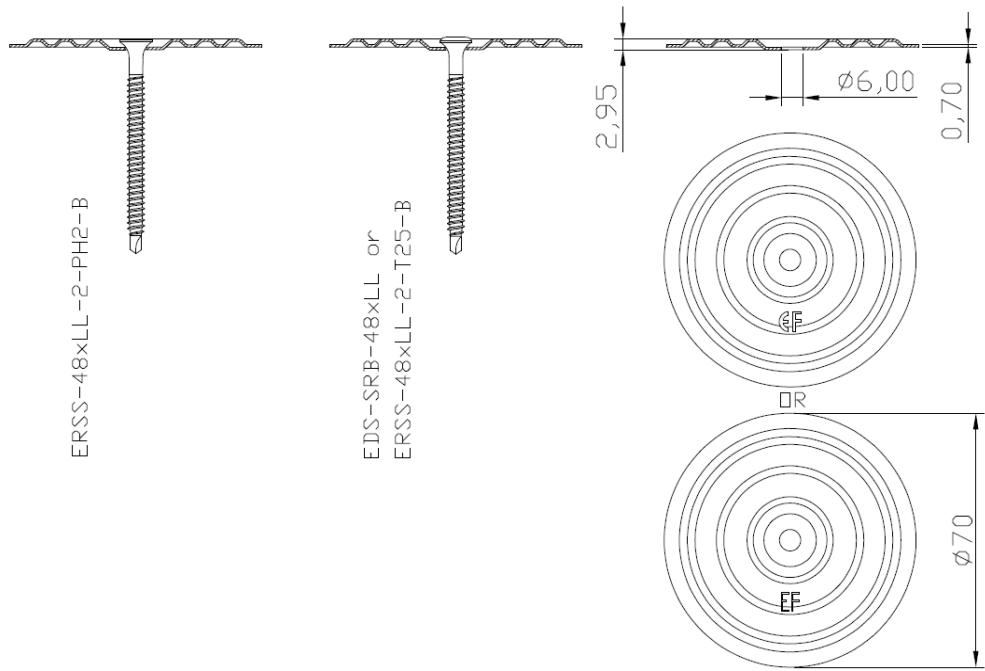
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.14

DVP-EF-7005N or EPM-70N-5.1-0.5



DVP-EF-7007N or EPM-70N-6.0-0.7

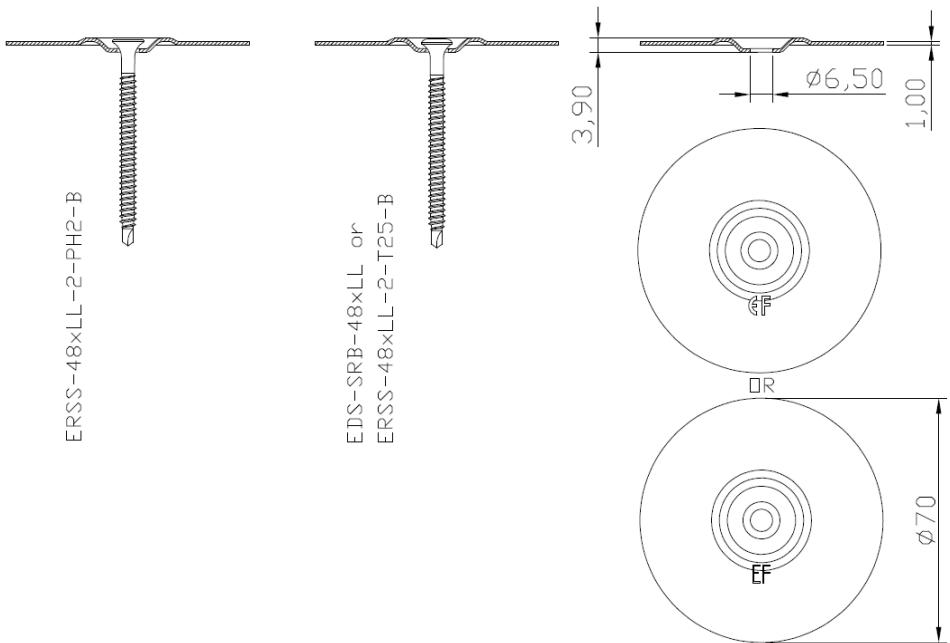


Eurofast Flat Roof Fasteners

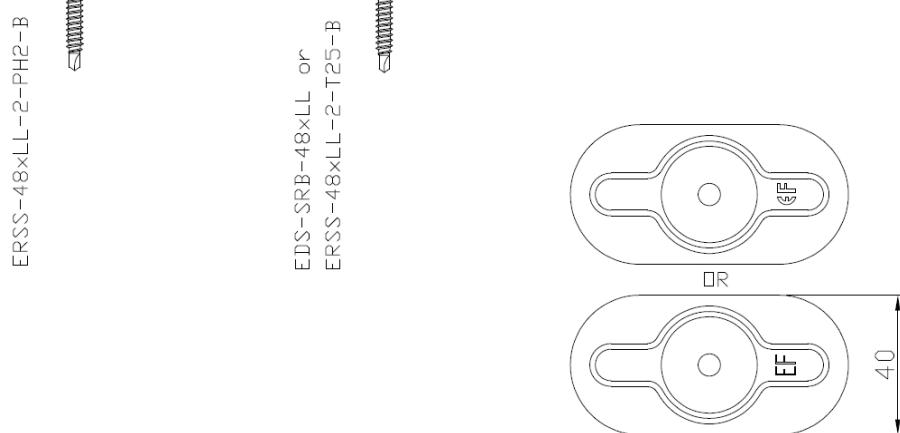
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.15

DVP-EF-7010N or EPM-70N-6.5-1.0



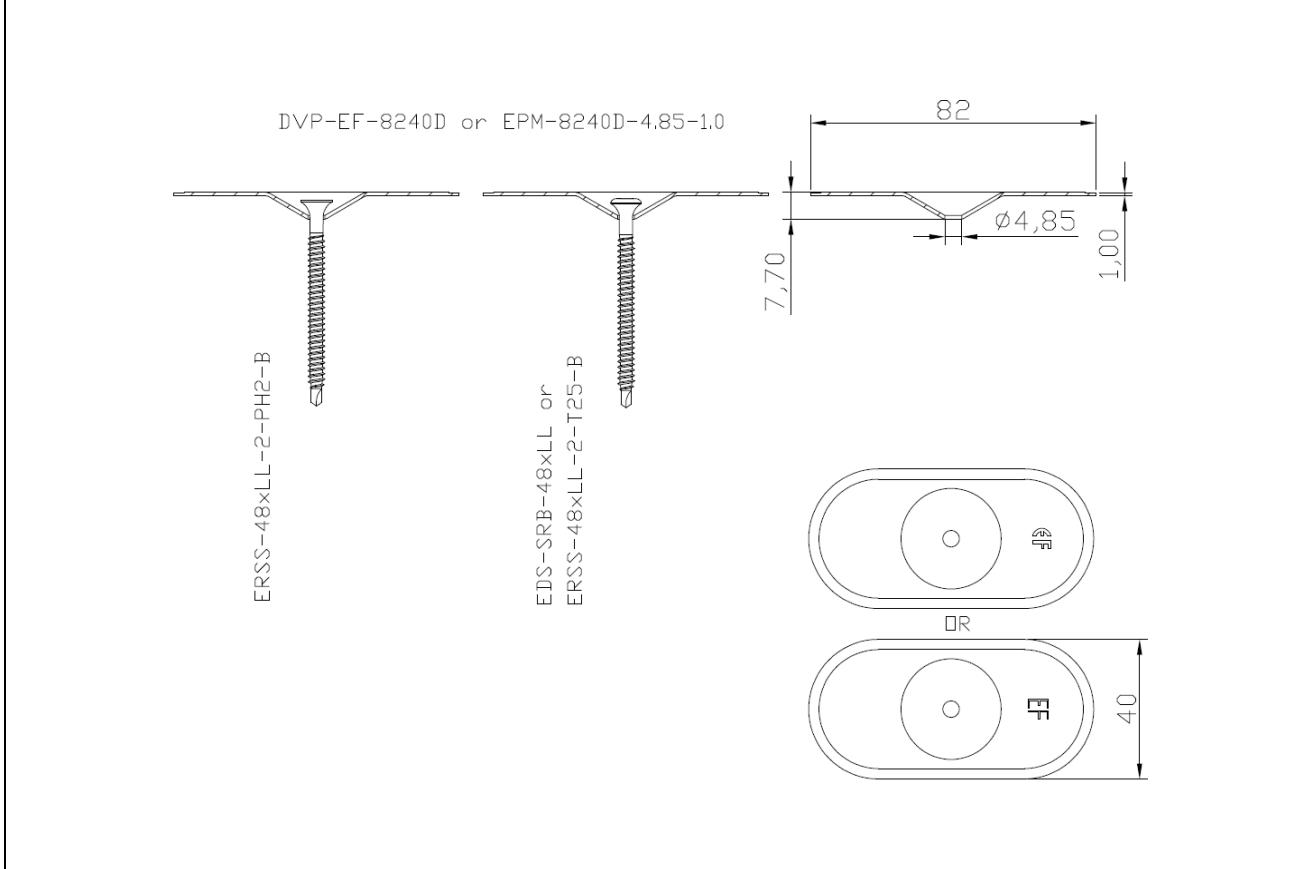
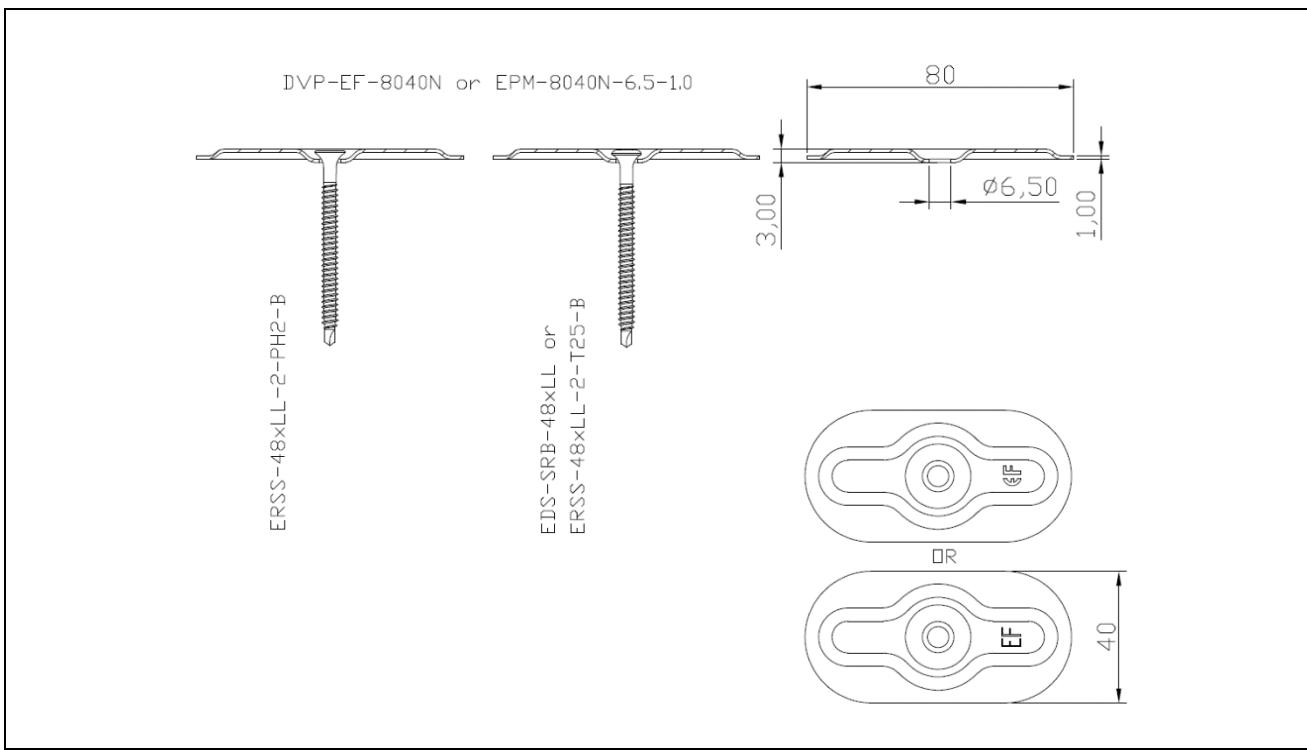
DVP-EF-8040D or EPM-8040D-6.5-1.0



Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

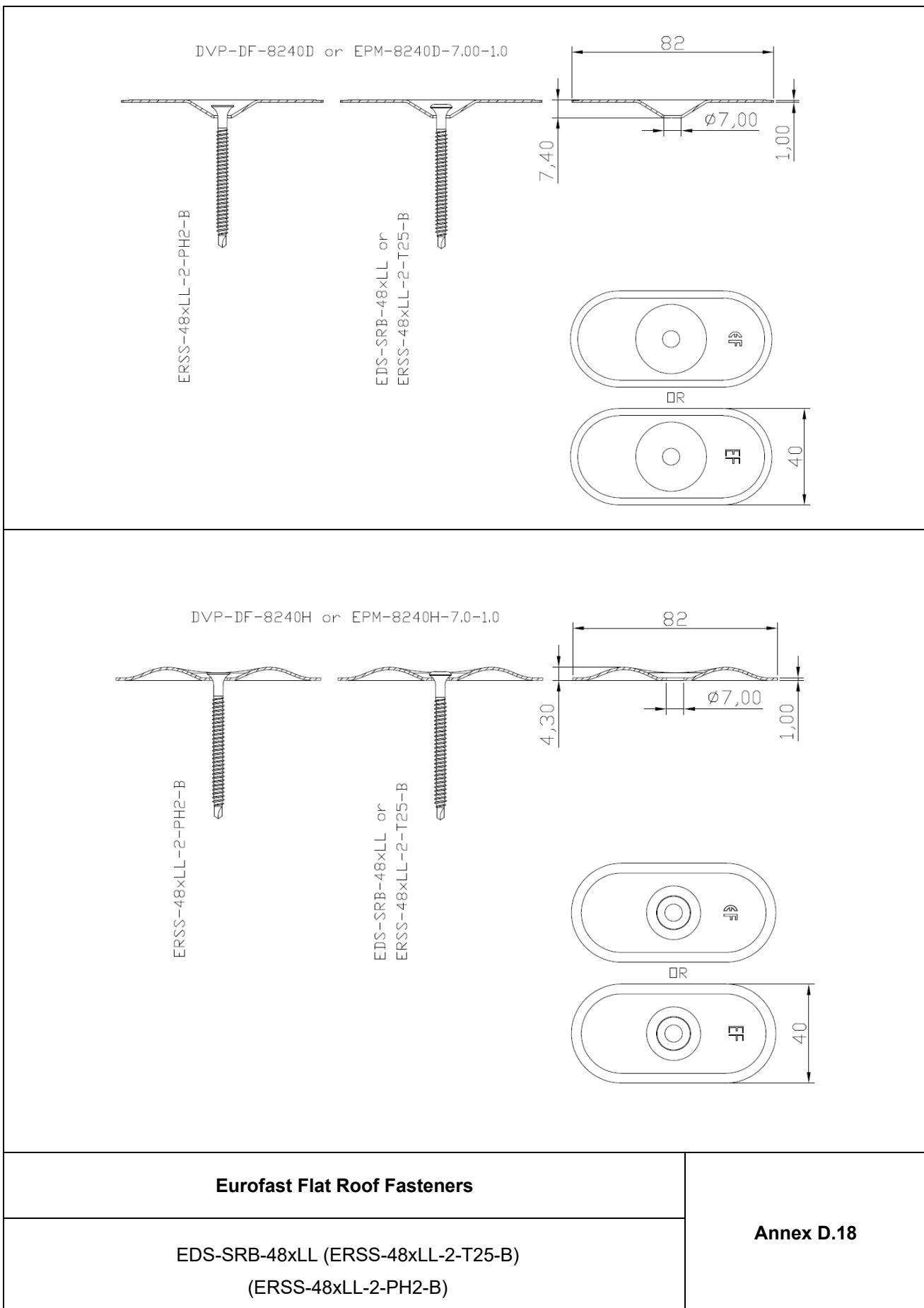
Annex D.16

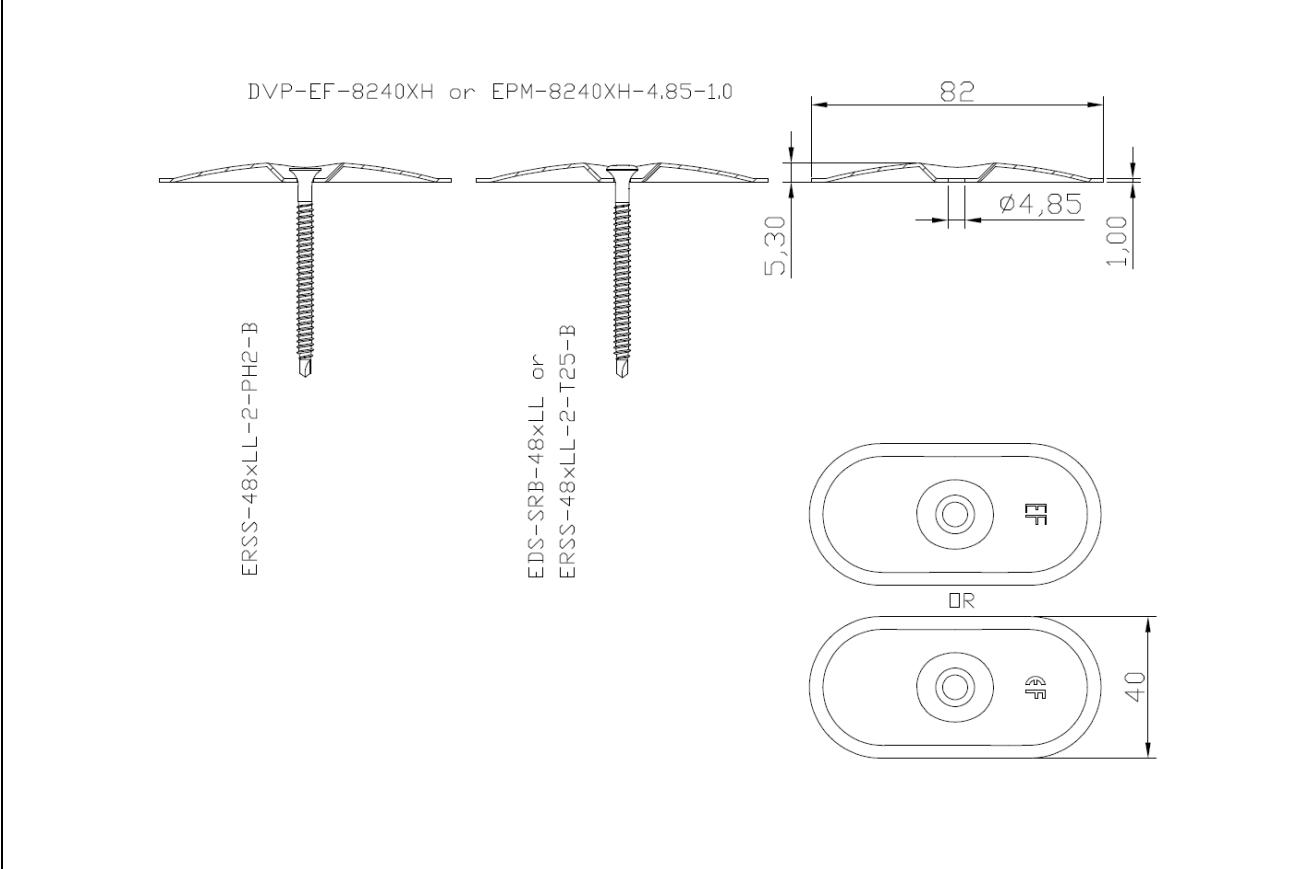
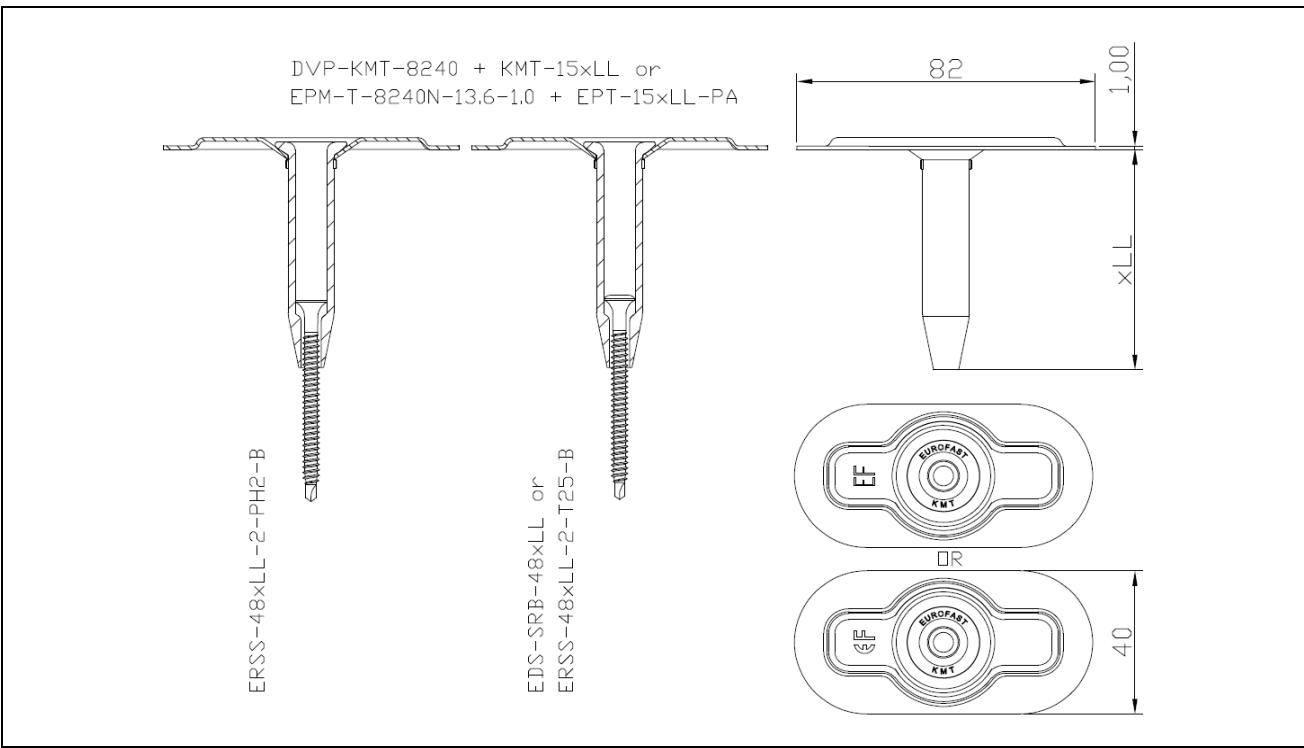


Eurofast Flat Roof Fasteners

**EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)**

Annex D.17



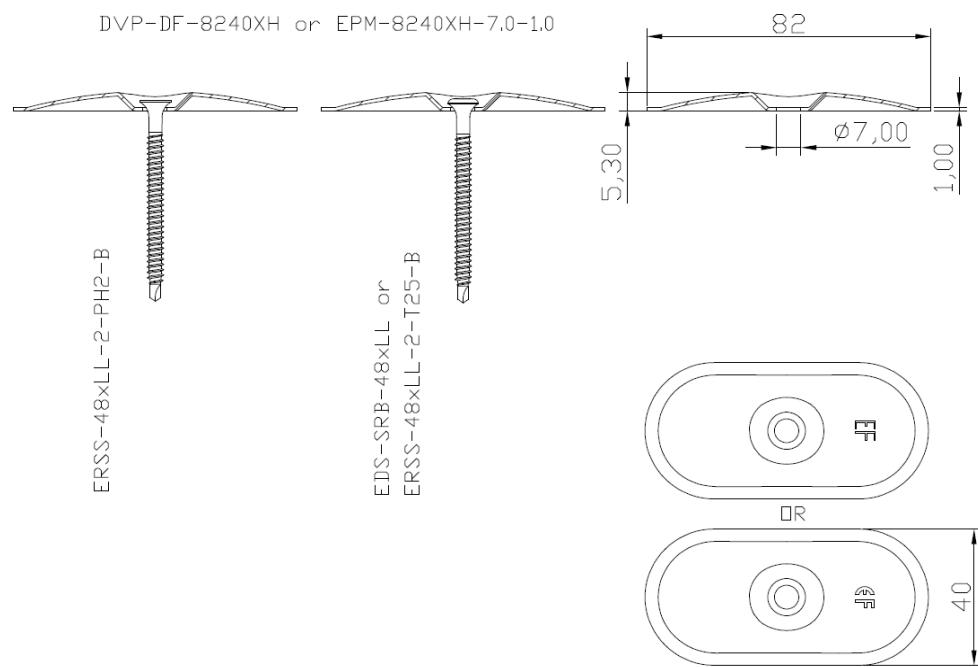


Eurofast Flat Roof Fasteners

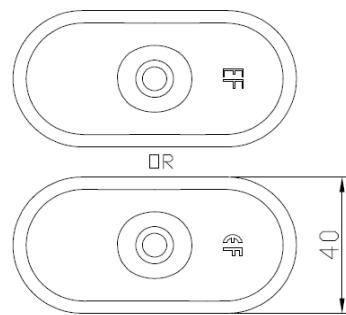
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.19

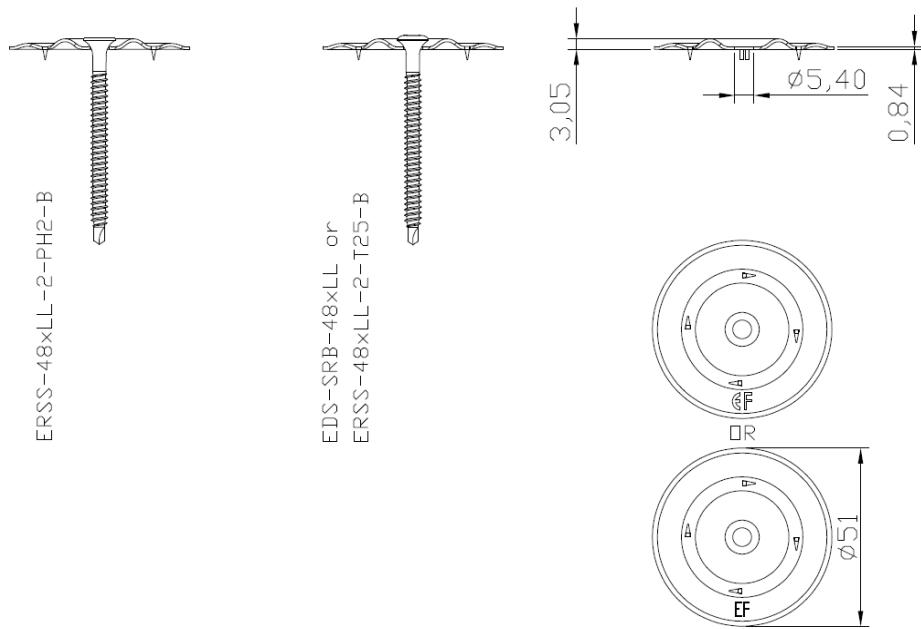
DVP-DF-8240XH or EPM-8240XH-7,0-1,0



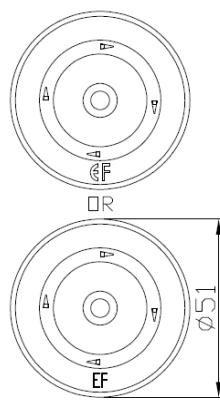
EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B



DVP-EFB-51NS or EPM-B-51N-5,4-0,84



EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B

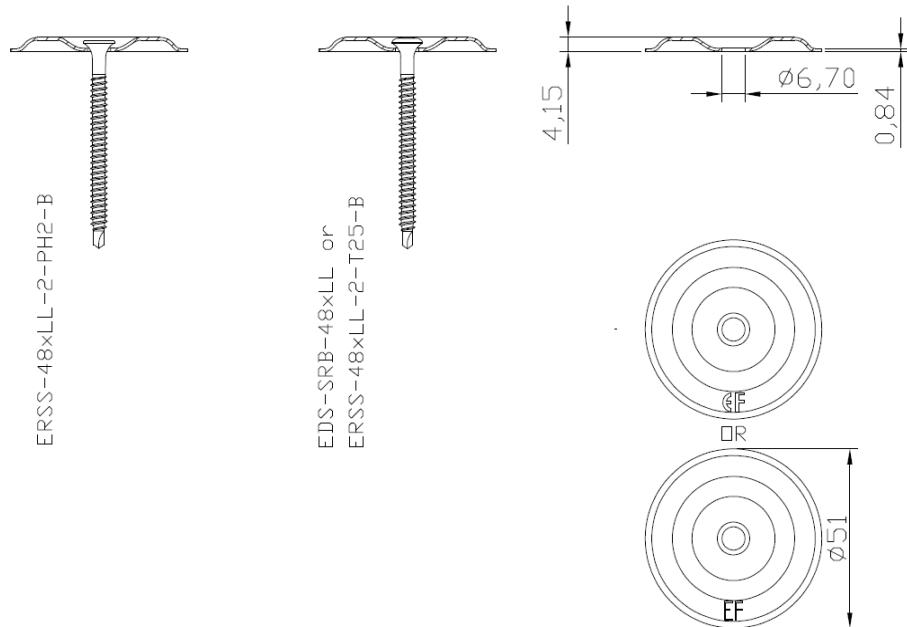


Eurofast Flat Roof Fasteners

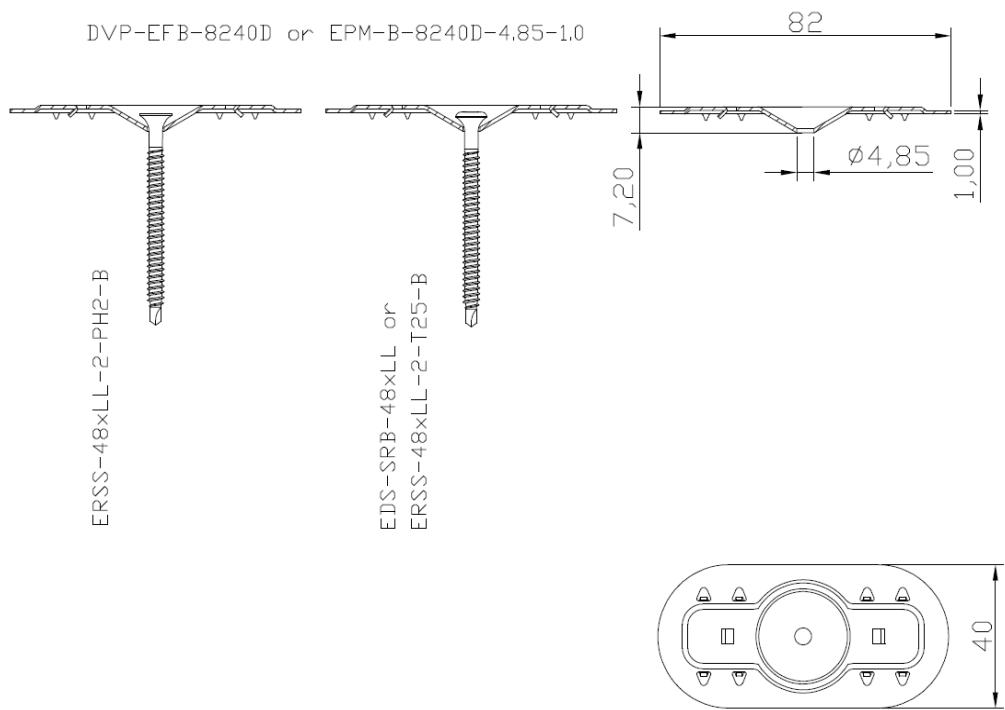
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.20

DVP-EF-51N or EPM-51N-6,7-0,84



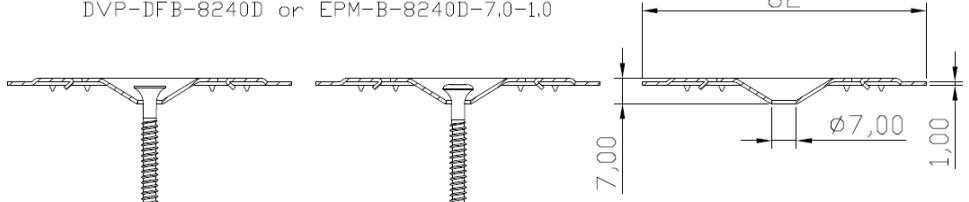
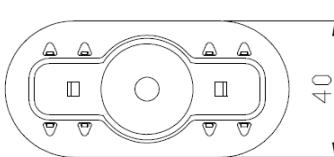
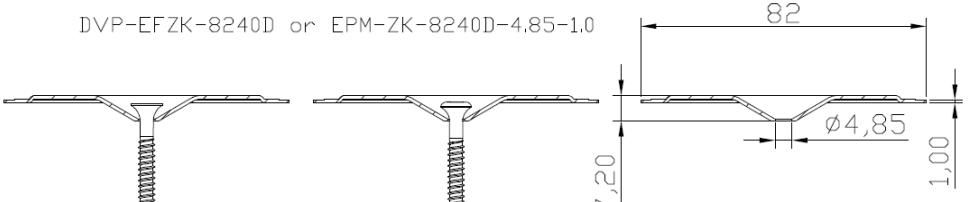
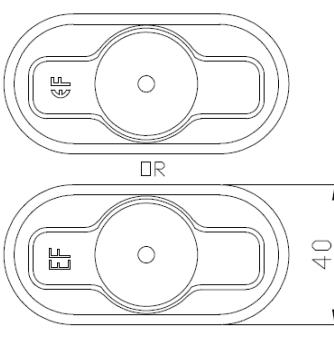
DVP-EFB-8240D or EPM-B-8240D-4,85-1,0

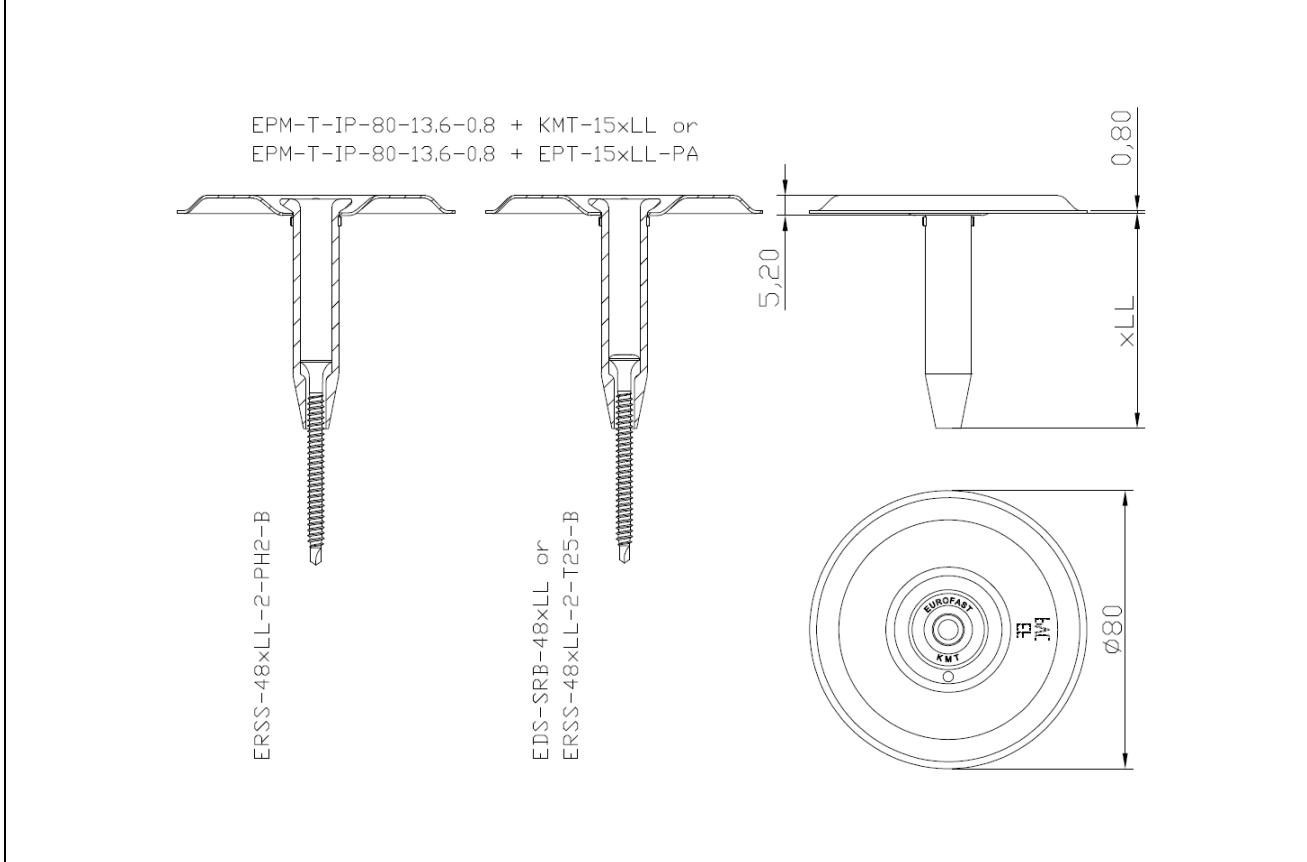
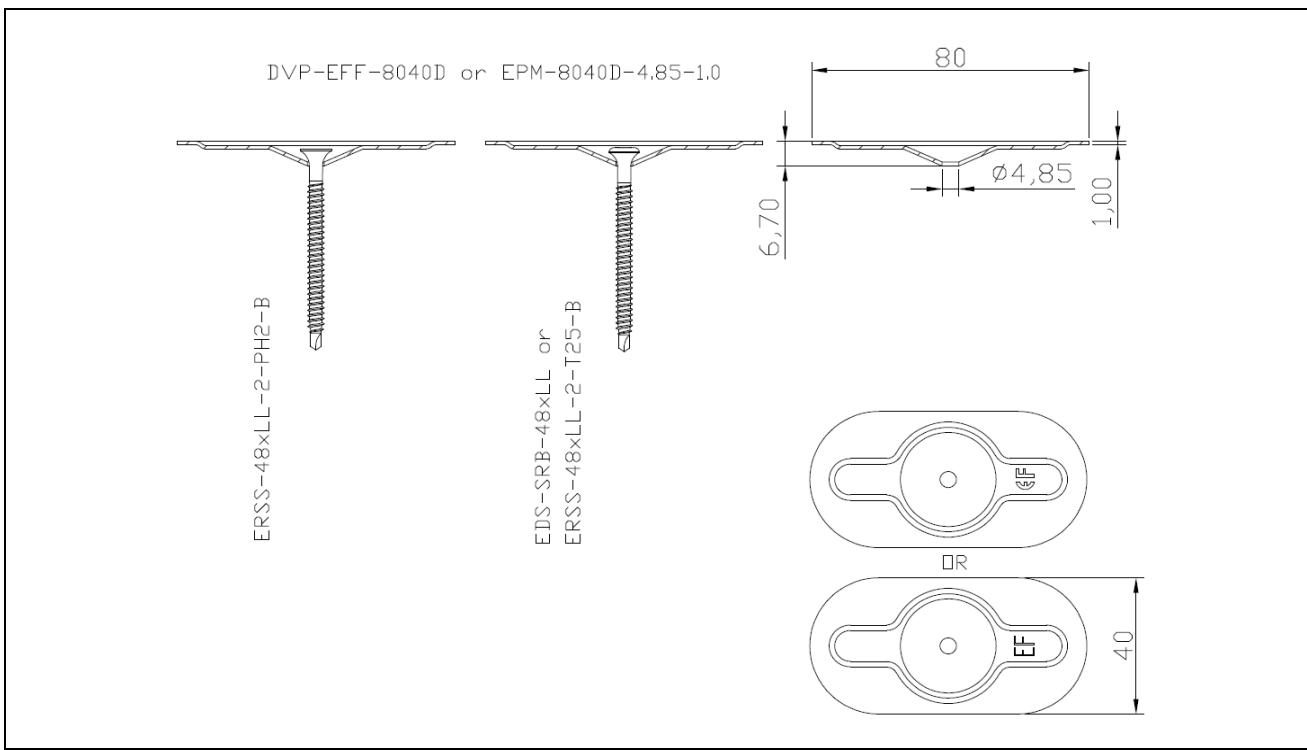


Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.21

<p>DVP-DFB-8240D or EPM-B-8240D-7,0-1,0</p>  <p>ERSS-48xLL-2-PH2-B</p> <p>EDS-SRB-48xLL or ERSS-48xLL-2-T25-B</p>	
<p>DVP-EFZK-8240D or EPM-ZK-8240D-4,85-1,0</p>  <p>ERSS-48xLL-2-PH2-B</p> <p>EDS-SRB-48xLL or ERSS-48xLL-2-T25-B</p>	
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-SRB-48xLL (ERSS-48xLL-2-T25-B) (ERSS-48xLL-2-PH2-B)</p>	<p>Annex D.22</p>

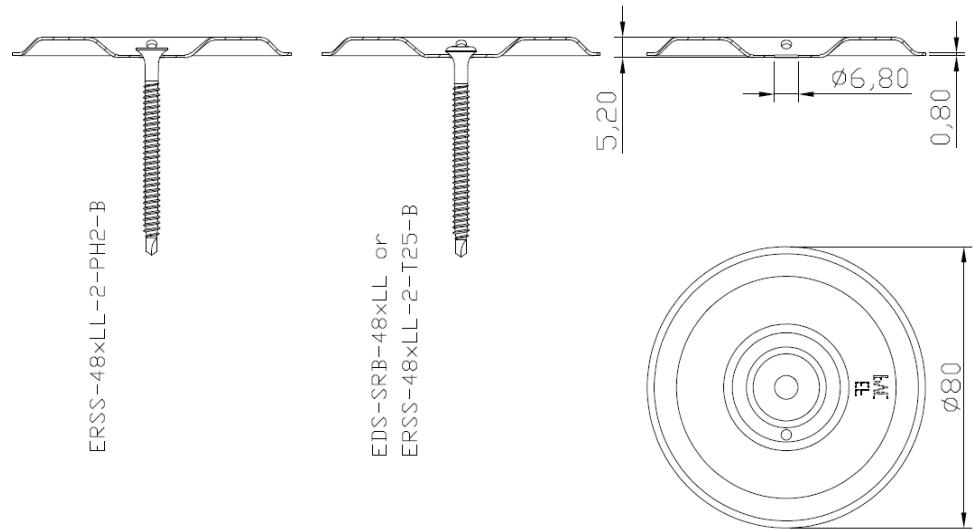


Eurofast Flat Roof Fasteners

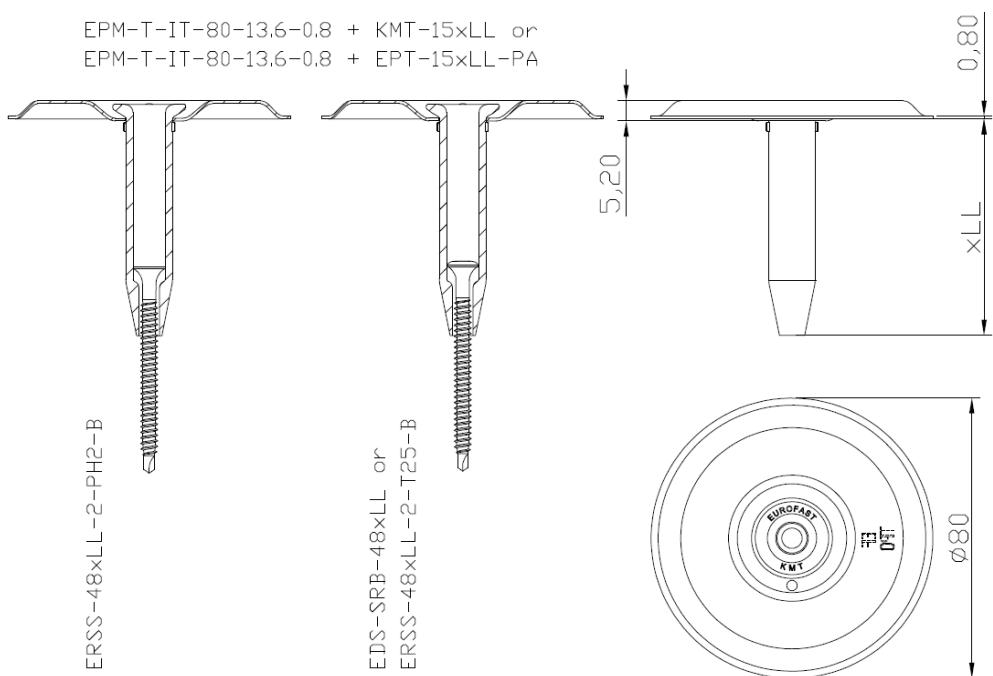
EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.23

EPM-IP-80-6.8-0.8



EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B



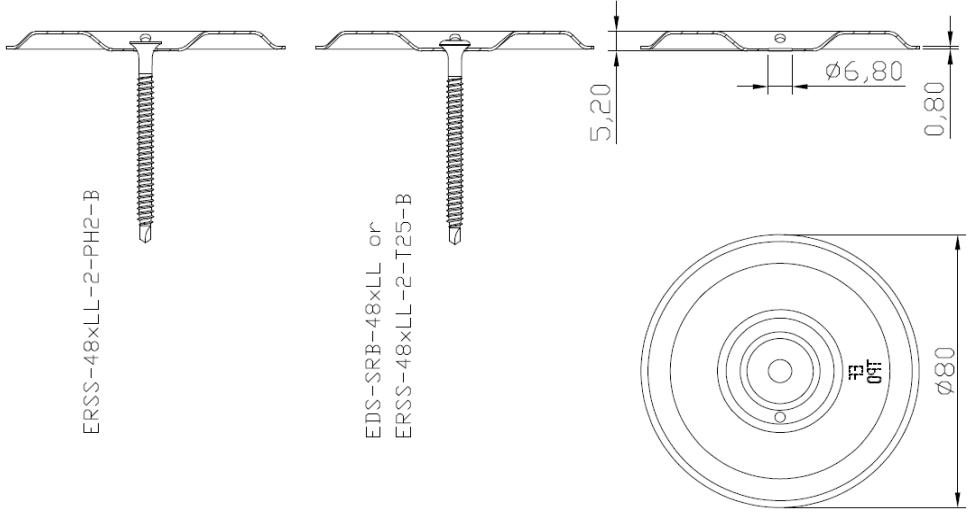
EDS-SRB-48xLL or
ERSS-48xLL-2-T25-B

Eurofast Flat Roof Fasteners

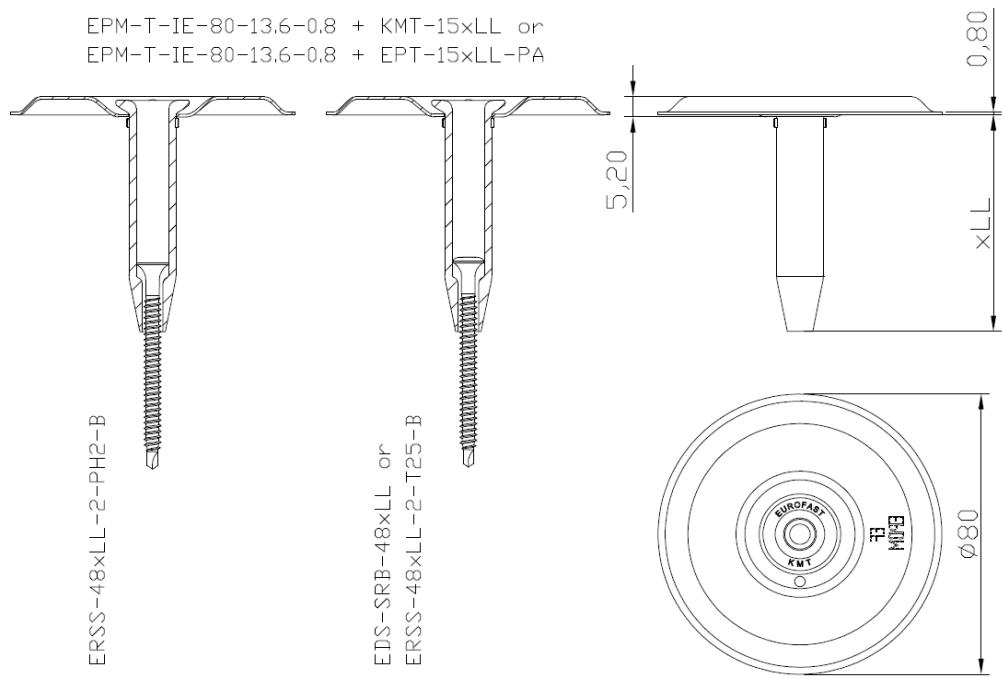
**EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)**

Annex D.24

EPM-IT-80-6,8-0,8



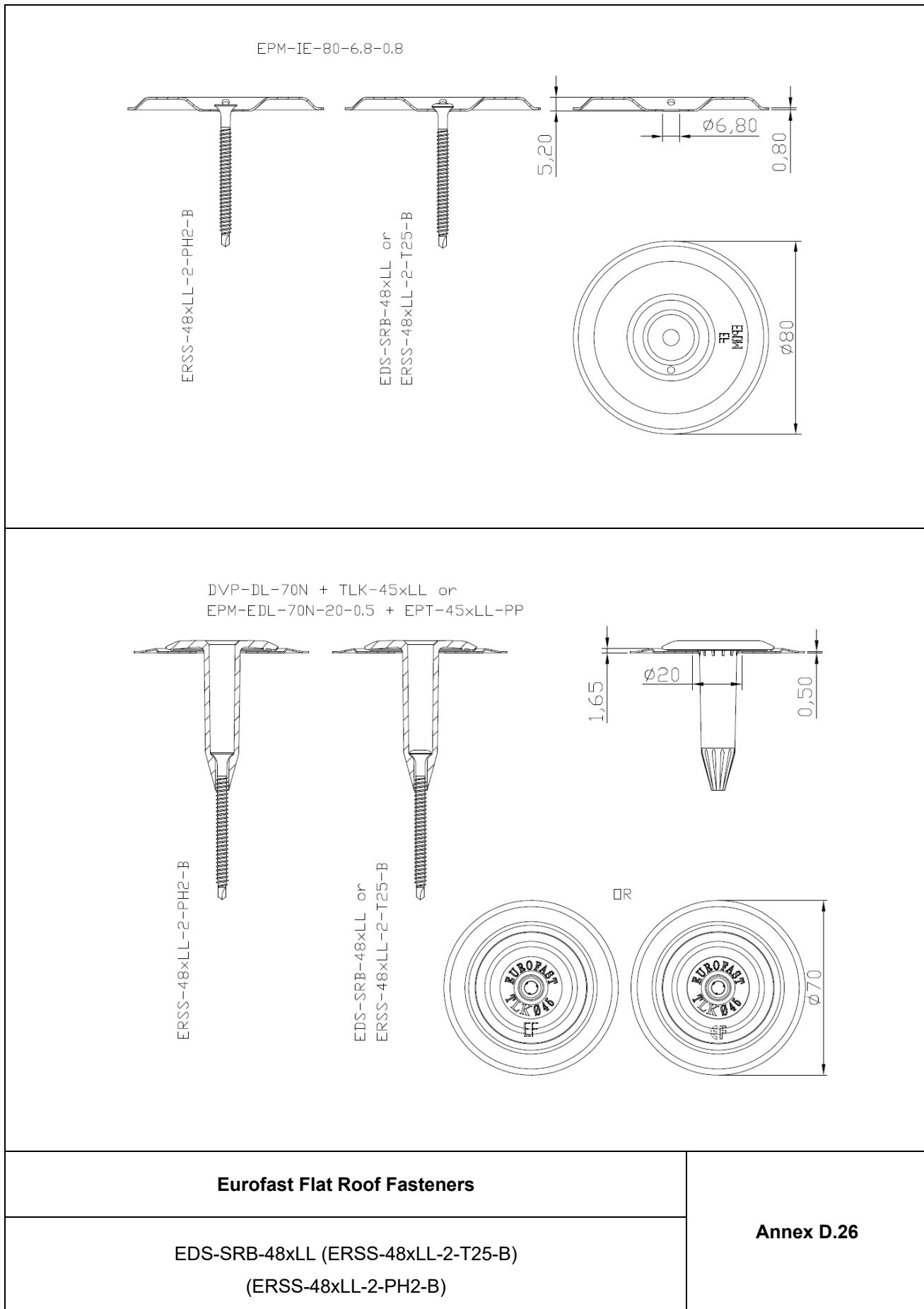
EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



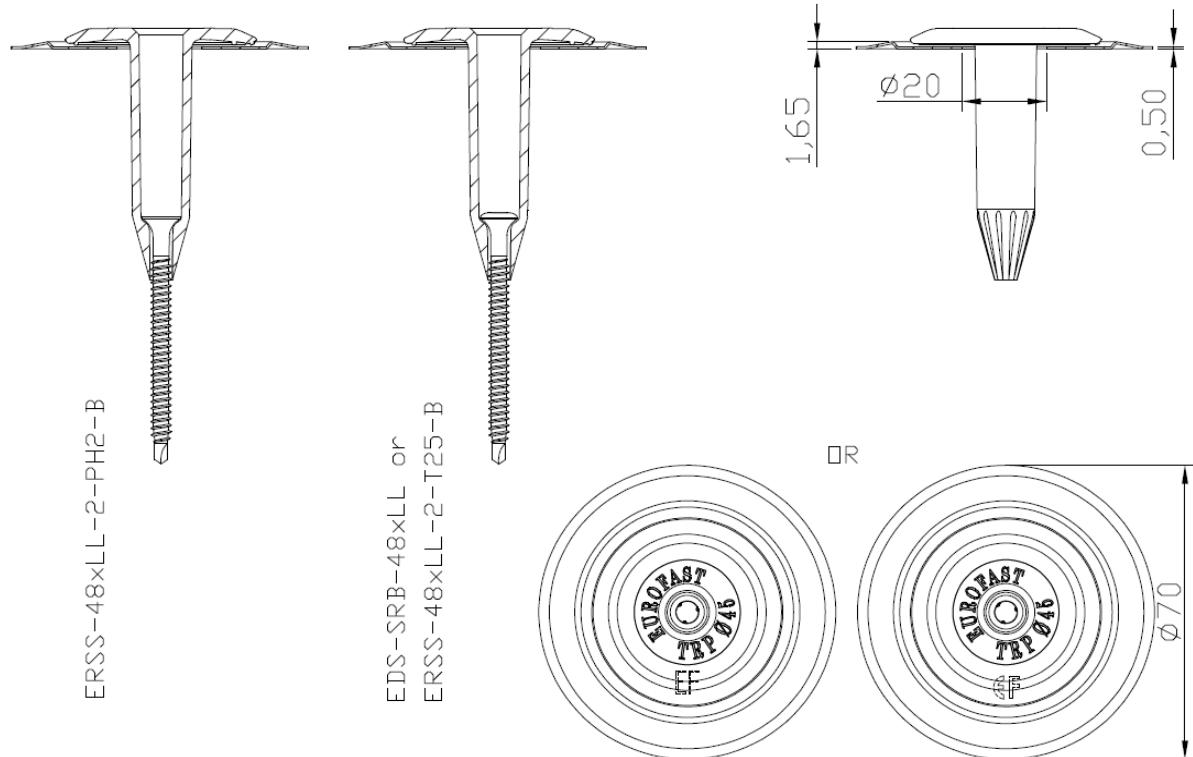
Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.25



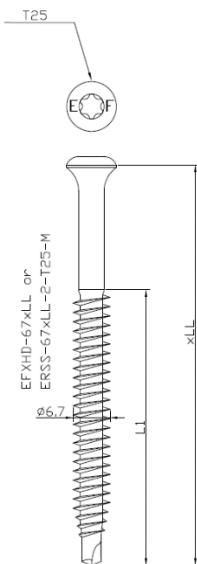
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EDS-SRB-48xLL (ERSS-48xLL-2-T25-B)
(ERSS-48xLL-2-PH2-B)

Annex D.27



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)									
	Steel S320GD *								
t [mm]	0,50	0,60	0,63	0,70	0,75	0,80	0,88	1,00	1,25
EFXHD-67xLL (ERSS-67xLL-2-T25-M)	1,10	1,52	1,52	1,98	2,09	2,59	2,59	2,94	3,48

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)								
	OSB/3			Chipboard	Plywood		Timber C24	
t [mm]	16	18	21	25	19	18	21	24
EFXHD-67xLL (ERSS-67xLL-2-T25-M)	0,67	0,95	1,12	1,42	0,94	0,94	1,25	1,61

Characteristic Values of Axial Pull-Through * Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-51N-5.6-0.84
	DVP-EF-7010D (EPM-70D-6.5-1.0)	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	-	EPM-IP-80-6.8-0.8
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	-	EPM-IT-80-6.8-0.8
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-	EPM-IE-80-6.8-0.8
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-	-
EFXHD-67xLL (ERSS-67xLL-2-T25-M)	5,05	3,89	2,96	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex E.1

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

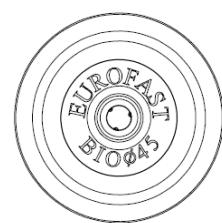
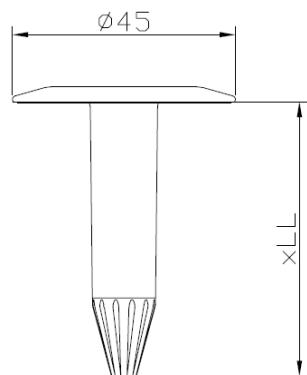
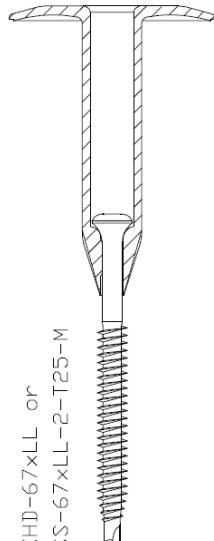
Characteristic Values of Axial Pull-Through * Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)	-
TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-	-
BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-	-
TWP-8040xLL (EPT-8040xLL-PA)	-	-	-
EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-	-
DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-	-
EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-	-
EFXHD-67xLL (ERSS-67xLL-2-T25-M)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

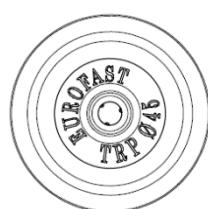
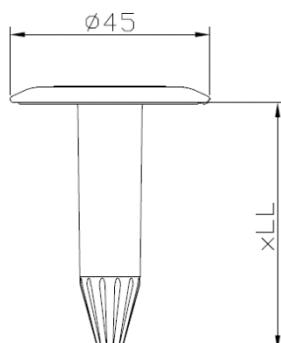
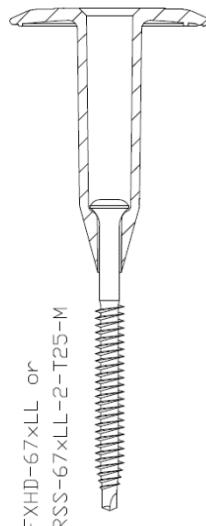
Screw: EFXHD-67xLL (ERSS-67xLL-2-T25-M)		
Metal pressure plate:		
DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-5010N (EPM-50N-6.3-1.0)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-DF-7070D (EPM-7070D-7.0-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010D (EPM-70D-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N (EPM-70N-6.5-1.0)	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-EF-8040D (EPM-8040D-6.5-1.0)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-EF-8040N (EPM-8040N-6.5-1.0)		
DVP-DF-8240D (EPM-8240D-7.0-1.0)		
DVP-DF-8240H (EPM-8240H-7.0-1.0)		
DVP-DF-8240XH (EPM-8240XH-7.0-1.0)		
DVP-EF-51N (EPM-51N-6.7-0.84)		
EPM-51N-5.6-0.84		
DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)		
EPM-IP-80-6.8-0.8		
EPM-IT-80-6.8-0.8		
EPM-IE-80-6.8-0.8		
Pressure plate with tube:		
BIO-45xLL (EPT-45xLL-BIO)	Termination bar: EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	
TRP-45xLL (EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	
BTRP-45xLL (EPT-B-45xLL-PA)		
TWP-8040xLL (EPT-8040xLL-PA)		
TLK-45xLL (EPT-45xLL-PP)		
HTLK-45xLL (EPT-O-45xLL-PP)		
TLK-75xLL (EPT-75xLL-PP)		
Substrate:		
Steel S280	EN 10346	
Steel S320	EN 10346	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2
Timber, class \geq C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338
Installation data:		
Max. drilling capacity in steel substrate:	2x1,25 mm	
HUKAD type:	Raised Bugle HUKAD	
Recess:	TX25	
Fixing in steel substrate:	Minimum 20 mm of the screw fixed through the steel sheet	
Fixing in wooden and wood-based substrate:	Full thread through the substrate or minimum embedment depth	
Installation force of installation tool in:		
- steel substrate	25 kg	
- wooden and wood-based substrate	35 kg	
Installation tool speed:	1600 - 1800 rpm	

Eurofast Flat Roof Fasteners	Annex E.2
EFXHD-67xLL (ERSS-67xLL-2-T25-M)	

BIO-45xLL or EPT-45xLL-BIO



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

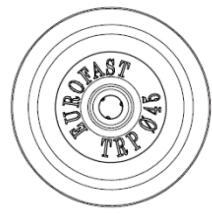
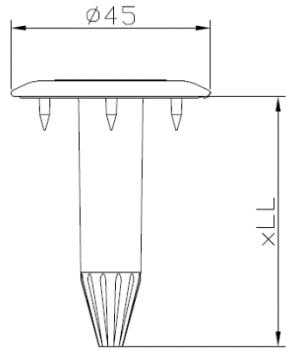
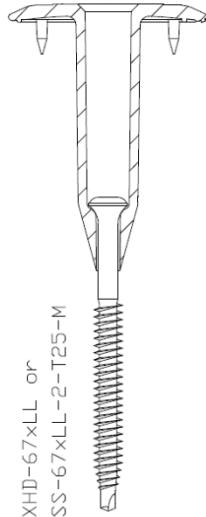


Eurofast Flat Roof Fasteners

Annex E.3

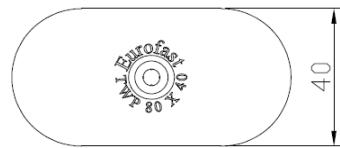
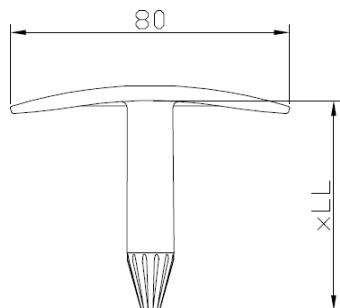
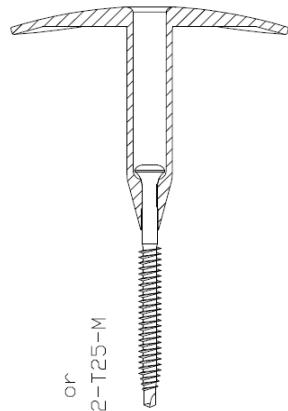
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

EFXHD-67xLL or
ERSS-67xLL-2-T25-M

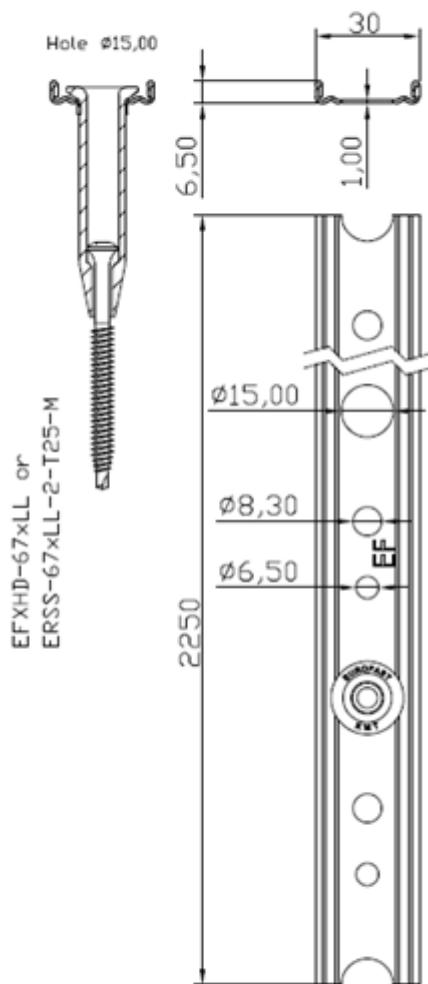


Eurofast Flat Roof Fasteners

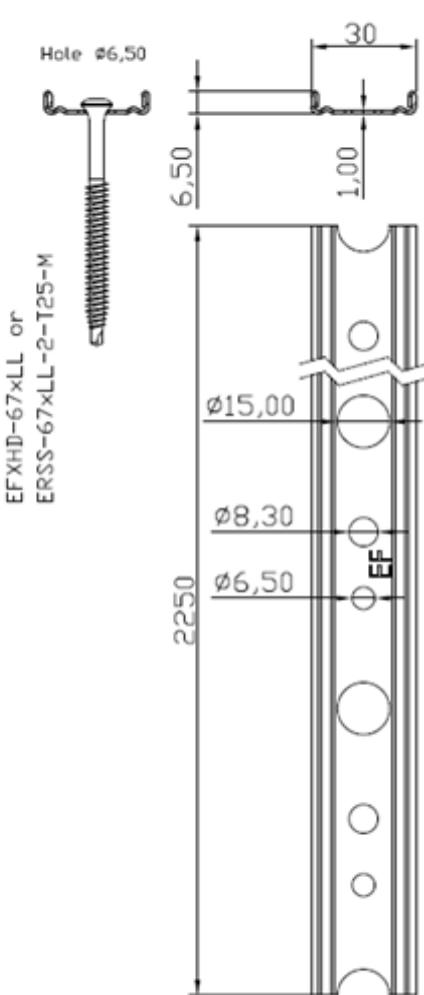
Annex E.4

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

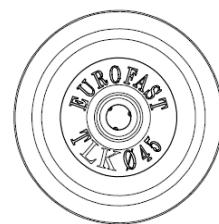
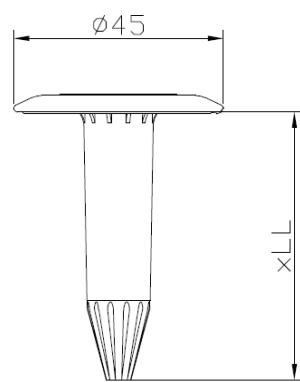
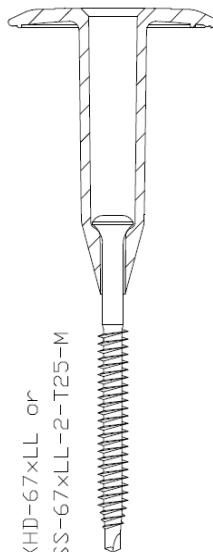


Eurofast Flat Roof Fasteners

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

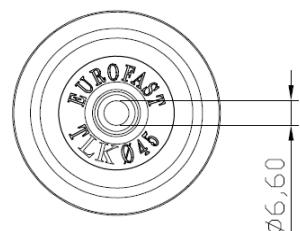
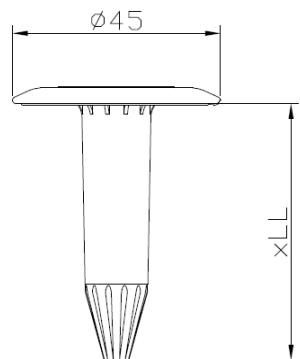
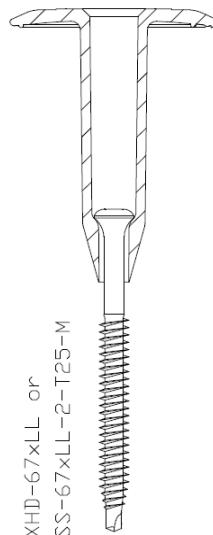
Annex E.5

TLK-45xLL or EPT-45xLL-PP



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

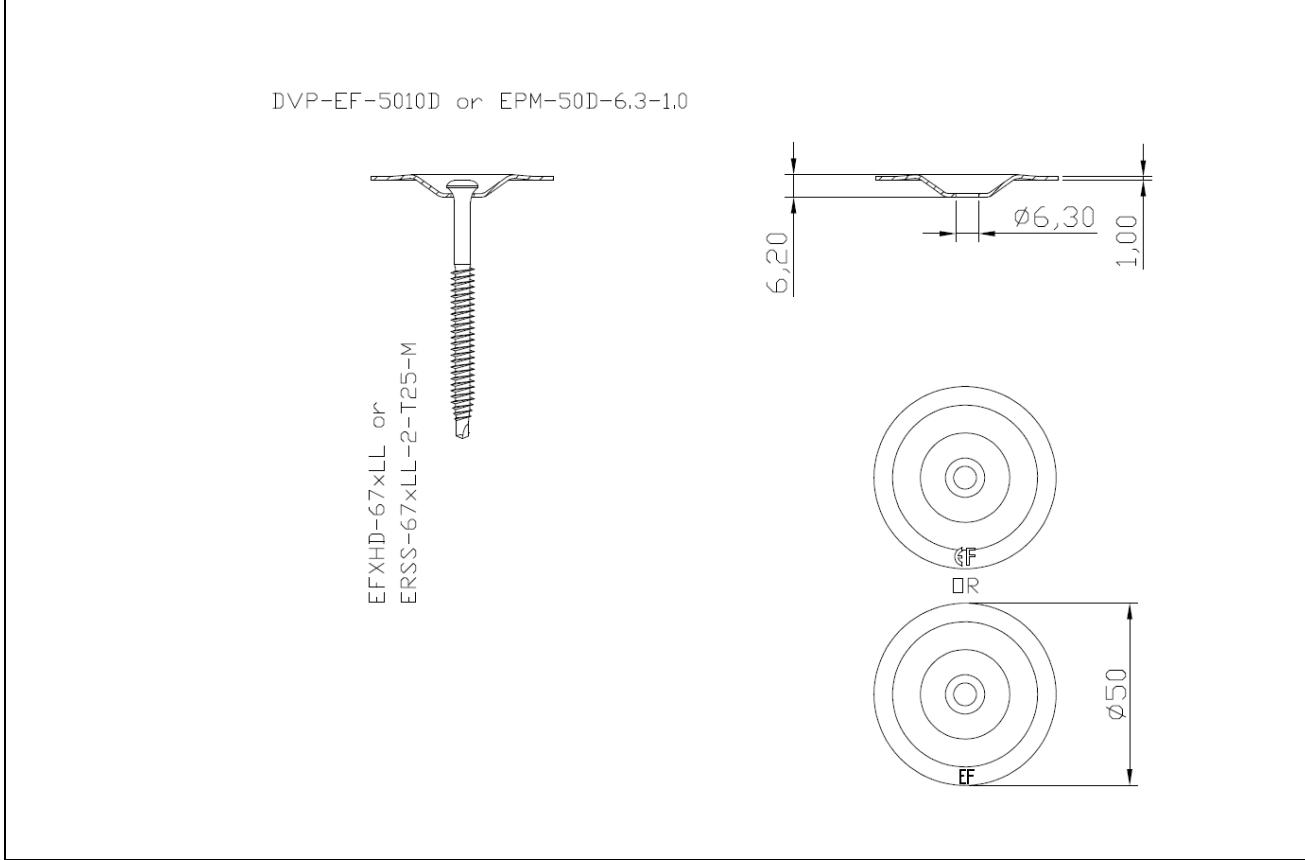
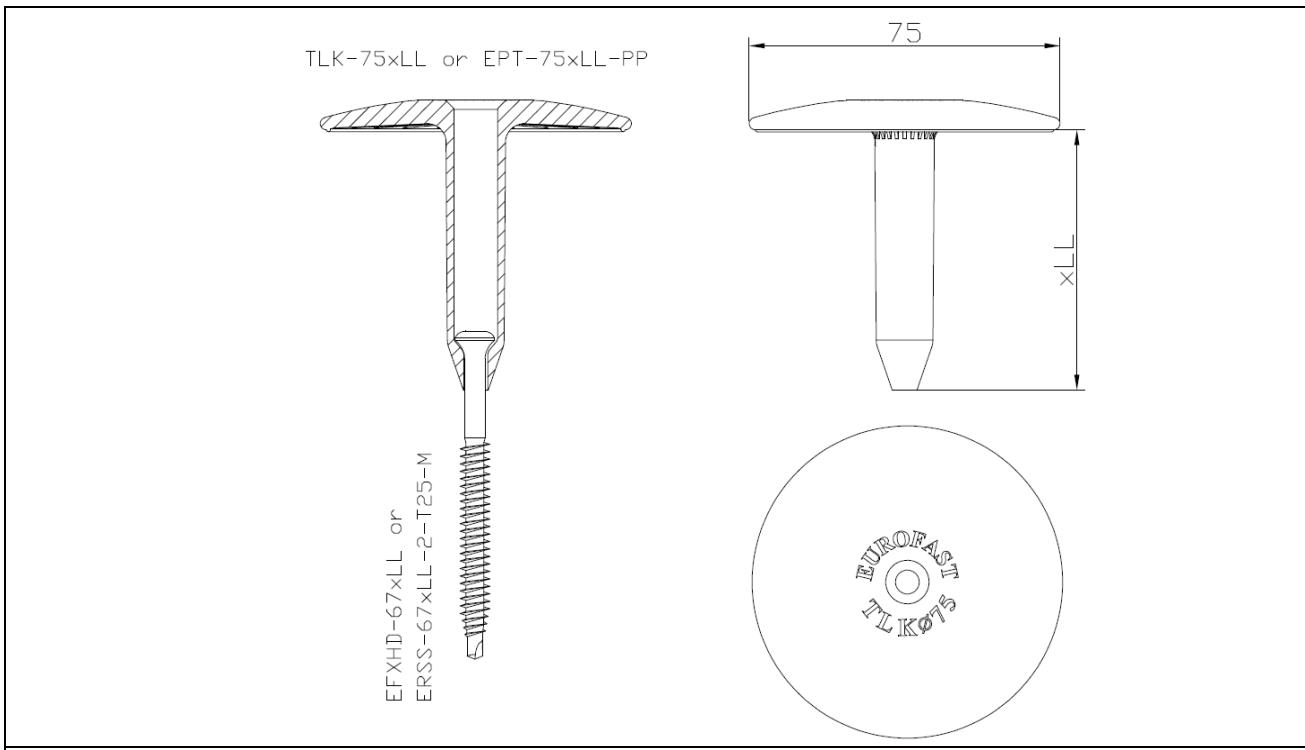
HTLK-45xLL or EPT-Ø-45xLL-PP



Eurofast Flat Roof Fasteners

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.6

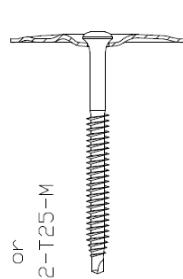


Eurofast Flat Roof Fasteners

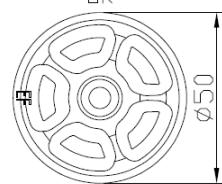
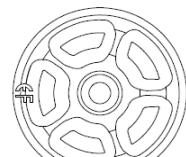
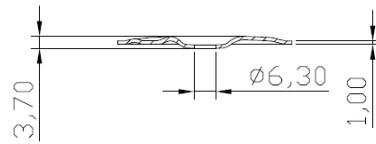
Annex E.7

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

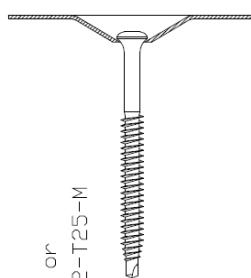
DVP-EF-5010N or EPM-50N-6.3-1.0



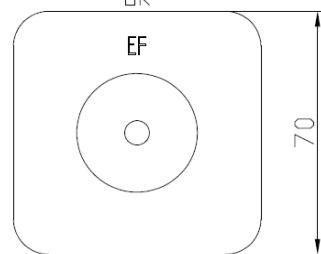
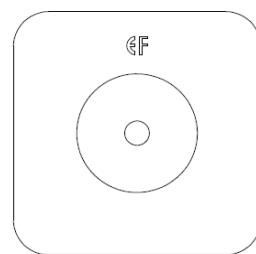
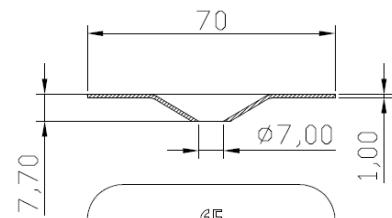
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



DVP-DF-7070D or EPM-7070D-7.0-1.0



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

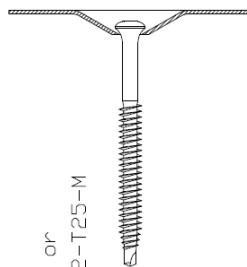


Eurofast Flat Roof Fasteners

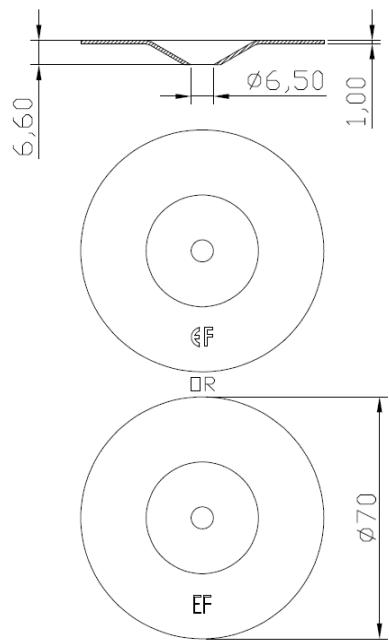
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.8

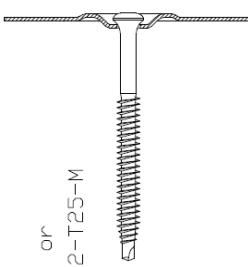
DVP-EF-7010D or EPM-70D-6.5-1.0



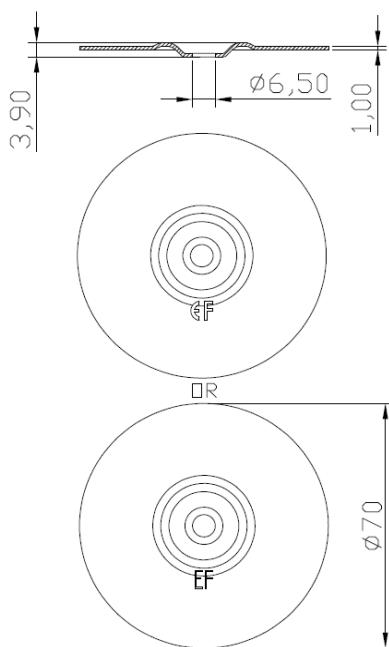
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



DVP-EF-7010N or EPM-70N-6.5-1.0



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

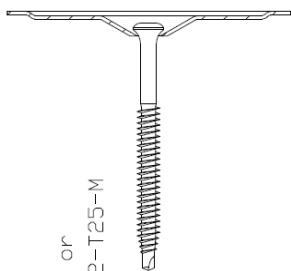


Eurofast Flat Roof Fasteners

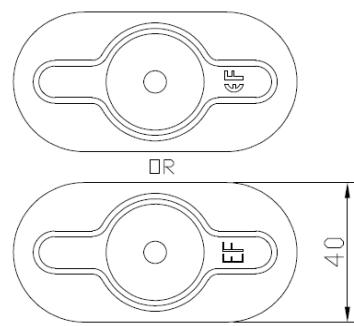
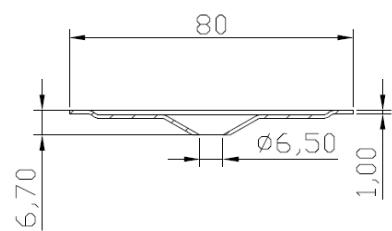
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.9

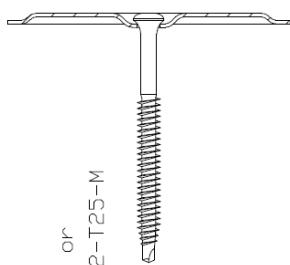
DVP-EF-8040D or EPM-8040D-6.5-1.0



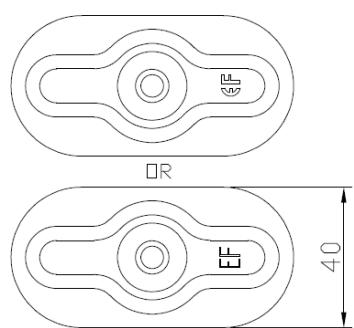
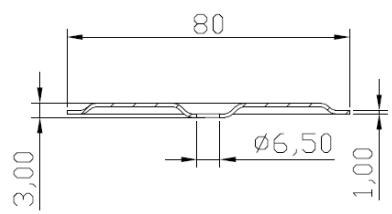
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



DVP-EF-8040N or EPM-8040N-6.5-1.0



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

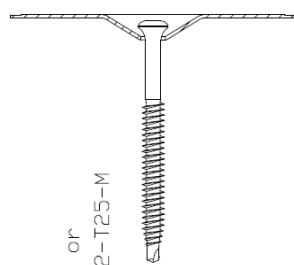


Eurofast Flat Roof Fasteners

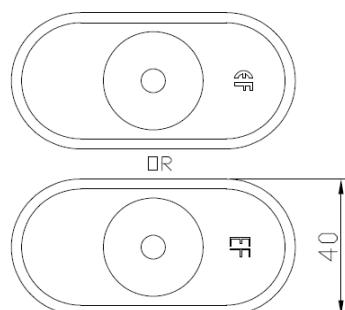
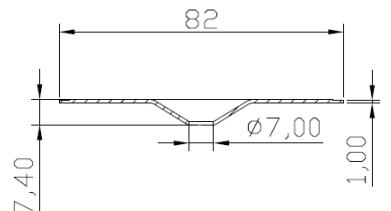
Annex E.10

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

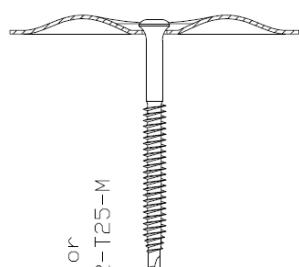
DVP-DF-8240D or EPM-8240D-7.00-1.0



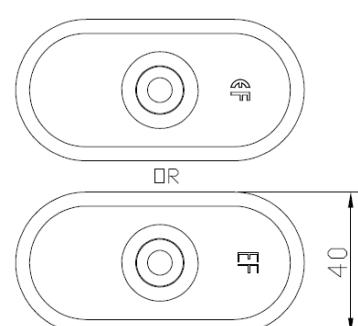
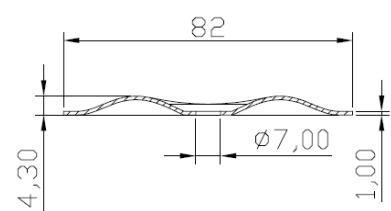
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



DVP-DF-8240H or EPM-8240H-7.0-1.0



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

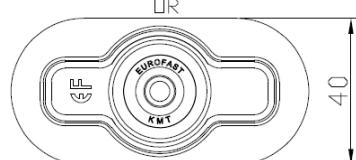
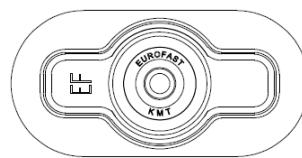
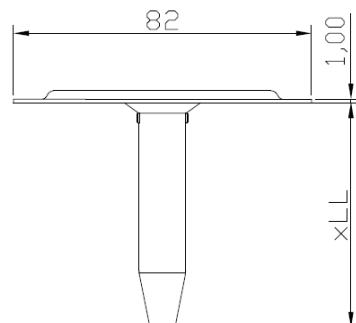
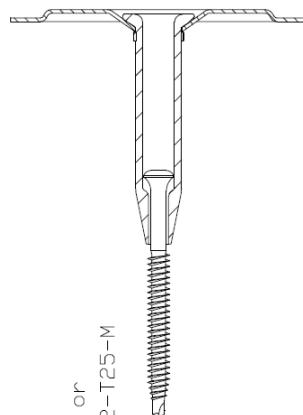


Eurofast Flat Roof Fasteners

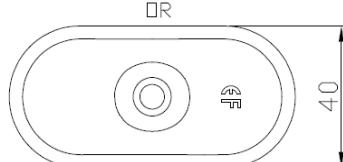
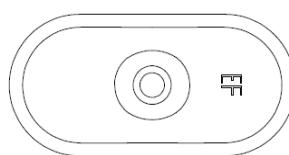
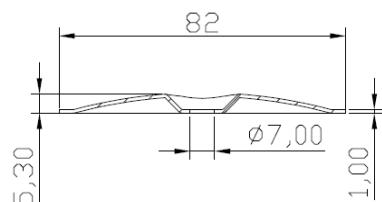
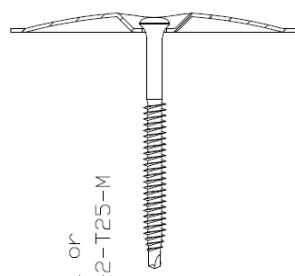
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.11

DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13,6-1,0 + EPT-15xLL-PA



DVP-DF-8240XH or EPM-8240XH-7,0-1,0

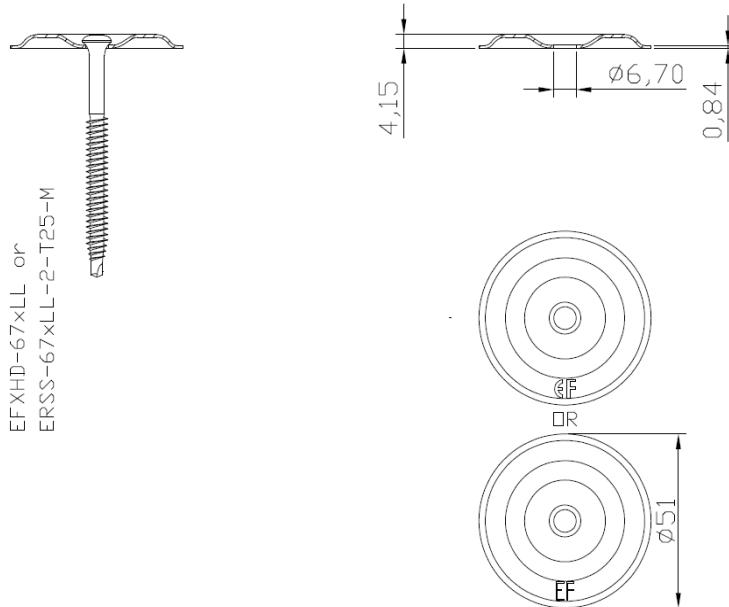


Eurofast Flat Roof Fasteners

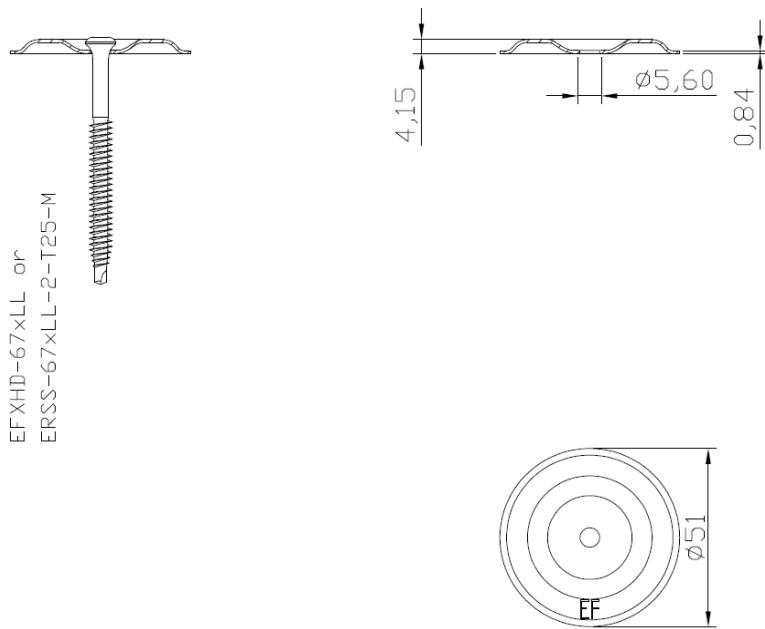
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.12

DVP-EF-51N or EPM-51N-6,7-0,84



EPM-51N-5,6-0,84

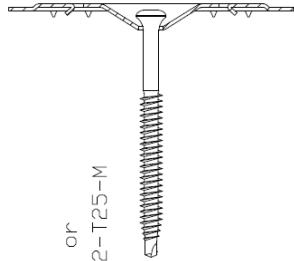


Eurofast Flat Roof Fasteners

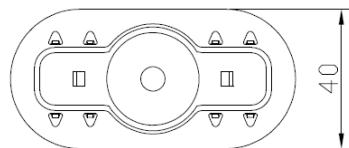
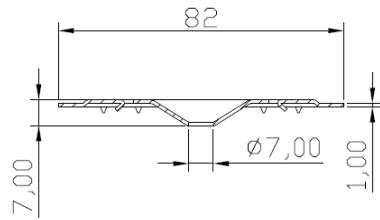
Annex E.13

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

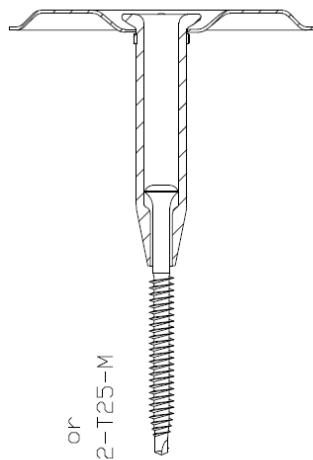
DVP-DFB-8240D or EPM-B-8240D-7.0-1.0



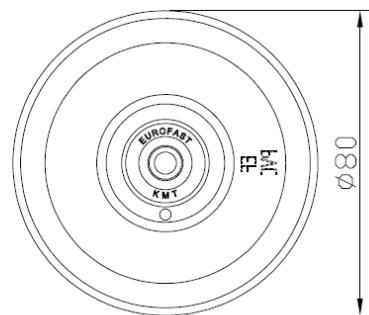
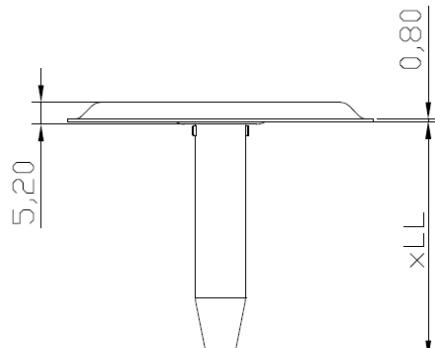
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



EPM-T-IP-80-13.6-0.8 + KMT-15xLL or
EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

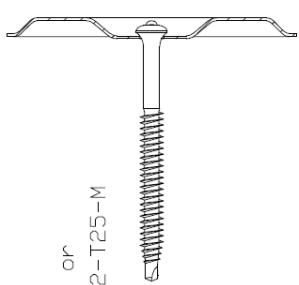


Eurofast Flat Roof Fasteners

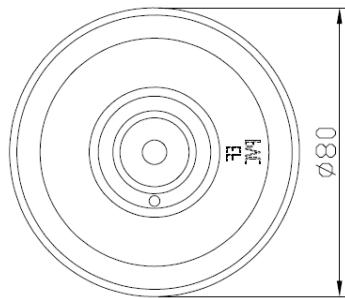
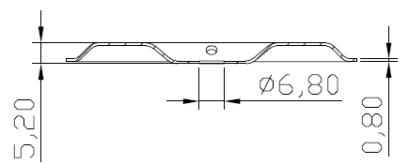
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.14

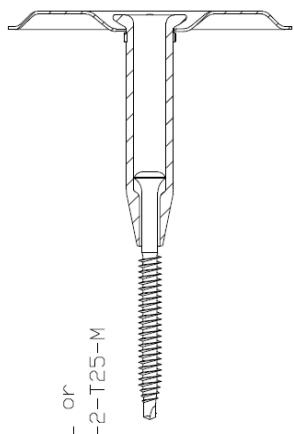
EPM-IP-80-6,8-0,8



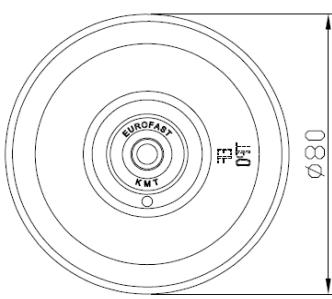
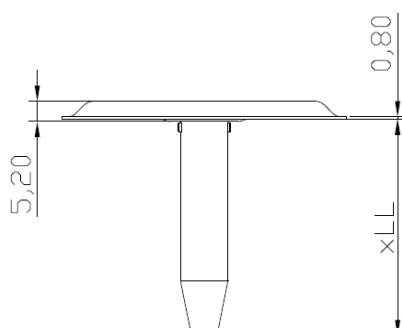
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

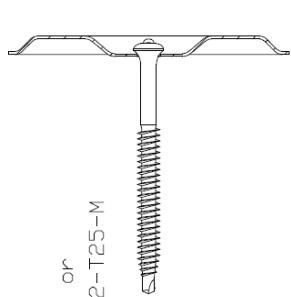


Eurofast Flat Roof Fasteners

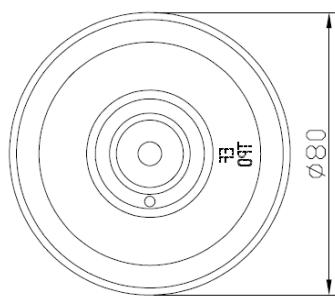
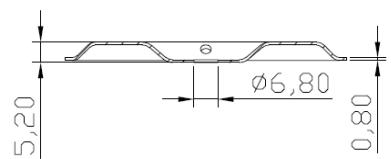
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.15

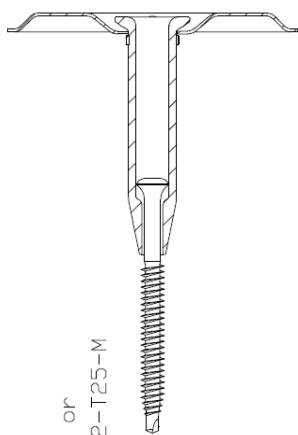
EPM-IT-80-6.8-0.8



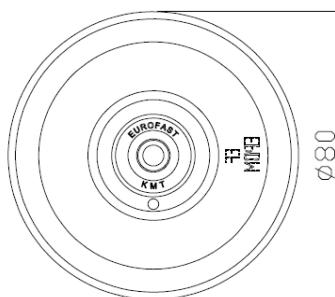
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

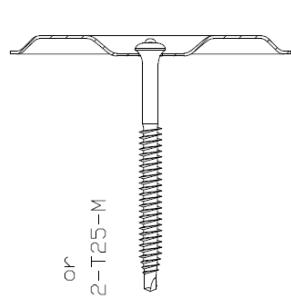


Eurofast Flat Roof Fasteners

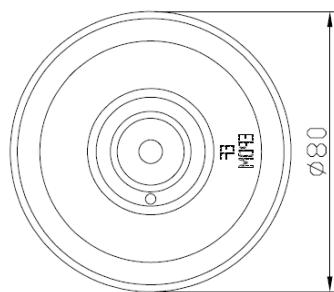
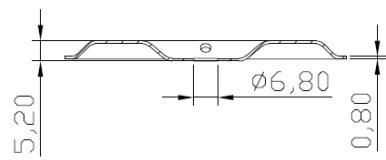
EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.16

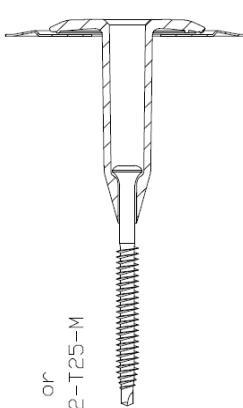
EPM-IE-80-6.8-0.8



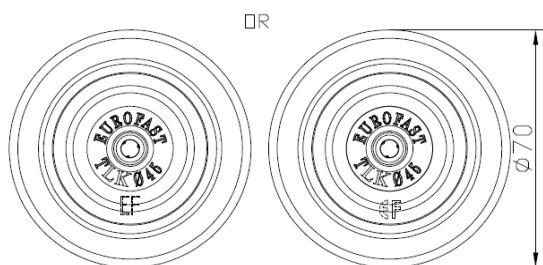
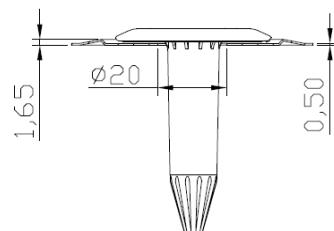
EFXHD-67xLL or
ERSS-67xLL-2-T25-M



DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0.5 + EPT-45xLL-PP



EFXHD-67xLL or
ERSS-67xLL-2-T25-M

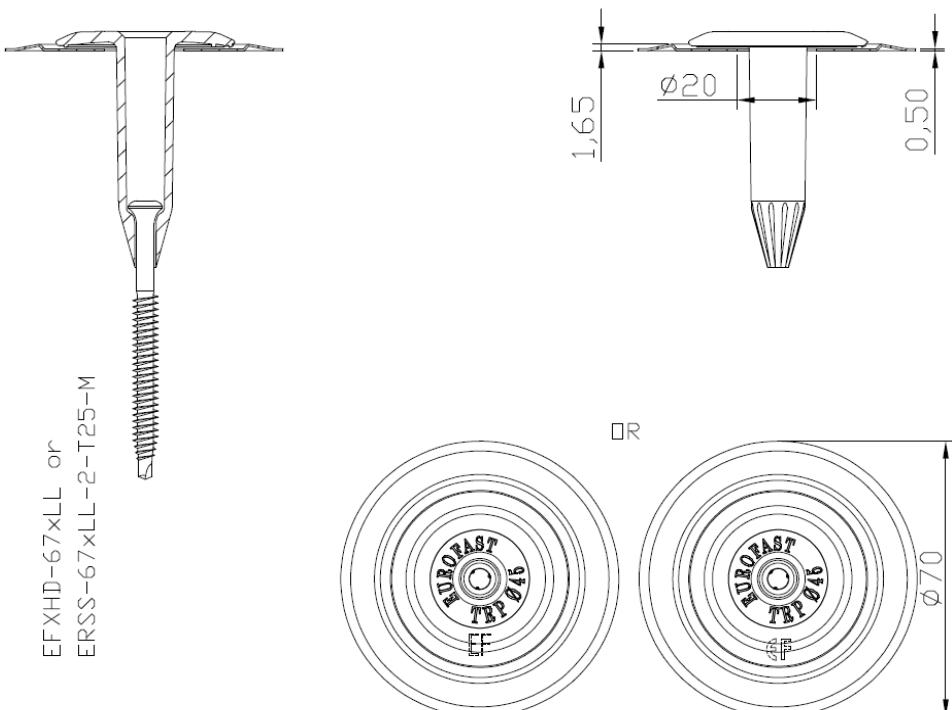


Eurofast Flat Roof Fasteners

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.17

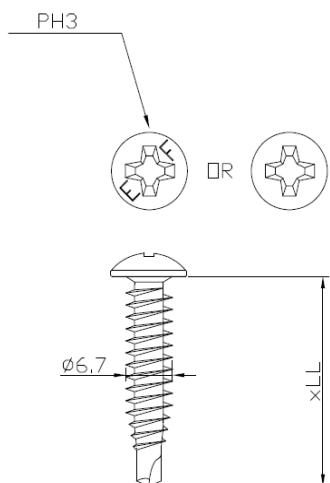
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EFXHD-67xLL (ERSS-67xLL-2-T25-M)

Annex E.18



DFHD-67xLL or
ERSS-67xLL-2-PH3-15C

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)									
	Steel S320GD*								
t [mm]	0,50	0,60	0,63	0,70	0,75	0,80	0,88	1,00	1,25
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)	1,10	1,52	1,52	1,98	2,09	2,59	2,59	2,94	3,48

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)							
	OSB/3		Chipboard		Plywood		Timber C24
t [mm]	16	18	21	25	19	18	21
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)	0,67	0,95	1,12	1,42	0,94	0,94	1,25

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	DVP-EF-7010N (EPM-70N-6.5-1.0)	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-51N (EPM-51N-6.7-0.84)	
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-8040N (EPM-8040N-6.5-1.0)	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	EPM-51N-5.6-0.84	
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	-	-	EPM-IP-80-6.8-0.8	
	-	-	-	EPM-IT-80-6.8-0.8	
	-	-	-	EPM-IE-80-6.8-0.8	
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)	5,05	2,89	5,17	2,91	

Eurofast Flat Roof Fasteners

DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.1

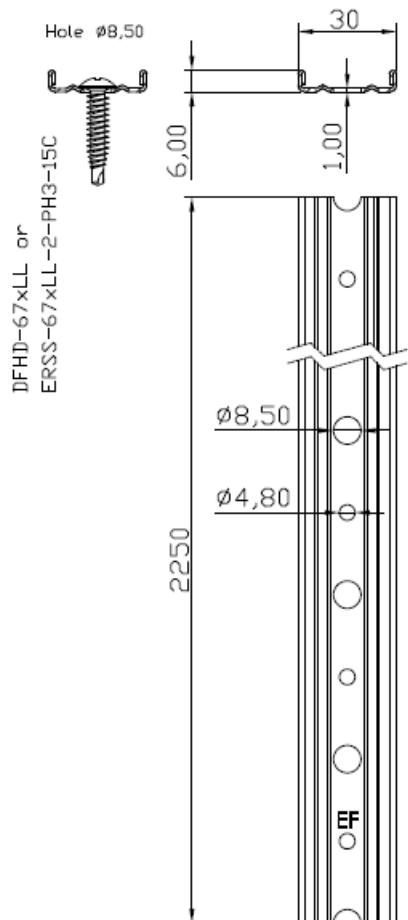
Screw:	DFHD-67xLL (ERSS-67xLL-2-PH3-15C)
Metal pressure plate:	
DVP-EF-7010N	(EPM-70N-6.5-1.0)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-51N	(EPM-51N-6.7-0.84)
EPM-51N-5.6-0.84	
EPM-IP-80-6.8-0.8	
EPM-IT-80-6.8-0.8	
EPM-IE-80-6.8-0.8	
Termination bar:	
EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
Substrate:	
Steel S280	EN 10346
Steel S320	EN 10346
OSB/3	EN 12369-1
Chipboard	EN 12369-1
Plywood	EN 12369-2
Timber, class ≥ C24	EN 338
Installation data:	
Max. drilling capacity in steel substrate:	2x1,25 mm
HUKAD type:	Truss HUKAD
Recess:	PH3
Fixing in steel substrate:	Minimum 20 mm of the screw fixed through the steel sheet
Fixing in wooden and wood-based substrate:	Full thread through the substrate or minimum embedment depth
Installation force of installation tool in:	
- steel substrate	25 kg
- wooden and wood-based substrate	35 kg
Installation tool speed:	1600 - 1800 rpm

Eurofast Flat Roof Fasteners

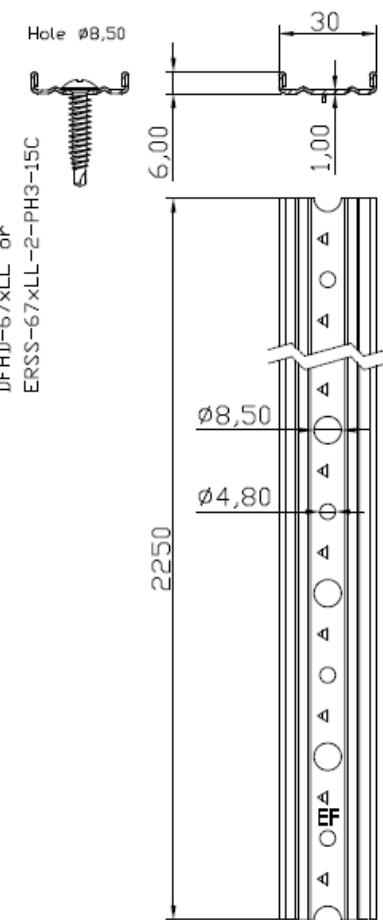
Annex F.2

DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

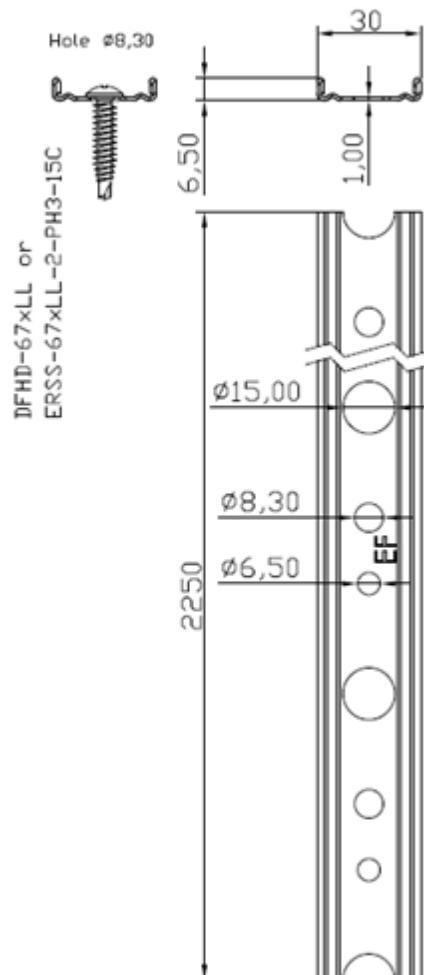


Eurofast Flat Roof Fasteners

DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.3

EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

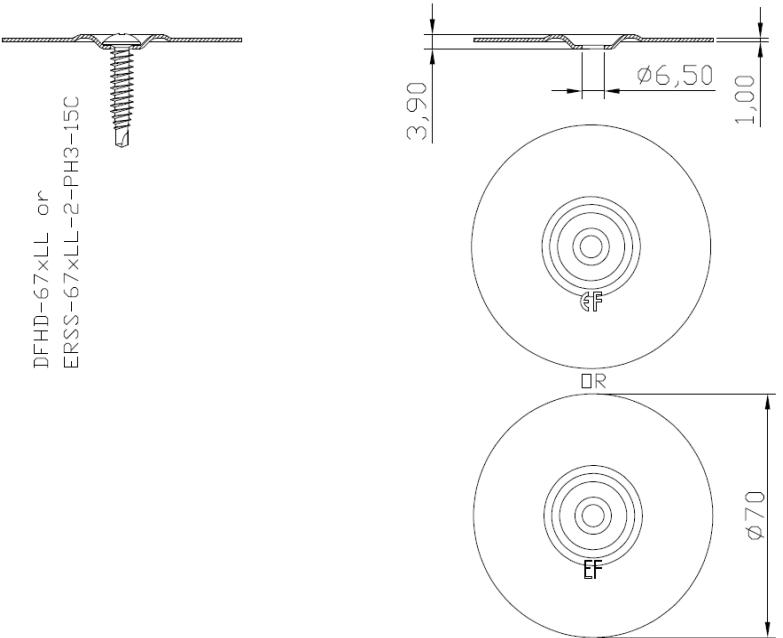


Eurofast Flat Roof Fasteners

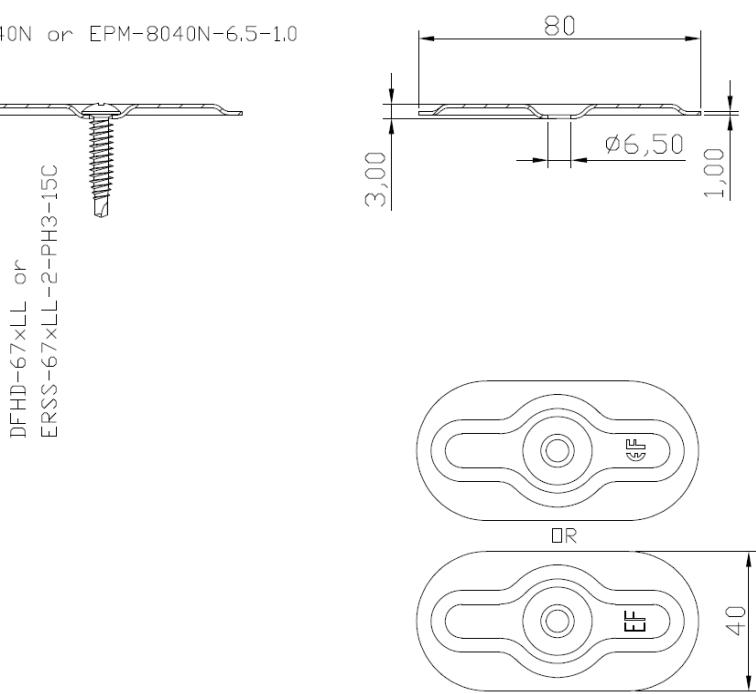
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.4

DVP-EF-7010N or EPM-70N-6.5-1.0



DVP-EF-8040N or EPM-8040N-6.5-1.0

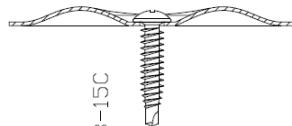


Eurofast Flat Roof Fasteners

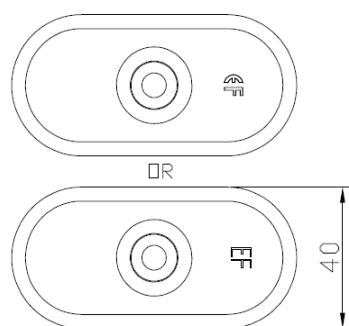
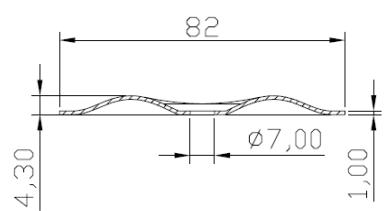
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.5

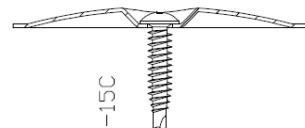
DVP-DF-8240H or EPM-8240H-7.0-1.0



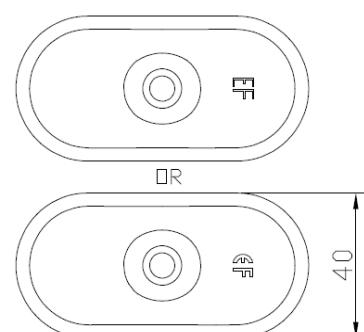
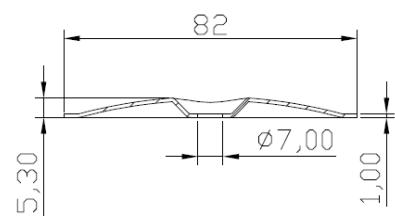
DFHD-67xLL or
ERSS-67xLL-2-PH3-15C



DVP-DF-8240XH or EPM-8240XH-7.0-1.0



DFHD-67xLL or
ERSS-67xLL-2-PH3-15C

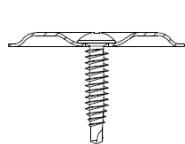


Eurofast Flat Roof Fasteners

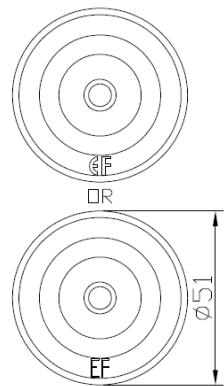
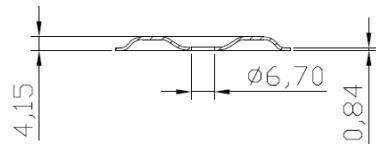
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.6

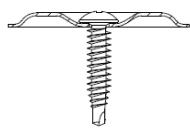
DVP-EF-51N or EPM-51N-6,7-0,84



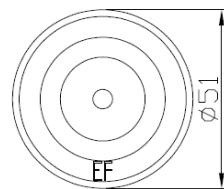
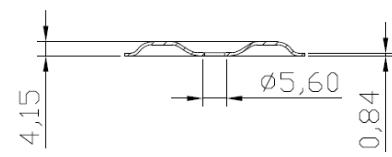
DFHD-67xLL or
ERSS-67xLL-2-PH3-15C



EPM-51N-5,6-0,84



DFHD-67xLL or
ERSS-67xLL-2-PH3-15C

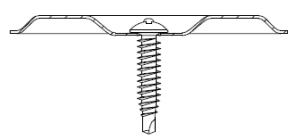


Eurofast Flat Roof Fasteners

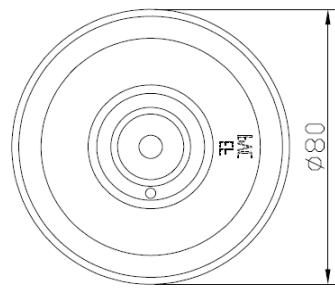
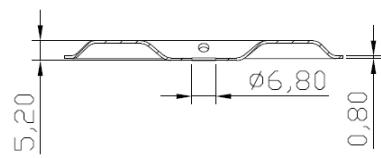
Annex F.7

DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

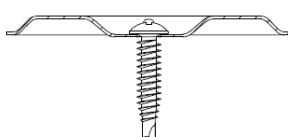
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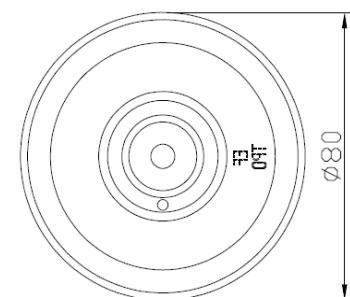
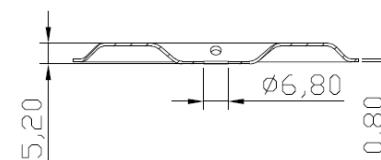
DFHD-67xLL or
ERSS-67xLL-2-PH3-15C



EPM-IT-80-6.8-0.8



DFHD-67xLL or
ERSS-67xLL-2-PH3-15C

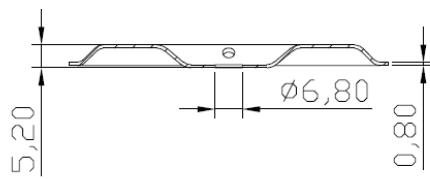
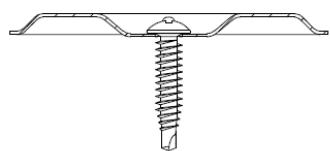


Eurofast Flat Roof Fasteners

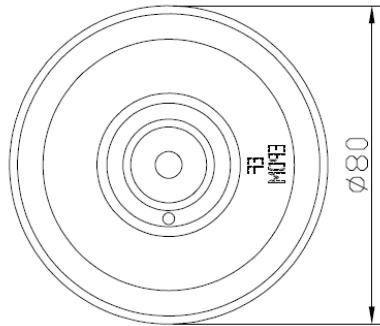
DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.8

EPM-IE-80-6.8-0.8



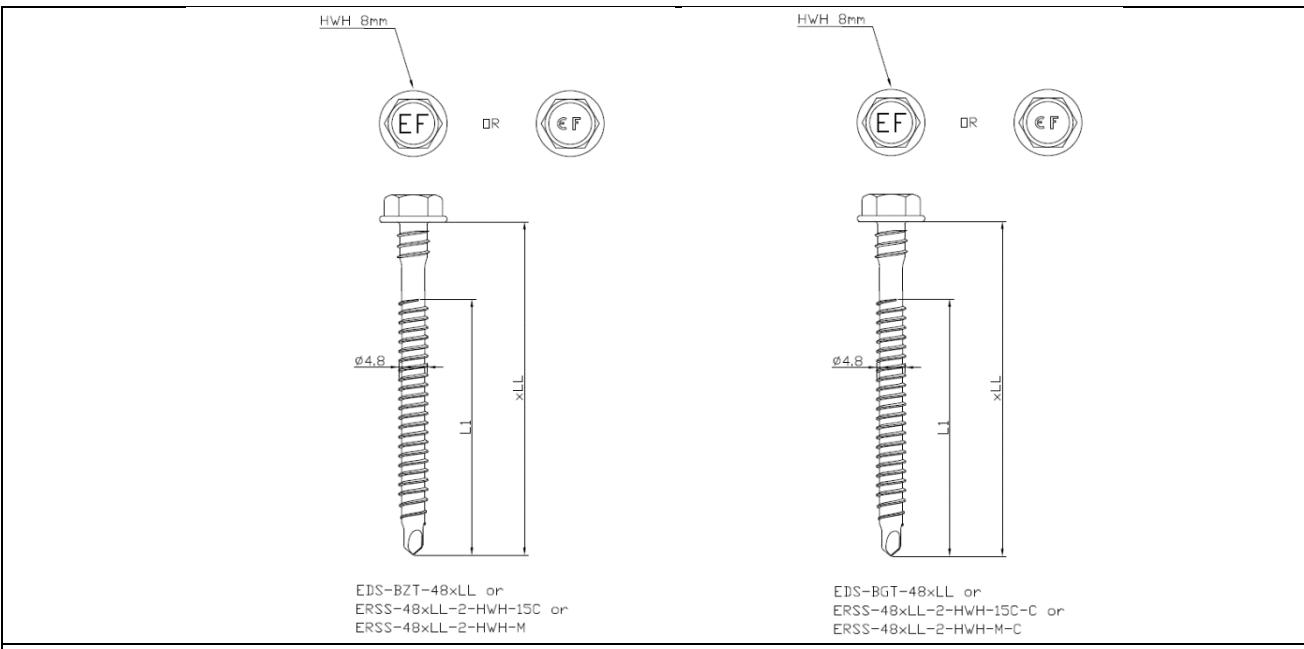
DFHD-67xLL or
ERSS-67xLL-2-PH3-15C



Eurofast Flat Roof Fasteners

DFHD-67xLL (ERSS-67xLL-2-PH3-15C)

Annex F.9



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	Steel S320GD*					
t [mm]	0,70	0,75	0,80	0,88	1,00	1,25
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)	1,24	1,39	1,60	1,60	1,72	2,23
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)	1,24	1,39	1,60	1,60	1,72	2,23

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
	OSB/3		Chipboard	Plywood		Timber C24
t [mm]	18	21	25	19	18	21
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)	1,12	1,25	1,33	0,95	1,03	1,24
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)	1,12	1,25	1,33	0,95	1,03	1,24
						1,70

Eurofast Flat Roof Fasteners

Annex G.1

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-
	DVP-EF-5010DFR (EPM-50D-4.85-1.0)	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-
	DVP-EF-7070D (EPM-7070D-4.85-1.0)	-	-
	DVP-EF-7010DFR (EPM-70D-4.85-1.0)	-	-
	DVP-EF-8240D (EPM-8240D-4.85-1.0)	-	-
	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	-	-
	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	-	-
	DVP-EFK-8240D (EPM-ZK-8240D-4.85-1.0)	-	-
	DVP-EFF-8040D (EPM-8040D-4.85-1.0)	-	-
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)	8,08	5,05	6,86
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)	8,08	5,05	6,86

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-DF-8240D (EPM-8240D-7.0-1.0)	-	-
	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-	-
	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-	-
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)	5,25	5,31	5,36
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)	5,25	5,31	5,36

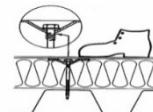
* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex G.2

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

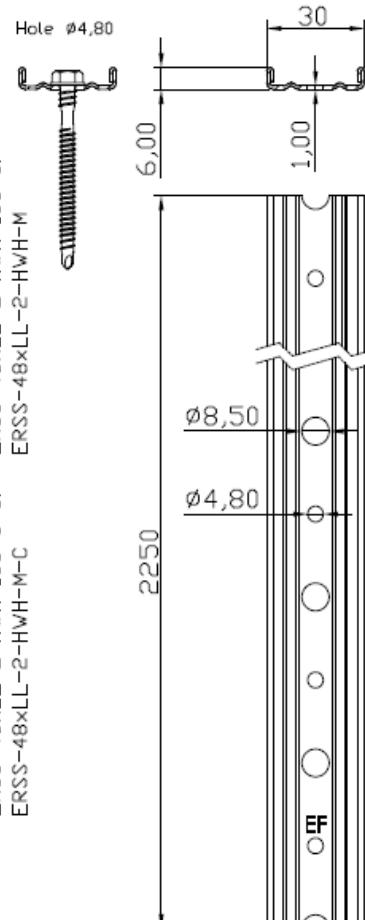
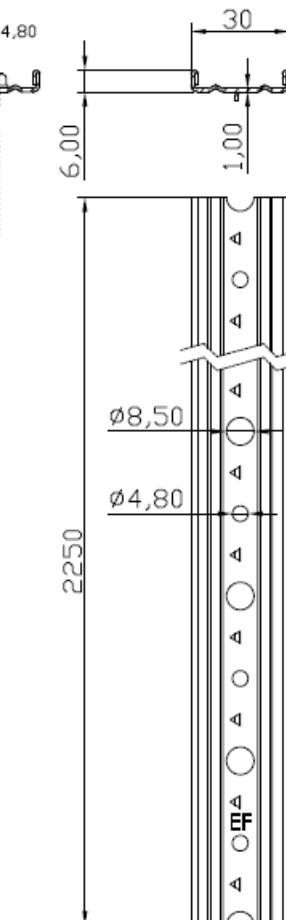
Screw:	EDS-BZT-48xLL EDS-BGT-48xLL	(ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M) (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)
Metal pressure plate:		
DVP-EF-5010DFR	(EPM-50D-4.85-1.0)	
DVP-EF-5010D	(EPM-50D-6.3-1.0)	
DVP-EF-7070D	(EPM-7070D-4.85-1.0)	
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	
DVP-EF-7010DFR	(EPM-70D-4.85-1.0)	
DVP-EF-7005D	(EPM-70D-5.0-0.5)	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	
DVP-EF-8240D	(EPM-8240D-4.85-1.0)	
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	
DVP-EF-8240XH	(EPM-8240XH-4.85-1.0)	
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)	
DVP-EFB-8240D	(EPM-B-8240D-4.85-1.0)	
DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)	
DVP-EFK-8240D	(EPM-ZK-8240D-4.85-1.0)	
DVP-EFF-8040D	(EPM-8040D-4.85-1.0)	
Termination bar:		
EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)	
EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)	
EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)	
Substrate:		
Steel S280		EN 10346
Steel S320		EN 10346
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2
Timber, class $\geq C24$	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338
Installation data:		
Max. drilling capacity in steel substrate:		2x1,25 mm
HUKAD type:		Hex Washer HUKAD 8 mm
Screws EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C / ERSS-48xLL-2-HWH-M-C):		Collated screws for use with DEK-FIX tool
Fixing in steel substrate:		Minimum 20 mm of the screw fixed through the steel sheet
Fixing in wooden or wood-based substrate:		Full thread through the substrate or minimum embedment depth
Installation force of installation tool in:		
- steel substrate	15 kg	
- wooden or wood-based substrate:	30 kg	
Installation tool speed:	2000 - 2500 rpm	
Additional feature:	Safe thread	



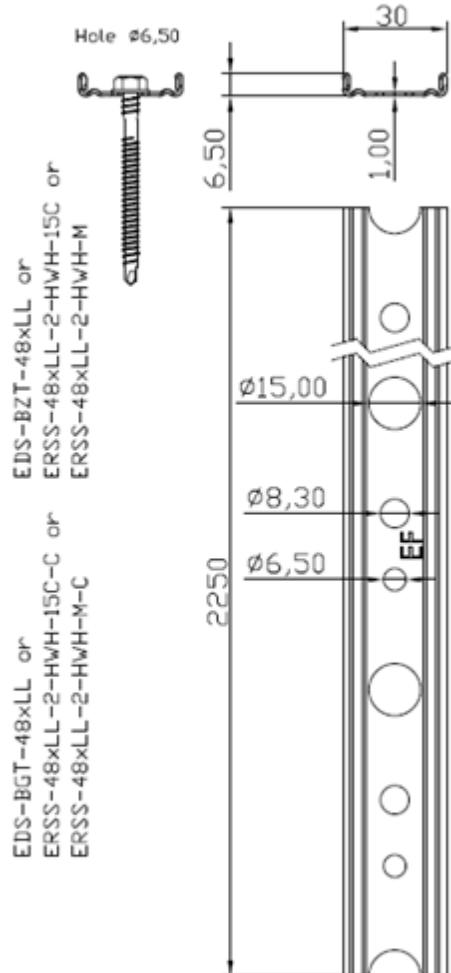
Eurofast Flat Roof Fasteners

Annex G.3

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

<p>EDS-BAR F or ETM-2250-30-4.8-8.5-1.0</p>  <p>EDS-BGT-48xLL or ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C</p> <p>EDS-BZT-48xLL or ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M</p>	<p>EDF-BAR FB or ETM-B-2250-30-4.8-8.5-1.0</p>  <p>EDS-BGT-48xLL or ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C</p> <p>EDS-BZT-48xLL or ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M</p>
<p>Eurofast Flat Roof Fasteners</p> <p>EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M) EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)</p>	<p>Annex G.4</p>

EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0



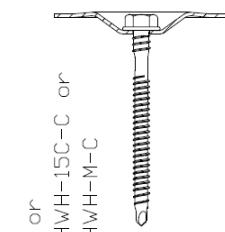
Eurofast Flat Roof Fasteners

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

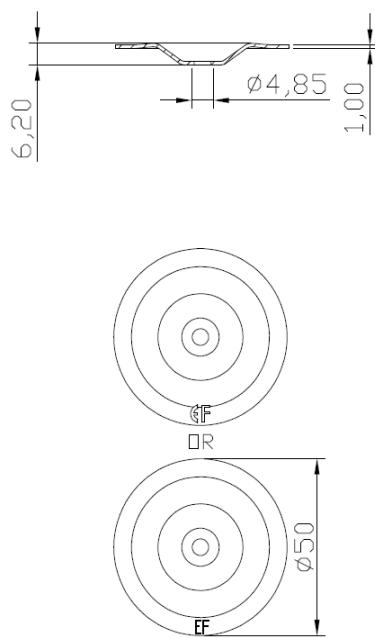
Annex G.5

DVP-EF-5010DFR or EPM-50D-4.85-1.0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

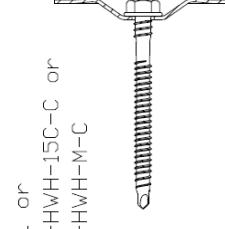


EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

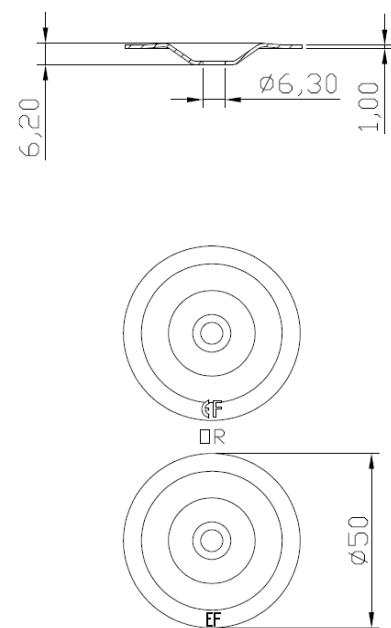


DVP-EF-5010D or EPM-50D-6.3-1.0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C



Eurofast Flat Roof Fasteners

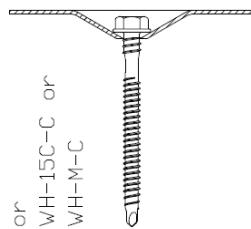
Annex G.6

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

DVP-EF-7070D or EPM-7070D-4,85-1,0

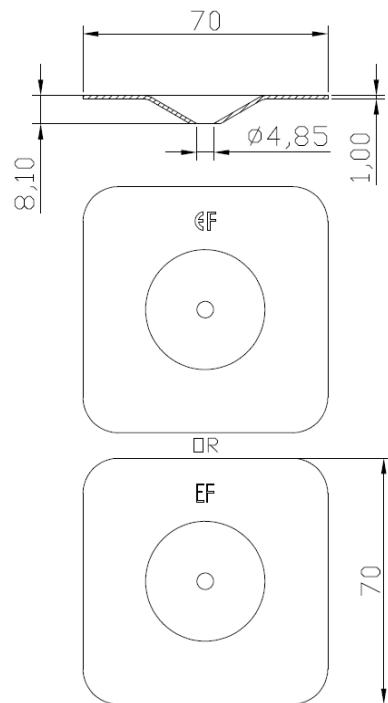
EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

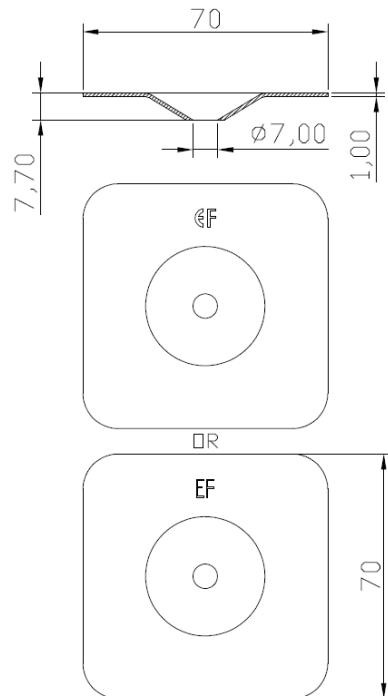
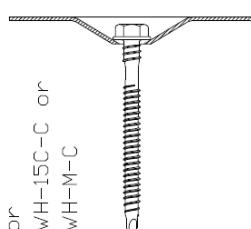
EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C



DVP-DF-7070D or EPM-7070D-7,0-1,0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



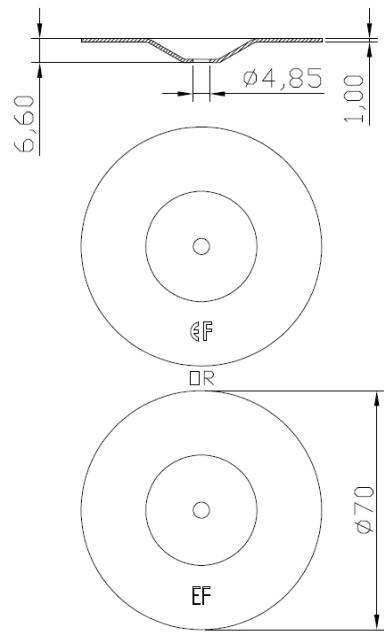
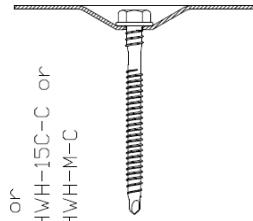
Eurofast Flat Roof Fasteners

Annex G.7

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

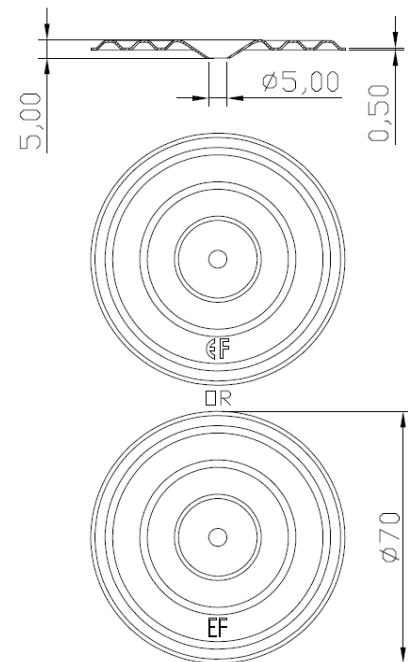
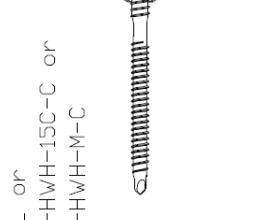
DVP-EF-7010DFR or EPM-70D-4.85-1.0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



DVP-EF-7005D or EPM-70D-5.0-0.5

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



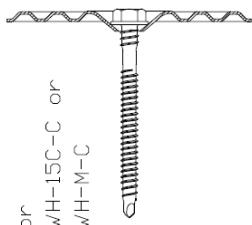
Eurofast Flat Roof Fasteners

Annex G.8

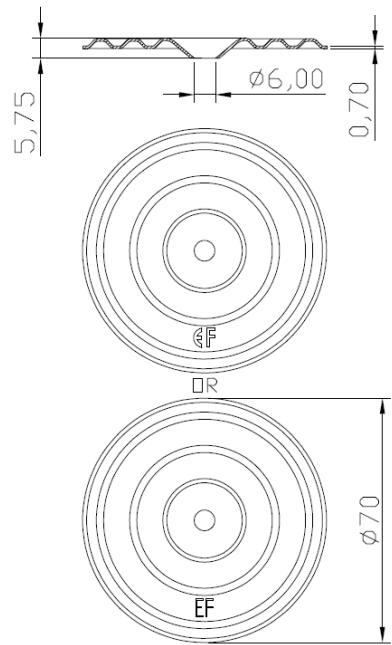
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

DVP-EF-7007D or EPM-70D-6.0-0.7

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

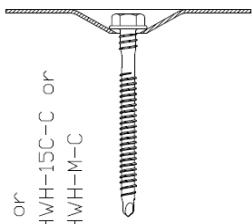


EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

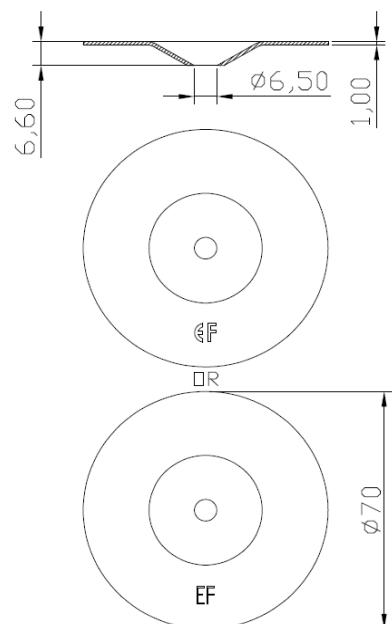


DVP-EF-7010D or EPM-70D-6.5-1.0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



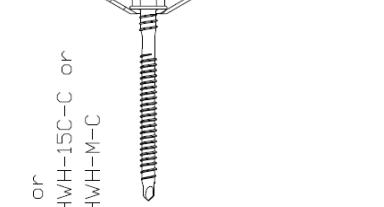
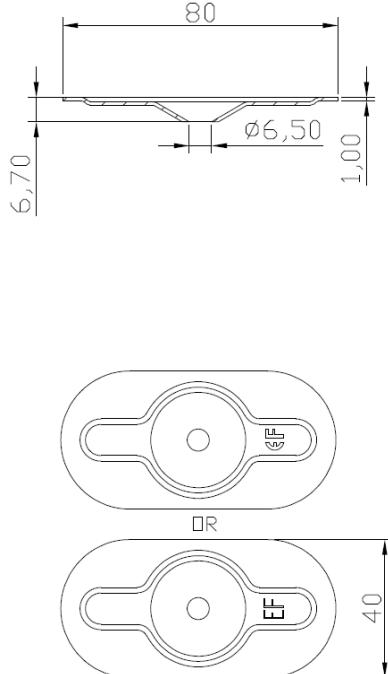
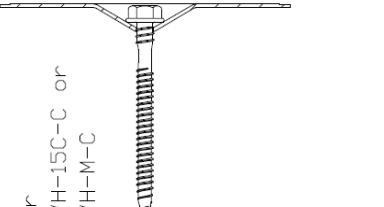
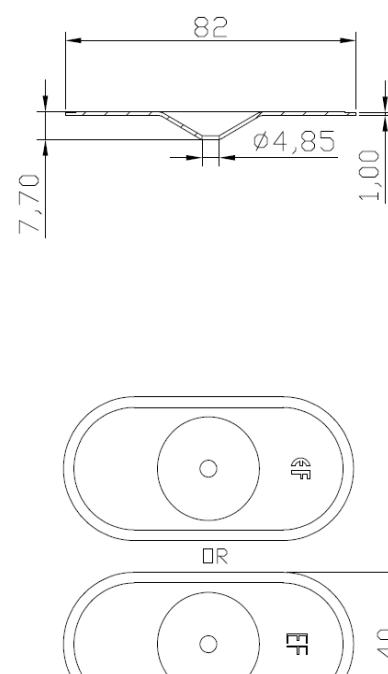
EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C



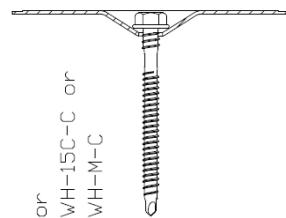
Eurofast Flat Roof Fasteners

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

Annex G.9

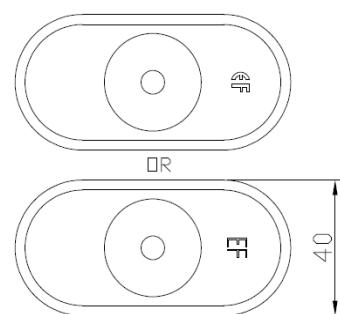
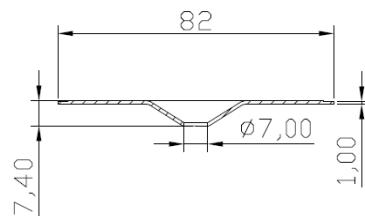
<p>DVP-EF-8040D or EPM-8040D-6.5-1.0</p>  <p>EDS-BZT-48xLL or ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M</p> <p>EDS-BGT-48xLL or ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C</p>	
<p>DVP-EF-8240D or EPM-8240D-4.85-1.0</p>  <p>EDS-BZT-48xLL or ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M</p> <p>EDS-BGT-48xLL or ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C</p>	
Eurofast Flat Roof Fasteners	Annex G.10
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M) EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)	

DVP-DF-8240D or EPM-8240D-7.00-1.0

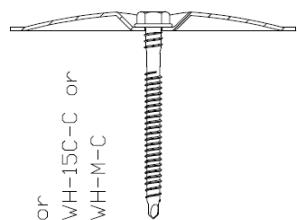


EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

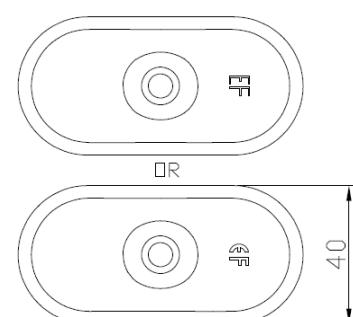
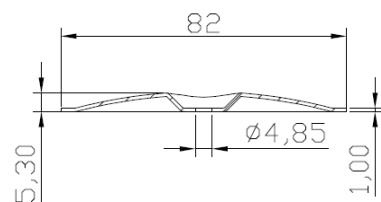


DVP-DF-8240XH or EPM-8240XH-4,85-1,0



EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

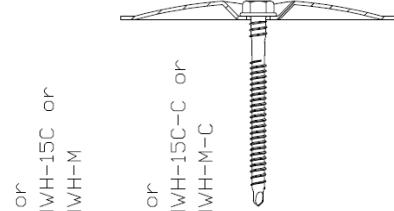


Eurofast Flat Roof Fasteners

Annex G.11

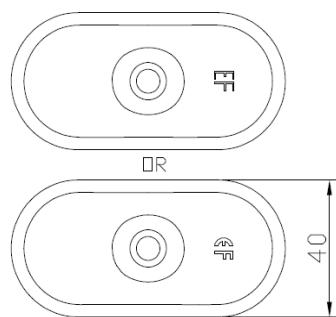
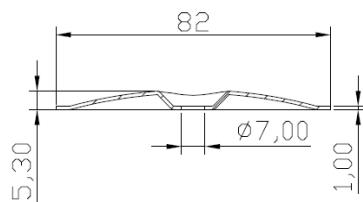
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

DVP-DF-8240XH or EPM-8240XH-7,0-1,0



EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

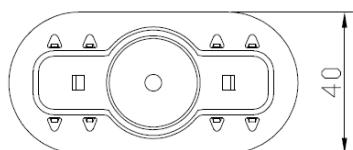
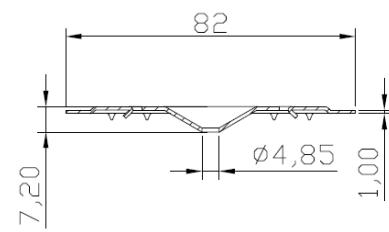
EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C



DVP-EFB-8240D or EPM-B-8240D-4,85-1,0

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

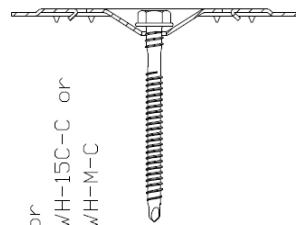


Eurofast Flat Roof Fasteners

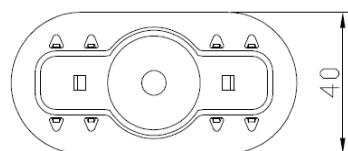
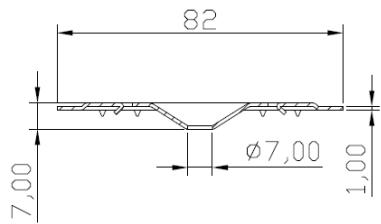
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

Annex G.12

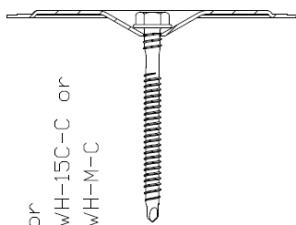
DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



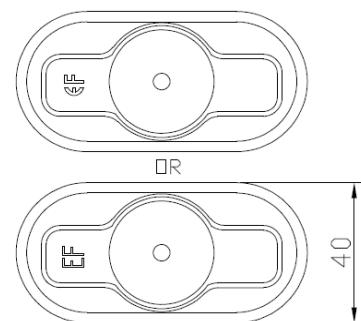
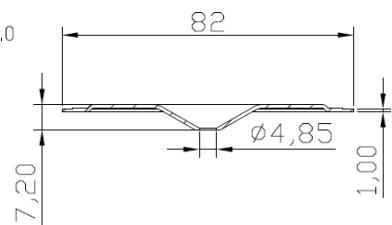
EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M



DVP-EFZK-8240D or EPM-ZK-8240D-4,85-1,0



EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C



Eurofast Flat Roof Fasteners

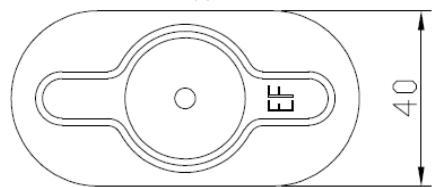
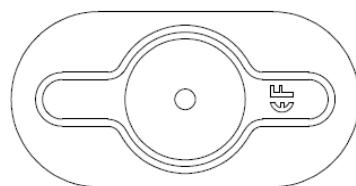
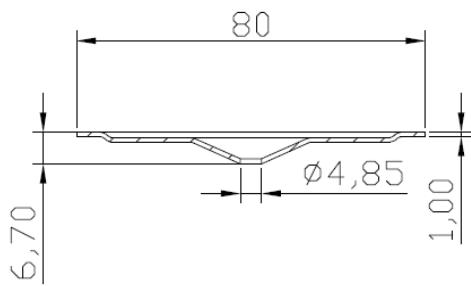
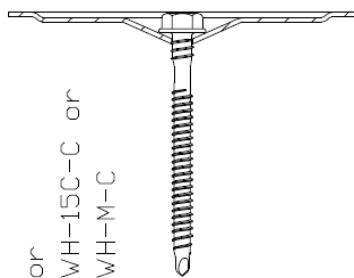
EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

Annex G.13

EDS-BZT-48xLL or
ERSS-48xLL-2-HWH-15C or
ERSS-48xLL-2-HWH-M

EDS-BGT-48xLL or
ERSS-48xLL-2-HWH-15C-C or
ERSS-48xLL-2-HWH-M-C

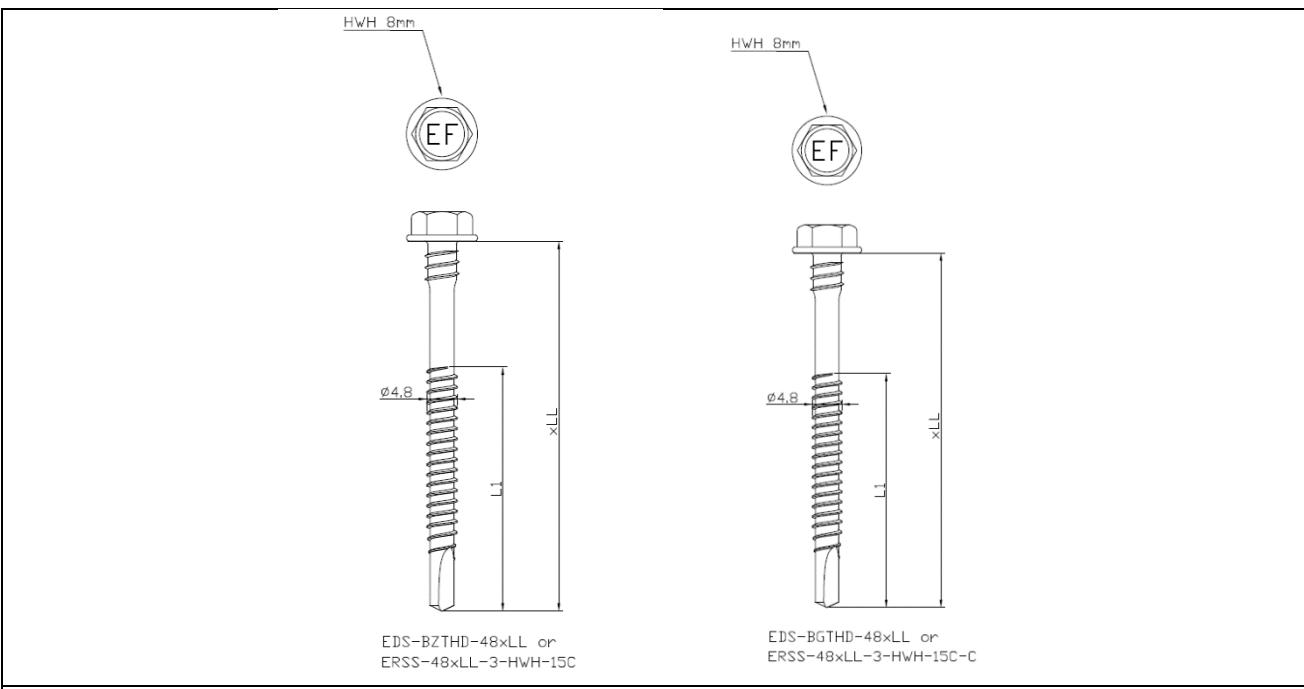
DVP-EFF-8040D or EPM-8040D-4.85-1.0



Eurofast Flat Roof Fasteners

EDS-BZT-48xLL (ERSS-48xLL-2-HWH-15C or ERSS-48xLL-2-HWH-M)
EDS-BGT-48xLL (ERSS-48xLL-2-HWH-15C-C or ERSS-48xLL-2-HWH-M-C)

Annex G.14



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)			
		Steel S320GD*	
t [mm]		1,00	1,25
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)		1,30	1,86
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)		1,30	1,86

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-DF-8240D (EPM-8240D-7.0-1.0)	-	-
	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-	-
	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-	-
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)	5,25	5,31	5,36
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)	5,25	5,31	5,36

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex H.1

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	-
EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	-
DVP-EF-5010DFR (EPM-50D-4.85-1.0)	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-
DVP-EF-7070D (EPM-7070D-4.85-1.0)	-	-	-
DVP-EF-7010DFR (EPM-70D-4.85-1.0)	-	-	-
DVP-EF-8240D (EPM-8240D-4.85-1.0)	-	-	-
DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	-	-	-
DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	-	-	-
DVP-EFZK-8240D (EPM-ZK-8240D-4.85-1.0)	-	-	-
DVP-EFF-8040D (EPM-8040D-4.85-1.0)	-	-	-
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)	8,08	5,05	6,86
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)	8,08	5,05	6,86

* "Pull-over" according to CEN/TS 17659 : 2021

Screw:

EDS-BZTHD-48xLL
(ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL
(ERSS-48xLL-3-HWH-15C-C)

Metal pressure plate:

DVP-EF-5010DFR
(EPM-50D-4.85-1.0)
DVP-EF-5010D
(EPM-50D-6.3-1.0)
DVP-EF-7070D
(EPM-7070D-4.85-1.0)
DVP-DF-7070D
(EPM-7070D-7.0-1.0)
DVP-EF-7010DFR
(EPM-70D-4.85-1.0)
DVP-EF-7005D
(EPM-70D-5.0-0.5)
DVP-EF-7007D
(EPM-70D-6.0-0.7)
DVP-EF-7010D
(EPM-70D-6.5-1.0)
DVP-EF-8040D
(EPM-8040D-6.5-1.0)
DVP-EF-8240D
(EPM-8240D-4.85-1.0)
DVP-DF-8240D
(EPM-8240D-7.0-1.0)
DVP-EF-8240XH
(EPM-8240XH-4.85-1.0)
DVP-DF-8240XH
(EPM-8240XH-7.0-1.0)
DVP-EFB-8240D
(EPM-B-8240D-4.85-1.0)
DVP-DFB-8240D
(EPM-B-8240D-7.0-1.0)
DVP-EFZK-8240D
(EPM-ZK-8240D-4.85-1.0)
DVP-EFF-8040D
(EPM-8040D-4.85-1.0)

Termination bar:

EDF-BAR F
(ETM-2250-30-4.8-8.5-1.0)
EDF-BAR FB
(ETM-B-2250-30-4.8-8.5-1.0)
EDF-BAR F-TUBE
(ETM-T-2250-30-6.5-8.3-15.0-1.0)

Substrate:

Steel S280
Steel S320

EN 10346

EN 10346

Installation data:

Max. drilling capacity in steel substrate:

2x1,50 mm

HUKAD type:

Hex Washer HUKAD 8 mm

Screws EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C):

Collated screws for use with DEK-FIX tool

Fixing in steel substrate:

Minimum 20 mm of the screw fixed through the steel sheet

Installation force of installation tool:

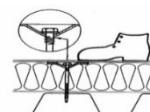
15 kg

Installation tool speed:

2000 - 2500 rpm

Additional feature:

Safe thread

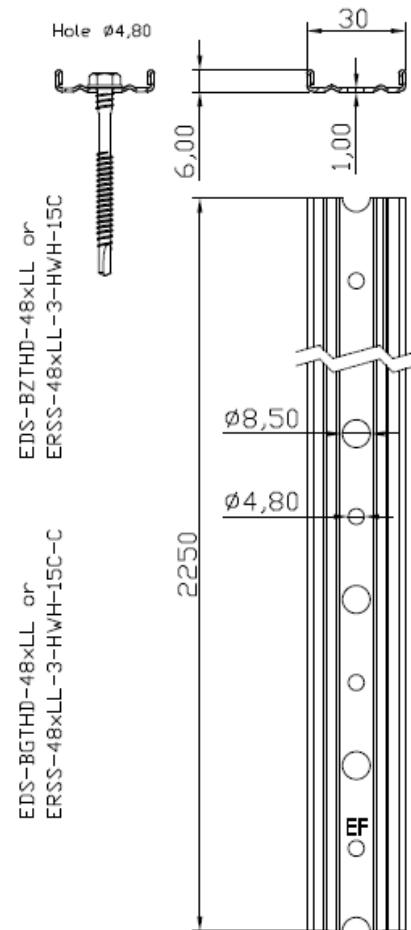


Eurofast Flat Roof Fasteners

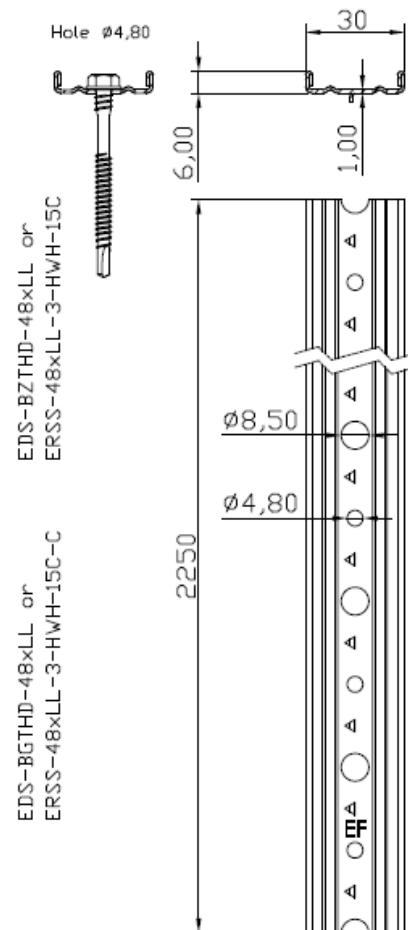
Annex H.2

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

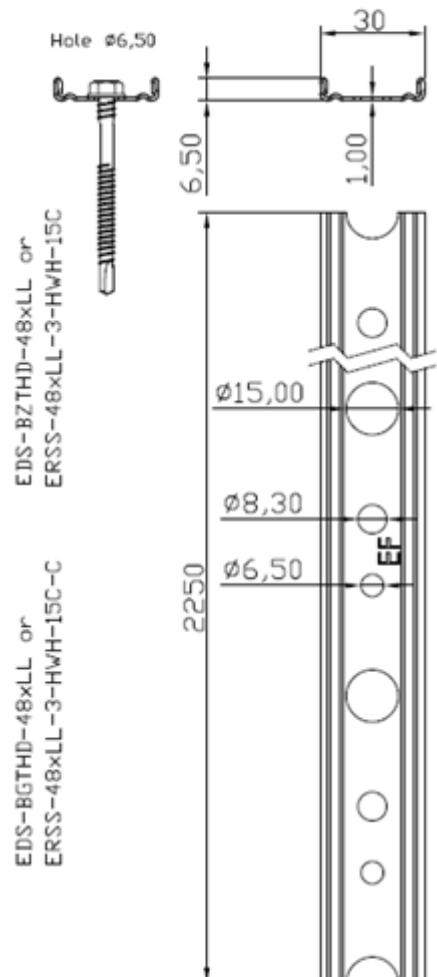


Eurofast Flat Roof Fasteners

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.3

EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0



Eurofast Flat Roof Fasteners

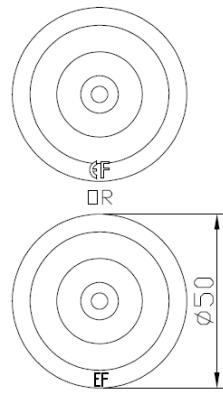
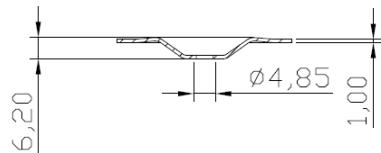
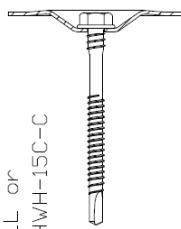
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.4

DVP-EF-5010DFR or EPM-50D-4.85-1.0

EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

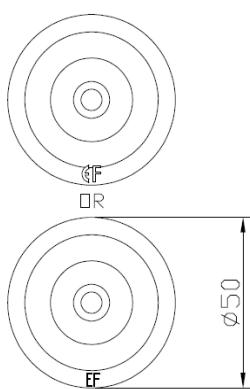
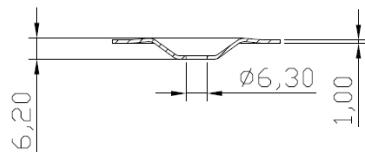
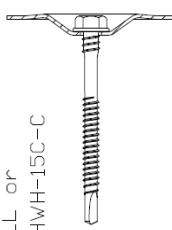
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C



DVP-EF-5010D or EPM-50D-6.3-1.0

EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

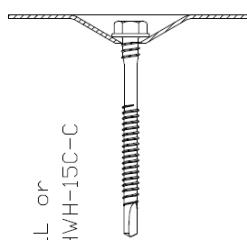


Eurofast Flat Roof Fasteners

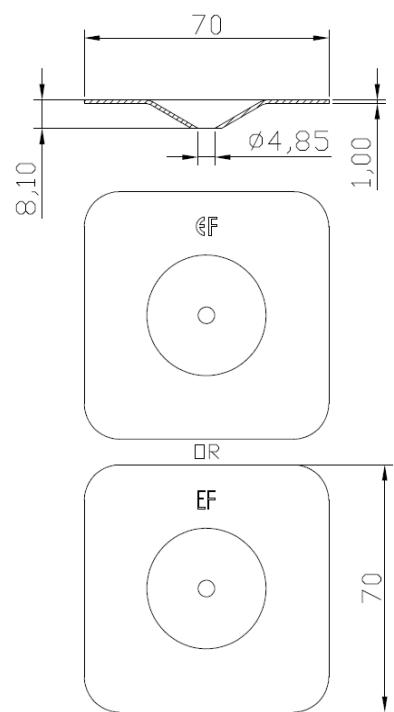
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.5

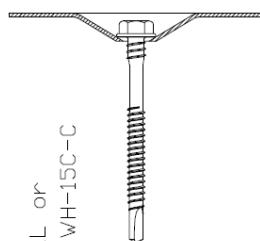
DVP-EF-7070D or EPM-7070D-4.85-1.0



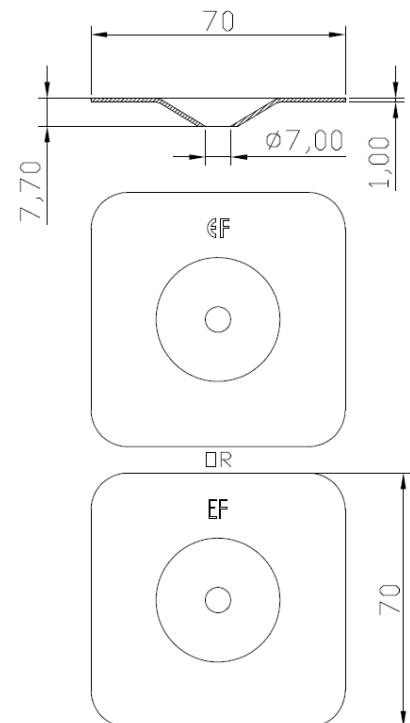
EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C



DVP-DF-7070D or EPM-7070D-7.0-1.0



EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

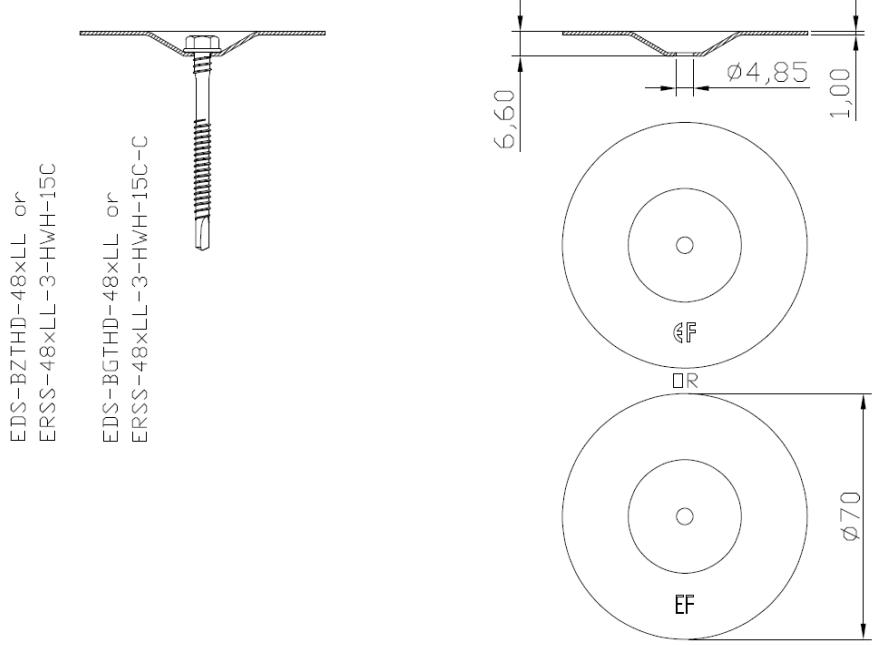


Eurofast Flat Roof Fasteners

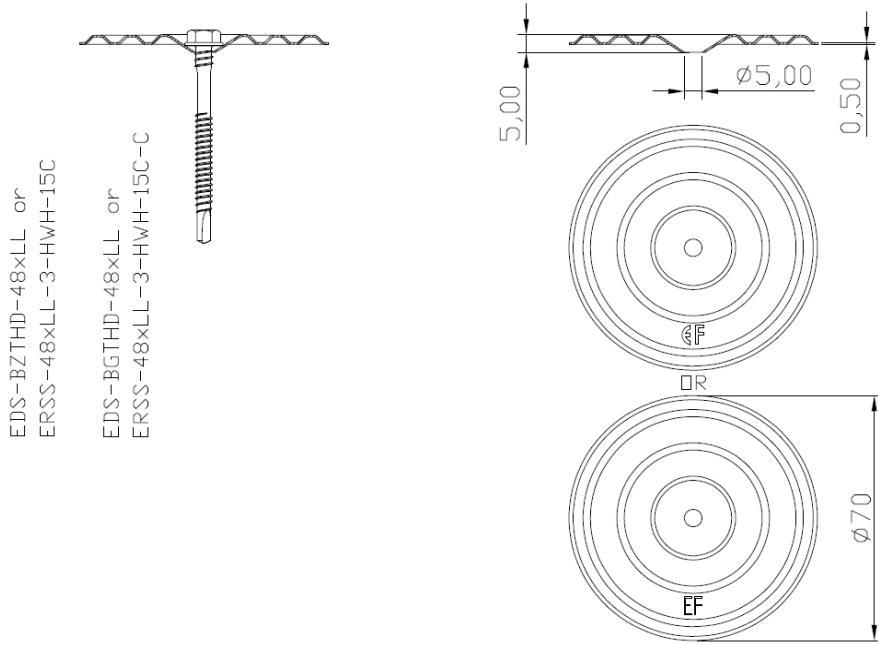
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.6

DVP-EF-7010DFR or EPM-70D-4.85-1.0



DVP-EF-7005D or EPM-70D-5.0-0.5



Eurofast Flat Roof Fasteners

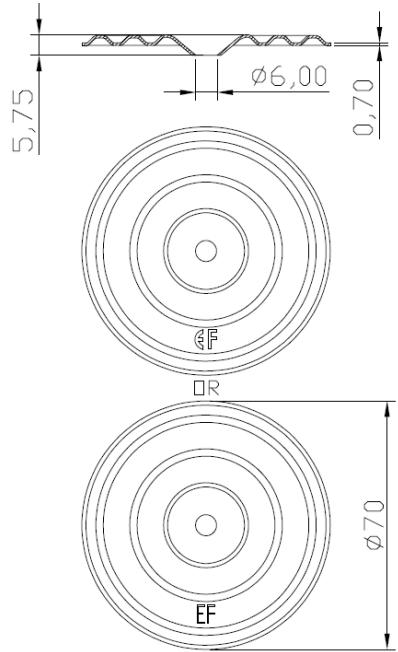
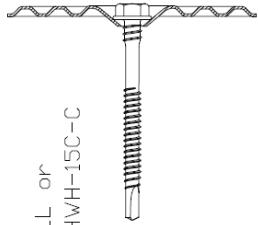
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.7

DVP-EF-7007D or EPM-70D-6.0-0.7

EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

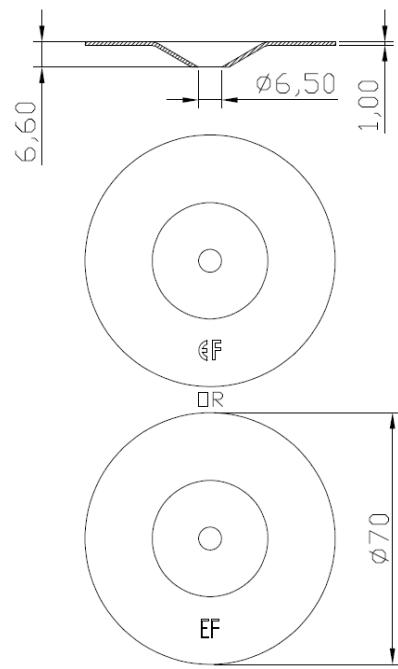
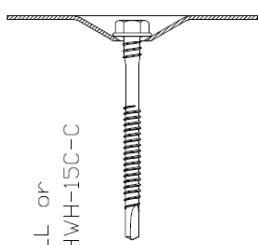
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C



DVP-EF-7010D or EPM-70D-6.5-1.0

EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

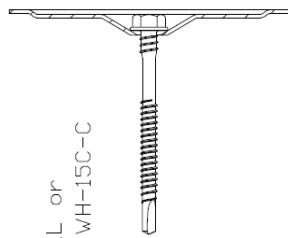


Eurofast Flat Roof Fasteners

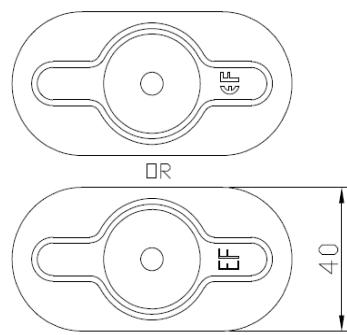
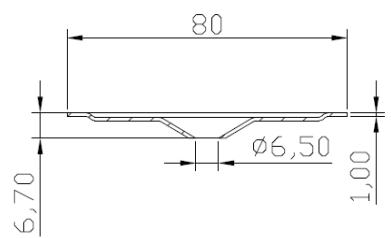
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.8

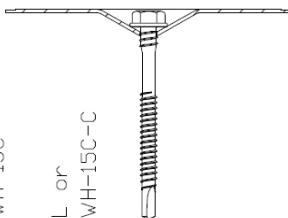
DVP-EF-8040D or EPM-8040D-6,5-1,0



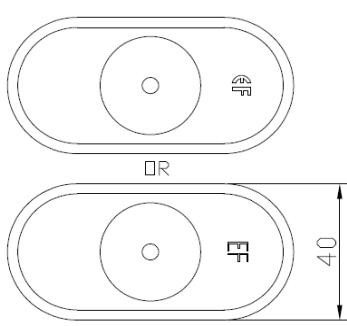
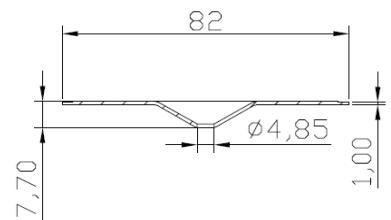
EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C



DVP-EF-8240D or EPM-8240D-4,85-1,0



EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

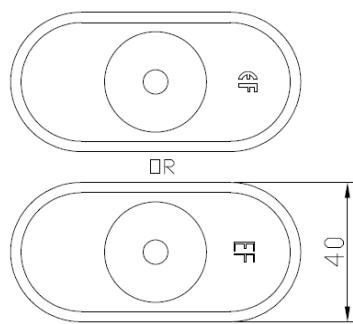
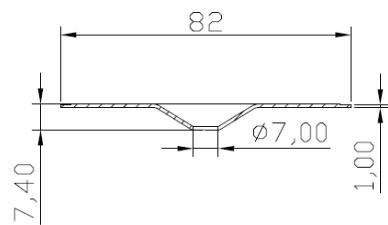
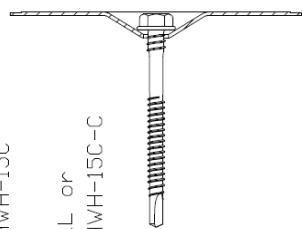


Eurofast Flat Roof Fasteners

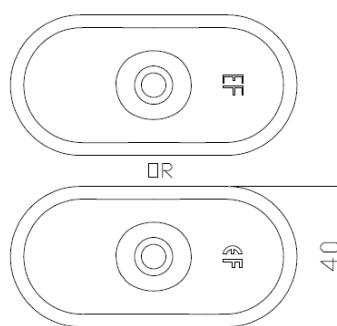
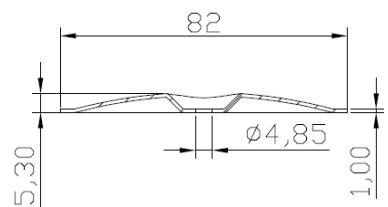
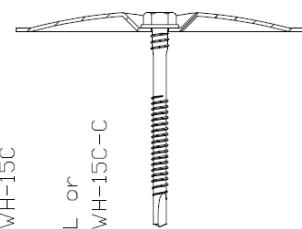
EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.9

DVP-DF-8240D or EPM-8240D-7.00-1.0



DVP-DF-8240XH or EPM-8240XH-4.85-1.0

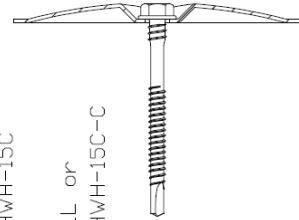


Eurofast Flat Roof Fasteners

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

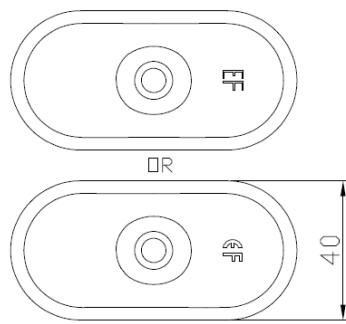
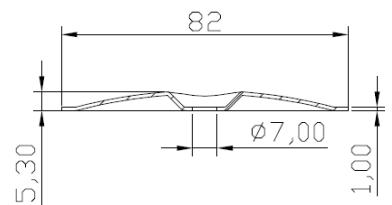
Annex H.10

DVP-DF-8240XH or EPM-8240XH-7,0-1,0

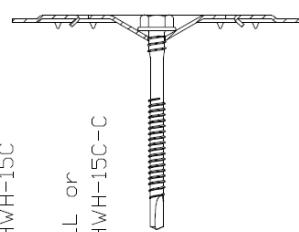


EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

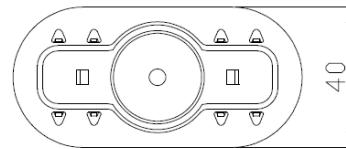
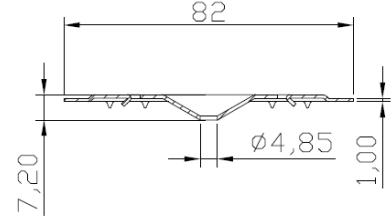


DVP-EFB-8240D or EPM-B-8240D-4,85-1,0



EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

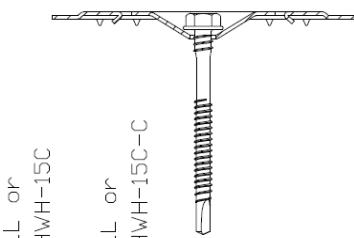


Eurofast Flat Roof Fasteners

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

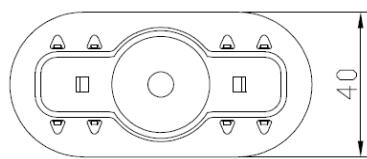
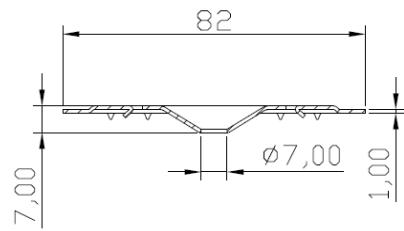
Annex H.11

DVP-DFB-8240D or EPM-B-8240D-7.0-1.0

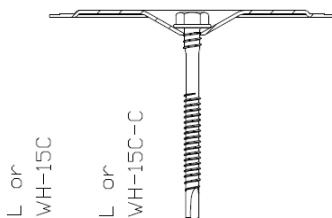


EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

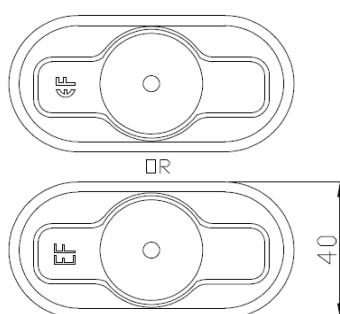
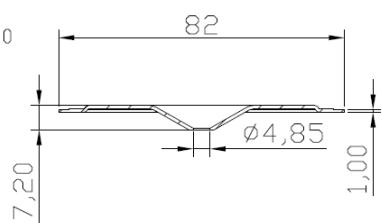


DVP-EFZK-8240D or EPM-ZK-8240D-4.85-1.0



EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C

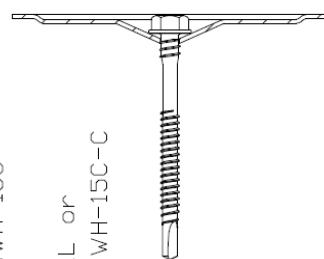


Eurofast Flat Roof Fasteners

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

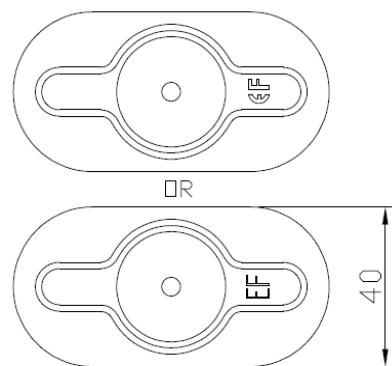
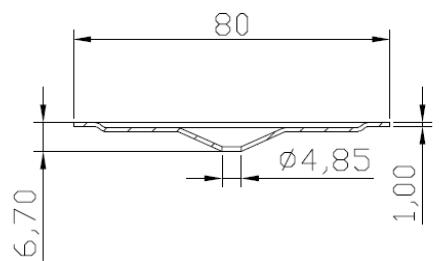
Annex H.12

DVP-EFF-8040D or EPM-8040D-4.85-1.0



EDS-BZTHD-48xLL or
ERSS-48xLL-3-HWH-15C

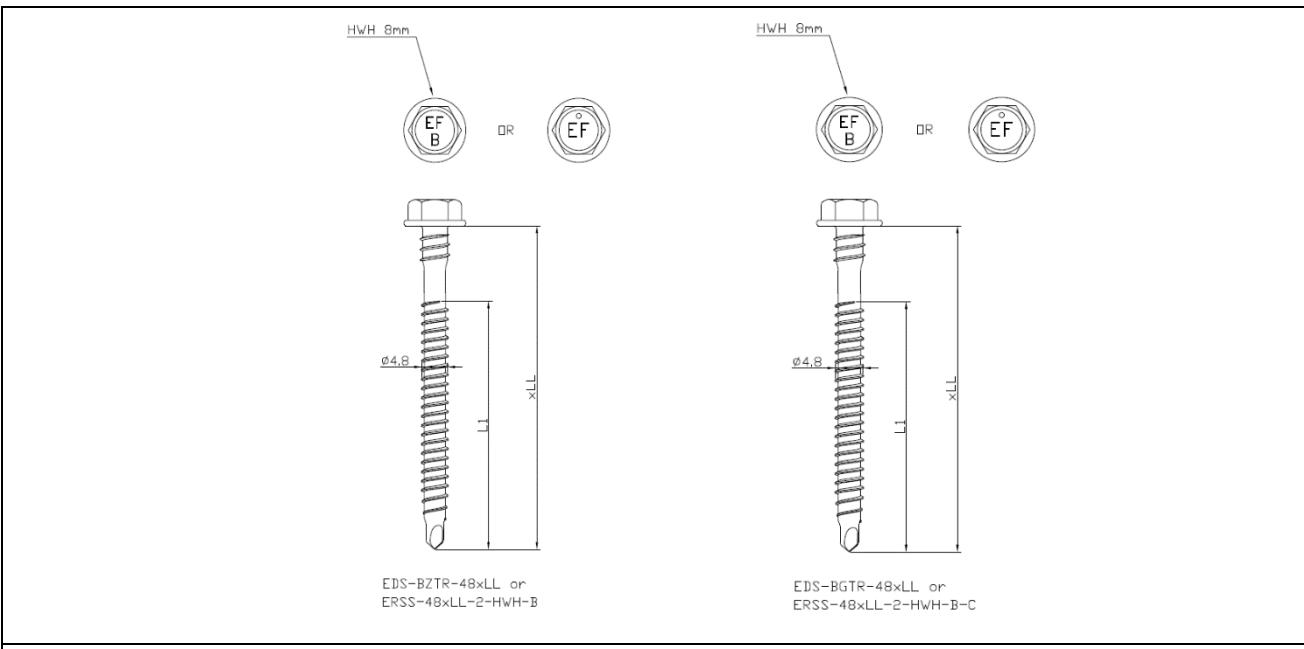
EDS-BGTHD-48xLL or
ERSS-48xLL-3-HWH-15C-C



Eurofast Flat Roof Fasteners

EDS-BZTHD-48xLL (ERSS-48xLL-3-HWH-15C)
EDS-BGTHD-48xLL (ERSS-48xLL-3-HWH-15C-C)

Annex H.13



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)									
	Steel S320GD*						Aluminium		
t [mm]	0,70	0,75	0,80	0,88	1,00	1,25	0,80	0,85	1,00
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)	1,15	1,17	1,31	1,31	1,36	2,23	0,71	0,75	1,02
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)	1,15	1,17	1,31	1,31	1,36	2,23	0,71	0,75	1,02

* when using steel S280GD, values must be reduced by 8%

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)							
	OSB/3			Chipboard	Plywood		Timber C24
t [mm]	18	21	25	19	18	21	24
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)	1,12	1,12	1,30	1,16	1,01	1,07	1,75
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)	1,12	1,12	1,30	1,16	1,01	1,07	1,75

Eurofast Flat Roof Fasteners

Annex I.1

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-
	DVP-EF-5010DFR (EPM-50D-4.85-1.0)	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-
	DVP-EF-7070D (EPM-7070D-4.85-1.0)	-	-
	DVP-EF-7010DFR (EPM-70D-4.85-1.0)	-	-
	DVP-EF-8240D (EPM-8240D-4.85-1.0)	-	-
	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	-	-
	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	-	-
	DVP-EFK-8240D (EPM-ZK-8240D-4.85-1.0)	-	-
	DVP-EFF-8040D (EPM-8040D-4.85-1.0)	-	-
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)	8,08	5,05	6,86
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)	8,08	5,05	6,86

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7005D (EPM-70D-5.0-0.5)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-DF-8240D (EPM-8240D-7.0-1.0)	-	-
	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-	-
	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-	-
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)	5,25	5,31	5,36
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)	5,25	5,31	5,36

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex I.2

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Screw:
 EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
 EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Metal pressure plate:
 DVP-EF-5010DFR (EPM-50D-4.85-1.0)
 DVP-EF-5010D (EPM-50D-6.3-1.0)
 DVP-EF-7070D (EPM-7070D-4.85-1.0)
 DVP-DF-7070D (EPM-7070D-7.0-1.0)
 DVP-EF-7010DFR (EPM-70D-4.85-1.0)
 DVP-EF-7005D (EPM-70D-5.0-0.5)
 DVP-EF-7007D (EPM-70D-6.0-0.7)
 DVP-EF-7010D (EPM-70D-6.5-1.0)
 DVP-EF-8040D (EPM-8040D-6.5-1.0)
 DVP-EF-8240D (EPM-8240D-4.85-1.0)
 DVP-DF-8240D (EPM-8240D-7.0-1.0)
 DVP-EF-8240XH (EPM-8240XH-4.85-1.0)
 DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
 DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)
 DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
 DVP-EFZK-8240D (EPM-ZK-8240D-4.85-1.0)
 DVP-EFF-8040D (EPM-8040D-4.85-1.0)

Termination bar:
 EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)
 EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)
 EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)

Substrate:
 Steel S280 EN 10346
 Steel S320 EN 10346
 Aluminium EN 485
 OSB/3 EN 12369-1
 Chipboard EN 12369-1
 Plywood EN 12369-2
 Timber, class ≥ C24 EN 338
 $R_m \geq 195 \text{ N/mm}^2$
 $\rho_{min} = 550 \text{ kg/m}^3$
 $\rho_{min} = 600 \text{ kg/m}^3$
 $\rho_{min} = 400 \text{ kg/m}^3$
 $\rho_{min} = 350 \text{ kg/m}^3$

Installation data:

Max. drilling capacity in steel substrate:

2 x 1,25 mm

HUKAD type:

Hex Washer HUKAD 8 mm

Screws EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C):

Collated screws for use with **DEK-FIX** tool

Fixing in steel substrate:

Minimum 30 mm fixed through the steel sheet

Fixing in aluminium substrate:

Minimum 30 mm fixed through the aluminium sheet

Fixing in wooden and wood-based substrate:

Full thread through the substrate or minimum embedment depth

Installation force of installation tool in:

35 kg

- steel and aluminium substrate

45 kg

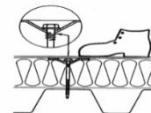
- wooden and wood-based substrate

1600 -1800 rpm

Installation tool speed:

Safe thread

Additional feature:

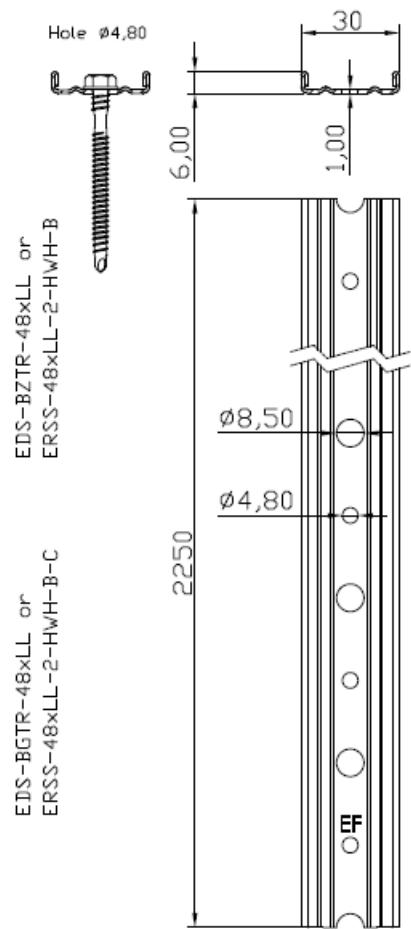


Eurofast Flat Roof Fasteners

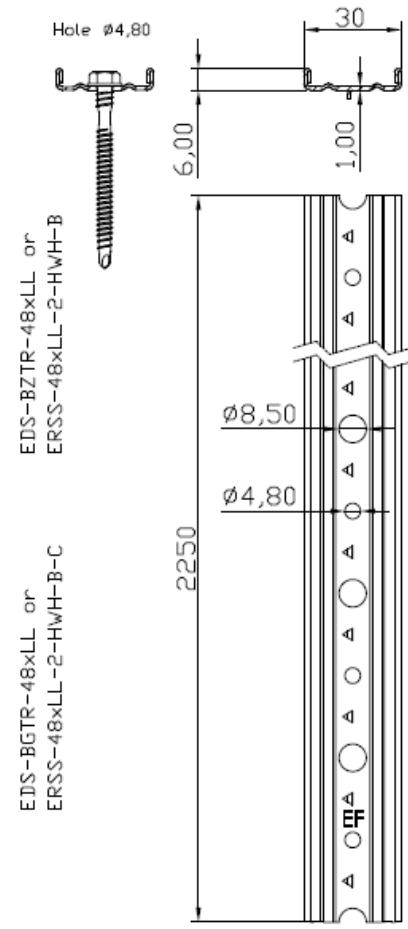
Annex I.3

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
 EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



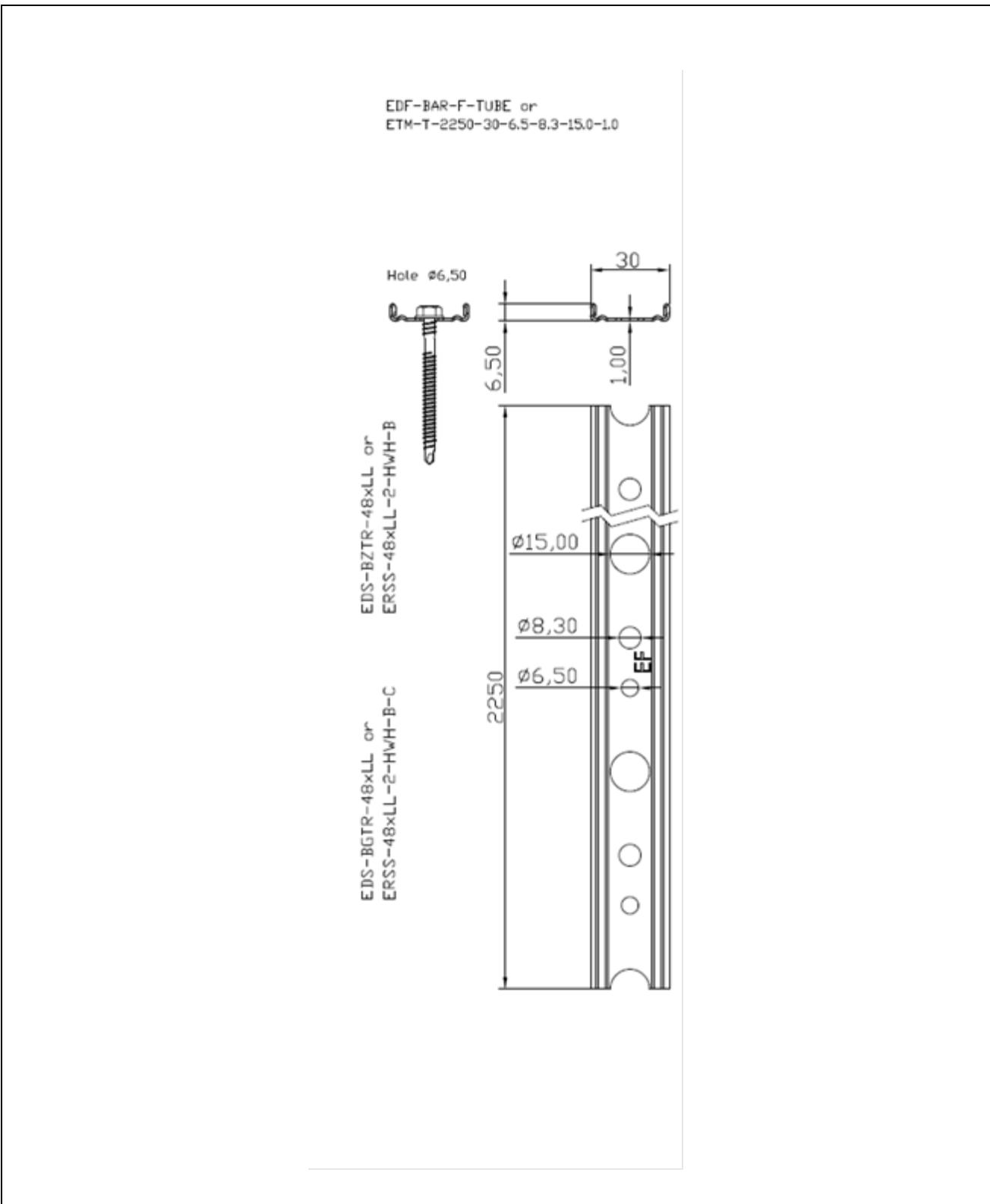
EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0



Eurofast Flat Roof Fasteners

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.4



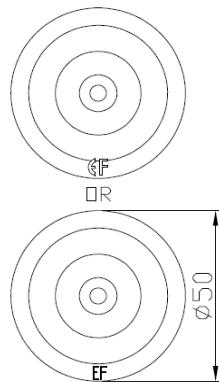
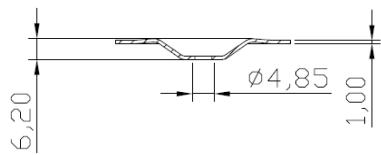
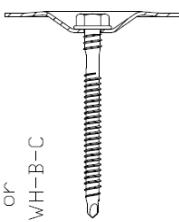
Eurofast Flat Roof Fasteners

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.5

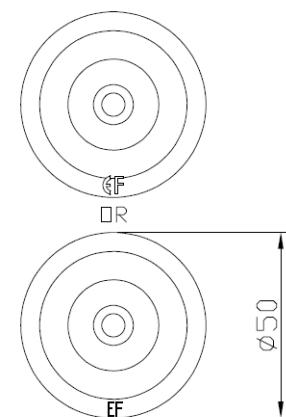
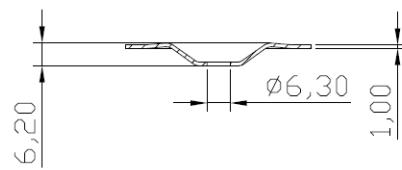
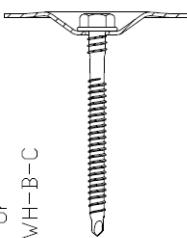
DVP-EF-5010DFR or EPM-50D-4.85-1.0

EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-EF-5010D or EPM-50D-6.3-1.0

EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

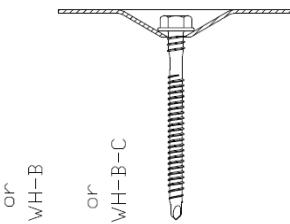


Eurofast Flat Roof Fasteners

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

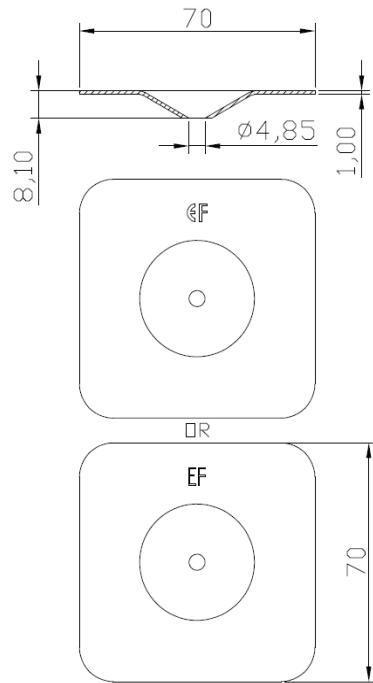
Annex I.6

DVP-EF-7070D or EPM-7070D-4,85-1,0

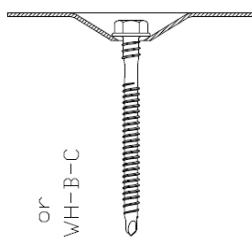


EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B

EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

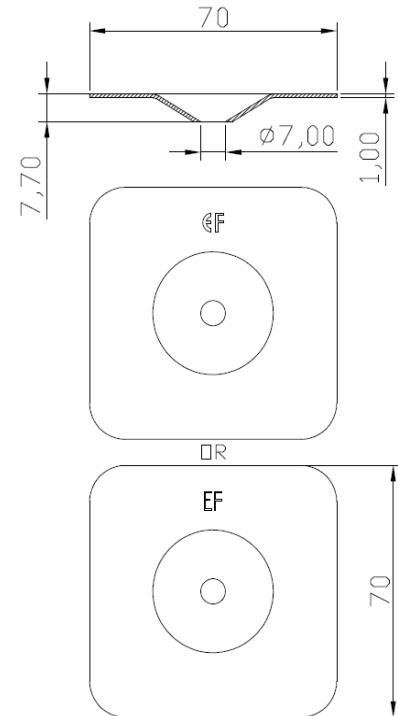


DVP-DF-7070D or EPM-7070D-7,0-1,0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B

EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

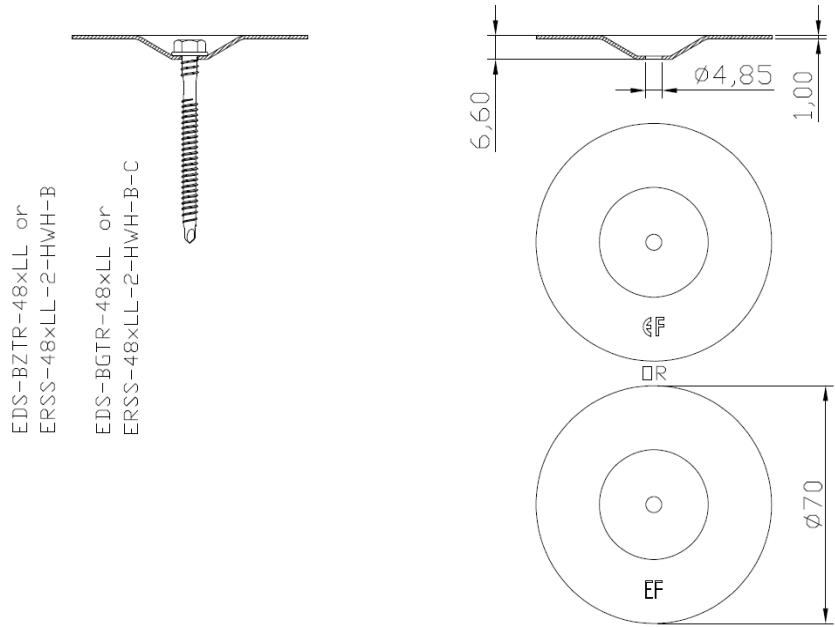


Eurofast Flat Roof Fasteners

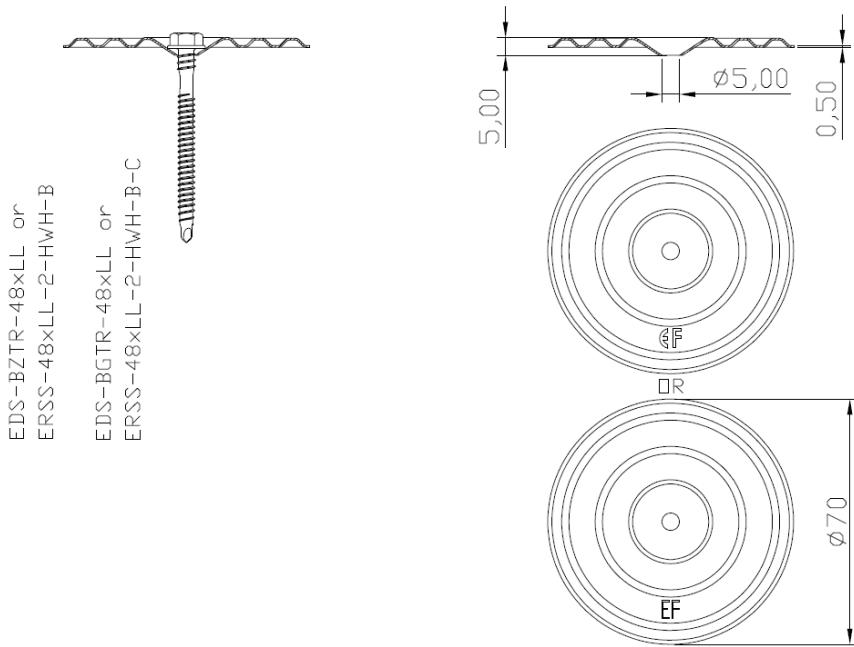
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.7

DVP-EF-7010DFR or EPM-70D-4,85-1,0



DVP-EF-7005D or EPM-70D-5,0-0,5

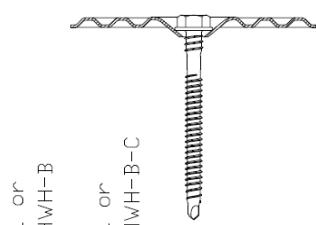


Eurofast Flat Roof Fasteners

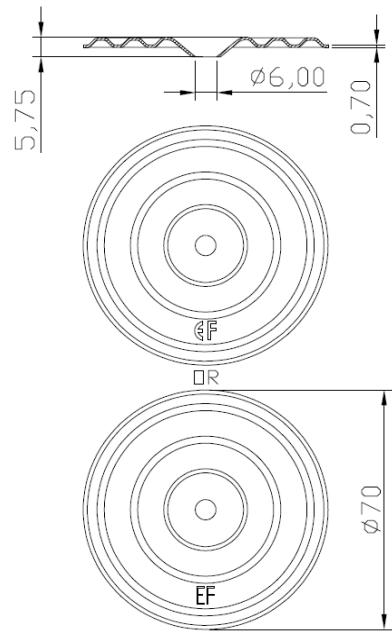
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.8

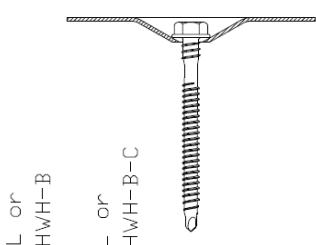
DVP-EF-7007D or EPM-70D-6.0-0,7



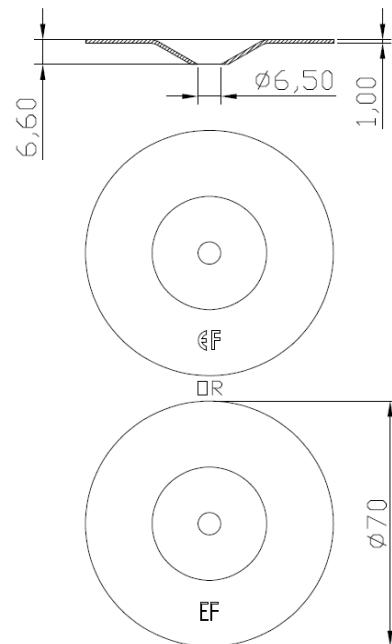
EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-EF-7010D or EPM-70D-6.5-1.0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

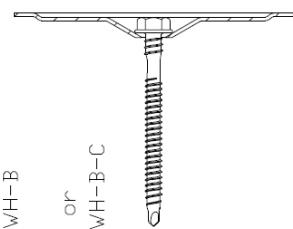


Eurofast Flat Roof Fasteners

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

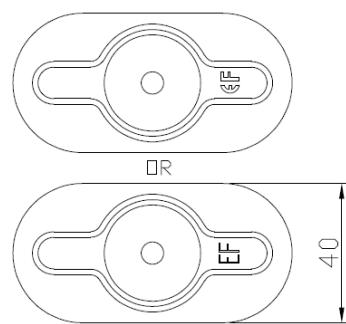
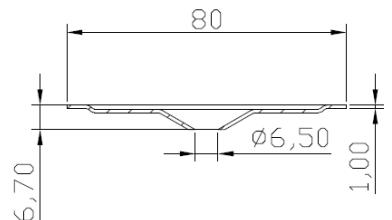
Annex I.9

DVP-EF-8040D or EPM-8040D-6.5-1.0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B

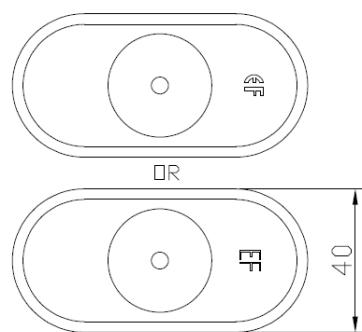
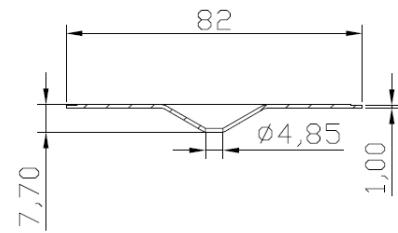
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-EF-8240D or EPM-8240D-4.85-1.0

EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B

EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

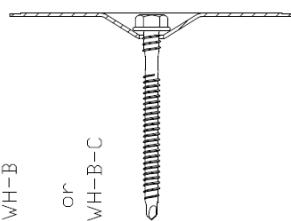


Eurofast Flat Roof Fasteners

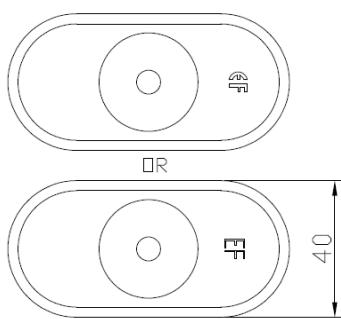
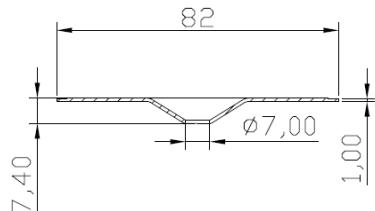
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.10

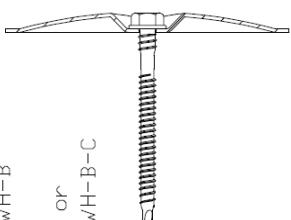
DVP-DF-8240D or EPM-8240D-7.00-1.0



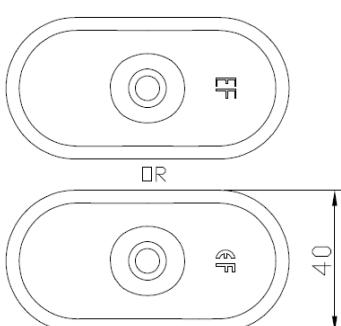
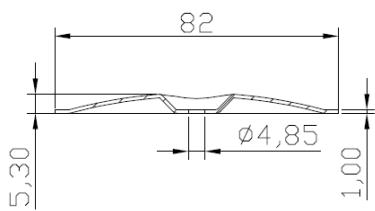
EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-DF-8240XH or EPM-8240XH-4.85-1.0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

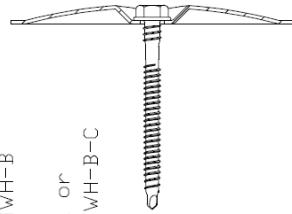


Eurofast Flat Roof Fasteners

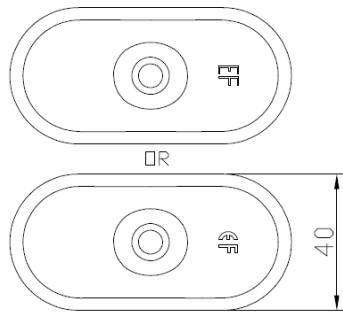
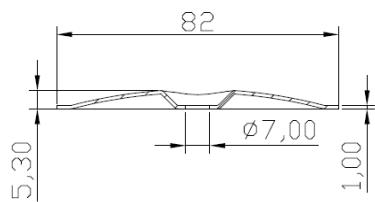
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.11

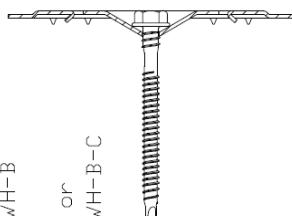
DVP-DF-8240XH or EPM-8240XH-7,0-1,0



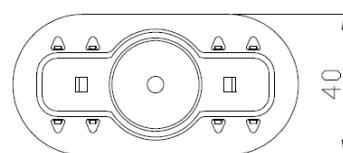
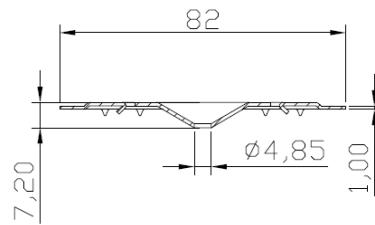
EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-EFB-8240D or EPM-B-8240D-4,85-1,0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

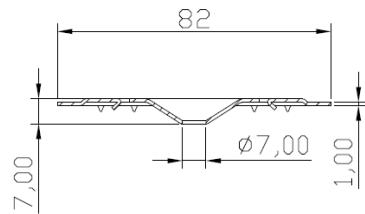
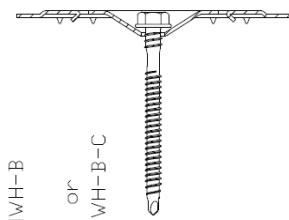


Eurofast Flat Roof Fasteners

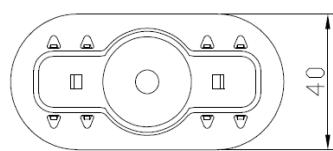
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.12

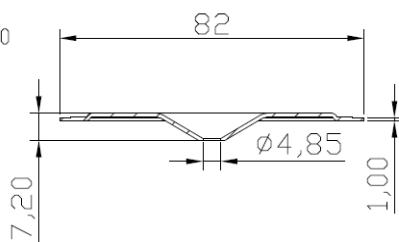
DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



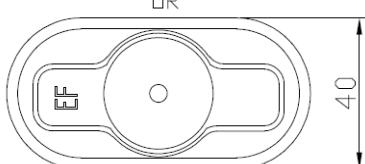
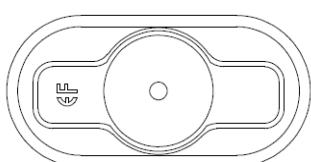
EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C



DVP-EFZK-8240D or EPM-ZK-8240D-4,85-1,0



EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B
EDS-BGTR-48xLL or
ERSS-48xLL-2-HWH-B-C

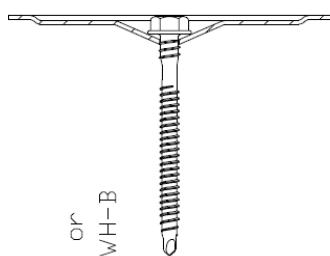


Eurofast Flat Roof Fasteners

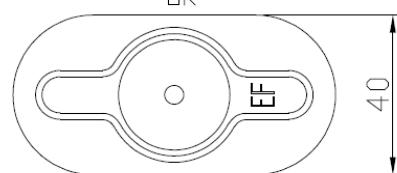
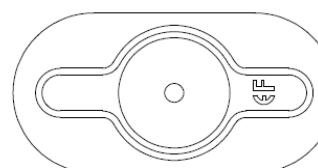
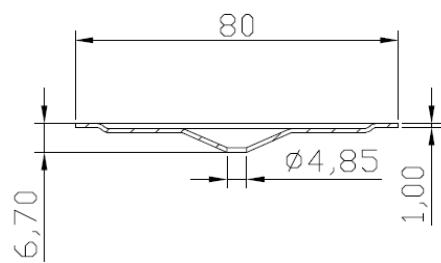
EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.13

DVP-EFF-8040D or EPM-8040D-4.85-1.0



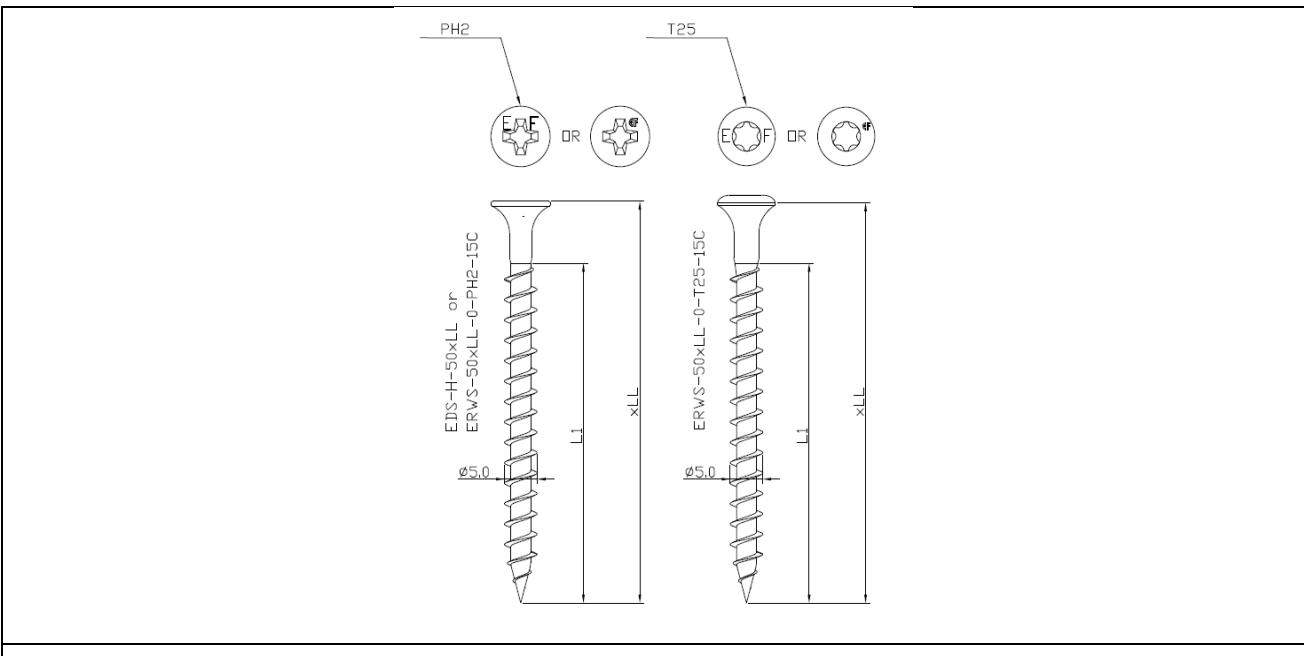
EDS-BZTR-48xLL or
ERSS-48xLL-2-HWH-B



Eurofast Flat Roof Fasteners

EDS-BZTR-48xLL (ERSS-48xLL-2-HWH-B)
EDS-BGTR-48xLL (ERSS-48xLL-2-HWH-B-C)

Annex I.14



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)	OSB/3			Chipboard	Plywood		Timber C24	
	t [mm]	18	21	25	19	18	21	24
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)		1,17	1,20	1,28	1,18	1,06	1,21	2,00
ERWS-50xLL-0-T25-15C		1,17	1,20	1,28	1,18	1,06	1,21	2,00

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
DVP-EF-7007D (EPM-70D-6.0-0.7)	DVP-EFB-51NS (EPM-B-51N-5.4-0.84)	DVP-EF-51N (EPM-51N-6.7-0.84)	DVP-EF-4010N3 (EPM-N3-40N-5.85-1.0)	EPM-51N-5.6-0.84	
DVP-EF-7007H (EPM-70H-6.0-0.7)	-	-	DVP-EF-5010N3 (EPM-N3-50N-5.85-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007N (EPM-70N-6.0-0.7)	-	-	-	EPM-IT-80-6.8-0.8	
-	-	-	-	EPM-IE-80-6.8-0.8	
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)	2,91	3,87	2,93	3,96	2,92
ERWS-50xLL-0-T25-15C	2,91	3,87	2,93	3,96	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners		Annex J.1
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C) ERWS-50xLL-0-T25-15C		

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)				
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	
	TRP-45xLL (EPT-45xLL-PA)	HTLK-45xLL (EPT-O-45xLL-PP)	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	
	BTRP-45xLL (EPT-B-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	DVP-EF-5010DFR (EPM-50D-4.85-1.0)	
	TWP-8040xLL (EPT-8040xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	DVP-EF-7070D (EPM-7070D-4.85-1.0)	
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	DVP-EF-7010DFR (EPM-70D-4.85-1.0)	
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	DVP-EF-8240D (EPM-8240D-4.85-1.0)	
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EF-8240XH (EPM-8240XH-4.85-1.0)	
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EFB-8240D (EPM-B-8240D-4.85-1.0)	
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	DVP-EFZK-8240D (EPM-ZK-8240D-4.85-1.0)	
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	DVP-EFF-8040D (EPM-8040D-4.85-1.0)	
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)	2,67	1,77		5,18
ERWS-50xLL-0-T25-15C	2,67	1,77		5,18

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7005D (EPM-70D-5.0-0.5)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7005N (EPM-70N-5.1-0.5)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	-
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)	5,05	4,43	3,89	2,96	2,36
ERWS-50xLL-0-T25-15C	5,05	4,43	3,89	2,96	2,36

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners	Annex J.2
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C) ERWS-50xLL-0-T25-15C	

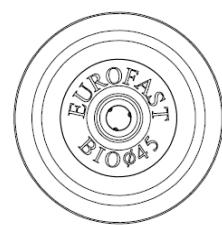
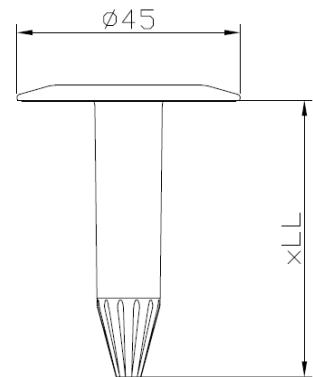
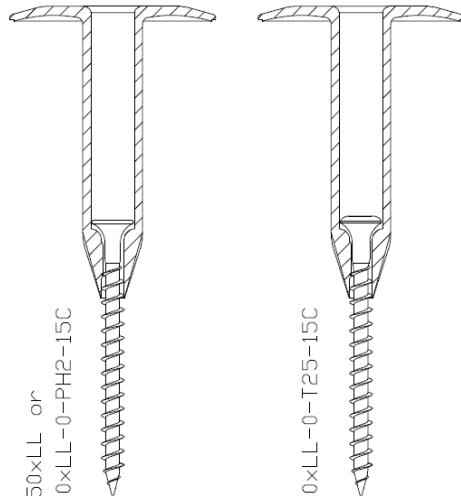
Screw:	EDS-H-50xLL (ERWS-50xLL-0-PH2-15C) ERWS-50xLL-0-T25-15C		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	EPM-51N-5.6-0.84	
DVP-EF-5010DFR	(EPM-50D-4.85-1.0)	DVP-EFB-8240D	(EPM-B-8240D-4.85-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-EFK-8240D	(EPM-ZK-8240D-4.85-1.0)
DVP-EF-7070D	(EPM-7070D-4.85-1.0)	DVP-EF-4010N3	(EPM-N3-40N-5.85-1.0)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	DVP-EF-5010N3	(EPM-N3-50N-5.85-1.0)
DVP-EF-7010DFR	(EPM-70D-4.85-1.0)	DVP-EFF-8040D	(EPM-8040D-4.85-1.0)
DVP-EF-7005D	(EPM-70D-5.0-0.5)	EPM-IP-80-6.8-0.8	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IE-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7005N	(EPM-70N-5.1-0.5)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7007N	(EPM-70N-6.0-0.7)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-EF-8240D	(EPM-8240D-4.85-1.0)		
DVP-DF-8240D	(EPM-8240D-7.0-1.0)		
DVP-DF-8240H	(EPM-8240H-7.0-1.0)		
DVP-EF-8240XH	(EPM-8240XH-4.85-1.0)		
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)		
DVP-EFB-51NS	(EPM-B-51N-5.4-0.84)		
DVP-EF-51N	(EPM-51N-6.7-0.84)		
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
BTRP-45xLL	(EPT-B-45xLL-PA)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TWP-8040xLL	(EPT-8040xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class ≥ C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
HUKAD type:	Bugle HUKAD / Raised Bugle HUKAD		
Recess:	PH2 / TX25		
Fixing in wooden and wood-based substrate:	Full thread through the substrate or minimum embedment depth		
Installation force of installation tool:	30 kg		
Installation tool speed:	2000 - 2500 rpm		

Eurofast Flat Roof Fasteners

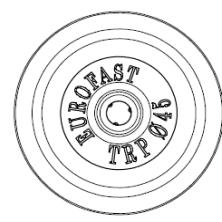
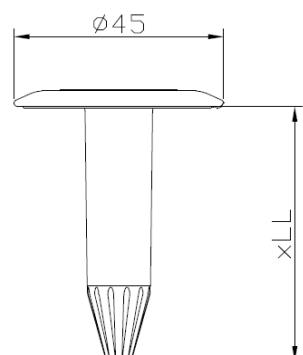
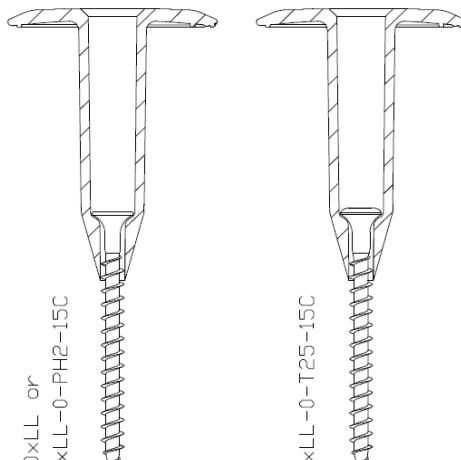
Annex J.3

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

BIO-45xLL or EPT-45xLL-BIO



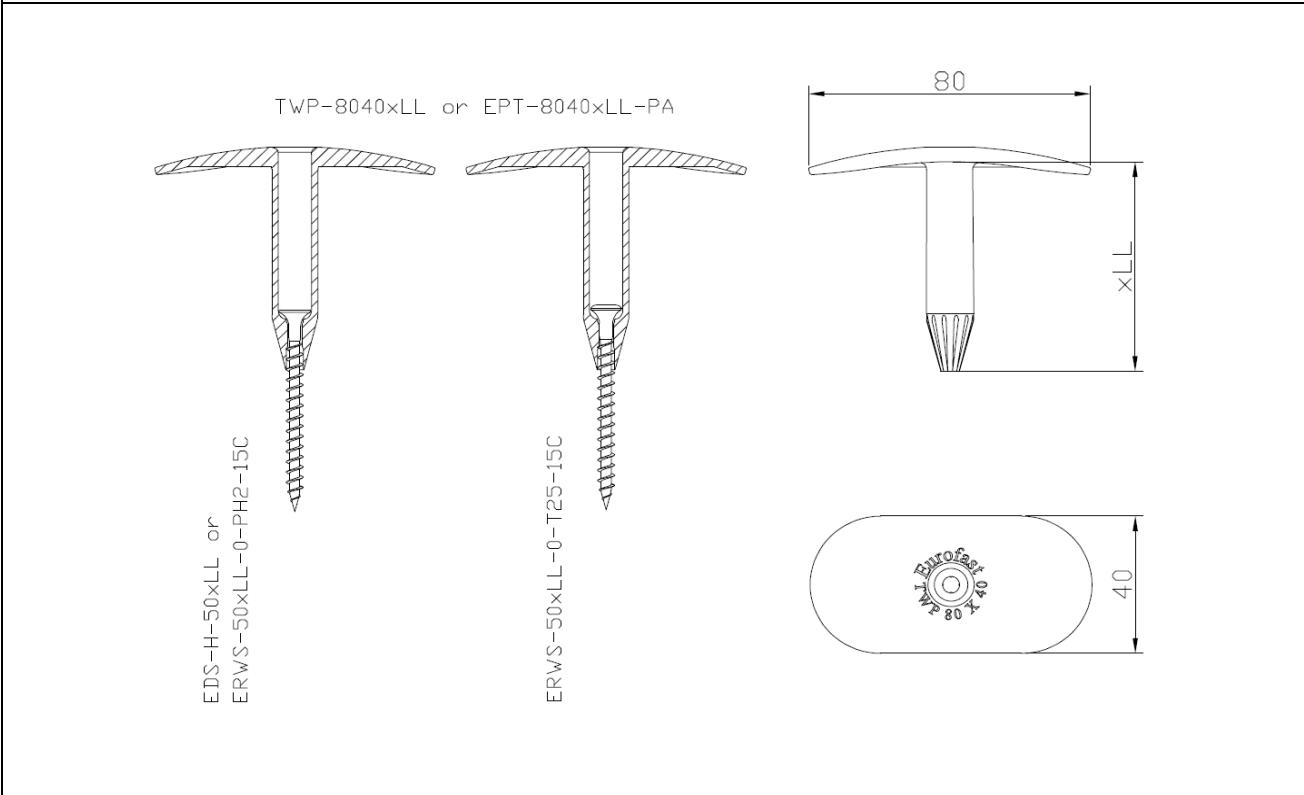
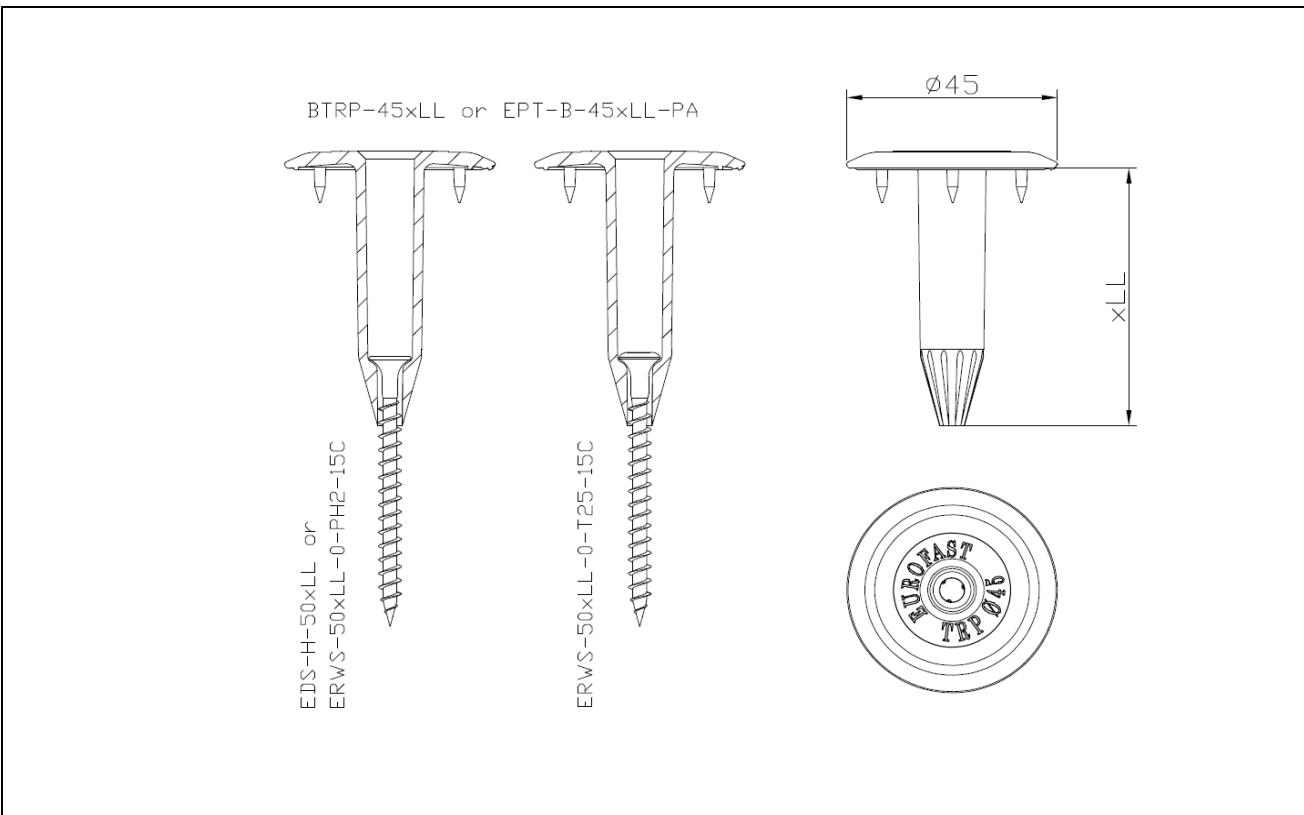
TRP-45xLL or EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

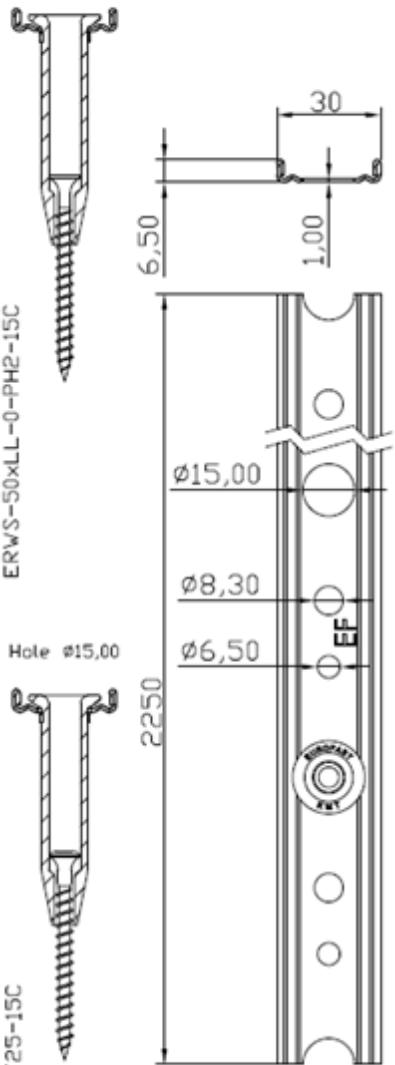
Annex J.4



Eurofast Flat Roof Fasteners	Annex J.5
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C) ERWS-50xLL-0-T25-15C	

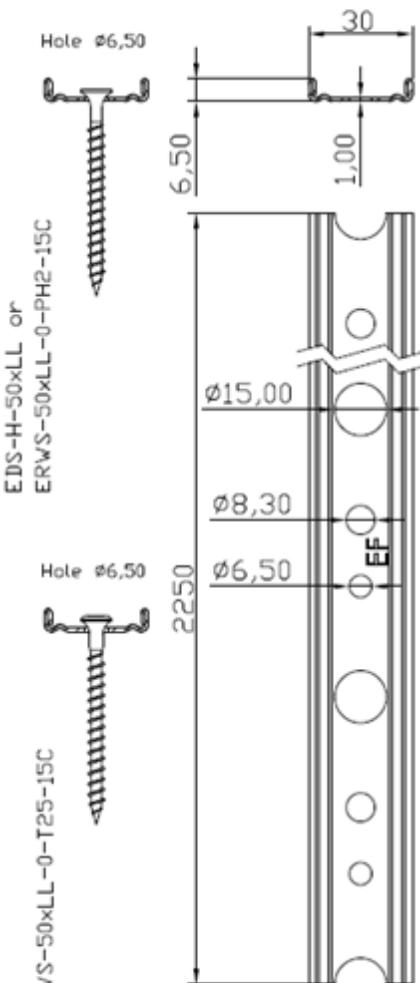
EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA

Hole Ø15,00



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

Hole Ø6,50

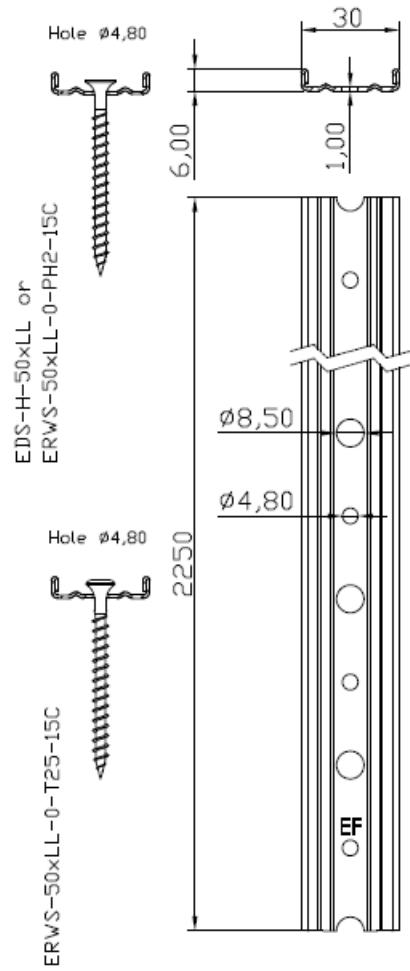


Eurofast Flat Roof Fasteners

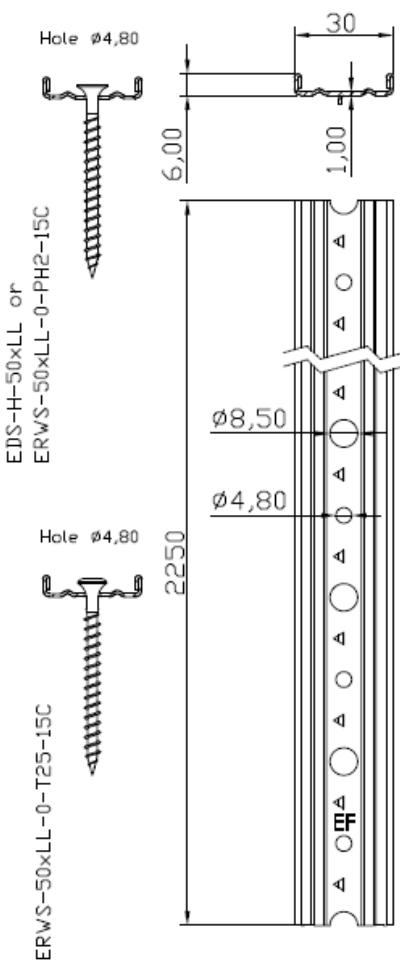
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.6

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

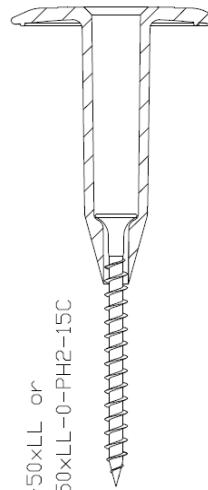


Eurofast Flat Roof Fasteners

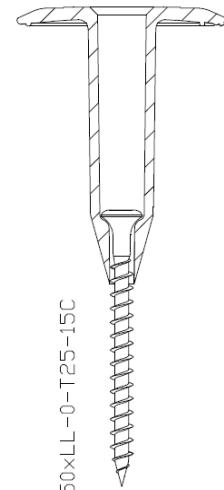
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.7

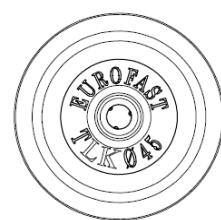
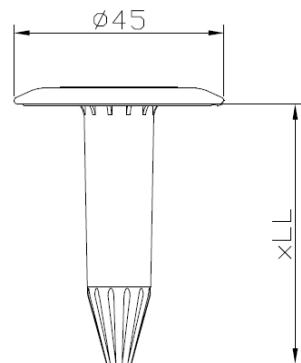
TLK-45xLL or EPT-45xLL-PP



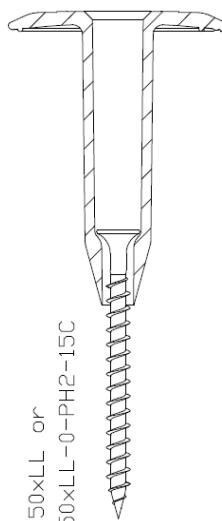
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



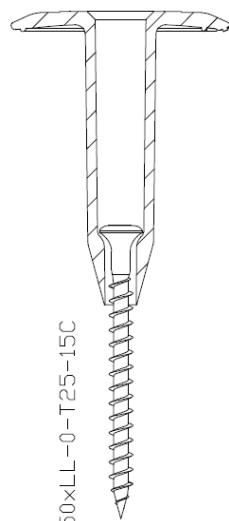
ERWS-50xLL-0-T25-15C



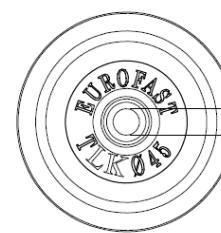
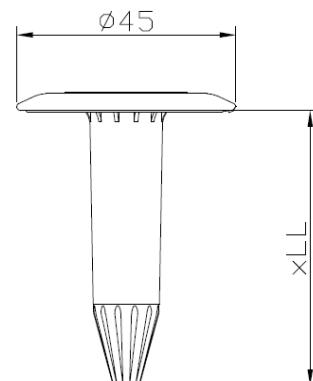
HTLK-45xLL or EPT-0-45xLL-PP



EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



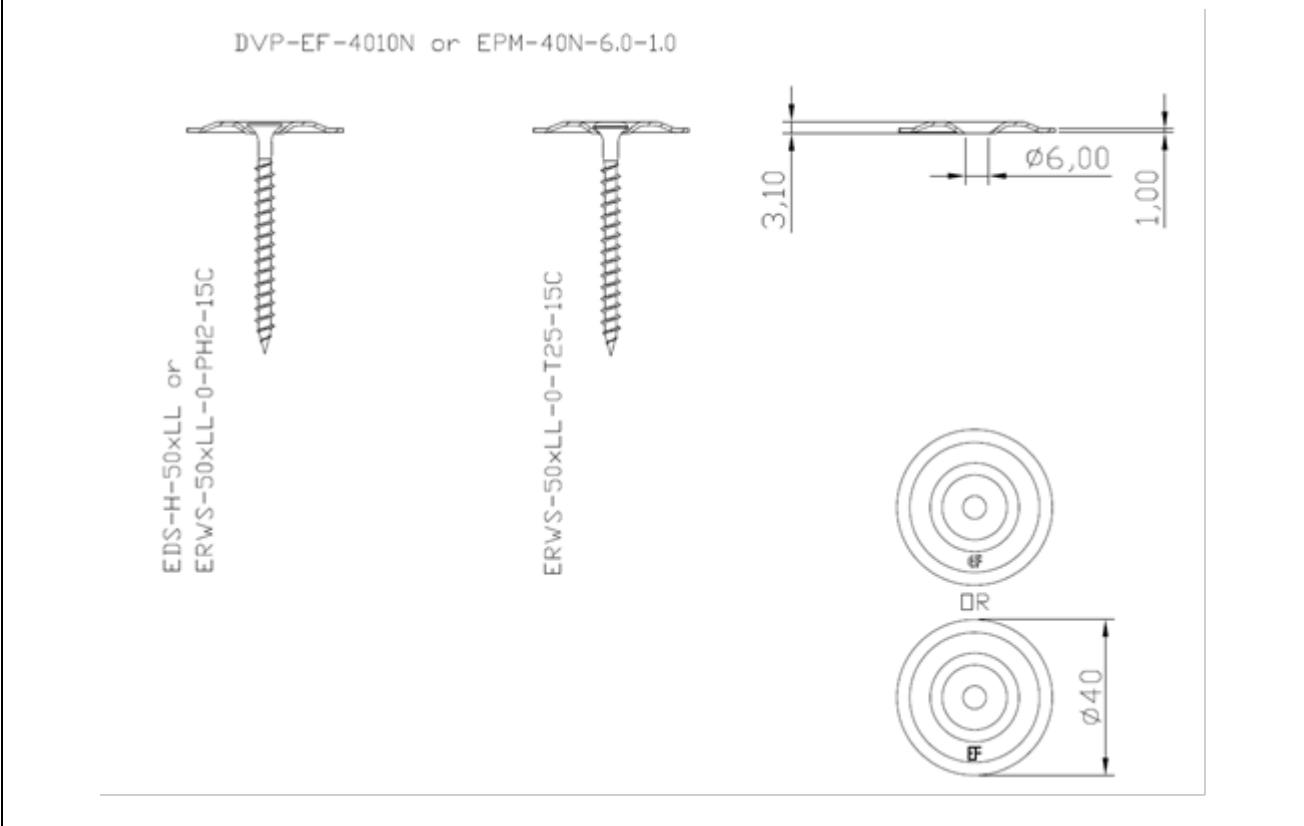
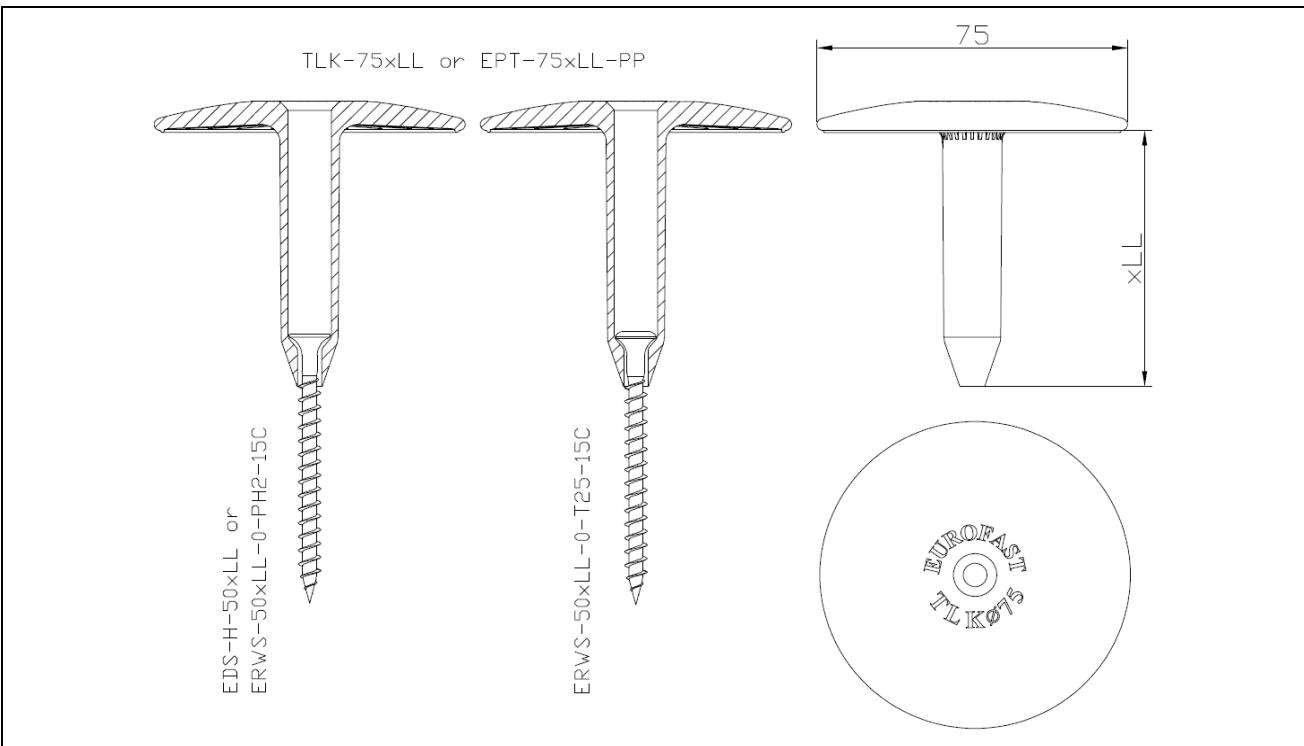
ERWS-50xLL-0-T25-15C



Eurofast Flat Roof Fasteners

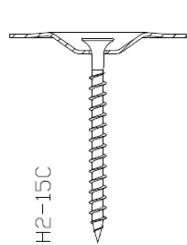
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.8

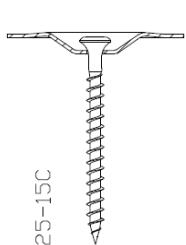


Eurofast Flat Roof Fasteners	Annex J.9
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C) ERWS-50xLL-0-T25-15C	

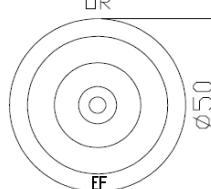
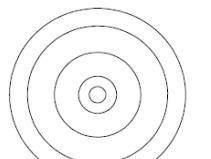
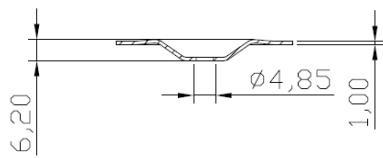
DVP-EF-5010DFR or EPM-50D-4.85-1.0



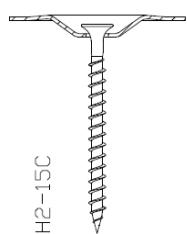
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



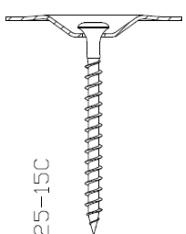
ERWS-50xLL-0-T25-15C



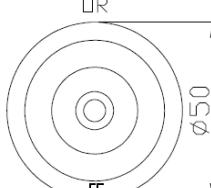
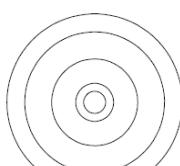
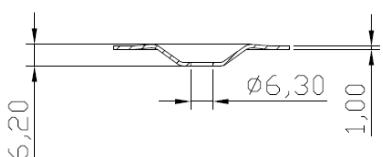
DVP-EF-5010D or EPM-50D-6.3-1.0



EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



ERWS-50xLL-0-T25-15C

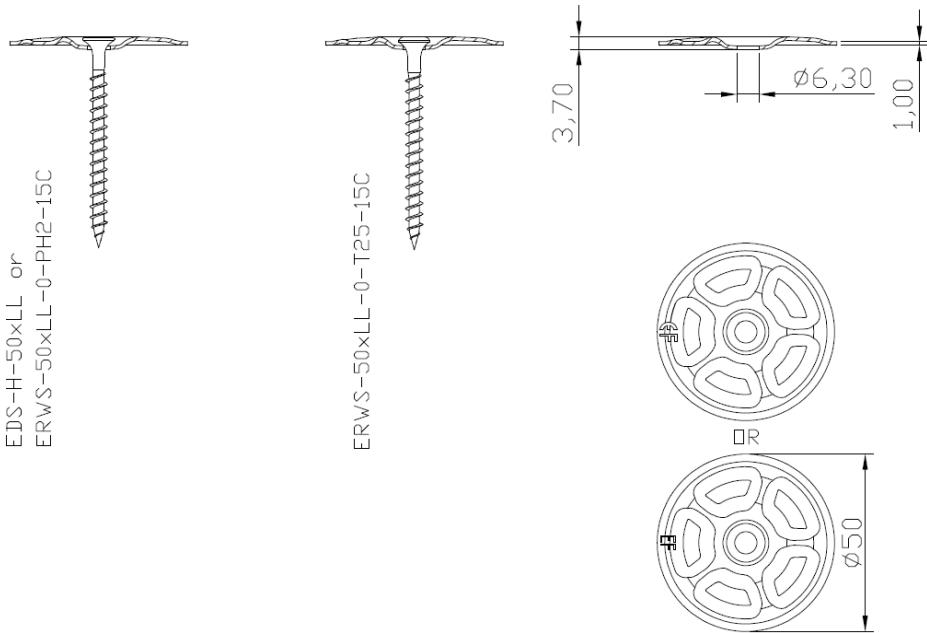


Eurofast Flat Roof Fasteners

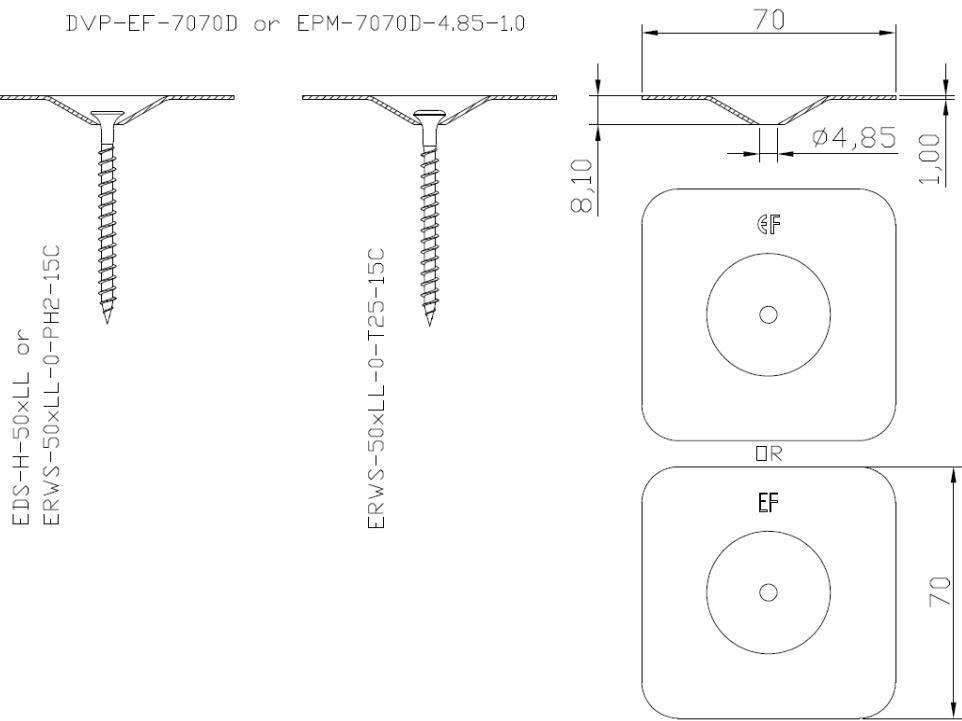
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.10

DVP-EF-5010N or EPM-50N-6,3-1,0



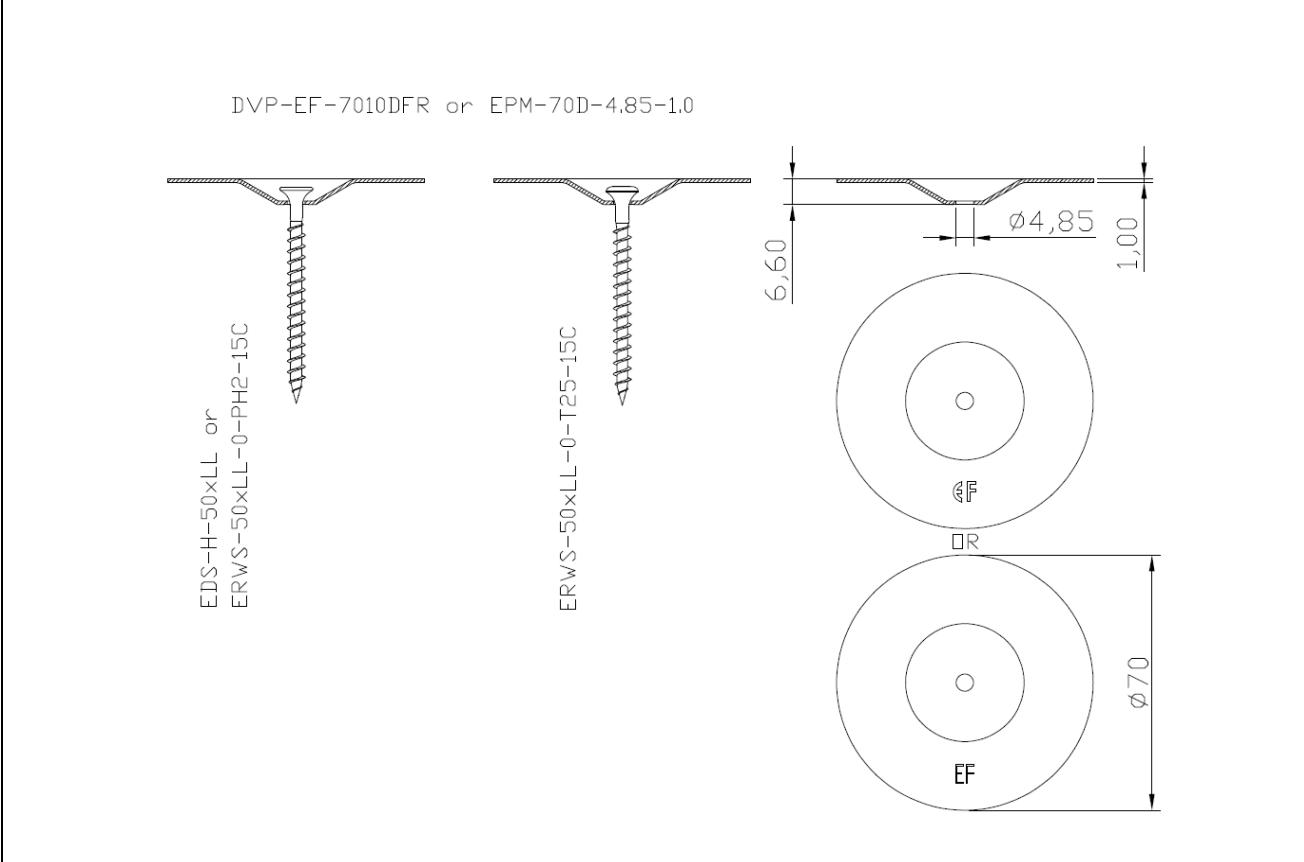
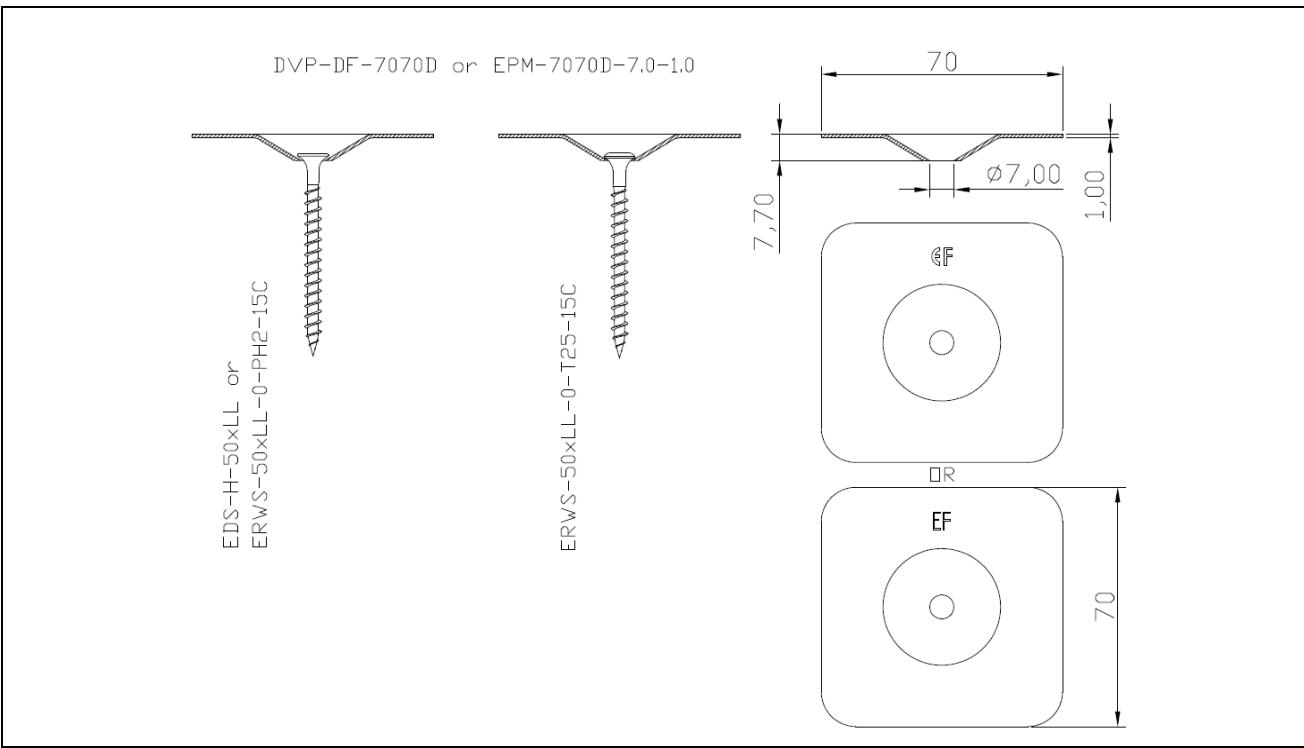
DVP-EF-7070D or EPM-7070D-4,85-1,0



Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.11

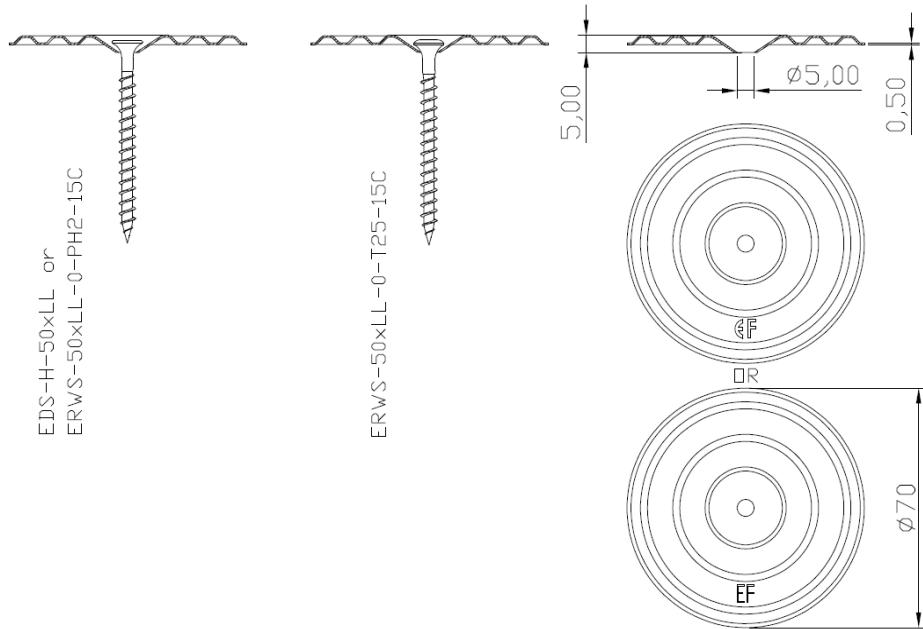


Eurofast Flat Roof Fasteners

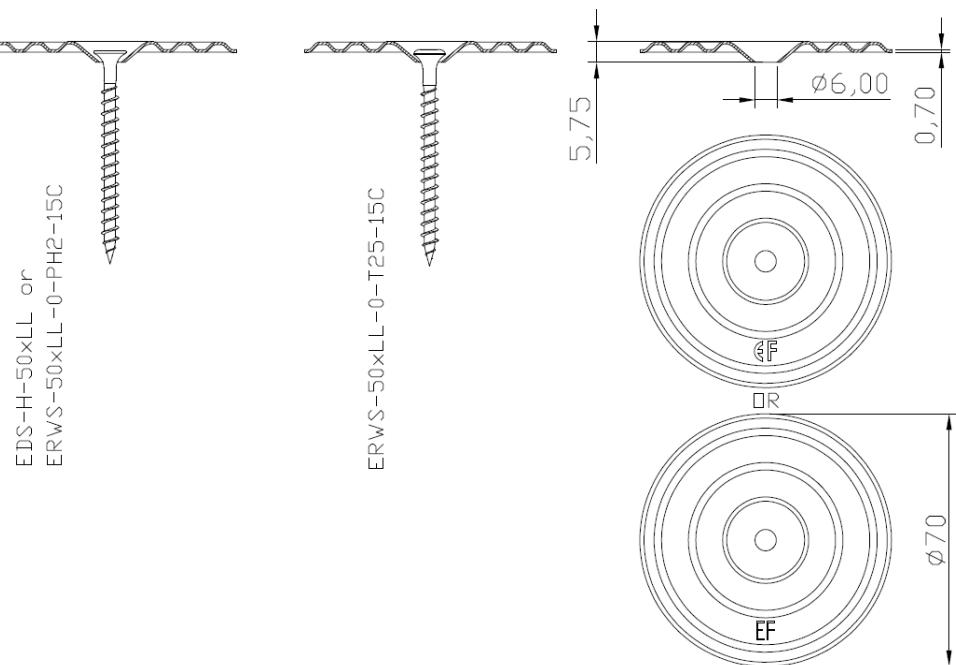
Annex J.12

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

DVP-EF-7005D or EPM-70D-5.0-0.5



DVP-EF-7007D or EPM-70D-6.0-0.7

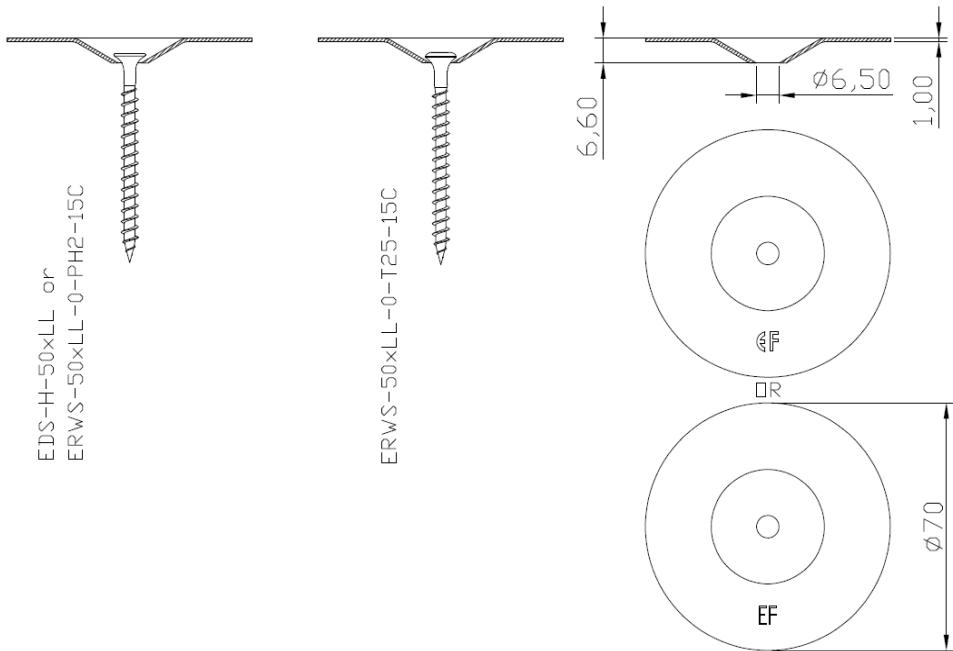


Eurofast Flat Roof Fasteners

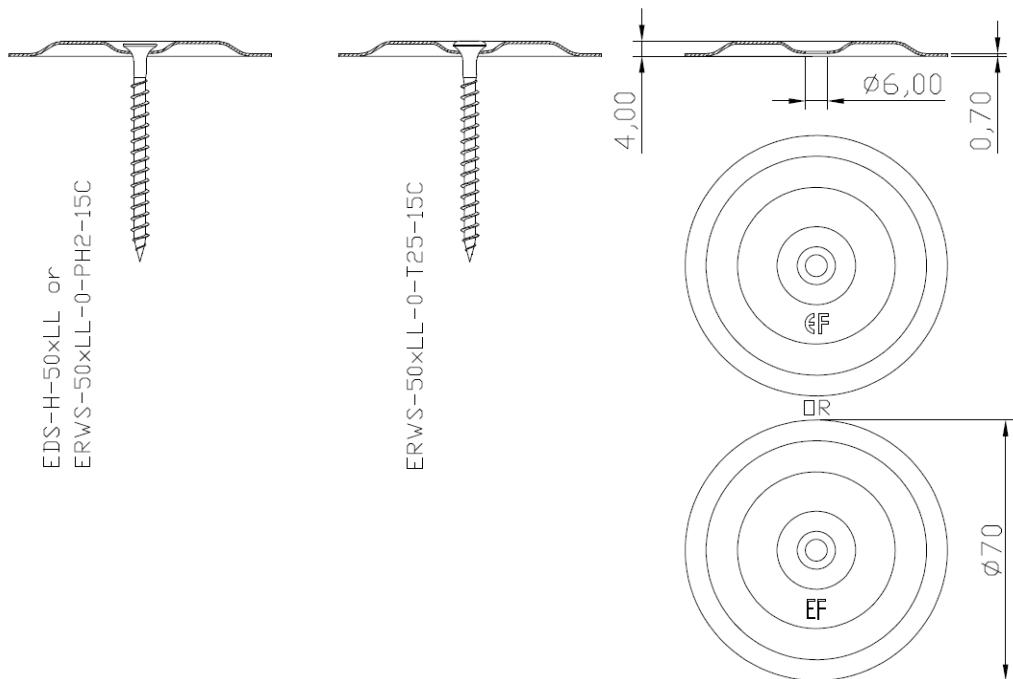
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.13

DVP-EF-7010D or EPM-70D-6.5-1.0



DVP-EF-7007H or EPM-70H-6.0-0.7

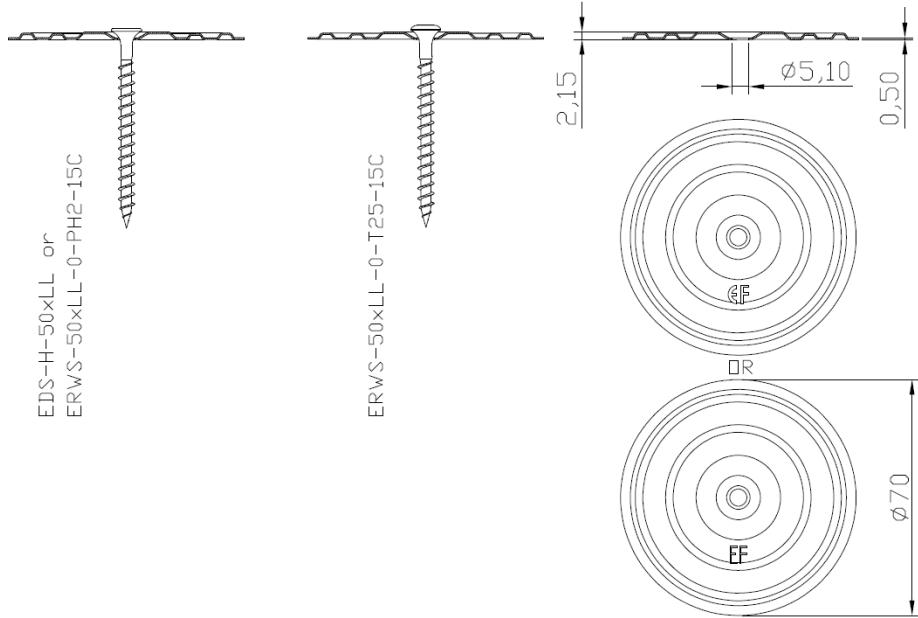


Eurofast Flat Roof Fasteners

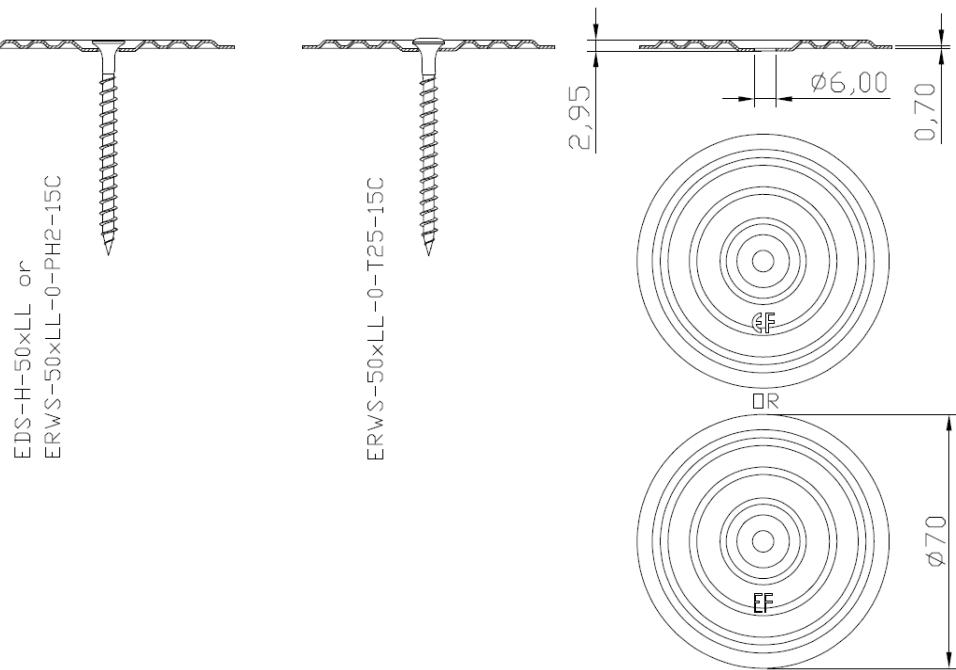
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.14

DVP-EF-7005N or EPM-70N-5.1-0,5



DVP-EF-7007N or EPM-70N-6.0-0,7

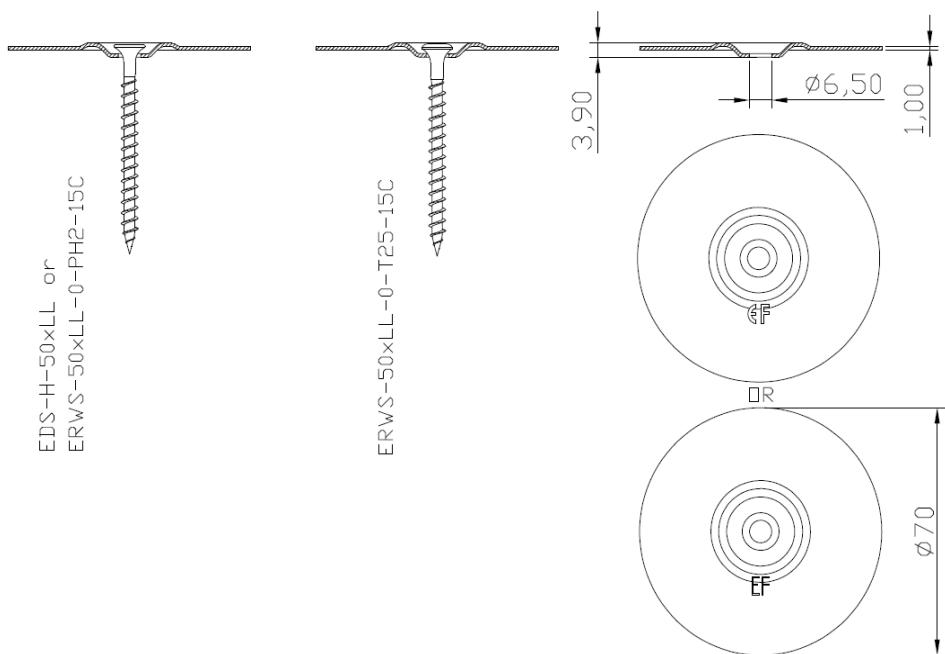


Eurofast Flat Roof Fasteners

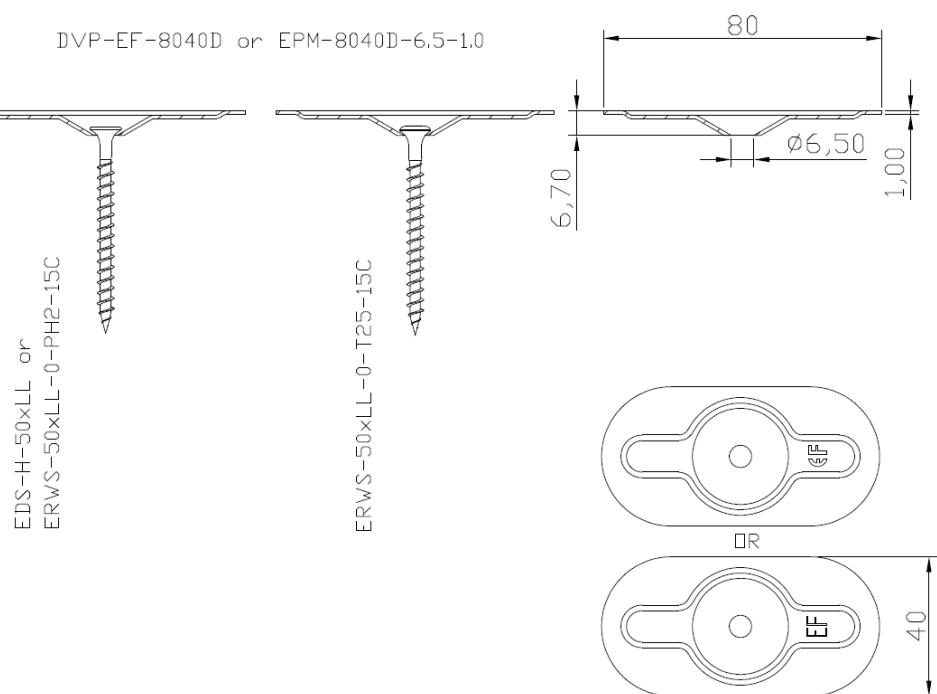
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.15

DVP-EF-7010N or EPM-70N-6,5-1,0



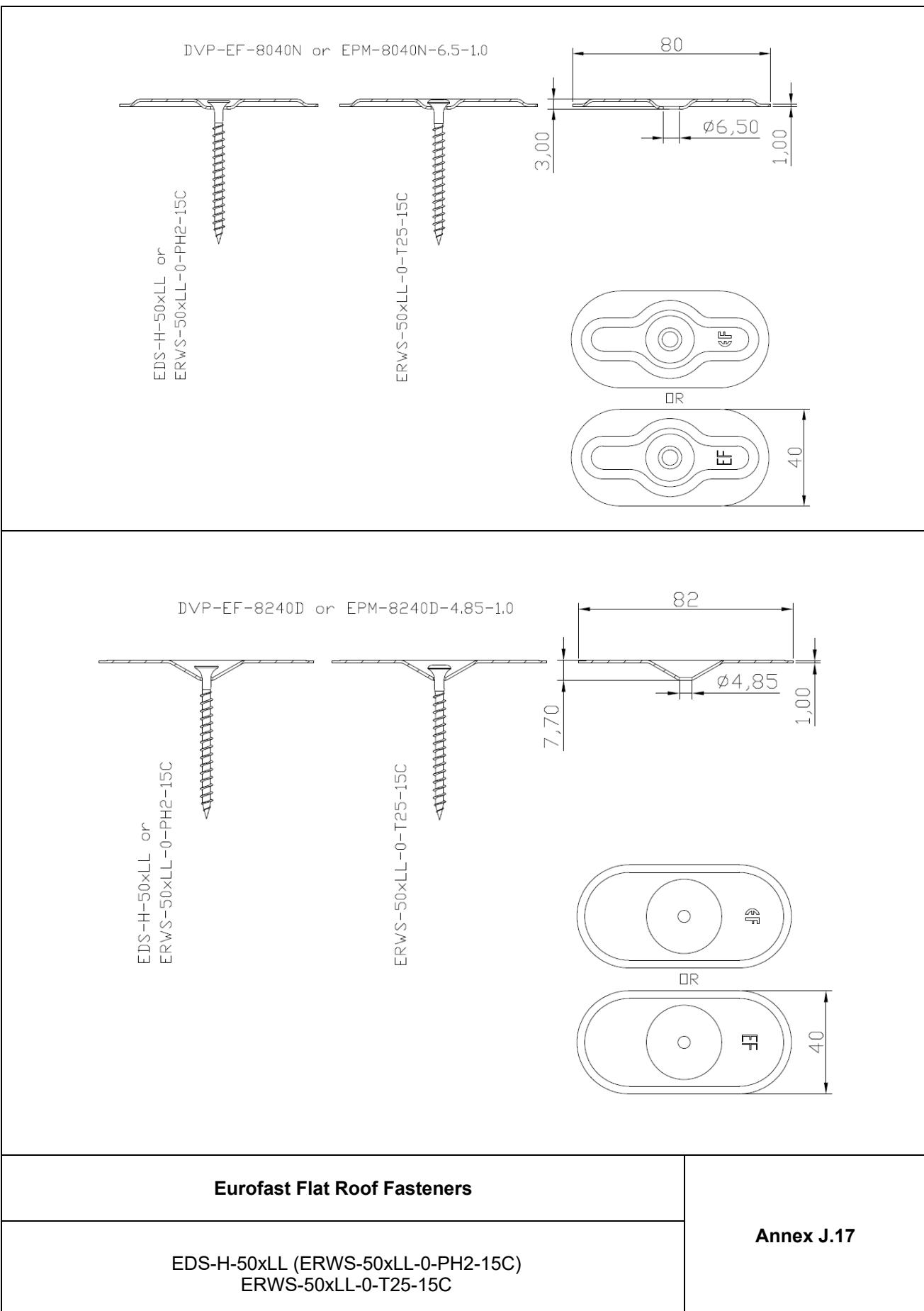
DVP-EF-8040D or EPM-8040D-6,5-1,0

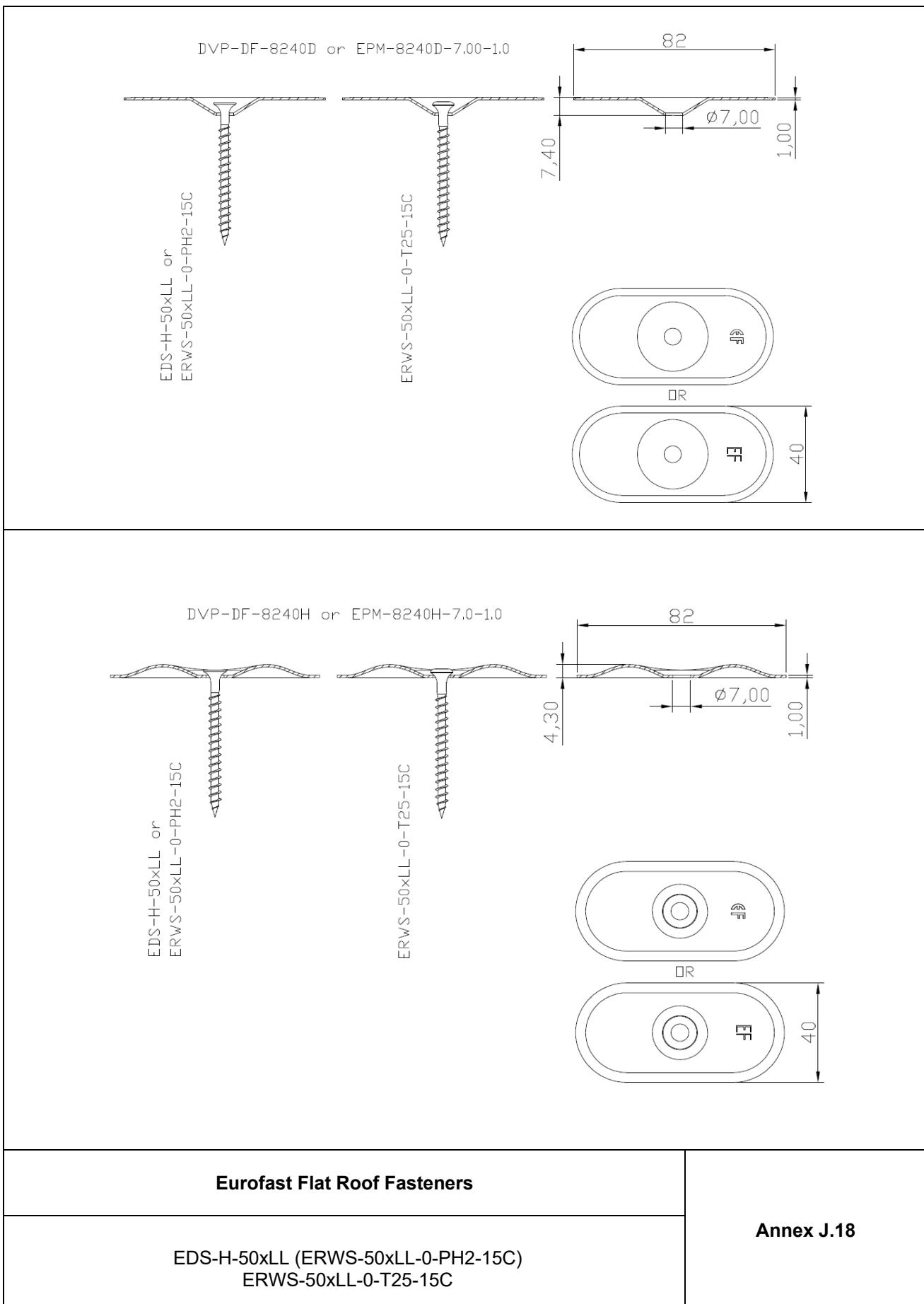


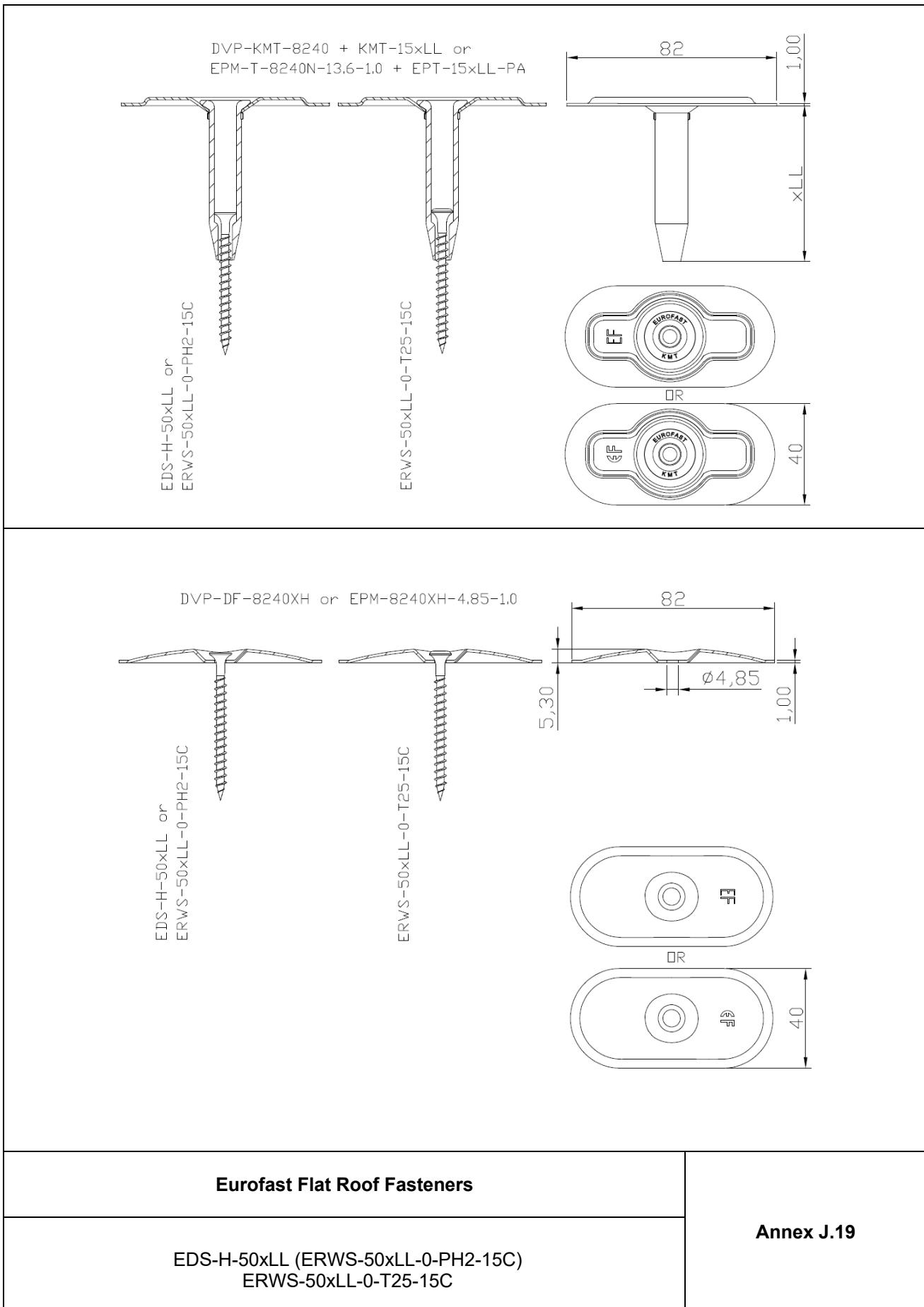
Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

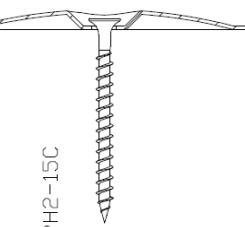
Annex J.16



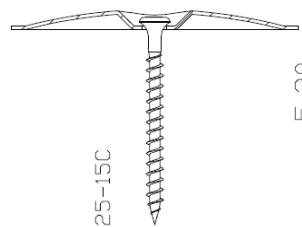




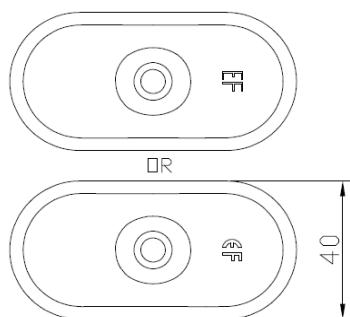
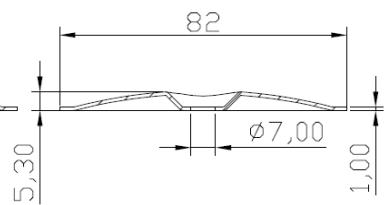
DVP-DF-8240XH or EPM-8240XH-7.0-1.0



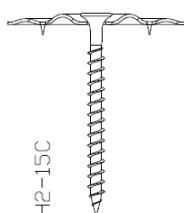
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



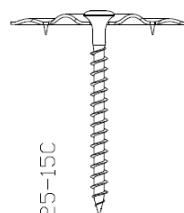
ERWS-50xLL-0-T25-15C



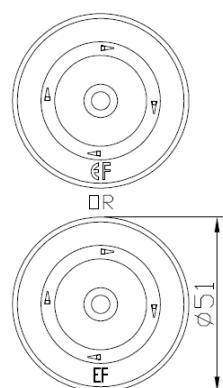
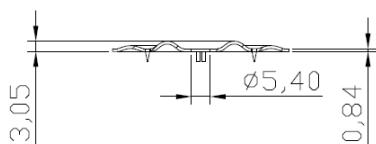
DVP-EFB-51NS or EPM-B-51N-5.4-0.84



EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



ERWS-50xLL-0-T25-15C

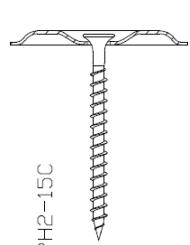


Eurofast Flat Roof Fasteners

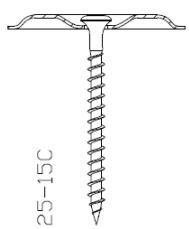
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.20

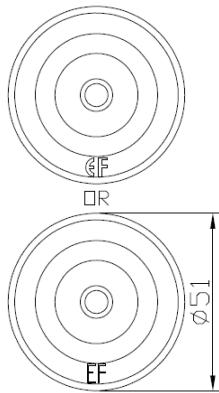
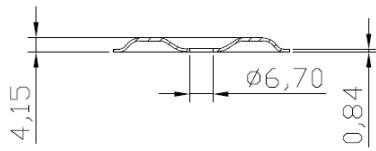
DVP-EF-51N or EPM-51N-6,7-0,84



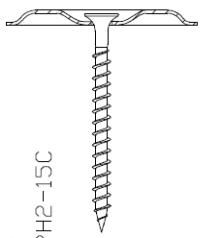
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C



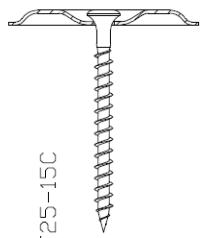
ERWS-50xLL-0-T25-15C



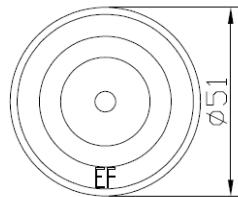
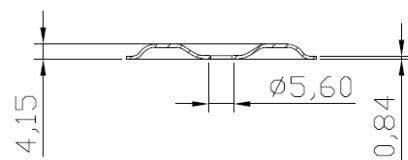
EPM-51N-5,6-0,84



EDS-H-50xLL or
ERWS-50xLL-0-T25-15C



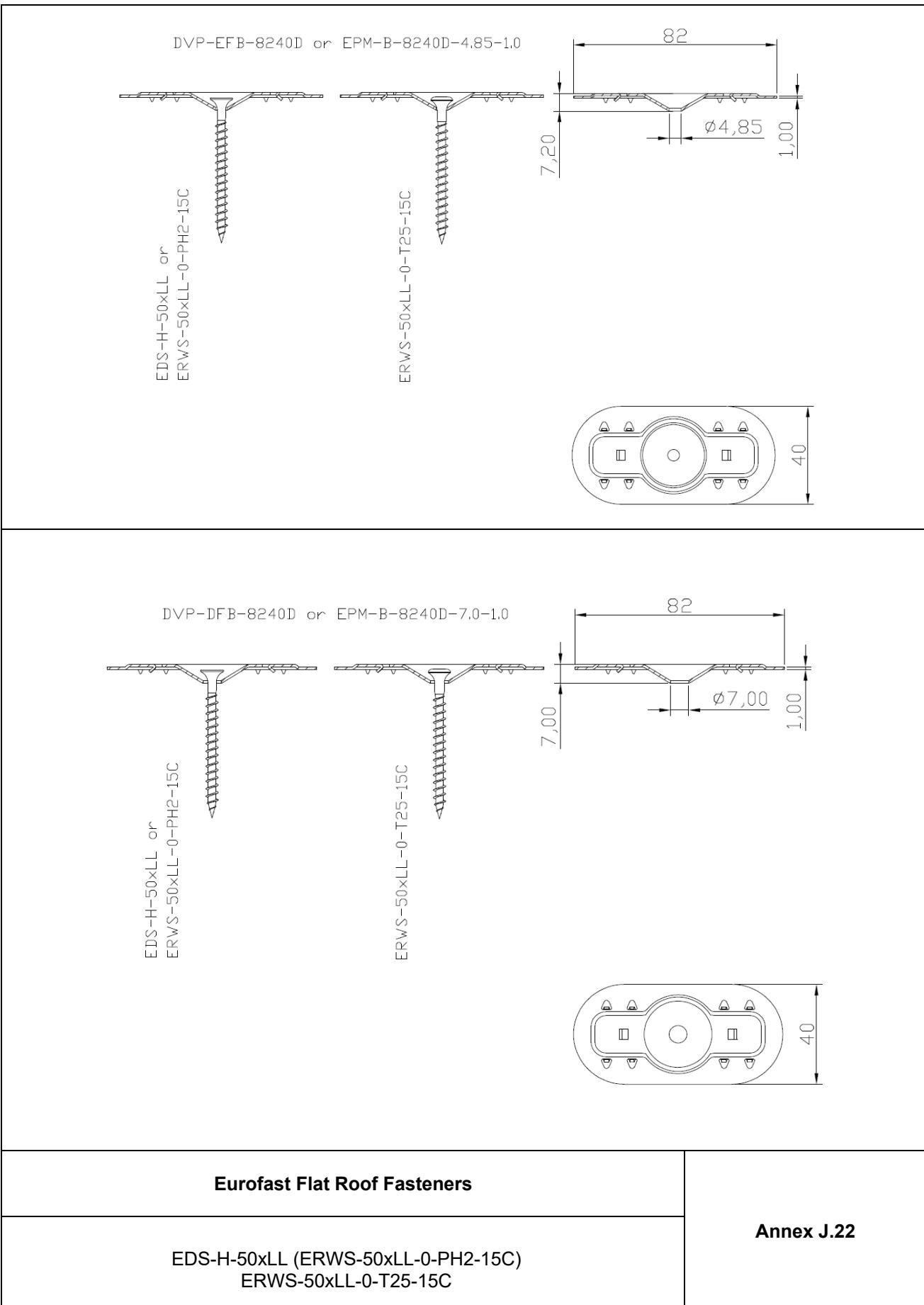
ERWS-50xLL-0-T25-15C



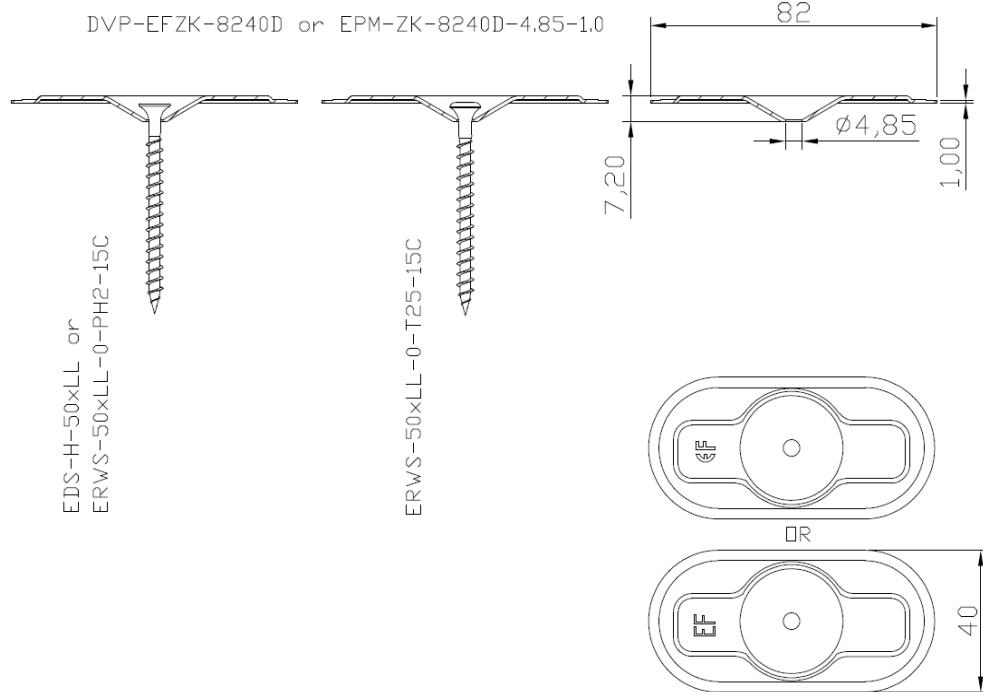
Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

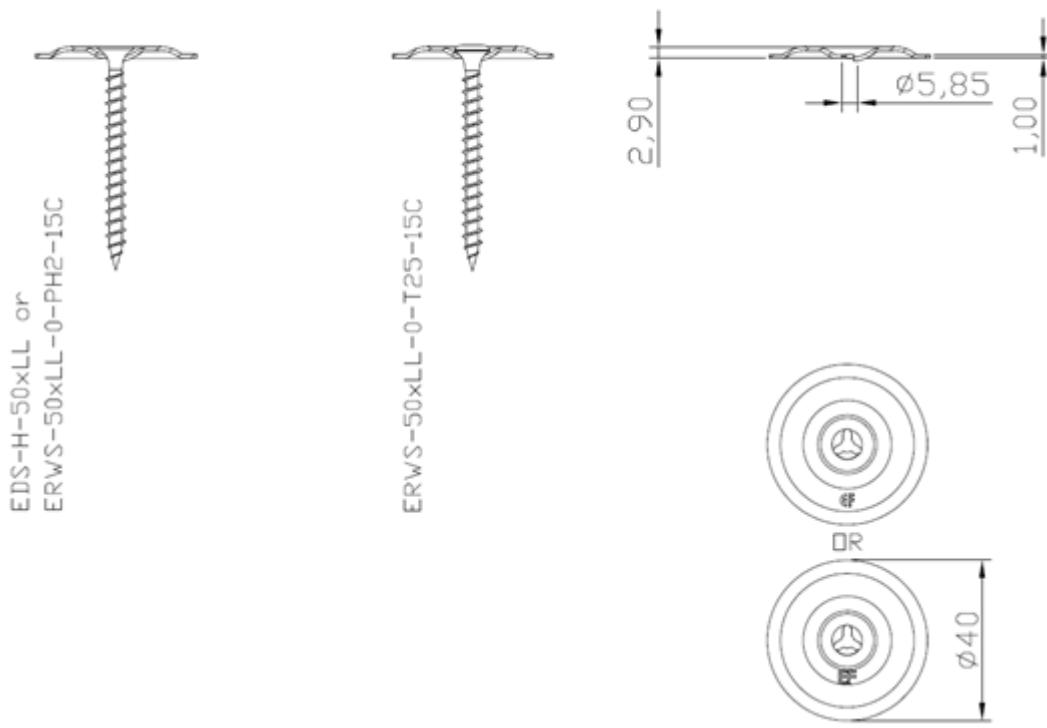
Annex J.21



DVP-EFZK-8240D or EPM-ZK-8240D-4.85-1.0



DVP-EF-4010N3 or EPM-N3-40N-5.85-1.0

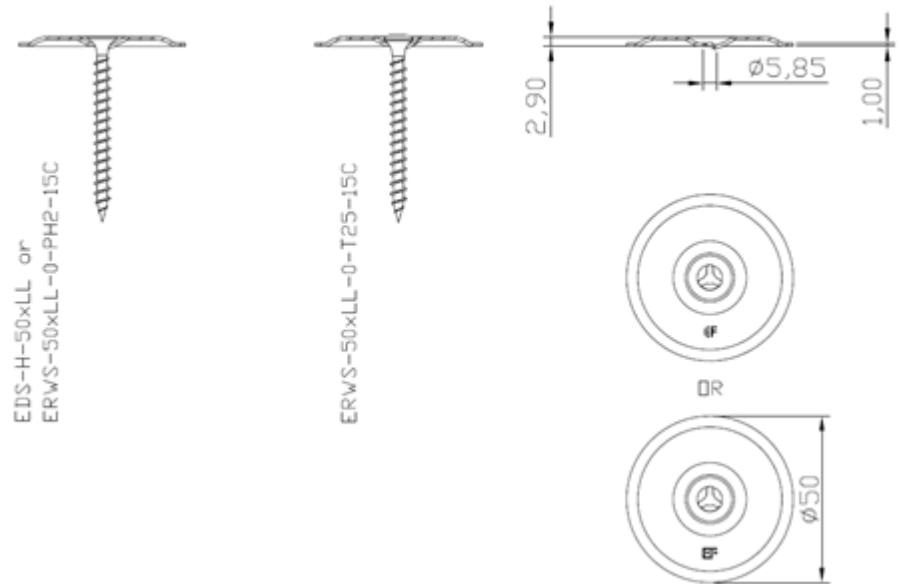


Eurofast Flat Roof Fasteners

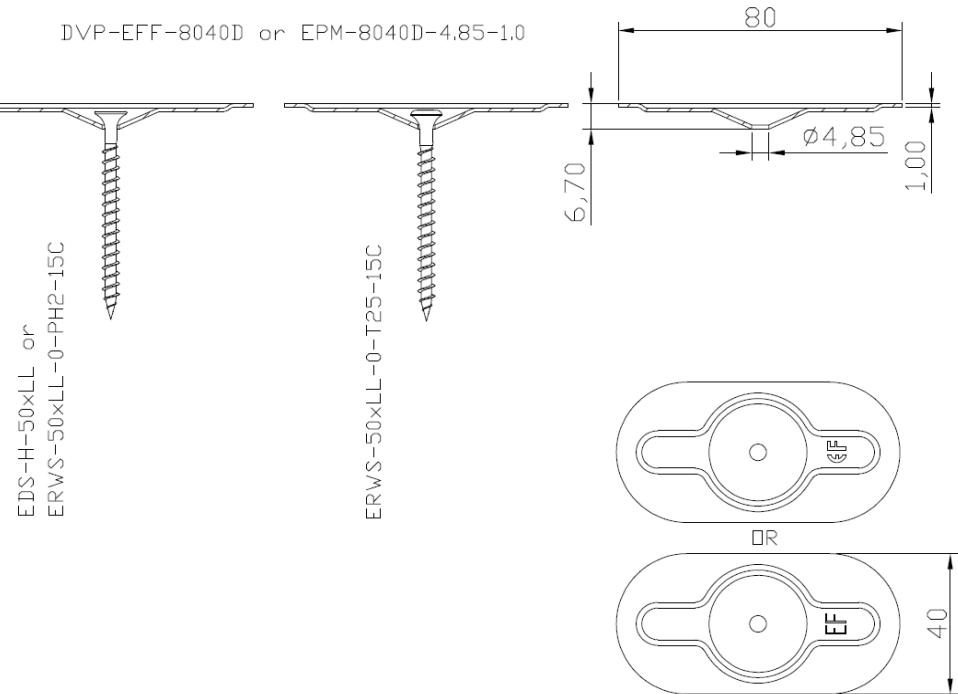
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.23

DVP-EF-5010N3 or EPM-N3-50N-5.85-1.0



DVP-EFF-8040D or EPM-8040D-4.85-1.0

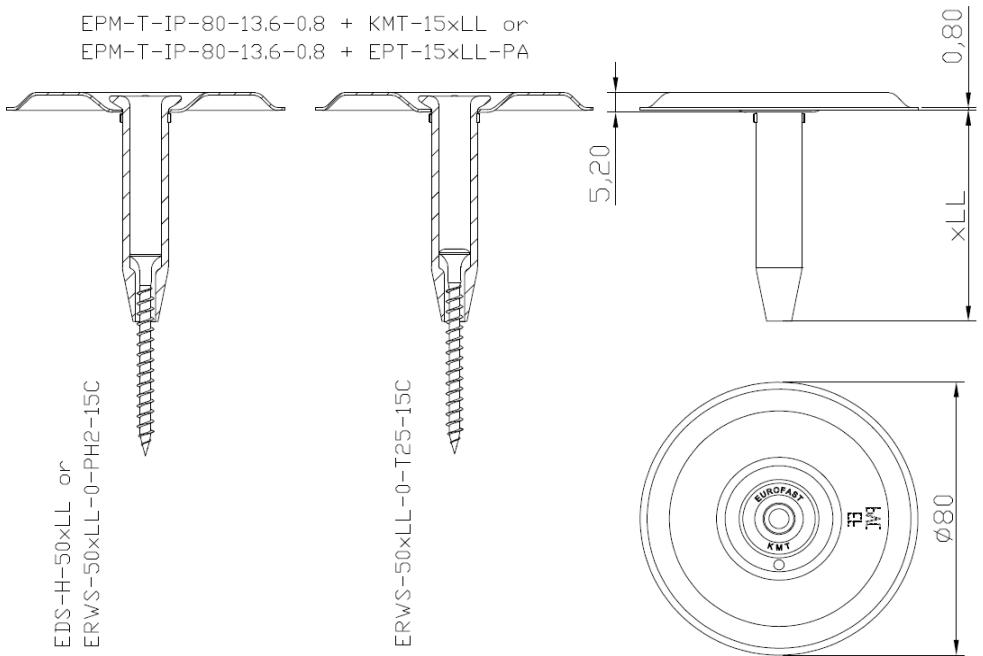


Eurofast Flat Roof Fasteners

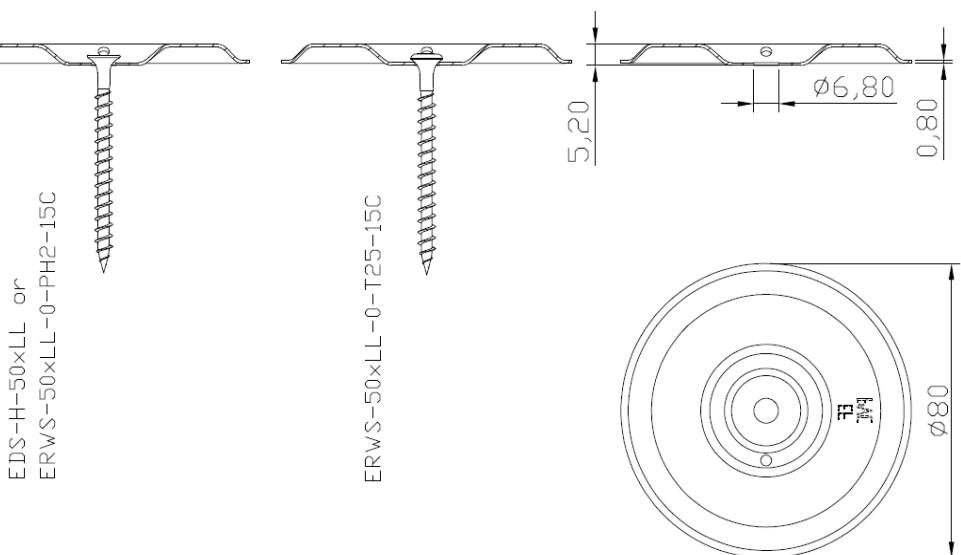
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.24

EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



EPM-IP-80-6,8-0,8

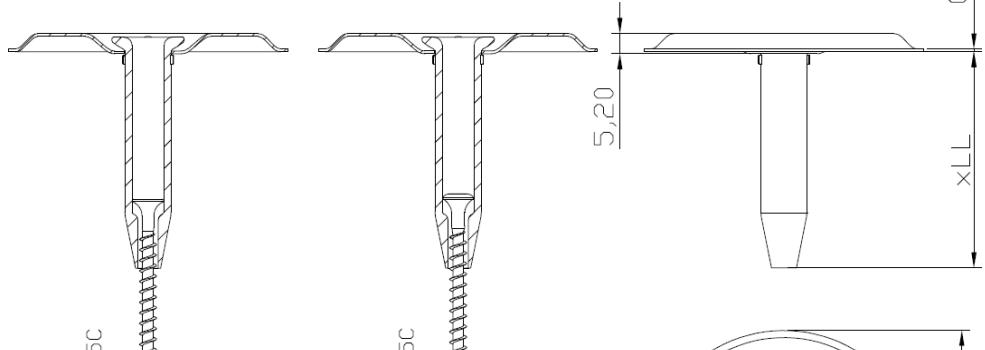


Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.25

EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



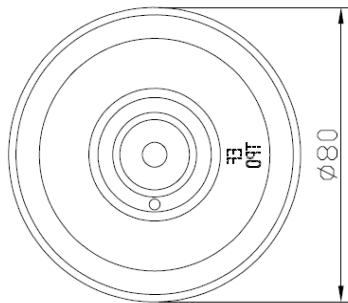
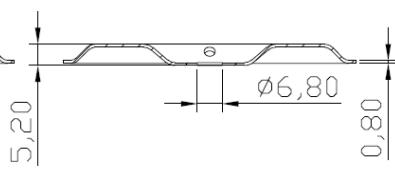
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C

ERWS-50xLL-0-T25-15C

EPM-IT-80-6,8-0,8

EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C

ERWS-50xLL-0-T25-15C

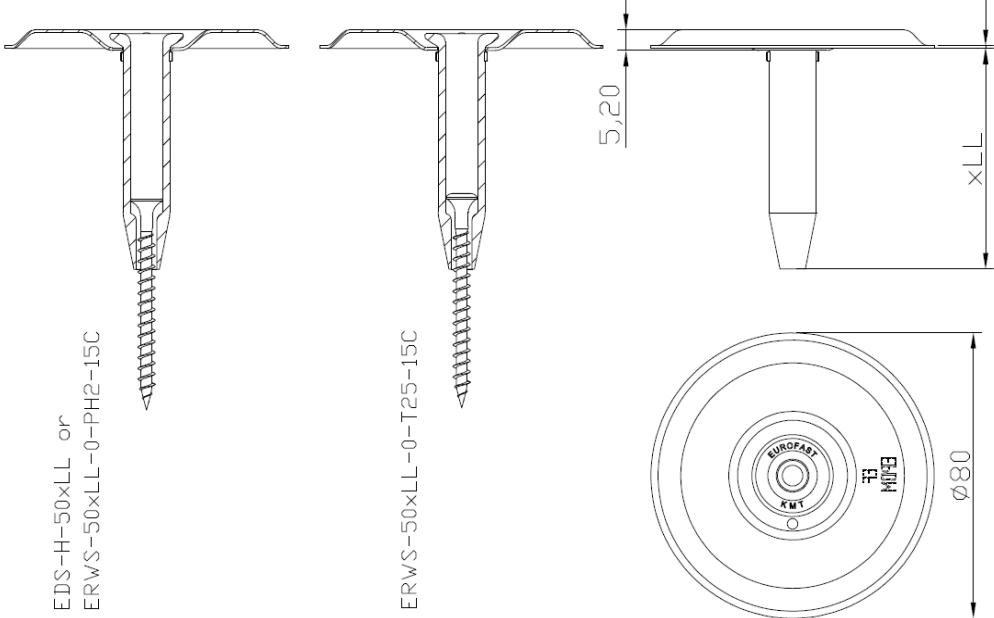


Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.26

EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



EPM-IE-80-6,8-0,8

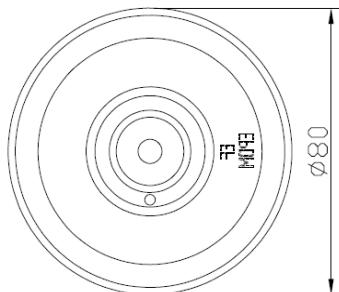
EDS-H-50xLL or
ERWS-50xLL-0-PH2-15C

ERWS-50xLL-0-T25-15C

5,20

φ6,80

0,80

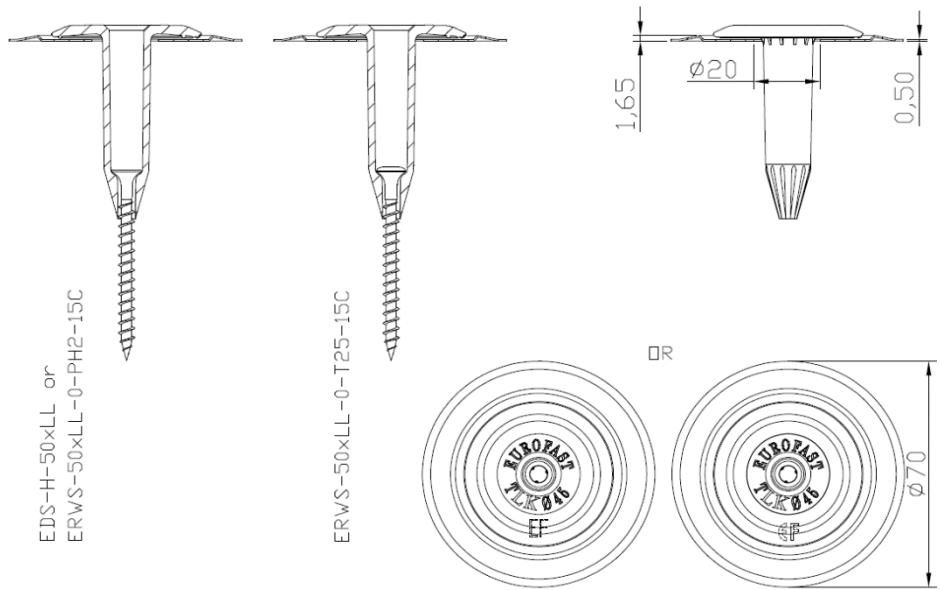


Eurofast Flat Roof Fasteners

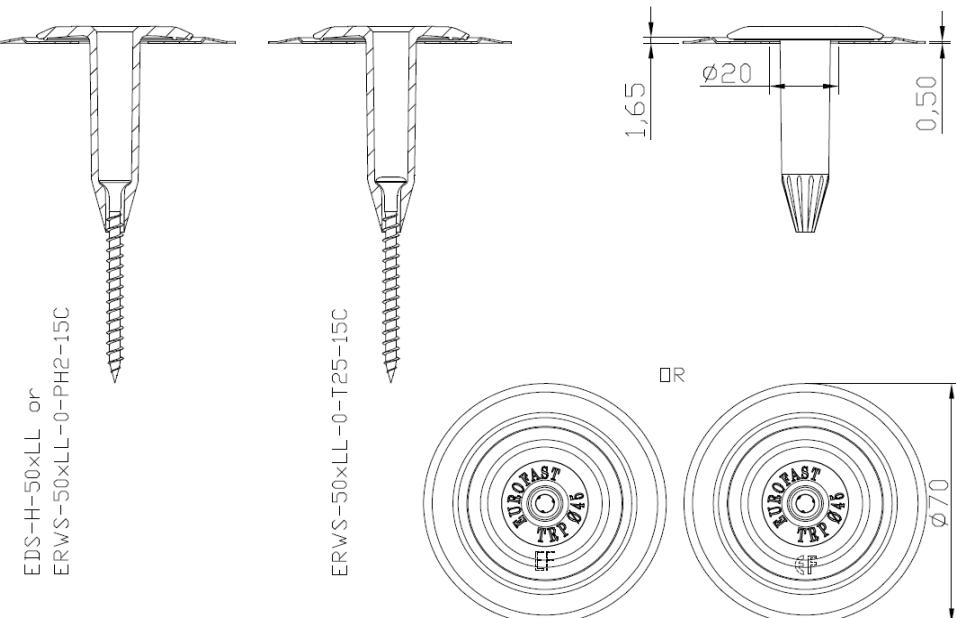
EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.27

DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



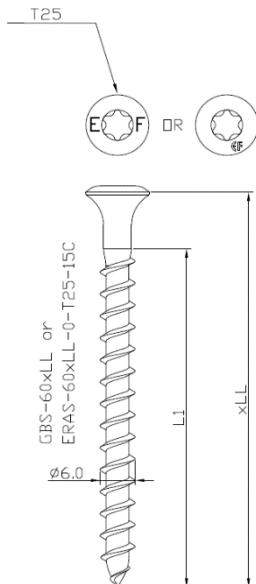
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EDS-H-50xLL (ERWS-50xLL-0-PH2-15C)
ERWS-50xLL-0-T25-15C

Annex J.28



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)				
	Autoclaved aerated concrete AAC 600 kg/m ³	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,0 mm)	Concrete C25/30 (drill 5,0 mm)
t [mm]	-	-	-	-
GBS-60xLL (ERAS-60xLL-0-T25-15C)	1,37	1,42	1,83	2,00

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)						
t [mm]	OSB/3			Chipboard	Plywood	Timber C24
GBS-60xLL (ERAS-60xLL-0-T25-15C)	1,08	1,26	1,50	1,43	1,51	1,34

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)		
	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	-	EPM-IT-80-6.8-0.8
	-	EPM-IE-80-6.8-0.8
GBS-60xLL (ERAS-60xLL-0-T25-15C)	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

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GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
GBS-60xLL (ERAS-60xLL-0-T25-15C)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7007H (EPM-70H-6.0-0.7)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-7007N (EPM-70N-6.0-0.7)
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
GBS-60xLL (ERAS-60xLL-0-T25-15C)	5,05	4,43	3,89	2,96	2,91

* "Pull-over" according to CEN/TS 17659 : 2021

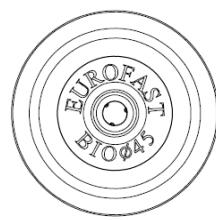
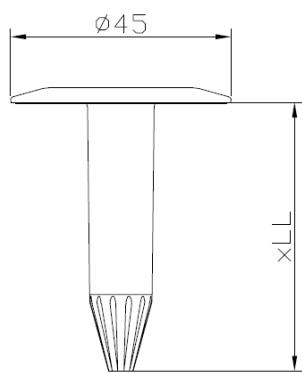
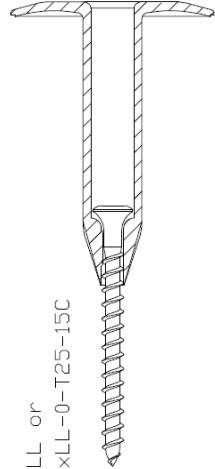
Eurofast Flat Roof Fasteners

Annex K.2

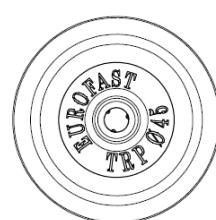
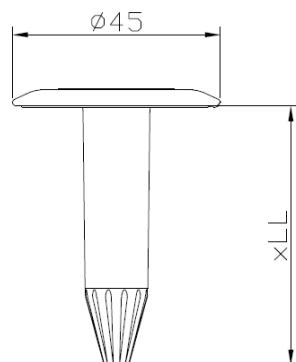
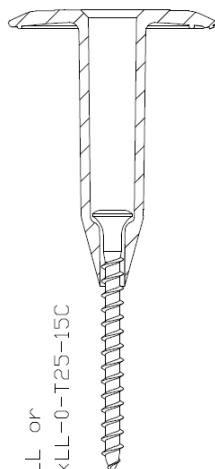
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Screw: GBS-60xLL (ERAS-60xLL-0-T25-15C)		
Metal pressure plate:		
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-EF-51N (EPM-51N-6.7-0.84)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	EPM-IP-80-6.8-0.8
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-IT-80-6.8-0.8
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IE-80-6.8-0.8
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7007N	(EPM-70N-6.0-0.7)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)	
Pressure plate with tube:		
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)	
TWP-8040xLL	(EPT-8040xLL-PA)	
TLK-45xLL	(EPT-45xLL-PP)	
HTLK-45xLL	(EPT-O-45xLL-PP)	
TLK-75xLL	(EPT-75xLL-PP)	
Substrate:		
Autoclaved aerated concrete	AAC 600 kg/m ³	EN 12602
Concrete	C12/15, C20/25, C25/30	EN 206
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2
Timber, class ≥ C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338
Installation data:		
HUKAD type:		Raised Bugle HUKAD
Recess:		TX25
Effective anchoring depth on autoclaved aerated concrete substrate h_{ref} :		$\geq 60 \text{ mm}$
Effective anchoring depth on concrete substrate h_{ref} :		$\geq 30 \text{ mm}$
Concrete drill diameter:		5,0 mm
Drilled hole depth in concrete:		$h_{ref} + 10 \text{ mm}$
Fixing in wooden and wood-based substrate:		Full thread through the substrate or minimum embedment depth
Installation force of installation tool in autoclaved aerated concrete substrate:		15 kg
Installation tool speed in autoclaved aerated concrete substrate:		1000 rpm
Installation force of installation tool in concrete substrate:		15 kg + impact
Installation tool speed in concrete substrate:		100 rpm
Installation force of installation tool in wooden and wood-based substrate:		30 kg
Installation tool speed in wooden and wood-based substrate:		2000 - 2500 rpm
Eurofast Flat Roof Fasteners		
GBS-60xLL (ERAS-60xLL-0-T25-15C)		Annex K.3

BIO-45xLL or EPT-45xLL-BIO



TRP-45xLL or EPT-45xLL-PA

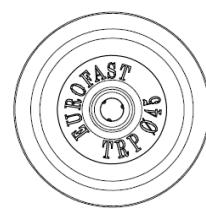
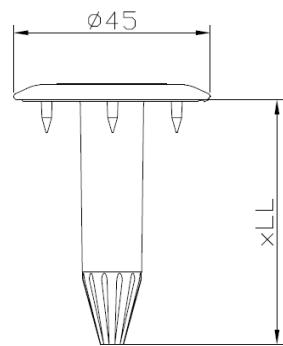
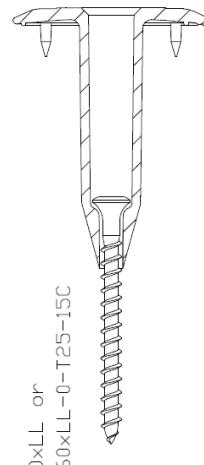


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GBS-60xLL (ERAS-60xLL-0-T25-15C)

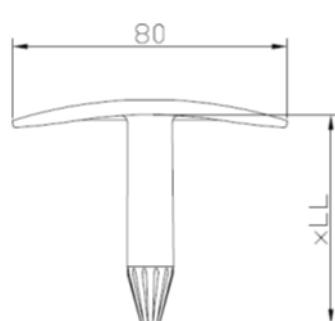
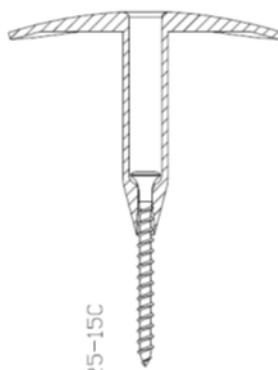
Annex K.4

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

GBS-60xLL or
ERAS-60xLL-0-T25-15C

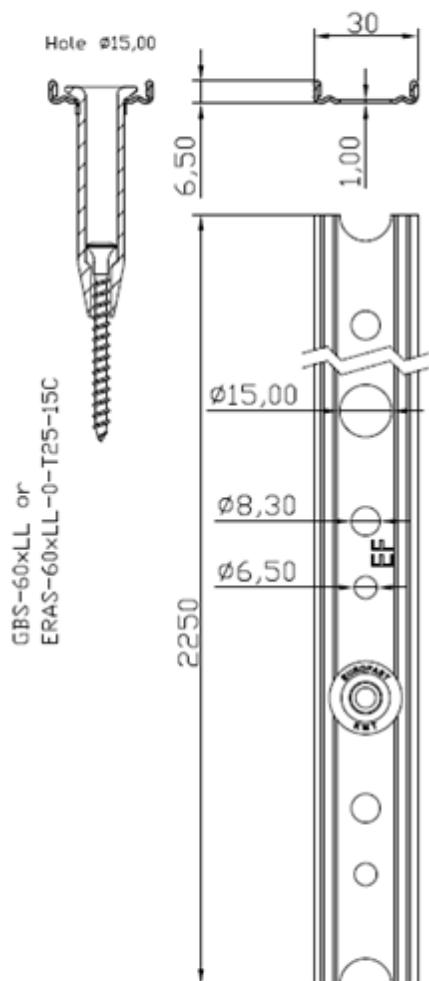


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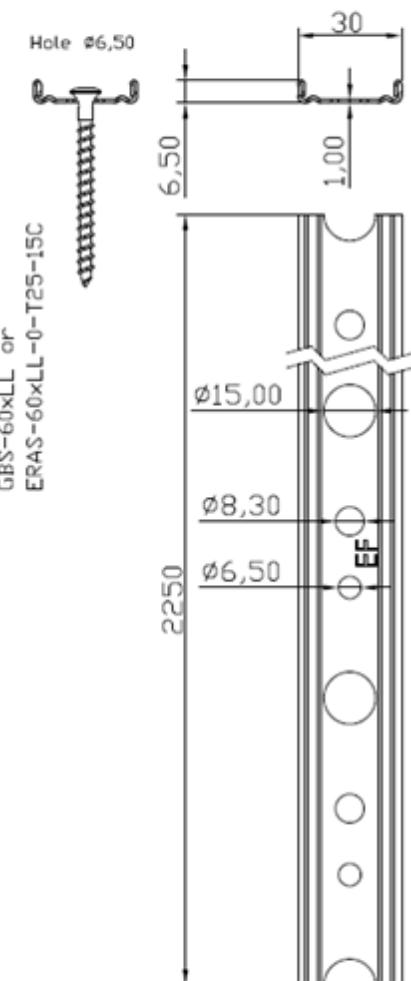
Annex K.5

GBS-60xLL (ERAS-60xLL-0-T25-15C)

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

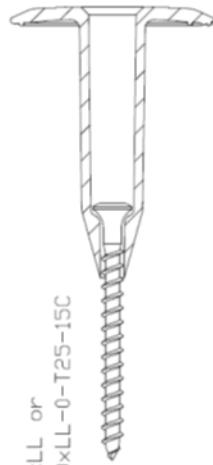


Eurofast Flat Roof Fasteners

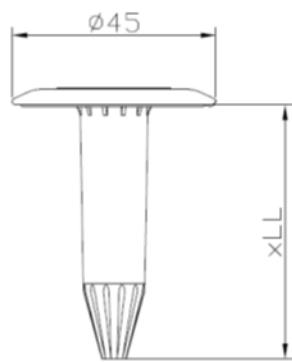
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.6

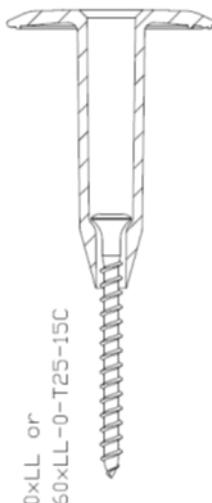
TLK-45xLL or EPT-45xLL-PP



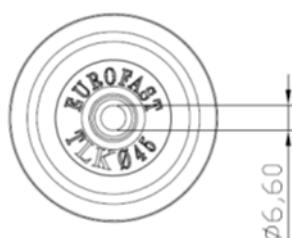
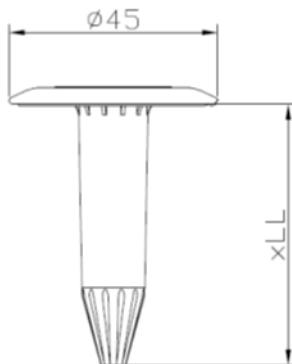
GBS-60xLL or
ERAS-60xLL-0-T25-15C



HTLK-45xLL or EPT-0-45xLL-PP



GBS-60xLL or
ERAS-60xLL-0-T25-15C

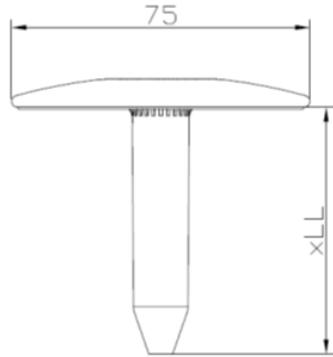
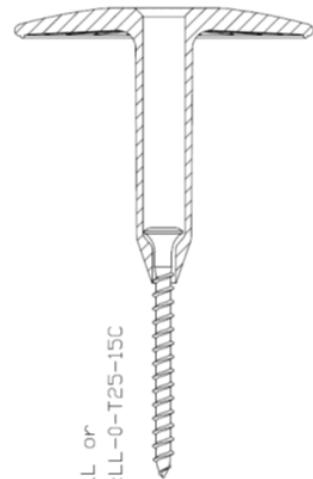


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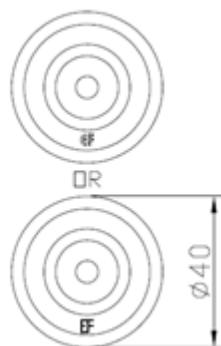
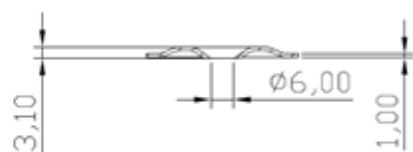
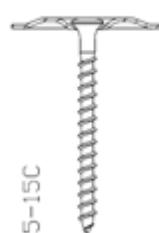
Annex K.7

GBS-60xLL (ERAS-60xLL-0-T25-15C)

TLK-75xLL or EPT-75xLL-PP



DVP-EF-4010N or EPM-40N-6.0-1.0

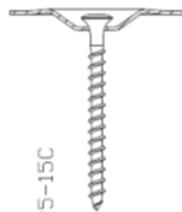


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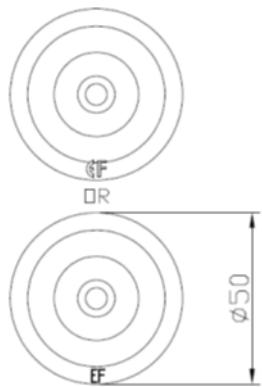
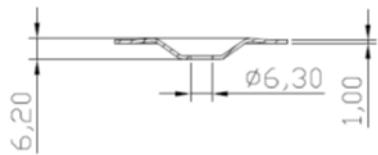
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.8

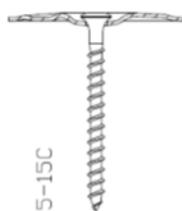
DVP-EF-5010D or EPM-50D-6.3-1.0



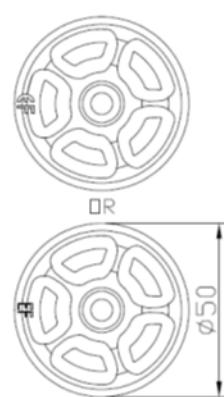
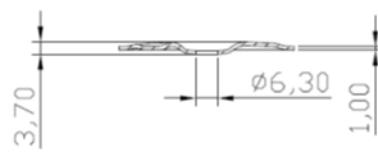
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-EF-5010N or EPM-50N-6.3-1.0



GBS-60xLL or
ERAS-60xLL-0-T25-15C

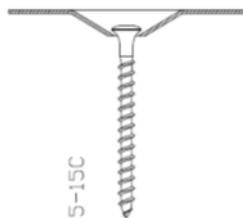


Eurofast Flat Roof Fasteners

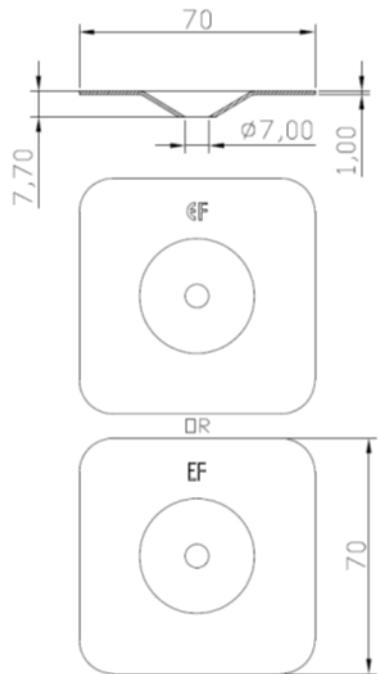
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.9

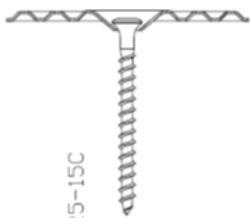
DVP-DF-7070D or EPM-7070D-7.0-1.0



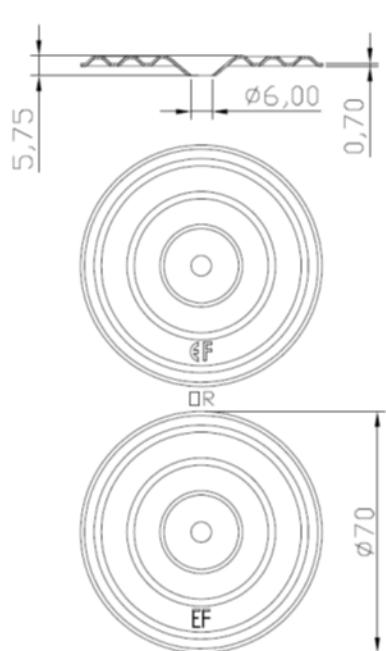
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-EF-7007D or EPM-70D-6.0-0.7



GBS-60xLL or
ERAS-60xLL-0-T25-15C

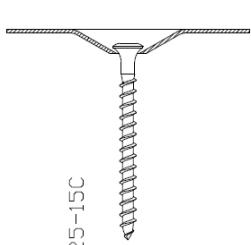


Eurofast Flat Roof Fasteners

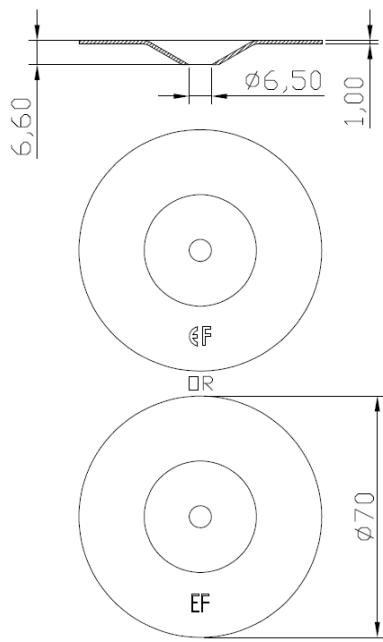
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.10

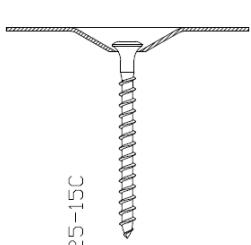
DVP-EF-7010D or EPM-70D-6.5-1.0



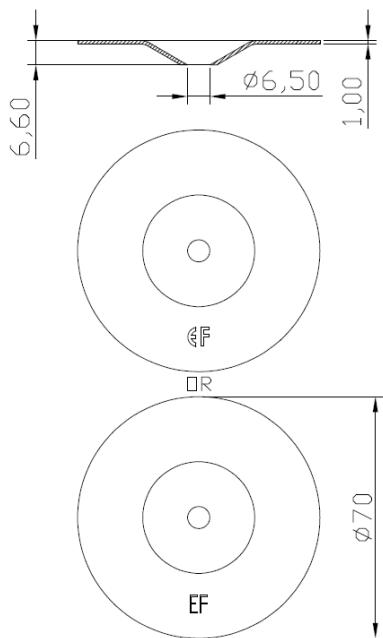
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-EF-7010D or EPM-70D-6.5-1.0



GBS-60xLL or
ERAS-60xLL-0-T25-15C

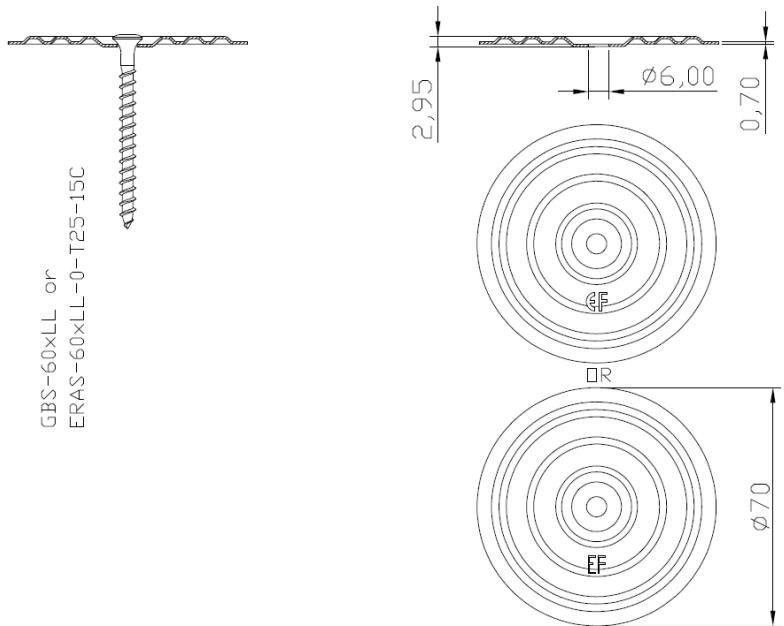


Eurofast Flat Roof Fasteners

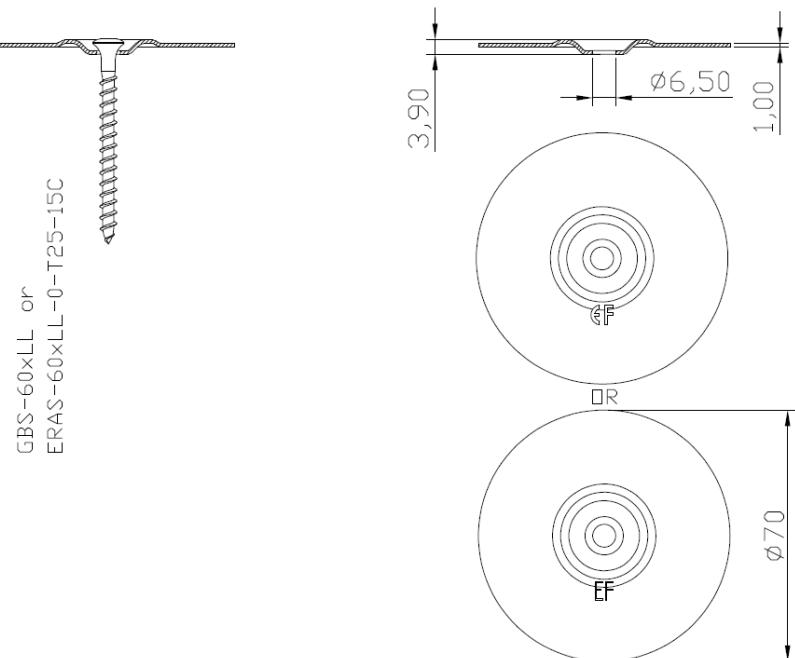
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.11

DVP-EF-7007N or EPM-70N-6.0-0.7



DVP-EF-7010N or EPM-70N-6.5-1.0

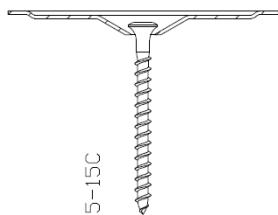


Eurofast Flat Roof Fasteners

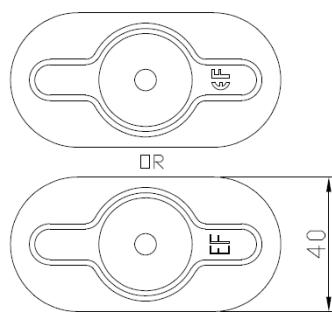
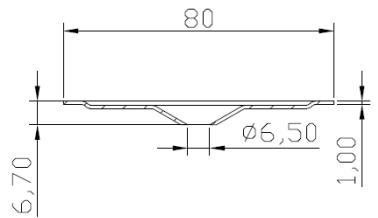
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.12

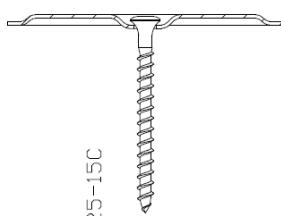
DVP-EF-8040D or EPM-8040D-6,5-1,0



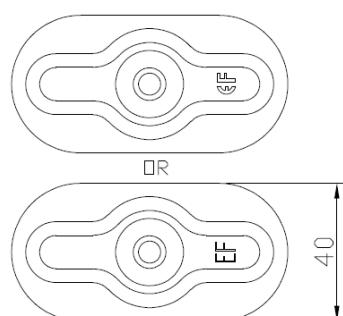
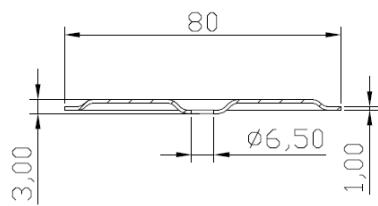
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-EF-8040N or EPM-8040N-6,5-1,0



GBS-60xLL or
ERAS-60xLL-0-T25-15C

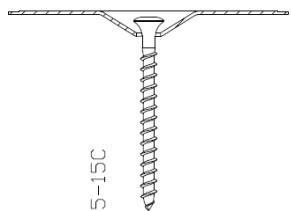


Eurofast Flat Roof Fasteners

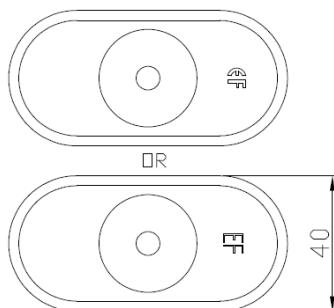
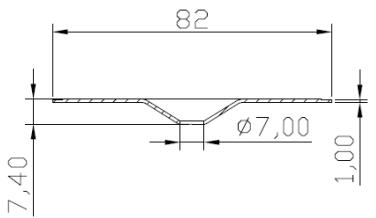
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.13

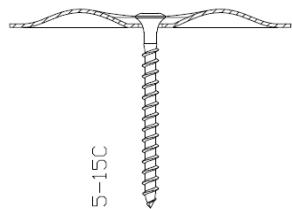
DVP-DF-8240D or EPM-8240D-7.00-1.0



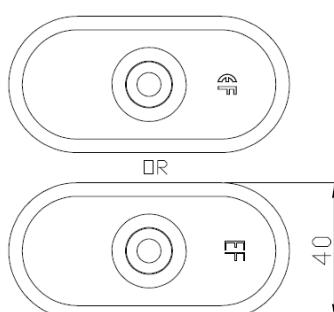
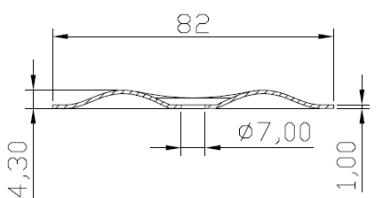
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-DF-8240H or EPM-8240H-7.0-1.0



GBS-60xLL or
ERAS-60xLL-0-T25-15C

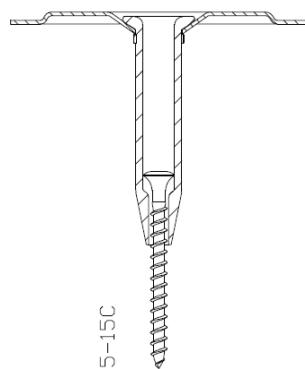


Eurofast Flat Roof Fasteners

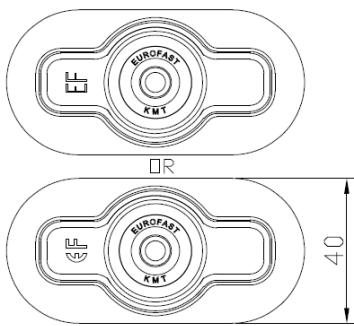
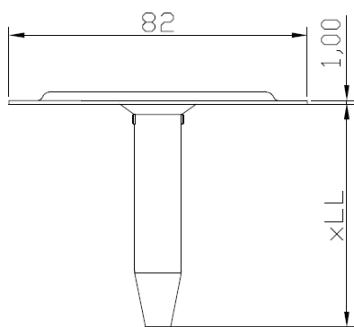
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.14

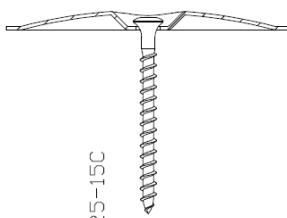
DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13,6-1,0 + EPT-15xLL-PA



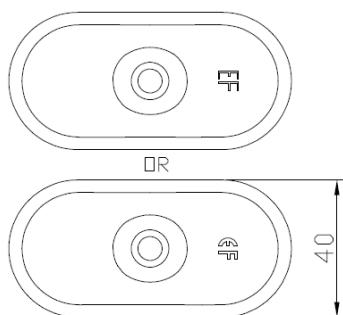
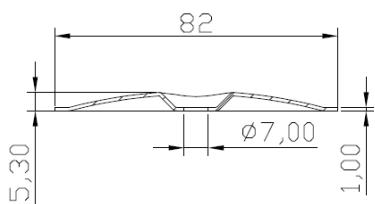
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-DF-8240XH or EPM-8240XH-7,0-1,0



GBS-60xL or
ERAS-60xLL-0-T25-15C

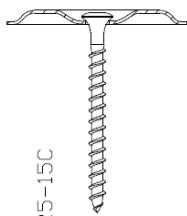


Eurofast Flat Roof Fasteners

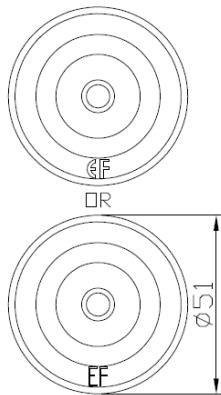
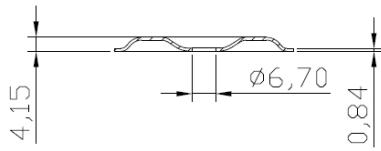
Annex K.15

GBS-60xLL (ERAS-60xLL-0-T25-15C)

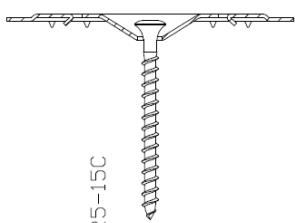
DVP-EF-51N or EPM-51N-6.7-0.84



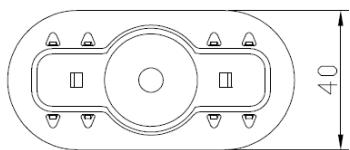
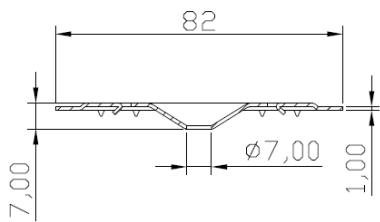
GBS-60xLL or
ERAS-60xLL-0-T25-15C



DVP-DFB-8240D or EPM-B-8240D-7.0-1.0



GBS-60xLL or
ERAS-60xLL-0-T25-15C

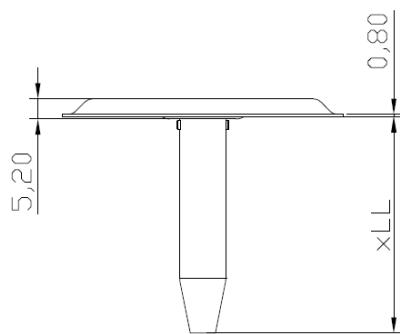
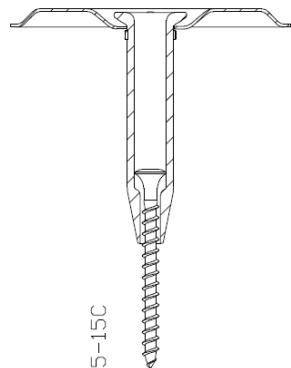


Eurofast Flat Roof Fasteners

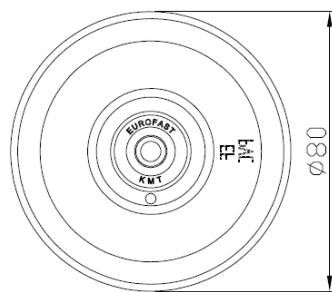
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.16

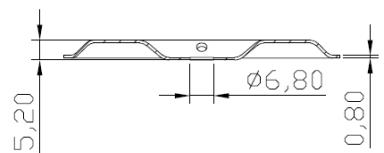
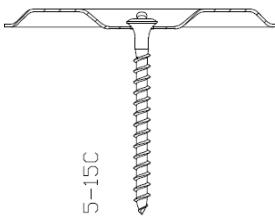
EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



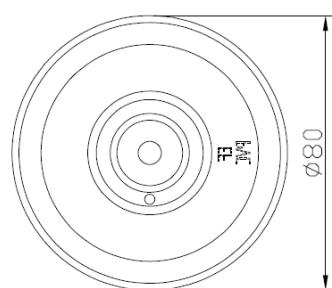
GBS-60xLL or
ERAS-60xLL-0-T25-15C



EPM-IP-80-6,8-0,8



GBS-60xLL or
ERAS-60xLL-0-T25-15C

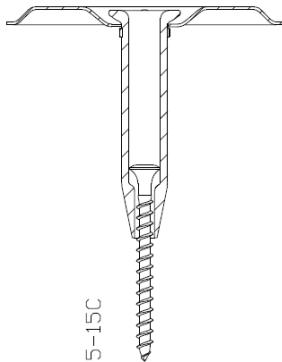


Eurofast Flat Roof Fasteners

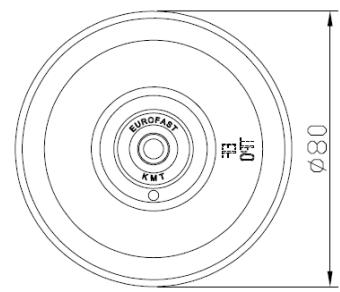
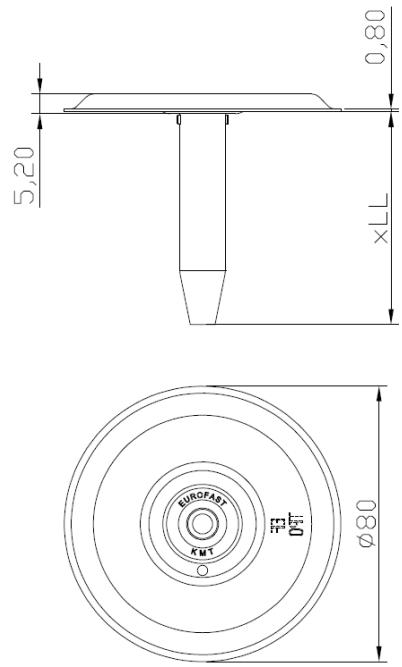
Annex K.17

GBS-60xLL (ERAS-60xLL-0-T25-15C)

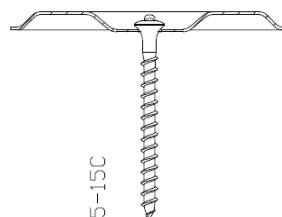
EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



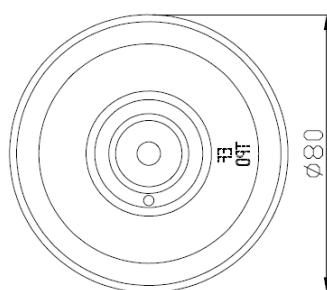
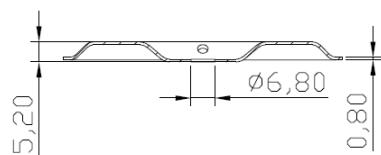
GBS-60xLL or
ERAS-60xLL-0-T25-15C



EPM-IT-80-6,8-0,8



GBS-60xLL or
ERAS-60xLL-0-T25-15C

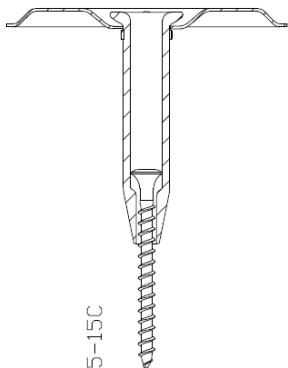


Eurofast Flat Roof Fasteners

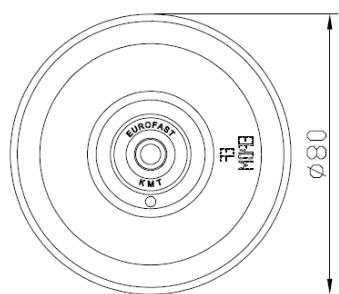
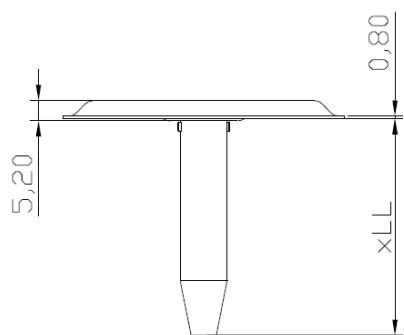
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.18

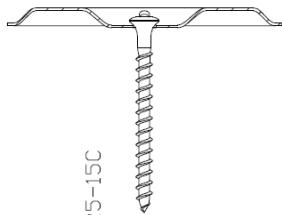
EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



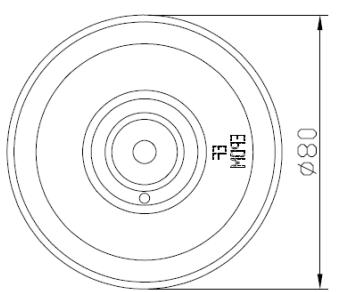
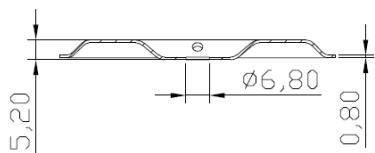
GBS-60xLL or
ERAS-60xLL-0-T25-15C



EPM-IE-80-6,8-0,8



GBS-60xLL or
ERAS-60xLL-0-T25-15C

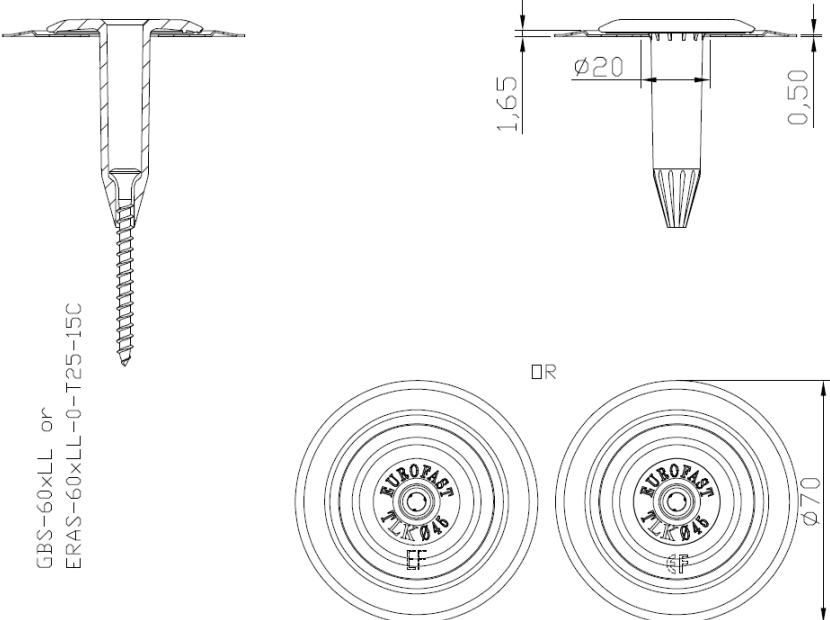


Eurofast Flat Roof Fasteners

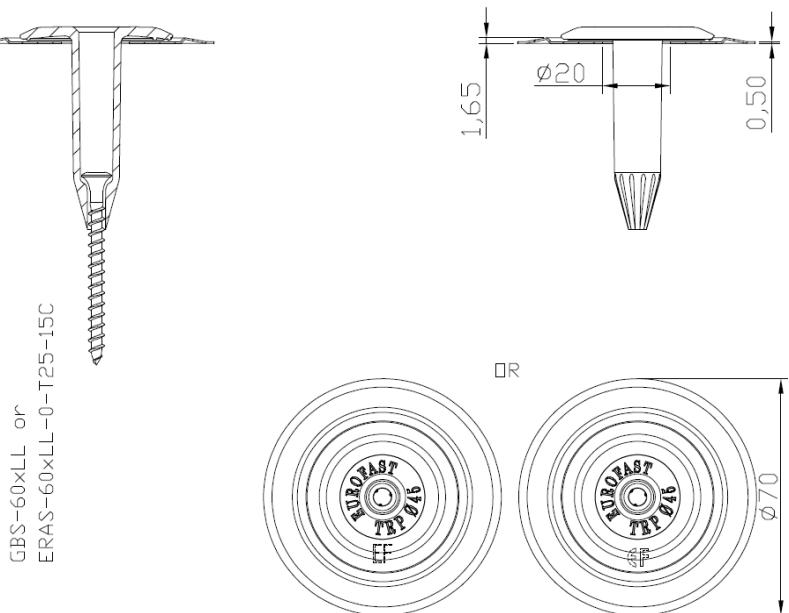
GBS-60xLL (ERAS-60xLL-0-T25-15C)

Annex K.19

DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



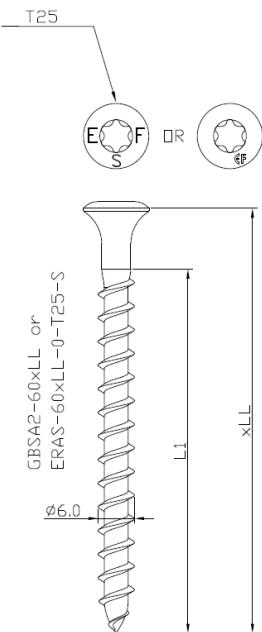
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

Annex K.20

GBS-60xLL (ERAS-60xLL-0-T25-15C)



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)								
	Autoclaved aerated concrete AAC 600 kg/m ³	OSB/3			Chipboard	Plywood		Timber C24
t [mm]	-	16	18	21	25	19	18	21
GBSA2-60xLL (ERAS-60xLL-0-T25-S)	1,37	0,82	1,50	1,51	1,57	1,53	1,36	1,57

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)		
	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	-	EPM-IT-80-6.8-0.8
	-	EPM-IE-80-6.8-0.8
GBSA2-60xLL (ERAS-60xLL-0-T25-S)	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

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GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-	-
BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-	-
TWP-8040xLL (EPT-8040xLL-PA)	-	-	-
EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-	-
DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-	-
EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-	-
DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-	-
GBSA2-60xLL (ERAS-60xLL-0-T25-S)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)
DVP-EF-7010D (EPM-70D-6.5-1.0)	-	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7007H (EPM-70H-6.0-0.7)
DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-7007N (EPM-70N-6.0-0.7)
DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
GBSA2-60xLL (ERAS-60xLL-0-T25-S)	5,05	4,43	3,89	2,96	2,91

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.2

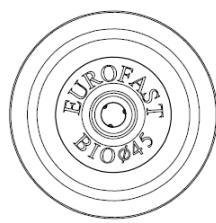
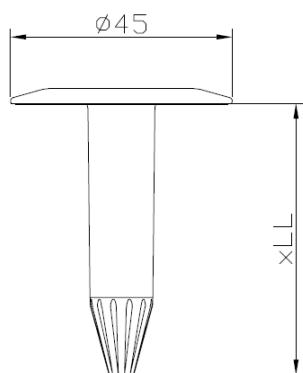
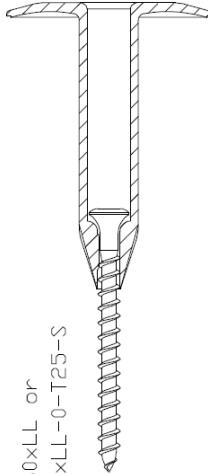
Screw: GBSA2-60xLL	(ERAS-60xLL-0-T25-S)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-EF-51N	(EPM-51N-6.7-0.84)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IE-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7007N	(EPM-70N-6.0-0.7)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)		
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)		
TWP-8040xLL	(EPT-8040xLL-PA)		
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Autoclaved aerated concrete	AAC 600 kg/m ³	EN 12602	
Concrete	C12/15, C20/25, C25/30	EN 206	
OSB/3	$\rho_{min} = 550 \text{ kg/m}^3$	EN 12369-1	
Chipboard	$\rho_{min} = 600 \text{ kg/m}^3$	EN 12369-1	
Plywood	$\rho_{min} = 400 \text{ kg/m}^3$	EN 12369-2	
Timber, class ≥ C24	$\rho_{min} = 350 \text{ kg/m}^3$	EN 338	
Installation data:			
HUKAD type:		Raised Bugle HUKAD	
Recess:		TX25	
Effective anchoring depth in autoclaved aerated concrete substrate h_{ef} :		≥ 60 mm	
Fixing in wooden and wood-based substrate:		Full thread through the substrate or minimum embedment depth	
Installation force of installation tool in autoclaved aerated concrete substrate		15 kg	
Installation tool speed in autoclaved aerated concrete substrate:		1000 rpm	
Installation force of installation tool in wooden and wood-based substrate:		30 kg	
Installation tool speed in wooden and wood-based substrate:		2000 - 2500 rpm	

Eurofast Flat Roof Fasteners

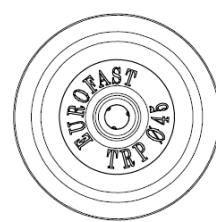
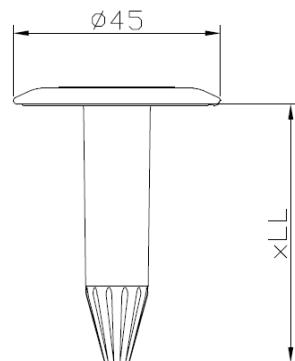
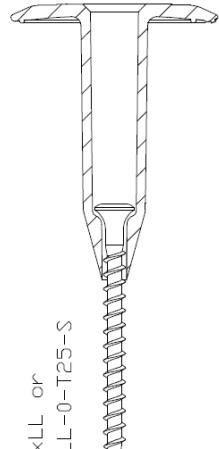
Annex L.3

GBSA2-60xLL (ERAS-60xLL-0-T25-S)

BIO-45xLL or EPT-45xLL-BIO



TRP-45xLL or EPT-45xLL-PA

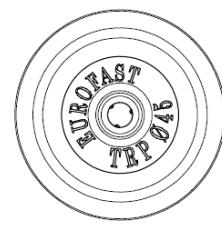
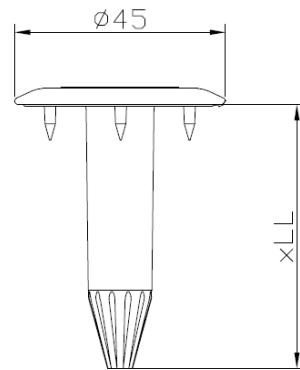
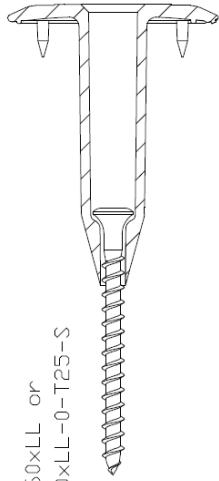


Eurofast Flat Roof Fasteners

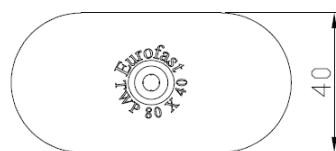
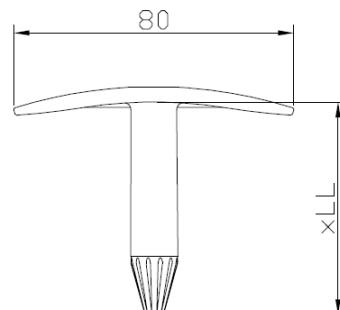
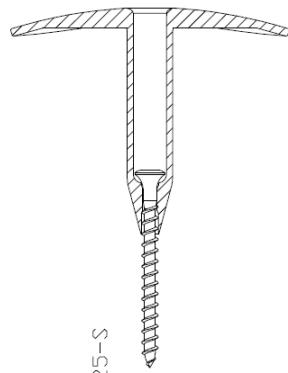
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.4

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

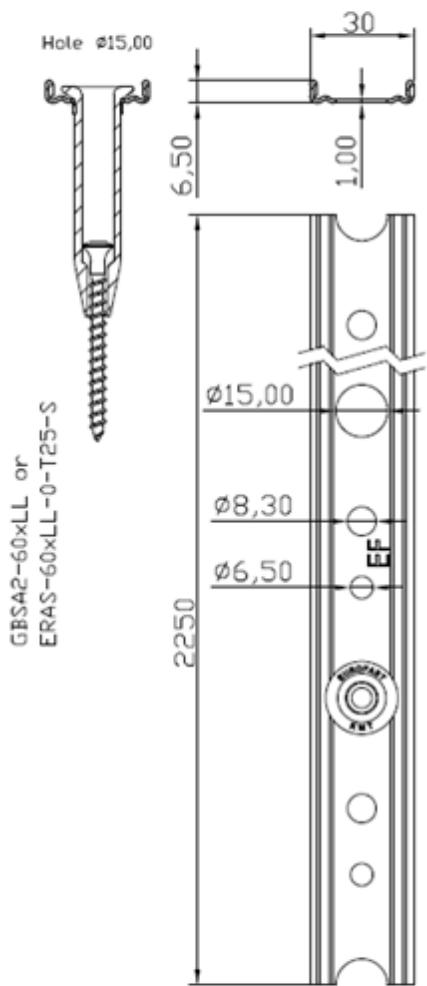


Eurofast Flat Roof Fasteners

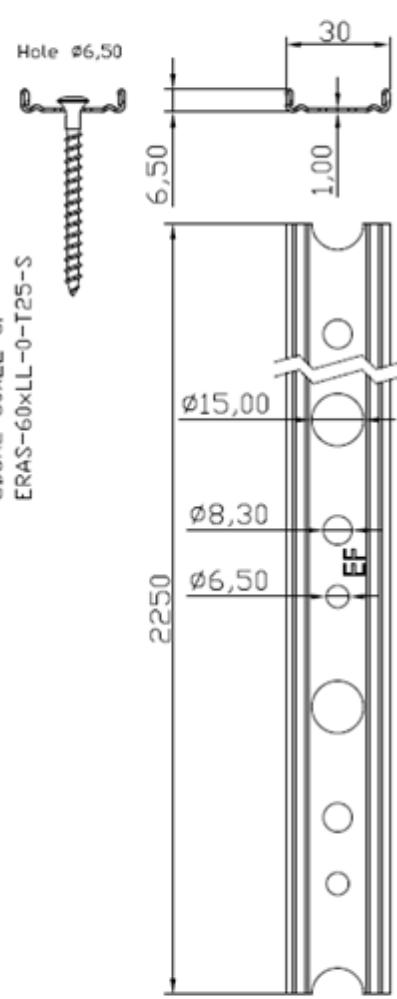
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

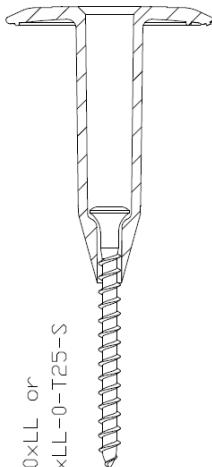


Eurofast Flat Roof Fasteners

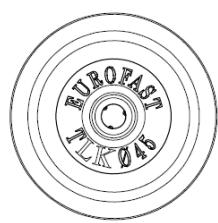
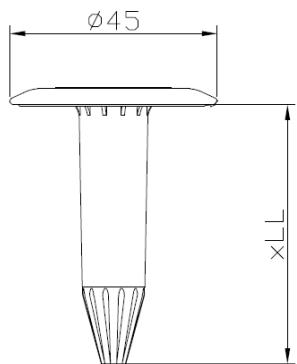
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.6

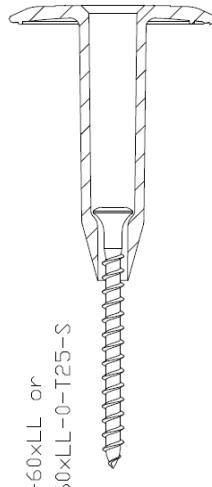
TLK-45xLL or EPT-45xLL-PP



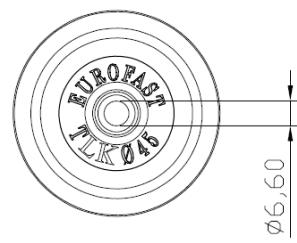
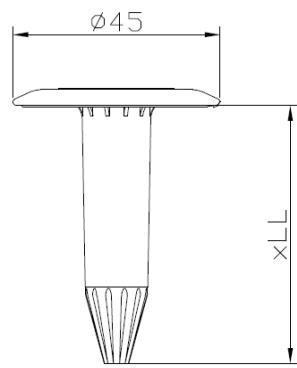
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



HTLK-45xLL or EPT-Ø-45xLL-PP



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

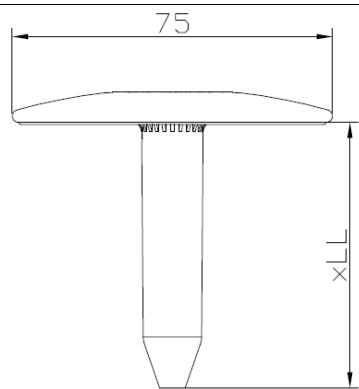
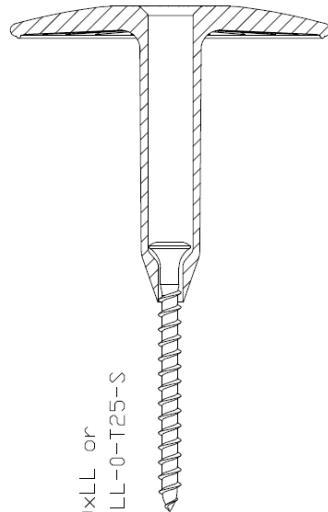


Eurofast Flat Roof Fasteners

GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.7

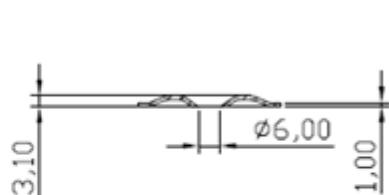
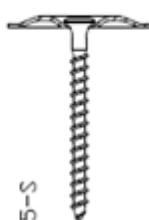
TLK-75xLL or EPT-75xLL-PP



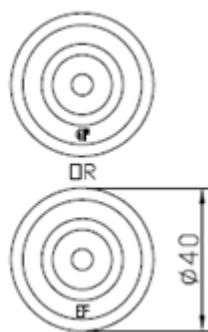
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-4010N or EPM-40N-6.0-L0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

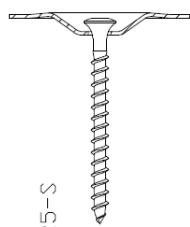


Eurofast Flat Roof Fasteners

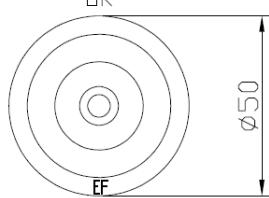
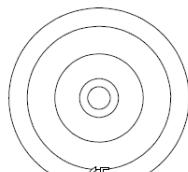
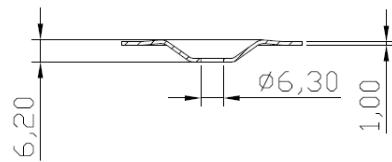
Annex L.8

GBSA2-60xLL (ERAS-60xLL-0-T25-S)

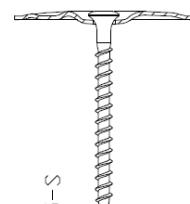
DVP-EF-5010D or EPM-50D-6.3-1.0



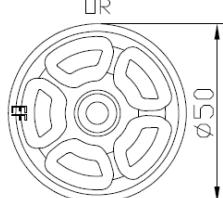
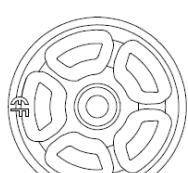
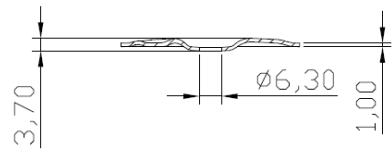
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-5010N or EPM-50N-6.3-1.0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

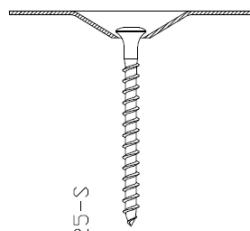


Eurofast Flat Roof Fasteners

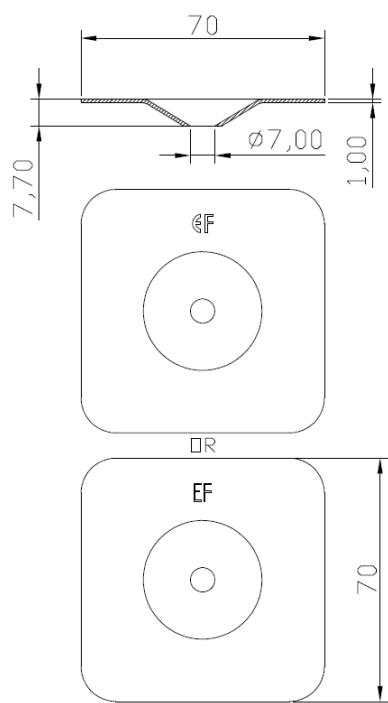
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.9

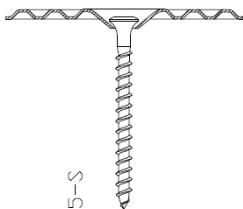
DVP-DF-7070D or EPM-7070D-7.0-1.0



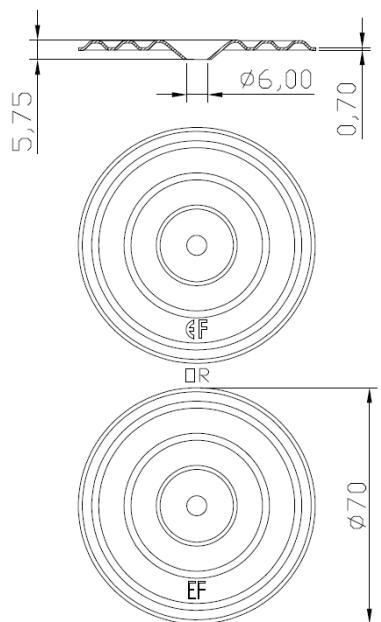
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-7007D or EPM-70D-6.0-0,7



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

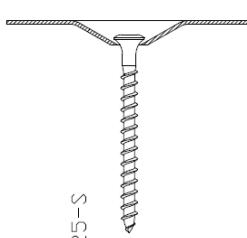


Eurofast Flat Roof Fasteners

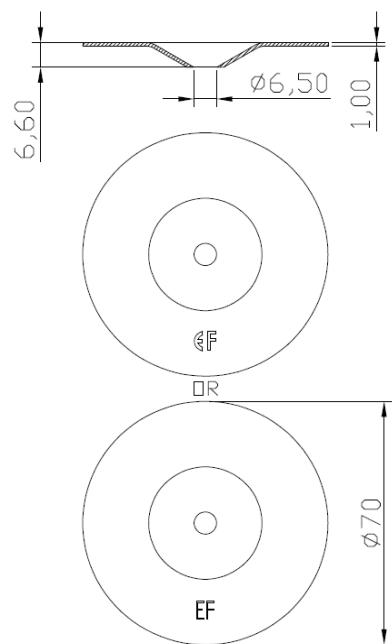
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.10

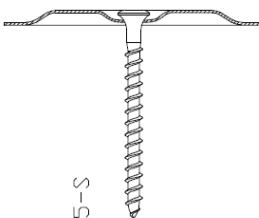
DVP-EF-7010D or EPM-70D-6.5-1.0



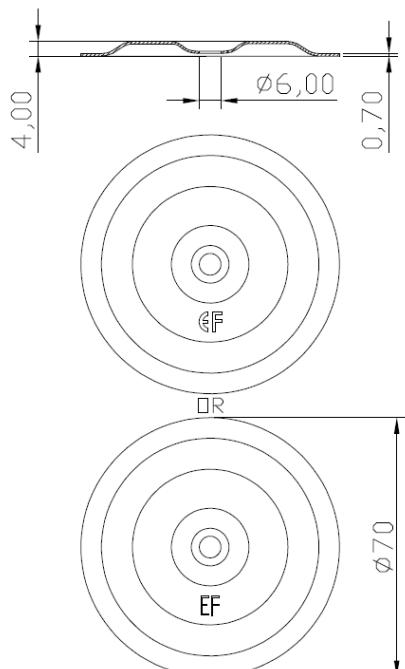
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-7007H or EPM-70H-6.0-0.7



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

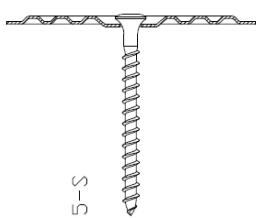


Eurofast Flat Roof Fasteners

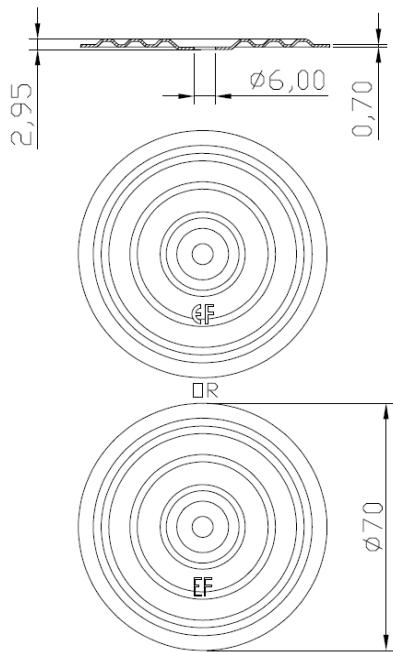
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.11

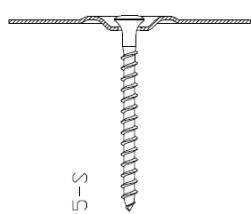
DVP-EF-7007N or EPM-70N-6.0-0.7



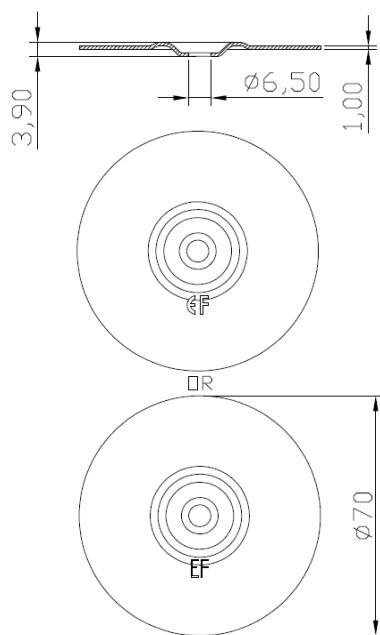
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-7010N or EPM-70N-6.5-1.0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

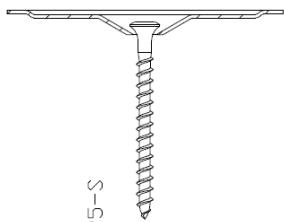


Eurofast Flat Roof Fasteners

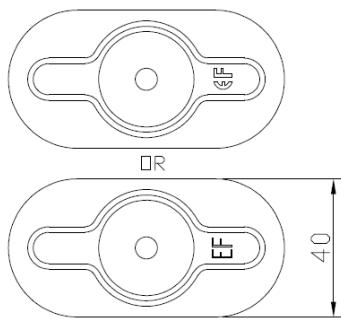
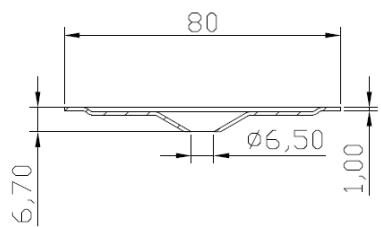
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.12

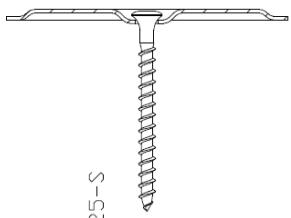
DVP-EF-8040D or EPM-8040D-6.5-1.0



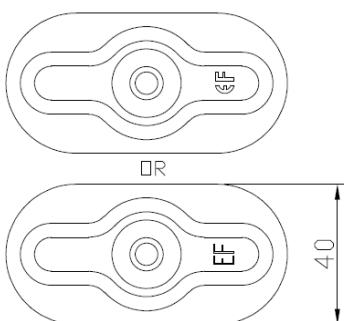
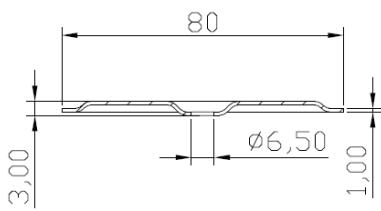
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-EF-8040N or EPM-8040N-6.5-1.0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

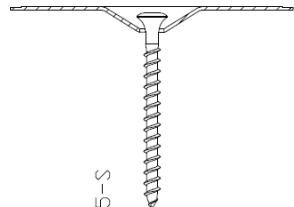


Eurofast Flat Roof Fasteners

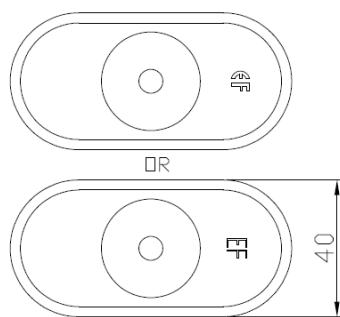
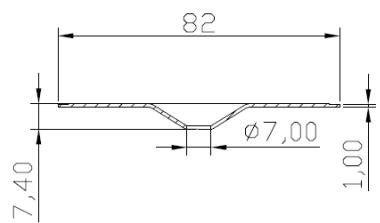
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.13

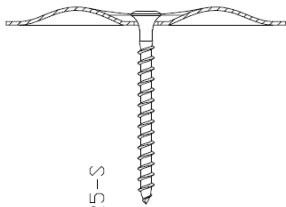
DVP-DF-8240D or EPM-8240D-7.00-1.0



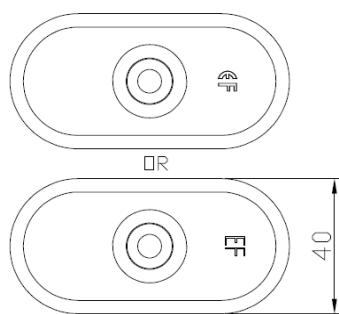
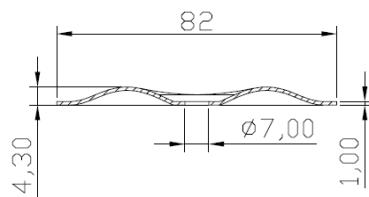
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-DF-8240H or EPM-8240H-7.0-1.0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

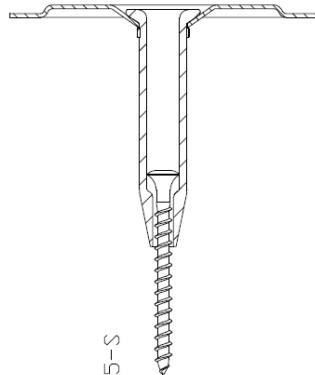


Eurofast Flat Roof Fasteners

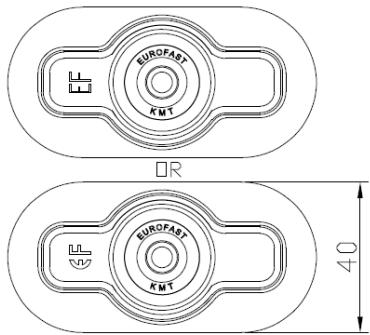
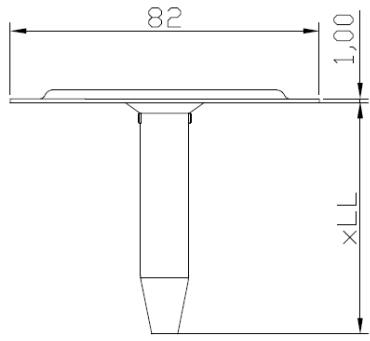
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.14

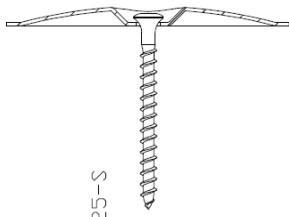
DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13,6-1,0 + EPT-15xLL-PA



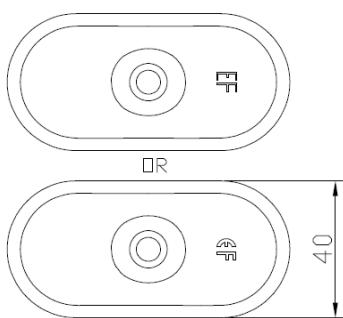
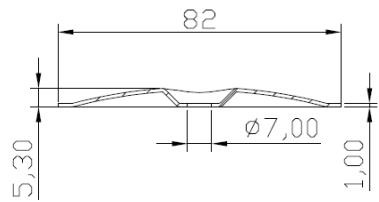
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-DF-8240XH or EPM-8240XH-7,0-1,0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

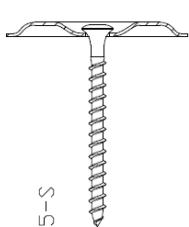


Eurofast Flat Roof Fasteners

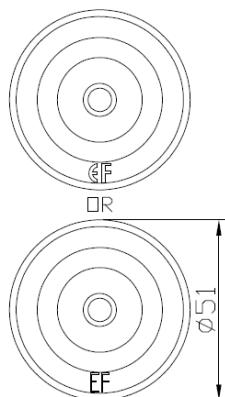
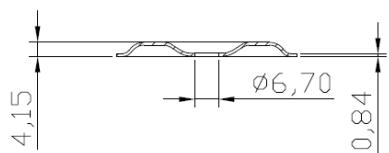
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.15

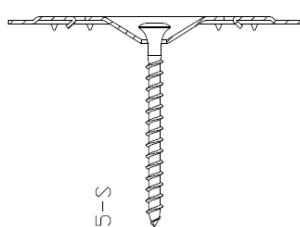
DVP-EF-51N or EPM-51N-6,7-0,84



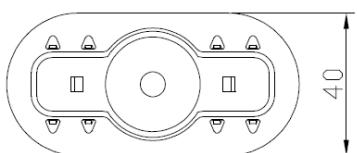
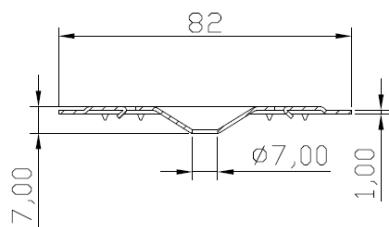
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

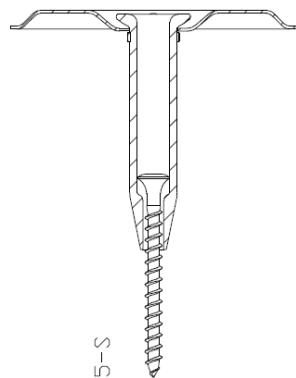


Eurofast Flat Roof Fasteners

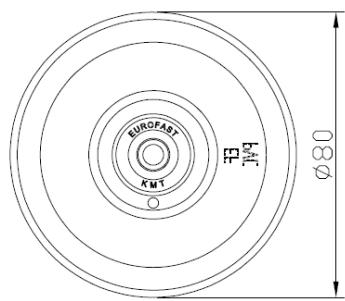
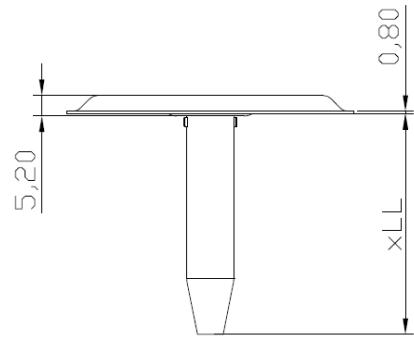
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.16

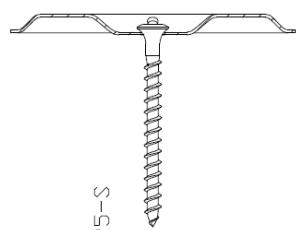
EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



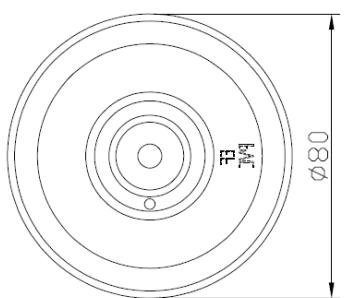
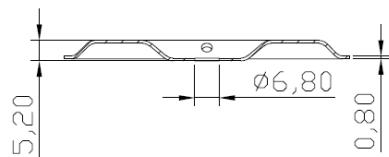
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



EPM-IP-80-6,8-0,8



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

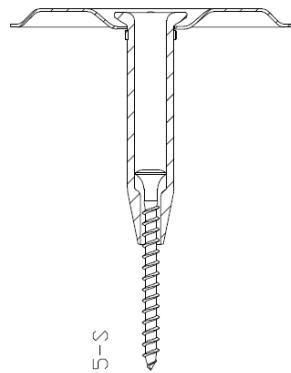


Eurofast Flat Roof Fasteners

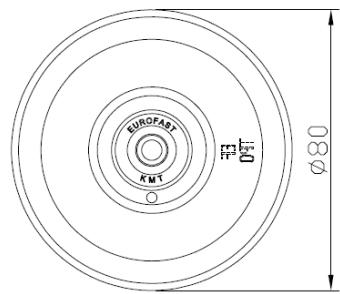
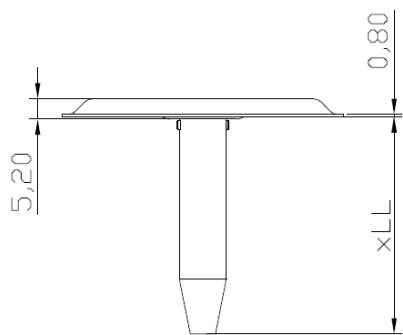
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.17

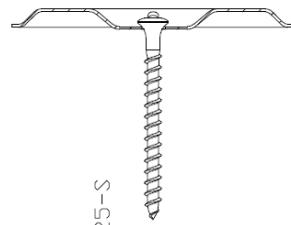
EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



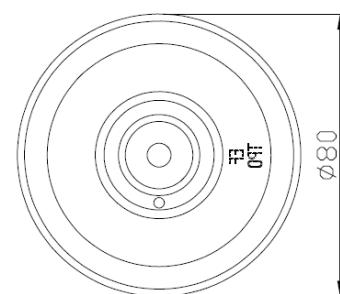
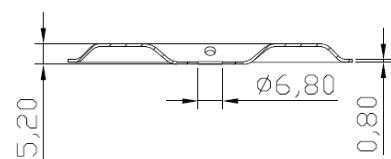
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



EPM-IT-80-6,8-0,8



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

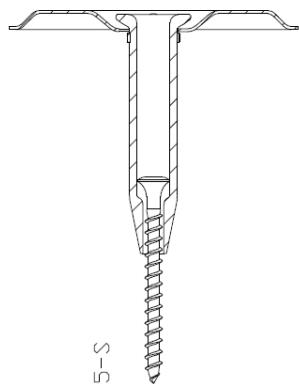


Eurofast Flat Roof Fasteners

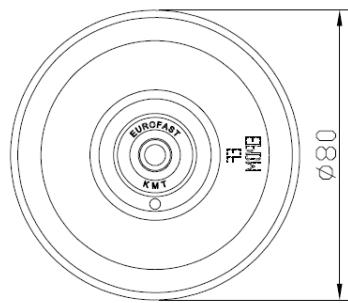
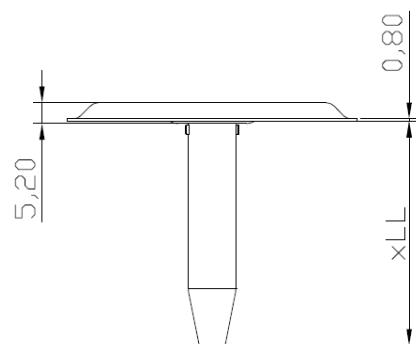
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.18

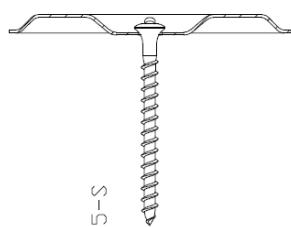
EPM-T-IE-80-13.6-0.8 + KMT-15xLL or
EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA



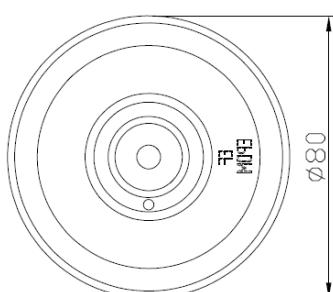
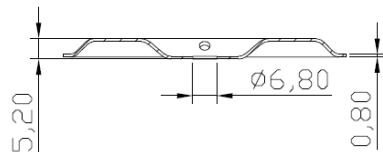
GBSA2-60xLL or
ERAS-60xLL-0-T25-S



EPM-IE-80-6.8-0.8



GBSA2-60xLL or
ERAS-60xLL-0-T25-S

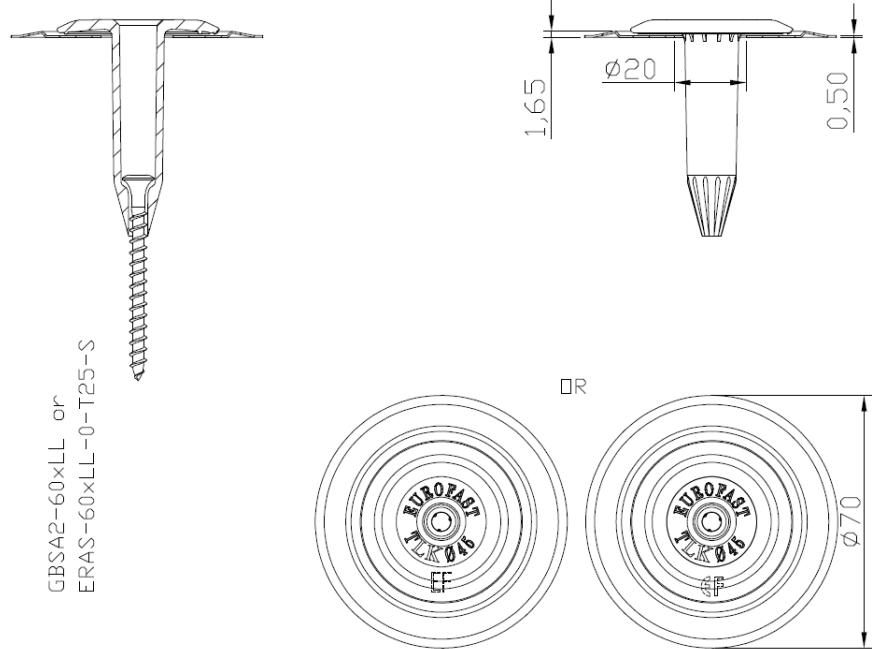


Eurofast Flat Roof Fasteners

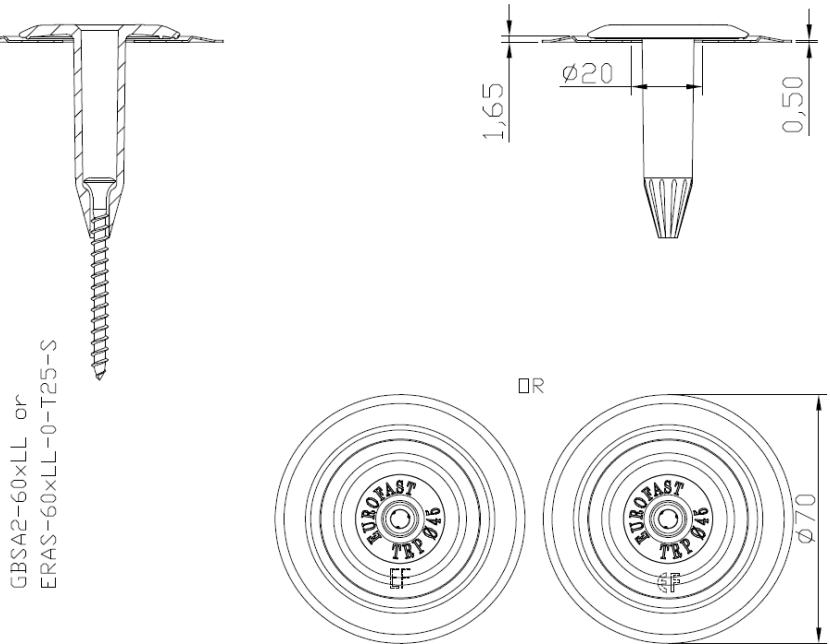
GBSA2-60xLL (ERAS-60xLL-0-T25-S)

Annex L.19

DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



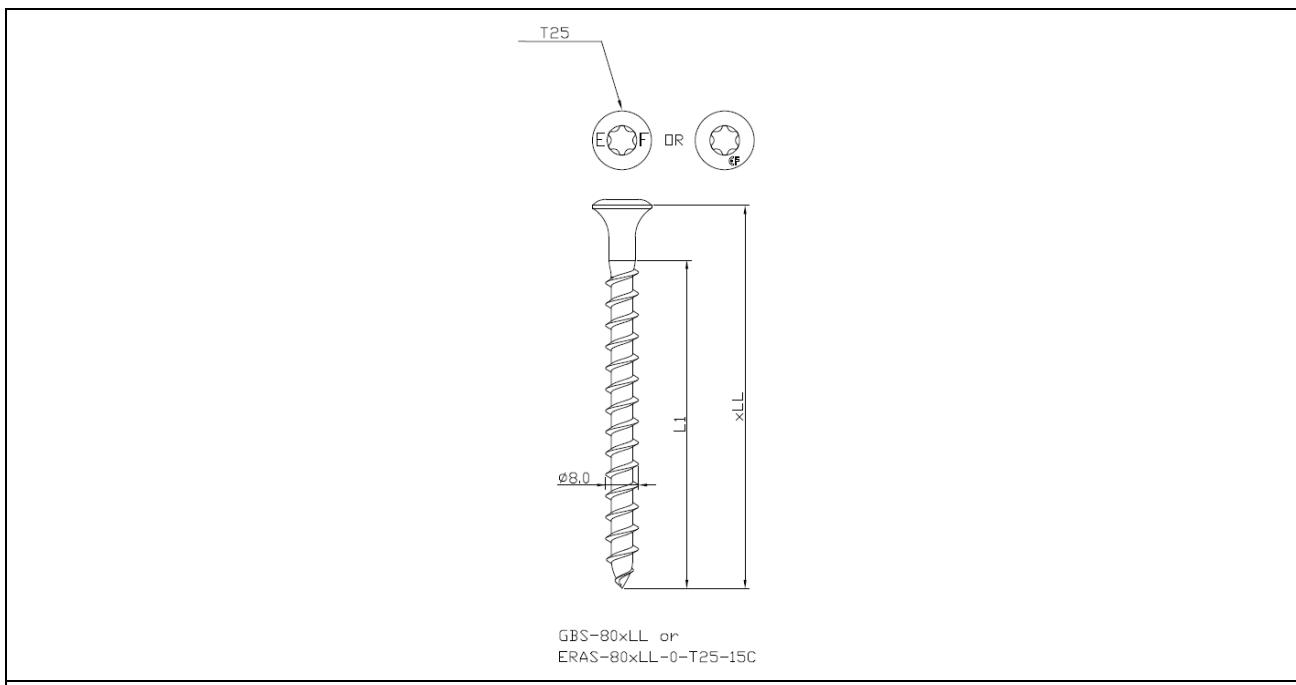
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

Annex L.20

GBSA2-60xLL (ERAS-60xLL-0-T25-S)



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)					
	Autoclaved aerated concrete AAC 450 kg/m ³	Autoclaved aerated concrete AAC 550 kg/m ³	Concrete C12/15 (drill 6,0 mm)	Concrete C20/25 (drill 6,0 mm)	Chipboard
t [mm]	-	-	-	-	19
GBS-80xLL (ERAS-80xLL-0-T25-15C)	0,98	1,52	4,03	5,20	1,59

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)				
	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-8040N-9 (EPM-8040N-9.0-1.0)	DVP-EF-51N (EPM-51N-6.7-0.84)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	-	EPM-IP-80-6.8-0.8
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-DF-8240H (EPM-8240H-7.0-1.0)	-	EPM-IT-80-6.8-0.8
	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-	EPM-IE-80-6.8-0.8
	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-	-
GBS-80xLL (ERAS-80xLL-0-T25-15C)	5,05	3,77	1,77	3,88

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners	Annex M.1
GBS-80xLL (ERAS-80xLL-0-T25-15C)	

Screw:
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Metal pressure plate:

DVP-DF-7070D	(EPM-7070D-7.0-1.0)
DVP-EF-8040N-9	(EPM-8040N-9.0-1.0)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-51N	(EPM-51N-6.7-0.8)
DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
EPM-IP-80-6.8-0.8	
EPM-IT-80-6.8-0.8	
EPM-IE-80-6.8-0.8	

Termination bar:

EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)
EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)
EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)

Substrate:

Autoclaved aerated concrete	AAC 450 kg/m ³	EN 12602
Autoclaved aerated concrete	AAC 550 kg/m ³	EN 12602
Concrete	C12/15, C20/25	EN 206
Chipboard	$\rho_{min} = 600\text{kg/m}^3$	EN 12369-1

Installation data:

HUKAD type:	Raised Bugle HUKAD
Recess:	TX25
Effective anchoring depth in autoclaved aerated concrete substrate h_{ef} :	$\geq 60\text{ mm}$
Effective anchoring depth in concrete substrate h_{ef} :	$\geq 25\text{ mm}$
Concrete drill diameter:	6.0 mm
Drilled hole depth in concrete:	$h_{ef} + 12\text{ mm}$
Fixing in wooden substrate:	Full thread through the substrate or minimum embedment depth
Installation force of installation tool on autoclaved aerated concrete:	15 kg
Installation tool speed on autoclaved aerated concrete:	1000 rpm
Installation force of installation tool on concrete:	15 kg + impact
Installation tool speed on concrete:	100 rpm
Installation force of installation tool in wooden substrate:	30 kg
Installation tool speed in wooden substrate:	2000 - 2500 rpm

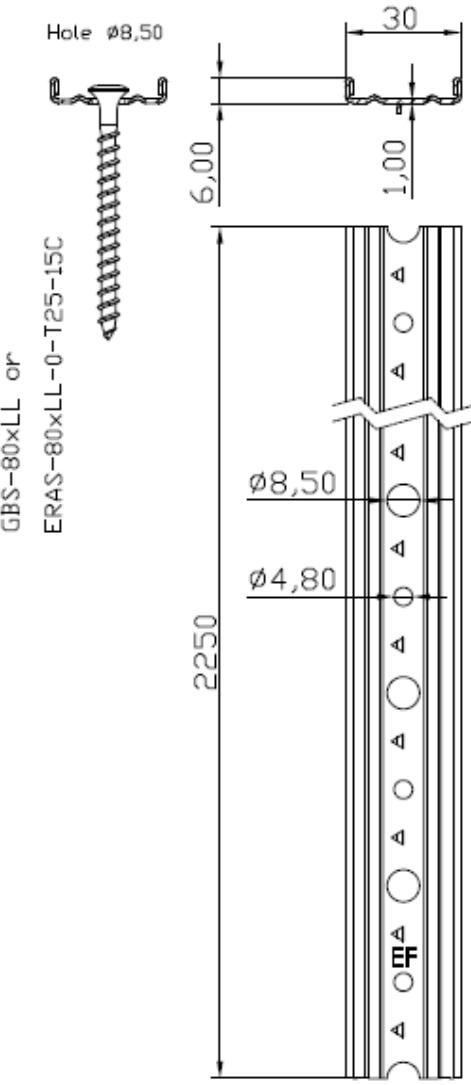
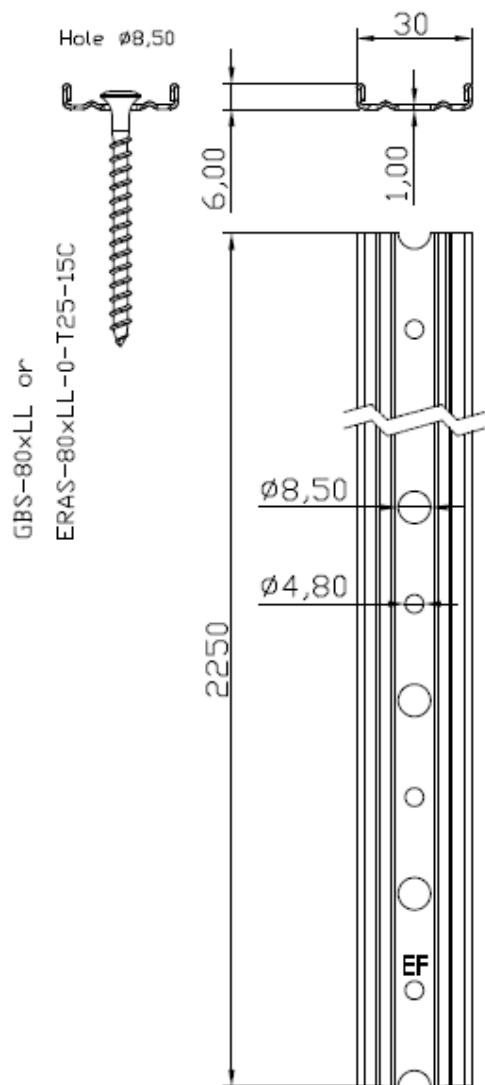
Eurofast Flat Roof Fasteners

GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.2

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0

EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

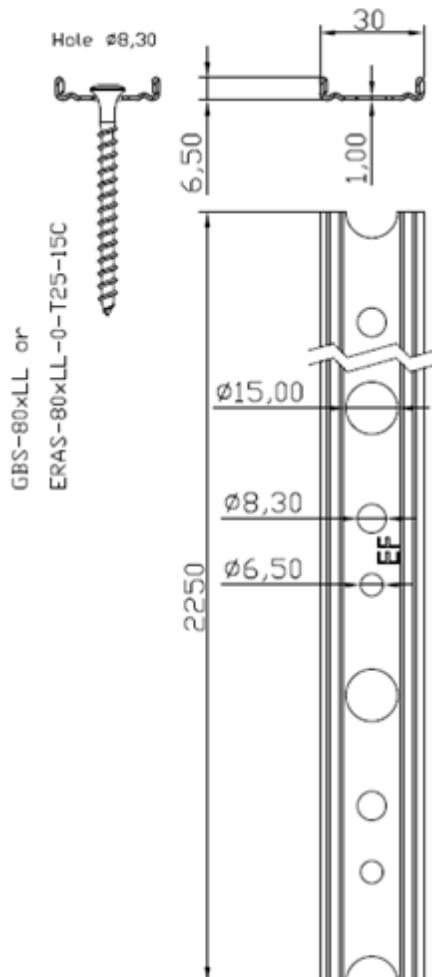


Eurofast Flat Roof Fasteners

GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.3

EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

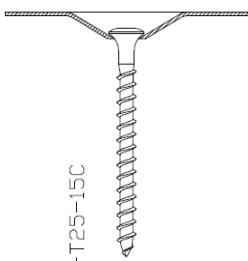


Eurofast Flat Roof Fasteners

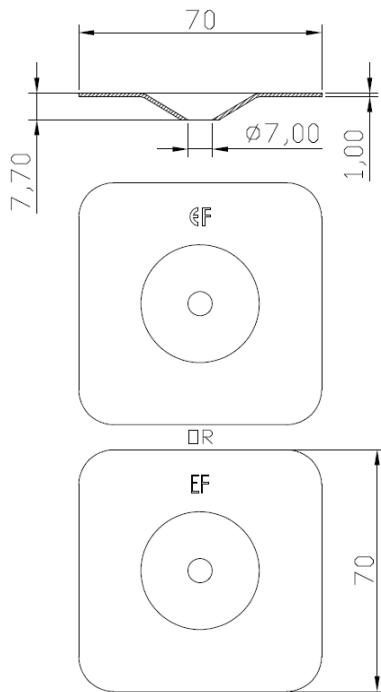
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.4

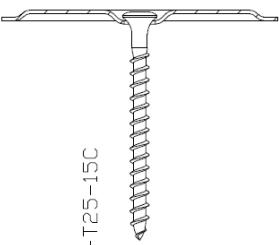
DVP-DF-7070D or EPM-7070D-7.0-1.0



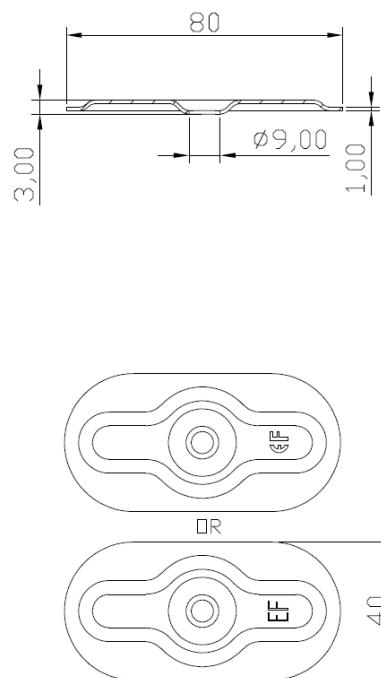
GBS-80xLL or
ERAS-80xLL-0-T25-15C



DVP-EF-8040N-9 or EPM-8040N-9.0-1.0



GBS-80xLL or
ERAS-80xLL-0-T25-15C

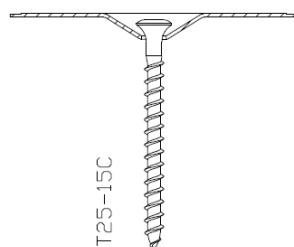


Eurofast Flat Roof Fasteners

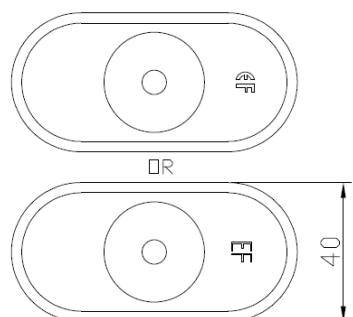
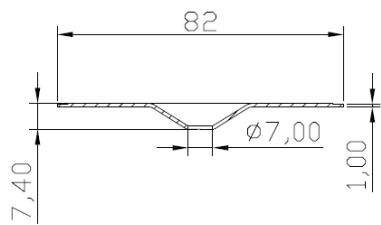
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.5

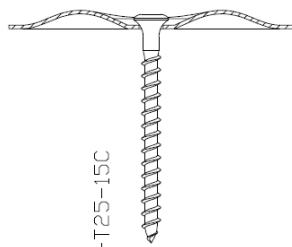
DVP-DF-8240D or EPM-8240D-7.00-1.0



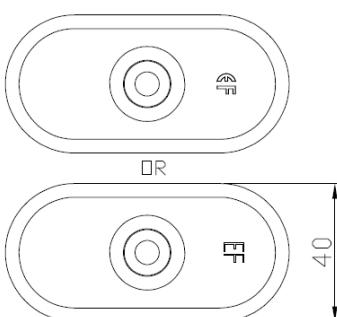
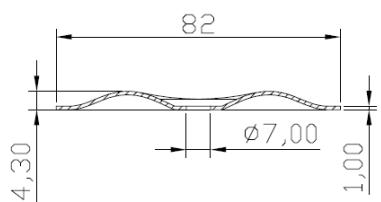
GBS-80xLL or
ERAS-80xLL-0-T25-15C



DVP-DF-8240H or EPM-8240H-7.0-1.0



GBS-80xLL or
ERAS-80xLL-0-T25-15C

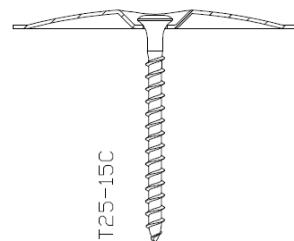


Eurofast Flat Roof Fasteners

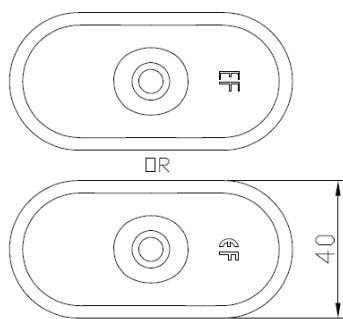
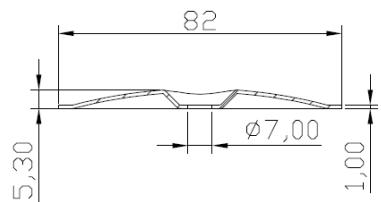
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.6

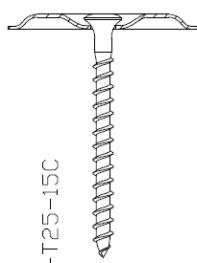
DVP-DF-8240XH or EPM-8240XH-7.0-1.0



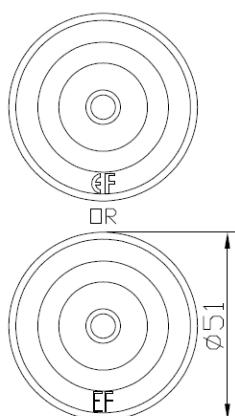
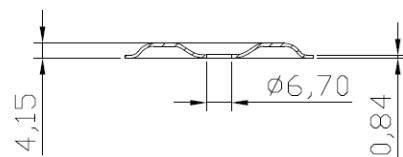
GBS-80xLL or
ERAS-80xLL-0-T25-15C



DVP-EF-51N or EPM-51N-6.7-0.84



GBS-80xLL or
ERAS-80xLL-0-T25-15C

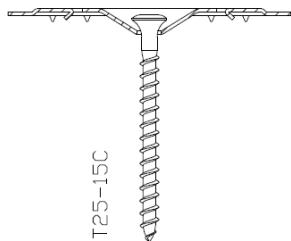


Eurofast Flat Roof Fasteners

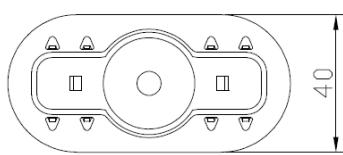
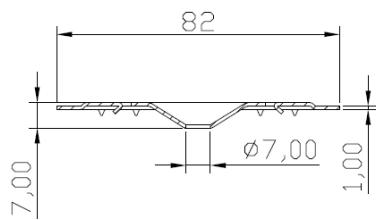
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.7

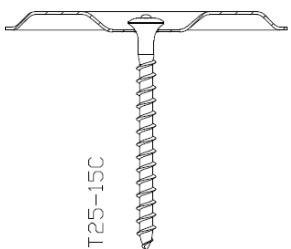
DVP-DFB-8240D or EPM-B-8240D-7.0-1.0



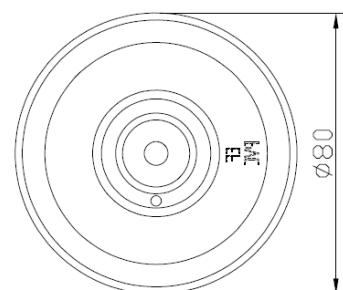
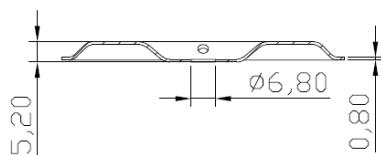
GBS-80xLL or
ERAS-80xLL-0-T25-15C



EPM-IP-80-6,8-0,8



GBS-80xLL or
ERAS-80xLL-0-T25-15C

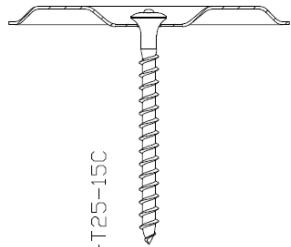


Eurofast Flat Roof Fasteners

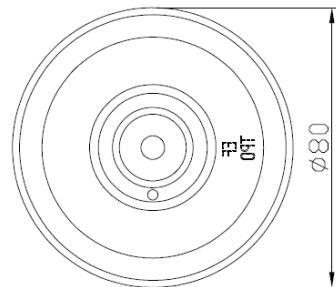
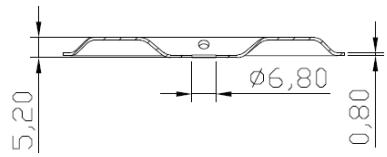
GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.8

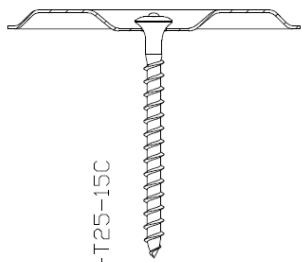
EPM-IT-80-6.8-0.8



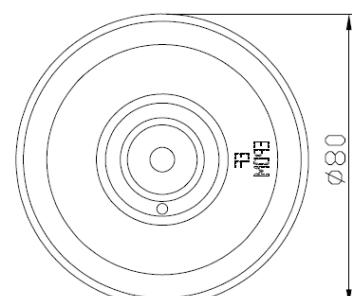
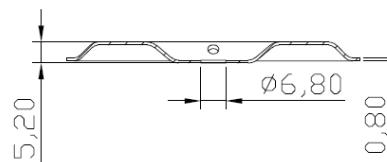
GBS-80xLL or
ERAS-80xLL-0-T25-15C



EPM-IE-80-6.8-0.8



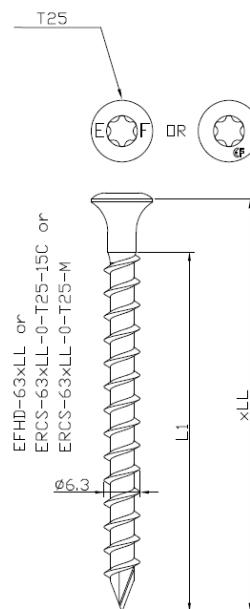
GBS-80xLL or
ERAS-80xLL-0-T25-15C



Eurofast Flat Roof Fasteners

GBS-80xLL (ERAS-80xLL-0-T25-15C)

Annex M.9



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)				
	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,2 mm)*	Concrete C20/25 (drill 5,5 mm)**	Concrete C25/30 (drill 5,5 mm)**
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)	2,02	2,61	2,40	2,62

* value also valid for holes drilled with 5,0 mm drills

** value also valid for holes drilled with 5,2 mm or 5,0 mm drills

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)		
	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	-	EPM-IT-80-6.8-0.8
	-	EPM-IE-80-6.8-0.8
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex N.1

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through** Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7007H (EPM-70H-6.0-0.7)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-7007N (EPM-70N-6.0-0.7)
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)	5,05	4,43	3,89	2,96	2,91

** "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners	Annex N.2
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)	

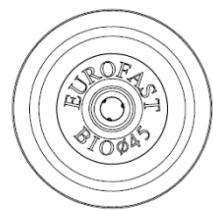
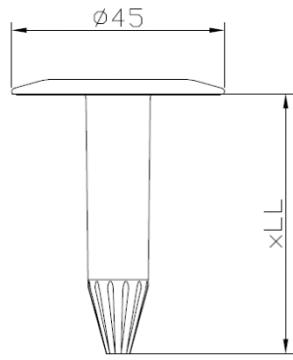
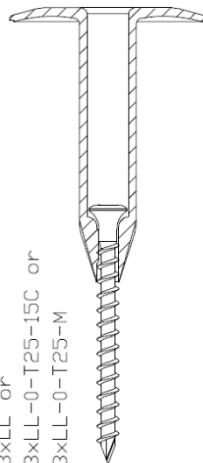
Screw:	EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-EF-51N	(EPM-51N-6.7-0.84)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IE-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7007N	(EPM-70N-6.0-0.7)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)		
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)		
TWP-8040xLL	(EPT-8040xLL-PA)		
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Concrete	C12/15, C20/25, C25/30	EN 206	
Technical data			
HUKAD type:		Raised Bugle HUKAD	
Recess:		TX25	
Effective anchoring depth h_{ef} :		≥ 30 mm	
Concrete drill diameter in concrete C12/15:		5.0 mm	
Concrete drill diameter in concrete C20/25:		5.2 or 5.5 mm	
Concrete drill diameter in concrete C25/30:		5.5 mm	
Drilled hole depth:		$h_{ef} + 10$ mm	
Installation force of installation tool:		15 kg + impact	
Installation tool speed:		100 rpm	

Eurofast Flat Roof Fasteners

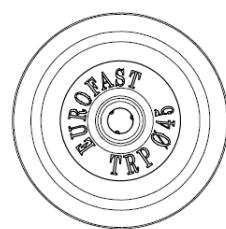
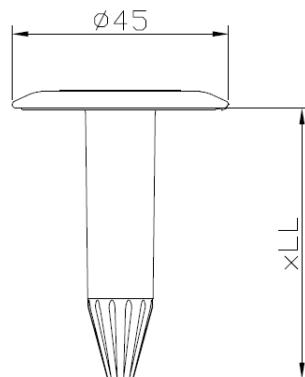
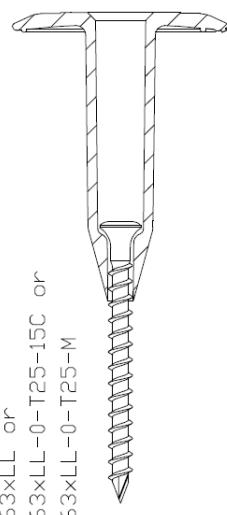
Annex N.3

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

BIO-45xLL or EPT-45xLL-BIO



TRP-45xLL or EPT-45xLL-PA

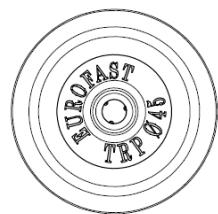
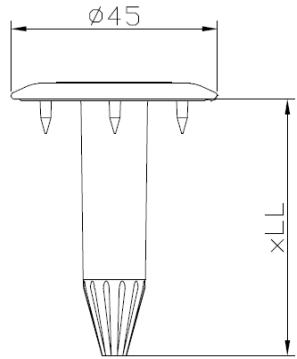
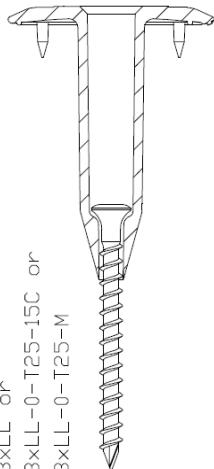


Eurofast Flat Roof Fasteners

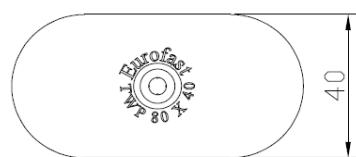
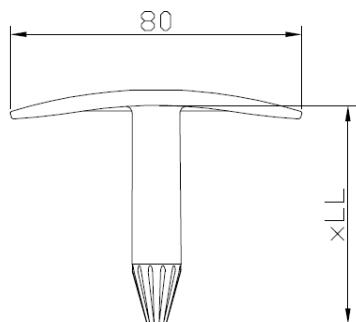
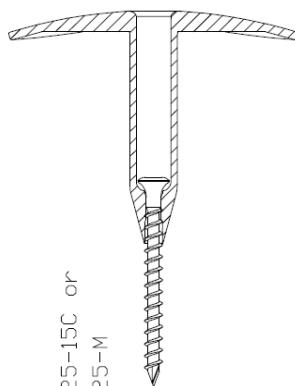
Annex N.4

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

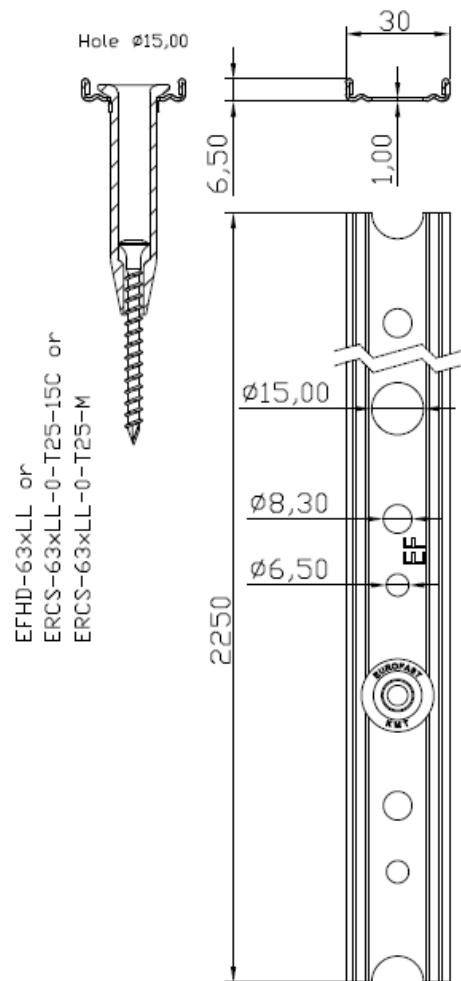


Eurofast Flat Roof Fasteners

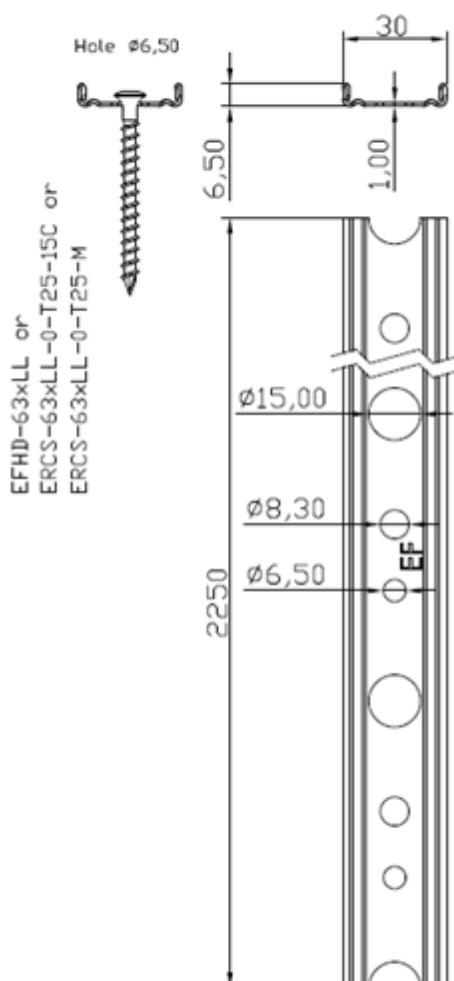
Annex N.5

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

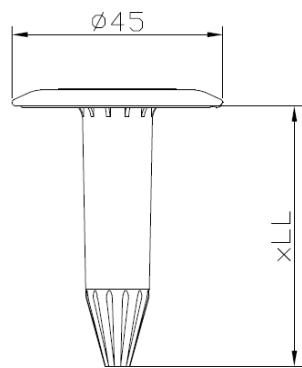
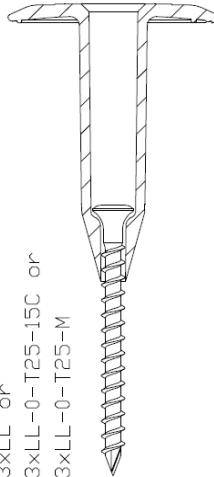


Eurofast Flat Roof Fasteners

Annex N.6

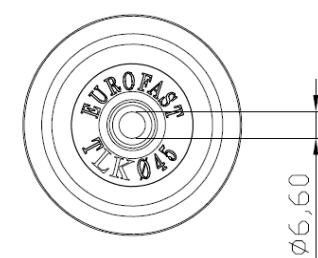
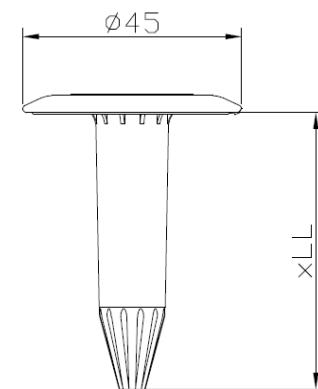
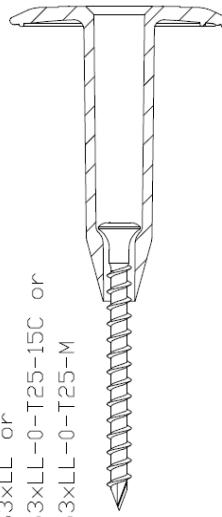
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

TLK-45xLL or EPT-45xLL-PP



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

HTLK-45xLL or EPT-0-45xLL-PP

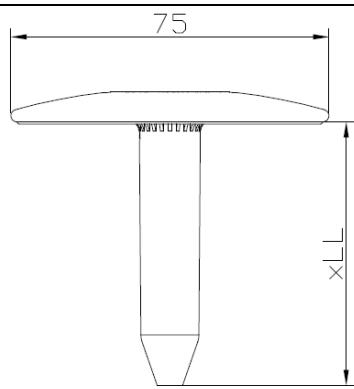
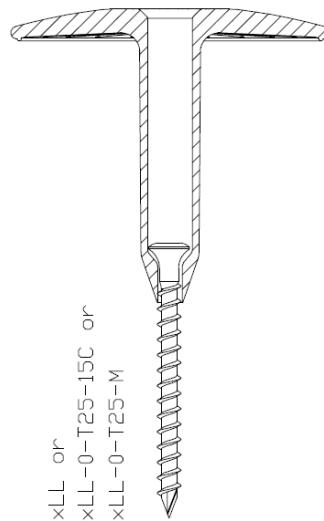


Eurofast Flat Roof Fasteners

Annex N.7

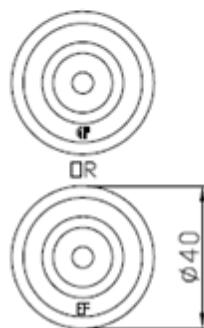
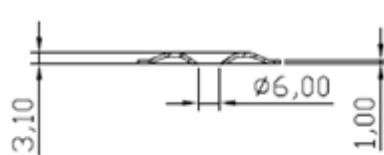
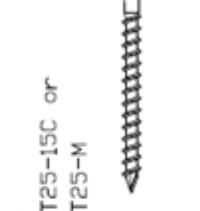
EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

TLK-75xLL or EPT-75xLL-PP



EUROFAST
TLKΦ75

DVP-EF-4010N or EPM-40N-6,0-1,0

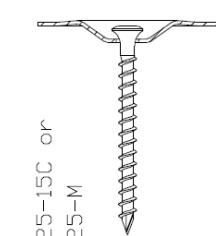


Eurofast Flat Roof Fasteners

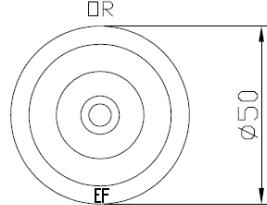
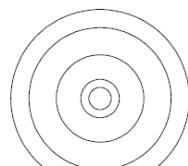
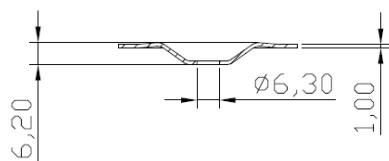
Annex N.8

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

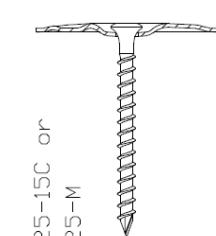
DVP-EF-5010D or EPM-50D-6.3-1.0



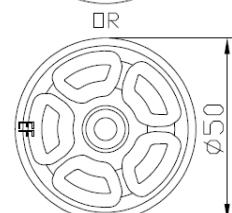
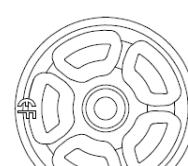
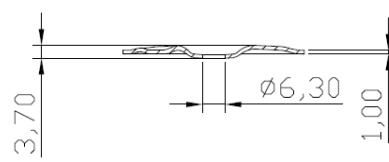
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-EF-5010N or EPM-50N-6.3-1.0



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

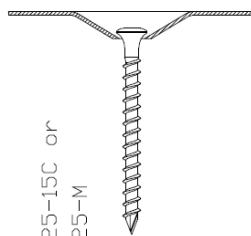


Eurofast Flat Roof Fasteners

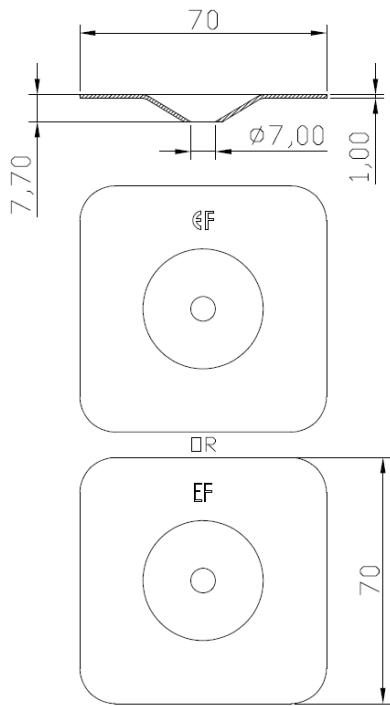
Annex N.9

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

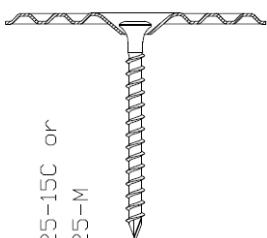
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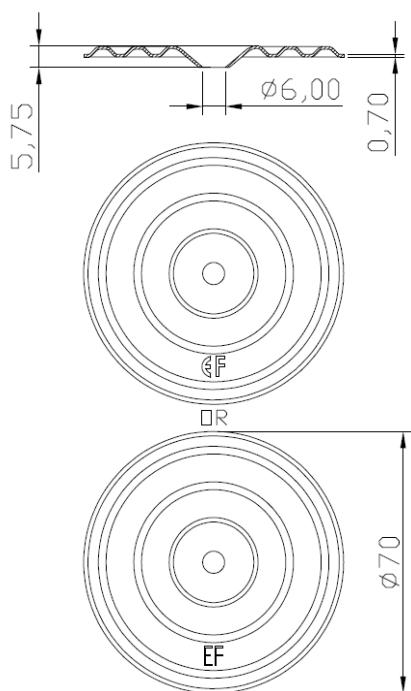
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-EF-7007D or EPM-70D-6.0-0,7



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

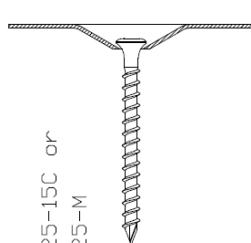


Eurofast Flat Roof Fasteners

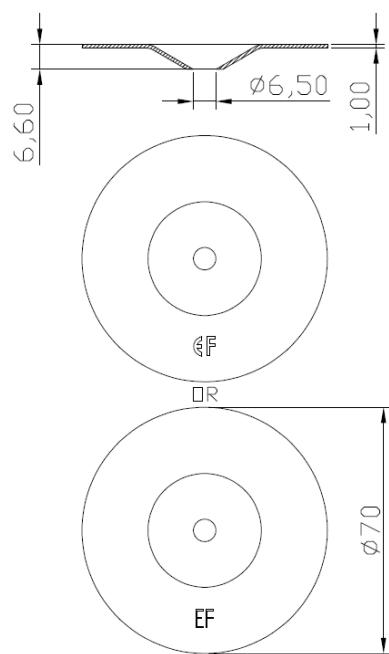
Annex N.10

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

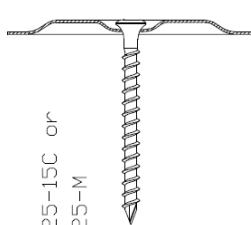
DVP-EF-7010D or EPM-70D-6.5-1.0



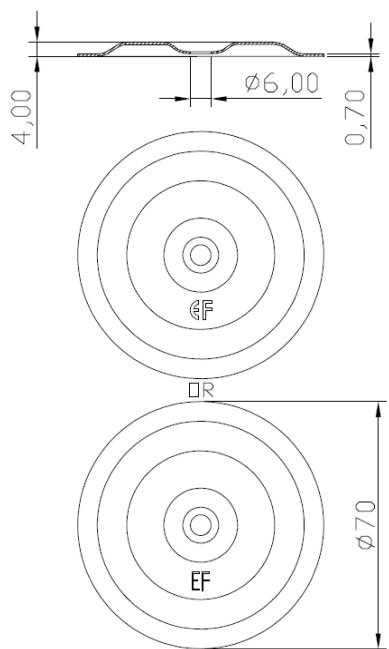
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-EF-7007H or EPM-70H-6.0-0.7



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

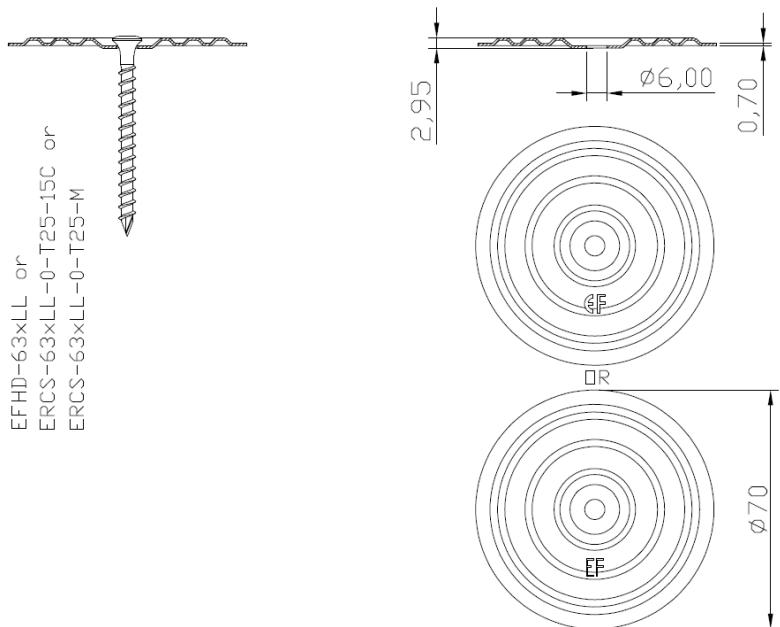


Eurofast Flat Roof Fasteners

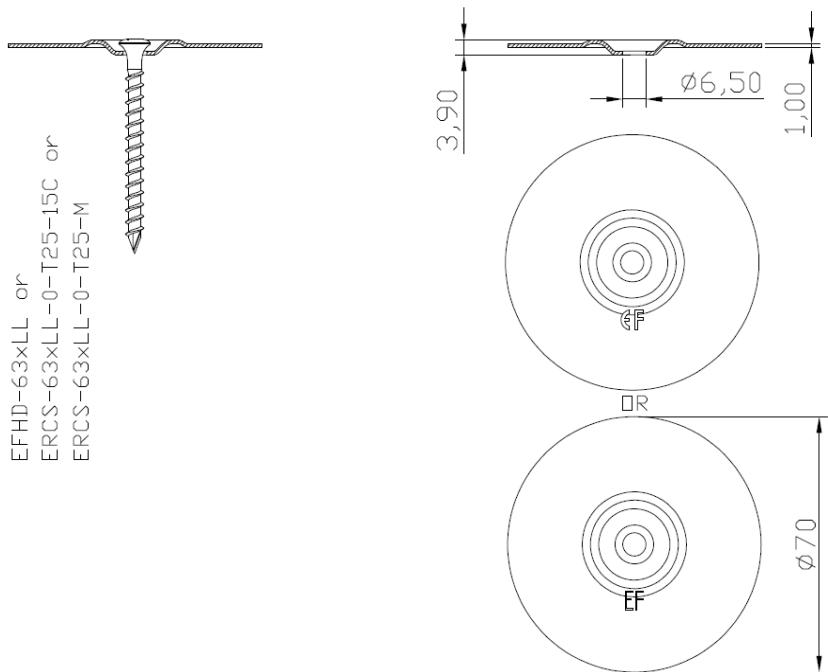
Annex N.11

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

DVP-EF-7007N or EPM-70N-6.0-0.7



DVP-EF-7010N or EPM-70N-6.5-1.0

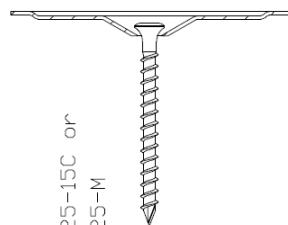


Eurofast Flat Roof Fasteners

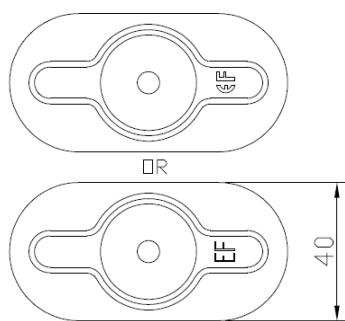
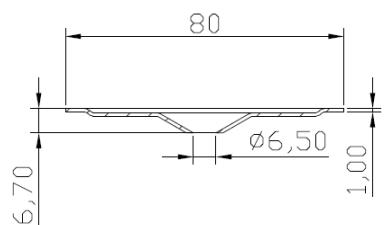
Annex N.12

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

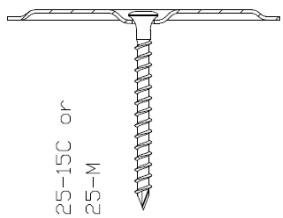
DVP-EF-8040D or EPM-8040D-6.5-1.0



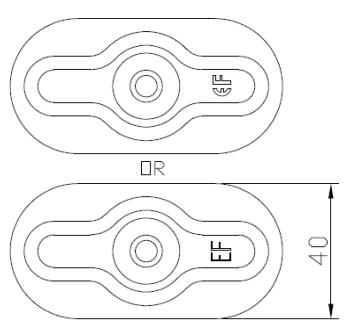
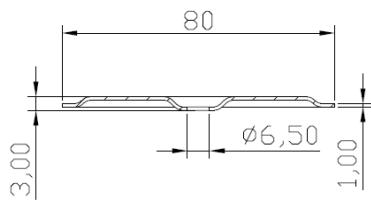
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-EF-8040N or EPM-8040N-6.5-1.0



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

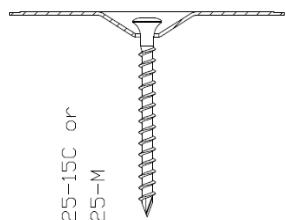


Eurofast Flat Roof Fasteners

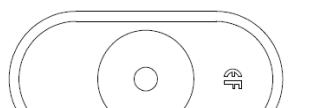
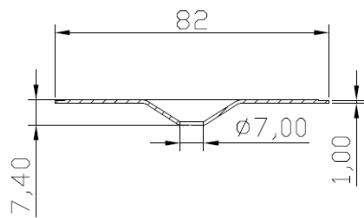
Annex N.13

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

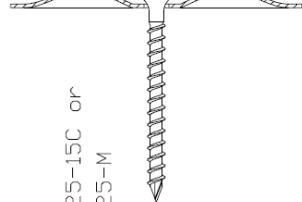
DVP-DF-8240D or EPM-8240D-7.00-1.0



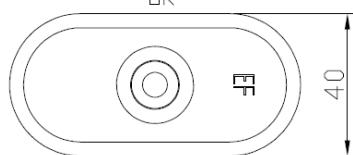
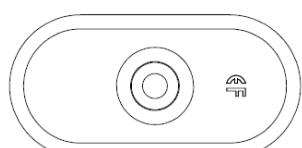
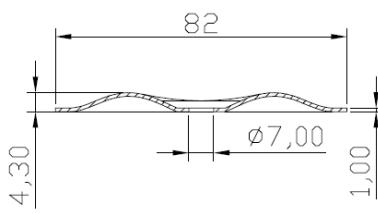
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-DF-8240H or EPM-8240H-7.0-1.0



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

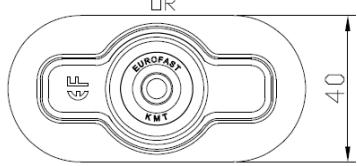
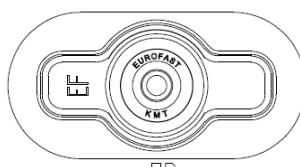
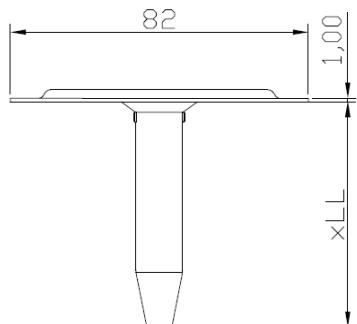
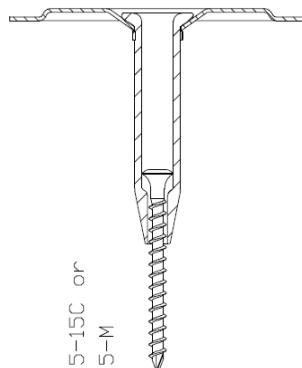


Eurofast Flat Roof Fasteners

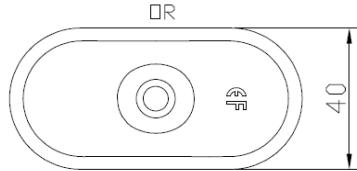
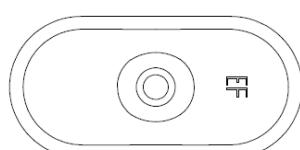
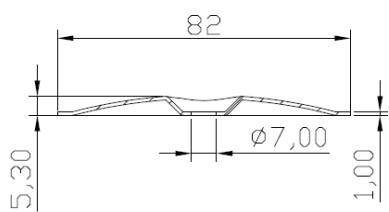
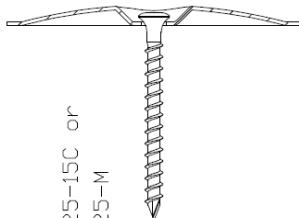
Annex N.14

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA



DVP-DF-8240XH or EPM-8240XH-7.0-1.0

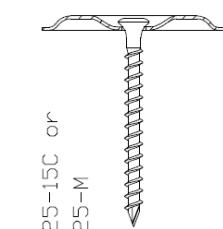


Eurofast Flat Roof Fasteners

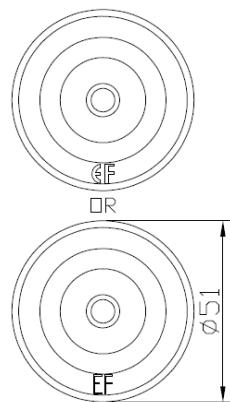
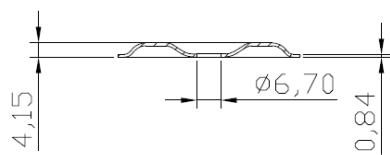
Annex N.15

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

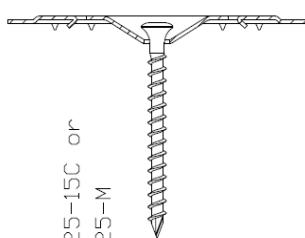
DVP-EF-51N or EPM-51N-6,7-0,84



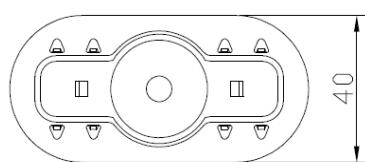
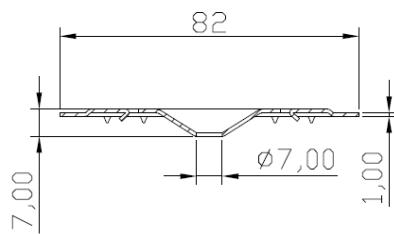
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

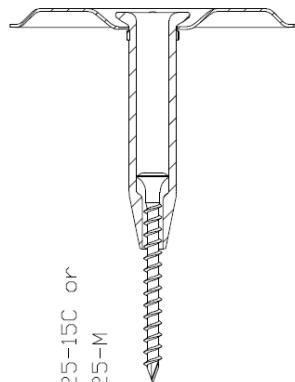


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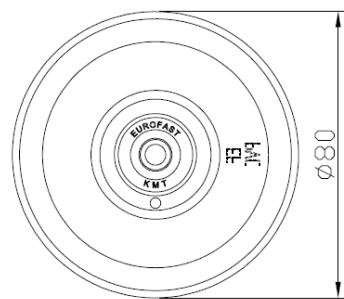
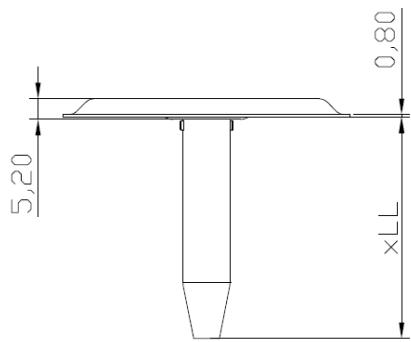
Annex N.16

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

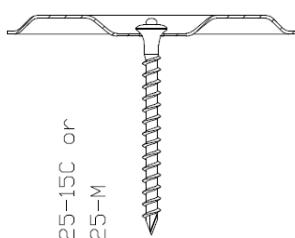
EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



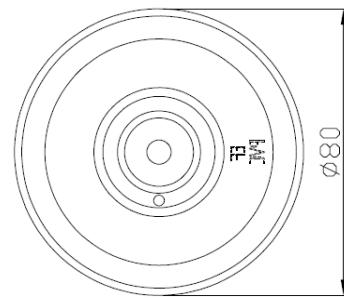
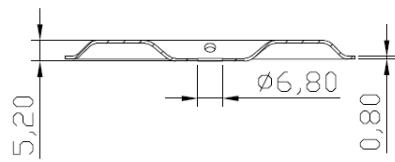
EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



EPM-IP-80-6,8-0,8



EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

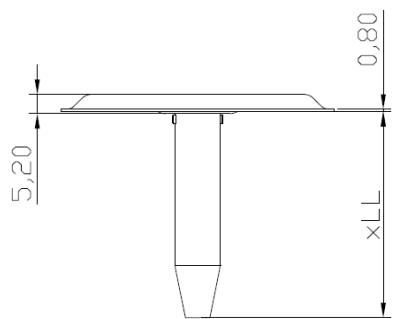
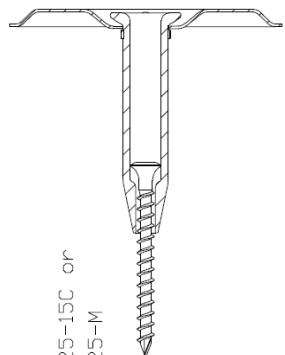


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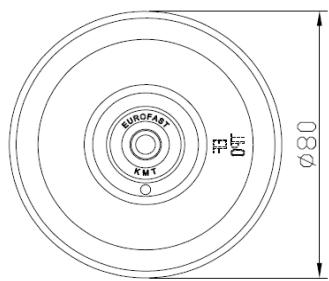
Annex N.17

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA

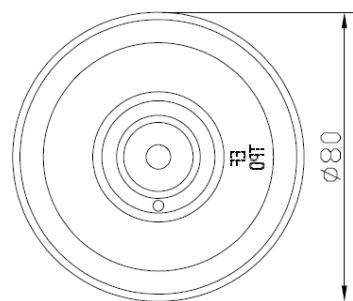
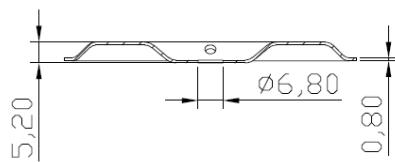


EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M



EPM-IT-80-6,8-0,8

EFHD-63xLL or
ERCS-63xLL-0-T25-15C or
ERCS-63xLL-0-T25-M

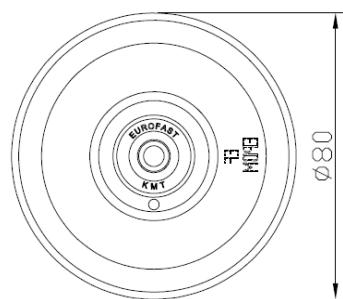
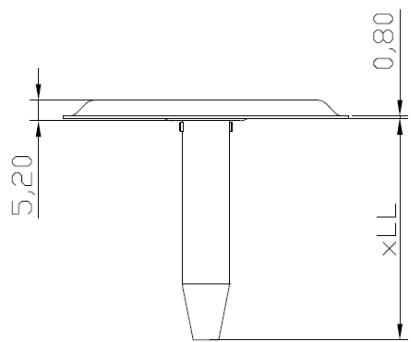
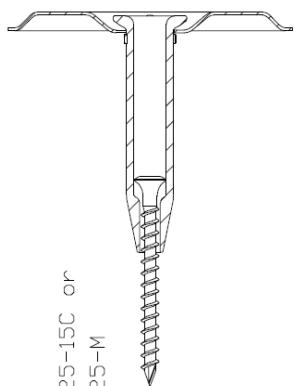


Eurofast Flat Roof Fasteners

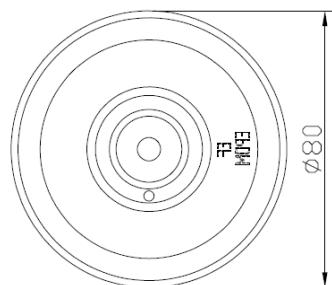
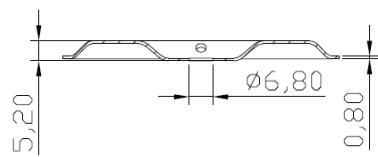
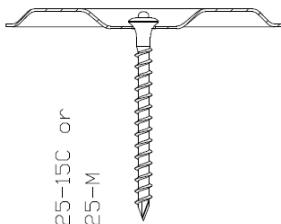
Annex N.18

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



EPM-IE-80-6,8-0,8

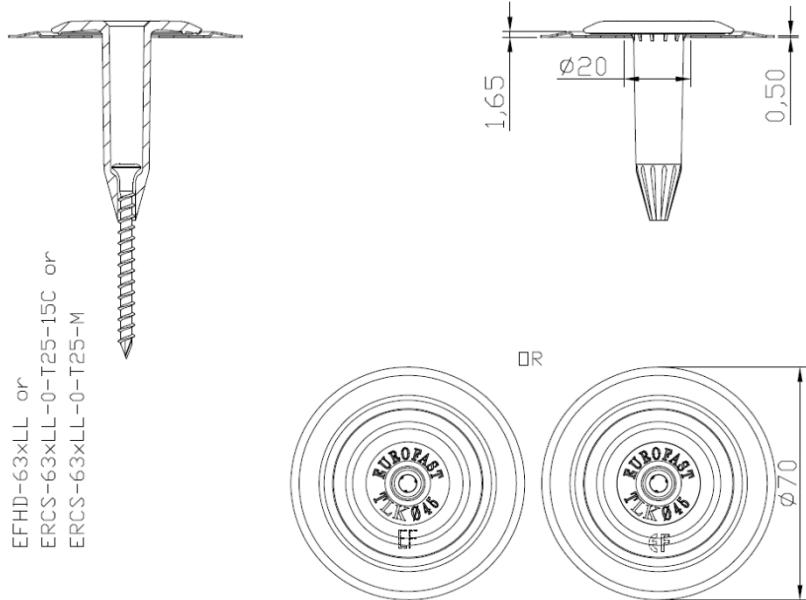


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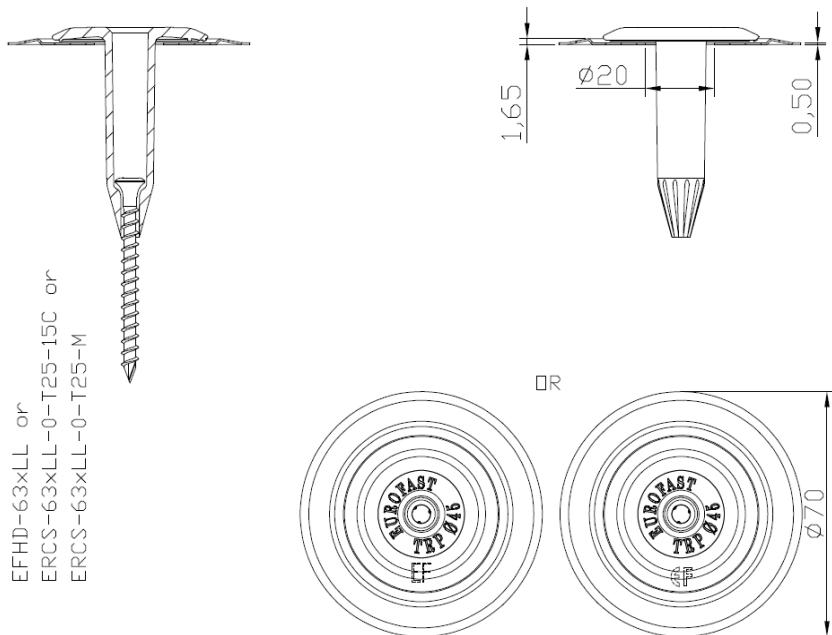
Annex N.19

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)

DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



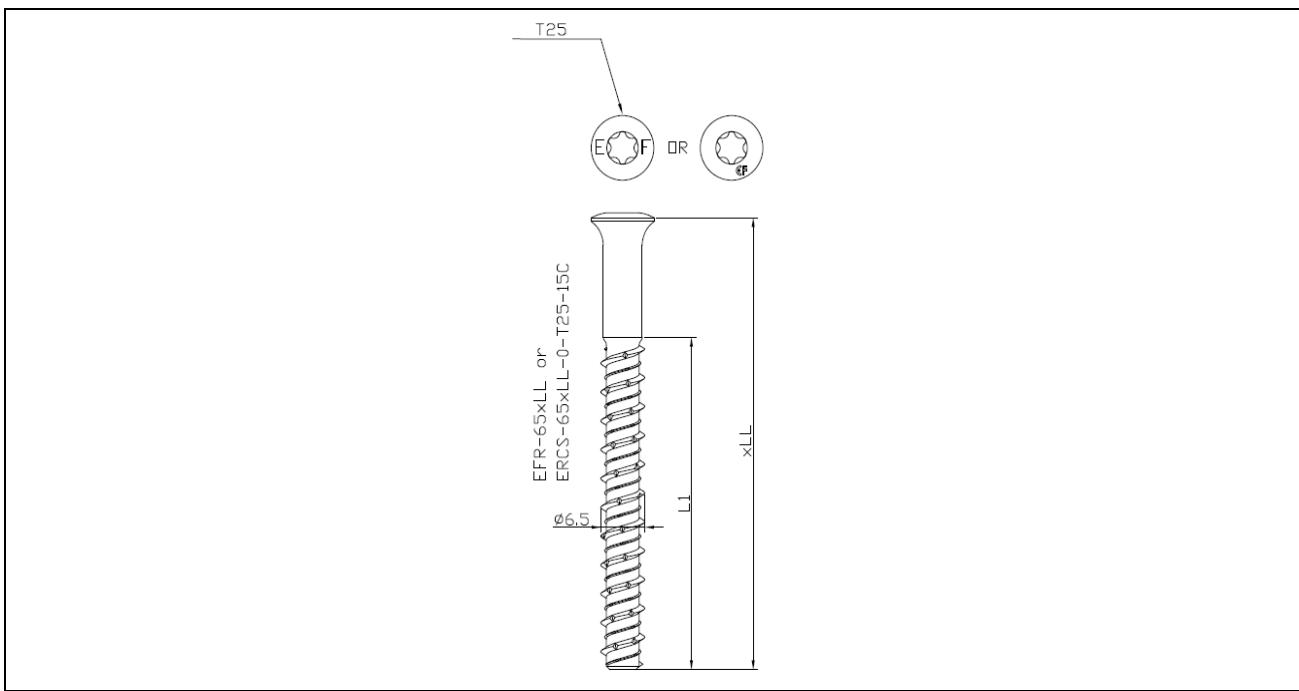
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



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Annex N.20

EFHD-63xLL (ERCS-63xLL-0-T25-15C or ERCS-63xLL-0-T25-M)



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)				
	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,2 mm)*	Concrete C20/25 (drill 5,5 mm)**	Concrete C25/30 (drill 5,5 mm)**
EFR-65xLL (ERCS-65xLL-0-T25-15C)	3,91	5,05	4,04	4,42

* value also valid for holes drilled with 5,0 mm drills

** value also valid for holes drilled with 5,2 mm or 5,0 mm drills

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)		
	DVP-EF-51N (EPM-51N-6.7-0.84)	EPM-IP-80-6.8-0.8
	-	EPM-IT-80-6.8-0.8
	-	EPM-IE-80-6.8-0.8
EFR-65xLL (ERCS-65xLL-0-T25-15C)	2,93	2,92

* "Pull-over" according to CEN/TS 17659 : 2021

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EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
	TRP-45xLL (EPT-45xLL-PA)	TLK-75xLL (EPT-75xLL-PP)	-
	BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)	-
	TWP-8040xLL (EPT-8040xLL-PA)	-	-
	EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)	-	-
	DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)	-	-
	EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)	-	-
	DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)	-	-
EFR-65xLL (ERCS-65xLL-0-T25-15C)	2,64	1,68	1,78

* "Pull-over" according to CEN/TS 17659 : 2021

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)					
	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-4010N (EPM-40N-6.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-DF-7070D (EPM-7070D-7.0-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)
	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	DVP-EF-5010N (EPM-50N-6.3-1.0)	DVP-DF-8240D (EPM-8240D-7.0-1.0)	DVP-EF-7007H (EPM-70H-6.0-0.7)
	DVP-EF-7010N (EPM-70N-6.5-1.0)	-	-	DVP-DF-8240H (EPM-8240H-7.0-1.0)	DVP-EF-7007N (EPM-70N-6.0-0.7)
	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)	-
	DVP-EF-8040N (EPM-8040N-6.5-1.0)	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)	-
EFR-65xLL (ERCS-65xLL-0-T25-15C)	5,05	4,43	3,89	2,96	2,91

* "Pull-over" according to CEN/TS 17659 : 2021

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Annex O.2

EFR-65xLL (ERCS-65xLL-0-T25-15C)

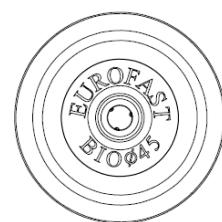
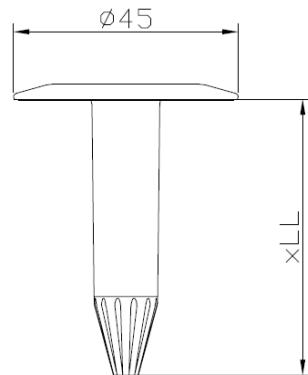
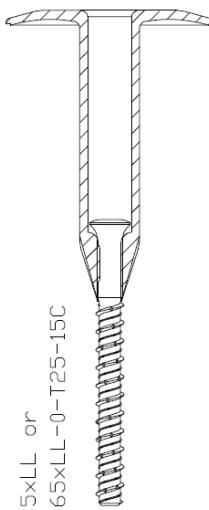
Screw:	EFR-65xLL (ERCS-65xLL-0-T25-15C)		
Metal pressure plate:			
DVP-EF-4010N	(EPM-40N-6.0-1.0)	DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)
DVP-EF-5010D	(EPM-50D-6.3-1.0)	DVP-EF-51N	(EPM-51N-6.7-0.84)
DVP-EF-5010N	(EPM-50N-6.3-1.0)	DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	EPM-IP-80-6.8-0.8	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	EPM-IT-80-6.8-0.8	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	EPM-IE-80-6.8-0.8	
DVP-EF-7007H	(EPM-70H-6.0-0.7)	DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
DVP-EF-7007N	(EPM-70N-6.0-0.7)	EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-7010N	(EPM-70N-6.5-1.0)	EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-EF-8040N	(EPM-8040N-6.5-1.0)	DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
DVP-DF-8240H	(EPM-8240H-7.0-1.0)		
Pressure plate with tube:			
BIO-45xLL	(EPT-45xLL-BIO)	EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)
TRP-45xLL	(EPT-45xLL-PA)	EDF-BAR F-TUBE + KMT-15xLL	(ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)		
TWP-8040xLL	(EPT-8040xLL-PA)		
TLK-45xLL	(EPT-45xLL-PP)		
HTLK-45xLL	(EPT-O-45xLL-PP)		
TLK-75xLL	(EPT-75xLL-PP)		
Substrate:			
Concrete	C12/15, C20/25, C25/30	EN 206	
Installation data:			
HUKAD type:	Raised Bugle HUKAD		
Recess:	TX25		
Effective anchoring depth h_{ef} :	≥ 25 mm		
Drill diameter in concrete C12/15:	5,0 mm		
Drill diameter in concrete C20/25:	5,2 or 5,5 mm		
Drill diameter in concrete C25/30:	5,5 mm		
Drilled hole depth:	$h_{ef} + 10$ mm		
Installation force of installation tool:	15 kg + impact		
Installation tool speed:	100 rpm		

Eurofast Flat Roof Fasteners

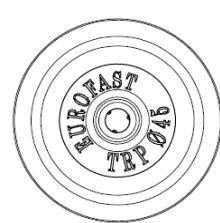
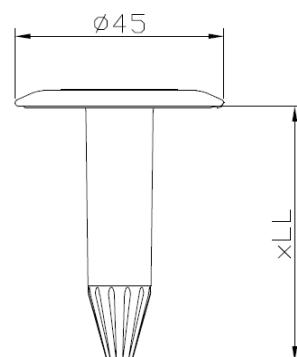
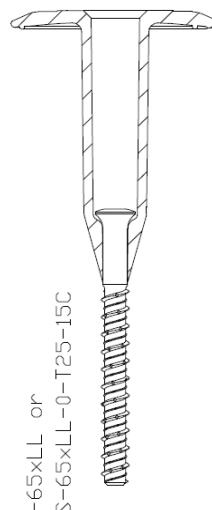
Annex O.3

EFR-65xLL (ERCS-65xLL-0-T25-15C)

BIO-45xLL or EPT-45xLL-BIO



TRP-45xLL or EPT-45xLL-PA

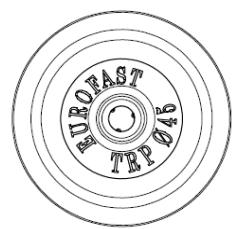
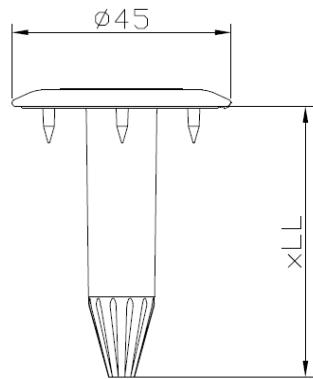
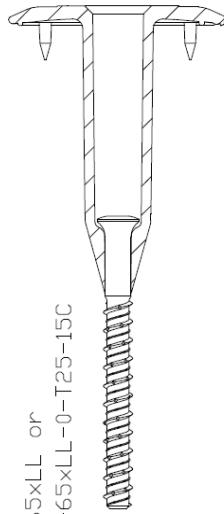


Eurofast Flat Roof Fasteners

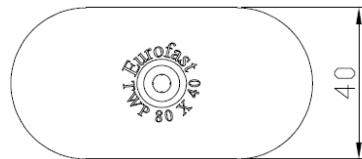
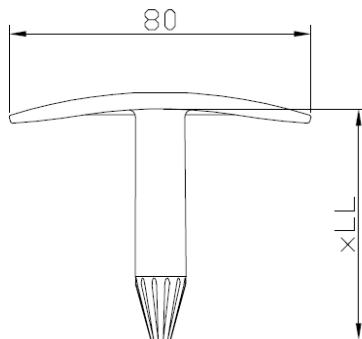
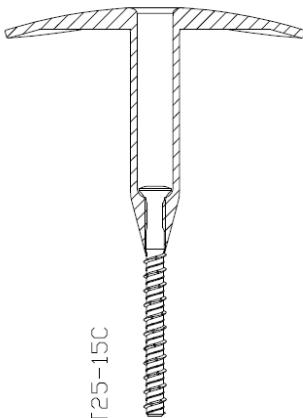
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.4

BTRP-45xLL or EPT-B-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

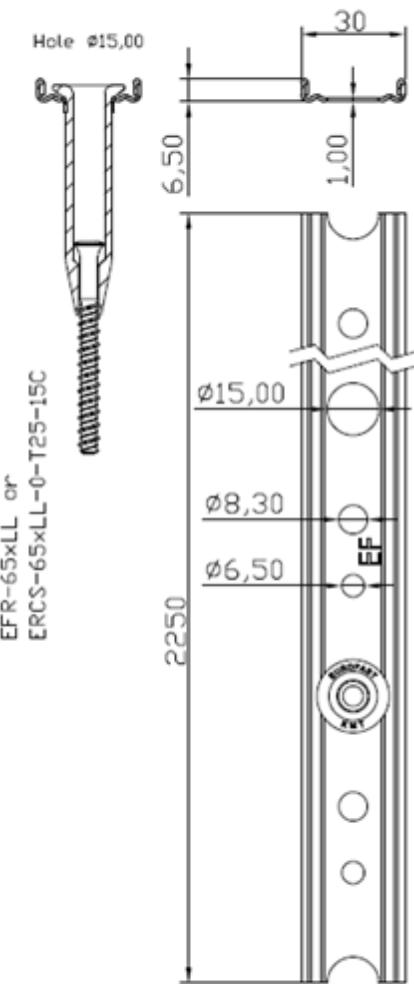


Eurofast Flat Roof Fasteners

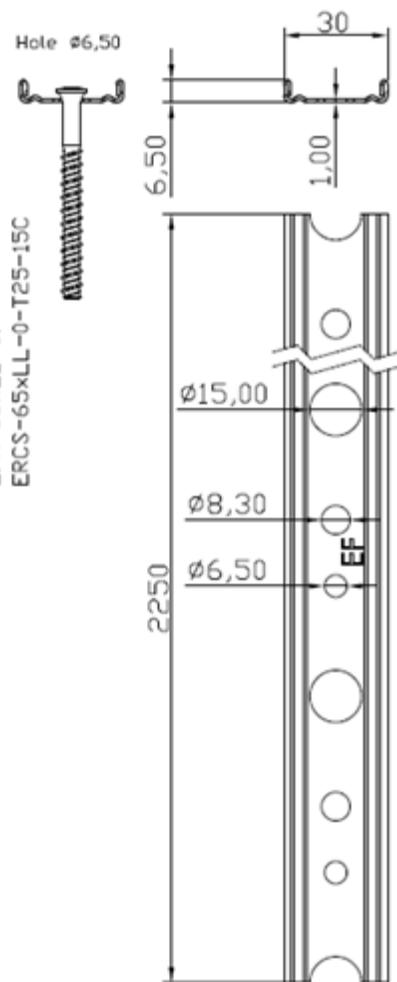
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.5

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

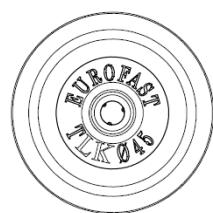
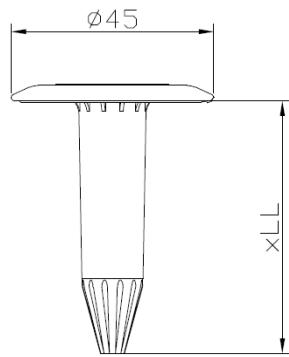
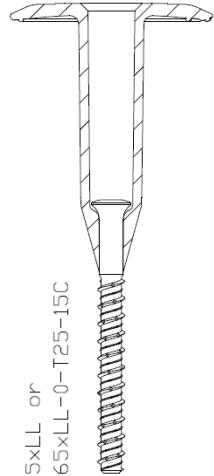


Eurofast Flat Roof Fasteners

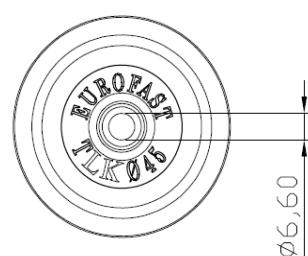
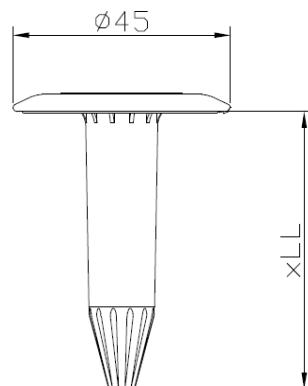
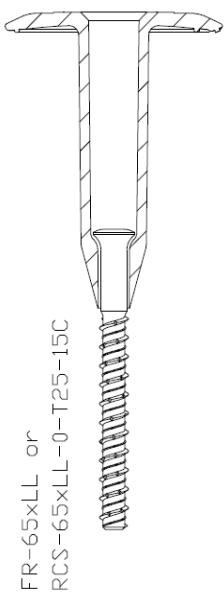
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.6

TLK-45xLL or EPT-45xLL-PP



HTLK-45xLL or EPT-Ø-45xLL-PP

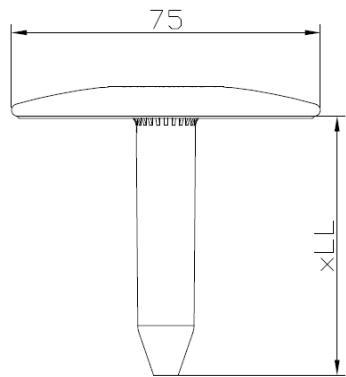
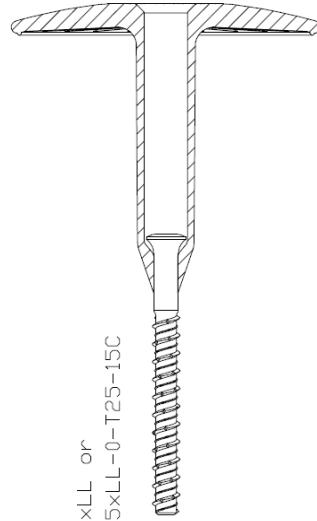


Eurofast Flat Roof Fasteners

EFR-65xLL (ERCS-65xLL-0-T25-15C)

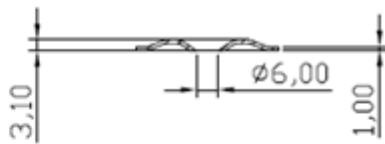
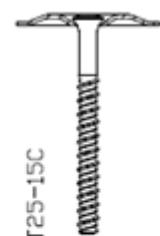
Annex O.7

TLK-75xLL or EPT-75xLL-PP

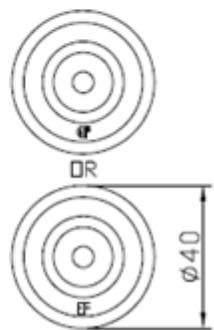


EUROFAST
TLKΦ75

DVP-EF-4010N or EPM-40N-6,0-1,0



EFR-65xLL or
ERCS-65xLL-0-T25-15C

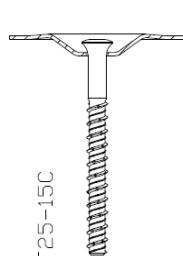


Eurofast Flat Roof Fasteners

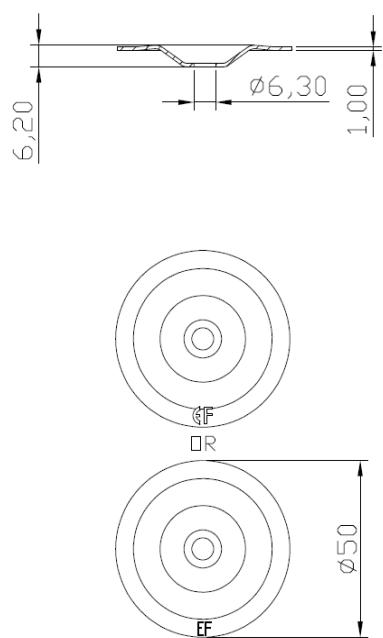
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.8

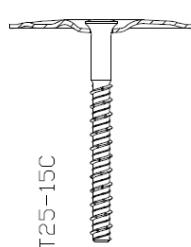
DVP-EF-5010D or EPM-50D-6,3-1,0



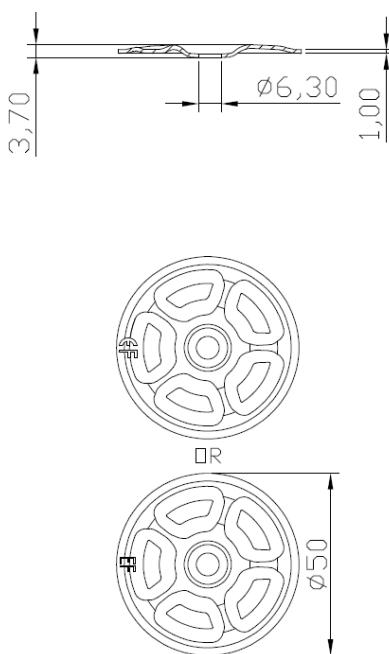
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-EF-5010N or EPM-50N-6,3-1,0



EFR-65xLL or
ERCS-65xLL-0-T25-15C

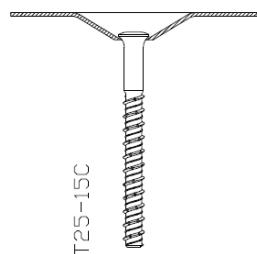


Eurofast Flat Roof Fasteners

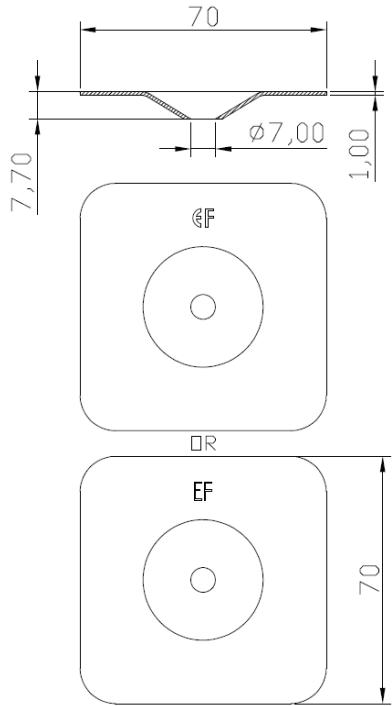
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.9

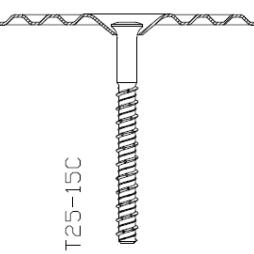
DVP-DF-7070D or EPM-7070D-7.0-1.0



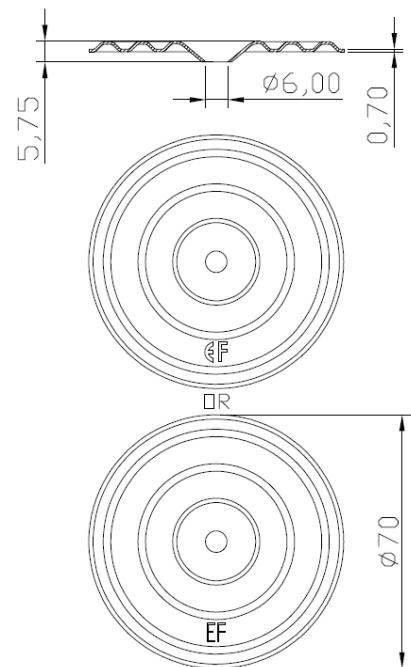
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-EF-7007D or EPM-70D-6,0-0,7



EFR-65xLL or
ERCS-65xLL-0-T25-15C

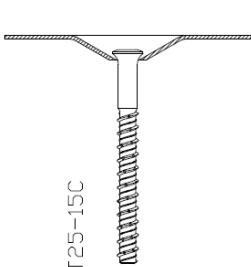


Eurofast Flat Roof Fasteners

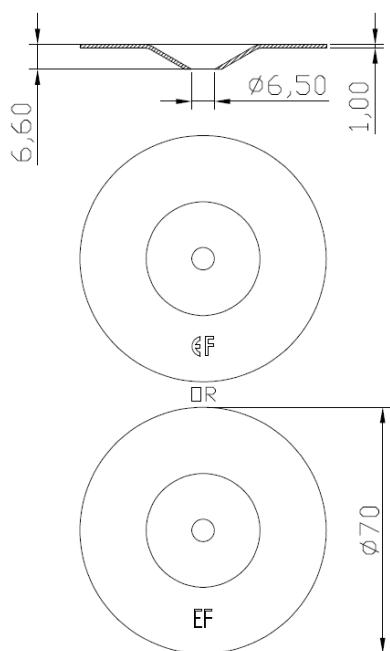
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.10

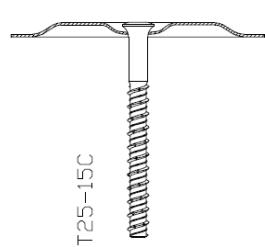
DVP-EF-7010D or EPM-70D-6,5-1,0



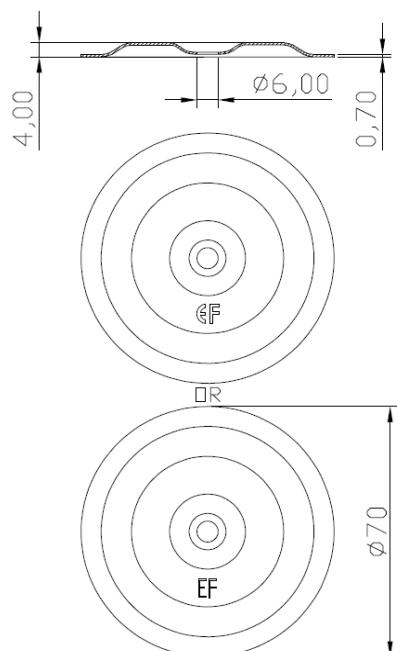
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-EF-7007H or EPM-70H-6,0-0,7



EFR-65xLL or
ERCS-65xLL-0-T25-15C

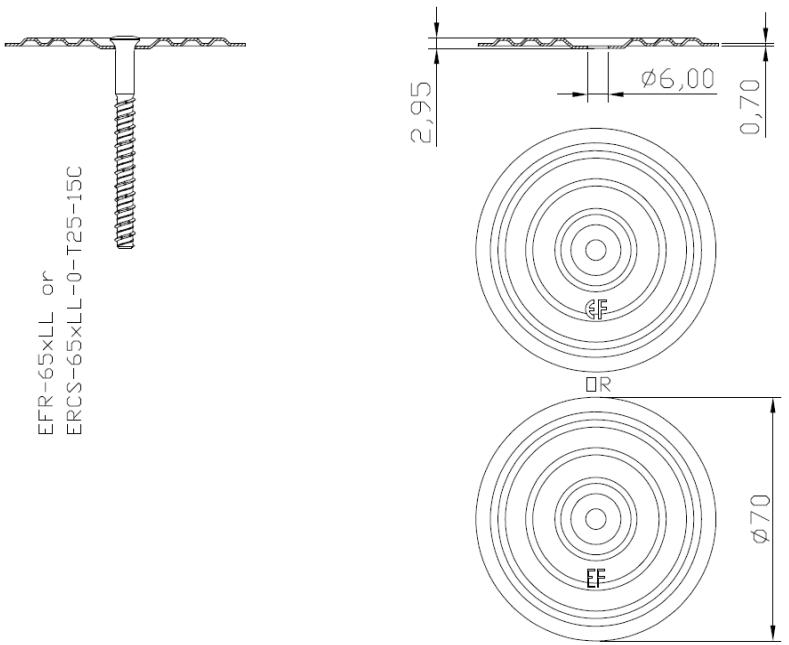


Eurofast Flat Roof Fasteners

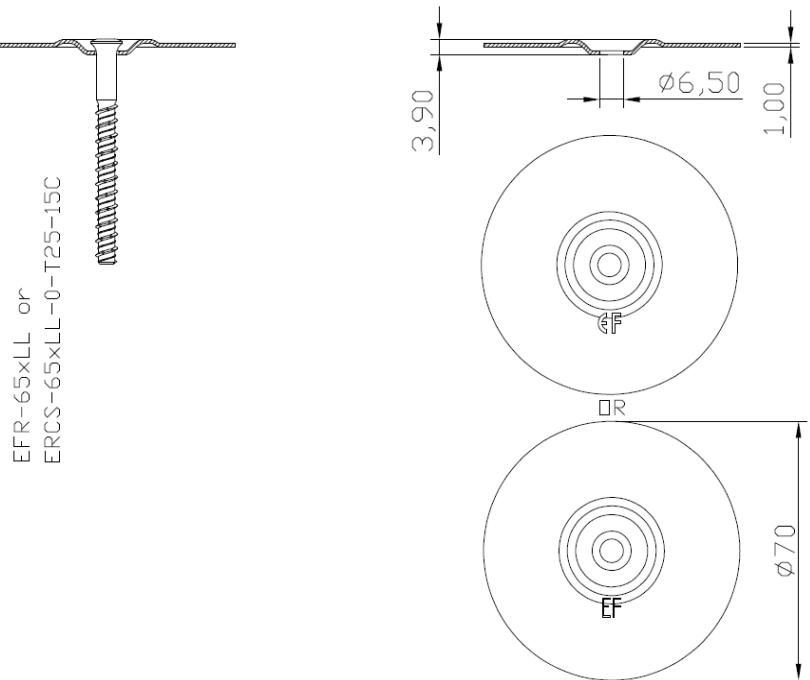
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.11

DVP-EF-7007N or EPM-70N-6.0-0.7



DVP-EF-7010N or EPM-70N-6.5-1.0

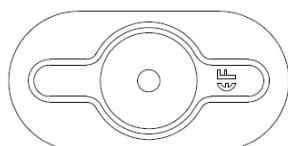
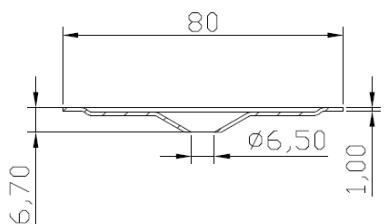
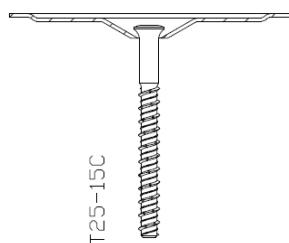


Eurofast Flat Roof Fasteners

EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.12

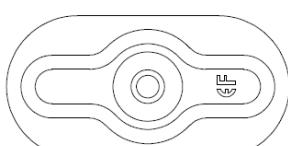
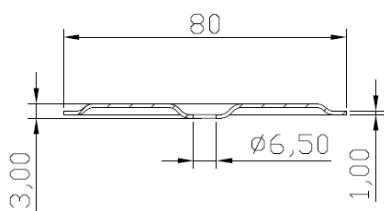
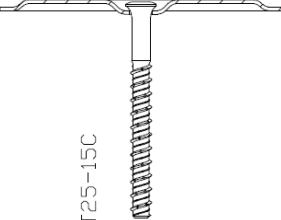
DVP-EF-8040D or EPM-8040D-6.5-1.0



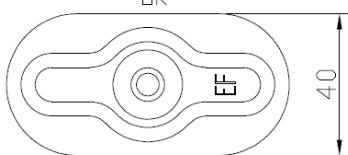
□R



DVP-EF-8040N or EPM-8040N-6.5-1.0



□R

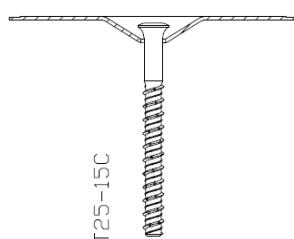


Eurofast Flat Roof Fasteners

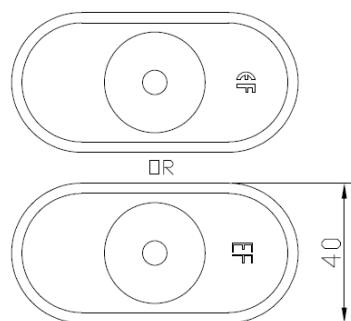
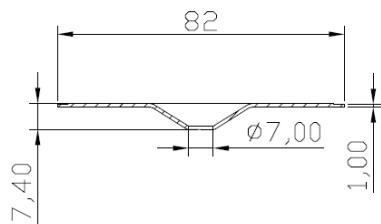
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.13

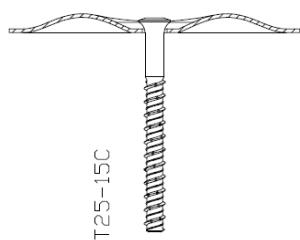
DVP-DF-8240D or EPM-8240D-7.00-1.0



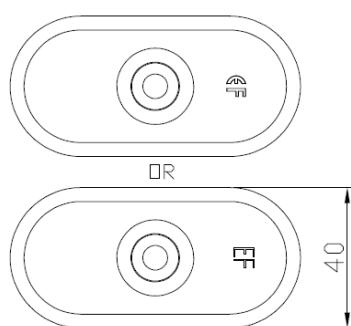
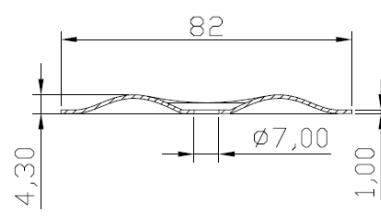
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-DF-8240H or EPM-8240H-7.0-1.0



EFR-65xLL or
ERCS-65xLL-0-T25-15C

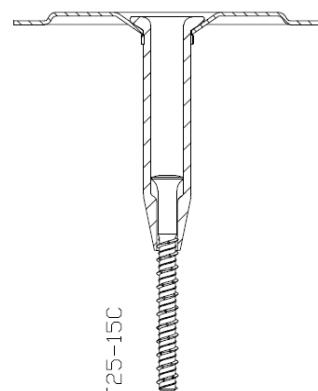


Eurofast Flat Roof Fasteners

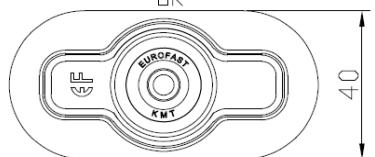
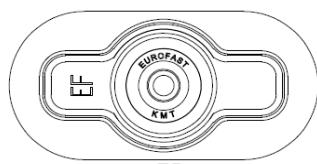
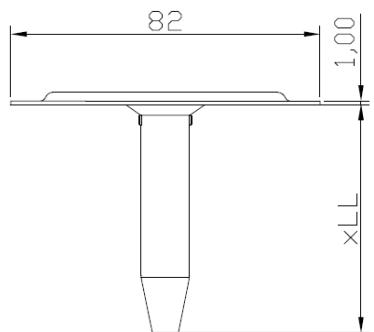
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.14

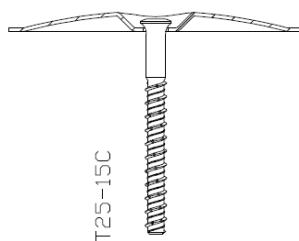
DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA



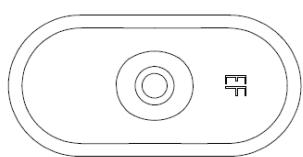
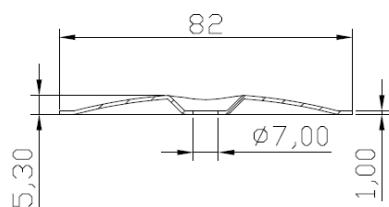
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-DF-8240XH or EPM-8240XH-7.0-1.0



EFR-65xLL or
ERCS-65xLL-0-T25-15C

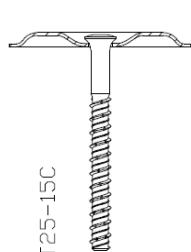


Eurofast Flat Roof Fasteners

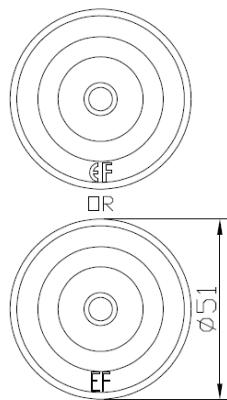
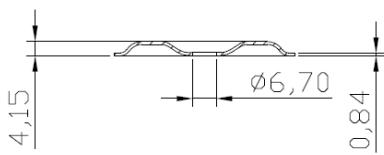
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.15

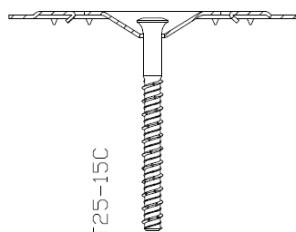
DVP-EF-51N or EPM-51N-6,7-0,84



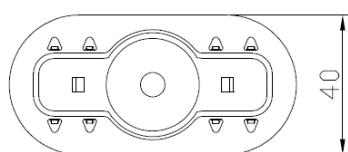
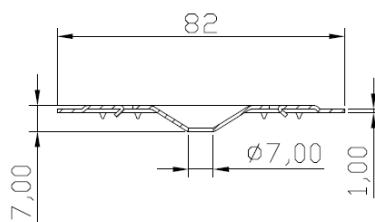
EFR-65xLL or
ERCS-65xLL-0-T25-15C



DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



EFR-65xLL or
ERCS-65xLL-0-T25-15C

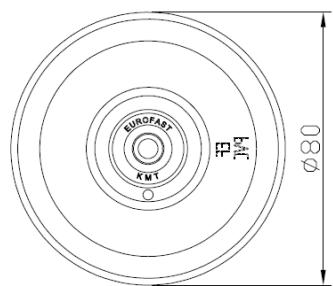
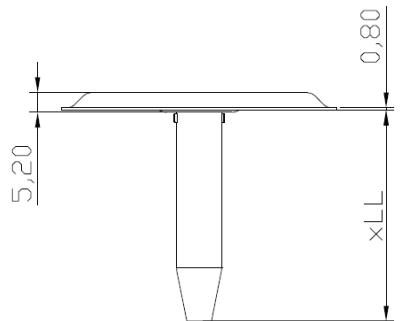
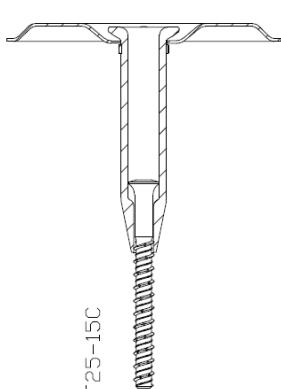


Eurofast Flat Roof Fasteners

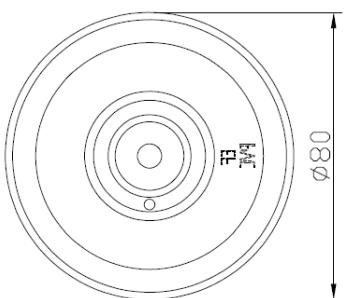
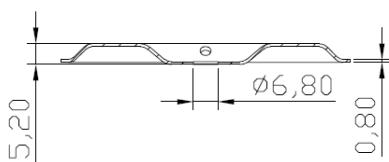
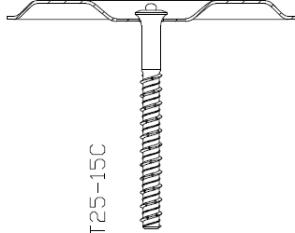
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.16

EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



EPM-IP-80-6,8-0,8

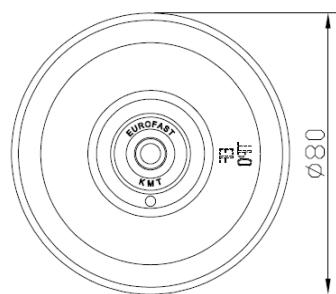
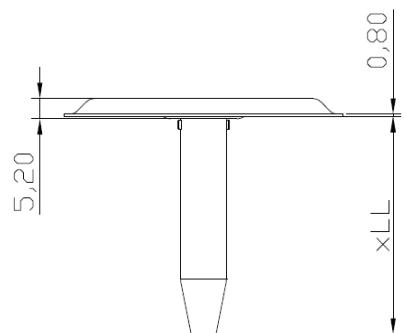
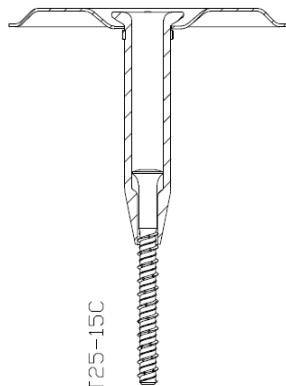


Eurofast Flat Roof Fasteners

EFR-65xLL (ERCS-65xLL-0-T25-15C)

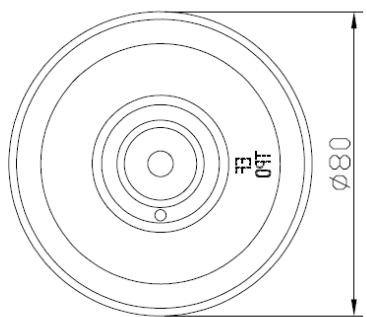
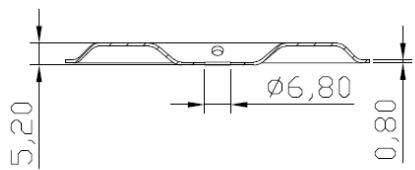
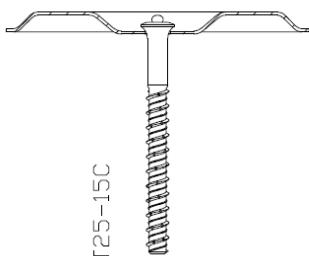
Annex O.17

EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



EPM-IT-80-6,8-0,8

EFR-65xLL or
ERCS-65xLL-0-T25-15C

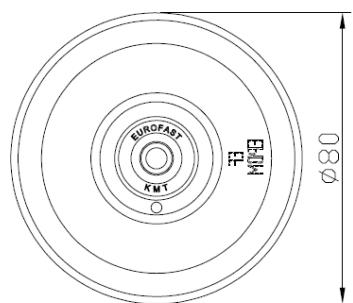
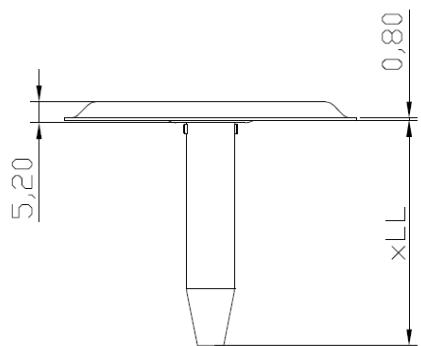
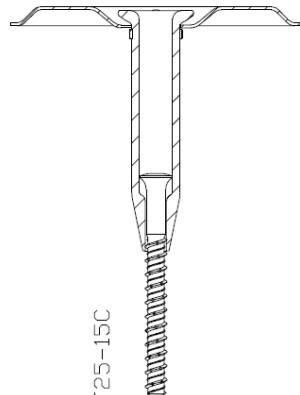


Eurofast Flat Roof Fasteners

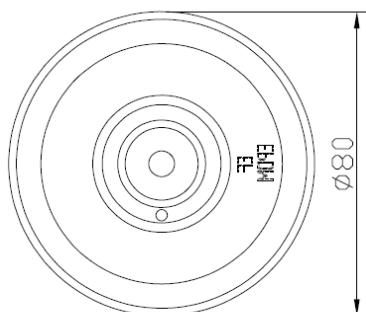
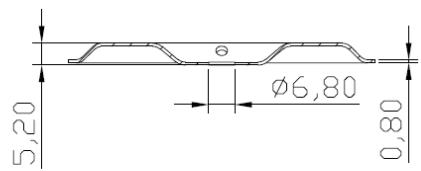
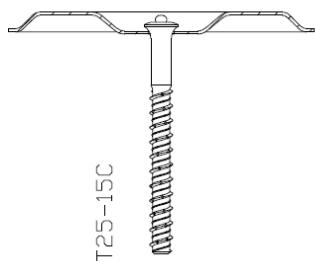
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.18

EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



EPM-IE-80-6,8-0,8

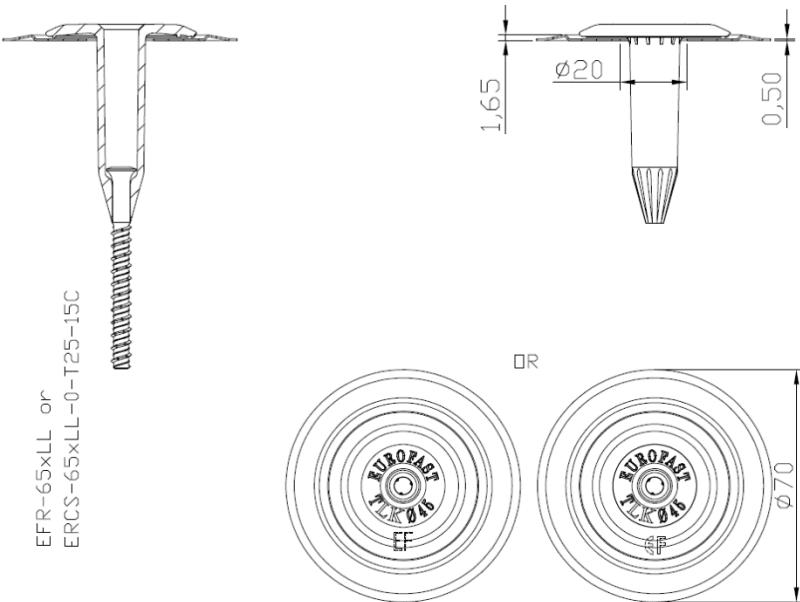


Eurofast Flat Roof Fasteners

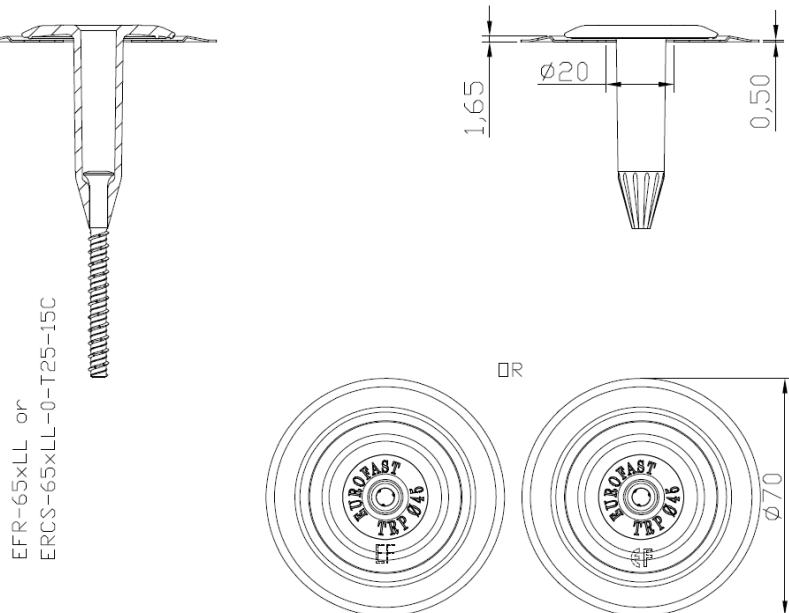
EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.19

DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0.5 + EPT-45xLL-PP



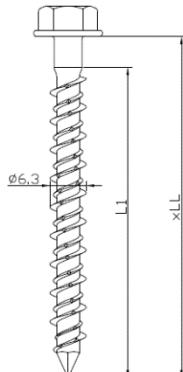
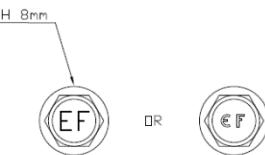
DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0.5 + EPT-45xLL-PA



Eurofast Flat Roof Fasteners

EFR-65xLL (ERCS-65xLL-0-T25-15C)

Annex O.20



DFCF-63xLL
ERCS-63xLL-0-HWH-15C

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)

	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,2 mm)*	Concrete C20/25 (drill 5,5 mm)**	Concrete C25/30 (drill 5,5 mm)**
DFCF-63xLL (ERCS-63xLL-0-HWH-15C)	3,76	4,85	3,67	4,02

* value also valid for holes drilled with 5,0 mm drills

** value also valid for holes drilled with 5,2 mm or 5,0 mm drills

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)

EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)	DVP-EF-5010D (EPM-50D-6.3-1.0)	DVP-EF-7007D (EPM-70D-6.0-0.7)	DVP-DF-7070D (EPM-7070D-7.0-1.0)
EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	DVP-EF-7010D (EPM-70D-6.5-1.0)	-	-	DVP-DF-8240D (EPM-8240D-7.0-1.0)
-	DVP-EF-8040D (EPM-8040D-6.5-1.0)	-	-	DVP-DF-8240XH (EPM-8240XH-7.0-1.0)
-	-	-	-	DVP-DFB-8240D (EPM-B-8240D-7.0-1.0)
DFCF-63xLL (ERCS-63xLL-0-HWH-15C)	5,12	5,05	6,86	5,36

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

Annex P.1

DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

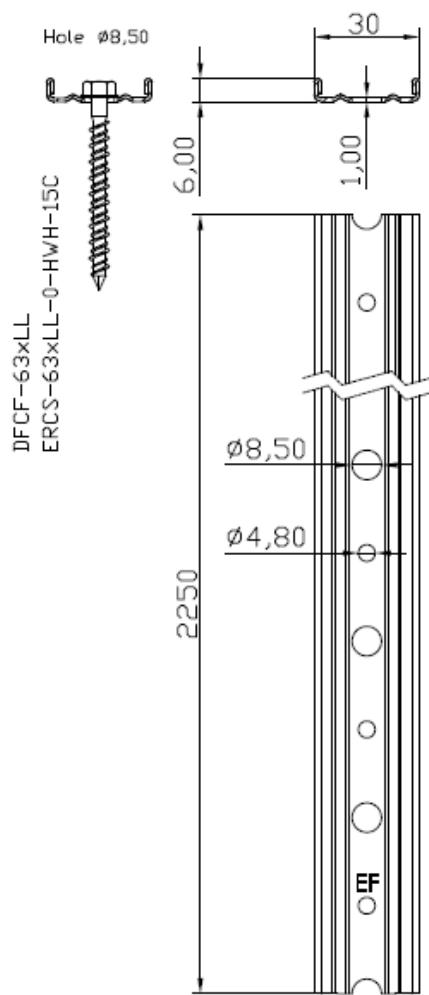
Screw:	DFCF-63xLL	(ERCS-63xLL-0-HWH-15C)
Metal pressure plate:		
DVP-EF-5010D	(EPM-50D-6.3-1.0)	
DVP-DF-7070D	(EPM-7070D-7.0-1.0)	
DVP-EF-7007D	(EPM-70D-6.0-0.7)	
DVP-EF-7010D	(EPM-70D-6.5-1.0)	
DVP-EF-8040D	(EPM-8040D-6.5-1.0)	
DVP-DF-8240D	(EPM-8240D-7.0-1.0)	
DVP-DF-8240XH	(EPM-8240XH-7.0-1.0)	
DVP-DFB-8240D	(EPM-B-8240D-7.0-1.0)	
Termination bar:		
EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)	
EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)	
EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)	
Substrate:		
Concrete	C12/15, C20/25, C25/30	EN 206
Installation data:		
HUKAD type:	Hex Washer HUKAD 8 mm	
Effective anchoring depth h_{ef} :	≥ 25 mm	
Drill diameter in concrete C12/15:	5,0 mm	
Drill diameter in concrete C20/25:	5,2 or 5,5 mm	
Drill diameter in concrete C25/30:	5,5 mm	
Drilled hole depth:	$h_{ef} + 10$ mm	
Installation force of installation tool:	15 kg + impact	
Installation tool speed:	100 rpm	

Eurofast Flat Roof Fasteners

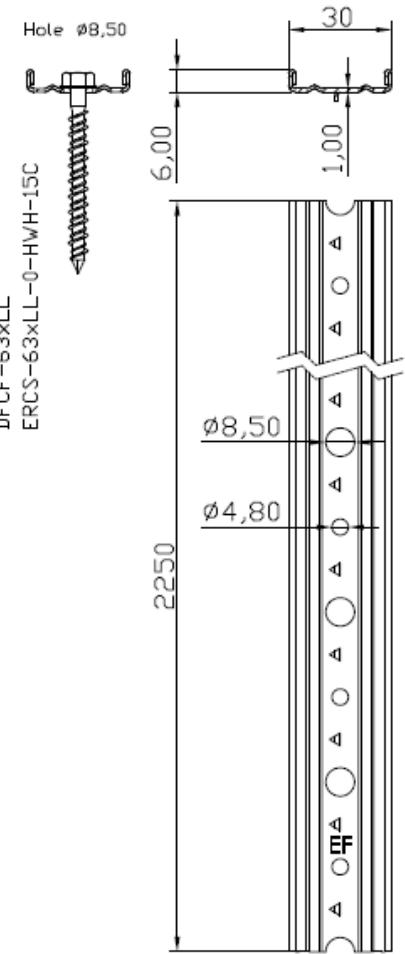
Annex P.2

DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

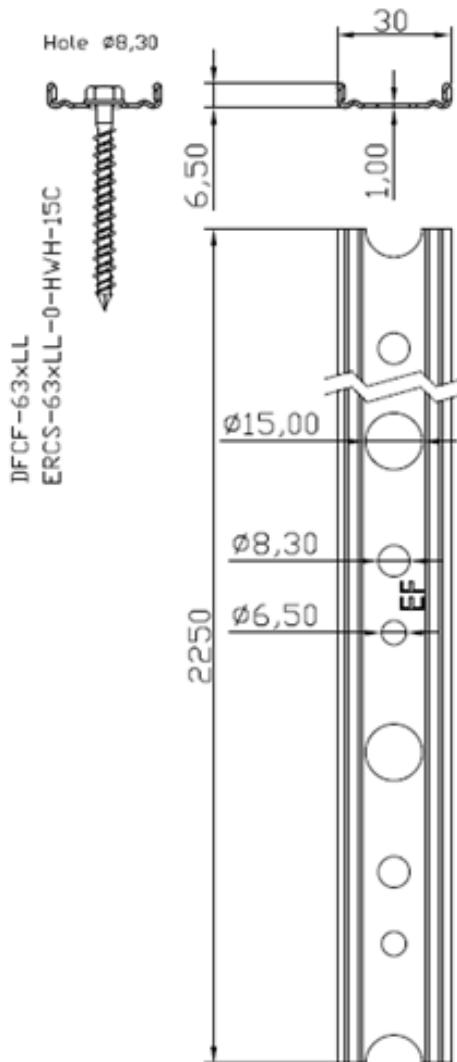


Eurofast Flat Roof Fasteners

DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

Annex P.3

EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0

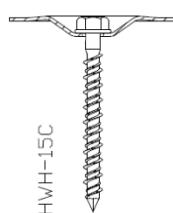


Eurofast Flat Roof Fasteners

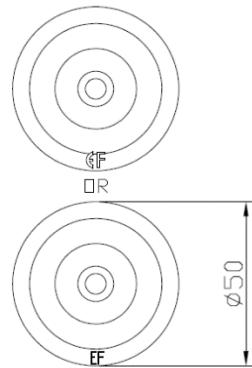
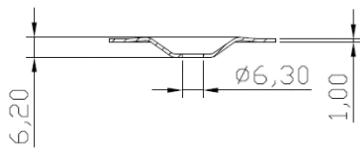
DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

Annex P.4

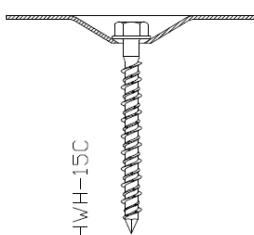
DVP-EF-5010D or EPM-50D-6.3-1.0



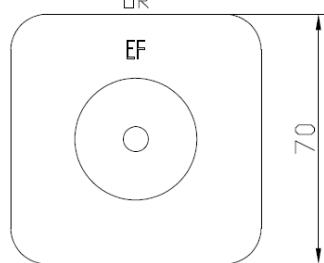
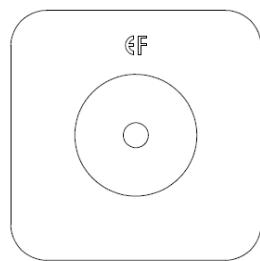
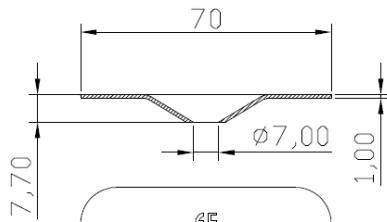
DFCF-63xLL
ERCS-63xLL-0-HWH-15C



DVP-DF-7070D or EPM-7070D-7.0-1.0



DFCF-63xLL
ERCS-63xLL-0-HWH-15C

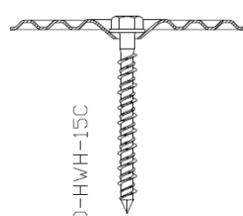


Eurofast Flat Roof Fasteners

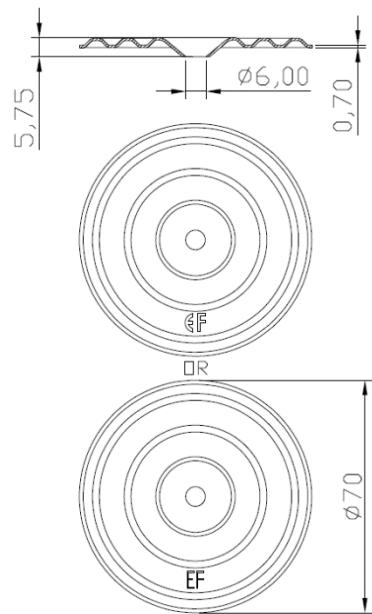
DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

Annex P.5

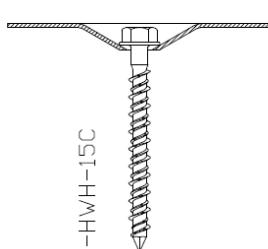
DVP-EF-7007D or EPM-70D-6.0-0.7



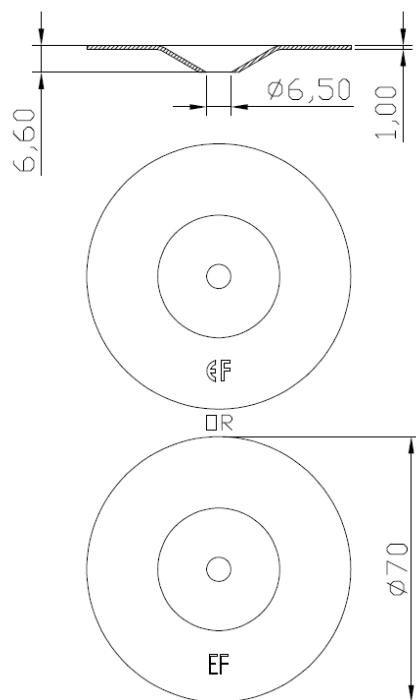
DFCF-63xLL
ERCS-63xLL-0-HWH-15C



DVP-EF-7010D or EPM-70D-6.5-1.0



DFCF-63xLL
ERCS-63xLL-0-HWH-15C

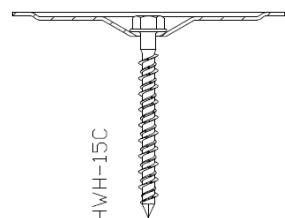


Eurofast Flat Roof Fasteners

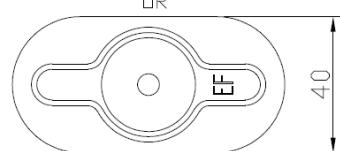
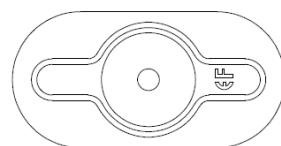
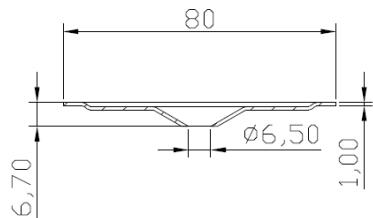
DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

Annex P.6

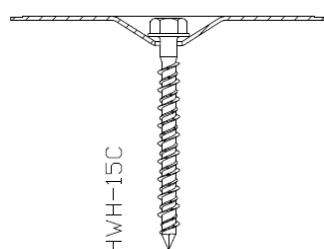
DVP-EF-8040D or EPM-8040D-6.5-1.0



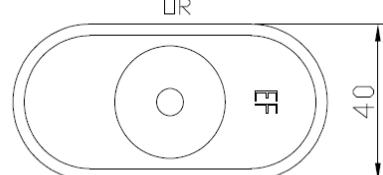
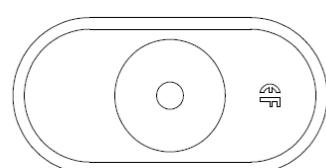
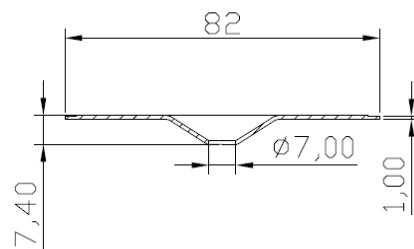
DFCF-63xLL
ERCS-63xLL-0-HWH-15C



DVP-DF-8240D or EPM-8240D-7.00-1.0



DFCF-63xLL
ERCS-63xLL-0-HWH-15C

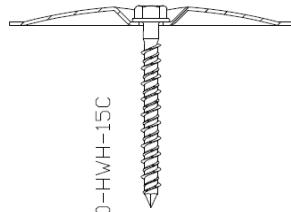


Eurofast Flat Roof Fasteners

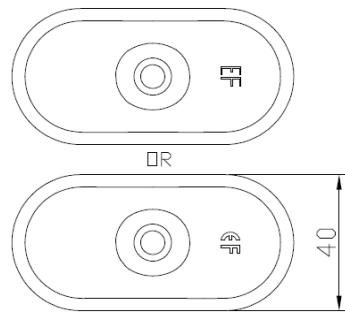
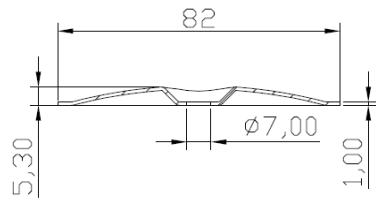
Annex P.7

DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

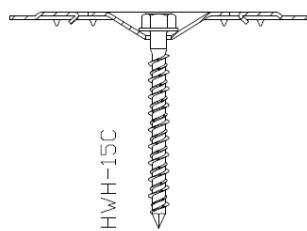
DVP-DF-8240XH or EPM-8240XH-7,0-1,0



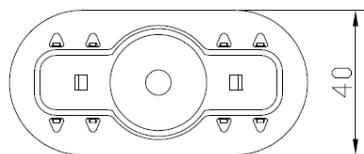
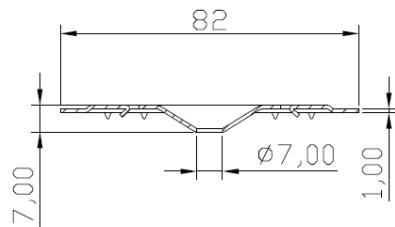
DFCF-63xLL
ERCS-63xLL-0-HWH-15C



DVP-DFB-8240D or EPM-B-8240D-7,0-1,0



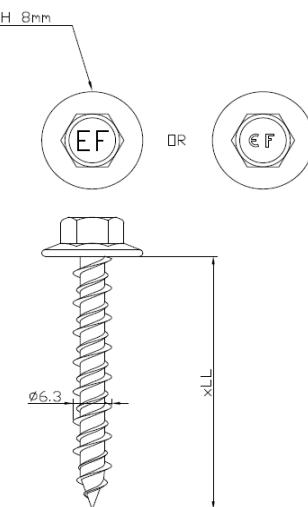
DFCF-63xLL
ERCS-63xLL-0-HWH-15C



Eurofast Flat Roof Fasteners

DFCF-63xLL (ERCS-63xLL-0-HWH-15C)

Annex P.8



DFCF-63xLL-S
ERCS-63xLL-0-FH-15C

Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)

	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,2 mm)*	Concrete C20/25 (drill 5,5 mm)**	Concrete C25/30 (drill 5,5 mm)**
DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)	3,76	4,85	3,67	4,02

* value also valid for holes drilled with 5,0 mm drills

** value also valid for holes drilled with 5,2 mm or 5,0 mm drills

Characteristic Values of Axial Pull-Through Resistance [kN]** (according to Figures 4 and 5 of UKAD 030351-00-0402)

	EDF-BAR F (ETM-2250-30-4.8-8.5-1.0)	EDF-BAR F-TUBE (ETM-T-2250-30-6.5-8.3-15.0-1.0)
	EDF-BAR FB (ETM-B-2250-30-4.8-8.5-1.0)	-
DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)	5,12	5,05

** "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)

Annex R.1

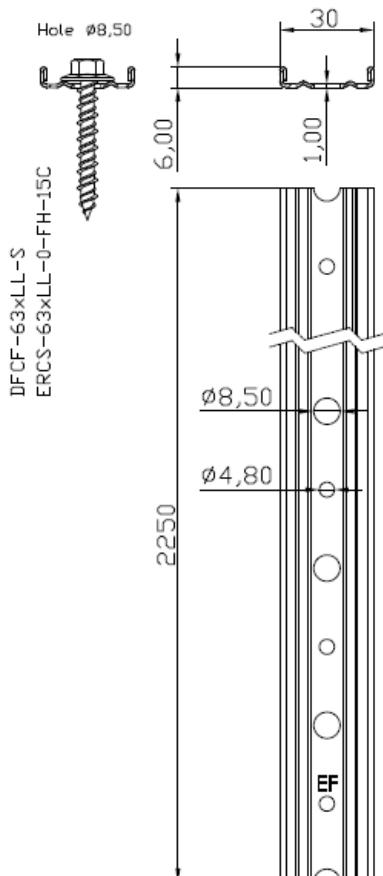
Screw:	DFCF-63xLL-S	(ERCS-63xLL-0-FH-15C)
Termination bar:		
EDF-BAR F	(ETM-2250-30-4.8-8.5-1.0)	
EDF-BAR FB	(ETM-B-2250-30-4.8-8.5-1.0)	
EDF-BAR F-TUBE	(ETM-T-2250-30-6.5-8.3-15.0-1.0)	
Substrate:		
Concrete	C12/15, C20/25, C25/30	EN 206
Installation data:		
HUKAD type:	Flange HUKAD 8mm	
Effective anchoring depth h_{ef} :	≥ 25 mm	
Drill diameter in concrete C12/15:	5,0 mm	
Drill diameter in concrete C20/25:	5,2 or 5,5 mm	
Drill diameter in concrete C25/30:	5,5 mm	
Drilled hole depth:	$h_{ef} + 10$ mm	
Installation force of installation tool:	15 kg + impact	
Installation tool speed:	100 rpm	

Eurofast Flat Roof Fasteners

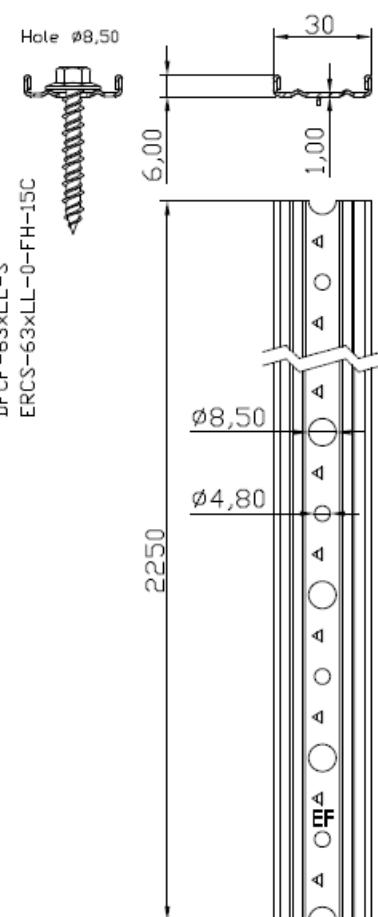
Annex R.2

DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)

EDF-BAR F or
ETM-2250-30-4.8-8.5-1.0



EDF-BAR FB or
ETM-B-2250-30-4.8-8.5-1.0

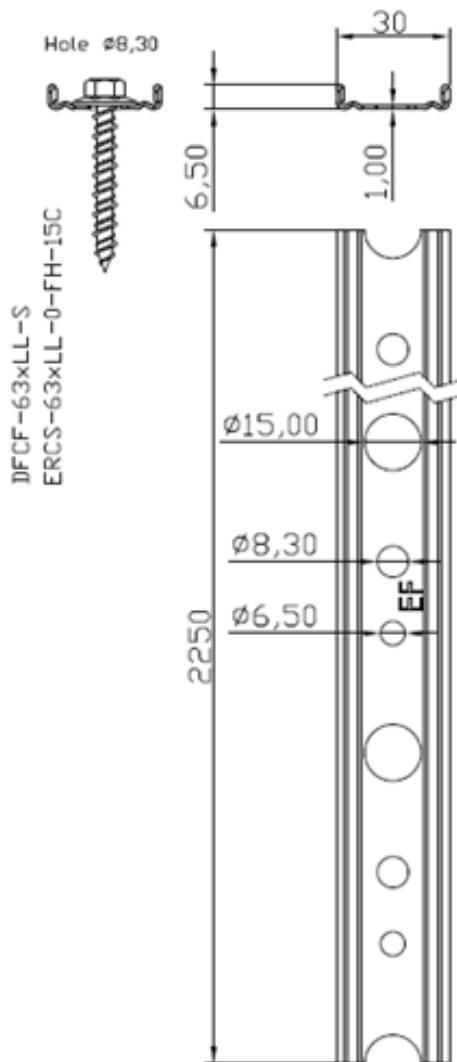


Eurofast Flat Roof Fasteners

DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)

Annex R.3

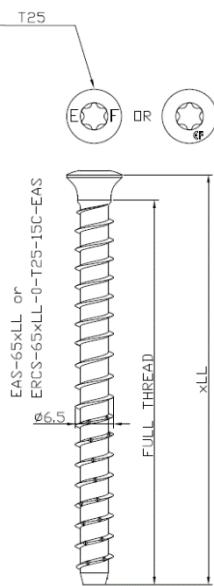
EDF-BAR-F-TUBE or
ETM-T-2250-30-6.5-8.3-15.0-1.0



Eurofast Flat Roof Fasteners

DFCF-63xLL-S (ERCS-63xLL-0-FH-15C)

Annex R.4



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)

	Concrete C12/15 (drill 5,0 mm)	Concrete C20/25 (drill 5,2 mm)*	Concrete C20/25 (drill 5,5 mm)**	Concrete C25/30 (drill 5,5mm)**
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)	2,59	3,34	2,85	3,12

* value also valid for holes drilled with 5,0 mm drills

** value also valid for holes drilled with 5,2 mm or 5,0 mm drills

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)

	BIO-45xLL (EPT-45xLL-BIO)	TLK-45xLL (EPT-45xLL-PP)	HTLK-45xLL (EPT-O-45xLL-PP)
TRP-45xLL (EPT-45xLL-PA)		TLK-75xLL (EPT-75xLL-PP)	-
BTRP-45xLL (EPT-B-45xLL-PA)	DVP-DL-70N + TLK-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)		-
TWP-8040xLL (EPT-8040xLL-PA)		-	-
EDF-BAR F-TUBE + KMT-15xLL (ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA)		-	-
DVP-KMT-8240 + KMT-15xLL (EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)		-	-
EPM-T-IP-80-13.6-0.8 + KMT-15xLL (EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)		-	-
EPM-T-IT-80-13.6-0.8 + KMT-15xLL (EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)		-	-
EPM-T-IE-80-13.6-0.8 + KMT-15xLL (EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)		-	-
DVP-DL-70N + TRP-45xLL (EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)		-	-
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)	2,50	1,74	1,77

* "Pull-over" according to CEN/TS 17659 : 2021

Eurofast Flat Roof Fasteners

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.1

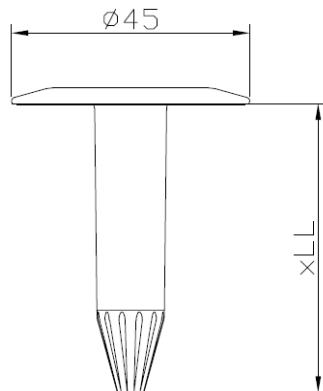
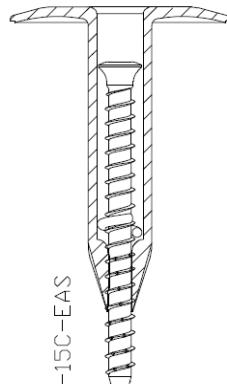
Screw: EAS-65xLL	(ERCS-65xLL-0-T25-15C-EAS)
Metal pressure plate:	
DVP-KMT-8240 + KMT-15xLL	(EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA)
EPM-T-IP-80-13.6-0.8 + KMT-15xLL	(EPM-T-IP-80-13.6-0.8 + EPT-15xLL-PA)
EPM-T-IT-80-13.6-0.8 + KMT-15xLL	(EPM-T-IT-80-13.6-0.8 + EPT-15xLL-PA)
EPM-T-IE-80-13.6-0.8 + KMT-15xLL	(EPM-T-IE-80-13.6-0.8 + EPT-15xLL-PA)
DVP-DL-70N + TRP-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PA)
DVP-DL-70N + TLK-45xLL	(EPM-EDL-70N-20-0.5 + EPT-45xLL-PP)
Pressure plate with tube:	
BIO-45xLL	(EPT-45xLL-BIO)
TRP-45xLL	(EPT-45xLL-PA)
BTRP-45xLL	(EPT-B-45xLL-PA)
TWP-8040xLL	(EPT-8040xLL-PA)
TLK-45xLL	(EPT-45xLL-PP)
HTLK-45xLL	(EPT-O-45xLL-PP)
TLK-75xLL	(EPT-75xLL-PP)
Substrate:	
Concrete	C12/15, C20/25, C25/30 EN 206
Installation data:	
HUKAD type:	Raised Bugle HUKAD
Recess:	TX25
Effective anchoring depth h_{ef} :	≥ 25 mm
Drill diameter in concrete C12/15:	5,0 mm
Drill diameter in concrete C20/25:	5,2 or 5,5 mm
Drill diameter in concrete C25/30:	5,5 mm
Drilled hole depth:	$h_{ef} + 10$ mm
Installation force of installation tool:	15 kg + impact
Installation tool speed:	100 rpm

Eurofast Flat Roof Fasteners

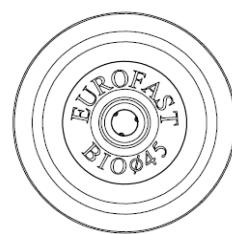
Annex S.2

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

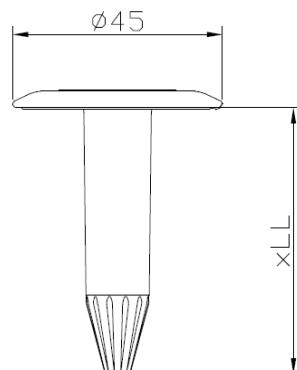
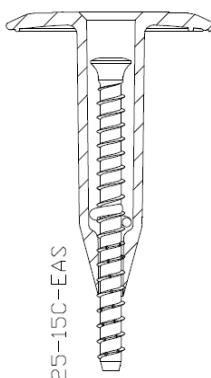
BIO-45xLL or EPT-45xLL-BIO



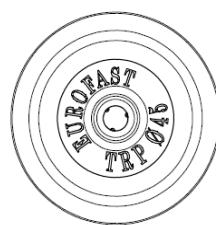
EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS



TRP-45xLL or EPT-45xLL-PA



EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS

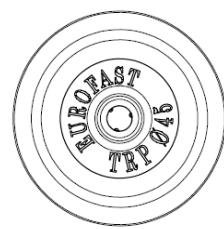
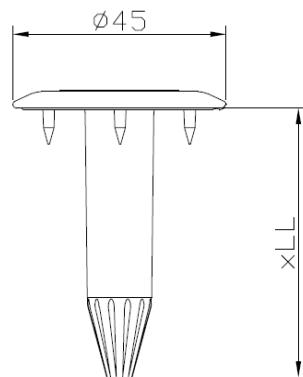
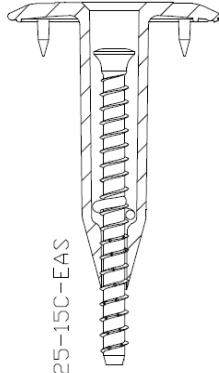


Eurofast Flat Roof Fasteners

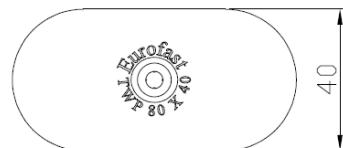
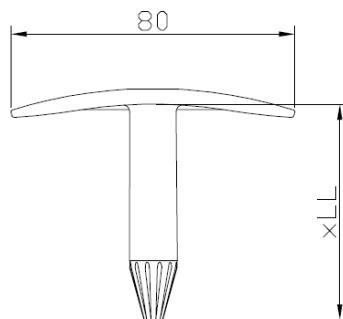
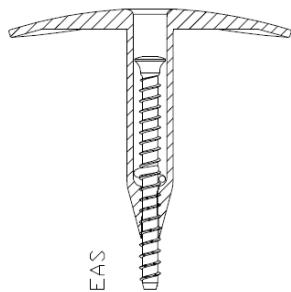
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.3

TRP-45xLL or EPT-45xLL-PA



TWP-8040xLL or EPT-8040xLL-PA

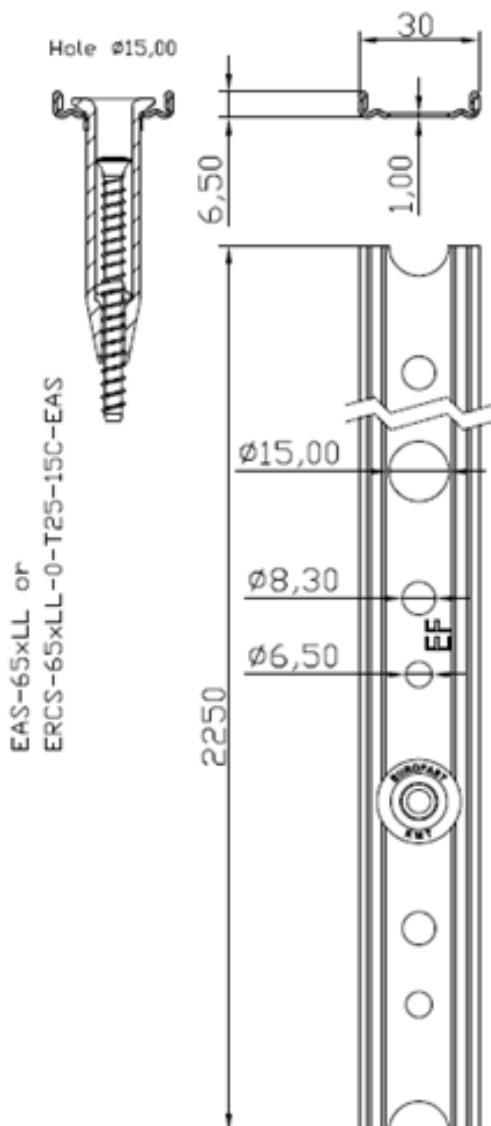


Eurofast Flat Roof Fasteners

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.4

EDF-BAR-F-TUBE + KMT-15xLL or
ETM-T-2250-30-6.5-8.3-15.0-1.0 + EPT-15xLL-PA



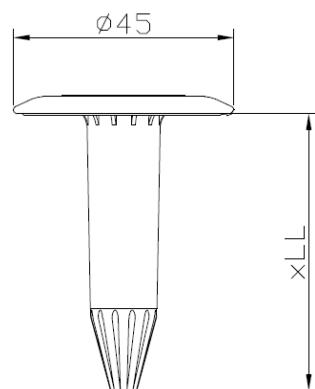
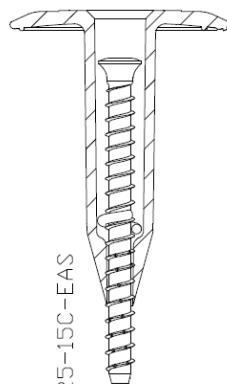
EAS-65xLL OR
ERCS-65xLL-0-T25-15C-EAS

Eurofast Flat Roof Fasteners

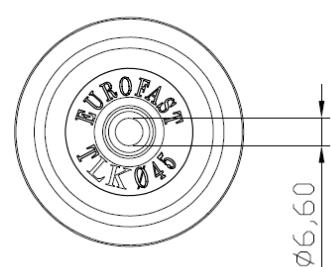
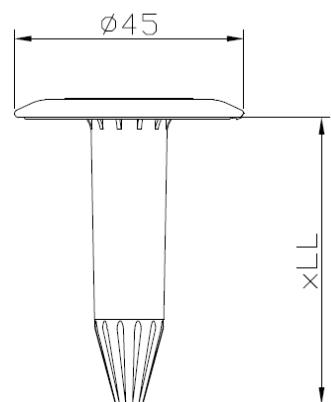
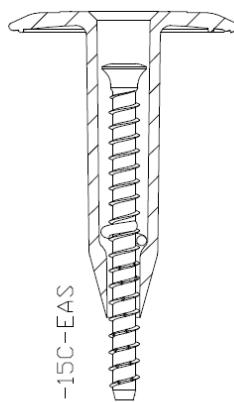
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.5

TLK-45xLL or EPT-45xLL-PP



HTLK-45xLL or EPT-0-45xLL-PP

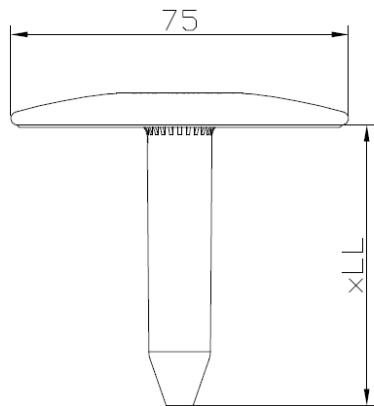
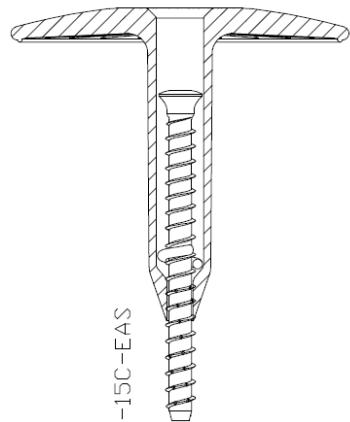


Eurofast Flat Roof Fasteners

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

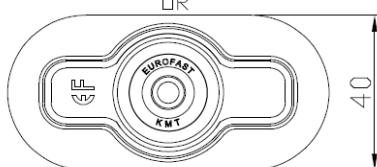
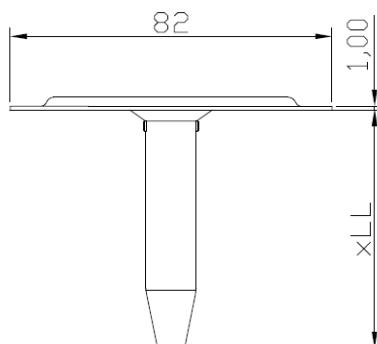
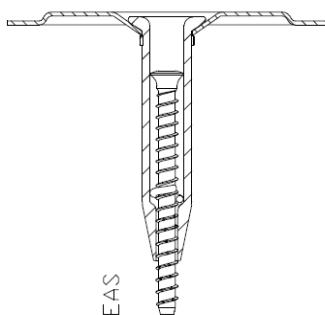
Annex S.6

TLK-75xLL or EPT-75xLL-PP



EUROFAST
TLK \varnothing 75

DVP-KMT-8240 + KMT-15xLL or
EPM-T-8240N-13.6-1.0 + EPT-15xLL-PA

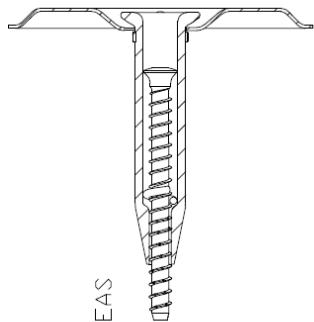


Eurofast Flat Roof Fasteners

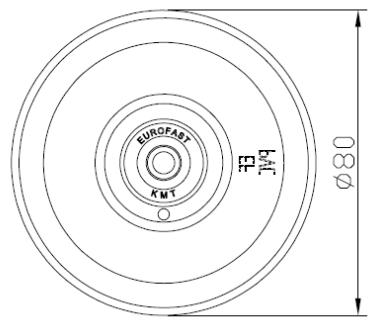
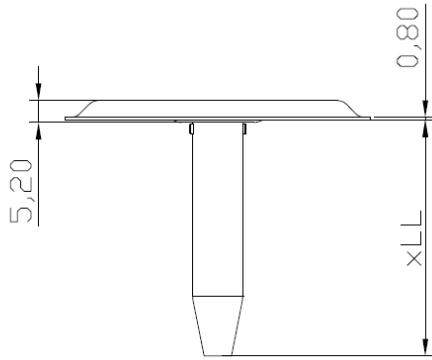
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.7

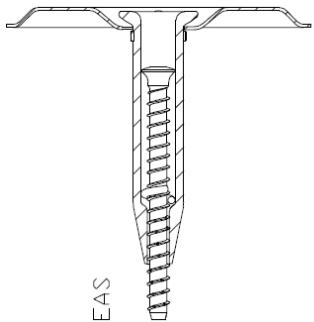
EPM-T-IP-80-13,6-0,8 + KMT-15xLL or
EPM-T-IP-80-13,6-0,8 + EPT-15xLL-PA



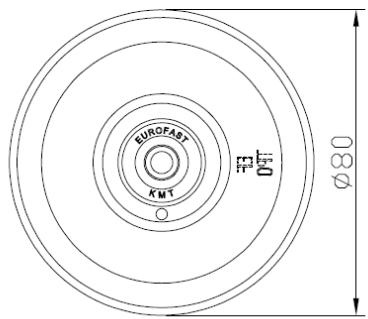
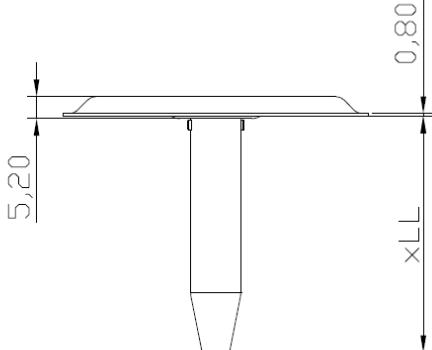
EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS



EPM-T-IT-80-13,6-0,8 + KMT-15xLL or
EPM-T-IT-80-13,6-0,8 + EPT-15xLL-PA



EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS

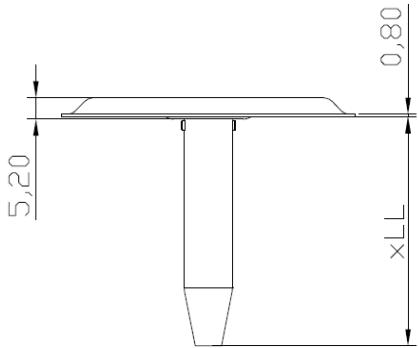
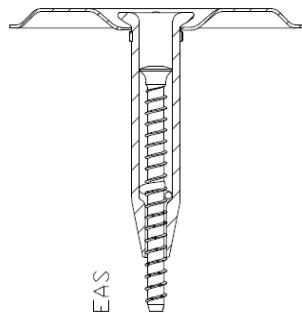


Eurofast Flat Roof Fasteners

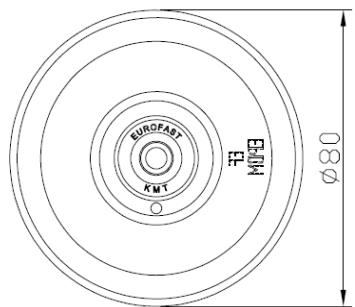
EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.8

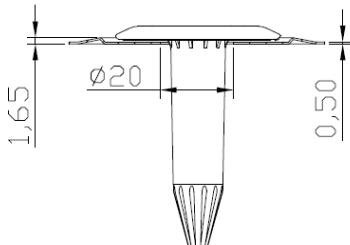
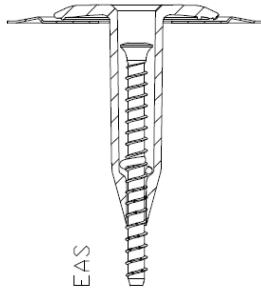
EPM-T-IE-80-13,6-0,8 + KMT-15xLL or
EPM-T-IE-80-13,6-0,8 + EPT-15xLL-PA



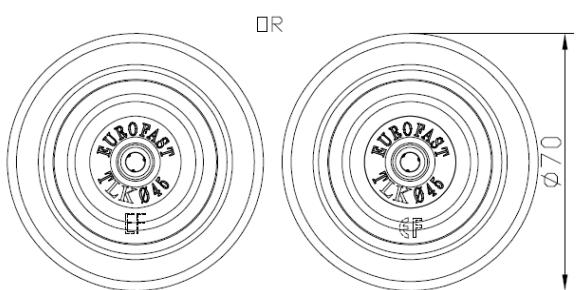
EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS



DVP-DL-70N + TLK-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PP



EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS

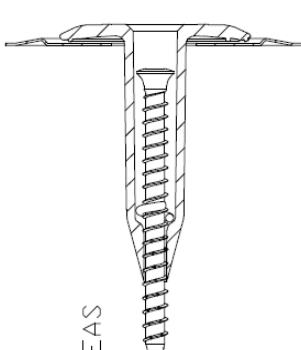


Eurofast Flat Roof Fasteners

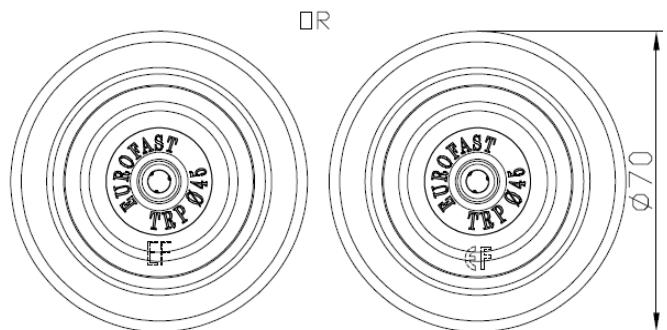
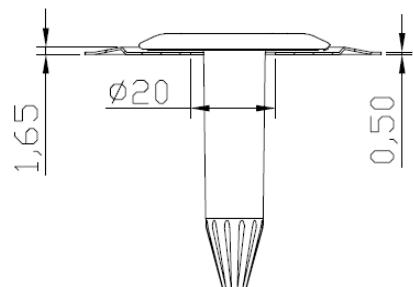
Annex S.9

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

DVP-DL-70N + TRP-45xLL or
EPM-EDL-70N-20-0,5 + EPT-45xLL-PA



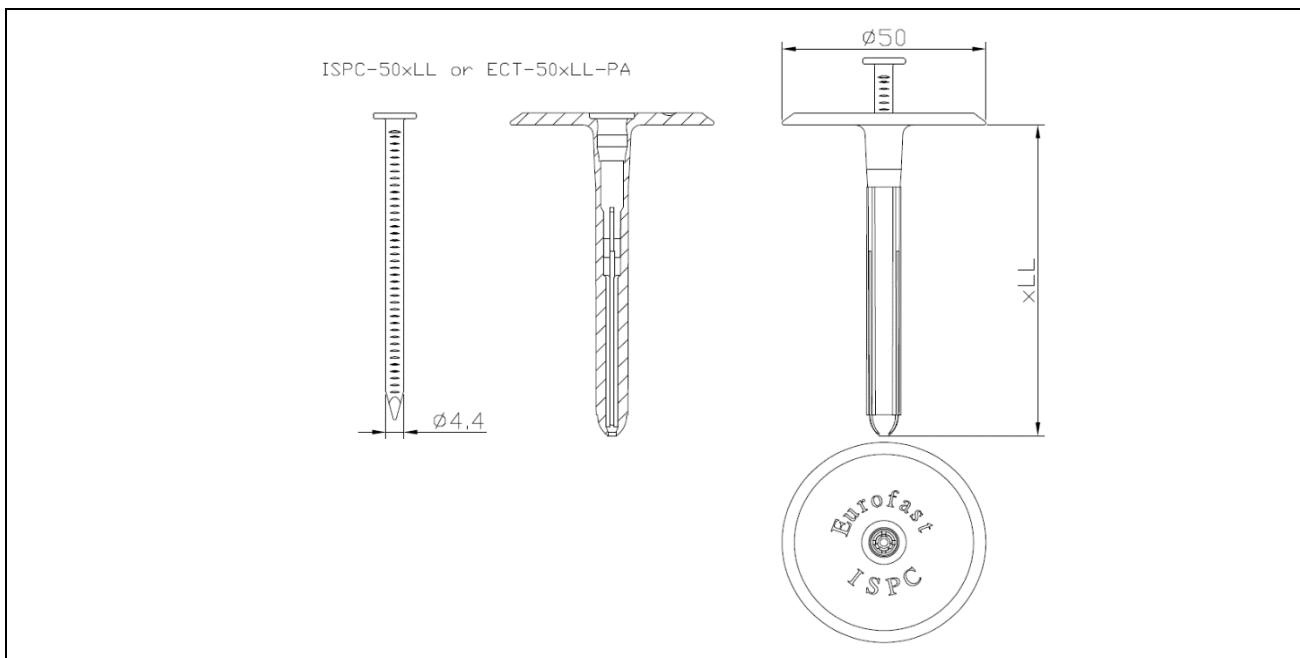
EAS-65xLL or
ERCS-65xLL-0-T25-15C-EAS



Eurofast Flat Roof Fasteners

EAS-65xLL (ERCS-65xLL-0-T25-15C-EAS)

Annex S.10



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)			
	Concrete C12/15 (drill 8,0 mm)	Concrete C20/25 (drill 8,0 mm)	Concrete C25/30 (drill 8,0 mm)
ISPC-50xLL (ECT-50xLL-PA)	2,02	2,61	2,85

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)			
	DVP-ISPC 70N 70N-12.0-0.5)	(EPM-ECT-	
ISPC-50xLL (ECT-50xLL-PA)		3,15	

* "Pull-over" according to CEN/TS 17659 : 2021

Screw:
ISPC-50xLL (ECT-50xLL-PA)

Metal pressure plate:
DVP-ISPC 70N (EPM-ECT-70N-12.0-0.5)

Substrate:
Concrete C12/15, C20/25, C25/30 EN 206

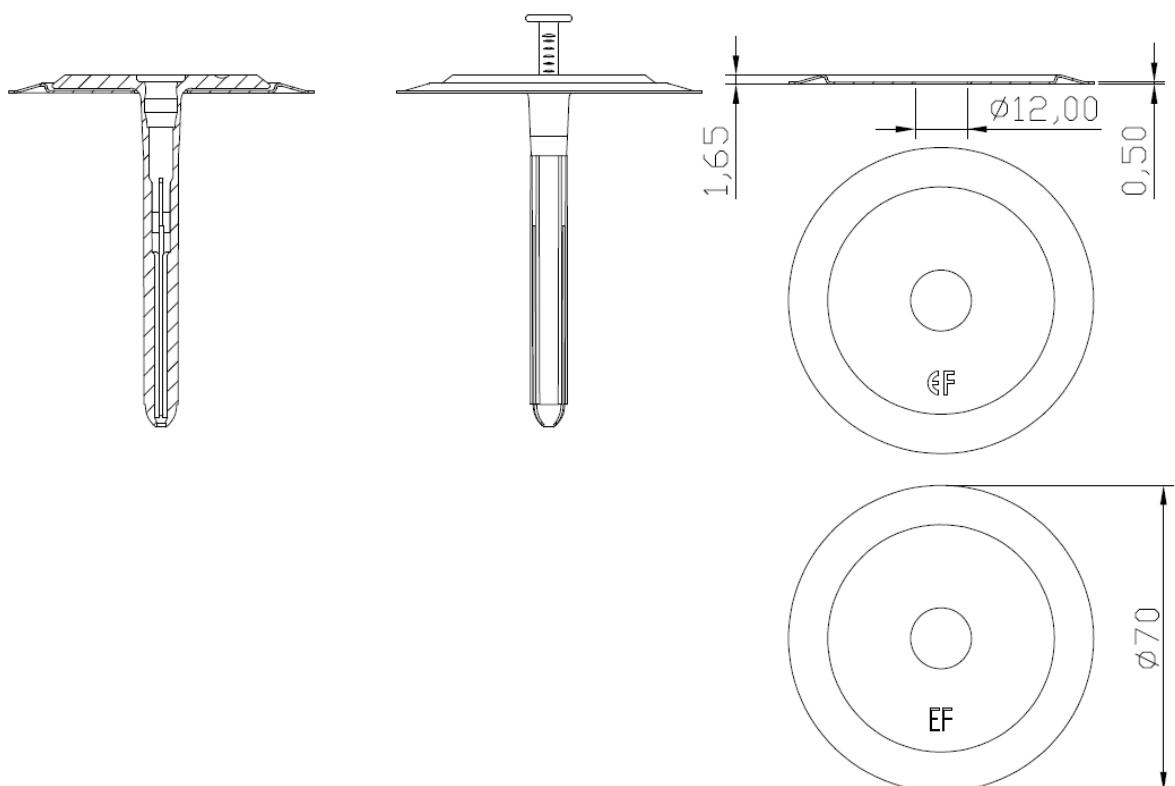
Installation data:
Effective anchoring depth h_{ef} : ≥ 25 mm
Drill diameter: 8,0 mm
Drilled hole depth in concrete: $h_{ef} + 15$ mm
Installation tool: hammer

Eurofast Flat Roof Fasteners

Annex T.1

ISPC-50xLL (ECT-50xLL-PA)

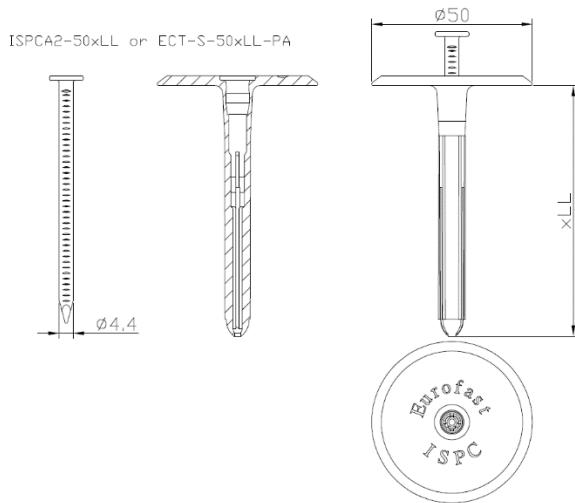
ISPC-50xLL + DVP-ISPC 70N or
ECT-50xLL-PA + EPM-ECT-70N-12,0-0,5



Eurofast Flat Roof Fasteners

ISPC-50xLL (ECT-50xLL-PA)

Annex T.2



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Figure 3 of UKAD 030351-00-0402)

	Concrete C12/15 (drill 8,0 mm)	Concrete C20/25 (drill 8,0 mm)	Concrete C25/30 (drill 8,0 mm)
ISPCA2-50xLL (ECT-S-50xLL-PA)	2,02	2,61	2,85

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Figures 4 and 5 of UKAD 030351-00-0402)

	DVP-ISPC 70N (EPM-ECT-70N-12.0-0.5)
ISPCA2-50xLL (ECT-S-50xLL-PA)	3,15

* "Pull-over" according to CEN/TS 17659:2021

Screw:
ISPCA2-50xLL (ECT-S-50xLL-PA)

Metal pressure plate:
DVP-ISPC 70N (EPM-ECT-70N-12.0-0.5)

Substrate:
Concrete C12/15, C20/25, C25/30 EN 206

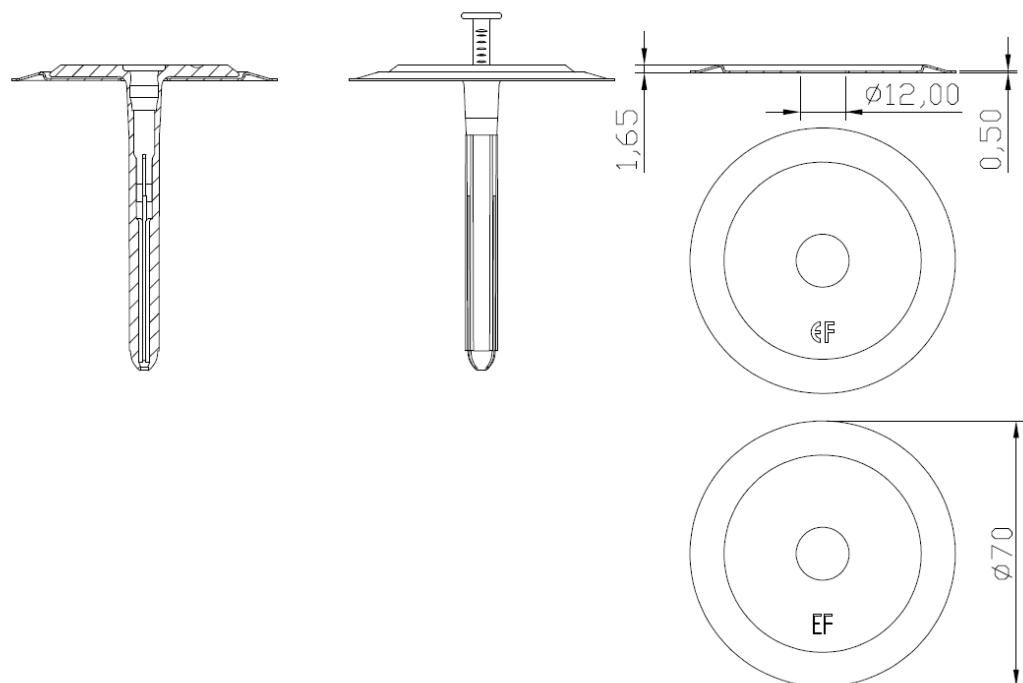
Installation data:
Effective anchoring depth h_{ef} : ≥ 25 mm
Drill diameter: 8,0 mm
Drilled hole depth: $h_{ef} + 15$ mm
Installation tool: hammer

Eurofast Flat Roof Fasteners

Annex U.1

ISPCA2-50xLL (ECT-S-50xLL-PA)

ISPCA2-50xLL + DVP-ISPC 70N or
ECT-S-50xLL-PA + EPM-ECT-70N-12.0-0.5



Eurofast Flat Roof Fasteners

ISPCA2-50xLL (ECT-S-50xLL-PA)

Annex U.2



British Board of Agrément,
1st Floor Building 3,
Hatters Lane,
Croxley Park
Watford
WD18 8YG