

IZJAVA O LASTNOSTIH  
DVP-EF-5010N

Št: 148806510038-2023-A

EUROFAST®

SL (Slovenian)

1. Enotna identifikacijska oznaka tipa proizvoda:

DVP-EF-5010N (oz. EPM-50N-6.3-1.0)

2. Predvidena uporaba:

PRITRDILA ZA FLEKSIBILNE STREŠNE HIDROIZOLACIJE

3. Proizvajalec:

Van Roij Fasteners Europe B.V. | Indumastraat 18 | 5753 RJ Deurne | Netherlands

4. Pooblaščen zastopnik:

Ni pomembno

5. Sistemi ocenjevanja in preverjanja nespremenljivosti lastnosti:

Sistem 2+

6. Evropski ocenjevalni dokument:

EAD 030351-00-0402 (od: 02.2019)

Evropska tehnična ocena:

ETA-23/0651 (izdan dne: 26.09.2023)

Organ za tehnično ocenjevanje

ITB (1488)

Priglašeni organi:

ITB (AC020) Certifikat: 1488-CPR-0662/Z

7. Navedene lastnosti:

Bistvene značilnosti	Lastnosti	Harmonizirana tehnična specifikacija
Aksialna obremenitev pritrdilnega elementa	Glej na naslednji strani/strane: Priloga A.2, B.2, C.2, D.2, E.1, J.2, K.2, L.2, N.2, O.2	ETA-23/0651
Odpornost proti odvijanju sponke	Vrtenje glave pritrdilnega elementa po 900 ciklih $\leq$ 1/2 obrata.	ETA-23/0651
-	-	-
Odpornost kovinskih pritrdilnih elementov proti koroziji	Prevečeni pritrdilni elementi iz ogljikovega jekla, izpostavljeni 15 Kesternichovim ciklom, ne kažejo več kot 15 % površinske korozije	ETA-23/0651
-	-	-

Lastnosti proizvoda, navedenega zgoraj, so v skladu z navedenimi lastnostmi. Za izdajo te izjave o lastnostih je v skladu z Uredbo (EU) št. 305/2011 odgovoren izključno proizvajalec, naveden zgoraj.

Kopija izjave o lastnostih je na voljo na [www.eurofastgroup.com](http://www.eurofastgroup.com)

Podpisal za in v imenu proizvajalca:

Kjell Verdonschot  
Chief Executive Officer C.E.O

V Deurne dne 27.09.2023

V skladu s Prilogo III k Uredbi (EU) št. 574/2014 z dne 21.02.2014.

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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

<b>Eurofast Flat Roof Fasteners</b>	<b>Annex A.2</b>
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)	

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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-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)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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

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

## Annex C.2

**Characteristic Values of Axial Pull-Through\* Resistance [kN]** (according to Fig. 4 and 5 of EAD 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

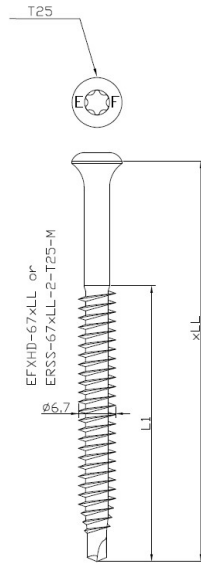
**Characteristic Values of Axial Pull-Through\* Resistance [kN]** (according to Fig. 4 and 5 of EAD 030351-00-0402)

	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**

**Annex D.2**

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



Characteristic Values of Axial Pull-Out Resistance [kN] (according to Fig. 3 of EAD 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 Fig. 3 of EAD 030351-00-0402)								
t [mm]	OSB/3				Chipboard	Plywood		Timber C24
	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 Fig. 4 and 5 of EAD 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 GEN/TS 17659:2021

## Eurofast Flat Roof Fasteners

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

## Annex E.1

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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

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

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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

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

## Annex K.2

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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

## Annex L.2

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

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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)

Characteristic Values of Axial Pull-Through* Resistance [kN] (according to Fig. 4 and 5 of EAD 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 Fig. 4 and 5 of EAD 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

## Eurofast Flat Roof Fasteners

## Annex O.2

EFR-65xLL (ERCS-65xLL-0-T25-15C)