SGS INTRON

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Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA

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European Technical Assessment

ETA-06/0007 of 01/08/2016

General Part

Technical Assessment Body issuing the ETA: SGS INTRON CERTIFICATIE B.V.	
Trade name of the construction product	EUROFAST®
Product family to which the construction product belongs	Fasteners for mechanically fastened flexible roof waterproofing systems
Manufacturer	VAN ROIJ FASTENERS EUROPE B.V. Jan Tooropstraat 16 NL-5753 DK DEURNE
Manufacturing plant(s)	Laid down in non-published supplement to this ETA
This European Technical Assessment contains	392 pages including 4 Annexes which form an integral part of this assessment.
This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of	ETAG No. 006 Guideline for European technical approval of systems of mechanically fastened flexible roof waterproofing membranes, edition March 2000, amended November 2012, used as European Assessment Document (EAD)
This ETA replaces	ETA-06/0007, issued on 01/03/2016

ANNEX 1 SURVEY OF EUROFAST® RANGE

1. Steel Washers

Eurofast® Code	Dimensions[1)2)] mm (L x W) or (∅) x T - ∅ hole	Eurofast® Code	Dimensions[1)2)] mm (L x W) or (∅) x T - ∅ hole
- DVP-DF-8240D	82 x 40 x 1.0 – 7.0	- DVP-EF-7007N	∅ 70 x 0.7 – 6.0
- DVP-EF-8240D	82 x 40 x 1.0 – 4.85	- DVP-EF-7007D	∅ 70 x 0.7 – 6.0
- DVP-DFB-8240D	82 x 40 x 1.0 – 7.0	- DVP-EF-7007H	∅ 70 x 0.7 – 6.0
- DVP-EFB-8240D	82 x 40 x 1.0 – 4.85	- DVP-EF-7010N	∅ 70 x 1.0 – 7.0
- DVP-DFB-8240H	82 x 40 x 1.0 – 7.0	- DVP-EF-7010D	∅ 70 x 1.0 – 7.0
- DVP-EFB-8240H	82 x 40 x 1.0 – 4.85	- DVP-EF-7010DFR	∅ 70 x 1.0 – 4.85
- DVP-DF-8240R	82 x 40 x 1.0 – 7.0	- DVP-DF-7070D	70 x 70 x 1.0 – 7.0
- DVP-EF-8240R	82 x 40 x 1.0 – 4.85	- DVP-EF-7070D	70 x 70 x 1.0 – 4.85
- DVP-DFB-8040D	82 x 40 x 1.0 – 7,0	- DVP-EF-8040N	80 x 40 x 1.0 – 7.0
- DVP-EFB-8040D	82 x 40 x 1.0 – 4.85	- DVP-EF-8040H	82 x 40 x 1.0 – 7.0
- DVP-EFZK-8240D	82 x 40 x 1.0 – 4.85	- DVP-EF-8040XH	82 x 40 x 1.0 – 7.0
- DVP-EF-4010N	∅ 40 x 1.0 – 6.0	- DVP-EF-8040D	80 x 40 x 1.0 – 7.0
- DVP-EF-4010N3	∅ 40 x 1.0 – Starsh.	- DVP-EF-7005N/D	∅ 70 x 0.5 – 5.0
- DVP-EF-5010N	∅ 50 x 1.0 – 6.3	- DVP-EFB-51NS	∅ 51 x 0.84 – 5.4
- DVP-EF-5010D	∅ 50 x 1.0 – 6.3	- DVP-EF-51N	∅ 51 x 0.84 – 6.7
- DVP-EF-5010DFR	∅ 50 x 1.0 – 4.85	- EDF-BAR-F/FB	2250 x 30 – 4.85/8.00
- DVP-K-4040H	40 x 40 x 0,8 – 5,0	- DVPKMT-8240	82 x 40 x 1.0 – 13.6
- ISPC-70N	∅ 70 x 0.5 – 12.0	- DVP-EF-8240XH	82 x 40 x 1.0 – 4.85
- DVP-DF-8240H	82 x 40 x 1.0 – 7.0	- DVP-EF-8240H	82 x 40 x 1.0 – 4.85
- DVP-DF-8240XH	82 x 40 x 1.0 – 7.0		

1) Detailed drawings, included tolerances are deposited in the MTD

2) Characters refer to profile type:
N = normal; D = deep; H = high

All Eurofast® steel washers are provided with the sign: EF

2. Plastic Washers

Eurofast® Code	Dimensions mm (L x W) or (∅)
TWP-8040Lxxx	80 x 40
TLK-45xxx	∅ 45
TLK-75xxx	∅ 75
TRP-45Lxxx	∅ 45
TRP-75L065	∅ 75
ISPC-50xxx	∅ 50
ISPC-A2	.∅ 50
KMT	∅ 15
BIO-45-L	∅ 45

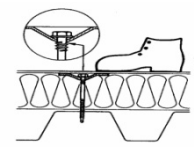
All plastic washers are provided with the mark: Eurofast®

ANNEX 1 SURVEY OF EUROFAST® RANGE

3. Screws

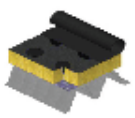
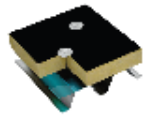
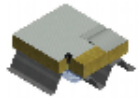
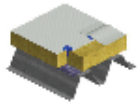
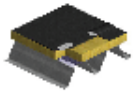
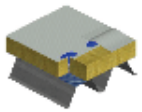
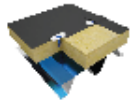
Eurofast® Code	Dimensions [1] ∅ (mm) L range (mm)	Head	Point	Application
- EDS-S-48	∅ 4.8 30 – 300	PH 2 Bugle	Sharp 25°	Steel decks 0,7 – 0,88 mm
- EDS – BZT/BGT-48 [2]	∅ 4.8 60 – 300	HWH 8 mm	Self drilling	Steel decks 0,7 - 2 x 1,25 mm/ wood, min. thickness 19 mm
- EDS-BZTR/BGTR-48	∅ 4.8 120 - 300	HWH 8 mm	Self drilling	Steel decks 0,7 - 2 x 1,25 mm
- EDS-BZTHD/BGTHD -48	∅ 4.8 140 – 300	HWH 8 mm	Self drilling	Steel decks ≤ 3 mm
- EDS-SRB-48	∅ 4.8 60 – 300	Oval head Torx25	Self drilling	Steel decks 0,7 - 2 x 1,25 mm
- EDS-B-48	∅ 4.8 35 – 300	PH 2 Bugle/ Tx25 Reduced Bugle	Self drilling	Wood, min. thickness 19 mm / Steel decks 0,7 - 2 x 1,25 mm
- EDS-B-55	∅ 5.5 50 - 210	Tx25 Reduced Bugle	Self drilling	Wood, min. thickness 19 mm / Steel decks 0,7 - 2 x 1,25 mm
- EFHD-63	∅ 6.3 60 - 400	Torx T-25 RSD Bugle	Ricoh point	Concrete / Steel decks0,7-0,88 mm / Wood
- DFHD-67	∅ 6.7 32	PANHEAD PH3	Self drilling	Steel decks, aluminium 0.7 mm
- DFCF-63	∅ 6.3 32 –305	HWH 8 mm	Nail point	Concrete
- EFR-63	∅ 6.3 28 - 300	Torx T-25 PH	Blunt	Concrete
- GBSA2-60	∅ 6.0 80 - 200	PH 2 Bugle	Sharp 25°	Aerated Concrete
- GBS-60	∅ 6.0 60 - 200	PH 2 Bugle/ Tx25 Reduced Bugle	Sharp 25°	Aerated Concrete
- GBS-80	∅ 8.0 65 - 190	Tx25 Reduced Bugle	Sharp 25°	Aerated Concrete
- EDS-H-50	∅ 5.0 20 - 120	PH 2 Bugle	Sharp 25°	Wood, min. thickness 19 mm

1) Detailed drawings, included tolerances are deposited in the MTD.
2) T refers to safe tread

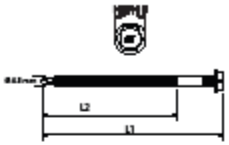
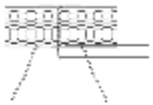
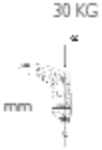
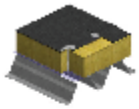
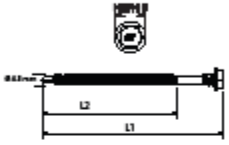
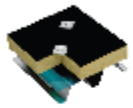
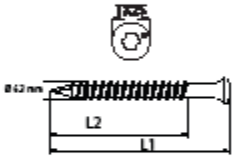
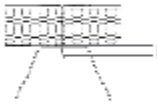
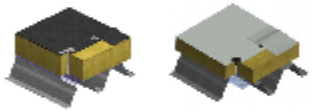
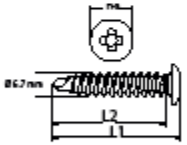
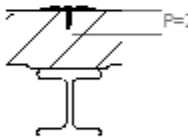
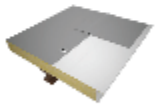
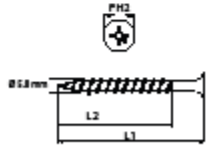
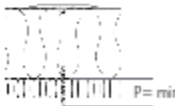
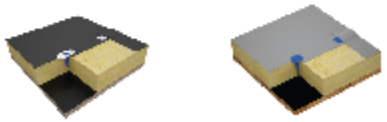
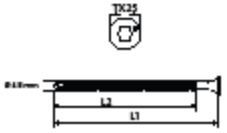
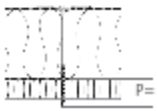


All Eurofast® fasteners are provided with the sign: EF

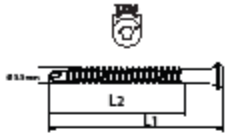
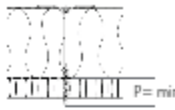
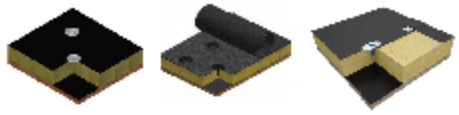
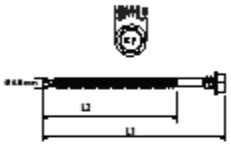
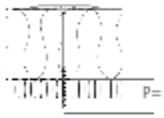
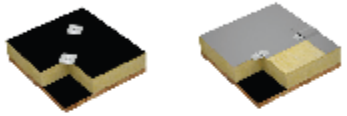
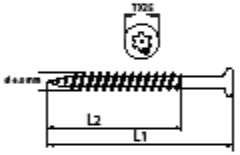
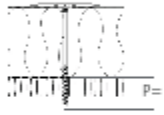
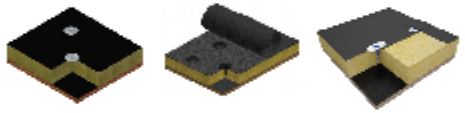
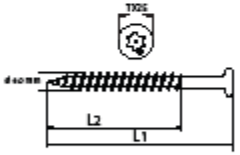
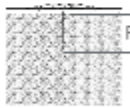
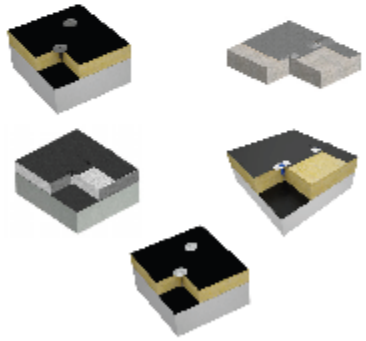
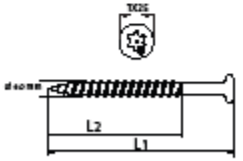
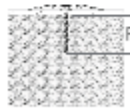
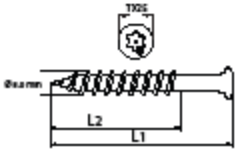
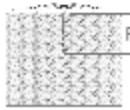
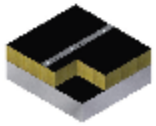
ANNEX 2 INSTALLATION INSTRUCTIONS

Description	Techn. Data	Product lay-out	L1	Cross-section	Penetration	Tool	RPM	View
EUROFAST® Deck Screw with S-Point trompet-head EDS-S	4.8 x Length Carbonsteel Magni-Silver coated	PH2 L2 L1	25 - 300 mm		P=20 mm	30 KG	~2500	 
EUROFAST® Deck Screw with Drill-Point trompet-head EDS-B-48	4.8 x Length Carbonsteel Magni-Silver coated	TX25 L2 L1	35 - 300 mm		P=20 mm	30 KG	~2500	 
EUROFAST® Deck Screw with Drill-Point trompet-head EDS-B-55	5.5 x Length Carbonsteel Magni-Silver coated	TX30 L2 L1	50 - 210 mm		P=20 mm	30 KG	~2500	 
EUROFAST® Deck Screw with Drill-Point trompet-head EDS-SRB	4.8 x Length Bi-Metal (RVS A4) Zinc plated coated	TX25 L2 L1	60 - 240 mm		P=20 mm	30 KG	~2500	

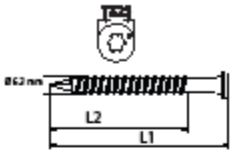
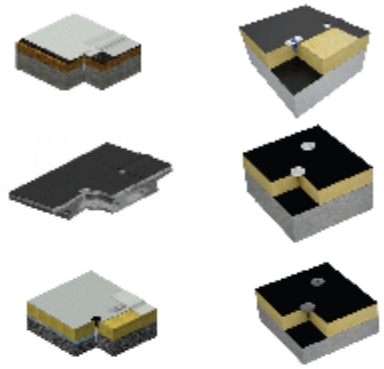
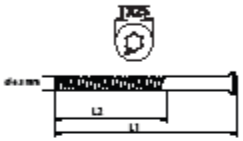
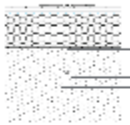
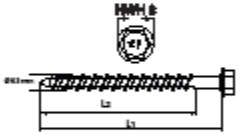
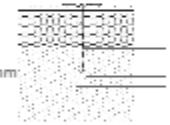
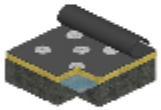
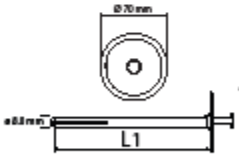
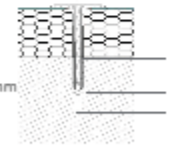
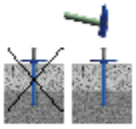
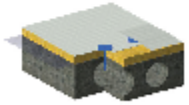
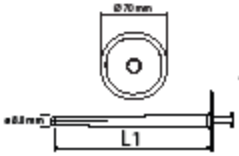
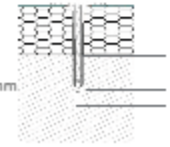
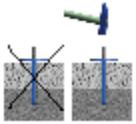
ANNEX 2 INSTALLATION INSTRUCTIONS

Description	Techn. Data	Product lay-out	L1	Cross-section	Penetration	Tool	RPM	View
EUROFAST® Deck Screw with Drill-Point hex-washer head "step-secure" EDS-BZT / EDS-BGT / EDS-BZTHD / EDS-BGTHD	4.8 x Length Carbonsteel Magni-Silver coated		60 - 300 mm		P=20 mm	 30 KG	~2500	
EUROFAST® Deck Screw with Drill-Point hex-washer head "step-secure" EDS-BZTR / EDS-BGTR	4.8 x Length Bi-Metal (RVS A4) Zinc plated coated		140 - 240 mm		P=20 mm	 30 KG	~2500	
EUROFAST® Deck Screw with Ricoh-Point trompet-head EFHD	6.3 x Length Carbonsteel Magni-Silver coated		30 - 400 mm		P=20 mm	 15 KG + hit	~1000	
EUROFAST® Deck Screw with reduced drill-point DFHD	6.7 x Length Carbonsteel Magni-Black coated		32 mm		P=20 mm	 30 KG	~2500	
EUROFAST® Deck Screw with S-Point trompet-head EDS-H	5.0 x Length Carbonsteel Magni-Silver coated		20 - 120 mm		P= min. 18mm	 15 KG	~2500	
EUROFAST® Deck Screw with Drill-Point trompet-head EDS-B-48	4.8 x Length Carbonsteel Magni-Silver coated		35 - 300 mm		P= min. 18mm	 30 KG	~2500	

ANNEX 2 INSTALLATION INSTRUCTIONS

Description	Techn. Data	Product lay-out	L1	Cross-section	Penetration	Tool	RPM	View
EUROFAST® Deck Screw with Drill-Point trompet-head EDS-B-55	5.5 x Length Carbonsteel Magni-Silver coated		50 - 210 mm		P= min. 18mm	 30 KG	~2500	
EUROFAST® Deck Screw with Drill-Point hex-washer head "step-secure" EDS-BZT / EDS-BGT	4.8 x Length Carbonsteel Magni-Silver coated		60 - 300 mm		P= min. 18mm	 30 KG	~2500	
EUROFAST® Deck Screw with S-Point trompet-head GBS-60	6.0 x Length Carbonsteel Magni-Silver coated		60 - 200 mm		P= min. 18mm	 15 KG	~2500	
EUROFAST® Deck Screw with S-Point trompet-head GBS-60	6.0 x Length Carbonsteel Magni-Silver coated		60 - 200 mm		P= 60 mm	 15 KG	~1000	
EUROFAST® Deck Screw with S-Point trompet-head GBS-A2	6.0 x Length RVS A2 Passivated		100 - 200 mm		P= 60 mm	 15 KG	~1000	
EUROFAST® Deck Screw with S-Point trompet-head GBS-80	8.0 x Length Carbonsteel Magni-Silver coated		65 - 190 mm		P= 60 mm	 15 KG	~1000	

ANNEX 2 INSTALLATION INSTRUCTIONS

Description	Techn. Data	Product lay-out	L1	Cross-section	Penetration	Tool	RPM	View
EUROFAST® Deck Screw with Ricoh-Point trompet-head EFHD	6.3 x Length Carbonsteel Magni-Silver coated		30 - 400 mm		P=35 mm + 10 mm	15 KG + hit 	~1000	
EUROFAST® Deck Screw with Blunt-Point cyclinderhead EFR	6.3 x Length Carbonsteel Magni-Silver coated		28 - 200 mm		P=35 mm + 10 mm	15 KG + hit 	~1000	
EUROFAST® Deck Screw with Nail-Point hex-washer head DFCF	6.0 x Length Carbonsteel Magni-Silver coated		32 - 305 mm		P=35 mm + 10 mm	15 KG + hit 	~1000	
EUROFAST® Deck Screw with S-Point trompet-head ISPC	8.0 x Length Polyamide PA6 Crapal-Zinc plated		45 - 410 mm		P=35 mm + 10 mm			
EUROFAST® Deck Screw with S-Point trompet-head ISPC-A2	8.0 x Length Polyamide PA6 RVS A2		45 - 410 mm		P=35 mm + 10 mm			

ANNEX 3 AXIAL LOAD RESISTANCE –METAL DECKS –CHARACTERISTIC VALUES

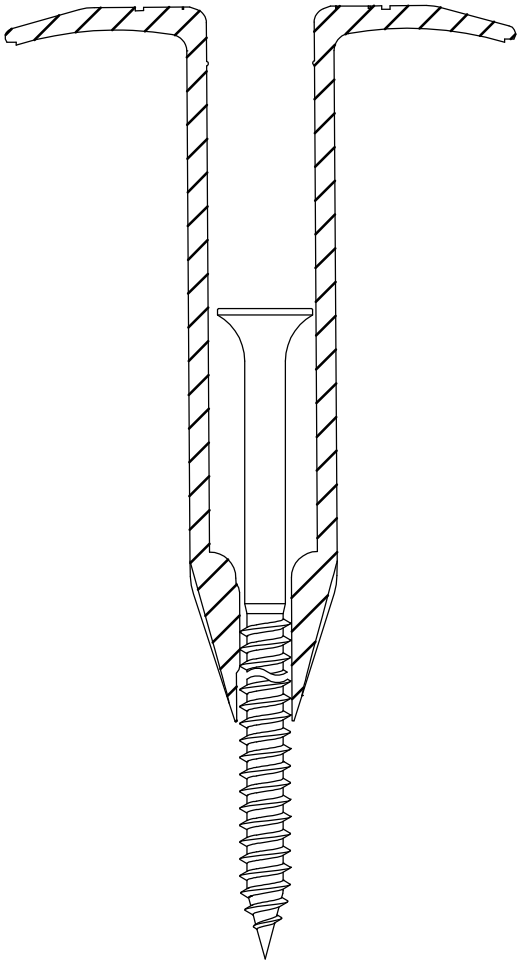
WASHERS	SCREWS								
	EDS-S-48	EDS-BZT/BGT -48	EDS-BZTR/BGTR -48	EDS-SRB-48	EDS-B-48	EDS-B-55	EFHD-63	EDS-BZTHD/BGTHD 48	DFHD-67
STEEL WASHERS									
DVP-EF/DF-8240D/R	1370	**1230**	1090	1030	1390	1390	1320	1680	
DVP-EFB/DFB-8240D/H	1280	**1280**	1090	1030	1280	1280	1280	1280	
DVP-EFB/DFB-8040D	1290	**1340**	1090	1030	1340	1340	1320	1340	
DVP- EFZK-8240D	1490	1340	1090	1030	1390	1390	1320	**4150**	
DVP-EF-5010N/D	**1370**	1340	1090	1030	**1390**	1390	1320	1940	1860
DVP-EF-5010DFR	1370								
DVP-K-4040H	1490								
DVP-EF-7007N/D/H	1490	1340	1090	1030	1390	**1390**	**1320**	3910	
DVP-EF-7010 N/D	1490	1340	1090	1030	1390	1390	1320	3910	1860
DVP-EF-7010DFR	1490								
DVP-EF/DF-7070 D		1340	1090					3910	
DVP-EF-8040D/N	1490	**1320**	**1090**	**1030**	**1310**	1390	1320	3510	
DVP-EF-8240H/XH	1490	**1320**	**1090**	**1030**	**1310**	1390	1320	3510	
DVP-EF-7005D/N	**1290**			1030	1290	1290	1290		
DVP-DF-8240H/XH	1490	1320	1090	1030	1310	1390	1320	3510	
DVP-EFB-51NS	1490			1030	1390	1390	1320		1860
DVP-EF-51N	1490			1030	1390	1390	1320		**1860**
EDF-BAR-F/FB	1110	**1110**	1090	1030	1110	1110	1110	1110	
KMT/DVPKMT-8240	**1490**			1030	1390	1390	1320		
PLASTIC WASHERS									
TWP-8040Lxxx	1160			1030	**1160**	1160			
TLK-45xxx	**1340**			1030	**1080**	1390	1320		
TLK-75xxx	1150			1030	**1150**	1150	1150		
TRP-45Lxxx	1260			1030	**1260**	1260			
BIO-45-L	**1260**				1390	1390			
SUBSTRUCTURE	**Steel deck 0,7 – 0,88 mm**							**Steel deck 3,0 mm**	**Steel deck 0,7 – 0,88 mm Aluminium ≥ 0.63 mm**

= possible combination	= no combination

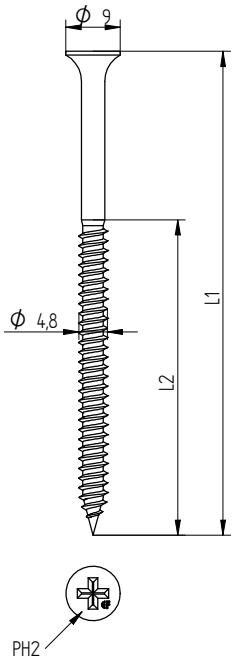
ANNEX 3 AXIAL LOAD RESISTANCE (AERATED) CONCRETE AND WOOD – CHARACTERISTIC VALUES

WASHERS	SCREWS											
	GBSA2-60	GBS-60	GBS-80	ISPC	EFHD-63	DFCF-63	EFR-63	EDS-B-48	EDS-BZT/BGT - 48	EDS-B-55	EDS-H-50	EFHD-63
STEEL WASHERS												
DVP-EF/DF-8240D/R	1680	1440			**1680**	1680	1680					1680
DVP-EFB/DFB-8240D/H	1280	1280			1280	1280	1280	1280	1280	1280	1280	1280
DVP-EFB/DFB-8040D	1340	1340			1340	1340	1340	1330	1330	1530	1340	1340
DVP- EFZK-8240D	1940	1440			3510	3910	1720	1330	**1330**	1530	1330	1330
DVP-EF-4010N/N3	1200	1200									**1200**	
DVP-EF-5010N/D	**1940**	1440	1440		**1490**	1940	1720	1330	1330	1530	1340	**1500**
DVP-EF-5010DFR	1940	1440						1330	1330	1530	1340	
DVP-EF-7007N/D/H	1940	**1440**			3510	**3910**	1720	1330	1330	**1530**	1340	**1950**
DVP-EF-7010 N/D	1940	1440	1440		3510	3910	1720	1330	1330	1530	1340	1950
DVP-EF-7010DFR	1940	1440						1330	1330	1530	1340	
DVP-EF/DF-7070 D	1940	1440			3510	3910	1720	1330	1330	1530	1340	
DVP-EF-8240H/XH	1940	1440			**3510**	3510	1720	1330	1330	1530	1340	1950
DVP-EF-7005D/N	1290	1290						1290	1290	1290	1290	1290
DVP-DF-8240H/XH	1940	1940			3510	3910	1720	1330	1330	1530	1340	1950
DVP-EFB-51NS	1860	1440			1860	1860	1720	1330	1330	1530	1340	1860
DVP-EF-51N	1860	1440			1860	1860	1720	1330	1330	1530	1340	1860
EDF-BAR-F/FB	1110	1110	1110		1110		1110	1110	1110	1110	1110	1110
KMT/DVPKMT-8240	1490	1440			1490	1490	1490	1330	1330	1490	**1340**	**1490**
PLASTIC WASHERS												
TWP-8040Lxxx								1160	1160	1160	1160	1160
TLK-45xxx	1720	**1390**			**1510**		**1720**	1330	1330	1530	**1150**	1720
TLK-75xxx	1150	1150			1150		1150	1150	1150	1150	1150	1150
TRP-45Lxxx							1260	1260	1260	1260	1260	
BIO-45-L	1510	1440					1510				**1510**	
PLUG PIN COMBINATIONS												
ISPC-50xxx				**1650**								
ISPC-70N				**1750**								
ISPC-A2				**1720**								
SUBSTRUCTURE	**Aerated Concrete**			**Concrete**				**Wood**				

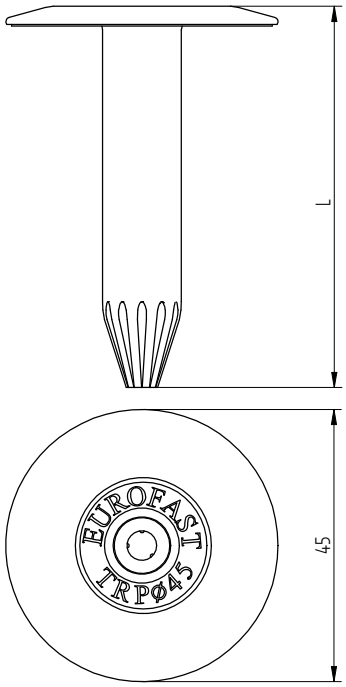
= possible combination	= no combination



Eurofast EDS-S
4,8 x L



Eurofast
TRP-45



Combination:
Eurofast TRP-45 x L
Eurofast EDS-S 4,8 x L

Van Roij Fasteners Europe b.v.
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