

Walraven Fixings for Ventilation Systems



BIS Aero® Clamps

The new generation of spiral duct clamps



Rubber lining is conjoined with the clamp



Trouble-free sliding of spiral duct clamp



Patented quick locking system



BIS Suspension Components for Air Ducts

BIS Aero®	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
 - material: pipe clamp made of steel, pre-galvanized - noise insulating lining made of TPE rubber, black	411 5 080	80	M8	700	25
	411 5 100	100	M8	700	25
	411 5 125	125	M8	700	20
	411 5 140	140	M8	720	20
	411 5 150	150	M8	720	20
	411 5 160	160	M8	720	20
	411 5 180	180	M8	720	20
	411 5 200	200	M8	720	20
	411 5 225	225	M8	720	20
	411 5 250	250	M8	720	20
	411 5 280	280	M8	720	25
	411 5 300	300	M8	720	25
	411 5 315	315	M8	720	25
	411 5 355	355	M8	720	25
	411 5 400	400	M8	720	20
	411 5 450	450	M8/10	1.150	3
	411 5 500	500	M8/10	1.150	3
	411 5 560	560	M8/10	1.150	3
	411 5 600	600	M8/10	1.150	3
	411 5 630	630	M8/10	1.150	3
	411 5 710	710	-	1.150	3
	411 5 800	800	-	1.150	3
	411 5 900	900	-	1.150	3
	411 5 999	1.000	-	1.150	3
	411 5 997	1.120	-	1.150	3
	411 5 998	1.250	-	1.150	3

D ≥ 450 mm locking: 2 hexagon head bolts with nut.
D ≥ 710 mm without connection nut.
The max. allowed load (Fa,z) is calculated using specific statistical methods related to the breaking load, taking into account a deflection of 1.5 mm or 2% of the maximum nominal clamp diameter.

BIS Aero® Rail	Part number	Dimensions / Techn. details		Pack
 - especially designed for support of air ducts - profiled for extra strength - material: steel S250GD+Z275 (EN10346), with a minimal yield strength of 250 N/mm² - pre-galvanized	650 2 210	BIS Aero® 10	25 x 20 x 1,0	20
	650 2 220	BIS Aero® 20	25 x 40 x 1,2	20
	650 2 310	BIS Aero® 10	25 x 20 x 1,0	30
	650 2 320	BIS Aero® 20	25 x 40 x 1,2	30

BIS Aero® Rubber Strip	Part number	Dimensions / Techn. details		Pack
 - noise insulating lining for BIS Aero® Rail - also suitable for threaded rod M8 and M10 - material: EPDM rubber, black - sound insulating lining according DIN 4109	656 2 001	25 m.		25

BIS Support Brackets Rectangular Ductwork	Part number	Dimensions / Techn. details	Fa,z (N)	Pack
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- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated
- sound insulating lining according DIN 4109

412 5 001	L	490	50
412 5 003	Z	230	50

BIS Support Brackets Round Ductwork	Part number	Dimensions / Techn. details	Fa,z (N)	Pack
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- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated
- sound insulating lining according DIN 4109

412 5 004	V	490	50
412 5 005	A	490	50

BIS Rubber Absorption Pieces	Part number	Dimensions / Techn. details	Pack
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- e.g. for noise insulating suspension of fixing rail in combination with threaded rod M10
- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated

412 5 007	M	100
412 5 008	F	100
412 5 006	M + F	50

BIS RapidRail®

Fast and easy fixing



Insert, lock, done

The accessories are pre-assembled and delivered 'ready to use' to site. The plastic spring allows the slide nut to be fixed into the rail easily saving up to 40% fixing time.



Extensive system

The BIS RapidRail® System offers an unprecedented choice for rail profiles and cantilever arms plus an extensive range of accessories for pipe fixing and rail construction.



Easy fixing

BIS RapidRail® WM15, WM30 and WM35 have a unique hole pattern allowing the accessories to be used on both sides of the rail.

BIS RapidRail® Fixing System

BIS RapidRail® Fixing Rail	Part number	Dimensions / Techn. details			Pack
 - material: steel 1.0242 - yield strength 240 N/mm² - pre-galvanized	650 5 000	2 m	WM0 - 27x18	RAL ¹	20
	650 5 001	2 m	WM1 - 30x15	RAL ¹	20
	650 5 601	6 m	WM1 - 30x15	RAL ¹	60
	650 5 015	2 m	WM15 - 30x20	RAL ¹	20
	650 5 615	6 m	WM15 - 30x20	RAL ¹	60
	650 5 002	2 m	WM2 - 30x30	RAL ¹	20
	650 5 602	6 m	WM2 - 30x30	RAL ¹	60
	650 5 030	2 m	WM30 - 30x45	RAL ¹	20
	650 5 630	6 m	WM30 - 30x45	RAL ¹	60
	650 5 235	2 m	WM35 - 38x40	-	20
	650 5 635	6 m	WM35 - 38x40	-	60

BIS RapidRail® Cantilever Arms	Part number	Dimensions / Techn. details			Pack
 - surface protection: - product is part of the BIS UltraProtect® 1000 system - suitable for indoor and outdoor applications - stands min. 1,000 hours salt spray test (max. 5% red rust) according to ISO 9227	660 3 015	150 mm	WM0 - 27x18		20
	660 3 019	200 mm	WM0 - 27x18		20
	660 3 715	150 mm	WM15 - 30x20		20
	660 3 720	200 mm	WM15 - 30x20		20
	660 3 725	250 mm	WM15 - 30x20		20
	660 3 215	150 mm	WM2 - 30x30		20
	660 3 220	200 mm	WM2 - 30x30		10
	660 3 225	250 mm	WM2 - 30x30		10
	660 3 230	300 mm	WM2 - 30x30		10
	660 3 240	400 mm	WM2 - 30x30		20
	660 3 245	450 mm	WM2 - 30x30		20
	660 3 250	500 mm	WM2 - 30x30		20
	6603 6 820	200 mm	WM35 - 38x40		10
	6603 6 825	250 mm	WM35 - 38x40		10
	6603 6 835	350 mm	WM35 - 38x40		10
	6603 6 840	400 mm	WM35 - 38x40		10
	6603 6 850	500 mm	WM35 - 38x40		10
	6603 6 860	600 mm	WM35 - 38x40		1

BIS RapidRail® Slide Nuts	Part number	Dimensions / Techn. details			Pack
 zinc plated	651 3 106	M6	WM0 - 35		50
	651 3 108	M8	WM0 - 35		50
	651 3 110	M10	WM0 - 35		50



RAL¹ = tested, certified and monitored by a third party according to RAL-GZ 655/C and RAL-GZ 655/D. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/gb/en/catalogue/. For more information about the max. allowed load (F_{a,z}) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidRail®'.

BIS RapidRail® Hammerfix



■ zinc plated

Part number	Dimensions / Techn. details			Pack
652 3 802	M8	25 mm	WM0 - 35	25
652 3 803	M8	30 mm	WM0 - 35	25
652 3 804	M8	40 mm	WM0 - 35	25
652 3 805	M8	50 mm	WM0 - 35	25
652 3 806	M8	60 mm	WM0 - 35	25
652 3 807	M8	70 mm	WM0 - 35	25
652 3 808	M8	80 mm	WM0 - 35	25
652 3 809	M8	90 mm	WM0 - 35	25
652 3 810	M8	100 mm	WM0 - 35	25
652 3 812	M8	120 mm	WM0 - 35	25
652 3 815	M8	150 mm	WM0 - 35	25
652 3 816	M8	160 mm	WM0 - 35	25
652 3 818	M8	180 mm	WM0 - 35	25
652 3 820	M8	200 mm	WM0 - 35	25
652 3 002	M10	25 mm	WM0 - 35	25
652 3 003	M10	30 mm	WM0 - 35	25
652 3 004	M10	40 mm	WM0 - 35	25
652 3 005	M10	50 mm	WM0 - 35	25
652 3 006	M10	60 mm	WM0 - 35	25
652 3 007	M10	70 mm	WM0 - 35	25
652 3 008	M10	80 mm	WM0 - 35	25
652 3 009	M10	90 mm	WM0 - 35	25
652 3 010	M10	100 mm	WM0 - 35	25
652 3 016	M10	160 mm	WM0 - 35	25
652 3 018	M10	180 mm	WM0 - 35	25

BIS RapidRail® Connectors 90°



■ zinc plated

Part number	Dimensions / Techn. details				Pack
658 4 001	Long / long	(3)	RAL ¹	WMO - 35	25
658 4 002	Short / long	(2)	RAL ¹	WMO - 35	25
658 4 003	Short / short	(1)	RAL ¹	WMO - 35	25
658 4 011	Long / long	(4)	RAL ¹	WMO - 35	25

BIS RapidRail® Connectors 135°



■ zinc plated

Part number	Dimensions / Techn. details				Pack
658 4 051	Long / long	(3)	RAL ¹	WM0 - 35	25
658 4 052	Short / long	(2)	RAL ¹	WM0 - 35	25
658 4 053	Short / short	(1)	RAL ¹	WM0 - 35	25

BIS RapidRail® Connector	Part number	Dimensions / Techn. details			Pack
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■ zinc plated

654 3 001	WM0 - 35	RAL ¹	25
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BIS RapidRail® T and X-Connector	Part number	Dimensions / Techn. details			Pack
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■ zinc plated

658 4 090	T	WM0 - 35	RAL ¹	25
658 4 091	X	WM0 - 35	RAL ¹	25

BIS RapidRail® Cross Connectors	Part number	Dimensions / Techn. details			Pack
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■ zinc plated

658 4 152	WM15	RAL ¹	25
658 4 153	WM2	-	25

BIS RapidRail® Beam Clamp	Part number	Dimensions / Techn. details			Pack
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■ zinc plated

658 5 011	< 16	WM0 - 30	50
658 5 014	< 20	WM35	50

BIS RapidRail® Rail Suspension Bracket	Part number	Dimensions / Techn. details			Pack
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■ zinc plated

679 3 008	WM0 - 35	RAL ¹	50
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BIS Rubber Strip	Part number	Dimensions / Techn. details			Pack
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- noise insulating lining for rail
- also usable for threaded rod M6, M8 or M10
- sound insulating lining according DIN 4109

656 8 001	30 m	WM0 - 35	30
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BIS RapidStrut®

For all medium and heavy rail applications



Fast and easy

The accessories are pre-assembled and delivered 'ready to use' on site. The plastic spring allows the slide nut to be fixed easily into the rail, retaining the assembly in place before final tightening.



Extensive system

The BIS RapidStrut® Fixing system offers an extensive choice for rail profiles and cantilever arms. A broad range of accessories are also available including: slide nuts, T-bolt assemblies and swivel hangers.



BIS RapidStrut® Fixing Rail DS 5

The DS 5 has a unique hole pattern allowing BIS RapidStrut® Accessories to be mounted quickly on both sides of the rail.

For indoor and outdoor use

Extreme corrosion resistance. For a complete overview and more info: www.walraven.com/int/bis-ultraprotect



BIS RapidStrut® Fixing System

BIS RapidStrut® Fixing Rail (pg)	Part number	Dimensions / Techn. details				Pack
 - material: steel 1.0242 - Part No. 650 5 X85 (Strut 2.5 mm) - material: steel 1.0332 - yield strength 240 N/mm² - pre-galvanized	650 5 224	Perforated	2 m	41x21x1,50	RAL ¹	20
	650 5 324	Perforated	3 m	41x21x1,50	RAL ¹	30
	650 5 624	Perforated	6 m	41x21x1,50	RAL ¹	60
	650 5 225	Perforated	2 m	41x21x2,50	RAL ¹	20
	650 5 325	Perforated	3 m	41x21x2,50	RAL ¹	30
	650 5 625	Perforated	6 m	41x21x2,50	RAL ¹	60
	650 5 244	Perforated	2 m	41x41x1,50	RAL ¹	20
	650 5 344	Perforated	3 m	41x41x1,50	RAL ¹	30
	650 5 644	Perforated	6 m	41x41x1,50	RAL ¹	60
	650 5 242	Perforated	2 m	41x41x2,00	RAL ¹	20
	650 5 342	Perforated	3 m	41x41x2,00	RAL ¹	30
	650 5 245	Perforated	2 m	41x41x2,50	RAL ¹	20
	650 5 345	Perforated	3 m	41x41x2,50	RAL ¹	30
	650 5 645	Perforated	6 m	41x41x2,50	RAL ¹	60
	650 5 365	Perforated	3 m	41x62x2,50	-	30
	650 5 665	Perforated	6 m	41x62x2,50	-	60
	650 5 385	Perforated	3 m	41x82x2,50	-	30
	650 5 685	Perforated	6 m	41x82x2,50	-	60

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BIS RapidStrut® Fixing Rail Double (pg)		Part number	Dimensions / Techn. details		Pack
 - material: steel 1.0332 - yield strength 240 N/mm² - pre-galvanized		650 5 626	6 m	41x42 (21x2) x 2,5	6
		650 5 646	6 m	41x82 (41x2) x 2,5	6
		650 5 666	6 m	41x124 (62x2) x 2,5	6
		650 5 686	6 m	41x164 (82x2) x 2,5	6

BIS RapidStrut® Cantilever Arms		Part number	Dimensions / Techn. details		Pack
 - material: steel 1.0226 - surface protection: product is part of the BIS UltraProtect® 1000 system	660 3 831	200 mm	Strut 41x21x2.5	10	
	660 3 832	300 mm	Strut 41x21x2.5	10	
	660 3 861	150 mm	Strut 41x41x2.5	10	
	660 3 862	300 mm	Strut 41x41x2.5	10	
	660 3 863	450 mm	Strut 41x41x2.5	10	
	660 3 864	600 mm	Strut 41x41x2.5	8	
	660 3 865	750 mm	Strut 41x41x2.5	8	

BIS RapidStrut® Slide Nuts G2		Part number	Dimensions / Techn. details	Pack
	■ surface protection: product is part of the BIS UltraProtect® 1000 system	6651 8 5108	M8	20
		6651 8 5110	M10	20
		6651 8 5112	M12	20

BIS RapidStrut® Hammerfix G2

Part number

Dimensions / Techn. details

Pack



■ surface protection:
product is part of the BIS
UltraProtect® 1000 system

6527 8 5804	M8	40 mm	5
6527 8 5805	M8	50 mm	15
6527 8 5806	M8	60 mm	5
6527 8 5808	M8	80 mm	5
6527 8 5810	M8	100 mm	5
6527 8 5004	M10	40 mm	5
6527 8 5006	M10	60 mm	5
6527 8 5008	M10	80 mm	5
6527 8 5204	M12	40 mm	5
6527 8 5206	M12	60 mm	5

BIS RapidStrut® Rail Connectors 90° G2

Part number

Dimensions / Techn. details

Pack



■ surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5102	Short / short	(1)	2 sides pre-assembled	50
6658 8 5202	Short / short	(2)	2 sides pre-assembled	50
6658 8 5203	Short / long	(3)	2 sides pre-assembled	25
6658 8 5205	Long / long	(4)	2 sides pre-assembled	20

BIS RapidStrut® Rail Connectors 135° G2

Part number

Dimensions / Techn. details

Pack



■ surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5235	Long / long	2 sides pre-assembled	20
6658 8 5330	Short / long	1 side pre-assembled	25

BIS RapidStrut® Rail Connectors G2

Part number

Dimensions / Techn. details

Pack



■ surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5184	2 x M10	82 mm	50
6658 8 5186	4 x M10	164 mm	25

BIS RapidStrut® Rail Connectors

Part number

Dimensions / Techn. details

Pack



■ zinc plated

6658 7 185	3 x M10	123 mm	25
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BIS RapidStrut® Rail Connector – U-shaped G2	Part number	Dimensions / Techn. details	Pack
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- surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5421	Strut	20
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BIS RapidStrut® Rail T and X-Connector G2	Part number	Dimensions / Techn. details	Pack
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- surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5213	T	20
6658 8 5223	X	15

BIS RapidStrut® Cross Connectors G2	Part number	Dimensions / Techn. details	Pack
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- surface protection:
product is part of the BIS
UltraProtect® 1000 system

6658 8 5402	20	Strut 41x21	25
6658 8 5404	40	Strut 41x41	25
6658 8 5405	50	Strut 41x51 (BIS RapidStrut® DS 5)	25
6658 8 5406	60	Strut 41x62	15
6658 8 5408	80	Strut 41x82	10

BIS Strut Rail Beam Clamps	Part number	Dimensions / Techn. details	Pack
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- hot dip galvanized

6658 1 711	90 mm	Strut 41x21 + 41x41 + 41x21D	25
6658 1 721	130 mm	Strut 41x62 + 41x82 + 41x41D	25

Also available in stainless steel 1.4401 (AISI 316).

BIS Strut Rubber Strips	Part number	Dimensions / Techn. details	Pack
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- sound insulating lining
according DIN 4109

656 8 041	1/4 – 1/2"	30 m	30
656 8 042	1/4 – 1/2"	50 mm	50



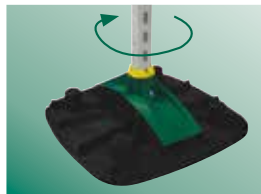
For a complete overview and more info: www.walraven.com/int/bis-ultraprotect

BIS Yeti® Support System

Innovative and multifunctional



Adjustable to compensate roof pitch up to 7° (type 480)



360° rotatable insert for BIS RapidStrut® 41 x 41 or BIS RapidStrut® DS 5 (41 x 52 mm)



Complete set including non-slip anti-vibration mat



Optional stackable ballast block to increase weight / stability (type 480)



BIS Rooftop + Solar Fixings

BIS Yeti® 480 Support System	Part number	Dimensions / Techn. details	Pack
 - mouldings made of WPC, a composite of recycled plastic and wood fibre - resistant to UV and chemical influences - BIS Yeti® 480 H-set consisting of: 2 x BIS Yeti® 480 vertical, including non-slip anti-vibration mat (made of rubber) 2 x BIS Strut-Rail end cap 2 x BIS Strut Connector 90° 6 x hexagon head bolts and slide nuts - surface protection: product is part of the BIS UltraProtect® 1000 system	6768 5 001	Vertical, including non-slip anti-vibration mat	1
	6768 5 101	Horizontal, including non-slip anti-vibration mat	1
	6768 5 301	H-set (without Strut Rail)	1
	6768 5 401	Ballast block	1
		  	
		<i>BIS Yeti® 480 Vertical Fa,z: 2.500 N</i> <i>BIS Yeti® 480 Horizontal Fa,z: 2.500 N</i> <i>Stackable ballast block for BIS Yeti® 480 Weight 8 kg</i>	

BIS Yeti® 335 Support System	Part number	Dimensions / Techn. details	Pack
 - mouldings made of WPC, a composite of recycled plastic and wood fibre - resistant to UV and chemical influences - BIS Yeti® 335 H-set consisting of: 2 x BIS Yeti® 335 including non-slip anti-vibration mat (made of rubber) 2 x BIS Strut-Rail end cap 2 x BIS Strut Connector 90° 6 x hexagon head bolts and slide nuts - surface protection: product is part of the BIS UltraProtect® 1000 system	6768 5 201	Including non-slip anti-vibration mat	1
	6768 5 302	H-set (without Strut Rail)	1
			
		<i>For horizontal and vertical use, 335 x 335 mm.</i>	

BIS Ursus Foot Support System		Part number	Dimensions / Techn. details		Pack
	■ for supporting small pipe work systems, ductwork runs and cable trays	6768 7 250	Horizontal, including rail	250 mm	1
		6768 7 400	Horizontal, including rail	400 mm	1
		6768 7 600	Horizontal, including rail	600 mm	1
	■ to support climate installations, walkways on flat roofs, etc.				
	■ does not penetrate the waterproof membrane				
	■ material: vulcanized rubber, black; Strut Rail made of steel 1.0242				
	■ UV resistant				
	■ surface protection: product is part of the BIS UltraProtect® 1000 system				



For a complete overview and more info: www.walraven.com/int



BIS Suspension Band



BIS Stainless Steel Suspension Band	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
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- material: stainless steel 1.4401 (AISI 316)

083 3 012	10 m	12 x 0,8	1.210	10
083 3 017	10 m	17 x 0,8	1.730	10
083 3 026	10 m	26 x 1,0	3.900	10

BIS Suspension Band – Plated	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
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- with continuous perforation (on request without perforation)
- material: steel
- pre-galvanized

083 0 012	5055	10 m	12 x 1,0	880	10
083 0 017	5055	10 m	17 x 1,0	1.230	10
083 1 012	5055L	10 m	12 x 0,8	700	10
083 1 017	5055L	10 m	17 x 0,8	980	10
083 1 026	5055L	10 m	26 x 1,0	1.400	10

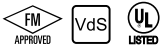
BIS Suspension Band – Plasticized	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
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- with continuous perforation (on request without perforation)
- material: steel, PVC coated
- pre-galvanized, welded plastic case
- Part No. 083 2 7XX: bundled
- Part No. 083 2 019: in card board box

083 2 714	10 m	14 x 3,0	880	10
083 2 728	10 m	26 x 3,2	1.400	10
083 2 719	10 m	19 x 3,0	1.230	10
083 2 019	10 m	19 x 3,0	1.230	18

BIS Fixing Accessories

BIS Beam Clamps Model C		Part number	Dimensions / Techn. details		Fa,z (N)		Pack
 - for a solid fixing to steel construction without the need for welding or drilling - according to VdS-regulations an additional safety strap should be used when supporting pipes above DN65 - material: cast iron beam clamp; hardened steel bolt, steel nut, zinc plated		600 3 006	≤ 23	M6	2.500	-	50
		600 3 208	≤ 18	M8	1.200	VdS	50
		600 3 008	≤ 23	M8	2.500	VdS	50
		600 3 010	≤ 20	M10	2.500	VdS, FM	50
		600 3 310	≤ 28	M10	2.500	VdS, FM	25
		600 3 905	≤ 18	Ø 9 mm	1.200	VdS	50
		600 3 908	≤ 23	Ø 9 mm	2.500	VdS	50
		600 3 910	≤ 20	Ø 11 mm	2.500	VdS, FM	50

Tighten the set screw with hand and apply a further 1/2 turn with a spanner. Tighten counter nut with hand and apply a further 1/8 turn with a spanner. Certificates available on request.

BIS Roofing Sheet Hangers VdS		Part number		Fa,z (N)		Pack
 	 for mounting to profiled roofing sheet by means of pop rivets or threaded rod	678 5 001	Ø 13.0 mm	2.300	VdS	50
	 material: steel	678 5 008	M8	2.300	VdS	50
	 pre-galvanized	678 5 010	M10	2.300	VdS	50
	 with VdS-approval - certificate number G 4070033	Maximum load (Fa,z) depends on the load capacity of the trapezium shaped roofing sheet. Before mounting, the roof load capacity has to be confirmed by a structural engineer.				

BIS Hole Punching Pliers		Part number	Dimensions / Techn. details	Pack
	■ for trapezium shaped roofing sheets up to max. 1.5 mm thickness	692 0 012	BIS Hole punching pliers	1
	■ weight approximately 3.5 kg	692 0 013	BIS Replacement set punches	1
	■ maximum jaw opening 90 mm			
	■ with punches Ø 10.5 mm			

BIS Suspension Eyes		Part number	Dimensions / Techn. details		Fa,z (N)	Pack
	■ closed design to maximize loading	680 3 008	M8	Ø 8.5	2.580	100
	■ material: steel	680 3 010	M10	Ø 10.5	3.540	100
	■ zinc plated					

BIS Suspension Eyes – Wood Thread



- material: steel
- zinc plated

Part number	Dimensions / Techn. details		Fa,z (N)	Pack
681 3 650	H6	85 mm	1.140	100
681 3 850	H8	100 mm	1.800	100

BIS Self Tapping Screws



- material: steel
- zinc plated

Part number	Dimensions / Techn. details			Pack
618 6 131052	B	10 mm	3,5	1.000

BIS Threaded Rods



- according to DIN 976-1
- material: steel
- zinc plated

Part number	Dimensions / Techn. details			Pack
630 3 008	M8	1 m		50
630 3 208	M8	2 m		25
630 3 010	M10	1 m		25
630 3 210	M10	2 m		20

BIS Stud Connectors



- to connect 2 male threaded components
- material: steel
- zinc plated

Part number	Dimensions / Techn. details			Pack
645 3 830	M8	30 mm	11	100
645 3 930	M10	30 mm	13	50
645 3 940	M10	40 mm	13	50

BIS Thread Adaptors (M/F)



- to enlarge or reduce the thread size in the connection of clamps, etc.
- material: steel
- zinc plated

Part number	Dimensions / Techn. details			Pack
647 3 206	M8	M6		100
647 3 210	M8	M10		100
647 3 221	M8	1/2"		50
647 3 308	M10	M8		100
647 3 312	M10	M12		50
647 3 316	M10	M16		50
647 3 321	M10	1/2"		25

BIS DobyGrip

Catenary Wire System



Strong, simple and fast

- Ideal for static objects hung in high areas
- Lightweight for easy on site assembly
- No need for additional bracketry
- Strict quality inspection procedures and independent tests ensure reliability

Catenary Wire System for multiple applications



BIS DobyGrip

BIS DobyGrip Loop	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
 - for a quick and easy fixing to roof and bearing beams, ridge beams, etc. - material: 7x7 stranded galvanized steel wire rope	0948 1 101	1 m	1.0	100	10
	0948 1 102	2 m	1.0	100	10
	0948 1 103	3 m	1.0	100	10
	0948 1 105	5 m	1.0	100	10
	0948 1 201	1 m	2.0	500	10
	0948 1 202	2 m	2.0	500	10
	0948 1 203	3 m	2.0	500	10
	0948 1 205	5 m	2.0	500	10

BIS DobyGrip Stud		Part number	Dimensions / Techn. details			Fa,z (N)	Pack
 ■ for a quick and easy fixing to ceilings by means of a wall plug/drop-in-anchor ■ material: 7x7 stranded galvanized steel wire rope	0948 2 281	M8	1 m	2.0	500	10	
	0948 2 282	M8	2 m	2.0	500	10	
	0948 2 283	M8	3 m	2.0	500	10	
	0948 2 285	M8	5 m	2.0	500	10	

BIS DobyGrip Slide Nut		Part number	Dimensions / Techn. details			Fa,z (N)	Pack
	 ■ for a quick and easy fixing to C-profile (type WM0, 1, 15, 2, 30 or 35)	0948 4 201	M8	1 m	2.0	500	10
		0948 4 202	M8	2 m	2.0	500	10

BIS DobyGrip Snap End Hook	Part number	Dimensions / Techn. details		Fa,z (N)	Pack
 - for a quick and easy fixing to hooks and suspension eyes - material: 7x7 stranded galvanized steel wire rope	0948 6 201	1 m	2.0	500	10
	0948 6 202	2 m	2.0	500	10
	0948 6 203	3 m	2.0	500	10

Britclips® Electrical Fixings

Britclips® Rapid RTB	Part number	Dimensions / Techn. details		Pack
 - for fixing to trapezium shaped roofing sheets - material: steel - pre-galvanized	678 1 108	RTB 8	M8	50
	678 1 110	RTB 10	M10	50
	678 1 013	RTB 13	Ø 13.0 mm	50

Maximum load (Fa,z) depends on the load capacity of the trapezium shaped roofing sheet. Before mounting, the roof load capacity has to be confirmed by a structural engineer.

BIS Fastenings

BIS TSM Concrete Screws		Part number	Dimensions / Techn. details		Fa,z (N)	Pack
  	- suitable for concrete (cracked and non-cracked), sand-lime bricks, clinker, brick, natural stone, etc. - material: steel 1.5523 (according to DIN EN 1654-4) - surface treatment: zinc lamella coating	625 3 606	M8/10	35 mm	600	50
	Max. allowed load (Fa,z) refers to non-cracked concrete (classification C20/25). Values will significantly decrease in case of cracked concrete or fire (F60 - F120). For detailed information please see ETA-10/0114, ETA-10/0115 and ETA-06/0124					

BIS Drop-in Anchors and Setting Tools		Part number	Dimensions / Techn. details		Fa,z (N)	Pack	
 	- suitable for non-cracked concrete - technical details and approval certificates on request - material: steel - zinc plated	610 3 008	Anchor	M8	30 mm	1.200	100
		610 3 010	Anchor	M10	40 mm	1.550	100
		691 8 008	Setting tool	M8	-	-	25
		691 8 010	Setting tool	M10	-	-	25
		Setting tool M8 and M10 with hand protection. Max. allowed load (Fa,z and Fa,x, known as recommended tension and shear load) in concrete C20/25 to C50/60.					

BIS Brass Wall Plugs		Part number	Dimensions / Techn. details		Fa,z (N)	Pack
	- for fixing to concrete, brick, natural stone, sand-lime brick, solid wood, etc. - star plug for metric screws - reduced built-in depth	610 7 008	M8	28.0 mm	1.100	150
		610 7 010	M10	32.0 mm	1.600	100
		Max. allowed load (Fa,z) in concrete ≥25N/mm2. Other materials on demand.				

BIS HK-S		Part number	Dimensions / Techn. details		Pack
 	- for suspension of static loads such as air ducts, lowered ceilings, etc. to concrete - HK-S for suspension band up to width 25 mm - material: stainless steel 1.4401 (AISI 316) - tested by CSTB - test report ED/05-010 (HK-S)	6107 3 524	HK-S, with setting tool		100
	Max. allowed load (Fa) in concrete (350 kg/m3), drill hole Ø 8 mm. Safety margin 1:4.				



le futur en construction
HK: Report EP002-4-05
HK-S: Report ED05-010

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