

Short form catalogue

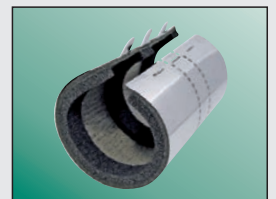
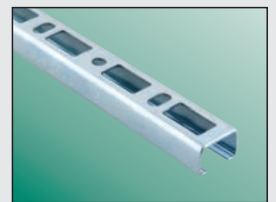


















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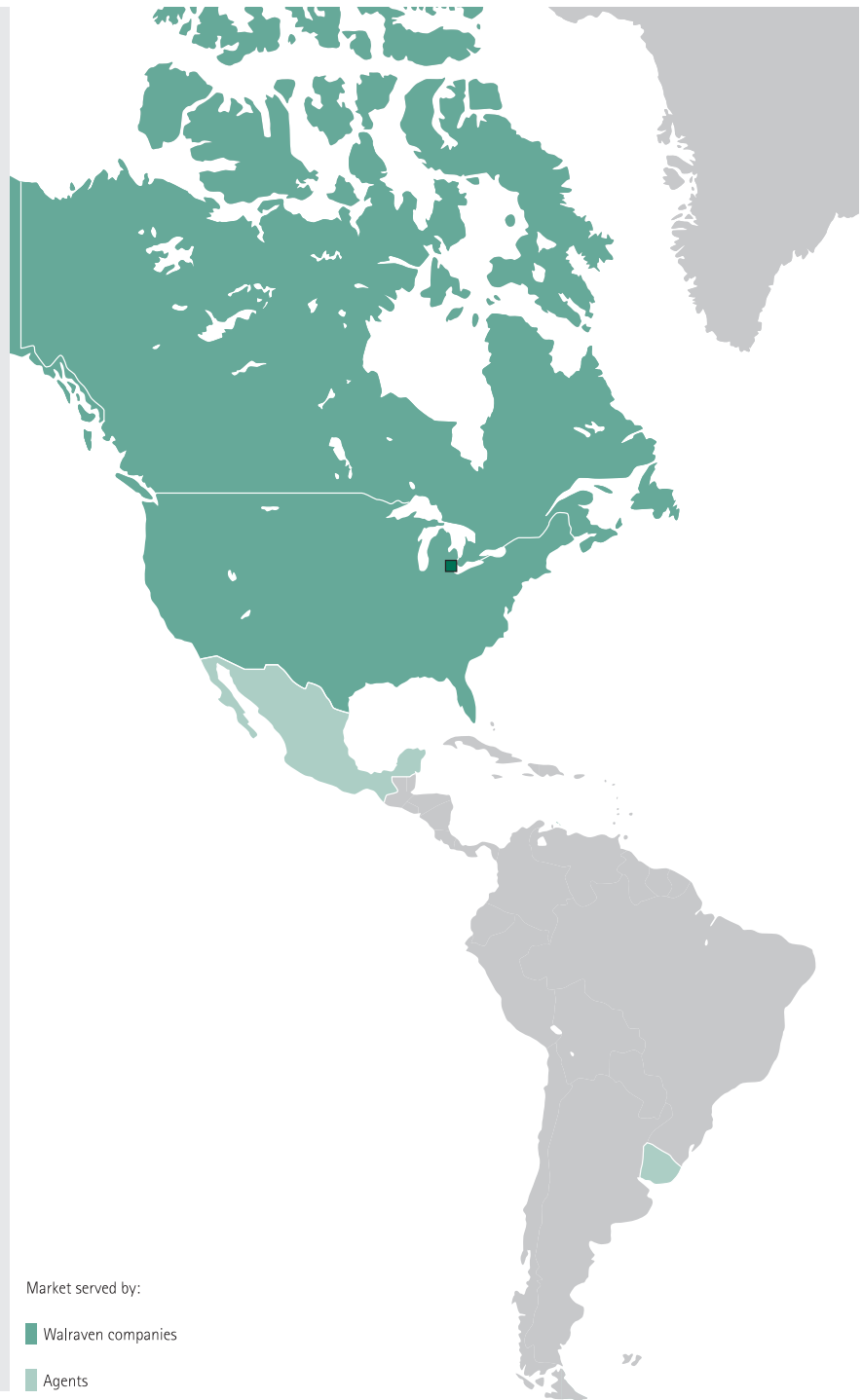
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Walraven Group

Walraven manufactures a wide range of fixing, fire protection and sanitary installation materials.

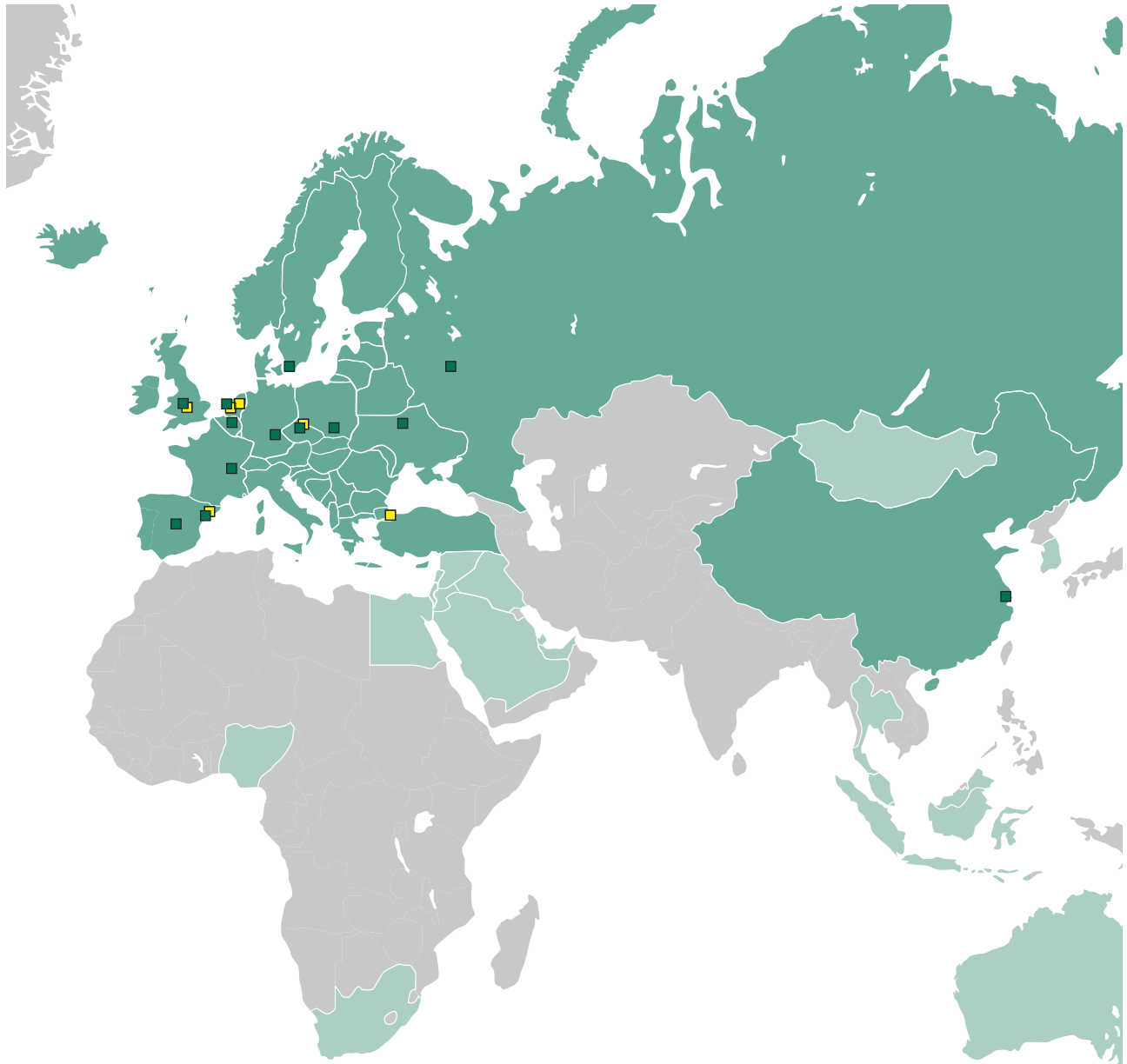
Since our foundation in 1942 we've expanded into a global organisation with over 800 employees throughout the world.

Our products are sold through leading distributors and used by thousands of installers across the world.



■ Sales companies

Mijdrecht (NL) J. van Walraven Holding B.V. Headquarters Walraven B.V. Netherlands - Scandinavia - Finland Walraven International Other countries J. van Walraven B.V.	Tienen (BE) Walraven BVBA Belgium - Luxembourg	Bayreuth (DE) Walraven GmbH Germany - Austria - Switzerland Italy - South East Europe	Grenoble (FR) Walraven France Eurl France	Banbury (UK) Walraven Ltd. United Kingdom - Ireland	Mladá Boleslav (CZ) Walraven s.r.o. Czech republic - Slovak republic
	Barcelona (ES) Isofix Walraven Iberia S.L. Spain - Portugal Headquarters for this area	Madrid (ES) Isofix Walraven Iberia S.L. Spain (area Madrid)	Walled Lake (US) Walraven, Inc. United States of America - Canada	Moscow (RU) Walraven LLC Russia	Shanghai (CN) Walraven Shanghai, Ltd. China



						■ Production companies
Kraków (PL) Walraven Sp. z o.o. Poland - Lithuania - Latvia - Estonia	Kyiv (UA) Walraven Ltd. Ukraine	Cista (CZ) Suchánek & Walraven s.r.o.	Horka (CZ) Suchánek & Walraven s.r.o.	Barcelona (ES) Isofix S.L.	Banbury (UK) Walraven Ltd.	
Malmö (SE) Walraven Nordic AB Sweden - Denmark - Norway - Finland - Iceland		Silivri - Istanbul (TR) Jefelex Plastik Kauçuk	Gramsbergen (NL) Loko Gramsbergen B.V.	Horka (CZ) SWO Tooling s.r.o.		

Quality

Production

The Walraven Group has production facilities in various countries, with modern machines which are often designed in-house. Each production company has its own speciality so that products can be manufactured in the most efficient manner.

Almost all of our tooling and moulds are produced in our own tool making facility. Walraven then manages the entire process - from product development to manufacture - and can quickly respond to developments in the market.

Innovation

The development of new products is always our priority. With our primary focus being on customer satisfaction. Think of comfort, time-saving during assembly and the highest degree of reliability when operational. A large number of innovations and patents is the result. Our innovation is not just limited to product development. Also our marketing is pushing the boundaries.

We develop and produce customer-specific or project-related products too. In addition, many of our standard products can be supplied in a special size or with a special surface treatment.

Quality

Our organization is ISO 9001:2008 certificated. This way we continuously improve operational processes, and thus the quality of the entire organization.

Our products meet the highest quality standards and are approved by many international institutes, such as:



Our fire protection products meet the highest international quality standards and are approved by many European certification institutes.



Our frames have been tested for load capacity and corrosion resistance in accordance with European standards.



RAL – Safe Connection

RAL–Quality hallmark

Walraven is one of the initiators of the 'Gütegemeinschaft Röhrbefestigung' (Safe Connection). The most important producers of pipe fixing systems have set up univocal product quality guidelines in this quality association. The 'Gütegemeinschaft Röhrbefestigung' has become acknowledged in 2003 by the RAL, the German institute for quality guarantees.

Benefits

The technical properties of the products, like the maximum safe working load, are established and published by means of a standardised measuring method. Within the measuring method the maximum allowed load is calculated, taking a maximum deflection into consideration.

With the RAL-mark the quality of the pipe fixing products, like clamps and fixing rails of the participating manufacturers becomes clear and are easily comparable.

Currently 4 measuring methods for the load capacity of pipe fixing products under normal temperatures have been published:

- pipe clamps (RAL-GZ 655/B)
- fixing rail (RAL-GZ 655/C)
- rail accessoires (RAL-GZ 655/D)
- cantilever arms (RAL-GZ 655/E)

Also 1 measuring method for the load capacity of pipe clamps during fire:

- pipe clamps (RAL-GZ 656)

The maximum safe working loads which are mentioned in the tables are based on:

- 1) A Walraven developed measuring method;
- 2) The measuring method prescribed in the testing prescriptions RAL-GZ 655 and RAL-GZ 656, which is set up by the 'Gütegemeinschaft Röhrbefestigung'. If the product is provided with the 'RAL-Gütezeichen', the test results are checked by an independent testing institute.

The 'RAL-Gütezeichen' is exclusively given to products which satisfy high quality standards and is an evidence of quality. This gives the users of pipe fixings certainty and trust!

Certified products are recognisable by:

















For additional information:

Gütegemeinschaft Röhrbefestigung e.V.
 Lerchfeldstraße 67
 D-86899 Landsberg am Lech
 Germany
 Tel. +49 (0)8191 - 94 41 68
 Fax +49 (0)8191 - 94 49 69
 Email: info@safe-connection.de
 Internet: www.safe-connection.de



RAL-GZ 655 and 656 Certified Products

									
		Part No.	Connection nut	Catalogue page	Dimension (mm)	RAL-GZ 655/B Cert. No.	Dimension (mm)	RAL-GZ 656 Cert. No.	
	BISMAT® Flash Zinc plated	337 3 XXX	M8	A 05 05	15 - 63	2010-23	15 - 63	2011-09	
		337 4 XXX	M8/10	A 05 05	15 - 63	2010-23	15 - 63	2011-09	
		-	-	-	-	-	-	-	-
	BISMAT® 2000 Zinc plated	341 3 OXX	M8	A 05 10	15 - 63	2010-22	15 - 63	2011-10	
		340 3 XXX	M8/10	A 05 10	15 - 63	2010-22	15 - 63	2011-10	
		340 3 XXX	M8/10	A 05 15	57 - 141	2005-08	57 - 114	2011-10	
	BISMAT® 2000 'S' Zinc plated	341 4 OXX	M8	A 05 20	15 - 63	2005-08	15 - 63	2011-11	
		340 4 OXX	M8/10	A 05 20	15 - 63	2005-08	15 - 63	2011-11	
		-	-	-	-	-	-	-	-
	BIS Bifix® 1301 Zinc plated	311 3 OXX	M8	A 05 30	11 - 85	2005-07	-	-	
		310 3 XXX	M8/10	A 05 30	11 - 141	2005-07	-	-	
		312 3 XXX	M10	A 05 35	11 - 219	2005-07	-	-	
	BIS 2S Clamps with Lining Zinc plated	333 3 XXX	M8	A 05 60	12 - 49	2010-12	-	-	
		334 3 XXX	M8/10	A 05 60	15 - 220	2010-12	-	-	
		-	-	-	-	-	-	-	-
	BIS HD1501 BIS UltraProtect® 1000	3313 8 OXX	M8/10	A 10 04	15 - 64	2011-12a	15 - 64	2011-14	
		3314 8 XXX	M10/12	A 10 04	65 - 227	2011-12a	65 - 227	2011-14	
		3316 8 XXX	M16	A 10 06	159 - 509	2011-12a	159 - 227	2011-14	
		3317 8 XXX	G½"	A 10 09	15 - 509	2011-12a	15 - 227	2011-14	
	BISMAT® 5000 Zinc plated	348 3 OXX	M8	A 25 05	16 - 50	2010-24	-	-	
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
	BIS Bifix® 5000 Zinc plated	348 3 OXX	M8	A 25 10	63 - 75	2005-11	-	-	
		348 3 XXX	M10	A 25 10	90 - 110	2005-11	-	-	
		-	-	-	-	-	-	-	-
	BIS Bifix® 300 Zinc plated	301 3 OXX	M8	B 05 05	15 - 76	2005-06	-	-	
		302 3 XXX	M10	B 05 15	18 - 219	2005-06	-	-	
		-	-	-	-	-	-	-	-
	BIS 2S Clamps Zinc plated	330 3 XXX	M8	B 05 25	15 - 169	2010-12	-	-	
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
	BIS HD500 BIS UltraProtect® 1000	3303 8 OXX	M8/10	B 10 04	15 - 71	2011-13a	15 - 71	2011-05	
		3304 8 XXX	M10/12	B 10 04	72 - 227	2011-13a	72 - 227	2011-05	
		3306 8 XXX	M16	B 10 06	159 - 509	2011-13a	-	-	
		3307 8 XXX	G½"	B 10 09	15 - 509	2011-13a	15 - 227	2011-05	
	BIS Bifix® 300 SSt. Stainless Steel	301 7 XXX	M8	M 10 05	72 - 118	2004-09	-	-	
		302 7 XXX	M10	M 10 05	62 - 219	2004-09	-	-	
		-	-	-	-	-	-	-	-

For the max. allowed load (Fa,z) per part number and RAL-certificate we refer to the product page or our webcatalogue on www.walraven.com.



							RAL-GZ	
							Cert. No.	
		Part No.	Dimension (mm)	For Rail	Catalogue page			
	BIS RapidRail® Fixing Rail Pre-galvanized	650 5 X00	WM0 (27 x 18 x 1,20)	-	H 05 05	655/C	2012-03	
		650 5 X01	WM1 (30 x 15 x 2,00)	-	H 05 05	655/C	2012-03	
		650 5 51X	WM1 (30 x 15 x 2,00)	-	H 05 05	655/C	2012-03	
		650 5 X15	WM15 (30 x 30 x 2,00)	-	H 05 05	655/C	2012-03	
		650 5 X02	WM2 (30 x 20 x 1,75)	-	H 05 05	655/C	2012-03	
		650 5 X30	WM30 (30 x 45 x 2,00)	-	H 05 05	655/C	2012-03	
	BIS RapidStrut® Fixing Rail Pre-galvanized	650 5 X24	41 x 21 x 1,5	-	I 05 05	655/C	2012-04	
		650 5 X22	41 x 21 x 2,0	-	I 05 05	655/C	2012-04	
		650 5 X25	41 x 21 x 2,5	-	I 05 05	655/C	2012-04	
		650 5 X44	41 x 41 x 1,5	-	I 05 05	655/C	2012-04	
		650 5 X42	41 x 41 x 2,0	-	I 05 05	655/C	2012-04	
		650 5 X45	41 x 41 x 2,5	-	I 05 05	655/C	2012-04	
	BIS RapidStrut® Fixing Rail Hot dip galvanized	650 1 X27	41 x 21 x 2,5	-	I 40 05	655/C	2012-05	
		650 1 X47	41 x 41 x 2,5	-	I 40 05	655/C	2012-05	
		-	-	-	-	-	-	
	BIS RapidRail® Stainless Steel Fixing Rail Stainless steel	650 7 002	WM2 (30 x 30 x 2,0)	-	M 20 05	655/C	2012-07	
		-	-	-	-	-	-	
		-	-	-	-	-	-	
	BIS RapidRail® Hammerfix Female Thread Zinc plated	652 0 020	M8	WM1, 2, 15, 30	H 15 15	655/D	2012-11	
		652 0 030	M10	WM1, 2, 15, 30	H 15 15	655/D	2012-11	
		-	-	-	-	-	-	
	BIS RapidRail® Ball Swivel Hangers Zinc plated	652 0 X00	M8	WM1, 2, 15, 30	H 15 20	655/D	2012-11	
		652 0 X10	M10	WM1, 2, 15, 30	H 15 20	655/D	2012-11	
		-	-	-	-	-	-	
	BIS RapidRail® Connector Zinc plated	654 3 001	200 mm	WM1, 2, 15, 30	H 20 05	655/D	2012-08	
		-	-	-	-	-	-	
		-	-	-	-	-	-	
	BIS RapidRail® T-Connector Zinc plated	658 4 090	-	WM1, 2, 15, 30	H 20 10	655/D	2012-08	
		-	-	-	-	-	-	
		-	-	-	-	-	-	
	BIS RapidRail® X-Connector Zinc plated	658 4 091	-	WM1, 2, 15, 30	H 20 10	655/D	2012-08	
		-	-	-	-	-	-	
		-	-	-	-	-	-	
	BIS RapidRail® Connectors 90° Zinc plated	658 4 00X	WM0 - 35	WM1, 2, 15, 30	H 20 15	655/D	2012-09	
		658 4 011	WM0 - 35	WM1, 2, 15, 30	H 20 15	655/D	2012-09	
		-	-	-	-	-	-	
	BIS RapidRail® Connectors 135° Zinc plated	658 4 05X	WM0 - 35	WM1, 2, 15, 30	H 20 20	655/D	2012-09	
		658 4 061	WM0 - 35	WM1, 2, 15, 30	H 20 20	655/D	2012-09	
		-	-	-	-	-	-	
	BIS RapidRail® Cross Connectors Zinc plated	658 4 150	27 x 18	WM0, 1, 15	H 20 25	655/D	2012-10	
		658 4 151	30 x 15	WM0, 1, 15	H 20 25	655/D	2012-10	
		658 4 152	30 x 20	WM0, 1, 15	H 20 25	655/D	2012-10	
	BIS RapidRail® Rail Suspension Bracket Zinc plated	679 3 008	M8	WM1, 2, 15, 30	H 20 40	655/D	2012-09	
		-	-	-	-	-	-	
		-	-	-	-	-	-	

RAL-GZ 655/C: for the max. allowed load (Fa,z) per part number and RAL-certificate we refer to the product page, the loading tables or our webcatalogue on www.walraven.com

RAL-GZ 655/D: for the max. allowed load (Fa,z) per part number and RAL-certificate we refer to the product page or our webcatalogue on www.walraven.com

Explanation Max. Allowed Load

Maximum allowed load:

From most of our products a maximum allowed load is included in the article tables. Stated values are determined by:

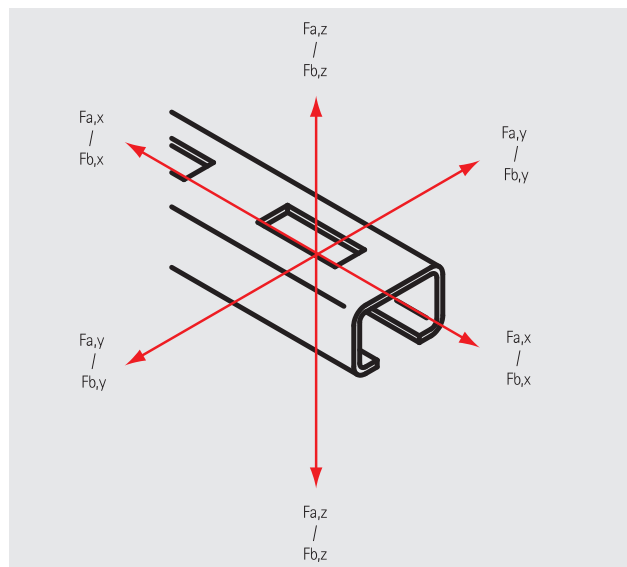
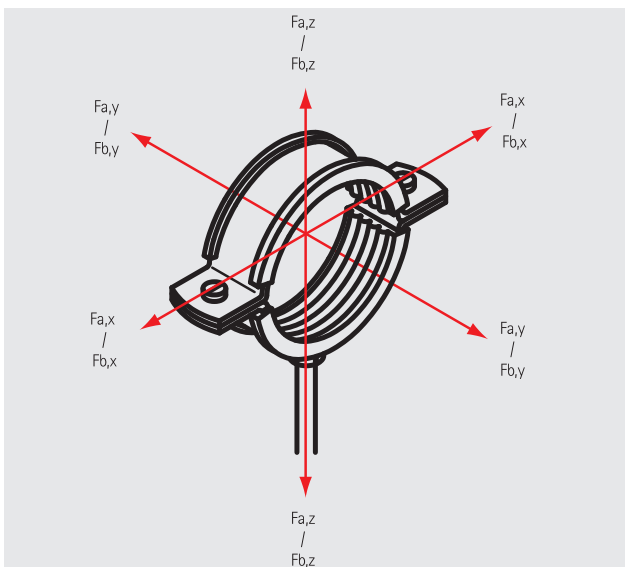
- a by Walraven developed measuring method
- the measuring method described in the testing prescriptions RAL-GZ 655, which is set up by the 'Gütegemeinschaft Rohrbefestigung'. If the product is provided with the 'RAL-Gütezeichen', the test results are checked by an independent testing institute.

For plastic clamps the breaking load is included.

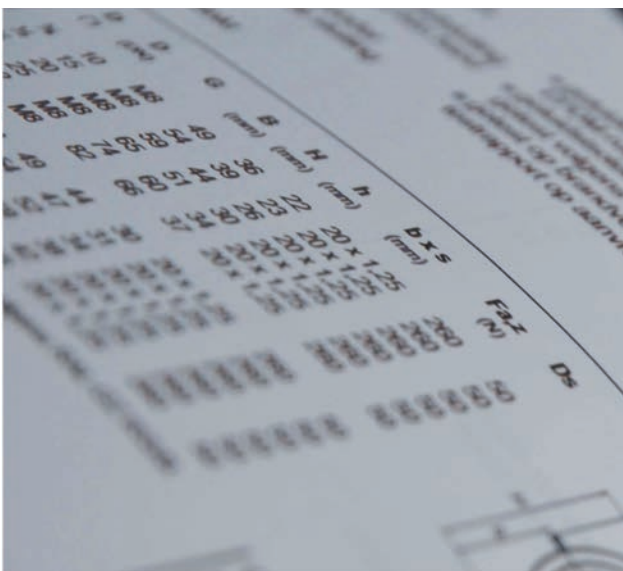
Force directions (F) x, y and z (at 20 °C)

Fa = maximum allowed load

Fb = breaking load



Explanation Article Tables



Packaging data

- Pack 1 = small packaging
- Pack 2 = large packaging
- BndS = bundle small
- BndL = bundle large
- App. = appearance (pieces, roll, meter)

Stock Codes

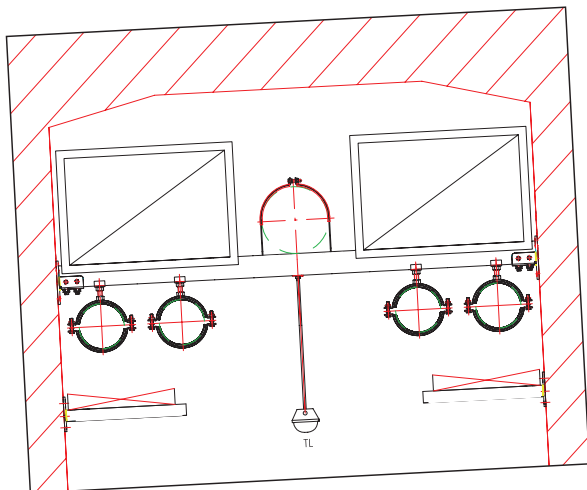
- = No stock article
- = Stock article

Most non stocked items are available in less than a week. Please call for up to date delivery times.

Technical Advisory Service



Walraven is proud to supply high quality innovative mechanical, electrical and fire systems together with a range of free value added services, which together offer our customers a complete solution.



Because we recognise that working with fixing and fire protection systems is becoming more and more complex we are delighted to offer all our customers a free comprehensive Technical Advisory service.

- Full product take-off service working directly from project plans/drawings
- Providing detailed quotations to deliver a cost effective solution, ensuring no shortages or wasteful surplus
- Product specification
- 3D modelling of products for BIM
- A range of fully tested anti-vibration and acoustic support solutions
- Specialised supports for complex issues including thermal expansion calculations
- Bespoke design bracketry solutions

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Or check out our Technical Support page:



walraven.com

BIS Metal Pipe Clamps with Lining

BISMAT® Flash	Part number	Dimensions / Techn. details				Pack
---------------	-------------	-----------------------------	--	--	--	------

Catalogue page A 05 05




- single screw clamp
- with BISMAT® Flash quick locking system
- clamp easy to close with one hand
- the locking screw can be secured without use of tools
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109
- optimised noise insulation due to soft closing without tools

337 4 018	15 - 18	3/8	M8/10	RAL ²	50	●
337 4 023	20 - 23	1/2	M8/10	RAL ²	50	●
337 4 028	25 - 28	3/4	M8/10	RAL ²	50	●
337 4 035	32 - 35	1	M8/10	RAL ²	50	●
337 4 043	40 - 43	1 1/4	M8/10	RAL ²	50	●
337 4 051	48 - 51	1 1/2	M8/10	RAL ²	50	●
337 4 056	53 - 56	-	M8/10	RAL ²	50	●
337 4 063	57 - 63	2	M8/10	RAL ²	50	●

RAL² = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.

For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BISMAT® Flash



Insert pipe Close clamp / push screw Done!

BISMAT® 2000	Part number	Dimensions / Techn. details				Pack
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Catalogue page A 05 10



- single screw clamp
- with BISMAT® quick locking system
- clamp easy to close with one hand
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109

340 3 018	15 - 18	3/8	M8/10	RAL ²	50	●
340 3 023	20 - 23	1/2	M8/10	RAL ²	50	●
340 3 028	25 - 28	3/4	M8/10	RAL ²	50	●
340 3 035	31 - 35	1	M8/10	RAL ²	50	●
340 3 043	40 - 43	1 1/4	M8/10	RAL ²	50	●
340 3 053	48 - 51	1 1/2	M8/10	RAL ²	50	●
340 3 054	53 - 56	-	M8/10	RAL ²	50	●
340 3 063	57 - 63	2	M8/10	RAL ²	50	●

RAL² = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.

For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BISMAT® 2000

Catalogue page A 05 15



- two-screw clamp
- with BISMAT® quick locking system
- from Ø 159 mm: with quick locking system
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109

Part number	Dimensions / Techn. details				Pack
340 3 070	64 - 70	-	M8/10	RAL ²	50 ○
340 3 080	73 - 80	2½	M8/10	RAL ²	50 ●
340 3 091	83 - 91	3	M8/10	RAL ²	25 ○
340 3 105	100 - 105	-	M8/10	RAL ²	25 ○
340 3 114	108 - 114	4	M8/10	RAL ²	25 ●
340 3 125	122 - 125	-	M8/10	RAL ¹	25 ○
340 3 141	133 - 141	5	M8/10	RAL ¹	25 ○
342 3 168	159 - 168	6	M10	-	10 ●
342 3 210	200 - 210	-	M10	-	10 ○
342 3 219	210 - 219	8	M10	-	10 ○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B.
 RAL2 = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.
 From Ø 159 mm: with quick locking system.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Bifix® 1301

Catalogue page A 05 35



- two-screw clamp
- with quick locking system
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109

Part number	Dimensions / Techn. details				Pack
312 3 015	11 - 15	¼	M10	RAL ¹	50 ●
312 3 018	14 - 18	⅜	M10	RAL ¹	50 ●
312 3 023	19 - 23	½	M10	RAL ¹	50 ●
312 3 029	24 - 29	¾	M10	RAL ¹	50 ●
312 3 035	30 - 35	1	M10	RAL ¹	50 ●
312 3 043	38 - 43	1¼	M10	RAL ¹	50 ●
312 3 049	44 - 49	1½	M10	RAL ¹	50 ●
312 3 056	50 - 56	-	M10	RAL ¹	50 ●
312 3 063	57 - 63	2	M10	RAL ¹	50 ●
312 3 067	64 - 67	-	M10	RAL ¹	50 ●
312 3 076	70 - 76	2½	M10	RAL ¹	25 ●
312 3 085	79 - 85	-	M10	RAL ¹	25 ●
312 3 091	86 - 91	3	M10	RAL ¹	25 ●
312 3 106	100 - 106	-	M10	RAL ¹	25 ●
312 3 116	108 - 116	4	M10	RAL ¹	25 ●
312 3 132	124 - 132	-	M10	RAL ¹	25 ●
312 3 141	133 - 141	5	M10	RAL ¹	25 ●
312 3 154	149 - 154	-	M10	-	25 ●
312 3 168	159 - 168	6	M10	RAL ¹	10 ●
312 3 194	186 - 194	-	M10	RAL ¹	15 ○
312 3 210	200 - 210	-	M10	RAL ¹	10 ●
312 3 219	210 - 219	8	M10	RAL ¹	10 ○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS 2S Clamps with Lining (M8, M8/10) Part number Dimensions / Techn. details Pack

Catalogue page A 05 60



- two-screw clamp
- screws secured with anti-loss washer
- also available with Triplo-nut (M8-M10-1/2")
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109

334 3 019	15 - 19	3/8	M8/10	RAL ¹	50	●
334 3 023	20 - 23	1/2	M8/10	RAL ¹	50	●
334 3 030	25 - 28	3/4	M8/10	RAL ¹	50	●
334 3 038	31 - 35	1	M8/10	RAL ¹	50	●
334 3 043	40 - 43	1 1/4	M8/10	RAL ¹	50	●
334 3 049	44 - 49	1 1/2	M8/10	RAL ¹	50	●
334 3 056	50 - 56	-	M8/10	RAL ¹	50	●
334 3 063	57 - 63	2	M8/10	RAL ¹	50	●
334 3 064	63 - 67	-	M8/10	RAL ¹	50	●
334 3 071	70 - 73	-	M8/10	RAL ¹	50	●
334 3 078	74 - 80	2 1/2	M8/10	RAL ¹	50	●
334 3 086	81 - 86	-	M8/10	RAL ¹	50	●
334 3 092	83 - 91	3	M8/10	RAL ¹	50	●
334 3 106	101 - 106	-	M8/10	RAL ¹	50	●
334 3 116	108 - 114	4	M8/10	RAL ¹	25	●
334 3 130	125 - 132	-	M8/10	RAL ¹	25	●
334 3 135	131 - 135	-	M8/10	RAL ¹	25	●
334 3 141	136 - 139	5	M8/10	RAL ¹	25	●
334 3 168	159 - 168	6	M8/10	RAL ¹	15	●
334 3 200	193 - 200	-	M8/10	RAL ¹	15	●
334 3 212	210 - 212	-	M8/10	RAL ¹	15	●
334 3 220	216 - 220	8	M8/10	RAL ¹	15	●

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Heavy Duty Clamps HD1501 (BUP1000) Part number Dimensions / Techn. details Pack

Catalogue page A 10 04



- two-part clamp with two locking bolts
- up to and including 5": locking nut is captive, hidden in plastic holder
- heavy design
- bolts secured with anti-loss washer
- with CO2 welded connection nut
- material: steel
- surface protection: BIS UltraProtect® 1000 system
- noise insulating lining, EPDM rubber, black
- also available: noise insulating lining of silicone rubber (reddish brown), heat resistant up to +200 °C (A 35 15)

3313 8 019	15 - 19	3/8	M8/10	RAL ²	25	●
3313 8 023	19 - 23	1/2	M8/10	RAL ²	25	●
3313 8 029	25 - 29	3/4	M8/10	RAL ²	25	●
3313 8 035	30 - 35	1	M8/10	RAL ²	25	●
3313 8 045	40 - 45	1 1/4	M8/10	RAL ²	25	●
3313 8 051	46 - 51	1 1/2	M8/10	RAL ²	25	●
3313 8 059	53 - 59	-	M8/10	RAL ²	25	●
3313 8 064	59 - 64	2	M8/10	RAL ²	25	●
3314 8 071	65 - 71	-	M10/12	RAL ²	25	●
3314 8 078	72 - 78	2 1/2	M10/12	RAL ²	25	●
3314 8 085	79 - 85	-	M10/12	RAL ²	25	●
3314 8 092	86 - 92	3	M10/12	RAL ²	25	●
3314 8 109	101 - 109	-	M10/12	RAL ²	25	●
3314 8 116	108 - 116	4	M10/12	RAL ²	25	●
3314 8 133	125 - 133	-	M10/12	RAL ²	25	●

BIS Heavy Duty Clamps HD1501 (BUP1000)

Part number	Dimensions / Techn. details				Pack
3314 8 140	132 - 140	5	M10/12	RAL ²	15 ●
3314 8 169	159 - 169	6	M10/12	RAL ²	15 ●
3314 8 188	178 - 188	-	M10/12	RAL ²	15 ●
3314 8 204	194 - 204	-	M10/12	RAL ²	15 ●
3314 8 213	203 - 213	-	M10/12	RAL ²	15 ●
3314 8 227	217 - 227	8	M10/12	RAL ²	2 ●

- age resistant lining
- sound insulating lining according DIN 4109

RAL2 = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.
For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Heavy Duty Clamps HD1501 (BUP1000)

Part number	Dimensions / Techn. details				Pack
3316 8 227	217 - 227	8	M16	RAL ²	2 ●
3316 8 250	240 - 250	-	M16	RAL ¹	2 ●
3316 8 275	265 - 275	10	M16	RAL ¹	2 ●
3316 8 325	315 - 325	12	M16	RAL ¹	2 ●
3316 8 364	354 - 364	14	M16	RAL ¹	2 ●
3316 8 408	398 - 408	16	M16	RAL ¹	2 ●
3316 8 458	448 - 458	18	M16	RAL ¹	2 ●
3316 8 509	499 - 509	20	M16	RAL ¹	2 ●

Catalogue page A 10 06



- two-part clamp with two locking bolts
- bolts secured with anti-loss washer
- with CO2 welded connection nut
- material: steel
- surface protection: BIS UltraProtect® 1000 system
- noise insulating lining, EPDM rubber, black
- age resistant lining
- sound insulating lining according DIN 4109

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B.
RAL2 = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.
For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BISMAT® 5000

Part number	Dimensions / Techn. details				Pack
348 3 018	16	M8	RAL ¹	50 ●	
348 3 023	20	M8	RAL ¹	50 ●	
348 3 028	25	M8	RAL ¹	50 ●	
348 3 035	32	M8	RAL ¹	50 ●	
348 3 043	40	M8	RAL ¹	50 ●	
348 3 053	50	M8	RAL ¹	50 ●	

Catalogue page A 25 05



- single screw clamp
- with BISMAT® quick locking system
- with removable spacer washers, making the clamp suitable for either location or tight fixing
- suitable for plastic pipe
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, green
- inner part of lining is flush to improve sliding of pipe in clamp
- sound insulating lining according DIN 4109

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B.
For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Bifix® 5000	Part number	Dimensions / Techn. details			Pack
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Catalogue page A 25 10



- two-screw clamp
- with quick locking system
- with removable spacer washers, making the clamp suitable for either location or tight fixing
- material: steel
- zinc plated
- noise insulating lining, EPDM rubber, green
- lining: very suitable for applications with plastic pipes
- inner part of lining is flush to improve sliding of pipe in clamp
- age resistant lining
- sound insulating lining according DIN 4109

348 3 067	63	M8	RAL ¹	50	●
348 3 075	75	M8	RAL ¹	50	●
348 8 018	16	M10	-	50	●
348 8 023	20	M10	-	50	●
348 8 029	25	M10	-	50	●
348 8 035	32	M10	-	50	●
348 8 043	40	M10	-	50	●
348 8 054	50	M10	-	50	●
348 8 061	56	M10	-	50	●
348 8 067	63	M10	-	50	●
348 8 076	75	M10	-	25	●
348 3 090	90	M10	RAL ¹	25	●
348 3 110	110	M10	RAL ¹	25	●
348 3 125	125	M10	-	25	●
348 3 160	160	M10	-	10	●

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BISMAT® SX Socket Clamps	Part number	Dimensions / Techn. details			Pack
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Catalogue page A 30 15





- two-screw clamp
- with quick locking system
- alternative for cast iron socket clamp or plastic drain pipes
- ideal for application in combination with BIS Stand pipe brackets (Part No. 432 3 XXX)
- material: steel
- zinc plated
- EPDM rubber lining, black
- age resistant lining
- sound insulating lining according DIN 4109

317 3 075	75	70	KA	10	○
317 3 078	78	70	SML / GA	10	○
317 3 085	83	80	SML / GA	10	○
317 3 116	110	100	KA / SML / GA	10	○
317 3 132	125	125	KA	10	○
317 3 141	137	125	SML / GA	10	○
317 3 168	160	150	KA / SML / GA	10	○
317 3 219	210	200	SML / GA	5	○

KA = Plastic drain pipe.
SML / GA = cast iron drain pipe.

BIS Metal Pipe Clamps

BIS Bifix® 300	Part number	Dimensions / Techn. details				Pack
Catalogue page B 05 15   <ul style="list-style-type: none"> ■ two-screw clamp ■ with quick locking system ■ material: steel ■ zinc plated 	302 3 022	18 - 22	1/2	M10	RAL ¹	50 ●
	302 3 030	26 - 30	3/4	M10	RAL ¹	50 ●
	302 3 034	32 - 34	1	M10	RAL ¹	50 ●
	302 3 042	38 - 42	1 1/4	M10	RAL ¹	50 ●
	302 3 051	47 - 51	1 1/2	M10	RAL ¹	50 ●
	302 3 060	54 - 60	-	M10	RAL ¹	50 ●
	302 3 068	62 - 68	-	M10	RAL ¹	50 ●
	302 3 076	72 - 76	2 1/2	M10	RAL ¹	50 ●
	302 3 085	79 - 85	-	M10	RAL ¹	50 ●
	302 3 089	85 - 89	3	M10	RAL ¹	50 ●
	302 3 094	90 - 94	-	M10	RAL ¹	50 ●
	302 3 105	100 - 105	-	M10	RAL ¹	50 ●
	302 3 111	106 - 111	-	M10	RAL ¹	25 ●
	302 3 118	110 - 118	4	M10	RAL ¹	25 ●
	302 3 125	118 - 125	-	M10	RAL ¹	25 ●
	302 3 127	122 - 127	-	M10	RAL ¹	25 ●
	302 3 134	129 - 134	-	M10	RAL ¹	25 ●
	302 3 144	139 - 144	5	M10	RAL ¹	25 ●
	302 3 151	146 - 151	-	M10	RAL ¹	25 ●
	302 3 155	150 - 155	-	M10	RAL ¹	25 ●
	302 3 162	157 - 162	-	M10	RAL ¹	25 ●
	302 3 169	164 - 169	6	M10	RAL ¹	25 ●
	302 3 180	172 - 180	-	M10	RAL ¹	15 ●
	302 3 190	180 - 190	-	M10	RAL ¹	15 ●
	302 3 200	194 - 200	-	M10	RAL ¹	15 ●
	302 3 219	212 - 219	8	M10	RAL ¹	15 ●
	302 3 250	245 - 250	-	M10	-	15 ○

RAL¹ = tested, certified and monitored by a third party according to RAL-GZ 655/B.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS 2S Clamps (M8/10)

Catalogue page B 05 25



- two-screw clamp
- screws secured with anti-loss washer
- material: steel
- zinc plated



Part number	Dimensions	Techn. details	Pack
330 3 017	15 - 17	3/8 M8/10 RAL ¹	50 ●
330 3 022	18 - 23	1/2 M8/10 RAL ¹	50 ●
330 3 030	25 - 28	3/4 M8/10 RAL ¹	50 ●
330 3 034	31 - 35	1 M8/10 RAL ¹	50 ●
330 3 042	40 - 43	- M8/10 RAL ¹	50 ●
330 3 045	41 - 45	1 1/4 M8/10 RAL ¹	50 ●
330 3 051	44 - 49	1 1/2 M8/10 RAL ¹	50 ●
330 3 060	50 - 56	- M8/10 RAL ¹	50 ●
330 3 064	58 - 62	2 M8/10 RAL ¹	50 ●
330 3 068	62 - 68	- M8/10 RAL ¹	50 ●
330 3 076	75 - 76	2 1/2 M8/10 RAL ¹	50 ●
330 3 085	79 - 85	- M8/10 RAL ¹	50 ●
330 3 089	85 - 89	3 M8/10 RAL ¹	50 ●
330 3 094	90 - 94	- M8/10 RAL ¹	50 ●
330 3 105	100 - 105	- M8/10 RAL ¹	50 ●
330 3 111	106 - 111	- M8/10 RAL ¹	25 ●
330 3 118	114 - 118	4 M8/10 RAL ¹	25 ●
330 3 125	118 - 125	- M8/10 -	25 ○
330 3 144	139 - 144	5 M8/10 RAL ¹	25 ●
330 3 169	164 - 169	6 M8/10 RAL ¹	25 ●

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Heavy Duty Clamps HD500 (BUP1000)

Catalogue page B 10 04



- two-part clamp with two locking bolts
- up to and including 5": locking nut is captive, hidden in plastic holder
- heavy design
- bolts secured with anti-loss washer
- with CO2 welded connection nut
- material: steel
- surface protection: BIS UltraProtect® 1000 system



Part number	Dimensions	Techn. details	Pack
3303 8 019	15 - 19	3/8 M8/10 RAL ²	25 ○
3303 8 023	19 - 23	1/2 M8/10 RAL ²	25 ●
3303 8 030	25 - 30	3/4 M8/10 RAL ²	25 ●
3303 8 036	31 - 36	1 M8/10 RAL ²	25 ●
3303 8 042	37 - 42	- M8/10 RAL ²	25 ●
3303 8 045	40 - 45	1 1/4 M8/10 RAL ²	25 ●
3303 8 052	47 - 52	1 1/2 M8/10 RAL ²	25 ●
3303 8 058	53 - 58	- M8/10 RAL ²	25 ●
3303 8 065	59 - 65	2 M8/10 RAL ²	25 ●
3303 8 071	66 - 71	- M8/10 RAL ²	25 ●
3304 8 078	72 - 78	2 1/2 M10/12 RAL ²	25 ●
3304 8 085	79 - 85	- M10/12 RAL ²	25 ●
3304 8 092	86 - 92	3 M10/12 RAL ²	25 ●
3304 8 106	98 - 106	- M10/12 RAL ²	25 ●
3304 8 116	108 - 116	4 M10/12 RAL ²	25 ●
3304 8 123	116 - 123	- M10/12 RAL ²	25 ●
3304 8 133	125 - 133	- M10/12 RAL ²	25 ●
3304 8 140	132 - 140	5 M10/12 RAL ²	25 ●

BIS Heavy Duty Clamps HD500 (BUP1000)

Part number	Dimensions / Techn. details				Pack
3304 8 154	148 - 154	-	M10/12	RAL ²	15 ●
3304 8 169	159 - 169	6	M10/12	RAL ²	15 ●
3304 8 183	173 - 183	-	M10/12	RAL ²	15 ●
3304 8 202	192 - 202	-	M10/12	RAL ²	15 ●
3304 8 219	208 - 219	-	M10/12	RAL ²	15 ●
3304 8 227	217 - 227	8	M10/12	RAL ²	2 ●

RAL2 = tested, certified and monitored by a third party according to RAL-GZ 655/B and RAL-GZ 656.

For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Heavy Duty Clamps HD500 (BUP1000)




Part number	Dimensions / Techn. details				Pack
3306 8 169	159 - 169	6	M16	RAL ¹	2 ●
3306 8 183	173 - 183	-	M16	RAL ¹	2 ●
3306 8 202	192 - 202	-	M16	RAL ¹	2 ●
3306 8 227	217 - 227	8	M16	RAL ¹	2 ●
3306 8 241	229 - 241	-	M16	RAL ¹	2 ●
3306 8 254	244 - 254	-	M16	RAL ¹	2 ●
3306 8 264	254 - 264	-	M16	RAL ¹	2 ●
3306 8 279	267 - 279	10	M16	RAL ¹	2 ●
3306 8 289	279 - 289	-	M16	RAL ¹	2 ●
3306 8 302	292 - 302	-	M16	RAL ¹	2 ●
3306 8 325	315 - 325	12	M16	RAL ¹	2 ●
3306 8 360	350 - 360	14	M16	RAL ¹	2 ○
3306 8 374	364 - 374	-	M16	RAL ¹	2 ○
3306 8 389	379 - 389	-	M16	RAL ¹	2 ○
3306 8 408	398 - 408	16	M16	RAL ¹	2 ○
3306 8 418	408 - 418	-	M16	RAL ¹	2 ○
3306 8 436	424 - 436	-	M16	RAL ¹	2 ○
3306 8 458	448 - 458	18	M16	RAL ¹	2 ○
3306 8 509	499 - 509	20	M16	RAL ¹	2 ○


Catalogue page B 10 06




- two-part clamp with two locking bolts
- heavy design
- bolts secured with anti-loss washer
- with CO2 welded connection nut
- material: steel
- surface protection: BIS UltraProtect® 1000 system
- also available: noise insulating lining of silicone rubber (reddish brown), heat resistant up to +200 °C (A 35 15)
- tested for fire safety


RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS Sprinkler Clamps TA41		Part number	Dimensions / Techn. details				Pack	
<p>Catalogue page B 12 15</p>   	<ul style="list-style-type: none"> one-part clamp for sprinkler pipes up to 8" (221 mm) with knurled nut for fixing to stud bolt or threaded rod material: steel clamp: pre-galvanized; nut: zinc plated with FM approval - certificate number 3024336 UL listed - certificate number VFXT.EX9140 	453 5 021	23	1/2	M10	FM, UL	100	○
	453 5 027	28	3/4	M10	FM, UL	100	○	
	453 5 034	35	1	M10	FM, UL	100	●	
	453 5 042	44	1 1/4	M10	FM, UL	100	●	
	453 5 048	50	1 1/2	M10	FM, UL	100	●	
	453 5 060	62	2	M10	FM, UL	100	●	
	453 5 076	77	2 1/2	M10	FM, UL	50	●	
	453 5 089	90	3	M10	FM, UL	50	●	
	453 5 114	115	4	M10	FM, UL	25	○	
	453 5 140	142	5	M12	FM, UL	20	○	
453 5 168	170	6	M12	FM, UL	15	○		
453 5 219	221	8	M12	FM, UL	10	○		



BIS 434 Clamps for PE-Pipe		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page B 35 25</p> 	<ul style="list-style-type: none"> two-screw clamp as guiding clamp for PE-Pipe for rigid fixing point fastening it is necessary to use metal clamp liners (Part No. 433 7 XXX) screws secured with anti-loss washer material: steel zinc plated 	434 3 032	32	25	M10	50	○
	434 3 040	40	32	M10	50	○	
	434 3 050	50	40	M10	50	○	
	434 3 056	56	50	M10	50	○	
	434 3 063	63	57	M10	50	○	
	434 3 075	75	70	M10	25	○	
	434 3 080	82	-	M10	25	○	
	434 3 090	90	80	M10	25	○	
	434 3 100	102	-	M10	25	○	
	434 3 110	110	100	M10	25	○	
	434 3 125	125	125	M10	25	○	
	434 3 140	140	-	M10	25	○	
	434 3 160	160	150	M10	25	○	
	434 3 200	200	200	M10	12	○	
	434 3 225	225	-	M10	12	○	
	434 3 250	250	250	M10	8	○	
	434 3 315	315	315	M10	8	○	

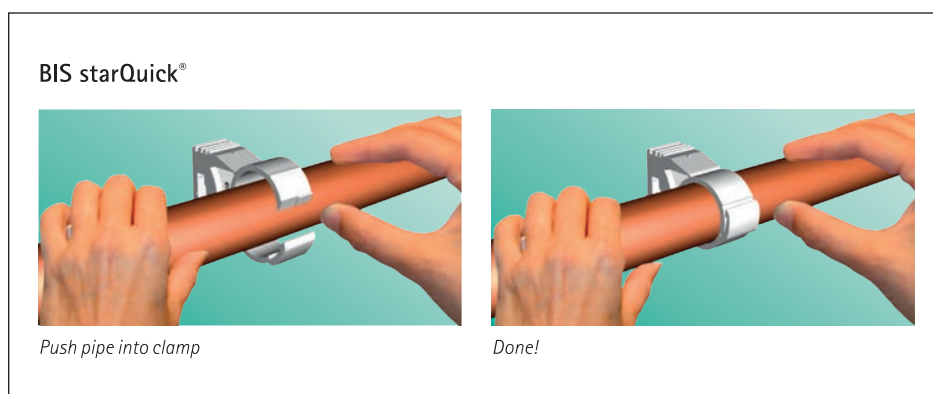
BIS Metal Liners 434 Clamp		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page B 35 30</p> 	<ul style="list-style-type: none"> two-part identical clamp liners to create a rigid fixing point, suitable for pipe clamp for PE pipe type 434 profiled 	433 7 040	40	32	25	○
	433 7 050	50	40	25	○	
	433 7 056	56	50	25	○	
	433 7 063	63	57	25	○	
	433 7 075	75	70	25	○	
	433 7 090	90	80	25	○	


BIS Metal Liners 434 Clamp	Part number	Dimensions / Techn. details		Pack
<ul style="list-style-type: none"> ■ material: chrome steel 1.4016 (AISI 430) 	433 7 110	110	100	25 ●
	433 7 125	125	125	25 ○
	433 7 160	160	150	25 ○
	433 7 200	200	200	10 ○
	433 7 250	250	250	10 ○
	433 7 315	315	300	10 ○

BIS Lining 434 Clamp	Part number	Dimensions / Techn. details		Pack
Catalogue page B 35 35  <ul style="list-style-type: none"> ■ to be used in combination with BIS Clamp 434 up to and including D = 160 mm ■ material: PVC (polyvinylchloride), black (with small addition of plasticizers) ■ temperature resistance up to +55 °C 	438 9 930	10 m	30 x 1.5	10 ○

BIS Plastic Pipe Clamps

BIS starQuick® Clamps (Grey)		Part number	Dimensions / Techn. details				Pack	
<p>Catalogue page C 05 05</p>  	<ul style="list-style-type: none"> one-part clamp clamp closes by applying pressure to the pipe for outdoor use and installations in swimming pool environments, chemical factories, zinc factories, etc. due to a patented profile it is possible to tack several clamps to each other material: modified PA6 (polyamide), grey (according to RAL 7035) resistant to UV, ageing, oil and petrol no corrosion, recyclable, halogen free temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C 	085 4 010	10 - 12	1/8	6	SQ-10	100	○
		085 4 012	12 - 14	1/4	8	SQ-12	100	○
		085 4 015	14 - 16	-	-	SQ-15	100	●
		085 4 018	16 - 20	3/8	10	SQ-17	100	●
		085 4 022	20 - 23	1/2	15	SQ-20	50	●
		085 4 028	24 - 28	3/4	20	SQ-25	50	●
		085 4 031	28 - 32	-	-	SQ-28	50	●
		085 4 035	32 - 35	1	25	SQ-32	50	●
		085 4 038	35 - 40	-	-	SQ-36	25	○
		085 4 042	40 - 44	1 1/4	32	SQ-40	25	●
		085 4 050	44 - 50	-	-	SQ-47	25	○
		085 4 054	48 - 55	1 1/2	40	SQ-51	15	○
		085 4 063	59 - 65	2	50	SQ-59	15	○



BIS starQuick® Duo Wallplates		Part number	Dimensions / Techn. details		Pack	
<p>Catalogue page C 05 20</p> 	<ul style="list-style-type: none"> for fixing of two pipes with BIS starQuick® Clamps suitable for BIS starQuick® Clamps up to SQ-20 the distance between the pipe and the wall is equal to that of a single clip material: modified PA6 (polyamide), grey or white 	085 4 000	-	Grey (RAL 7035)	100	●
		085 4 300	With hammer-in screw	Grey (RAL 7035)	50	○

Hammer-in screw: suitable for fixing into concrete, aerated concrete, brick.

BIS starQuick® Duo Wallplates

Part number

Dimensions / Techn. details

Pack

- resistant to UV, ageing, oil and petrol
- no corrosion, recyclable, halogen free
- temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C

BIS starQuick® Threaded Rod Adaptors

Part number

Dimensions / Techn. details

Pack

Catalogue page C 05 25



- to fix a BIS starQuick® Clamp to a threaded rod
- to add pipework quickly and simply to an existing installation
- suitable for SQ-10 up to SQ-51
- material: PA (polyamide), grey (according to RAL 7035)
- resistant to UV, ageing, oil and petrol
- no corrosion, recyclable, halogen free
- temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C

085 4 356

SQ10 - SQ51

M6

100 ○

085 4 358

SQ10 - SQ51

M8

100 ○

BIS starQuick® Distance Block

Part number

Dimensions / Techn. details

Pack

Catalogue page C 05 30



- for clamp fixing with a distance to the structure
- for screwing a clip to a distance block, use a screw of at least 55 mm
- suitable for SQ-10 up to SQ-36
- a BIS starQuick® Clip can easily be stacked to a distance block
- for a larger stand off, distance blocks can be clicked together

085 4 510

25 ●

BIS starQuick® Hammer-in Screw		Part number	Dimensions / Techn. details	Pack
Catalogue page C 05 35	<ul style="list-style-type: none"> for fixing of BIS starQuick® Clamps without nut suitable for fixing onto concrete, aerated concrete, brick material: screw made of steel, plug made of PA (polyamide), grey 	085 4 301	40 mm Ø 6 mm	25 ○
				
BIS starQuick® Sprint Screw		Part number	Dimensions / Techn. details	Pack
Catalogue page C 05 40	<ul style="list-style-type: none"> for fixing of BIS starQuick® Clamps without nut material: steel, chromated 	085 4 302	45 mm	100 ○
				
BIS starQuick® Rail		Part number	Dimensions / Techn. details	Pack
Catalogue page C 05 45	<ul style="list-style-type: none"> for fixing of two or more pipes with BIS starQuick® Clamps without nut the BIS starQuick® Clamp is fixed to the rail by mean of the BIS starQuick® Rail Adaptor (Part No. 085 4 313) material: PVC (polyvinylchloride), grey (according to RAL 7035) 	085 4 316 085 4 325	150 mm 1 m	50 ○ 25 ●
				
BIS starQuick® Rail Adaptor		Part number	Dimensions / Techn. details	Pack
Catalogue page C 05 50	<ul style="list-style-type: none"> suitable for BIS starQuick® Clamps up to SQ-32 for fixing of a BIS starQuick® Clamp (without nut) on a BIS starQuick® Rail or on a Strut-Adaptor (Part No. 085 4 331) material: modified PA6 (polyamide), grey (according to RAL 7035) resistant to UV, ageing, oil and petrol 	085 4 313	BIS starQuick®	20 ●
				

BIS starQuick® Rail Adaptor	Part number	Dimensions / Techn. details	Pack
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- no corrosion, recyclable, halogen free
- temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C

BIS starQuick® Rail Plug	Part number	Dimensions / Techn. details	Pack
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Catalogue page C 05 55



- for fixing of BIS starQuick® Rail
- pre-drill hole Ø 6 mm and insert plug
- material: modified PA6 (polyamide), grey (according to RAL 7035)
- resistant to UV, ageing, oil and petrol
- no corrosion, recyclable, halogen free
- temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C

085 4 314	30 mm	BIS starQuick®	Ø 6 mm	50	○
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BIS starQuick® Universal Rail Adaptor	Part number	Dimensions / Techn. details	Pack
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Catalogue page C 05 57



- for fixing BIS starQuick® Clamps to BIS RapidRail® or Strut Rail
- to add pipework quickly and simply to an existing installation
- suitable for SQ-10 up to SQ-51
- suitable for WM0, 1, 15, 2, 30, 35 + Strut
- material: modified PA6 (polyamide), grey (according to RAL 7035)
- resistant to UV, ageing, oil and petrol
- no corrosion, recyclable, halogen free
- temperature resistance from approx. -40 °C to approx. +90 °C (constant); short to approx. +130 °C

085 4 332	WM0 - 35 + Strut	50	○
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BIS starQuick® Strut Adaptor		Part number	Dimensions / Techn. details		Pack
Catalogue page C 05 60	<ul style="list-style-type: none"> ■ suitable for BIS starQuick® Clamps up to SQ-32 ■ for fixing of a BIS starQuick® Clamp on Strut Rail (e.g. BIS RapidStrut®) ■ the BIS starQuick® Clamp must be fixed to the Strut Adaptor by means of a Rail Adaptor (included) ■ material: POM (polyoxymethylene), grey (according to RAL 7035) 	085 4 331	Strut		100 ○





BIS starQuick® Fixing Nuts		Part number	Dimensions / Techn. details		Pack
Catalogue page C 05 65	<ul style="list-style-type: none"> ■ to make a threaded connection in a BIS starQuick® Clamp ■ entirely integrated in clamp (not protruding) ■ material: PC (polycarbonate), grey or white ■ no corrosion ■ temperature resistance from approx. -35 °C to approx. +110 °C (constant); short to approx. +125 °C 	085 4 006	M6	Grey (RAL 7035)	100 ●
		085 4 308	M8	Grey (RAL 7035)	100 ○



BIS starQuick® Push Plug		Part number	Dimensions / Techn. details		Pack
Catalogue page C 05 75	<ul style="list-style-type: none"> ■ for fixing of a BIS starQuick® Clamp or other clamp with thread connection M6 ■ pre-drill hole Ø 6 mm and insert plug 	610 1 063	M6	30 mm	50 ○



BIS starQuick® Hammerfix		Part number	Dimensions / Techn. details		Pack
Catalogue page C 05 80 	<ul style="list-style-type: none"> Part No. 085 4 338: for fixing of a BIS starQuick® Clamp on steel rail with a 15 mm slot (e.g. WM0, 1, 15, 2, 30 or 35) Part No. 085 4 348: for fixing of a BIS starQuick® Clamp on Strut Rail (e.g. BIS RapidStrut®) material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green zinc plated 	085 4 338	M8	WM0 - 35	50 ○
		085 4 348	M8	Strut	25 ○

BIS PVC Saddles		Part number	Dimensions / Techn. details		Pack
Catalogue page C 35 05  <ul style="list-style-type: none"> one-part saddle by design, the pipe is separated from underground material: hard PVC (polyvinylchloride), grey or white UV-stabilized 	180 0 025	25	Grey (RAL 7001)	50 ○	
	180 0 032	32	Grey (RAL 7001)	50 ○	
	180 0 040	40	Grey (RAL 7001)	50 ○	
	180 0 050	50	Grey (RAL 7001)	50 ○	
	180 0 063	63	Grey (RAL 7001)	50 ○	
	180 0 070	70	Grey (RAL 7001)	50 ○	
	180 0 075	75	Grey (RAL 7001)	50 ○	
	180 0 080	80	Grey (RAL 7001)	50 ○	
	180 0 090	90	Grey (RAL 7001)	50 ○	
	180 0 100	100	Grey (RAL 7001)	25 ○	
	180 0 110	110	Grey (RAL 7001)	25 ○	
	180 0 125	125	Grey (RAL 7001)	25 ○	

Phenblox® – Phenolic Insulation Blocks



A = BIS Phenblox®

B < 125mm =
BIS 2S Clamps (M8/10)

B > 125mm =
BIS Bifix® 300 (M10)

C = BIS Heavy Duty
Clamps HD500 (M8/10,
M10/12, M16, (1/2")
(BUP1000)

D = Split band clip

Pipe Nb	Size mm	Size Cu	Type	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm
-	-	15	A	8901015015	8901020015	8901025015	8901030015	8901040015	8901050015
			B	3303045	3303060	3303068	3303076	3303094	3303118
			C	33038045	33038058	33038065	33048078	33048106	33048116
			D	B4093046	B4093056	B4093066	B4093077	B4093096	B4093117
15	21	22	A	8901015021	8901020021	8901025021	8901030021	8901040021	8901050021
			B	3303051	3303064	3303076	3303085	3303105	3303125
			C	33038052	33038065	33038071	33048085	33048106	33048123
			D	B4093053	B4093063	B4093073	B4093081	B4093100	B4093122
20	27	28	A	8901015027	8901020027	8901025027	8901030027	8901040027	8901050027
			B	3303060	3303068	3303085	3303089	3303111	3023127
			C	33038058	33038071	33048078	33048092	33048106	33048133
			D	B4093063	B4093070	B4093077	B4093089	B4093109	B4093127
25	34	35	A	8901015034	8901020034	8901025034	8901030034	8901040034	8901050034
			B	3303068	3303076	3303085	3303094	3303118	3023134
			C	33038065	33048078	33048085	33048092	33048116	33048140
			D	B4093066	B4093077	B4093085	B4093096	B4093117	B4093139
32	42	42	A	8901015042	8901020042	8901025042	8901030042	8901040042	8901050042
			B	3303076	3303085	3303094	3303105	3303125	3023144
			C	33048078	33048085	33048092	33048106	33048123	33048133
			D	B4093073	B4093083	B4093092	B4093103	B4093122	B4093134
40	48	-	A	8911015048	8911020048	8911025048	8911030048	8911040048	8911050048
			B	3303076	3303089	3303105	3303111	3023134	3023151
			C	33048078	33048092	33048106	33048116	33048133	33048154
			D	B4093081	B4093089	B4093100	B4093109	B4093132	B4093152
-	-	54	A	8911015054	8911020054	8911025054	8911030054	8911040054	8911050054
			B	3303089	3303094	3303105	3303118	3023134	3023155
			C	33048085	33048092	33048106	33048116	33048140	33048154
			D	B4093089	B4093096	B4093106	B4093114	B4093139	B4093155
50	60	-	A	8911015060	8911020060	8911025060	8911030060	8911040060	8911050060
			B	3303089	3303105	3303111	3303125	3023144	3023162
			C	33048092	33048106	33048116	33048123	33048140	33048169
			D	B4093092	B4093103	B4093114	B4093122	B4093143	B4093163
-	-	66	A	8911015066	8911020066	8911025066	8911030066	8911040066	8911050066
			B	3303094	3303105	3303118	3023127	3023151	3023169
			C	33048106	33048106	33048116	33048133	33048154	33048169
			D	B4093096	B4093109	B4093117	B4093127	B4093148	B4093168

Wood blocks, Calcium Vermiculite and Calcium Silicate also available.



A = BIS Phenblox®

B < 125mm =
BIS 2S Clamps (M8/10)

B > 125mm =
BIS Bifix® 300 (M10)

C = BIS Heavy Duty
Clamps HD500 (M8/10,
M10/12, M16, (1/2\"/>

D = Split band clip

Pipe Nb	Size mm	Size Cu	Type	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm
65	76	76	A	8911015076	8911020076	8911025076	8911030076	8911040076	8911050076
			B	3303111	3303118	3023127	3023144	3023155	3023180
			C	33048106	33048116	33048133	33048140	33048154	33048183
			D	B4093106	B4093117	B4093127	B4093139	B4093159	B4093176
80	89	-	A	8911015089	8911020089	8911025089	8911030089	8911040089	8911050089
			B	3303125	3023134	3023144	3023151	3023169	3023190
			C	33048123	33048133	33048140	33048154	33048169	33048202
			D	B4093122	B4093132	B4093139	B4093152	B4093172	B4093190
-	-	108	A	8911015108	8911020108	8911025108	8911030108	8911040108	8911050108
			B	3023144	3023151	3023162	3023169	3023190	3023219
			C	33048140	33048154	33048169	33048169	33048202	33048219
			D	B4093139	B4093148	B4093159	B4093168	B4093190	B4093212
100	114	-	A	8911015114	8911020114	8911025114	8911030114	8911040114	8911050114
			B	3023144	3023155	3023169	3023180	3023190	3023219
			C	33048140	33048154	33048169	33048183	33048202	33048219
			D	B4093143	B4093155	B4093168	B4093176	B4093196	B4093216
-	-	133	A	8911015133	8911020133	8911025133	8911030133	8911040133	8911050133
			B	3023169	3023180	3023180	3023190	3023219	N/A
			C	33048169	33048183	33048183	33048202	33048219	33068241
			D	B4093163	B4093172	B4093183	B4093193	B4093216	B4093236
125	140	-	A	8911015140	8911020140	8911025140	8911030140	8911040140	8911050140
			B	3023169	3023180	3023190	3023200	3023219	N/A
			C	33048169	33048183	33048202	33048202	33068227	33068254
			D	B4093172	B4093180	B4093190	B4093202	B4093220	B4093240
-	-	159	A	8911015159	8911020159	8911025159	8911030160	8911040159	8911050159
			B	3023190	3023200	3023219	3023219	N/A	N/A
			C	33048202	33048202	33048219	33048219	33068254	33068279
			D	B4093190	B4093202	B4093212	B4093220	B4093240	B4093260
150	168	-	A	8911215168	8911220168	8911225168	8911230168	8911240168	8911250168
			B	3023200	3023219	3023219	N/A	N/A	N/A
			C	33048202	33048219	33048219	33068227	33068254	33068279
			D	B4093202	B4093212	B4093220	B4093232	B4093250	B4093270

Wood blocks, Calcium Vermiculite and Calcium Silicate also available.

BIS Fixing Points and Sliding Devices

BIS dB-FiX® 80 Fixing Point Assembly	Part number	Dimensions / Techn. details	Pack
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Catalogue page E 05 20



- noise insulating fixing point for pipes up to Ø 2" (clamp BIS HD500 Ø 59 - 65 mm)
- very stable

669 3 008	M10	10
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BIS dB-FiX® 200 Fixing Point Assembly	Part number	Dimensions / Techn. details	Pack
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Catalogue page E 05 25



- noise insulating fixing point for pipes up to Ø 8" (clamp BIS HD500 Ø 217 - 227 mm)
- very stable
- material: steel
- zinc plated
- noise insulation by moulded EPDM rubber
- sound insulating lining according DIN 4109

669 3 020	M12	5
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BIS dB-FiX® 80 / 200 Mounting Kit	Part number	Dimensions / Techn. details	Pack
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Catalogue page E 05 40



- kit for pipe fixing between 2 BIS dB-FiX® Fixpoint Assemblies
- clamps fixed to plates by their flanges
- suitable for all diameters and specially for clamps > Ø 114 mm
- also used if extra stability is required
- space saving
- material: steel
- zinc plated
- consists of:
 - 2 Mounting plates
 - 4 Washers Ø 12/25 mm
 - 4 Washers Ø 12/35 mm
 - 4 Hexagon nuts M10
 - 4 Hexagon nuts M12

669 3 100	275.5	5.0	14.0	225.5	1
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BIS Silentbloc		Part number	Dimensions / Techn. details	Pack
Catalogue page E 05 05	<ul style="list-style-type: none"> for vibration free fixing of devices to eg cantilever arms suitable for WM1, 15, 2, 30 and/or Strut material: vulcanized rubber, black; metal parts zinc plated sound insulating lining according DIN 4109 	412 5 009	M8 WM1 - 30 + Strut	50



412 5 009

BIS Fix Console		Part number	Dimensions / Techn. details	Pack
Catalogue page E 05 50	<ul style="list-style-type: none"> fix point for high loads can be fitted with up to 3 clamps (up to and including 10") or 2 clamps (12") adjustable pipe height and fall slotted holes in the console enable adjustment on both sides ideal as fix point for insulated pipes in combination with BIS Wooden Blocks and Clamps (Part Nr. B25X 0 XXX) material: steel 1.0332 zinc plated 	669 3 206	Console	1




Note! Console, Clamps and Anchors are to be ordered separately.


BIS Fix Console 'Heavy'		Part number	Dimensions / Techn. details	Pack
Catalogue page E 05 55	<ul style="list-style-type: none"> fix point for high loads can be fitted with up to 2 clamps adjustable pipe height and fall slotted holes in the console enable adjustment on both sides ideal as fix point for insulated pipes in combination with BIS Wooden Blocks and Clamps (Part Nr. B25X 0 XXX) material: steel 1.0332 zinc plated 	669 3 208	Console 'Heavy'	1




Note! Console, Clamps and Anchors are to be ordered separately.

BIS Ball Swivel Hangers		Part number	Dimensions / Techn. details			Pack
Catalogue page E 10 05  <ul style="list-style-type: none"> ■ recommended for metal pipes up to DN 50, plastic pipes up to DN 100 ■ for fixing to slide nut or on clamps ■ with inspection hole to check screw-in depth (attention: when the threaded rod is screwed-in too deep, the ball swivel is blocked) ■ screw-in depth is continuously variable ■ material: steel ■ zinc plated 		664 2 008	M8	M8	49 mm	50 ●
		664 2 010	M10	M10	49 mm	50 ●
		664 4 010	M10	M10	64 mm	50 ●
		664 2 108	M8	M8	74 mm	25 ○
		664 2 110	M10	M10	74 mm	25 ●
		664 2 112	M12/M12	-	90 mm	10 ●

Please note. Always use 2 ball swivel hangers (see application picture). The maximum length change that can be dealt with, depends on the fixing distance (ceiling - pipe). The height difference that occurs as a result, needs to be taken into consideration. To be used in combination with BIS RapidRail® or BIS RapidStrut® Ball Swivel Hangers.

BIS Expansion Joints		Part number	Dimensions / Techn. details			Pack
Catalogue page E 10 15  <ul style="list-style-type: none"> ■ for guiding linear expansion or contraction ■ Part No. 666 2 3XX: threaded connection boss ■ Part No. 665 3 3XX: bolt and nut CO2 welded ■ material: steel ■ zinc plated 		666 2 308	M8	M8		50 ○
		666 2 310	M10	M10		50 ●
		665 3 308	M8	M8/10		50 ○
		665 3 310	M10	M8/10		50 ●

BIS Expansion Devices		Part number	Dimensions / Techn. details			Pack
Catalogue page E 10 20  <ul style="list-style-type: none"> ■ for guiding linear expansion or contraction ■ slots at 90° to each other to simplify fixing ■ material: metal parts made of steel; plastic parts made of POM (polyoxymethylene) ■ friction coefficient: $\mu_0 = 0.18 - \mu = 0.14$ ■ zinc plated ■ temperature resistance up to +120 °C 		666 3 310	Single	M8/10		5 ○
		666 3 312	Single	M10/12		5 ●
		666 3 316	Single	M16		5 ○

BIS Expansion Devices

Catalogue page E 10 22



- for guiding linear expansion or contraction
- material: metal parts made of steel; plastic parts made of POM (polyoxymethylene)
- Part no. 666 3 416: material: metal parts made of steel; plastic parts made of PPS (polyamphenylensulfid)
- friction coefficient: $\mu_0 = 0.18 - \mu = 0.14$
- zinc plated
- temperature resistance up to +120 °C
- Part No. 666 3 416: temperature resistance up to +240 °C

Part number	Dimensions / Techn. details		Pack
666 3 410	Single	M8/10	50 ●
666 3 412	Single	M10/12	10 ●
666 3 416	Single	M12/16	10 ○
666 3 210	Double	M10/12	10 ●

BIS Expansion Guide Assemblies (FG)

Catalogue page E 10 25




- for guiding linear expansion or contraction
- wall holder with guiding made of PTFE (Teflon®); the tube slides through the guide fixing bracket with minimum friction
- tubes are tapped with different sized threads on opposing faces
- material: steel
- zinc plated

Part number	Dimensions / Techn. details			Pack
666 3 610	FG1	M8/10	Ø 13	5 ●
666 3 612	FG2	M10/12	Ø 13	5 ○
666 3 813	FG3	Ø 13.0 mm	23 x 13	5 ●

Fa,z is total functional load.

BIS Suspension Components for Air Ducts

BIS Aero®	Part number	Dimensions / Techn. details	Pack		
<p>Catalogue page F 05 03</p>  <ul style="list-style-type: none"> ■ with quick locking system ■ rubber lining is conjoined with the clamp (lining stays attached when sliding the spiral duct) ■ material: pipe clamp made of steel, pre-galvanized ■ noise insulating lining made of TPE rubber, black 	411 5 080	80	M8	25	○
	411 5 100	100	M8	25	○
	411 5 125	125	M8	20	○
	411 5 140	140	M8	20	○
	411 5 150	150	M8	20	○
	411 5 160	160	M8	20	○
	411 5 180	180	M8	20	○
	411 5 200	200	M8	20	●
	411 5 225	225	M8	20	○
	411 5 250	250	M8	20	●
	411 5 280	280	M8	25	○
	411 5 300	300	M8	25	○
	411 5 315	315	M8	25	○
	411 5 355	355	M8	25	○
	411 5 400	400	M8	20	○
	411 5 450	450	M8/10	3	○
	411 5 500	500	M8/10	3	○
	411 5 560	560	M8/10	3	○
	411 5 600	600	M8/10	3	○
	411 5 630	630	M8/10	3	○
	411 5 710	710	-	3	○
	411 5 800	800	-	3	○
	411 5 900	900	-	3	○
411 5 999	1,000	-	3	○	
411 5 997	1,120	-	3	○	
411 5 998	1,250	-	3	○	

D ≥ 450 mm locking: 2 hexagon head bolts with nut.
 D ≥ 710 mm without connection nut.

BIS Support Brackets Rectangular Ductwork

Catalogue page F 05 15



- for fixing of rectangular air ducts
- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated
- sound insulating lining according DIN 4109

Part number	Dimensions / Techn. details	Pack
412 5 001	L	50 ○
412 5 003	Z	50 ○

BIS Support Brackets Round Ductwork

Catalogue page F 05 20



- for fixing of round air ducts
- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated
- sound insulating lining according DIN 4109

Part number	Dimensions / Techn. details	Pack
412 5 005	A	50 ○

BIS Rubber Absorption Pieces

Catalogue page F 05 25

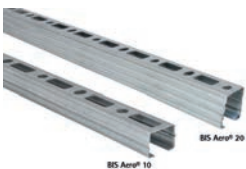


- noise insulating element
- e.g. for noise insulating suspension of fixing rail in combination with threaded rod M10
- material: metal parts made of steel; silent block made of TPE rubber, black
- zinc plated

Part number	Dimensions / Techn. details	Pack
412 5 007	M	100 ○
412 5 008	F	100 ●
412 5 006	M + F	50 ●

BIS Aero® Rail

Catalogue page F 10 05



- 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

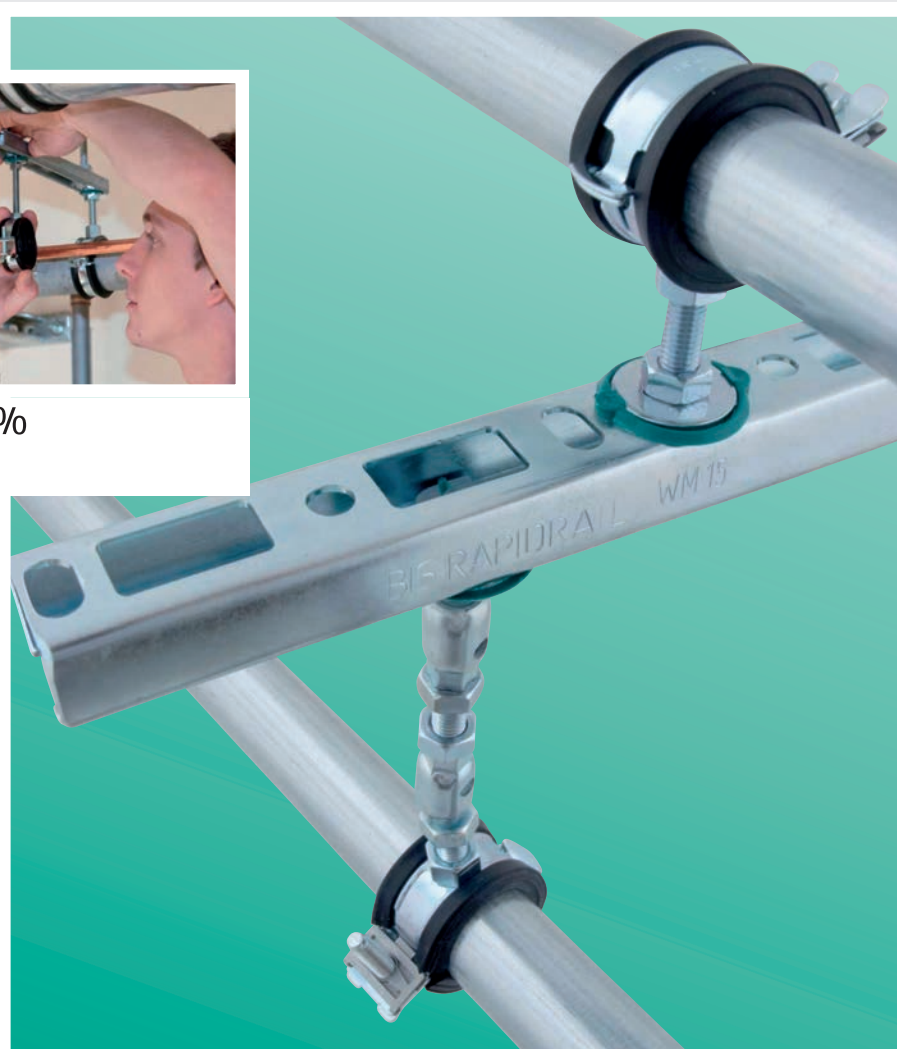
Part number	Dimensions / Techn. details	Pack
650 2 210	2 m 25 x 20 x 1.0	20 ○
650 2 220	2 m 25 x 40 x 1.2	20 ○

BIS RapidRail® Fixing System

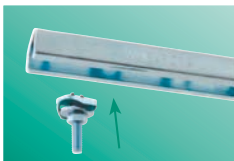
Fast and easy fixing!



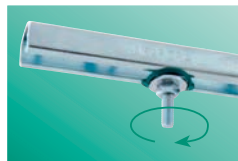
Saves up to 40%
in fixing time!



Quick and easy fixing to the rail



1. Insert



2. Turn 1/4 stroke



3. Slide

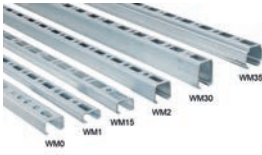


4. Lock

BIS RapidRail® Fixing System

BIS RapidRail® Fixing Rail	Part number	Dimensions / Techn. details	Pack
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Catalogue page G 04 05



- C-profile
- for a quick and easy fixing
- with continuous perforation (on request without perforation)
- distance between rail end and first hole is always equal
- a continuous graduated centimetre scale on one side
- unique perforation on rail WM15, WM30 and rail WM35 allows for hanging on both sides
- 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 5 015	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 5 235	2 m	WM35 - 38x40	-	20	●
650 5 335	3 m	WM35 - 38x40	-	30	●
650 5 635	6 m	WM35 - 38x40	-	60	●

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/C. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf. For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidRail®'.

BIS Fixing Rail - WM3	Part number	Dimensions / Techn. details	Pack
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Catalogue page G 04 40




- C-profile
- for a quick and easy fixing
- with continuous perforation (on request without perforation)
- distance between rail end and first hole is always equal
- material: steel 1.0242
- pre-galvanized

650 5 003	3 m	WM3 - 50x40		3	○
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For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidRail®'.

BIS RapidRail® Cantilever Arms (BUP1000)		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page G 10 05</p>  <ul style="list-style-type: none"> ■ wall plate with welded C-profile ■ perfectly suitable for hanging to the ceiling ■ slots at 90° to each other to simplify fixing ■ CO2 welded ■ a continuous graduated centimetre scale on one side ■ unique perforation on rail WM15, WM30 and rail WM35 allows for hanging on both sides ■ material: steel ■ surface protection: BIS UltraProtect® 1000 system 	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 ○
6603 6 875	750 mm	WM35 - 38x40	1 ○	
6603 6 805	1.050 mm	WM35 - 38x40	1 ○	

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidRail®'.

BIS RapidRail® Wall Plate		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page G 15 05</p>  <ul style="list-style-type: none"> ■ U-profile welded on wall plate ■ for wall fixing of rail ■ rail can be fixed with slot downwards or sideways ■ Part No. 661 3 200: suitable for WM0, 1, 15, 2, 30 ■ Part No. 661 3 235: suitable for WM35 ■ slots at 90° to each other to simplify fixing ■ CO2 welded ■ with pre-assembled BIS RapidRail® Sliding nut(s) for a quick fixing, and retains assembly in place before final tightening ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ zinc plated 	661 3 200		WM0 - 30	25 ●
	661 3 235		WM35	25 ○

BIS RapidRail® Wall Plate (Hinged)		Part number	Dimensions / Techn. details	Pack
Catalogue page G 15 10	<ul style="list-style-type: none"> ■ wall plate with hinging U-profile ■ also used to strengthen rail constructions ■ for fixing of rail to sloping walls ■ Part No. 661 3 250: suitable for WM1, 15, 2, 30 ■ material: steel ■ zinc plated 	661 3 250	WM1 - 30	20 ○







BIS Rail Props		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 05	<ul style="list-style-type: none"> ■ 45° support bracket ■ for fixing support under, top or on side of a cantilever arm ■ also used to strengthen rail constructions ■ cantilever arm of WM30 not suitable for 'run-through fixing' ■ suitable for WM0, 1, 15, 2, 30 ■ material: steel ■ zinc plated 	662 8 220	250 WM0 - 30	10 ○
		662 8 230	350 WM0 - 30	10 ○



BIS Rail Junction Angle Bracket (zp)		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 15	<ul style="list-style-type: none"> ■ one-part support ■ for fixing support under, top or on side of a cantilever arm ■ also used to strengthen rail constructions ■ suitable for WM0, 1, 15, 2, 30 ■ material: steel ■ zinc plated 	659 3 010	WM0 - 30	10 ○



BIS Rail Junction Angle Bracket (hdg)		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 20	 <ul style="list-style-type: none"> for fixing support under, top or on side of a cantilever arm also used to strengthen rail constructions suitable for WM1, 15, 2, 30 material: steel hot dip galvanized 	666 1 110	WM1 - 30	25 ○
BIS Corner Bracket		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 25	 <ul style="list-style-type: none"> for fixing support under, top or on side of a cantilever arm also used to strengthen rail constructions suitable for WM0, 1, 15, 2, 30 material: steel zinc plated 	660 3 010	WM0 - 30	10 ○
BIS Rail Junction Assembly		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 35	 <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling always use 2 beam clamps per fixing also suitable for fixing in risershafts suitable for WM0, 1, 15, 2, 30, 35 material: steel zinc plated 	661 3 820	WM0 - 35	50 ○
BIS RapidRail® Rail Suspension Bracket		Part number	Dimensions / Techn. details	Pack
Catalogue page G 20 40	 <ul style="list-style-type: none"> connector with pre-assembled BIS RapidRail® Slide nut(s) suitable for WM0, 1, 15, 2, 30, 35 ready-to-use re-assembled for quick fixing with pre-assembled BIS RapidRail® Sliding Nut(s) stud bolt with upturned nut hooked in easily because of cross-shaped hole 	679 3 008	WM0 - 35 RAL ¹	50 ○
		<small>RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.</small>		

BIS RapidRail® Rail Suspension Bracket

Part number

Dimensions / Techn. details

Pack



- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

BIS RapidRail® Slide Nuts

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 05



- slide nut with washer and BIS RapidRail® spring
- suitable for WM0, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

Part number	Dimensions	Techn. details	Pack
651 3 106	M6	WM0 - 35	50 ●
651 3 108	M8	WM0 - 35	50 ●
651 3 110	M10	WM0 - 35	50 ●

BIS Slide Nuts 651

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 10



- suitable for WM0, 1, 15, 2, 30, 35
- because of shape the nut fits in rail
 - Part No. 651 3 OXX
- material: steel
- zinc plated

Part number	Dimensions	Techn. details	Pack
651 3 006	651A	M6 WM0 (1 - 35)	100 ○
651 3 008	651A	M8 WM0 (1 - 35)	100 ○
651 3 010	651A	M10 WM0 (1 - 35)	100 ○

Part No. 651 3 OXX recommended for WM0. Moderately suitable for other railtypes.

BIS Angle Formed Slide Nuts

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 25



- suitable for WM1, 15, 2, 30, 35
- material: steel
- zinc plated

Part number	Dimensions	Techn. details	Pack
651 3 709	M8	WM1 - 35	25 ○

BIS RapidRail® Hammerfix

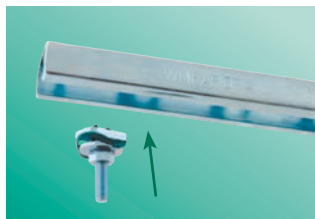
Catalogue page G 30 50



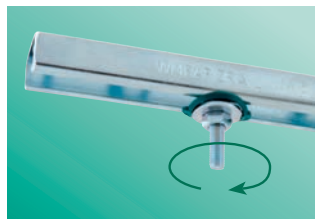
- slide nut with stud bolt, washer and BIS RapidRail® spring
- suitable for WMO, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for a quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

Part number	Dimensions / Techn. details	Pack
652 3 602	M6 20 mm	25 ○
652 3 603	M6 30 mm	25 ○
652 3 604	M6 40 mm	25 ○
652 3 610	M6 100 mm	25 ○
652 3 802	M8 25 mm	25 ●
652 3 803	M8 30 mm	25 ○
652 3 804	M8 40 mm	25 ●
652 3 805	M8 50 mm	25 ○
652 3 806	M8 60 mm	25 ●
652 3 807	M8 70 mm	25 ○
652 3 808	M8 80 mm	25 ○
652 3 809	M8 90 mm	25 ○
652 3 810	M8 100 mm	25 ○
652 3 812	M8 120 mm	25 ○
652 3 815	M8 150 mm	25 ○
652 3 816	M8 160 mm	25 ○
652 3 818	M8 180 mm	25 ○
652 3 820	M8 200 mm	25 ○
652 3 002	M10 25 mm	25 ●
652 3 003	M10 30 mm	25 ○
652 3 004	M10 40 mm	25 ●
652 3 005	M10 50 mm	25 ●
652 3 006	M10 60 mm	25 ●
652 3 007	M10 70 mm	25 ○
652 3 008	M10 80 mm	25 ○
652 3 009	M10 90 mm	25 ○
652 3 010	M10 100 mm	25 ●
652 3 016	M10 160 mm	25 ●
652 3 018	M10 180 mm	25 ○

BIS RapidRail®



1. Insert



2. Turn 1/4 stroke



3. Slide



4. Lock

BIS RapidRail® Hammerfix Female Thread

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 55



- slide nut with female thread, washer and BIS RapidRail® spring
- suitable for WMO, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for a quick fixing
- with inspection hole to check screw-in depth of threaded rod
- screw-in depth is continuously variable
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

Part number	Dimensions / Techn. details	Pack
652 0 020	M8	25 ○
652 0 030	M10	25 ○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS RapidRail® Ball Swivel Hangers

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 60



- slide nut with ball swivel hanger, washer and BIS RapidRail® spring
- recommended for metal pipes up to DN 50, plastic pipes up to DN 100
- suitable for WMO, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for a quick fixing
- with inspection hole to check screw-in depth (attention: when the threaded rod is screwed-in too deep, the ball swivel is blocked)
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

Part number	Dimensions / Techn. details	Pack
652 0 100	M8 45 mm WMO - 35	25 ○
652 0 200	M8 70 mm WMO - 35	25 ○
652 0 110	M10 45 mm WMO - 35	25 ●
652 0 210	M10 70 mm WMO - 35	25 ●

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.
Please note. Always use 2 ball swivel hangers. The maximum length change that can be dealt with, depends on the fixing distance (ceiling - pipe). The height difference that occurs as a result, needs to be taken into consideration.
To be used in combination with BIS Ball Swivel Hangers.

BIS RapidRail® Basket Retainer Clip

Part number

Dimensions / Techn. details

Pack

Catalogue page G 30 100



- push fit for quick and easy installation
- suitable for all type of wire basket (Ø 4-5mm)
- suitable for BIS RapidRail®
- not designed as a load bearing support
- material: spring steel (type CS70)
- surface protection: BIS UltraProtect® 1000 system

655 3 945		100 ●
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BIS RapidRail® Connectors 90° Part number Dimensions / Techn. details Pack

Catalogue page G 35 05



- connector with pre-assembled BIS RapidRail® Slide nut(s)
- to make rail fabrications
- suitable for WM0, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for a quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

658 4 001	Long / long	WM0 - 35	RAL ¹	25	●
658 4 002	Short / long	WM0 - 35	RAL ¹	25	○
658 4 003	Short / short	WM0 - 35	RAL ¹	25	●
658 4 011	Long / long	WM0 - 35	RAL ¹	25	○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS RapidRail® Connectors 135° Part number Dimensions / Techn. details Pack

Catalogue page G 35 10



- connector with pre-assembled BIS RapidRail® Slide nut(s)
- to make rail fabrications
- suitable for WM0, 1, 15, 2, 30, 35
- ready-to-use pre-assembled for a quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

658 4 051	Long / long	WM0 - 35	RAL ¹	25	○
658 4 052	Short / long	WM0 - 35	RAL ¹	25	○
658 4 053	Short / short	WM0 - 35	RAL ¹	25	○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.


BIS Rail Connector with Slide Nuts Part number Dimensions / Techn. details Pack



Catalogue page G 35 15





- to make rail fabrications
- suitable for WM0, 1, 15, 2, 30, 35
- with pre-assembled double slide nut
- material: steel
- zinc plated

658 3 109	90°	25	○
658 3 113	135°	25	○



BIS Rail Connectors		Part number	Dimensions / Techn. details		Pack
Catalogue page G 35 25 	<ul style="list-style-type: none"> ■ to make rail fabrications ■ suitable for WMO, 1, 15, 2, 30, 35 ■ material: steel ■ zinc plated 	658 5 090	90°	WMO - 35	50 ○
		658 5 135	135°	WMO - 35	50 ○


BIS RapidRail® Connector		Part number	Dimensions / Techn. details		Pack
Catalogue page G 35 35  	<ul style="list-style-type: none"> ■ connector with pre-assembled BIS RapidRail® Slide nut(s) ■ to make rail fabrications ■ suitable for WMO, 1, 15, 2, 30, 35 ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ zinc plated 	654 3 001	WMO - 35	RAL ¹	25 ●


RAL¹ = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS RapidRail® T- and X-Connector		Part number	Dimensions / Techn. details		Pack
Catalogue page G 35 45  	<ul style="list-style-type: none"> ■ connector with pre-assembled BIS RapidRail® Slide nut(s) ■ to make rail fabrications ■ suitable for WMO, 1, 15, 2, 30, 35 ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ zinc plated 	658 4 090	T	WMO - 35	25 ●
		658 4 091	X	WMO - 35	25 ●

RAL¹ = tested, certified and monitored by a third party according to RAL-GZ 655/D in combination with Rail WM1, 2, 15 and 30.
 For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

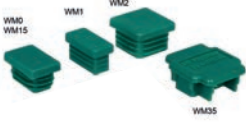
BIS RapidRail® Cross Connectors		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page G 35 50</p>  	<ul style="list-style-type: none"> connector with pre-assembled BIS RapidRail® Slide nut(s) to make rail fabrications ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green zinc plated 	658 4 152	WM15	RAL ¹	25 ○
		658 4 153	WM2	-	25 ○
		658 4 156	WM35	-	25 ○
		<p>RAL1 = tested, certified and monitored by a third party according to 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/library//repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.</p>			

BIS RapidRail® Beam Clamp		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page G 40 05</p> 	<ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling always use 2 beam clamps per fixing Part No. 658 5 011: suitable for WM0, 1, 15, 2, 30 Part No. 658 5 014: suitable for WM35 material: steel zinc plated 	658 5 011	< 16	WM0 - 30	50 ●
		658 5 014	< 20	WM35	50 ●

BIS Rail Beam Clamps		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page G 40 10</p> 	<ul style="list-style-type: none"> beam clamp for a solid fixing to steel construction without the need for welding or drilling always use 2 beam clamps per fixing Part No. 658 3 060: suitable for WM1, 15, 2 Part No. 658 3 090: suitable for WM1, 15, 2, 30 material: steel zinc plated 	658 3 060	WM1, 15, 2	60 mm	50 ○
		658 3 090	WM1 - 30	90 mm	50 ○

BIS Rail End Caps

Catalogue page G 45 05



- for clean finishing of rail end, covers all burrs
- easy to fix securely
- material: PE (polyethylene)

Part number	Dimensions / Techn. details	Color	Pack	
656 6 000	WM0 (27x18 mm), WM15 (30x20 mm)	Green	50	●
656 6 001	WM1 (30x15 mm)	Green	50	○
656 6 002	WM2 (30x30 mm)	Green	25	○
656 6 035	WM35 (38x40 mm)	Green	20	○

BIS Rubber Strip

Catalogue page G 45 10



- noise insulating lining for rail
- also usable for threaded rod M6, M8 or M10
- suitable for WM0, 1, 15, 2, 30, 35
- material: EPDM rubber, black
- sound insulating lining according DIN 4109

Part number	Dimensions / Techn. details	Color	Pack	
656 8 001	30 m WM0 - 35		30	○

Pipe support system for indoor and outdoor use

- Unique system scope, composition and corrosion resistance
- For fixing or supporting mechanical installations, solar systems and more



Corrosion resistance
C1 - C4
ISO 12944-2

Salt spray test
1000 hour
ISO 9227

Outdoor
20 year
warranty

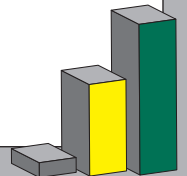
Optimal protection

- All applied surface treatments effortlessly withstand a salt spray test of at least 1000 hours*
- Suitable for corrosive environments (C1-C4 in accordance with ISO 12944-2)



Better than Hot Dip Galvanizing

- Higher corrosion resistance: 1000 hours* versus 300-600 hours (HDG, 50-80 µm)
- Threaded products are also well protected
- Products feel smooth and are also visually appealing

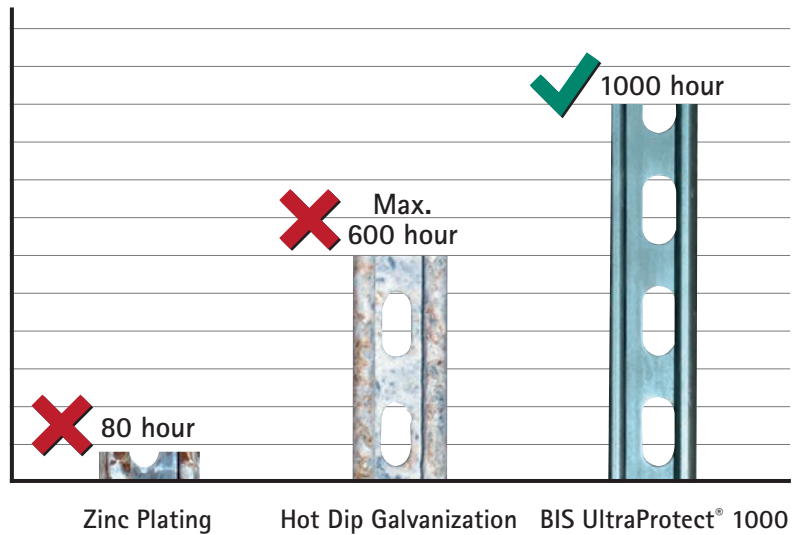


* Until the occurrence of maximum 5% red rust

**The warranty terms, FAQs and installation tips can be found on our website bis-ultraprotect.com

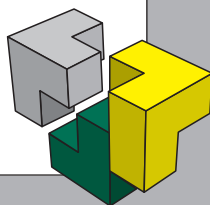


The proof after 1000 hours salt spray test



Complementary system

- The products in the BIS UltraProtect® 1000 system combine together perfectly
- Can also be combined with zinc plated, pre-galvanized or hot dip galvanized products**



20 year warranty**

- Durable solution, products have a life span of at least 20 years
- 20 year warranty on retention of structural integrity and against rusting through when used in an outdoor C1-C4 environment



BIS RapidStrut® Fixing System

BIS RapidStrut® Fixing Rail DS 5 (BUP1000)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 04 05



- unique hole pattern, allowing BIS RapidStrut® Accessories to be mounted on both sides of the rail
- very high corrosion resistance (BIS UltraProtect® 1000)
- corrosion protection remains intact after cutting
- strength minimal equal to Strut 41x41x2.5 mm
- with continuous perforation
- distance between rail end and first hole is always equal
- material: steel 1.0242
- surface protection: BIS UltraProtect® 1000 system

6505 8 352	3 m	41x51x2.0	30 ●
6505 8 652	6 m	41x51x2.0	60 ●

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS RapidStrut® Fixing Rail (pg)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 04 10



- universal rail system
- with continuous perforation (on request without perforation)
- distance between rail end and first hole is always equal
- a continuous graduated centimetre scale on one side
- with inward formed flanges with serrated profile for extra grip
- material: steel 1.0242
- Part No. 650 5 X85 (Strut 2.5 mm) material: steel 1.0332
- yield strength 240 N/mm²
- pre-galvanized
- tested for fire safety

650 5 324	Perforated 3 m	41x21x1.50 RAL ¹	30 ○
650 5 624	Perforated 6 m	41x21x1.50 RAL ¹	60 ○
650 5 325	Perforated 3 m	41x21x2.50 RAL ¹	30 ●
650 5 625	Perforated 6 m	41x21x2.50 RAL ¹	60 ○
650 5 344	Perforated 3 m	41x41x1.50 RAL ¹	30 ○
650 5 644	Perforated 6 m	41x41x1.50 RAL ¹	60 ○
650 5 345	Perforated 3 m	41x41x2.50 RAL ¹	30 ●
650 5 645	Perforated 6 m	41x41x2.50 RAL ¹	60 ○
650 5 665	Perforated 6 m	41x62x2.50 -	60 ○
650 5 685	Perforated 6 m	41x82x2.50 -	60 ○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/C. Strut 41x41x2.5 and above tested for fire safety. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf. For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS RapidStrut® Fixing Rail (hdg)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 04 15



- universal rail system
- with continuous perforation (on request without perforation)
- distance between rail end and first hole is always equal
- a continuous graduated centimetre scale on one side

650 1 327	3 m	41x21x2.50	30 ○
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BIS RapidStrut® Fixing Rail (hdg)

Part number

Dimensions / Techn. details

Pack



- with inward formed flanges with serrated profile for extra grip
- material: steel 1.0038 (S235JR)
- yield strength 240 N/mm²
- hot dip galvanized
- tested for fire safety

650 1 627	6 m	41x21x2.50	60	○
650 1 347	3 m	41x41x2.50	30	○
650 1 647	6 m	41x41x2.50	60	○

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/C. Strut 41x41x2.5 and above tested for fire safety.

For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS RapidStrut® Cantilever Arms (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 08 05



- wall plate welded on Strut Profile
- slots at 90° to each other to simplify fixing
- CO2 welded
- with inward formed flanges with serrated profile for extra grip
- material: steel 1.0226
- surface protection: BIS UltraProtect® 1000 system
- tested for fire safety

660 3 831	200 mm	Strut 41x21x2.5	10	○
660 3 832	300 mm	Strut 41x21x2.5	10	○
660 3 833	450 mm	Strut 41x21x2.5	10	○
660 3 834	600 mm	Strut 41x21x2.5	10	○
660 3 861	150 mm	Strut 41x41x2.5	10	○
660 3 870	200 mm	Strut 41x41x2.5	10	○
660 3 862	300 mm	Strut 41x41x2.5	10	○
660 3 871	400 mm	Strut 41x41x2.5	10	○
660 3 863	450 mm	Strut 41x41x2.5	10	○
660 3 873	500 mm	Strut 41x41x2.5	10	○
660 3 864	600 mm	Strut 41x41x2.5	8	○
660 3 865	750 mm	Strut 41x41x2.5	8	○

Strut 41x41x2.5 and above tested for fire safety.

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS RapidStrut® Cantilever Arms 41x41D (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 08 10



- wall plate welded on Strut Profile
- slots at 90° to each other to simplify fixing
- CO2 welded
- with inward formed flanges with serrated profile for extra grip
- material: steel 1.0332
- surface protection: BIS UltraProtect® 1000 system
- tested for fire safety

660 3 883	450 mm	Strut 41x41Dx2.5	8	○
660 3 884	600 mm	Strut 41x41Dx2.5	4	○
660 3 885	750 mm	Strut 41x41Dx2.5	4	○

Strut 41x2 and above tested for fire safety.

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS RapidStrut® Wall Plate (BUP1000)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 12 05



- U-profile welded on wall plate
- for wall fixing of rail
- rail can be fixed with slot downwards or sideways
- slots at 90° to each other to simplify fixing
- CO2 welded
- with pre-assembled BIS RapidStrut® Sliding Nuts for quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- surface protection: BIS UltraProtect® 1000 system
- tested for fire safety

6668 3 400	Strut	10
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BIS Strut Wall Plate (Hinged) (BUP1000)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 12 25



- wall plate with hinging U-profile
- for wall fixing of rail
- rail can be fixed with slot downwards or sideways
- also used to strengthen constructions with Strut 41x41
- material: steel 1.0332
- surface protection: BIS UltraProtect® 1000 system

6658 8 814	Strut	10
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Max. allowed load (Fa) in brick (safety margin 1:2).

BIS Adjustable Support (BUP1000)	Part number	Dimensions / Techn. details	Pack
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Catalogue page H 12 55



- especially for angled installations with bracings
- suitable for fixing to walls or fixing rails
- adjustable angle up to 90°
- with two holes Ø13 mm
- material: steel
- surface protection: BIS UltraProtect® 1000 system

6658 8 818	Strut	10
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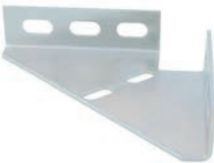
BIS Rail Prop (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page H 16 05	<ul style="list-style-type: none"> ■ 45° support bracket ■ for fixing support under, top or on side of a cantilever arm ■ also used to strengthen rail constructions ■ CO2 welded ■ material: steel 1.0332 ■ surface protection: BIS UltraProtect® 1000 system 	6628 8 530	Strut + WM35	10 ○



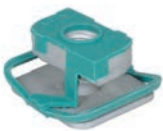
BIS Rail Junction Angle Bracket (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page H 16 20	<ul style="list-style-type: none"> ■ one-part support ■ for fixing support under, top or on side of a cantilever arm ■ also used to strengthen rail constructions ■ material: steel 1.0332 ■ surface protection: BIS UltraProtect® 1000 system 	6593 8 020	Strut + WM35	10 ○



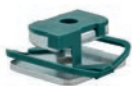
BIS Strut Angle Bracket (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page H 16 35	<ul style="list-style-type: none"> ■ one-part support ■ for fixing support under, top or on side of a cantilever arm ■ also used to strengthen rail constructions ■ material: steel 1.0332 ■ surface protection: BIS UltraProtect® 1000 system 	6603 8 020	Strut + WM35	10 ○




BIS RapidStrut® Slide Nuts (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page H 24 05	<ul style="list-style-type: none"> ■ slide nut with washer and BIS RapidStrut® spring ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ surface protection: BIS UltraProtect® 1000 system ■ tested for fire safety 	6651 8 108	M8	20 ●
		6651 8 110	M10	20 ●
		6651 8 112	M12	20 ●
		M10 and above tested for fire safety.		




BIS RapidStrut® Slide Nuts		Part number	Dimensions / Techn. details	Pack
Catalogue page H 24 10	<ul style="list-style-type: none"> slide nut with washer and BIS RapidStrut® spring ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green zinc plated 	6651 7 106	M6	20 ○



BIS Strut Slide Nuts (BUP1000)		Part number	Dimensions / Techn. details			Pack
Catalogue page H 24 15	<ul style="list-style-type: none"> for all types of Strut Rail for tight fixing of accessories (e.g. connectors) on rail material: steel 1.0332 surface protection: BIS UltraProtect® 1000 system tested for fire safety 	6518 8 006	M6	Strut	5.0	100 ●
		6518 8 008	M8	Strut	6.0	100 ●
		6518 8 010	M10	Strut	8.0	100 ●
		6518 8 012	M12	Strut	9.0	100 ●



M10 and above tested for fire safety.

BIS Strut Slide Nuts (zp)		Part number	Dimensions / Techn. details			Pack
Catalogue page H 24 20	<ul style="list-style-type: none"> material: slide nut made of steel 1.0332; spring made of spring steel DIN17223 (class A) zinc plated tested for fire safety 	651 7 006	M6	-	Strut	100 ○
		651 7 008	M8	-	Strut	100 ○
		651 7 010	M10	-	Strut	100 ○
		651 7 012	M12	-	Strut	100 ○
		651 7 106	M6	13 mm	Strut 41x21	100 ○
		651 7 108	M8	13 mm	Strut 41x21	100 ○
		651 7 110	M10	13 mm	Strut 41x21	100 ○
		651 7 112	M12	13 mm	Strut 41x21	100 ○
		651 7 206	M6	33 mm	Strut 41x41	100 ●
		651 7 208	M8	33 mm	Strut 41x41	100 ○
		651 7 210	M10	33 mm	Strut 41x41	100 ●
		651 7 212	M12	33 mm	Strut 41x41	100 ○



M10 and above tested for fire safety.

BIS Strut Slide Nuts (hdg)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 24 25



- material: slide nut made of steel 1.0332; spring made of spring steel DIN17223 (class A)
- hot dip galvanized
- tested for fire safety



651 8 006	M6	-	Strut	100	○
651 8 008	M8	-	Strut	100	○
651 8 010	M10	-	Strut	100	○
651 8 012	M12	-	Strut	100	○
651 8 106	M6	13 mm	Strut 41x21	100	○
651 8 108	M8	13 mm	Strut 41x21	100	○
651 8 110	M10	13 mm	Strut 41x21	100	○
651 8 112	M12	13 mm	Strut 41x21	100	○
651 8 206	M6	33 mm	Strut 41x41	100	○
651 8 208	M8	33 mm	Strut 41x41	100	○
651 8 210	M10	33 mm	Strut 41x41	100	○
651 8 212	M12	33 mm	Strut 41x41	100	○

M10 and above tested for fire safety.

BIS Strut Square Slide Nut

Part number

Dimensions / Techn. details

Pack

Catalogue page H 24 30



- material: steel 1.0332
- zinc plated
- tested for fire safety



651 7 016	M16		Strut	50	○
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BIS RapidStrut® Slide Nut Plastic Tabs (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 24 35





- slide nut with plastic 'tabs'
- for all types of Strut Rail
- for tight fixing of accessories (e.g. connectors) on rail
- with plastic tabs which simplifies inserting and positioning
- material: slide nut made of steel 1.0332; tabs made of PP (polypropylene), green
- surface protection: BIS UltraProtect® 1000 system
- tested for fire safety






6518 6 8006	M6	Strut	5.0	100	●
6518 6 8008	M8	Strut	6.0	100	●
6518 6 8010	M10	Strut	8.0	100	●
6518 6 8012	M12	Strut	9.0	100	●

M10 and above tested for fire safety.

BIS RapidStrut® Hammerfix (BUP1000)		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page H 24 50</p>  	<ul style="list-style-type: none"> slide nut with stud bolt, washer and BIS RapidStrut® spring ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green surface protection: BIS UltraProtect® 1000 system tested for fire safety 	6527 8 804	M8	40 mm	Strut	5 ●
		6527 8 805	M8	50 mm	Strut	15 ○
		6527 8 806	M8	60 mm	Strut	5 ○
		6527 8 808	M8	80 mm	Strut	5 ○
		6527 8 810	M8	100 mm	Strut	5 ●
		6527 8 004	M10	40 mm	Strut	5 ●
		6527 8 006	M10	60 mm	Strut	5 ●
		6527 8 008	M10	80 mm	Strut	5 ○
		6527 8 204	M12	40 mm	Strut	5 ●
		6527 8 206	M12	60 mm	Strut	5 ○

M10 and above tested for fire safety.

BIS RapidStrut® Hammerfix 'U'		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page H 24 60</p>  	<ul style="list-style-type: none"> slide nut with stud bolt, U-shaped washer and BIS RapidStrut® spring U-shaped for extra stability ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green zinc plated tested for fire safety 	6652 8 006	M10	60 mm		50 ○
		Tested for fire safety.				

BIS RapidStrut® Ball Swivel Hangers		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page H 24 75</p> 	<ul style="list-style-type: none"> slide nut with ball swivel hanger, washer and BIS RapidStrut® spring recommended for metal pipes up to DN 50, plastic pipes up to DN 100 ready-to-use pre-assembled for a quick fixing with inspection hole to check screw-in depth (attention: when the threaded rod is screwed-in too deep, the ball swivel is blocked) screw-in depth is continuously variable 	6653 0 805	M8	80 mm		25 ○
		6653 0 005	M10	80 mm		25 ○
		6653 0 206	M12	110 mm		20 ○
		<p>Please note. Always use 2 ball swivel hangers. The maximum length change that can be dealt with, depends on the fixing distance (ceiling - pipe). The height difference that occurs as a result, needs to be taken into consideration. To be used in combination with BIS Ball Swivel Hangers.</p>				

BIS RapidStrut® Ball Swivel Hangers

Part number

Dimensions / Techn. details

Pack

- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- zinc plated

BIS Strut Washers – Flat (hdg)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 24 90



- flat washer
- material: steel 1.0332
- hot dip galvanized

Part number	Dimensions / Techn. details	Pack
6658 0 008	Ø 9.0	50 ○
6658 0 010	Ø 11.0	50 ●
6658 0 012	Ø 13.0	50 ●

Also available in stainless steel 1.4401 (AISI 316).

BIS Strut Washers – U-shaped (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page H 24 92



- U-shaped washer
- U-shaped for extra stability
- material: steel 1.0332
- surface protection: BIS UltraProtect® 1000 system
- tested for fire safety

Part number	Dimensions / Techn. details	Pack
6658 8 010	Ø 11.0	50 ○

Tested for fire safety.
Also available in stainless steel 1.4401 (AISI 316).



BIS RapidStrut® Rail Connectors 90° (BUP1000)

Part number

Dimensions / Techn. details


Pack


Catalogue page H 28 05





- connector with pre-assembled BIS RapidStrut® Slide nut(s)
- to make fabrication with Strut Rail
- ready-to-use pre-assembled for a quick fixing
- material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green
- surface protection: BIS UltraProtect® 1000 system





Part number	Dimensions / Techn. details	Pack
6658 8 302	Short / short 1 side pre-assembled	50 ○
6658 8 202	Short / short 2 sides pre-assembled	50 ●
6658 8 303	Short / long 1 side pre-assembled	25 ○
6658 8 203	Short / long 2 sides pre-assembled	25 ○
6658 8 305	Long / long 1 side pre-assembled	20 ○
6658 8 205	Long / long 2 sides pre-assembled	20 ○


BIS Strut Connectors, 25°, 65° (BUP1000)		Part number	Dimensions / Techn. details		Pack
Catalogue page H 28 30 	<ul style="list-style-type: none"> to make fabrication with Strut Rail material: steel 1.0332 surface protection: BIS UltraProtect® 1000 system 	6658 8 824	Strut	25°	20 ○
		6658 8 825	Strut	65°	20 ○


BIS RapidStrut® Rail Connectors 135° (BUP1000)		Part number	Dimensions / Techn. details		Pack
Catalogue page H 28 55 	<ul style="list-style-type: none"> connector with pre-assembled BIS RapidStrut® Slide nut(s) to make fabrication with Strut Rail ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green surface protection: BIS UltraProtect® 1000 system 	6658 8 330	Short / long	1 side pre-assembled	25 ○
		6658 8 235	Long / long	2 sides pre-assembled	20 ●

BIS RapidStrut® Rail Connectors (BUP1000)		Part number	Dimensions / Techn. details		Pack
Catalogue page H 28 75 	<ul style="list-style-type: none"> connector with pre-assembled BIS RapidStrut® Slide nut(s) to make fabrication with Strut Rail ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green surface protection: BIS UltraProtect® 1000 system 	6658 8 184	2 x M10	82 mm	50 ○
		6658 8 186	4 x M10	164 mm	25 ○


BIS RapidStrut® Rail Connectors		Part number	Dimensions / Techn. details		Pack
Catalogue page H 28 80 	<ul style="list-style-type: none"> connector with pre-assembled BIS RapidStrut® Slide nut(s) to make fabrication with Strut Rail ready-to-use pre-assembled for a quick fixing material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green zinc plated 	6658 7 185	3 x M10	123 mm	25 ○


BIS RapidStrut® Rail Connector – U-shaped (BUP1000)		Part number	Dimensions / Techn. details			Pack
Catalogue page H 28 90	<ul style="list-style-type: none"> ■ connector with pre-assembled BIS RapidStrut® Slide nut(s) ■ to make fabrication with Strut Rail ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ surface protection: BIS UltraProtect® 1000 system 	6658 8 421	Strut			20 ○
						
BIS RapidStrut® Rail T- and X-Connector (BUP1000)		Part number	Dimensions / Techn. details			Pack
Catalogue page H 28 110	<ul style="list-style-type: none"> ■ connector with pre-assembled BIS RapidStrut® Slide nut(s) ■ to make fabrication with Strut Rail ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ surface protection: BIS UltraProtect® 1000 system 	6658 8 213	T	Strut	20 ○	
		6658 8 223	X	Strut	15 ○	
BIS RapidStrut® Cross Connectors (BUP1000)		Part number	Dimensions / Techn. details			Pack
Catalogue page H 28 135	<ul style="list-style-type: none"> ■ connector with pre-assembled BIS RapidStrut® Slide nut(s) ■ to make fabrication with Strut Rail ■ ready-to-use pre-assembled for a quick fixing ■ material: metal parts made of steel 1.0332; spring(s) made of POM (polyoxymethylene), green ■ surface protection: BIS UltraProtect® 1000 system 	6658 8 402	135	26	Strut 41x21	25 ○
		6658 8 404	135	46	Strut 41x41	25 ○
		6658 8 406	135	66	Strut 41x62	15 ○
		6658 8 408	135	87	Strut 41x82	10 ○
BIS Strut 'Heavy Duty' Beam Clamp		Part number	Dimensions / Techn. details			Pack
Catalogue page H 36 40	<ul style="list-style-type: none"> ■ for suspension of heavy components like cable trays, duct work, etc. onto beams without welding or drilling ■ up to flange thickness 35 mm ■ for fixing of Strut 41x21D or Strut 41x41D to a steel beam ■ material: steel ■ hot dip galvanized 	607 2 002	Strut			20 ○
						

BIS Strut Inter Flange Clamps		Part number	Dimensions / Techn. details	Pack
Catalogue page H 36 45  <ul style="list-style-type: none"> ■ installed in pairs at desired point, in combination with standard Strut Rail ■ for bracing lighter services such as cables, pipes, etc. between the flanges of I- or U-profile steelwork without drilling or welding ■ material: steel ■ zinc plated ■ 1 set 	607 8 021	Strut 41x21	10	●
	607 8 041	Strut 41x41 + Strut 41x21D	10	●


BIS Strut Rail End Caps (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page H 39 05  <ul style="list-style-type: none"> ■ for clean finishing of rail end, covers all burrs ■ easy to fix securely ■ material: PE (polyethylene), green 	656 6 021	Strut 41x21	50	○
	656 6 041	Strut 41x41	50	○
	656 6 051	Strut 41x51 (BIS RapidStrut® DS 5)	40	●

For profile with 62/82/164 mm insert end caps next to each other.

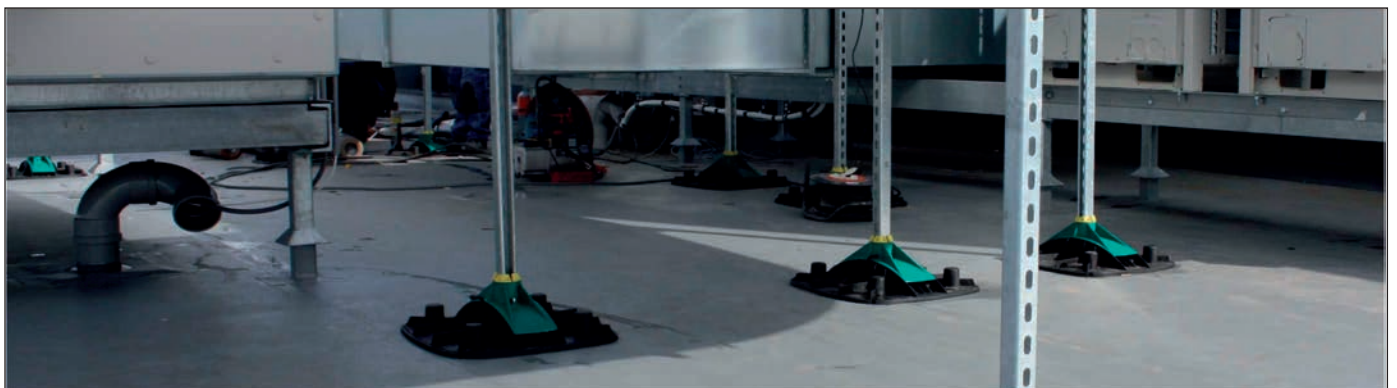
BIS Strut PVC Profile (BUP1000)		Part number	Dimensions / Techn. details	Pack	
Catalogue page H 39 15  <ul style="list-style-type: none"> ■ closing strip for rail ■ reduces the risk of dirt / moisture ingress ■ aesthetic finish ■ simplifies cleaning / maintenance ■ material: PVC (polyvinylchloride), white 	656 6 999	3 m	Strut	25	○


BIS Strut Rubber Strips		Part number	Dimensions / Techn. details	Pack	
Catalogue page H 39 20  <ul style="list-style-type: none"> ■ push in strip ■ noise insulating lining for rail ■ also usable for threaded rod M6, M8 or M10 ■ material: EPDM rubber, black ■ sound insulating lining according DIN 4109 	656 8 041	1/4 - 1/2"	30 m	30	○

BIS Rooftop + Solar Fixings


BIS Yeti® 480 Support System (BUP1000)		Part number	Dimensions / Techn. details	Pack
Catalogue page I 04 05  <ul style="list-style-type: none"> ■ modular supporting system for climate installations, solar panels, walkways, pipe work, cable ways, etc. ■ for flat and low pitched roofs ■ adjustable up to 7° to compensate roof pitch ■ 360° rotatable insert for BIS RapidStrut® 41x41 or BIS RapidStrut® DS 5 (41x52 mm) ■ with non-slip anti-vibration mat ■ with optional stackable ballast block for increased weight / stability ■ 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: <ul style="list-style-type: none"> - 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 	6768 5 001	Vertical, including non-slip anti-vibration mat	Strut 41x41 + DS 5 (41x51)	1 ○
	6768 5 101	Horizontal, including non-slip anti-vibration mat	Strut 41x41 + DS 5 (41x51)	1 ○
	6768 5 301	H-set (without Strut Rail)	Strut 41x41 + DS 5 (41x51)	1 ○
	6768 5 401	Ballast block	-	1 ○

Fa,z load is break load only, for a detailed load calculation please contact Walraven technical support.
 In cases where a foot is used in roof applications, the installer is obliged to verify maximum load capacity of roof before installation.



BIS Yeti® 335 Support System (BUP1000)		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page 04 10</p>  <ul style="list-style-type: none"> ■ modular supporting system for climate installations, solar panels, walkways, pipe work, cable ways, etc. ■ for flat roofs ■ for horizontal and vertical applications ■ 360° rotatable insert for BIS RapidStrut® 41x41 or BIS RapidStrut® DS 5 (41x52 mm) ■ with non-slip anti-vibration mat ■ 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: <ul style="list-style-type: none"> - 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 	6768 5 201	Including non-slip anti-vibration mat	Strut 41x41 + DS 5 (41x51)	1 ○
	6768 5 302	H-set (without Strut Rail)	Strut 41x41 + DS 5 (41x51)	1 ○

Fa,z load is break load only, for a detailed load calculation please contact Walraven technical support.
In cases where a foot is used in roof applications, the installer is obliged to verify maximum load capacity of roof before installation.

BIS Ursus Foot Support System (BUP1000)		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page 04 20</p>  <ul style="list-style-type: none"> ■ for supporting small pipework systems, ductwork runs and cable trays ■ 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 	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 ○

Fa,z load is break load only, for a detailed load calculation please contact Walraven technical support.
In cases where a foot is used in roof applications, the installer is obliged to verify maximum load capacity of roof before installation.

BIS Solar Fixing Thermal Collector (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page | 08 10



- to fix thermal solar collectors to the building
- quick installation
- suitable for solar collectors in thickness 80 - 110 mm
- material: steel 1.0037; bolts made of stainless steel
- surface protection: BIS UltraProtect® 1000 system

790 0 000

10 ○

BIS Spectrum® PV Mounting System

Part number

Dimensions / Techn. details

Pack

Catalogue page | 08 35



- solid construction
- quick and easy assembly
- minimum ballast
- non-penetrating system
- for more information or advice please contact your Walraven Sales Company or visit our website www.walraven.com/bisspectrum

790 9 900

BIS Spectrum® Mounting Unit

1 ○

790 8 100

BIS Spectrum® Universal Clip

1 ○

790 8 615

BIS Spectrum® Rail

1 ○

790 8 101

BIS Spectrum® Rail Connector

1 ○

Britclips®

Fixings for Services and Cable



Innovative solutions
that go beyond the boundaries

Your specialist in innovative fixing systems



Britclips® Beam Clips



Britclips® Vertical Flange Clips





Britclips® Master Clamp




Britclips® Cable Run Clip


Britclips® Electrical Fixings

Britclips® Tiger		Part number	Dimensions / Techn. details			Pack
Catalogue page J 05 05 	<ul style="list-style-type: none"> multi-purpose clip for static loads, single use and non relocatable to hammer on or by hand; always the eye opposite to the load also suitable for outside use with hole to receive steel cable, S-Hook, cable tie, threaded rod (M6 or M8), etc. material: spring steel (type CS70) surface treatment: Magni coated, 2 layers (600 hours resistant to salt spray) incl. Britclips® ICP Thread plate, for wood screws from 4.0 to 4.5 mm (see J 50 07) 	EP 5180 3 208	2 - 8	30	30	25 ●
		EP 5180 3 216	8 - 16	32	38	25 ●
		EP 5180 2 224	16 - 24	42	48	20 ●
		For use with static loads only.				

Britclips® Beam Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 05 105 	<ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling with fixing hole (Ø 6.5 mm) to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5002 0 004	BC125	2 - 4	21	100 ●
		EP 5002 0 004	BC125	2 - 4	21	25 ●
		EM 5002 0 009	BC250	5 - 9	23	100 ●
		EP 5002 0 009	BC250	5 - 9	23	25 ●
		EM 5002 0 016	BC500	10 - 16	29	100 ●
		EP 5002 0 016	BC500	10 - 16	29	25 ●
		EM 5002 0 020	BC750	17 - 20	34	100 ●
		EP 5002 0 020	BC750	17 - 20	34	25 ●
		EM 5002 0 030	BC1000	23 - 30	40	100 ●
		For use with static loads only.				

Britclips® Beam Clips / Cable Tie		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 05 110</p>  <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ with saddle for cable tie attachment (up to width 7.6 mm) ■ material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5033 0 104	BCCT12-5.5	2 - 4	With tie (L = 160 mm)	100	○
	EM 5033 0 204	BCCT12-10	2 - 4	With tie (L = 292 mm)	100	○
	EM 5033 0 109	BCCT25-5.5	5 - 9	With tie (L = 160 mm)	100	○
	EM 5033 0 209	BCCT25-10	5 - 9	With tie (L = 292 mm)	100	●
	EM 5033 0 116	BCCT50-5.5	10 - 16	With tie (L = 160 mm)	50	●
	EM 5033 0 216	BCCT50-10	10 - 16	With tie (L = 292 mm)	50	●
	EM 5033 0 120	BCCT75-5.5	17 - 20	With tie (L = 160 mm)	50	○
	EM 5033 0 220	BCCT75-10	17 - 20	With tie (L = 292 mm)	50	○
	EM 5033 0 130	BCCT100-5.5	23 - 30	With tie (L = 160 mm)	25	○
	EM 5033 0 230	BCCT100-10	23 - 30	With tie (L = 292 mm)	25	○

For use with static loads only.

Britclips® Beam Clips / Reversed Cable Tie		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 05 115</p>  <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ with saddle for cable tie attachment (up to width 7.6 mm) ■ material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5032 0 104	BCCT12-5.5R	2 - 4	With tie (L = 160 mm)	100	○
	EM 5032 0 204	BCCT12-10R	2 - 4	With tie (L = 292 mm)	100	○
	EM 5032 0 109	BCCT25-5.5R	5 - 9	With tie (L = 160 mm)	100	○
	EM 5032 0 209	BCCT25-10R	5 - 9	With tie (L = 292 mm)	100	○
	EM 5032 0 116	BCCT50-5.5R	10 - 16	With tie (L = 160 mm)	50	○
	EM 5032 0 216	BCCT50-10R	10 - 16	With tie (L = 292 mm)	50	○
	EM 5032 0 120	BCCT75-5.5R	17 - 20	With tie (L = 160 mm)	50	○
	EM 5032 0 220	BCCT75-10R	17 - 20	With tie (L = 292 mm)	50	○
	EM 5032 0 130	BCCT100-5.5R	23 - 30	With tie (L = 160 mm)	25	○
	EM 5032 0 230	BCCT100-10R	23 - 30	With tie (L = 292 mm)	25	○

For use with static loads only.

Britclips® Beam Clips / Saddle Combinations

Part number

Dimensions / Techn. details

Pack

Catalogue page J 05 120



- for a solid fixing to steel construction without the need for welding or drilling
- with saddle for cable tie attachment (up to width 7.6 mm)
- material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5033 0 004	BCCT12	2 - 4	100	○
EM 5033 0 009	BCCT25	5 - 9	100	○
EM 5033 0 016	BCCT50	10 - 16	100	●
EM 5033 0 020	BCCT75	17 - 20	50	○
EM 5033 0 030	BCCT100	23 - 30	50	○

For use with static loads only.

Britclips® Beam Clips / Reversed Saddle Combinations

Part number

Dimensions / Techn. details

Pack

Catalogue page J 05 125



- for a solid fixing to steel construction without the need for welding or drilling
- with saddle for cable tie attachment (up to width 7.6 mm)
- material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5032 0 004	BCCT12R	2 - 4	100	○
EM 5032 0 009	BCCT25R	5 - 9	100	●
EM 5032 0 016	BCCT50R	10 - 16	50	●
EM 5032 0 020	BCCT75R	17 - 20	50	●
EM 5032 0 030	BCCT100R	23 - 30	50	○

For use with static loads only.

Britclips® Beam Clips / Conduit Combination

Part number

Dimensions / Techn. details

Pack

Catalogue page J 05 130



- for a solid fixing to steel construction without the need for welding or drilling
- conduit clip swivels 360°
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5016 2 004	BCC12-50	20	2 - 4	100	○
EM 5016 2 009	BCC25-50	20	5 - 9	100	○
EM 5016 2 016	BCC50-50	20	10 - 16	50	●
EM 5016 2 020	BCC75-50	20	17 - 20	50	○
EM 5016 2 030	BCC100-50	20	23 - 30	25	○
EM 5016 2 504	BCC12-75	25	2 - 4	100	○
EM 5016 2 509	BCC25-75	25	5 - 9	50	○
EM 5016 2 516	BCC50-75	25	10 - 16	50	○
EM 5016 2 520	BCC75-75	25	17 - 20	50	○
EM 5016 2 530	BCC100-75	25	23 - 30	25	○
EM 5016 3 004	BCC12-100	32	2 - 4	50	○
EM 5016 3 009	BCC25-100	32	5 - 9	50	○
EM 5016 3 016	BCC50-100	32	10 - 16	50	○
EM 5016 3 020	BCC75-100	32	17 - 20	50	○

For use with static loads only.

Britclips® Reversed Beam Clips / Conduit Combination

Catalogue page J 05 135



- for a solid fixing to steel construction without the need for welding or drilling
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions / Techn. details	Pack
EM 5014 2 004	BCC12-50R 20 2 - 4	100 ○
EM 5014 2 009	BCC25-50R 20 5 - 9	50 ○
EM 5014 2 016	BCC50-50R 20 10 - 16	50 ●
EM 5014 2 020	BCC75-50R 20 17 - 20	50 ○
EM 5014 2 030	BCC100-50R 20 23 - 30	50 ○
EM 5014 2 504	BCC12-75R 25 2 - 4	100 ○
EM 5014 2 509	BCC25-75R 25 5 - 9	100 ○
EM 5014 2 516	BCC50-75R 25 10 - 16	50 ●
EM 5014 2 520	BCC75-75R 25 17 - 20	50 ○
EM 5014 2 530	BCC100-75R 25 23 - 30	50 ○
EM 5014 3 016	BCC50-100R 32 10 - 16	50 ○
EM 5014 3 020	BCC75-100R 32 17 - 20	50 ○

For use with static loads only.

Britclips® Beam Clips / Locking Unit Combinations

Catalogue page J 05 140




- for a solid fixing to steel construction without the need for welding or drilling
- conduit clip swivels 360°
- conduit clip with jaw locking (use pliers to lock)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions / Techn. details	Pack
EM 5012 1 704	BLCC12-25 12 - 16 2 - 4 16	100 ○
EM 5012 1 709	BLCC25-25 12 - 16 5 - 9 16	50 ○
EM 5012 1 716	BLCC50-25 12 - 16 10 - 16 30	50 ○
EM 5012 1 720	BLCC75-25 12 - 16 17 - 20 32	50 ○
EM 5012 1 730	BLCC100-25 12 - 16 23 - 30 50	25 ○
EM 5012 2 404	BLCC12-50 19 - 22 2 - 4 16	100 ○
EM 5012 2 409	BLCC25-50 19 - 22 5 - 9 16	50 ○
EM 5012 2 416	BLCC50-50 19 - 22 10 - 16 30	50 ○
EM 5012 2 420	BLCC75-50 19 - 22 17 - 20 32	50 ○
EM 5012 2 430	BLCC100-50 19 - 22 23 - 30 50	25 ○
EM 5012 2 504	BLCC12-575 20 - 25 2 - 4 16	100 ○
EM 5012 2 509	BLCC25-575 20 - 25 5 - 9 16	50 ○
EM 5012 2 516	BLCC50-575 20 - 25 10 - 16 30	50 ●
EM 5012 2 520	BLCC75-575 20 - 25 17 - 20 32	50 ●
EM 5012 2 530	BLCC100-575 20 - 25 23 - 30 50	25 ○
EM 5012 2 604	BLCC12-75 23 - 25 2 - 4 16	100 ○
EM 5012 2 609	BLCC25-75 23 - 25 5 - 9 16	50 ○
EM 5012 2 616	BLCC50-75 23 - 25 10 - 16 30	50 ○
EM 5012 2 620	BLCC75-75 23 - 25 17 - 20 32	50 ○
EM 5012 2 630	BLCC100-75 23 - 25 23 - 30 50	25 ○
EM 5012 3 204	BLCC12-100 26 - 32 2 - 4 16	100 ○
EM 5012 3 209	BLCC25-100 26 - 32 5 - 9 16	100 ○
EM 5012 3 216	BLCC50-100 26 - 32 10 - 16 30	50 ○
EM 5012 3 220	BLCC75-100 26 - 32 17 - 20 32	50 ○
EM 5012 3 230	BLCC100-100 26 - 32 23 - 30 50	25 ○


Britclips® Beam Clips / Locking Unit Combinations	Part number	Dimensions / Techn. details				Pack
	EM 5012 4 009	BLCC25-125	33 - 40	5 - 9	16	100 ○
	EM 5012 4 016	BLCC50-125	33 - 40	10 - 16	30	50 ○
	EM 5012 4 030	BLCC100-125	33 - 40	23 - 30	50	25 ○

For use with static loads only.

Britclips® Beam Clips / Horizontal Stud M6 x 9	Part number	Dimensions / Techn. details				Pack
Catalogue page J 05 145 	EM 5052 0 604	BC125-M69SH	2 - 4	20	100 ○	
	EM 5052 0 609	BC250-M69SH	5 - 9	21	100 ○	
	EM 5052 0 616	BC500-M69SH	10 - 16	30	100 ○	
	EM 5052 0 620	BC750-M69SH	17 - 20	32	100 ○	
	EM 5052 0 630	BC1000-M69SH	23 - 30	50	50 ○	


- for a solid fixing to steel construction without the need for welding or drilling
- with stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc.
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

For use with static loads only.

Britclips® Beam Clips / Vertical Stud M6 x 9	Part number	Dimensions / Techn. details				Pack
Catalogue page J 05 150 	EM 5052 1 609	BC250-M611SV		5 - 9	100 ○	
	EM 5052 1 616	BC500-M611SV		10 - 16	100 ○	


- for a solid fixing to steel construction without the need for welding or drilling
- with stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc.
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)


For use with static loads only.


Britclips® Light Duty Rod Hangers M6	Part number	Dimensions / Techn. details				Pack
Catalogue page J 05 155 	EM 5042 5 609	BC250-M6	5 - 9	M6	100 ●	
	EM 5042 5 616	BC500-M6	10 - 16	M6	100 ●	

- for a solid fixing to steel construction without the need for welding or drilling
- suitable for M6 threaded rod
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

For use with static loads only.

Britclips® Push Fasteners		Part number	Dimensions / Techn. details		Pack
Catalogue page J 05 160  <ul style="list-style-type: none"> for a solid fixing to flanges without welding or drilling with flexible strip to support cables material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5032 7 504	PF125	2 - 4	100	○
	EM 5032 7 509	PF250	5 - 9	100	○
	EM 5032 7 516	PF500	10 - 16	100	○
	EM 5032 7 520	PF750	17 - 20	100	○
	For use with static loads only.				

Britclips® Beam Clips / Threaded Rod Hangers		Part number	Dimensions / Techn. details				Pack
Catalogue page J 05 165  <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling with threaded rod holder (rod height adjustable by screwing) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5042 0 604	RH6MT-12	2 - 4	M6	44	100	○
	EM 5042 0 804	RH8MT-12	2 - 4	M8	44	100	○
	EM 5042 1 004	RH10MT-12	2 - 4	M10	44	100	○
	EM 5042 1 104	RH12P-12	2 - 4	Ø 11.0 mm	44	100	○
	EM 5042 0 609	RH6MT-25	5 - 9	M6	51	100	○
	EM 5042 0 809	RH8MT-25	5 - 9	M8	51	100	●
	EM 5042 1 009	RH10MT-25	5 - 9	M10	51	100	●
	EM 5042 1 109	RH12P-25	5 - 9	Ø 11.0 mm	51	100	○
	EM 5042 0 616	RH6MT-50	10 - 16	M6	56	100	○
	EM 5042 0 816	RH8MT-50	10 - 16	M8	56	100	●
	EM 5042 1 016	RH10MT-50	10 - 16	M10	56	100	●
	EM 5042 1 116	RH12P-50	10 - 16	Ø 11.0 mm	56	100	○
	EM 5042 0 620	RH6MT-75	17 - 20	M6	63	100	○
	EM 5042 0 820	RH8MT	17 - 20	M8	63	100	○
	EM 5042 1 020	RH10MT-75	17 - 20	M10	63	100	○
	EM 5042 1 120	RH12P-75	17 - 20	Ø 11.0 mm	63	100	○
	EM 5042 0 630	RH6MT-100	23 - 30	M6	82	100	○
	EM 5042 0 830	RH8MT-100	23 - 30	M8	82	100	○
	EM 5042 1 030	RH10MT-100	23 - 30	M10	82	100	○
	EM 5042 1 130	RH12P-100	23 - 30	Ø 11.0 mm	82	100	○
For use with static loads only.							

Britclips® Beam Clips / Adjustable Rod Hanger		Part number	Dimensions / Techn. details			Pack
Catalogue page J 05 170  <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling with threaded rod clip (rod height adjustable by sliding) material: spring steel (type CS70) 	EM 5062 0 604	TRH6-12	2 - 4	M6	100	○
	EM 5062 0 804	TRH8-12	2 - 4	M8	100	○
	EM 5062 1 004	TRH10-12	2 - 4	M10	100	○
	EM 5062 0 609	TRH6-25	5 - 9	M6	100	○
	EM 5062 0 809	TRH8-25	5 - 9	M8	100	○
	EM 5062 1 009	TRH10-25	5 - 9	M10	100	○

Britclips® Beam Clips / Adjustable Rod Hanger

- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions / Techn. details	Pack
EM 5062 0 616	TRH6-50 10 - 16 M6	100 ○
EM 5062 0 816	TRH8-50 10 - 16 M8	100 ○
EM 5062 1 016	TRH10-50 10 - 16 M10	100 ○
EM 5062 0 620	TRH6-75 17 - 20 M6	100 ○
EM 5062 0 820	TRH8-75 17 - 20 M8	100 ○
EM 5062 1 030	TRH10-100 23 - 30 M10	100 ○

For use with static loads only.

Britclips® Beam Clips / Strap and Right Angle Hangers

Catalogue page J 05 175



- for a solid fixing to steel construction without the need for welding or drilling
- suspension parallel or at right angle to edge of flange
- with provision for fixing of suspension band up to width 28 mm
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions / Techn. details	Pack
EM 5072 0 004	SH125 2 - 4 35	100 ○
EM 5072 0 009	SH250 5 - 9 40	100 ○
EM 5072 0 016	SH500 10 - 16 45	100 ○
EM 5072 0 020	SH750 17 - 20 54	100 ○
EM 5072 0 109	SHR250 5 - 9 60	100 ○
EM 5072 0 116	SHR500 10 - 16 68	100 ○
EM 5072 0 120	SHR750 17 - 20 75	100 ○
EM 5072 0 130	SHR1000 23 - 30 94	100 ○

For use with static loads only.

Britclips® Beam Clips / Snap-in Cable Clip


Catalogue page J 05 180





- for a solid fixing to steel construction without the need for welding or drilling
- with clip for pipe - or cable fixing
- material: bracket made of spring steel (type CS70); clip of PA (polyamide), black
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions / Techn. details	Pack
EM 5022 1 004	BCD12-10 10 2 - 4	100 ○
EM 5022 1 504	BCD12-15 15 2 - 4	100 ○
EM 5022 1 009	BCD25-10 10 5 - 9	100 ○
EM 5022 1 509	BCD25-15 15 5 - 9	100 ○
EM 5022 2 009	BCD25-20 20 5 - 9	100 ○
EM 5022 1 016	BCD50-10 10 10 - 16	100 ○
EM 5022 1 516	BCD50-15 15 10 - 16	100 ○
EM 5022 2 016	BCD50-20 20 10 - 16	100 ○
EM 5022 1 020	BCD75-10 10 17 - 20	100 ○
EM 5022 2 020	BCD75-20 20 17 - 20	100 ○

For use with static loads only.

Britclips® Beam Clips / Double Cable		Part number	Dimensions / Techn. details			Pack
Catalogue page J 05 185  <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5019 9 004	BC125-DCC	7 - 12	2 - 4	50	○
	EM 5019 9 009	BC250-DCC	7 - 12	5 - 9	50	○
	EM 5019 9 016	BC500-DCC	7 - 12	10 - 16	50	○
	EM 5019 9 020	BC750-DCC	7 - 12	17 - 20	50	○
	EM 5019 9 030	BC1000-DCC	7 - 12	23 - 30	25	○
	For use with static loads only.					

Britclips® Universal Beam Clips / Double Cable		Part number	Dimensions / Techn. details			Pack
Catalogue page J 05 190  <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5119 9 007	H2-4DCC	7 - 12	3.0 - 7.0	50	○
	EM 5119 9 013	H5-8-DCC	7 - 12	8.0 - 12.5	50	○
	EM 5119 9 020	H9-12DCC	7 - 12	14.0 - 20.0	25	○
	For use with static loads only.					

Britclips® Universal Beam Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 10 105  <ul style="list-style-type: none"> ■ for a solid fixing under flanges without welding or drilling ■ suitable for horizontal and vertical flanges ■ with female thread M6 ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5142 0 607	H2-4	3.0 - 7.0	M6	100	●
	EM 5142 0 613	H5-8	8.0 - 12.5	M6	100	●
	EM 5142 0 620	H9-12	14.0 - 20.0	M6	50	●
	For use with static loads only.					

Britclips® Universal Beam Clips M6 x 8

Part number

Dimensions / Techn. details

Pack

Catalogue page J 10 110



- for a solid fixing under flanges without welding or drilling
- suitable for horizontal and vertical flanges
- with stud bolt M6 x 8 mm for fixing of clamp, conduit junction box, etc.
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions	Techn. details	Pack
EM 5152 0 607	H2-4S	3.0 - 7.0	M6 100
EM 5152 0 613	H5-8S	8.0 - 12.5	M6 100
EM 5152 0 620	H9-12S	14.0 - 20.0	M6 50

For use with static loads only.

Britclips® Universal Beam Clips / Conduit Combination

Part number

Dimensions / Techn. details

Pack

Catalogue page J 10 115



- for a solid fixing to steel construction without the need for welding or drilling
- conduit clip swivels 360°
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions	Techn. details	Pack
EM 5113 2 007	50H2-4	20	3.0 - 7.0 100
EM 5113 2 013	50H5-8	20	8.0 - 12.5 50
EM 5113 2 020	50H9-12	20	14.0 - 20.0 50
EM 5113 2 507	75H2-4	25	3.0 - 7.0 100
EM 5113 2 513	75H5-8	25	8.0 - 12.5 50
EM 5113 2 520	75H9-12	25	14.0 - 20.0 50
EM 5113 3 207	100H2-4	32	3.0 - 7.0 100
EM 5113 3 213	100H5-8	32	8.0 - 12.5 50

For use with static loads only.

Britclips® Side Mounted Beam Clips / Conduit Combi

Part number

Dimensions / Techn. details

Pack

Catalogue page J 10 120



- for a solid fixing to steel construction without the need for welding or drilling
- conduit clip swivels 360°
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

Part number	Dimensions	Techn. details	Pack
EM 5114 2 007	50H2-4SM	20	3.0 - 7.0 50
EM 5114 2 013	50H5-8SM	20	8.0 - 12.5 50
EM 5114 2 020	50H9-12SM	20	14.0 - 20.0 50
EM 5114 2 507	75H2-4SM	25	3.0 - 7.0 50
EM 5114 2 513	75H5-8SM	25	8.0 - 12.5 50
EM 5114 2 520	75H9-12SM	25	14.0 - 20.0 50

For use with static loads only.

Britclips® Universal Beam Clip / Locking Conduit Combi		Part number	Dimensions / Techn. details			Pack
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Catalogue page J 10 125



- for a solid fixing under flanges without welding or drilling
- conduit clip swivels 360°
- conduit clip with jaw locking (use pliers to lock)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5112 1 713	HN25L	12 - 16	8.0 - 12.5	50	○
EM 5112 1 720	HO25L	12 - 16	14.0 - 20.0	50	○
EM 5112 2 407	HM50L	19 - 22	3.0 - 7.0	50	○
EM 5112 2 413	HN50L	19 - 22	8.0 - 12.5	50	○
EM 5112 2 420	HO50L	19 - 22	14.0 - 20.0	50	○
EM 5112 2 507	HM575L	20 - 25	3.0 - 7.0	50	○
EM 5112 2 513	HN575L	20 - 25	8.0 - 12.5	50	○
EM 5112 2 520	HO575L	20 - 25	14.0 - 20.0	50	○
EM 5112 2 607	HM75L	23 - 25	3.0 - 7.0	50	○
EM 5112 2 613	HN75L	23 - 25	8.0 - 12.5	50	○
EM 5112 2 620	HO75L	23 - 25	14.0 - 20.0	50	○
EM 5112 3 207	HM100L	26 - 32	3.0 - 7.0	50	○
EM 5112 3 213	HN100L	26 - 32	8.0 - 12.5	50	○
EM 5112 3 220	HO100L	26 - 32	14.0 - 20.0	25	○
EM 5112 4 007	HM125L	33 - 40	3.0 - 7.0	50	○
EM 5112 4 013	HN125L	33 - 40	8.0 - 12.5	50	○
EM 5112 4 020	HO125L	33 - 40	14.0 - 20.0	25	○

For use with static loads only.

Britclips® Universal Pipe Clips		Part number	Dimensions / Techn. details			Pack
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Catalogue page J 10 130





- for a solid fixing to steel construction without the need for welding or drilling
- Part No. EM 5117 1 213: suits up to 12 mm diameter cable
- Part No. EM 5117 1 213: is for use with rail types: BS110, BS113, UIC54 and UIC 60
- material: Britclips® Universal Beam Clips made of spring steel (type CS70); Britclips® Pipe Clips made of steel
- surface treatment: Britclips® Universal Beam Clips: Delta-Tone 9000 (480 hours); Britclips® Pipe Clips: zinc plated


EM 5117 1 207	HP2-12	12	3.0 - 7.0	50	○
EM 5117 1 213	HP5-12	12	8.0 - 12.5	100	●
EM 5117 1 220	HP9-12	12	14.0 - 20.0	25	○
EM 5117 1 507	HP2-15	15	3.0 - 7.0	50	○
EM 5117 1 513	HP5-15	15	8.0 - 12.5	50	○
EM 5117 1 520	HP9-15	15	14.0 - 20.0	25	○
EM 5117 2 507	HP2-25	25	3.0 - 7.0	50	○
EM 5117 2 513	HP5-25	25	8.0 - 12.5	50	○
EM 5117 2 520	HP9-25	25	14.0 - 20.0	25	○


For use with static loads only.


Britclips® Master Clamps		Part number	Dimensions / Techn. details				Pack
Catalogue page J 15 105 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ various fixing possibilities to clamp (horizontal and vertical) ■ with thread connector M6 ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5342 0 717	MC	2 - 17	M6	Ø 6.5 mm	100 ●
		EP 5342 0 717	MC	2 - 17	M6	Ø 6.5 mm	25 ●
		EM 5342 1 117	MC10	2 - 17	M6	Ø 11.0 mm	100 ●
		For use with static loads only.					

Britclips® Master Clamps / Conduit Combination		Part number	Dimensions / Techn. details				Pack
Catalogue page J 15 110 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ various fixing possibilities to clamp (horizontal and vertical) ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5314 2 018	CH500	20	2 - 17	50 ○	
		EM 5314 2 518	CH750	25	2 - 17	50 ○	
		EM 5314 3 218	CH1000	32	2 - 17	50 ○	
		For use with static loads only.					

Britclips® Master Clamps / Side Mounted Conduit Clip		Part number	Dimensions / Techn. details				Pack
Catalogue page J 15 115 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ various fixing possibilities to clamp (horizontal and vertical) ■ suitable for pipe or cable fixing ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5314 2 017	CH500V	20	2 - 17	50 ○	
		EM 5314 2 517	CH750V	25	2 - 17	50 ○	
		EM 5314 3 217	CH1000V	32	2 - 17	50 ○	
		For use with static loads only.					

Britclips® Master Clamps / Double Locking Conduit Clip		Part number	Dimensions / Techn. details			Pack
Catalogue page J 15 120 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ suitable for pipe or cable fixing horizontal, vertical or crossed with respect to the flange ■ conduit clip swivels 360° ■ conduit clip with jaw locking (use pliers to lock) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5312 2 419	DCHL500	19 - 22	2 - 17	25 ○
		EM 5312 2 619	DCHL750	23 - 25	2 - 17	25 ○
		For use with static loads only.				

Britclips® Master Clamps / Light Duty Cable Tray Bracket		Part number	Dimensions / Techn. details			Pack
Catalogue page J 15 125 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ for light duty cable trays ■ material: Britclips® Master Clamps made of spring steel (type CS70); Britclips® Light Duty Cable Tray Bracket made of steel ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5392 0 017	MC-CTB		2 - 17	100 ○
		For use with static loads only.				

Britclips® Master Clamps / Locking Conduit Clip Combi		Part number	Dimensions / Techn. details			Pack
Catalogue page J 15 130 	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ suitable for pipe or cable fixing ■ conduit clip swivels 360° ■ conduit clip with jaw locking (use pliers to lock) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5312 2 418	CHL500	19 - 22	2 - 17	50 ○
		EM 5312 2 518	CHL575	20 - 25	2 - 17	50 ○
		EM 5312 2 618	CHL750	23 - 25	2 - 17	50 ○
		EM 5312 3 218	CHL1000	26 - 32	2 - 17	25 ○
		EM 5312 4 018	CHL1250	33 - 40	2 - 17	25 ○
		For use with static loads only.				

Britclips® Master Clamps / Side Mounted Locking Clips

Part number

Dimensions / Techn. details

Pack

Catalogue page J 15 135



- for a solid fixing to steel construction without the need for welding or drilling
- suitable for pipe or cable fixing
- conduit clip swivels 360°
- conduit clip with jaw locking (use pliers to lock)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5312 1 717	CHL250V	12 - 16	2 - 17	50	○
EM 5312 2 417	CHL500V	19 - 22	2 - 17	50	○
EM 5312 2 517	CHL575V	20 - 25	2 - 17	50	○
EM 5312 2 617	CHL750V	23 - 25	2 - 17	50	○
EM 5312 3 217	CHL1000V	26 - 32	2 - 17	25	○

For use with static loads only.

Britclips® Master Clamps / Threaded Rod Hangers

Part number

Dimensions / Techn. details

Pack

Catalogue page J 15 140



- for a solid fixing to steel construction without the need for welding or drilling
- with threaded rod holder (rod height adjustable by screwing)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5342 0 617	MRH6MT	2 - 17	M6	100	○
EM 5342 0 817	MRH8MT	2 - 17	M8	100	●
EM 5342 1 017	MRH10MT	2 - 17	M10	100	●
EM 5342 1 217	MRH12P	2 - 17	Ø 11.0 mm	100	○

For use with static loads only.

Britclips® Master Clamps / Adjustable Rod Hanger

Part number

Dimensions / Techn. details

Pack


Catalogue page J 15 145





- for a solid fixing to steel construction without the need for welding or drilling
- with threaded rod clip (rod height adjustable by sliding)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5362 0 617	MTRH6	2 - 17	M6	100	○
EM 5362 0 817	MTRH8	2 - 17	M8	100	○
EM 5362 1 017	MTRH10	2 - 17	M10	100	○

For use with static loads only.

Britclips® Master Clamps / Horizontal Stud M6 x9		Part number	Dimensions / Techn. details		Pack
Catalogue page J 15 150	 <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ with horizontal stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc. ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5352 0 617	MC-M69SH	2 - 17	100 ○
		For use with static loads only.			

Britclips® Master Clamp / Vertical Stud M6 x 9		Part number	Dimensions / Techn. details		Pack
Catalogue page J 15 155	 <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ with vertical stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc. ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5352 0 717	MC-M69SV	2 - 17	100 ○
		For use with static loads only.			

Britclips® Master Clamps / Cable Tie		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 15 160	 <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ various fixing possibilities to clamp (horizontal and vertical) ■ with saddle for cable tie attachment (up to width 7.6 mm) ■ material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5332 0 017	MCCT	2 - 17	No tie	100 ○
		EM 5332 1 417	MCCT-5.5	2 - 17	With tie (L = 160 mm)	50 ○
		EM 5332 2 517	MCCT-10	2 - 17	With tie (L = 292 mm)	50 ○
		For use with static loads only.				

Britclips® Cable Run Clips Flange 2-7 mm

Part number

Dimensions / Techn. details

Pack


Catalogue page J 20 105




- for quick fixing of cables
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)


Part number	Dimensions / Techn. details	Pack
EM 5202 0 604	CR25 4.5 - 5.5 2 - 4	100 ●
EM 5202 0 704	CR26 6.0 - 7.0 2 - 4	100 ●
EP 5202 0 704	CR26 6.0 - 7.0 2 - 4	25 ●
EM 5202 0 904	CR27 7.0 - 9.0 2 - 4	100 ●
EP 5202 0 904	CR27 7.0 - 9.0 2 - 4	25 ●
EM 5202 1 104	CR210 10.0 - 11.0 2 - 4	100 ●
EP 5202 1 104	CR210 10.0 - 11.0 2 - 4	25 ●
EM 5202 1 404	CR212 12.0 - 14.0 2 - 4	100 ●
EP 5202 1 404	CR212 12.0 - 14.0 2 - 4	25 ●
EM 5202 1 804	CR215 15.0 - 18.0 2 - 4	100 ●
EP 5202 1 804	CR215 15.0 - 18.0 2 - 4	25 ●
EM 5202 2 404	CR219 19.0 - 24.0 2 - 4	100 ●
EP 5202 2 404	CR219 19.0 - 24.0 2 - 4	25 ●
EM 5202 3 004	CR225 25.0 - 30.0 2 - 4	100 ●
EP 5202 3 004	CR225 25.0 - 30.0 2 - 4	25 ●
EM 5202 0 607	CR45 4.5 - 5.5 4 - 7	100 ●
EM 5202 0 707	CR46 6.0 - 7.0 4 - 7	100 ●
EP 5202 0 707	CR46 6.0 - 7.0 4 - 7	25 ●
EM 5202 0 907	CR47 7.0 - 9.0 4 - 7	100 ●
EP 5202 0 907	CR47 7.0 - 9.0 4 - 7	25 ●
EM 5202 1 107	CR410 10.0 - 11.0 4 - 7	100 ●
EP 5202 1 107	CR410 10.0 - 11.0 4 - 7	25 ●
EM 5202 1 407	CR412 12.0 - 14.0 4 - 7	100 ●
EP 5202 1 407	CR412 12.0 - 14.0 4 - 7	25 ●
EM 5202 1 807	CR415 15.0 - 18.0 4 - 7	100 ●
EP 5202 1 807	CR415 15.0 - 18.0 4 - 7	25 ●
EM 5202 2 407	CR419 19.0 - 24.0 4 - 7	100 ●
EP 5202 2 407	CR419 19.0 - 24.0 4 - 7	25 ●
EM 5202 3 007	CR425 25.0 - 30.0 4 - 7	100 ●
EP 5202 3 007	CR425 25.0 - 30.0 4 - 7	25 ●

For use with static loads only.

Britclips® Cable Run Clips Flange 8–12 mm		Part number	Dimensions / Techn. details				Pack
Catalogue page J 20 110		EM 5202 0 612	CR85	4.5 – 5.5	8 – 12	-	100 ●
		EM 5202 0 712	CR86	6.0 – 7.0	8 – 12	-	100 ●
	<ul style="list-style-type: none"> ■ for quick fixing of cables ■ Part No's EM/EP 5202 0 020: adaptor for fastening of maximum 3 cable run clips (type CR) ■ Part No's EM/EP 5202 0 020: adaptor for fastening of maximum 3 cable run clips (type CR) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EP 5202 0 712	CR86	6.0 – 7.0	8 – 12	-	25 ●
		EM 5202 0 912	CR87	7.0 – 9.0	8 – 12	-	100 ●
		EP 5202 0 912	CR87	7.0 – 9.0	8 – 12	-	25 ●
		EM 5202 1 112	CR810	10.0 – 11.0	8 – 12	-	100 ●
		EP 5202 1 112	CR810	10.0 – 11.0	8 – 12	-	25 ●
		EM 5202 1 412	CR812	12.0 – 14.0	8 – 12	-	100 ●
		EP 5202 1 412	CR812	12.0 – 14.0	8 – 12	-	25 ●
		EM 5202 1 812	CR815	15.0 – 18.0	8 – 12	-	100 ●
		EP 5202 1 812	CR815	15.0 – 18.0	8 – 12	-	25 ●
		EM 5202 2 412	CR819	19.0 – 24.0	8 – 12	-	100 ●
		EP 5202 2 412	CR819	19.0 – 24.0	8 – 12	-	25 ●
		EM 5202 3 012	CR825	25.0 – 30.0	8 – 12	-	100 ●
		EP 5202 3 012	CR825	25.0 – 30.0	8 – 12	-	25 ●
		EM 5202 0 020	CRA	-	12 – 20	Fits CR25 – CR225	100 ●
		EP 5202 0 020	CRA	-	12 – 20	Fits CR25 – CR225	25 ●

For use with static loads only.

Britclips® Slide-on Cable Clip		Part number	Dimensions / Techn. details			Pack
Catalogue page J 20 115	 <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ for quick fixing of cables ■ material: spring steel (type CS70) ■ zinc plated 	EM 5202 0 806	SOCC1	6 – 8	3 – 6	100 ○
		For use with static loads only.				

Britclips® Cable Run / Cable Tie Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 20 120	 <ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ suitable for horizontal and vertical flanges ■ for quick fixing of round or flat cables parallel to flange ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5232 3 412	CRCT2-12		3 – 12	100 ●
		EM 5232 3 425	CRCT12-20		12 – 25	100 ●
		For use with static loads only.				

Britclips® Slide-on Cable Clip (SOCC2)

Part number

Dimensions / Techn. details

Pack

Catalogue page J 20 125



- for a solid fixing to steel construction without the need for welding or drilling
- for quick fixing of cables
- material: spring steel (type CS70)
- zinc plated

EM 5202 1 009

SOCC2

8 - 10

3 - 9

100

○

For use with static loads only.

Britclips® Slide-on Cable Clips (CG)

Part number

Dimensions / Techn. details

Pack

Catalogue page J 20 130



- for a solid fixing to steel construction without the need for welding or drilling
- for quick fixing of cables
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5202 1 609

CG16

3 - 16

3 - 5 / 5 - 7

48 mm

100

○

EM 5202 2 009

CG20

7 - 20 / 7 - 12

8 - 9 / 10 - 11

41 mm

100

●

When flange thickness increases, value of the thickness of the cable decreases.
For use with static loads only.

Britclips® Support Clips

Part number

Dimensions / Techn. details

Pack

Catalogue page J 25 105



- for quick fixing to threaded rods or flanges without welding or drilling
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5592 1 606

SC500

16

4 - 7

M6

100

○

EM 5592 2 008

SC750

16 - 20

6 - 9

M6 - M8

100

●

EP 5592 2 008

SC750

16 - 20

6 - 9

M6 - M8

25

●

EM 5592 2 510

SC1000

25 / 16 - 20

6 - 9

M6 - M8 / M10

100

●

EP 5592 2 510

SC1000

25 / 16 - 20

6 - 9

M6 - M8 / M10

25

●

EM 5592 3 210

SC1250

32 / 25 - 32


6 - 9

M6 - M8 / M10


50

●


For use with static loads only.

Britclips® Utility Clips / Cable Tie		Part number	Dimensions / Techn. details					Pack
<p>Catalogue page J 25 110</p>  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling with saddle for cable tie attachment (up to width 7.6 mm) material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 	EM 5539 0 008	UCCT	3 - 7	No tie	M4 - M8	50	○	
	EM 5539 1 408	UCCT-5.5	3 - 7	With tie (L = 160 mm)	M4 - M8	50	○	
	EM 5539 2 508	UCCT-10	3 - 7	With tie (L = 292 mm)	M4 - M8	50	○	
	EM 5539 0 012	UCCT37	9 - 14	No tie	M10 - M12	50	○	
	EM 5539 1 412	UCCT37-5.5	9 - 14	With tie (L = 160 mm)	M10 - M12	50	○	
	EM 5539 2 512	UCCT37-10	9 - 14	With tie (L = 292 mm)	M10 - M12	50	○	


For use with static loads only.


Britclips® Utility Clips		Part number	Dimensions / Techn. details					Pack
<p>Catalogue page J 25 115</p>  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling with female thread or hole for universal use material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5502 0 008	UC250	3 - 7	M4 - M8	M4	100	●	
	EM 5502 0 012	UC375	9 - 14	M10 - M12	Ø 6.5 mm	100	●	

For use with static loads only.


Britclips® Utility Conduit Clips		Part number	Dimensions / Techn. details					Pack
<p>Catalogue page J 25 120</p>  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling conduit clip swivels 360° material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5514 2 008	UCC500	20	3 - 7	M4 - M8	50	○	
	EM 5514 2 508	UCC750	25	3 - 7	M4 - M8	25	○	
	EM 5514 3 207	UCC1000	32	3 - 7	M4 - M8	25	○	
	EM 5514 2 012	UCC37-50	20	9 - 14	M10 - M12	25	○	
	EM 5514 2 512	UCC37-75	25	9 - 14	M10 - M12	25	○	


For use with static loads only.


Britclips® Utility Locking Conduit Clips		Part number	Dimensions / Techn. details					Pack
<p>Catalogue page J 25 125</p>  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling conduit clip swivels 360° 	EM 5512 1 708	ULCC25	12 - 16	3 - 7	M4 - M8	50	○	
	EM 5512 2 408	ULCC50	19 - 22	3 - 7	M4 - M8	25	○	
	EM 5512 2 608	ULCC75	23 - 25	3 - 7	M4 - M8	25	○	
	EM 5512 2 508	ULCC575	20 - 25	3 - 7	M4 - M8	25	○	
	EM 5512 3 208	ULCC100	26 - 32	3 - 7	M4 - M8	25	○	


Britclips® Utility Locking Conduit Clips		Part number	Dimensions / Techn. details				Pack
 <ul style="list-style-type: none"> conduit clip with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5512 4 008	ULCC125	33 - 40	3 - 7	M4 - M8	25	○
	EM 5512 1 712	ULCC37-25	12 - 16	9 - 14	M10 - M12	25	○
	EM 5512 2 412	ULCC37-50	19 - 22	9 - 14	M10 - M12	25	○
	EM 5512 2 612	ULCC37-75	23 - 25	9 - 14	M10 - M12	25	○
	EM 5512 2 512	ULCC37-575	20 - 25	9 - 14	M10 - M12	25	○
	EM 5512 3 212	ULCC37-100	26 - 32	9 - 14	M10 - M12	25	○


For use with static loads only.


Britclips® Utility Clips / Light Duty Cable Tray Brackets		Part number	Dimensions / Techn. details			Pack
Catalogue page J 25 130  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling for light duty cable trays material: Britclips® Utility Clips made of spring steel (type CS70); Britclips® Light Cable Tray Support Bracket made of steel surface treatment: Delta-Tone 9000 (480 hours) 	EM 5592 0 008	UC250-CTB	3 - 7	M4 - M8	50	●
	EM 5592 0 012	UC375-CTB	9 - 14	M10 - M12	50	●
	For use with static loads only.					


Britclips® Height Adjustable Threaded Rod Hangers		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 25 135  <ul style="list-style-type: none"> for fixing to vertical faces clip flexes to allow rapid adjustment of threaded rod material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5965 0 006	TRH6		M6	100	○
	EM 5962 0 008	TRH8		M8	100	○
	EM 5962 0 010	TRH10		M10	100	○
	For use with static loads only.					


Britclips® Adjustable Rod Hanger Extension Clips		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 25 140  <ul style="list-style-type: none"> double clip for fixing steel rod to steel rod height adjustment achieved by flexing clips material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5969 0 606	TRHX6-6		M6 / M6	100	○
	EM 5969 0 808	TRHX8-8		M8 / M8	100	○
	EM 5969 1 010	TRHX10-10		M10 / M10	100	○
	For use with static loads only.					


Britclips® Utility Clips / Tie Wrap		Part number	Dimensions / Techn. details		Pack
Catalogue page J 25 145  <ul style="list-style-type: none"> for quick fixing to threaded rods or flanges without welding or drilling material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 	EM 5593 0 835	UC250-PCT	M4 - M8	50	○
	EM 5593 1 235	UC375-PCT	M10 - M12	50	○
Cable tie not supplied. For use with static loads only.					


Britclips® Deck Hanger		Part number	Dimensions / Techn. details		Pack
Catalogue page J 30 105  <ul style="list-style-type: none"> for fixing to roofing sheets with fixing hole (Ø 6.5 mm) to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5402 0 000	HDC	6.5	100	○
For use with static loads only. Safe load dependent on thickness of roof sheet.					


Britclips® Threaded Rod Deck Hangers		Part number	Dimensions / Techn. details		Pack
Catalogue page J 30 115  <ul style="list-style-type: none"> for fixing to roofing sheets with threaded rod holder (rod height adjustable by screwing) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5442 0 600	HDC6MT	M6	100	○
	EM 5442 0 800	HDC8MT	M8	100	○
	EM 5442 1 000	HDC10MT	M10	100	○
	EM 5442 1 100	HDC12P	Ø 11.0 mm	100	○
For use with static loads only. Safe load dependent on thickness of roof sheet.					


Britclips® Adjustable Rod Deck Hangers		Part number	Dimensions / Techn. details		Pack
Catalogue page J 30 120  <ul style="list-style-type: none"> for fixing to roofing sheets with threaded rod holder (rod height adjustable by screwing) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5462 0 800	HDCTRH8	M8	100	○
	EM 5462 1 000	HDCTRH10	M10	100	○
For use with static loads only. Safe load dependent on thickness of roof sheet.					


Britclips® Multiwedge Deck Hangers		Part number	Dimensions / Techn. details		Pack
Catalogue page J 30 125  <ul style="list-style-type: none"> ■ for fixing to Ward Multideck 60 and Multideck 80 ■ for providing threaded rod suspension ■ zinc plated 	EM 5899 2 006	LMW6	M6	50	●
	EM 5899 2 008	LMW8	M8	50	●
	EM 5899 2 010	LMW10	M10	50	●
	For use with static loads only. Safe load dependent on thickness of roof sheet.				


Britclips® Alphawedge Deck Hangers		Part number	Dimensions / Techn. details		Pack
Catalogue page J 30 130  <ul style="list-style-type: none"> ■ for fixing to Richard Lee Ribdeck AL, Ribdeck E60 and Ribdeck 80 ■ for providing threaded rod suspension ■ zinc plated 	EM 5899 1 006	LAW6	M6	50	○
	EM 5899 1 008	LAW8	M8	50	○
	EM 5899 1 010	LAW10	M10	50	●
	For use with static loads only. Safe load dependent on thickness of roof sheet.				


Britclips® T Bar / Twist On Clips (AC)		Part number	Dimensions / Techn. details		Pack
Catalogue page J 35 105  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with stud bolt M6 (length see table) for fixing of clamp, conduit junction box, etc. ■ spin nut included ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5652 1 603	AC15	M6 x 16 mm	15	100 ●
	EM 5652 1 604	AC25	M6 x 16 mm	25	100 ●
	EP 5652 1 604	AC25	M6 x 16 mm	25	25 ●
	EM 5652 5 104	AC25-2	M6 x 51 mm	25	100 ○
	For use with static loads only.				





Britclips® T Bar / Twist On Clips (OAC)		Part number	Dimensions / Techn. details		Pack
Catalogue page J 35 110  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with stud bolt M6 (length see table) for fixing of clamp, conduit junction box, etc. ■ spin nut included ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5652 0 907	OAC25-9		9	100 ○
	EM 5652 1 607	OAC25-16		16	100 ●
	EM 5652 2 507	OAC25-25		25	100 ●
	EM 5652 3 807	OAC25-38		38	100 ○
	For use with static loads only.				


Britclips® T Bar Clip		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 35 115</p>  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with stud bolt M6 (length see table) for fixing of clamp, conduit junction box, etc. ■ two-part adjustment, for fixing without damaging the grid ■ spin nut included ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5652 0 627	AC1000	16	100 ●
		EM 5652 0 657	AC1000-2	50	100 ○
		EM 5602 0 106	OSN6M	-	100 ○
		For use with static loads only.			


Britclips® Sign Hanger		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 35 120</p>  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with fixing hole (Ø 6.5 mm) to fix S-hook, bolt/nut, etc. ■ material: spring steel (type CS70) ■ bright zinc plated 		EM 5603 1 025	HSH3	6.5	100 ○
		For use with static loads only.			


Britclips® Decor Sign Hangers		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 35 125</p>  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with fixing hole (Ø 7.0 mm) to fix S-hook, etc. ■ material: spring steel (type CS70) 		EM 5609 0 025	HSH2	7.0	epoxy-coated (white)	100 ○
		EM 5603 0 025	HSH2-A	7.0	Delta-Tone 9000 (480 hours)	100 ○
		For use with static loads only.				


Britclips® Sign Hanger		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 35 130</p>  <ul style="list-style-type: none"> ■ twist on fixing ■ for fixing to the ceiling grid ■ with fixing hole (Ø 7.0 mm) to fix S-hook, etc. ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5602 0 725	HSH	7.0	100 ●
		For use with static loads only.			


Britclips® T Bar Straight Bracket		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 135	<ul style="list-style-type: none"> ■ for fixing to the ceiling grid ■ straight, with hole (Ø 6.5 mm) for universal connection ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 0 002	ABCS	6.5	100 ●
		For use with static loads only.			
Britclips® T Bar Angle Bracket		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 140	<ul style="list-style-type: none"> ■ for fixing to the ceiling grid ■ angle bracket 90° ■ with drilling hole (Ø 6.5 mm) for a universal connection ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 0 001	ABC	6.5	100 ○
		For use with static loads only.			
Britclips® T Bar Angle Bracket / Vertical Stud		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 145	<ul style="list-style-type: none"> ■ for fixing to the ceiling grid ■ with stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc. ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 0 601	ABC-M69SV	100	○ ●
		For use with static loads only.			
Britclips® T Bar Angle Conduit Clips		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 150	<ul style="list-style-type: none"> ■ for fixing to the ceiling grid ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 1 020	ABC500	20	100 ○
		EM 5602 1 025	ABC750	25	100 ○
		For use with static loads only.			


Britclips® T Bar Straight Conduit Clips		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 155 	<ul style="list-style-type: none"> for fixing to the ceiling grid conduit clip swivels 360° material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 2 020	ABCS500	20	100 ○
		EM 5602 2 025	ABCS750	25	100 ○
For use with static loads only.					


Britclips® T Bar Angle / Locking Conduit Clips		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 160 	<ul style="list-style-type: none"> for fixing to the ceiling grid conduit clip swivels 360° conduit clip with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 1 517	ABC25L	12 - 16	100 ○
		EM 5602 1 524	ABC50L	19 - 22	100 ○
		EM 5602 1 526	ABC75L	23 - 25	100 ○
		EM 5602 1 525	ABC575L	20 - 25	100 ○
For use with static loads only.					


Britclips® T Bar Straight / Locking Conduit Clips		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 165 	<ul style="list-style-type: none"> for fixing to the ceiling grid conduit clip swivels 360° conduit clip with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5602 2 525	ABCS75L	23 - 25	100 ○
		EM 5602 2 532	ABCS100L	26 - 32	100 ○
For use with static loads only.					


Britclips® Universal Hold Down Clip		Part number	Dimensions / Techn. details	Pack	
Catalogue page J 35 170 	<ul style="list-style-type: none"> for fixing to the ceiling grid hold suspended ceiling panels in position with the grid material: spring steel (type CS70) 	EM 5695 0 000	HSC2		100 ○
For use with static loads only.					


Britclips® T Bar Angle Brackets Cable Tie		Part number	Dimensions / Techn. details		Pack
Catalogue page J 35 175  <ul style="list-style-type: none"> for fixing of cables on top of ceiling grid with saddle for cable tie attachment (up to width 7.6 mm) material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 		EM 5602 1 090	ABCT	No tie	100 ○
		EM 5602 1 096	ABCT-5.5	With tie (L = 160 mm)	100 ○
		EM 5602 1 095	ABCT-10	With tie (L = 292 mm)	100 ○
		For use with static loads only.			


Britclips® Z Purlin Hangers		Part number	Dimensions / Techn. details				Pack
Catalogue page J 40 103  <ul style="list-style-type: none"> hold fast 45° for fixing to purlins with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5702 0 103	ZP1	≤2.5	48	6.5	100 ●
		EM 5702 0 203	ZP2	≤2.5	41	6.5	100 ○
		For use with static loads only.					


Britclips® Angled Profile Clip		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 106  <ul style="list-style-type: none"> hold fast 45° for fixing to purlins with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5702 0 105	ZP3	1 - 5	6.5	100 ●
		For use with static loads only.				


Britclips® Z Purlin / Vertical Stud M6 x 9		Part number	Dimensions / Techn. details		Pack
Catalogue page J 40 109	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ with stud bolt M6 x 9 mm for fixing of clamp, conduit junction box, etc. ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5752 0 603	ZP-M69SV	≤2.5	100 ○
		For use with static loads only.			


Britclips® Z Purlin Cable Tie		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 40 112	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ with saddle for cable tie attachment (up to width 7.6 mm) ■ material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5735 0 003	ZPCT	max 2.5	No tie	100 ○
		EM 5735 1 403	ZPCT-5.5	max 2.5	With tie (L = 160 mm)	100 ○
		EM 5735 2 503	ZPCT-10	max 2.5	With tie (L = 292 mm)	100 ○
		For use with static loads only.				


Britclips® Z Purlin Threaded Rod Hangers		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 40 115	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ with threaded rod holder (rod height adjustable by screwing) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5743 0 603	ZP6MT	≤2.5	M6	100 ●
		EM 5742 0 803	ZP8MT	≤2.5	M8	100 ●
		EM 5742 1 003	ZP10MT	≤2.5	M10	100 ●
		EM 5742 1 103	ZP12P	≤2.5	Ø 11.0 mm	100 ○
		For use with static loads only.				

Britclips® Z Purlin Strap Hangers		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 40 118	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ with threaded rod clip (rod height adjustable by sliding) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5765 0 803	ZPTRH8	≤2.5	M8	100 ○
		EM 5765 1 003	ZPTRH10	≤2.5	M10	100 ○
		For use with static loads only.				

Britclips® Z Purlin Strap Hangers		Part number	Dimensions / Techn. details				Pack
Catalogue page J 40 121	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ with provision for fixing of suspension band up to width 25 mm ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5772 0 099	ZPSH	≤2.5	66	100	○
		For use with static loads only.					

Britclips® Z Purlin Conduit Clips		Part number	Dimensions / Techn. details				Pack	
Catalogue page J 40 124	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5713 2 003	ZP50	20	≤2.5	58.0	50	○
		EM 5713 2 503	ZP75	25	≤2.5	62.5	50	○
		EM 5713 3 203	ZP100	32	≤2.5	63.0	50	○
		For use with static loads only.						

Britclips® Z Purlin / Locking Conduit Clips		Part number	Dimensions / Techn. details				Pack	
Catalogue page J 40 127	<ul style="list-style-type: none"> ■ hold fast 45° ■ for fixing to purlins ■ conduit clip swivels 360° ■ conduit clip with jaw locking (use pliers to lock) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5712 1 703	ZP25L	12 - 16	≤2.5	57	50	○
		EM 5712 2 403	ZP50L	19 - 22	≤2.5	61	50	○
		EM 5712 2 603	ZP75L	23 - 25	≤2.5	63	50	○
		EM 5712 2 503	ZP575L	20 - 25	≤2.5	63	50	○
		EM 5712 3 203	ZP100L	26 - 32	≤2.5	70	50	○
		For use with static loads only.						

Britclips® Purlin Clamp		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 130	<ul style="list-style-type: none"> ■ hold fast 90° ■ for fixing to purlins ■ pre-galvanized 	EM 5702 0 025	HPC1	11	100	●
		For use with static loads only.				

Britclips® Purlin Clip		Part number	Dimensions / Techn. details	Pack
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Catalogue page J 40 133



- hold fast 90°
- for fixing to purlins
- with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc.
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5702 0 015	HPC2	6.5	100	●
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For use with static loads only.

Britclips® Purlin Clips / Locking Conduit Clip		Part number	Dimensions / Techn. details	Pack
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Catalogue page J 40 136



- hold fast 90°
- for fixing to purlins
- conduit clip swivels 360°
- conduit clip with jaw locking (use pliers to lock)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5715 2 415	HPC50L	19 - 22	50	○
EM 5715 2 615	HPC75L	23 - 25	50	○
EM 5715 2 515	HPC575L	20 - 25	50	○
EM 5715 4 015	HPC125L	33 - 40	50	○

For use with static loads only.

Britclips® Purlin Clips / Threaded Rod Hangers		Part number	Dimensions / Techn. details	Pack
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Catalogue page J 40 139



- hold fast 90°
- for fixing to purlins
- with threaded rod holder (rod height adjustable by screwing)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5742 0 615	HPC6MT	M6	100	○
EM 5742 0 815	HPC8MT	M8	100	●
EM 5742 1 015	HPC10MT	M10	100	●
EM 5742 1 115	HPC12P	Ø 11.0 mm	100	○

For use with static loads only.

Britclips® Purlin Clips / Threaded Rod Hanger		Part number	Dimensions / Techn. details	Pack
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Catalogue page J 40 142





- hold fast 90°
- for fixing to purlins
- with threaded rod clip (rod height adjustable by sliding)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)


EM 5733 0 615	HPCTRH6	M6	100	●
EM 5733 0 815	HPCTRH8	M8	100	●
EM 5733 1 015	HPCTRH10	M10	100	●


For use with static loads only.


Britclips® Purlin Clips / Cable Tie		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 40 145  <ul style="list-style-type: none"> hold fast 90° for fixing to purlins with saddle for cable tie attachment (up to width 7.6 mm) material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 		EM 5732 0 015	HPCCT	No tie		100	○
		EM 5732 1 415	HPCCT-5.5	With tie (L = 160 mm)		100	○
		EM 5732 2 515	HPCCT-10	With tie (L = 292 mm)		100	○
		For use with static loads only.					


Britclips® Z Purlin Web Clamp		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 40 148  <ul style="list-style-type: none"> suitable for a variety of loads via 10 mm threaded rod suspension fixing will rotate to allow drops at up to 30° from vertical to accommodate slopes zinc plated 		EM 5799 0 010	ZWF	M10		100	○
		For use with static loads only.					


Britclips® Vertical Flange Clips		Part number	Dimensions / Techn. details				Pack	
Catalogue page J 40 151  <ul style="list-style-type: none"> for fixing to vertical flanges with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5702 0 005	VF1	1 - 5	39	6.5	100	●
		EP 5702 0 005	VF1	1 - 5	39	6.5	25	●
		EM 5702 0 007	VF2	5 - 7	40	6.5	100	●
		For use with static loads only.						


Britclips® Vertical Flange Clip (zp)		Part number	Dimensions / Techn. details				Pack	
Catalogue page J 40 152  <ul style="list-style-type: none"> for fixing to vertical flanges with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) zinc plated 		EM 5702 9 005	VF1	1 - 5	39	6.5	1,000	●
		For use with static loads only.						


Britclips® Light Duty Flange Clip		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 154	<ul style="list-style-type: none"> for fixing to vertical flanges with fixing hole (Ø 6.5 mm) horizontal to fix S-hook, bolt/nut, etc. material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5702 0 605	VF3	1 - 5	6.5	100 ○
		For use with static loads only.				


Britclips® Vertical Flange Cable Saddle		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 157	<ul style="list-style-type: none"> for fixing to vertical flanges with saddle for cable tie attachment (up to width 7.6 mm) material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 	EM 5732 0 005	VFCT1	1 - 5	No tie	100 ○
		EM 5732 1 405	VFCT1-5.5	1 - 5	With tie (L = 160 mm)	100 ○
		EM 5732 2 505	VFCT1-10	1 - 5	With tie (L = 292 mm)	100 ○
		EM 5732 0 007	VFCT2	5 - 7	No tie	100 ○
		EM 5732 1 407	VFCT2-5.5	5 - 7	With tie (L = 160 mm)	100 ○
		EM 5732 2 507	VFCT2-10	5 - 7	With tie (L = 292 mm)	100 ○
		For use with static loads only.				


Britclips® Vertical Flange Threaded Rod Hangers		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 160	<ul style="list-style-type: none"> for quick and easy fixing to vertical flanges with threaded rod holder (rod height adjustable by screwing) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5742 0 605	VF1-6MT	1 - 5	M6	100 ●
		EM 5742 0 805	VF1-8MT	1 - 5	M8	100 ●
		EM 5742 1 005	VF1-10MT	1 - 5	M10	100 ●
		EM 5742 1 105	VF1-12P	1 - 5	Ø 11.0 mm	100 ○
		EM 5742 0 607	VF2-6MT	5 - 7	M6	100 ○
		EM 5742 0 807	VF2-8MT	5 - 7	M8	100 ●
		EM 5742 1 007	VF2-10MT	5 - 7	M10	100 ●
		EM 5742 1 107	VF2-12P	5 - 7	Ø 11.0 mm	100 ○
		For use with static loads only.				


Britclips® Vertical Flange Strap Hangers		Part number	Dimensions / Techn. details		Pack
Catalogue page J 40 163		EM 5772 0 005	VF1-SH	1 - 5	100 ○
		EM 5772 0 105	VF1-SHR	1 - 5	100 ○
	<ul style="list-style-type: none"> ■ suspension parallel or at right angle to edge of flange ■ for fixing to vertical flanges ■ with provision for fixing of suspension band up to width 28 mm ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5772 0 007	VF2-SH	5 - 7	100 ○
		EM 5772 0 107	VF2-SHR	5 - 7	100 ○
For use with static loads only.					


Britclips® Z Purlin Clamp		Part number	Dimensions / Techn. details		Pack
Catalogue page J 40 166		EM 5743 1 185	ZHD2	Ø 11 mm	50 ●
<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ for threaded rod up to M10 ■ zinc plated 		For use with static loads only.			


Britclips® Vertical Flange / Snap-in Cable Clips		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 40 169		EM 5729 1 005	VFD1-10	10	1 - 5	100 ○
<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ with clip for pipe - or cable fixing ■ material: bracket made of spring steel (type CS70); clip of PA (polyamide), black ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5729 2 005	VFD1-20	20	1 - 5	100 ○
		EM 5729 2 007	VFD2-20	20	5 - 7	100 ○
For use with static loads only.						

Britclips® Vertical Flange Clips / Conduit Clip Combi		Part number	Dimensions / Techn. details		Pack	
Catalogue page J 40 172		EM 5716 2 005	VFC1-50	20	1 - 5	100 ○
<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ suitable for pipe or cable fixing ■ holds services away from face of flange ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5716 2 007	VFC2-50	20	5 - 7	100 ○
		EM 5716 2 505	VFC1-75	25	1 - 5	100 ○
		EM 5716 3 205	VFC1-100	32	1 - 5	100 ○
For use with static loads only.						

Britclips® Vertical Flange Clips / Reversed Conduit Combi		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 175 	<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ suitable for pipe or cable fixing ■ conduit clip swivels 360° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5717 2 007	VFCL2-50R	20	5 - 7	100 ○
		For use with static loads only.				

Britclips® Vertical Flange Clips / Locking Conduit Combi		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 178 	<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ suitable for pipe or cable fixing ■ conduit clip swivels 360° ■ conduit clip with jaw locking (use pliers to lock) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5718 2 405	VFCL1-50	19 - 22	1 - 5	100 ○
		EM 5718 2 605	VFCL1-75	23 - 25	1 - 5	100 ○
		EM 5718 2 505	VFCL1-575	20 - 25	1 - 5	100 ○
		EM 5718 3 205	VFCL1-100	26 - 32	1 - 5	100 ○
		EM 5718 2 407	VFCL2-50	19 - 22	5 - 7	100 ○
		EM 5718 2 607	VFCL2-75	23 - 25	5 - 7	100 ○
		EM 5718 2 507	VFCL2-575	20 - 25	5 - 7	50 ○
For use with static loads only.						

Britclips® Vert Flange Clips / Rev Locking Conduit Combi		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 181 	<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ suitable for pipe or cable fixing ■ conduit clip swivels 360° ■ conduit clip with jaw locking (use pliers to lock) ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5719 2 405	VFCL1-50R	20	1 - 5	100 ○
		EM 5719 2 605	VFCL1-75R	25	1 - 5	100 ○
		EM 5719 2 407	VFCL2-50R	20	5 - 7	100 ○
For use with static loads only.						

Britclips® Vertical Flange / Double Cable Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 40 184 	<ul style="list-style-type: none"> ■ for fixing to vertical flanges ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5722 0 005	VF1-DCC	7 - 12	1 - 7	50 ○
For use with static loads only.						

Britclips® Vertical Flange Adjustable Rod Hangers

Part number

Dimensions / Techn. details

Pack

Catalogue page J 40 187



- for fixing to vertical flanges
- with threaded rod clip (rod height adjustable by sliding)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5762 0 605	VF1-TRH6	1 - 5	M6	100	○
EM 5762 0 805	VF1-TRH8	1 - 5	M8	100	○
EM 5762 1 005	VF1-TRH10	1 - 5	M10	100	○
EM 5762 0 607	VF2-TRH6	5 - 7	M6	100	○
EM 5762 0 807	VF2-TRH8	5 - 7	M8	100	○
EM 5762 1 007	VF2-TRH10	5 - 7	M10	100	○

For use with static loads only.

Britclips® Angled Profile Cable Tie Clips

Part number

Dimensions / Techn. details

Pack

Catalogue page J 40 190



- hold fast 45°
- for fixing to purlins
- with saddle for cable tie attachment (up to width 7.6 mm)
- material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5737 1 400	ZP3-CT10	1 - 5	With tie (L = 292 mm)	100	○
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For use with static loads only.

Britclips® Angled Profile Clips / Rod Hanger

Part number

Dimensions / Techn. details

Pack

Catalogue page J 40 193



- hold fast 45°
- for fixing to purlins
- with threaded rod holder (rod height adjustable by screwing)
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5743 0 605	ZP3-6MT	1 - 5	M6	100	○
EM 5743 0 805	ZP3-8MT	1 - 5	M8	100	○
EM 5743 1 005	ZP3-10MT	1 - 5	M10	100	○

For use with static loads only.

Britclips® Angled Profile Conduit Clips

Part number

Dimensions / Techn. details

Pack


Catalogue page J 40 196





- hold fast 45°
- for fixing to purlins
- suitable for pipe or cable fixing
- conduit clip swivels 360°
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)


EM 5790 1 705	ZP3-25L	12 - 16	1 - 5	100	○
EM 5790 2 505	ZP3-575L	20 - 25	1 - 5	50	○

For use with static loads only.

Britclips® Suspension Clip / Single Clips		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 45 105</p>  <ul style="list-style-type: none"> for fixing to composite flooring systems with thread connection or fixing hole for universal fixing material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5842 0 619	HOL3-6MT	M6	100 ○
		EM 5842 0 819	HOL3-8MT	M8	100 ○
		EM 5842 1 019	HOL3-10-MT	M10	100 ○
		EM 5842 1 119	HOL3-10P	Ø 10.5 mm	100 ○
		For use with static loads only.			

Britclips® Suspension Clip / Conduit Clips		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 45 110</p>  <ul style="list-style-type: none"> for fixing to composite flooring systems conduit clip with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5812 1 719	HOL25L	11 - 17	100 ○
		EM 5812 2 619	HOL75L	23 - 25	100 ○
		EM 5812 2 519	HOL575L	20 - 25	50 ○
		For use with static loads only.			

Britclips® Dovetail Cable Hangers		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page J 45 115</p>  <ul style="list-style-type: none"> for fixing to composite flooring systems simple push in fixing for fixing up to 4 cables rotates through 360° material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5822 1 216	HOL2-1	12 - 16	100 ●
		EM 5822 1 222	HOL2-2	17 - 22	100 ●
		For use with static loads only.			

Britclips® Dovetail Cable Hangers		Part number	Dimensions / Techn. details		Pack	
<p>Catalogue page J 45 120</p>  <ul style="list-style-type: none"> for fixing to composite flooring systems for cable fixing in roof deck material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5822 0 001	HOL2-SC	6	12 - 16	100 ●
		EM 5822 0 002	HOL2-LC	6	17 - 22	100 ●
		For use with static loads only.				

Britclips® Dovetail Cable Hanger	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 45 125



- for fixing to composite flooring systems
- also anchors CR25-CR225 Cable Clips
- with provision for fixing of cable flange clip
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5822 0 000	HOL1	20	100 ●
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For use with static loads only.

Britclips® Wedge Nuts	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 45 30



- for fixing to composite flooring systems
- with thread connector
- material: steel
- zinc plated

621 3 006	HW6	M6	12.5 mm	15.0°	100 ●
621 3 008	HW8	M8	12.5 mm	15.0°	100 ●
621 3 010	HW10	M10	12.5 mm	15.0°	100 ●
621 3 106	HW6SR	M6	13.0 mm	11.5°	100 ●
621 3 108	HW8SR	M8	13.0 mm	11.5°	100 ●
621 3 110	HW10SR	M10	13.0 mm	11.5°	100 ●
621 3 206	HMWA6	M6	10.0 mm	23.5°	100 ●
621 3 208	HMWA8	M8	10.0 mm	23.5°	100 ●
621 3 406	HMW6	M6	9.5 mm	14.0°	100 ●
621 3 408	HMW8	M8	9.5 mm	14.0°	100 ●

For use with static loads only.

Britclips® TR60 Deck Hangers	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 45 130





- for fixing to SNO deck type TR60 and TR80
- zinc plated


EM 5899 3 006	LTR6	M6	50 ○
EM 5899 3 008	LTR8	M8	50 ○
EM 5899 3 010	LTR10	M10	50 ○


For use with static loads only.

Britclips® Push Nuts		Part number	Dimensions / Techn. details		Pack
Catalogue page J 50 102  <ul style="list-style-type: none"> for retention of threaded rod material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 		EM 5942 0 688	PN6	M6	100 ●
		EM 5942 0 888	PN8	M8	100 ●
		EM 5942 1 088	PN10	M10	100 ●
For use with static loads only.					


Britclips® Suspension Clips		Part number	Dimensions / Techn. details		Pack
Catalogue page J 50 104  <ul style="list-style-type: none"> general purpose clip to support light fittings material: steel zinc plated 		EM 5903 0 000	HSC1		100 ●
		EP 5903 0 000	HSC1		25 ●
For use with static loads only.					

Britclips® Bridle Ring		Part number	Dimensions / Techn. details		Pack
Catalogue page J 50 106  <ul style="list-style-type: none"> universally applicable cable(bundle) holder with thread M6 material: steel zinc plated 		EM 5903 0 600	BR500		50 ○
For use with static loads only.					


Britclips® Wall Plug		Part number	Dimensions / Techn. details		Pack
Catalogue page J 50 108  <ul style="list-style-type: none"> for wall or soffit fixing anchors cable ties material: PA (polyamide), black 		EM 5932 0 737	WPB		100 ●
For use with static loads only.					

Britclips® Locking Conduit Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 110  <ul style="list-style-type: none"> universally applicable with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5912 1 700	HLCC25	11 - 17	6.5	100	○
	EM 5912 2 400	HLCC50	18 - 24	6.5	100	○
	EM 5912 2 600	HLCC75	22 - 26	6.5	100	○
	EM 5912 2 500	HLCC575	20 - 25	6.5	100	○
	EM 5912 3 200	HLCC100	30 - 32	6.5	50	○
	EM 5912 4 000	HLCC125	36 - 40	6.5	50	○


For use with static loads only.

Britclips® Threaded Rod Hanger		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 112  <ul style="list-style-type: none"> stud bolts adjustable material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5942 0 600	RH6MT	M6	6.8	100	●
	EM 5942 0 800	RH8MT	M8	6.8	100	●
	EM 5942 1 000	RH10MT	M10	6.8	100	●
	EM 5942 1 100	RH12P	Ø 11.0 mm	6.8	100	○


For use with static loads only.


Britclips® Right Angle Brackets		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 114  <ul style="list-style-type: none"> angle bracket 90° with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. material: steel surface treatment: Delta-Tone 9000 (480 hours) 	EM 5902 0 000	RHA		Ø 6.5	100	●
	EM 5902 0 001	RHA2		Ø 11.0	100	○


For use with static loads only.

Britclips® Straight Shank Bracket		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 116  <ul style="list-style-type: none"> straight bracket material: steel surface treatment: Delta-Tone 9000 (480 hours) 	EM 5902 0 003	RHS		6.5	100	○

For use with static loads only.

Britclips® Right Angle Threaded Rod Hangers		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 118  <ul style="list-style-type: none"> ■ angle bracket 90° ■ with threaded rod holder (rod height adjustable by screwing) ■ material: Britclips® Threaded Rod Hanger made of spring steel (type CS70); Britclips® Right Angle Bracket made of steel ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5942 0 601	RHA-6MT	M6	6.5	100 ●
		EM 5942 0 801	RHA-8MT	M8	6.5	100 ●
		EM 5942 1 001	RHA-10MT	M10	6.5	100 ●
		EM 5942 1 101	RHA-12P	Ø 11.0 mm	6.5	100 ○
	For use with static loads only.					

Britclips® Straight Shank Threaded Rod Hangers		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 120  <ul style="list-style-type: none"> ■ straight bracket ■ with fixing hole (Ø 6.5 mm) vertical to fix S-hook, bolt/nut, etc. ■ with threaded rod holder (rod height adjustable by screwing) ■ material: Britclips® Threaded Rod Hanger made of spring steel (type CS70); Britclips® Straight Shank Bracket made of steel ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5942 0 603	RHS-6MT	M6	6.5	100 ○
		EM 5942 0 803	RHS-8MT	M8	6.5	100 ○
		EM 5942 1 003	RHS-10MT	M10	6.5	100 ●
		EM 5942 1 103	RHS-12P	Ø 11.0 mm	6.5	100 ○
	For use with static loads only.					

Britclips® Right Angle Threaded Rod Hangers		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 122  <ul style="list-style-type: none"> ■ angle bracket 90° ■ with threaded rod clip (rod height adjustable by sliding) ■ material: Britclips® Height Adj Threaded Rod Hanger made of spring steel (type CS70); Britclips® Right Angle Bracket made of steel ■ surface treatment: Delta-Tone 9000 (480 hours) 		EM 5962 0 600	RHA-TRH6	M6	6.5	100 ○
		EM 5962 0 800	RHA-TRH8	M8	6.5	100 ○
		EM 5962 1 000	RHA-TRH10	M10	6.5	100 ○
	For use with static loads only.					

Britclips® Single Run Mild Steel P Clip

Part number

Dimensions / Techn. details

Pack

Catalogue page J 50 124



- versatile support
- can be used on it's own or with other Britclips® fasteners
- material: mild steel
- zinc plated
- EPDM rubber lining, black

338 6 012	PCS12	12	6.5	100	●
338 6 014	PCS14	14	6.5	100	●
338 6 016	PCS16	16	6.5	100	●
338 6 018	PCS18	18	6.5	100	●
338 6 020	PCS20	20	6.5	100	●
338 6 025	PCS25	25	6.5	100	●
338 6 032	PCS32	32	6.5	100	●

For use with static loads only.

Britclips® Double Run Mild Steel P Clip

Part number

Dimensions / Techn. details

Pack

Catalogue page J 50 126



- versatile support
- for twin runs of cable / conduit
- material: mild steel
- zinc plated
- EPDM rubber lining, black

338 6 212	PCD12	12 x 2	6.5	100	●
338 6 214	PCD14	14 x 2	6.5	100	●
338 6 216	PCD16	16 x 2	6.5	100	●
338 6 218	PCD18	18 x 2	6.5	100	●
338 6 220	PCD20	20 x 2	6.5	100	●
338 6 225	PCD25	25 x 2	6.5	100	●
338 6 232	PCD32	32 x 2	6.5	100	●

For use with static loads only.

Britclips® Metal Framing Conduit Clip

Part number

Dimensions / Techn. details

Pack

Catalogue page J 50 128



- for engaging in metal Strut and supporting conduit
- conduit held in place by setting screw
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5780 0 020	MF50	16 - 20	Strut	100	○
EM 5780 0 025	MF75	20 - 25	Strut	100	●

For use with static loads only.

Britclips® Snap-in Conduit Clip

Part number

Dimensions / Techn. details

Pack


Catalogue page J 50 130





- universally applicable
- snaps securely in position
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5914 2 000	CC500	20	6.5	100	○
EM 5914 2 500	CC750	25	6.5	100	●
EM 5914 3 200	CC1000	32	6.5	100	○

For use with static loads only.

Britclips® Double Run Conduit Mount		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 50 132</p>  <ul style="list-style-type: none"> supports multi directional conduit conduit clip swivels 360° material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5914 2 020	CC50-50	20	20	100	○
	EM 5914 2 025	CC50-75	20	25	100	○
	EM 5914 2 032	CC50-100	20	32	100	○
	EM 5914 2 525	CC75-75	25	25	100	○
	EM 5914 2 532	CC75-100	25	32	100	○
	EM 5914 3 232	CC100-100	32	32	100	○
For use with static loads only.						

Britclips® Double Run Locking Conduit Mount		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 50 134</p>  <ul style="list-style-type: none"> conduit clip swivels 360° conduit clip with jaw locking (use pliers to lock) material: spring steel (type CS70) surface treatment: Delta-Tone 9000 (480 hours) 	EM 5912 2 424	HLCC50-50	19 - 22	19 - 22	100	○
	EM 5912 2 432	HLCC50-100	19 - 22	26 - 32	50	○
	EM 5912 2 440	HLCC50-125	19 - 22	33 - 40	50	○
	EM 5912 2 426	HLCC50-75	19 - 22	23 - 25	50	○
	EM 5912 2 525	HLCC57-57	20 - 25	20 - 25	50	○
	EM 5912 2 626	HLCC75-75	23 - 25	23 - 25	50	○
	EM 5912 2 632	HLCC75-100	23 - 25	26 - 32	50	○
	EM 5912 2 640	HLCC75-125	23 - 25	33 - 40	50	○
	EM 5912 3 232	HLCC100-100	26 - 32	26 - 32	50	○
	EM 5912 3 240	HLCC100-125	26 - 32	33 - 40	25	○
	EM 5912 4 017	HLCC125-25	12 - 16	33 - 40	50	○
	EM 5912 4 040	HLCC125-125	33 - 40	33 - 40	25	○
	For use with static loads only.					

Britclips® Pipe Clips		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page J 50 136</p>  <ul style="list-style-type: none"> to secure pipe vertically or horizontally to masonry, concrete or timber surfaces material: steel zinc plated 	EM 5916 1 200	P12	12	6.5	100	○
	EM 5916 1 500	P15	15	6.5	100	○
	EM 5916 2 000	P20	20	6.5	100	○
	EM 5916 2 500	P25	25	6.5	100	○
For use with static loads only.						

Britclips® Channel Clamps

Part number

Dimensions / Techn. details

Pack

Catalogue page J 50 138



- engages over channel flange to support cable
- can be tightened to secure
- pre-galvanized

EM 5555 1 822	GCCA22	16 - 22	50	●
EM 5555 1 828	GCCA28	22 - 28	50	●
EM 5555 1 834	GCCA34	28 - 34	50	●
EM 5555 1 846	GCCA46	40 - 46	50	○
EM 5555 1 852	GCCA52	46 - 52	50	○
EM 5555 1 864	GCCA64	58 - 64	25	○

For use with static loads only.

Britclips® Cable / Conduit Clamps

Part number

Dimensions / Techn. details

Pack

Catalogue page J 50 140



- engages horizontal flanges
- supports services running at right angles to the supporting flange
- pre-galvanized

EM 5555 1 222	GCCU22	16 - 22	≤12	50	○
EM 5555 1 228	GCCU28	22 - 28	≤12	50	○
EM 5555 1 234	GCCU34	28 - 34	≤12	50	○
EM 5555 1 240	GCCU40	34 - 40	≤12	50	○
EM 5555 1 246	GCCU46	40 - 46	≤12	50	○
EM 5555 1 252	GCCU52	46 - 52	≤12	50	○
EM 5555 1 258	GCCU58	52 - 58	≤12	50	○
EM 5555 1 264	GCCU64	58 - 64	≤12	25	○

For use with static loads only.

Britclips® Long Cable / Conduit Clamps

Part number

Dimensions / Techn. details

Pack


Catalogue page J 50 142





- engages onto vertical flanges
- tightening clamp secures both cables/conduit and clamp
- pre-galvanized

EM 5555 4 022	GCCS22	16 - 22	≤40	50	○
EM 5555 4 028	GCCS28	22 - 28	≤40	50	○
EM 5555 4 034	GCCS34	28 - 34	≤40	50	○
EM 5555 4 040	GCCS40	34 - 40	≤40	50	○
EM 5555 4 046	GCCS46	40 - 46	≤40	50	○
EM 5555 4 052	GCCS52	46 - 52	≤40	25	○
EM 5555 4 058	GCCS58	52 - 58	≤40	50	○
EM 5555 4 064	GCCS64	58 - 64	≤40	25	○
EM 5555 4 076	GCCS76	70 - 76	≤40	25	○

For use with static loads only.

Britclips® Snap-in Cable Clips		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page J 50 144</p>  <ul style="list-style-type: none"> allows easy removal and reinstallation of cable material: PA (polyamide), black 		EM 5919 0 010	D10	10	8	100	○
		EM 5919 0 015	D15	15	8	100	○
		EM 5919 0 020	D20	20	8	100	○
		For use with static loads only.					

Britclips® Straight Shank / Conduit Clips		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page J 50 146</p>  <ul style="list-style-type: none"> conduit clip swivels 360° with fixing hole (Ø 6.5 mm) horizontal to fix S-hook, bolt/nut, etc. material: Britclips® Snap-in Conduit Clip made of spring steel (type CS70); Britclips® Straight Shank Bracket made of steel surface treatment: Delta-Tone 9000 (480 hours) 		EM 5914 2 003	RHS-500	20	6.5	100	○
		EM 5914 2 503	RHS-750	25	6.5	50	○
		EM 5914 3 203	RHS-1000	32	6.5	50	○
		EM 5912 2 403	RHS-50L	19 - 22	6.5	50	○
		EM 5912 2 603	RHS-75L	23 - 25	6.5	50	○
		EM 5912 2 503	RHS-575L	20 - 25	6.5	50	○
		EM 5912 3 203	RHS-100L	26 - 32	6.5	25	○
		EM 5912 4 003	RHS-125L	33 - 40	6.5	25	○
	For use with static loads only.						

Britclips® Locking Conduit Clips Cable Tie		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page J 50 148</p>  <ul style="list-style-type: none"> conduit clip swivels 360° conduit clip with jaw locking (use pliers to lock) with saddle for cable tie attachment (up to width 7.6 mm) material: bracket made of spring steel (type CS70); tie-wrap clip of PA (polyamide), black surface treatment: Delta-Tone 9000 (480 hours) 		EM 5913 2 500	HLCT575	20 - 25	No tie	50	○
		EM 5913 2 514	HLCT57-5.5	20 - 25	With tie (L = 160 mm)	50	○
		EM 5913 2 525	HLCT57-10	20 - 25	With tie (L = 292 mm)	50	○
		EM 5913 3 225	HLCT10-10	26 - 32	With tie (L = 292 mm)	50	○
		For use with static loads only.					

Britclips® Cable Tie Saddle	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 50 150



- anchors cable ties
- material: PA (polyamide), black

EM 5932 0 000	HLKC	100
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For use with static loads only.

Britclips® Strap Hangers	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 50 152



- with provision for fixing of suspension band up to width 28 mm
- material: spring steel (type CS70)
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5720 0 001	SH	6.5	100
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For use with static loads only.

Britclips® Straight Shank Strap Hangers	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 50 154



- with provision for fixing of suspension band up to width 28 mm
- material: Britclips® Strap Hangers made of spring steel (type CS70); Britclips® Straight Shank Bracket made of steel
- surface treatment: Delta-Tone 9000 (480 hours)

EM 5973 0 100	RHS-SHR	90	6.5	100
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For use with static loads only.

Britclips® Right Angle Bracket Strap Hangers	Part number	Dimensions / Techn. details	Pack
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Catalogue page J 50 156





- angle bracket 90°
- with provision for fixing of suspension band up to width 28 mm
- material: Britclips® Strap Hangers made of spring steel (type CS70); Britclips® Right Angle Bracket made of steel
- surface treatment: Delta-Tone 9000 (480 hours)


EM 5973 0 003	RHA-SH	51	6.5	100
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For use with static loads only.


Britclips® Cable Tray Hanger		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 158	<ul style="list-style-type: none"> ■ supports threaded rod through perforated cable tray ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5942 0 699	CTM6	≤3	M6	100
		For use with static loads only.				

Britclips® Ceiling Bracket		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 162	<ul style="list-style-type: none"> ■ angle bracket 90° ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5902 0 007	HCB1		4	100
		For use with static loads only.				

Britclips® Heavy Duty Threaded Clamp		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 50 164	<ul style="list-style-type: none"> ■ for a solid fixing to steel construction without the need for welding or drilling ■ various fixing possibilities to clamp (horizontal and vertical) ■ material: malleable iron ■ bright zinc plated 	600 3 996	HLC	18	M6	35	50
		For use with static loads only.					


Britclips® Double Fix Tube Clips		Part number	Dimensions / Techn. details			Pack
Catalogue page J 50 166	<ul style="list-style-type: none"> ■ offers increased stability for a range of cable or tube fixings ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5938 0 015	TC82050		13-15	100
		EM 5938 0 021	TC82075		19-21	100
		EM 5938 0 027	TC82100		24-27	100
		For use with static loads only.				

Britclips® Light Duty Cable Tray Support Bracket		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 50 168	<ul style="list-style-type: none"> ■ versatile support ■ for a variety of applications ■ material: steel ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5795 0 068	CTB	6.5	100	○	
		For use with static loads only.					
Britclips® Double Cable Clip		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 50 170	<ul style="list-style-type: none"> ■ direct attachment to walls or ceilings ■ material: spring steel (type CS70) ■ surface treatment: Delta-Tone 9000 (480 hours) 	EM 5822 5 000	DCC	7 - 12	6	100	●
		For use with static loads only.					
Britclips® RSWB 16" - 24"		Part number	Dimensions / Techn. details			Pack	
Catalogue page J 50 175	<ul style="list-style-type: none"> ■ extendable bracket for mounting electrical boxes and conduit in stud walls ■ quick and easy installation ■ suitable for mounting multiple boxes and conduit between stud wall divides ■ for use with BIS RapidRail® Slide Nuts, BIS starQuick® Clamps, BIS starQuick® Universal Rail Adaptor and Hammerfix accessories ■ break apart design ■ material: steel ■ pre-galvanized 	5949 1 624	440 mm	116	13.8	50	●
							

Britclips® Heavy Duty Bracket Systems		Part number	Dimensions / Techn. details				Pack	
Catalogue page J 55 105 	■ material: mild steel	607 9 220	HH101/200	6 - 13	200 mm	10	10	○
		607 9 230	HH101/300	6 - 13	300 mm	10	10	○
		607 9 240	HH101/400	6 - 13	400 mm	10	10	○
		607 9 250	HH101/500	6 - 13	500 mm	10	10	○


For use with static loads only.

Britclips® Heavy Duty Bracket System HH1		Part number	Dimensions / Techn. details				Pack
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Catalogue page J 55 110 	■ material: mild steel	607 9 000	HH1	6 - 13	38	55	50	○
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For use with static loads only.

Britclips® Heavy Duty Bracket System HH103		Part number	Dimensions / Techn. details				Pack
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Catalogue page J 55 115 	■ material: mild steel	607 9 115	HH103/150	6 - 13	150 (mm) - beam width 125 mm	10	10	○
		607 9 120	HH103/200	6 - 13	200 (mm) - beam width 175 mm	10	10	○
		607 9 125	HH103/250	6 - 13	250 (mm) - beam width 225 mm	10	10	○
		607 9 130	HH103/300	6 - 13	300 (mm) - beam width 275 mm	10	10	○

For use with static loads only.

Britclips® Heavy Duty Toggle Fixings		Part number	Dimensions / Techn. details		Pack
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Catalogue page J 55 120 	■ material: mild steel	067 0 908	TF8	M8	100	○
		067 0 910	TF10	M10	100	○

For use with static loads only.

NEW

Britclips® RSWB

Rapid Sliding Wall Bracket, the new addition to the Britclips® range

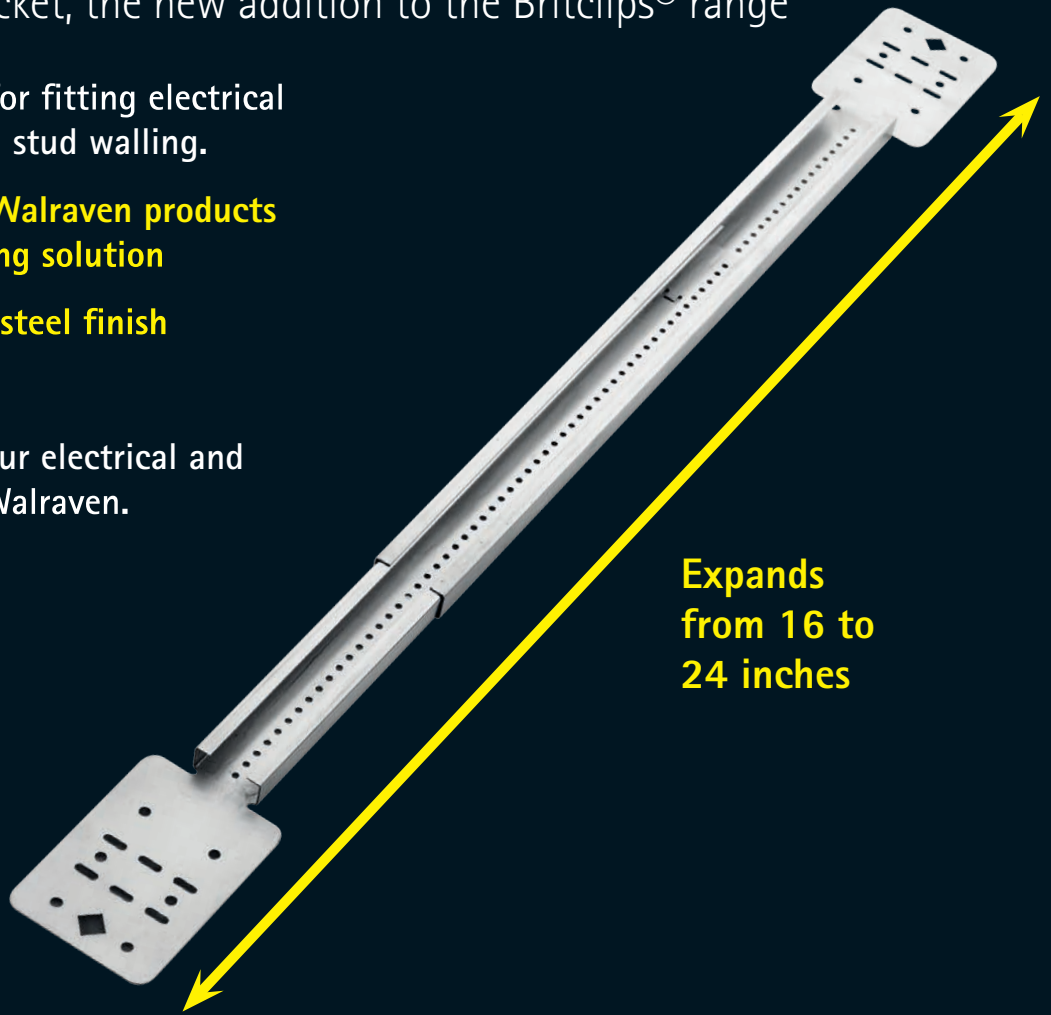
A cost effective solution for fitting electrical boxes and conduits within stud walling.

- **Compatible with other Walraven products to offer a complete fixing solution**
- **High quality galvanised steel finish**
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So now you can get all your electrical and mechanical fixings from Walraven.

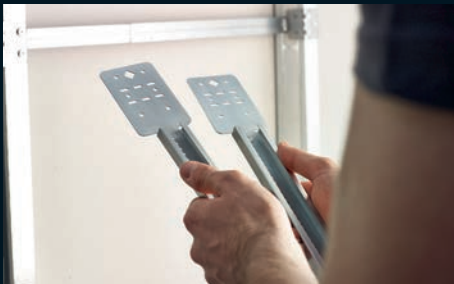
Part No. 594 91 624

**QUICK
& EASY
TO FIT**

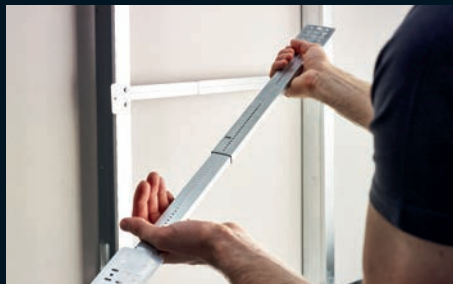


**Expands
from 16 to
24 inches**

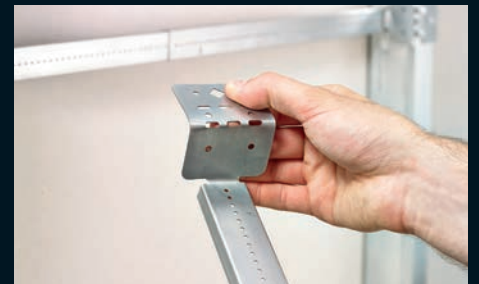
Install in 3 easy steps



Simply snap apart



Extended to fit between studs





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BIS STARLOCK I Cable Bind System		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page J 60 05</p>  <ul style="list-style-type: none"> ■ for batch fixing large quantities of cable ties ■ easy and quick to use <ul style="list-style-type: none"> - tightens strip and cuts redundant part ■ BIS STARLOCK I standard model, supplied as startset in blisterpack ■ material: <ul style="list-style-type: none"> - cablestrip made of PA6 (polyamide) - locking clips made of POM (polyoxymethylene) ■ cablestrip: <ul style="list-style-type: none"> - tensile strength 15 kg (safety factor 1:2) - UV-resistant (black) - temperature resistance up to approx. 70 °C - width 4.5 mm 	090 9 010	Startset consisting of: 1 x BIS STARLOCK I, 1 x 15 m cable strap and 200 locking clips, white	1	○
	090 9 011	Startset consisting of: 1 x BIS STARLOCK I, 1 x 15 m cable strap and 200 locking clips, black	1	○

BIS STARLOCK II Cable Bind System		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page J 60 10</p>  <ul style="list-style-type: none"> ■ for batch fixing large quantities of cable ties ■ easy and quick to use <ul style="list-style-type: none"> - tightens strip and cuts redundant part ■ BIS STARLOCK II with tightening lever, supplied as startset in case ■ material: <ul style="list-style-type: none"> - cablestrip made of PA6 (polyamide) - locking clips made of POM (polyoxymethylene) ■ cablestrip: <ul style="list-style-type: none"> - tensile strength 15 kg (safety factor 1:2) - UV-resistant (black) - temperature resistance up to approx. 70 °C - width 4.5 mm 	090 9 060	Startset consisting of: 1 x BIS STARLOCK II, 1 x 15 m cable strap and 100 locking clips, white	1	○
	090 9 061	Startset consisting of: 1 x BIS STARLOCK II, 1 x 15 m cable strap and 100 locking clips, black	1	○

BIS STARLOCK Consumables

Part number

Dimensions / Techn. details

Pack

Catalogue page J 60 15



- material:
 - cablestrip made of PA6 (polyamide)
 - locking clips made of POM (polyoxymethylene)
- cablestrip:
 - tensile strength 15 kg (safety factor 1:2)
 - UV-resistant (black)
 - temperature resistance up to approx. 70 °C
 - width 4.5 mm

090 9 120	Cable strap L = 15 m, white	2	○
090 9 121	Cable strap L = 15 m, black	2	●
090 9 200	Stick with 20 locking clips, white	10	○
090 9 201	Stick with 20 locking clips, black	10	●

BIS Cable Ties

Part number

Dimensions / Techn. details

Pack


Catalogue page J 60 35





- material: PA (polyamide)
- resistant to oil, grease, salt and thin acids
- temperature resistance from -35 °C to +85 °C


090 1 290	290 x 7.6 mm	Black	100	●
090 1 370	365 x 7.8 mm	Black	100	●


BIS Fixing Accessories




BIS Suspension Band (Curved) – Steel		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page K 05 20</p>  <ul style="list-style-type: none"> ■ flexible system with multiple applications ■ dispenser cassette allows easy handling and storage ■ material: steel ■ pre-galvanized 	083 5 012	10 m	12 x 0.8	10	●
	083 5 017	10 m	17 x 0.8	10	●
	083 5 026	10 m	26 x 1.0	10	●


BIS Wall Plates 670		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page K 15 05</p>  <ul style="list-style-type: none"> ■ slots at 90° to each other to simplify fixing ■ with resistance welded connection nut ■ material: steel ■ zinc plated 	670 3 006	M6	50	●
	670 3 008	M8	50	●
	670 3 009	M8/10	50	●
	670 3 010	M10	50	●
	670 3 016	M16	50	●


BIS Wall Plates 671 and 675		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page K 15 10</p>  <ul style="list-style-type: none"> ■ slots at 90° to each other to simplify fixing ■ Part No. 671 3 OXX: with resistance welded connection nut ■ Part No. 671 9 OXX: with CO2 welded connection nut ■ material: steel ■ zinc plated 	671 3 010	M10	40	●
	671 3 012	M12	40	○
	671 3 016	M16	50	○
	671 3 021	G1/2"	50	○
	671 9 012	M12	50	○
	671 9 016	M16	50	○
	671 9 021	G1/2"	50	○
	671 9 027	G3/4"	50	○
	671 9 033	G1"	50	○


BIS Wall Plates 672 (Male Thread)		Part number	Dimensions / Techn. details	Pack
<p>Catalogue page K 15 15</p>  <ul style="list-style-type: none"> ■ slots at 90° to each other to simplify fixing ■ with resistance welded male stud bolt ■ material: steel ■ zinc plated 	672 3 006	M6 x 25	50	○
	672 3 108	M8 x 10	50	○
	672 3 008	M8 x 25	50	○
	672 3 110	M10 x 12	50	○
	672 3 010	M10 x 35	50	●




BIS Duplo Fixing Plates		Part number	Dimensions / Techn. details		Pack
Catalogue page K 15 20  <ul style="list-style-type: none"> 2 hexagon nuts M8 are infinitely adjustable in center distance attach 2 pipes on a wall or ceiling with only one drill hole material: metal parts made of steel; plastic housing made of PP (polypropylene), white zinc plated 	674 3 001	M8	116.5 mm	50	○
	674 3 002	M8	146.4 mm	50	○
	674 3 003	M10	118.0 mm	50	○
	Max. allowed load: based on using largest value for k for suspension.				

BIS Beam Clamps Model C		Part number	Dimensions / Techn. details			Pack
Catalogue page K 20 05    <ul style="list-style-type: none"> 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 bolt with hexagon head according to DIN 933 strength class 8.8, screw point with cup ring according to EN ISO 4753 and lock nut material: beam clamp made of cast iron; bolt of hardened steel, nut of steel, zinc plated 	600 3 006	≤23	M6	-	50	○
	600 3 208	≤18	M8	VdS	50	●
	600 3 008	≤23	M8	VdS	50	○
	600 3 010	≤20	M10	VdS, FM	50	●
	600 3 310	≤28	M10	VdS, FM	25	○
	600 3 012	≤26	M12	VdS, FM	25	●
	600 3 016	≤28	M16	VdS, FM	25	○
	600 3 905	≤18	Ø 9 mm	VdS	50	●
	600 3 908	≤23	Ø 9 mm	VdS	50	○
	600 3 910	≤20	Ø 11 mm	VdS, FM	50	●
	600 3 912	≤26	Ø 13 mm	VdS, FM	25	●
	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 Beam Clamps Model O		Part number	Dimensions / Techn. details		Pack
Catalogue page K 20 15  <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling up to flange thickness 45 mm with hole Ø 14 mm for fixing of BIS IC-clamp, stud bolt or S-Hook with serration for increased security material: steel surface treatment: Dacromet see also: IC-clamp (for conduit or cable); square nut (for threaded rod) or protective cap (to avoid damaging of protected surfaces) 	607 7 020	≤20		25	○
	607 7 030	≤30		25	○
	607 7 045	≤45		25	○


BIS Beam Clamp Model O – Accessories		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 20 20</p>  <ul style="list-style-type: none"> Part No. 607 7 2XX: for fixing of clamps or cables to BIS Beam clamp model 'O' (Part No. 607 7 0XX) Part No. 607 7 10X: for threaded rod fixing to BIS Beam clamp Model 'O' Part No. 610 9 908: protects damaging of beam material: clamp and square nut made of steel material: protective cap made of PP (polypropylene), black Part No. 607 7 2XX: surface treatment: Dacromet Part No. 607 7 10X: surface protection: BIS UltraProtect® 1000 system 	607 7 220	BIS IC-Clamp	16.0 - 20.0	M5	50	○
	607 7 225	BIS IC-Clamp	20.4 - 25.0	M5	50	○
	607 7 231	BIS IC-Clamp	26.9 - 31.8	M5	50	○
	607 7 238	BIS IC-Clamp	33.7 - 38.0	M6	50	○
	607 7 244	BIS IC-Clamp	40.0 - 44.5	M6	50	○
	607 7 251	BIS IC-Clamp	47.0 - 51.0	M6	25	○
	607 7 263	BIS IC-Clamp	59.2 - 63.5	M6	25	○
	607 7 106	BIS Square Nut	-	M6	100	○
	607 7 108	BIS Square Nut	-	M8	100	○
	610 9 908	BIS Protection Cap	-	-	100	○


BIS Swivel Beam Clamp Model E		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 20 25</p>  <ul style="list-style-type: none"> multidirectional clamp for suspension of light components to pitched beams without welding or drilling up to flange thickness 24 mm articulation to 30° sideways, 45° forwards material: steel surface treatment: Dacromet 	607 6 000	≤24	M10	10	○	


BIS Swivel Beam Clamps Model P		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 20 30</p>    <ul style="list-style-type: none"> multidirectional clamp according to VdS-regulations an additional safety strap should be used when supporting pipes above DN65 articulation to 45° sideways, 90° forwards safety strap is obliged with VdS applications 1 and 4 material: steel zinc plated with VdS-approval - certificate number G 4020003 	607 8 008	≤17	M8	VdS, FM	10	○
	607 8 010	≤17	M10	VdS, FM	25	●


FM and VdS Approval to 25° articulation.


BIS Roofing Sheet Hangers VdS		Part number	Dimensions / Techn. details	Pack	
Catalogue page K 25 05   <small>© 4070033</small>	<ul style="list-style-type: none"> for mounting to profiled roofing sheet by means of pop rivets or threaded rod variable distance to roof hanger by using a threaded rod material: steel pre-galvanized with VdS-approval – certificate number G 4070033 	678 5 001	Ø 13.0 mm	VdS	50
		678 5 008	M8	VdS	50
		678 5 010	M10	VdS	50
	Maximum load ($F_{a,z}$) 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
Catalogue page K 25 10 	<ul style="list-style-type: none"> for trapezium shaped roofing sheets up to max. 1.5 mm thickness weight approximately 3.5 kg maximum jaw opening 90 mm with punches Ø 10.5 mm 	692 0 012	BIS Hole punching pliers	1


BIS Height Adjuster		Part number	Dimensions / Techn. details	Pack
Catalogue page K 25 25 	<ul style="list-style-type: none"> 30 mm continuously variable height adjustable for stud bolt M8 or M10 can also be used as rail suspension element material: steel 1.0332 zinc plated 	679 3 810	M8 - M10	50


BIS Pipe Reinforcement		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 35 05</p>  <ul style="list-style-type: none"> ■ self-gripping and continuous support for plastic pipes to prevent unsatisfactory deflections ■ allows for longer distance between supports (fixing distance with reinforcement is 1.5 times longer than the distance without reinforcement) ■ controls direction of pipe expansion. Maintains alignment of pipe, and prohibits "snaking" ■ reinforcement fits inside insulation ■ can be cut with hand tools ■ material: steel ■ pre-galvanized ■ to be used with e.g. BISMAT[®] 5000, BIS Bifix[®] 5000 and BIS Polymat[®] 	063 5 316	16	With click-effect	3 m	75	○
	063 5 320	20	With click-effect	3 m	75	○
	063 5 325	25	With click-effect	3 m	75	○
	063 5 332	32	With click-effect	3 m	75	○
	063 5 340	40	With click-effect	3 m	15	○
	063 5 350	50	With click-effect	3 m	15	○
	063 5 356	56	-	3 m	15	○
	063 5 363	63	With click-effect	3 m	15	○
	063 5 375	75	With click-effect	3 m	15	○
	063 5 390	90	With click-effect	3 m	15	○
	063 5 391	110	With click-effect	3 m	15	○
	063 5 392	125	-	3 m	15	○
	063 5 393	160	-	3 m	30	○



BIS Hanger Bolts (BUP1000)		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 40 04</p>  <ul style="list-style-type: none"> ■ with hexagon for fine setting ■ material: steel ■ surface protection: BIS UltraProtect[®] 1000 system 	6268 0 810	M8	100 mm	100	○	
	6268 0 820	M8	200 mm	50	○	
	6268 1 010	M10	100 mm	50	○	
	6268 1 020	M10	200 mm	50	○	



BIS Hanger Bolts		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 40 05</p>  <ul style="list-style-type: none"> ■ with hexagon for fine setting ■ material: steel ■ zinc plated 	626 3 606	M6	60 mm	100	○	
	626 3 608	M6	80 mm	100	○	
	626 3 609	M6	90 mm	100	○	
	626 3 612	M6	120 mm	100	○	
	626 3 615	M6	150 mm	100	○	
	626 3 805	M8	50 mm	100	●	
	626 3 806	M8	60 mm	100	●	
	626 3 808	M8	80 mm	100	●	
	626 3 810	M8	100 mm	100	○	
	626 3 812	M8	120 mm	100	●	
	626 3 815	M8	150 mm	50	○	
	626 3 818	M8	180 mm	50	○	


BIS Hanger Bolts	Part number	Dimensions / Techn. details		Pack
	626 3 820	M8	200 mm	50 ○
	628 3 006	M10	60 mm	50 ○
	628 3 008	M10	80 mm	50 ●
	628 3 010	M10	100 mm	50 ●
	628 3 011	M10	110 mm	50 ○
	628 3 012	M10	120 mm	50 ○
	628 3 014	M10	140 mm	50 ●
	628 3 018	M10	180 mm	50 ○
	628 3 020	M10	200 mm	50 ○
	626 3 008	-	-	250 ○


BIS Threaded Shoulder Wood Screws Model A	Part number	Dimensions / Techn. details		Pack
Catalogue page K 40 10  <ul style="list-style-type: none"> ■ material: steel ■ zinc plated 	635 3 850	M8	50 mm	100 ●
	635 3 860	M8	60 mm	100 ○
	635 3 880	M8	80 mm	100 ○


BIS Suspension Eyes	Part number	Dimensions / Techn. details		Pack
Catalogue page K 45 05  <ul style="list-style-type: none"> ■ closed design to maximize loading ■ material: steel ■ zinc plated 	680 3 008	M8	Ø 8.5	100 ●
	680 3 010	M10	Ø 10.5	100 ●
	680 3 012	M12	Ø 10.5	100 ●

BIS Eye Bolt Assemblies	Part number	Dimensions / Techn. details		Pack
Catalogue page K 45 17   <ul style="list-style-type: none"> ■ material: mild steel ■ zinc plated 	067 0 961			100 ○
	067 0 965			100 ○

BIS Hexagon Nuts (BUP1000)		Part number	Dimensions / Techn. details		Pack
Catalogue page K 45 34 	■ material: steel	6128 1 008	M8		100 ○
	■ surface protection: BIS UltraProtect® 1000 system	6128 1 010	M10		100 ●
		6128 1 012	M12		100 ●
		6128 1 016	M16		100 ●
		M10 and above tested for fire safety.			
					

BIS Hexagon Nuts		Part number	Dimensions / Techn. details		Pack
Catalogue page K 45 35 	■ material: steel	612 3 006	ISO 4032	M6	100 ○
	■ zinc plated	612 3 008	ISO 4032	M8	100 ○
		612 3 010	ISO 4032	M10	100 ●
		612 3 012	ISO 4032	M12	100 ○
		612 3 016	ISO 4032	M16	100 ○
		612 3 020	ISO 4032	M20	100 ○
		M10 and above tested for fire safety.			

BIS Socket Head Bolts (BUP1000)		Part number	Dimensions / Techn. details		Pack
Catalogue page K 45 54 	■ for fixing of fixing rail	6138 0 825	M8	25 mm	50 ○
	■ material: steel, strength class 8.8	6138 0 830	M8	30 mm	50 ○
		6138 0 860	M8	60 mm	50 ○
		6138 0 880	M8	80 mm	50 ○
		Required bolt or screw depends on rail hole pattern.			
■ surface protection: BIS UltraProtect® 1000 system					
■ according to ISO 4762					

BIS S-Hooks		Part number	Dimensions / Techn. details			Pack
Catalogue page K 50 15 	■ material: steel	694 1 040	Ø 11.0	4.0	5.0 mm	100 ○
	■ zinc plated					

BIS Spring Hook

Part number

Dimensions / Techn. details

Pack

Catalogue page K 50 27



- material: mild steel
- zinc plated

639 3 010

100



BIS Stud Bolts (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page K 55 04



- according to DIN 976-1
- material: steel
- surface protection:
BIS UltraProtect® 1000 system
- tested for fire safety

6318 1 010

M8

100 mm

50



6318 1 020

M8

200 mm

50



6328 1 010

M10

100 mm

50



6328 1 020

M10

200 mm

50



6318 1 610

M16

100 mm

50



6318 1 620

M16

200 mm

50



M10 and above tested for fire safety.



BIS Threaded Rods (BUP1000)

Part number

Dimensions / Techn. details

Pack

Catalogue page K 55 08



- according to DIN 976-1
- material: steel
- surface protection:
BIS UltraProtect® 1000 system
- tested for fire safety

6308 1 008

M8

1 m

50



6308 2 008

M8

2 m

25



6308 1 010

M10

1 m

25



6308 2 010

M10

2 m

20



6308 1 012

M12

1 m

20



6308 2 012

M12

2 m

15



6308 1 016

M16

1 m

20



6308 2 016

M16

2 m

10




M10 and above tested for fire safety.



BIS Stud Bolts		Part number	Dimensions / Techn. details		Pack
Catalogue page K 55 05  	<ul style="list-style-type: none"> <input type="checkbox"/> according to DIN 976-1 <input type="checkbox"/> material: steel <input type="checkbox"/> zinc plated <input type="checkbox"/> tested for fire safety 	631 3 802	M8	25 mm	100 ○
	631 3 803	M8	30 mm	100 ○	
631 3 804	M8	40 mm	100 ○		
631 3 805	M8	50 mm	100 ●		
631 3 806	M8	60 mm	100 ○		
631 3 807	M8	70 mm	100 ○		
631 3 808	M8	80 mm	100 ○		
631 3 809	M8	90 mm	100 ○		
631 3 810	M8	100 mm	100 ●		
631 3 812	M8	120 mm	50 ○		
631 3 815	M8	150 mm	50 ○		
631 3 818	M8	180 mm	50 ○		
631 3 820	M8	200 mm	50 ○		
632 3 002	M10	25 mm	50 ●		
632 3 003	M10	30 mm	100 ●		
632 3 004	M10	40 mm	50 ●		
632 3 005	M10	50 mm	50 ●		
632 3 006	M10	60 mm	50 ●		
632 3 007	M10	70 mm	50 ●		
632 3 008	M10	80 mm	50 ●		
632 3 009	M10	90 mm	50 ●		
632 3 010	M10	100 mm	50 ●		
632 3 012	M10	120 mm	50 ●		
632 3 015	M10	150 mm	50 ●		
632 3 016	M10	160 mm	50 ○		
632 3 018	M10	180 mm	50 ●		
632 3 020	M10	200 mm	50 ●		

M10 and above tested for fire safety.

BIS Threaded Rods		Part number	Dimensions / Techn. details		Pack
Catalogue page K 55 10 	<ul style="list-style-type: none"> <input type="checkbox"/> according to DIN 976-1 <input type="checkbox"/> material: steel <input type="checkbox"/> zinc plated <input type="checkbox"/> tested for fire safety 	630 3 006	M6	1 m	100 ○
	630 3 206	M6	2 m	50 ○	
630 3 306	M6	3 m	50 ○		
630 3 008	M8	1 m	50 ○		
630 3 208	M8	2 m	25 ○		
630 3 308	M8	3 m	25 ○		
630 3 010	M10	1 m	25 ●		
630 3 210	M10	2 m	20 ○		
630 3 310	M10	3 m	20 ●		
630 3 012	M12	1 m	20 ○		
630 3 212	M12	2 m	15 ○		
630 3 312	M12	3 m	15 ○		

BIS Threaded Rods

Part number	Dimensions / Techn. details	Pack
630 3 014	M14	1 m 10 ○
630 3 016	M16	1 m 10 ○
630 3 216	M16	2 m 10 ○
630 3 316	M16	3 m 1 ○
630 3 018	M18	1 m 10 ○
630 3 020	M20	1 m 5 ○
630 3 320	M20	3 m - ○
630 3 022	M22	1 m 5 ○
630 3 024	M24	1 m 5 ○

BIS Stud Connectors

Catalogue page K 55 30



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

Part number	Dimensions / Techn. details	Pack
645 3 625	M6	25 mm 100 ○
645 3 830	M8	30 mm 100 ○
645 3 930	M10	30 mm 50 ○
645 3 940	M10	40 mm 50 ○
645 3 240	M12	40 mm 50 ○
645 3 016	M16	48 mm 200 ●
645 3 020	M20	60 mm 75 ○

BIS Thread Adaptors (M/F)

Catalogue page K 55 35





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




Part number	Dimensions / Techn. details	Pack
647 3 008	M6	M8 100 ●
647 3 206	M8	M6 100 ●
647 3 210	M8	M10 100 ●
647 3 212	M8	M12 50 ○
647 3 221	M8	1/2" 50 ○
647 3 306	M10	M6 100 ○
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 ○
647 3 408	M12	M8 50 ○
647 3 410	M12	M10 50 ●
647 3 416	M12	M16 50 ●
647 3 510	M16	M10 50 ●
647 3 512	M16	M12 50 ●
647 3 521	1/2"	M16 50 ●

M10 and above tested for fire safety.

BIS DobyGrip Loop		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page K 65 05</p>  <ul style="list-style-type: none"> for a quick and easy fixing to roof and bearing beams, ridge beams, etc. reduces installation time compared to conventional methods wire suspension system for high loads all wires are supplied including BIS DobyGrip Lock material: 7x7 stranded galvanized steel wire rope strict quality inspection procedures and independent tests ensure reliability see also: BIS DobyGrip Info Page 		0948 1 101	1 m	1.0	10	●
		0948 1 102	2 m	1.0	10	●
		0948 1 103	3 m	1.0	10	●
		0948 1 105	5 m	1.0	10	●
		0948 1 201	1 m	2.0	10	●
		0948 1 202	2 m	2.0	10	●
		0948 1 203	3 m	2.0	10	●
		0948 1 205	5 m	2.0	10	●
		<p>Loads tested to a 5:1 safety factor. All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.</p>				

BIS DobyGrip Stud		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page K 65 10</p>  <ul style="list-style-type: none"> for a quick and easy fixing to ceilings by means of a wall plug/ drop-in-anchor reduces installation time compared to conventional methods wire suspension system for high loads all wires are supplied including BIS DobyGrip Lock material: 7x7 stranded galvanized steel wire rope strict quality inspection procedures and independent tests ensure reliability see also: BIS DobyGrip Info Page 		0948 2 261	M6	1 m	2.0	10	○
		0948 2 262	M6	2 m	2.0	10	●
		0948 2 263	M6	3 m	2.0	10	●
		0948 2 265	M6	5 m	2.0	10	○
		0948 2 281	M8	1 m	2.0	10	○
		0948 2 282	M8	2 m	2.0	10	○
		0948 2 283	M8	3 m	2.0	10	●
		0948 2 285	M8	5 m	2.0	10	○
		<p>Loads tested to a 5:1 safety factor. All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.</p>					

BIS DobyGrip Slide Nut		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page K 65 15</p>  <ul style="list-style-type: none"> for a quick and easy fixing to C-profile (type WM0, 1, 15, 2, 30 or 35) reduces installation time compared to conventional methods 		0948 4 201	M8	1 m	2.0	10	○
		0948 4 202	M8	2 m	2.0	10	○
	<p>Loads tested to a 5:1 safety factor. All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.</p>						

BIS DobyGrip Slide Nut	Part number	Dimensions / Techn. details	Pack
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- wire suspension system for high loads
- all wires are supplied including BIS DobyGrip Lock
- material: 7x7 stranded galvanized steel wire rope
- strict quality inspection procedures and independent tests ensure reliability
- see also: BIS DobyGrip Info Page

BIS DobyGrip Snap End Hook	Part number	Dimensions / Techn. details	Pack
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Catalogue page K 65 20



- for a quick and easy fixing to hooks and suspension eyes
- reduces installation time compared to conventional methods
- wire suspension system for high loads
- all wires are supplied including BIS DobyGrip Lock
- material: 7x7 stranded galvanized steel wire rope
- strict quality inspection procedures and independent tests ensure reliability
- see also: BIS DobyGrip Info Page

0948 6 201	1 m	2.0	10	○
0948 6 202	2 m	2.0	10	○
0948 6 203	3 m	2.0	10	●

Loads tested to a 5:1 safety factor.
All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.

BIS DobyGrip Wire Reel	Part number	Dimensions / Techn. details	Pack
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Catalogue page K 65 25




- for a quick and easy fixing to various suspension points
- wire lengths can be self-determined
- wire suspension system for high loads
- material: 7x7 stranded galvanized steel wire rope
- strict quality inspection procedures and independent tests ensure reliability
- see also: BIS DobyGrip Info Page

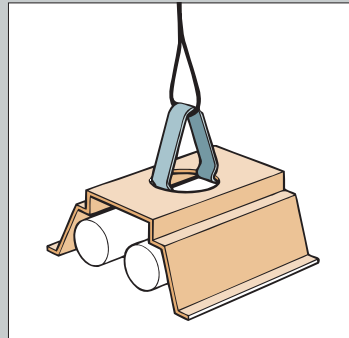
0948 9 115	150 m	1.0	1	○
0948 9 215	150 m	2.0	1	○

Loads tested to a 5:1 safety factor.
All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.

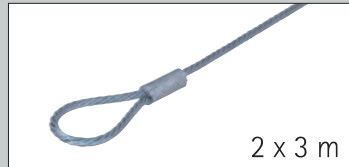
BIS DobyGrip Lock		Part number	Dimensions / Techn. details		Pack
Catalogue page K 65 30 	<ul style="list-style-type: none"> ■ reduces installation time compared to conventional methods ■ Part No. 0948 9 001: for use in combination with 1 mm diameter BIS DobyGrip wires ■ Part No. 0948 9 000: for universal use in combination with 1 mm as well as 2 mm diameter BIS DobyGrip wires ■ Part No. 0948 9 001: suitable for a maximum load of 10kg (1 mm wire diameter) with a 5:1 safety factor ■ Part No. 0948 9 000: suitable for a maximum load of 10kg (1 mm wire diameter) or 50kg (2 mm wire diameter) with a 5:1 safety factor ■ material: body of Zamak 5 zinc alloy; retaining spring of stainless steel (AISI 304); gripping wheel of sintered steel ■ strict quality inspection procedures and independent tests ensure reliability 	0948 9 001	20 mm	16.5	50 ○
		0948 9 000	30 mm	25.0	20 ●
		Loads tested to a 5:1 safety factor. All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.			

BIS DobyGrip Lighting Kit		Part number	Dimensions / Techn. details	Pack
Catalogue page K 65 32 	<ul style="list-style-type: none"> ■ lightweight and ideal easy to use solution for lighting to be hung in high areas ■ for a quick and easy fixing to roof and bearing beams, ridge beams, etc. ■ reduces installation time compared to conventional methods ■ material: 7x7 stranded galvanized steel wire rope ■ strict quality inspection procedures and independent tests ensure reliability ■ lighting kit consists of: <ul style="list-style-type: none"> - 2 x 3 meter lengths of BIS DobyGrip 1 mm wire - 2 x BIS DobyGrip lock 1 mm - 2 x Suspension Clips 	0948 9 300	Lighting Kit	2 ●
		Loads tested to a 5:1 safety factor. All ratings were determined by independent testing by Northumbria University and witnessed by Lloyds Register.		

BIS DobyGrip Lighting Kit



Each kit includes:



BIS DobyGrip Wire





BIS DobyGrip Lock





HSC1

Order number: 0948 9 300

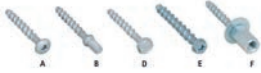
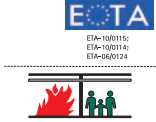
BIS Wire Ropes		Part number	Dimensions / Techn. details		Pack
Catalogue page K 65 35 	■ material: mild steel	639 0 303	30 m	3	1 ●
	■ pre-galvanized	639 0 305	50 m	3	1 ●
	■ packed per reel	639 0 310	100 m	3	1 ●
		639 0 410	100 m	4	1 ●


BIS Rope Grips and Eyelets		Part number	Dimensions / Techn. details		Pack
Catalogue page K 65 40 	■ material: mild steel	639 1 312	12.0	3.0	20 ●
	■ pre-galvanized	639 1 412	15.0	4.0	20 ●
		639 2 308	8.0 x 5.5	3.0	20 ●
		639 2 412	12.0 x 7.5	4.0	20 ●




BIS Hook and Eye Rope Tensioners		Part number	Dimensions / Techn. details		Pack
Catalogue page K 65 45 	■ material: mild steel	639 3 210	10	175 - 255	20 ●
	■ pre-galvanized	639 3 312	12	245 - 325	20 ●


BIS Anchor Ring		Part number	Dimensions / Techn. details		Pack	
Catalogue page K 65 50 	■ material: mild steel ■ pre-galvanized	639 3 000	50	50	5.0	10 ●

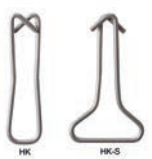

BIS Fastenings


BIS TSM Concrete Screws		Part number	Dimensions / Techn. details				Pack	
Catalogue page L 05 05  	<ul style="list-style-type: none"> ■ suitable for concrete (cracked and non-cracked), sand-lime bricks, clinker, brick, natural stone, etc. ■ for fixing of cladding units, insulation plates, fixing rails, etc. ■ stress-free fixing: small edge distance and centre-to-centre distance are possible ■ proof against static and quasi static loads ■ for both tensile as well as pressure zone ■ withstands fire for 120 minutes ■ no plug required: saves time and material ■ diameter of screw = diameter of drill ■ suitable for impact wrench ■ material: steel 1.5523 (according to DIN EN 1654-4) ■ surface treatment: zinc lamella coating ■ tested for fire safety 	625 3 006	A	Dome	40 mm	6	100	○
		625 3 106	B	Male Thread	55 mm	6	100	○
		625 3 304	D	Hex.	40 mm	6	100	○
		625 3 306	D	Hex.	60 mm	6	100	●
		625 3 509	D	Hex.	90 mm	10	50	○
		625 3 606	F	Female Thread	35 mm	6	50	●
		Max. allowed load (Fa,z) refers to cracked and non-cracked concrete (classification C20/25). The values apply without influence of spacing and edge distance. In case of fire and for detailed information please see ETA-10/0114, ETA-10/0115 and ETA-06/0124.						


BIS TSM Aerated Concrete Screws		Part number	Dimensions / Techn. details			Pack
Catalogue page L 05 10 	<ul style="list-style-type: none"> ■ for fixing in aerated concrete (as from class PP2) ■ for fixing of cladding units, insulation plates, fixing rails, etc. ■ for ceiling plates (class ≥3.3) ■ quick and easy (as screws in a wooden substrate) ■ pre-drilling not necessary, however pre-drilling of hole Ø 4 mm increases loadability ■ no plug required: saves time and material ■ material: steel ■ zinc plated, yellow passivated 	627 3 009	Dome	90 mm	100	○
		627 3 111	Hex.	110 mm	100	○
		627 3 116	Hex.	160 mm	100	○
		Max. allowed load (Fa,z) with pre-drilled hole in aerated concrete PP4. Pull-out force in other classes on request.				


BIS Drop-in Anchors and Setting Tools		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page L 05 15</p>   	<ul style="list-style-type: none"> ■ suitable for concrete (cracked and non-cracked) ■ technical details and approval certificates on request ■ material: steel ■ zinc plated ■ tested for fire safety 	610 3 006	Anchor	M6	25 mm	100	○
		610 3 008	Anchor	M8	30 mm	100	○
		610 3 010	Anchor	M10	40 mm	100	○
		610 3 012	Anchor	M12	50 mm	50	○
		610 3 016	Anchor	M16	65 mm	25	○
		691 8 008	Setting tool	M8	-	25	○
		691 8 010	Setting tool	M10	-	25	●
			<p>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.</p>				

BIS Brass Wall Plugs		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page L 05 20</p> 	<ul style="list-style-type: none"> ■ for fixing to concrete, brick, natural stone, sand-lime brick, solid wood, etc. ■ star plug for metric screws ■ reduced built-in depth ■ special profile prevents rotating in drill hole ■ material: brass 	610 7 006	M6	22.0 mm	400	○
		610 7 008	M8	28.0 mm	150	○
		610 7 010	M10	32.0 mm	100	○
		610 7 012	M12	38.0 mm	50	○
			<p>Max. allowed load (Fa,z) in concrete $\geq 25\text{N/mm}^2$. Other materials on demand.</p>			

BIS HK / HK-S		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page L 05 60</p>  	<ul style="list-style-type: none"> ■ for fixing of steel wire, suspension band or chain in concrete and solid stone ■ for suspension of static loads such as air ducts, lowered ceilings, etc. to concrete ■ also suitable for outside use ■ drill 8 mm hole and hammer in HK wire anchor ■ HK: for cables / BIS DobyGrip ■ HK-S: for suspension band up to width 25 mm ■ material: stainless steel 1.4401 (AISI 316) ■ better fire resistance than plastic plugs ■ tested by CSTB <ul style="list-style-type: none"> - test report EPOD/06-05 (HK) - test report ED/05-010 (HK-S) 	6107 3 134	HK, without cap		200	●
		6107 3 224	HK, with cap		100	○
		6107 3 524	HK-S, with setting tool		100	○
			<p>Max. allowed load (Fa) in concrete (350 kg/m³), drill hole \varnothing 8 mm. Safety margin 1:4.</p>			

BIS GOLD		Part number	Dimensions / Techn. details			Pack
Catalogue page L 10 08 	<ul style="list-style-type: none"> ■ hammer-in plug ■ for medium applications ■ for chipboard screw (Ø 3.5 - 5.0 mm, min. length 30 mm) ■ easy and quick to use <ul style="list-style-type: none"> - no drill - plug anchors itself when tightening the screw - does not rotate on screwing - removable with very low damage to the wall ■ with serrated point for easier hammering-in ■ with flat head ■ with screw guide and female wood thread ■ material: steel ■ better fire resistance than plastic plugs ■ surface treatment: zinc plated, colored 	611 2 231	Incl. screws (TF)	4.0	30	25 ●
		611 2 331	Incl. screws (TF)	4.0	50	25 ●
		611 2 251	Incl. screws (TF)	4.0	30	50 ●
		611 2 263	Incl. screws (TF)	4.0	30	200 ●
		611 2 051	Excl. screws	-	-	50 ○
		611 2 063	Excl. screws	-	-	200 ●
		Max. allowed load in plasterboard (safety margin 1:2).				

BIS XL		Part number	Dimensions / Techn. details			Pack
Catalogue page L 10 12 	<ul style="list-style-type: none"> ■ hammer-in plug ■ for heavy applications <ul style="list-style-type: none"> - applications: pipe fixings, radiators, heaters, airco-units, etc. ■ for chipboard screw (Ø 4.0 - 5.0 mm, min. length 45 mm) ■ easy and quick to use <ul style="list-style-type: none"> - no drill - plug anchors itself when tightening the screw - does not rotate on screwing ■ material: steel ■ better fire resistance than plastic plugs ■ zinc plated 	611 4 121	Incl. screws (TF)	4.0	50	12 ●
		611 4 143	Incl. screws (TF)	4.0	50	100 ○
		611 4 053	Without Screws	-	-	150 ○
		Max. allowed load in plasterboard (safety margin 1:2).				

BIS CP		Part number	Dimensions / Techn. details			Pack	
Catalogue page L 10 24 	<ul style="list-style-type: none"> hammer-in plug for medium applications into plaster block or aerated concrete block for chipboard screw (Ø 4.0 - 5.0 mm, min. length 45 mm) easy and quick to use <ul style="list-style-type: none"> plug anchors itself when tightening the screw does not rotate on screwing pre-drill hole Ø 8 mm to avoid breaking of material during screwing material: steel better fire resistance than plastic plugs surface treatment: zinc plated, colored 	611 7 141	Incl. screws (TF)	4.0	50	12	○
		611 7 153	Incl. screws (TF)	4.0	50	100	○
		611 7 063	Without Screws	-	-	150	○
		Max. allowed load in plaster block (safety margin 1:2).					

BIS Star Plugs		Part number	Dimensions / Techn. details			Pack												
Catalogue page L 10 80   <table border="1"> <thead> <tr> <th></th> <th>90 mm</th> <th>120 mm</th> </tr> </thead> <tbody> <tr> <td>610 3 838</td> <td>350</td> <td>350</td> </tr> <tr> <td>610 3 860</td> <td>650</td> <td>500</td> </tr> <tr> <td>610 3 960</td> <td>800</td> <td>650</td> </tr> </tbody> </table>		90 mm	120 mm	610 3 838	350	350	610 3 860	650	500	610 3 960	800	650	<ul style="list-style-type: none"> for a fire safe fixing of pipes metal plug for wood- and chipboardscrews good grip because of external design (high pull-out resistance) insertion of hanger bolts is facilitated by the design of the internal shape (easy screw in) does not melt or burn with high temperature (important with gas pipes) dimension 6x32 mm and 8x38 mm can be hammered into low resistance aerated concrete without pre-drilling material: steel zinc plated, yellow passivated Part No. 610 3 860: zinc plated, blue passivated tested for fire safety tested according to DIN EN 1363-1: 1999-10 	610 3 632	32 mm	6.0	100	○
		90 mm	120 mm															
	610 3 838	350	350															
	610 3 860	650	500															
	610 3 960	800	650															
	610 3 838	38 mm	8.0	100	○													
	610 3 860	60 mm	8.0	100	○													
	610 3 960	60 mm	10.0	100	○													
	Max. allowed load (Fa,x) in concrete (safety margin 1:3). Exact drill hole diameter depends on the strength and the hardness of the building material.																	

BIS Toggle Plugs (Stud-end)

Catalogue page L 10 84



- U-profile with rotating shaft with stud bolt
- for fixing in hollow walls and hollow ceilings or profiled roofing sheets
- Part No. 067 0 604: for fixing of sprinkler pipes to roofing sheets (max. DN 50 - 2") according to VdS directives
- material: metal parts made of steel; protective washer made of rubber (Part No. 067 0 604)
- zinc plated
- with VdS-approval - certificate number G 4890027

Part number	Dimensions / Techn. details				Pack
067 0 602	Stud-end	M6	100 mm	-	25
067 0 603	Stud-end	M8	100 mm	-	25
067 0 604	Stud-end	M10	100 mm	VdS	25

The loading values of the plug depend on the surface (commonly trapezium sheet, loading capacity per m² determining).

BIS Toggle Bolt

Catalogue page L 10 88



- for fixing in hollow walls
- material: metal parts made of steel; spacer collar of EPDM rubber; washer of PP (polypropylene)
- pre-galvanized

Part number	Dimensions / Techn. details			Pack
067 0 600	M10	180 mm		20

The max. allowed load (Fa,z) depends on the application, for a detailed load calculation please contact Walraven technical support.

BIS Hammer-in Shoulder Studs


Catalogue page L 15 05





- hammer-in instead of screw-in
- impact head to prevent head damage
- plug with shoulder
- material: hammer-in stud made of steel; plug made of PA (polyamide), grey
- zinc plated, passivated

Part number	Dimensions / Techn. details			Pack
637 3 850	M8	50 mm		100

BIS Stainless Steel Pipe Support Fixings

BIS Bifix® 1301 Stainless Steel		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page M 05 05</p>  <ul style="list-style-type: none"> two-screw clamp with quick locking system material: stainless steel 1.4404 (AISI 316L) noise insulating lining, EPDM rubber, black age resistant lining sound insulating lining according DIN 4109 	312 7 018	15 - 19	3/8	M10	50	●
	312 7 023	20 - 23	1/2	M10	50	●
	312 7 029	25 - 28	3/4	M10	50	●
	312 7 035	31 - 35	1	M10	50	●
	312 7 043	40 - 43	1 1/4	M10	50	●
	312 7 049	47 - 51	1 1/2	M10	50	●
	312 7 056	52 - 56	-	M10	50	●
	312 7 063	57 - 64	2	M10	50	●
	312 7 067	64 - 67	-	M10	25	○
	312 7 076	70 - 76	2 1/2	M10	25	○
	312 7 085	79 - 85	-	M10	25	○
	312 7 091	86 - 91	3	M10	25	○
	312 7 106	100 - 106	-	M10	25	○
	312 7 116	108 - 116	4	M10	25	●
	312 7 132	124 - 132	-	M10	25	○
	312 7 141	133 - 141	5	M10	25	○
	312 7 168	159 - 168	6	M10	15	○
312 7 210	200 - 210	-	M10	15	○	
312 7 219	210 - 219	8	M10	10	○	

BIS Bifix® 300 Stainless Steel		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page M 10 05</p>  <ul style="list-style-type: none"> two-screw clamp with quick locking system material: stainless steel 1.4404 (AISI 316L) 	301 7 017	15 - 19	3/8	M8	-	50	○
	301 7 022	20 - 22	1/2	M8	-	50	○
	301 7 030	25 - 28	3/4	M8	-	50	○
	301 7 034	31 - 35	1	M8	-	50	○
	301 7 042	40 - 43	1 1/4	M8	-	50	○
	301 7 051	47 - 51	1 1/2	M8	-	50	○
	301 7 060	54 - 60	-	M8	-	50	○
	302 7 068	62 - 68	-	M10	RAL ¹	50	○
	302 7 076	72 - 76	-	M10	RAL ¹	25	○
	302 7 085	79 - 85	-	M10	RAL ¹	25	○
	302 7 089	85 - 89	3	M10	RAL ¹	25	○
	302 7 105	100 - 105	-	M10	RAL ¹	25	○
	302 7 111	106 - 111	-	M10	RAL ¹	25	○
	302 7 118	110 - 118	4	M10	RAL ¹	25	○
	302 7 127	122 - 127	-	M10	RAL ¹	25	○
	302 7 134	129 - 134	-	M10	RAL ¹	25	○
	302 7 144	139 - 144	5	M10	RAL ¹	25	○
	302 7 155	150 - 155	-	M10	RAL ¹	25	○

BIS Bifix® 300 Stainless Steel

Part number	Dimensions / Techn. details				Pack
302 7 162	157 - 162	-	M10	RAL ¹	25
302 7 169	164 - 169	6	M10	RAL ¹	25
302 7 200	193 - 200	-	M10	RAL ¹	15

RAL1 = tested, certified and monitored by a third party according to RAL-GZ 655/B. For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf.

BIS RapidRail® Stainless Steel Fixing Rail

Part number	Dimensions / Techn. details			Pack
650 7 015	2 m	WM15 - 30x20	-	20

Catalogue page M 20 05



- C-profile
- for a quick and easy fixing
- with continuous perforation (on request without perforation)
- distance between rail end and first hole is always equal
- a continuous graduated centimetre scale on one side
- material: stainless steel 1.4404 (AISI 316L)

For detailed technical information about our RAL marked products, please see the RAL datasheet in our web catalogue: www.walraven.com/library/repository/rnd/documents/RAL-Certified-Products-data-sheet-EN.pdf. For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidRail®'.


BIS RapidRail® Stainless Steel Slide Nuts


Part number	Dimensions / Techn. details		Pack
651 7 306	M6	WM1, 15, 2	50
651 7 308	M8	WM1, 15, 2	50
651 7 310	M10	WM1, 15, 2	50


Catalogue page M 31 05





- slide nut with washer and BIS RapidRail® spring
- ready-to-use pre-assembled for a quick fixing, and retains assembly in place before final tightening
- material: metal parts made of stainless steel 1.4401 (AISI 316); spring(s) made of POM (polyoxymethylene), blue

BIS RapidRail® Stainless Steel Hammerfix		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page M 31 25</p>  <ul style="list-style-type: none"> slide nut with stud bolt, washer and BIS RapidRail® spring ready-to-use pre-assembled for a quick fixing, and retains assembly in place before final tightening material: metal parts made of stainless steel 1.4401 (AISI 316); spring(s) made of POM (polyoxymethylene), blue 	652 7 062	M6	25 mm	WM1, 15, 2	25	○
	652 7 084	M8	40 mm	WM1, 15, 2	25	○
	652 7 088	M8	80 mm	WM1, 15, 2	25	○
	652 7 094	M10	40 mm	WM1, 15, 2	25	○
	652 7 098	M10	80 mm	WM1, 15, 2	25	○

BIS Stainless Steel Rail Connectors		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page M 34 05</p>  <ul style="list-style-type: none"> to make rail fabrications material: stainless steel 1.4401 (AISI 316) 	658 7 090	WM1, 15, 2	90°	50	○	
	658 7 135	WM1, 15, 2	135°	50	○	
	658 7 180	WM1, 15, 2	-	50	○	

BIS RapidRail® Stainless Steel Beam Clamp		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page M 37 05</p>  <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling always use 2 beam clamps per fixing material: stainless steel 1.4401 (AISI 316) 	658 7 011	< 16	WM1, 15, 2	10	50	○

BIS RapidStrut® Stainless Steel Rail		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page M 45 05</p>  <ul style="list-style-type: none"> universal rail system distance between rail end and first hole is always equal a continuous graduated centimetre scale on one side with inward formed flanges with serrated profile for extra grip material: stainless steel 1.4404 (AISI 316L) tested for fire safety 	650 7 327	3 m	41x21x2.50	30	○	
	650 7 627	6 m	41x21x2.50	60	○	
	650 7 347	3 m	41x41x2.50	30	○	
	650 7 647	6 m	41x41x2.50	60	○	
	<p>Strut 41x41x2.5 and above tested for fire safety. For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.</p>					

BIS RapidStrut® Stainless Steel Cantilever Arms

Part number

Dimensions / Techn. details

Pack

Catalogue page M 50 05



- wall plate welded on Strut Profile
- slots at 90° to each other to simplify fixing
- CO2 welded
- with inward formed flanges with serrated profile for extra grip
- material: stainless steel 1.4401 (AISI 316)
- tested for fire safety

Part number	Dimensions	Techn. details	Pack
660 7 861	150 mm	Strut 41x41	10
660 7 862	300 mm	Strut 41x41	10
660 7 863	450 mm	Strut 41x41	10
660 7 864	600 mm	Strut 41x41	8
660 7 865	750 mm	Strut 41x41	8

For more information about the max. allowed load (Fa,z) please refer to the loading tables or our online datasheet 'Technical Details BIS RapidStrut®'.

BIS Strut Stainless Steel Slide Nuts

Part number

Dimensions / Techn. details

Pack

Catalogue page M 55 04



- material: stainless steel 1.4401 (AISI 316); spring made of spring steel DIN17223 (class A)
- tested for fire safety

Part number	Dimensions	Techn. details	Pack
651 7 706	M6	Strut	25
651 7 708	M8	Strut	25
651 7 710	M10	Strut	25
651 7 712	M12	Strut	25
651 8 406	M6	Strut 41x21	25
651 8 408	M8	Strut 41x21	25
651 8 410	M10	Strut 41x21	25
651 8 412	M12	Strut 41x21	25
651 8 506	M6	Strut 41x41	25
651 8 508	M8	Strut 41x41	25
651 8 510	M10	Strut 41x41	25
651 8 512	M12	Strut 41x41	25

M10 and above tested for fire safety.

BIS Strut Stainless Steel Tee-Bolt

Part number

Dimensions / Techn. details

Pack


Catalogue page M 55 12





- slide nut with stud bolt and washer
- material: stainless steel
- tested for fire safety


Part number	Dimensions	Techn. details	Pack
652 7 734	M8	40 Strut	25
652 7 744	M10	50 Strut	25

M10 and above tested for fire safety.

BIS Stainless Steel Beam Clamps Model O V2A		Part number	Dimensions / Techn. details	Pack
Catalogue page M 62 25  <ul style="list-style-type: none"> for a solid fixing to steel construction without the need for welding or drilling up to flange thickness 45 mm with hole Ø 14 mm for fixing of BIS IC-clamp, stud bolt or S-Hook with serration for increased security material: stainless steel see also: IC-clamp (for conduit or cable) 	607 7 720	≤20	25	○
	607 7 730	≤30	25	○
	607 7 745	≤45	25	○

BIS SSt Beam Clamps Model O – Accessories		Part number	Dimensions / Techn. details	Pack	
Catalogue page M 62 30  <ul style="list-style-type: none"> for fixing of pipes or cables to Beam Clamps Model 'O' material: stainless steel 	6077 7 225	20.4 - 25.0	BIS IC-Clamp	50	○
	6077 7 231	26.9 - 31.8	BIS IC-Clamp	50	○
	6077 7 244	40.0 - 44.5	BIS IC-Clamp	50	○
	6077 7 251	47.0 - 51.0	BIS IC-Clamp	25	○

BIS Stainless Steel Wall Plates 670 and 671		Part number	Dimensions / Techn. details	Pack	
Catalogue page M 65 05  <ul style="list-style-type: none"> slots at 90° to each other to simplify fixing with resistance welded connection nut Part No. 671 7 021: with CO2 welded threaded boss Part No. 670 7 0XX: material: stainless steel 1.4301 (AISI 304) Part No. 671 7 0XX: with CO2 stainless steel 1.4404 (AISI 316L) 	670 7 006	M6	80 mm	50	○
	670 7 008	M8	80 mm	50	●
	670 7 010	M10	80 mm	50	●
	671 7 010	M10	145 mm	40	○
	671 7 012	M12	145 mm	40	○
	671 7 016	M16	145 mm	50	○
	671 7 021	G½"	145 mm	50	○

BIS Stainless Steel Wall Plates 672		Part number	Dimensions / Techn. details	Pack
Catalogue page M 65 10  <ul style="list-style-type: none"> slots at 90° to each other to simplify fixing with resistance welded male stud bolt material: stainless steel 1.4301 (AISI 304) 	672 7 008	M8 x 25	50	○

BIS Stainless Steel Hanger Bolts

Part number

Dimensions / Techn. details

Pack

Catalogue page M 75 05

- material: stainless steel 1.4301 (AISI 304)



Part number	Dimensions / Techn. details	Pack
626 7 805	M8 50 mm	100 ○
626 7 810	M8 100 mm	100 ○
628 7 006	M10 60 mm	100 ○
628 7 012	M10 120 mm	50 ○

BIS Stainless Steel Hexagon Nuts

Part number

Dimensions / Techn. details

Pack

Catalogue page M 80 10

- material: stainless steel 1.4401 (AISI 316)
- tested for fire safety



Part number	Dimensions / Techn. details	Pack
612 7 008	ISO 4032 M8	50 ○
612 7 010	ISO 4032 M10	100 ○
612 7 012	ISO 4032 M12	100 ○
612 7 016	ISO 4032 M16	100 ○

M10 and above tested for fire safety.



BIS Stainless Steel Threaded Rods

Part number

Dimensions / Techn. details

Pack

Catalogue page M 90 05


- according to DIN 976-1
- material: stainless steel
- tested for fire safety




Part number	Dimensions / Techn. details	Pack
630 7 006	M6 1 m	100 ○
630 7 008	M8 1 m	50 ○
630 7 010	M10 1 m	25 ○
630 7 012	M12 1 m	20 ○
630 7 016	M16 1 m	10 ○
630 7 020	M20 1 m	5 ○
630 8 006	M6 1 m	100 ○
630 8 008	M8 1 m	50 ○
630 8 010	M10 1 m	25 ○


M10 and above tested for fire safety.



BIS Stainless Steel Stud Connectors		Part number	Dimensions / Techn. details		Pack
Catalogue page M 90 10 	<ul style="list-style-type: none"> ■ to connect 2 male threaded components ■ material: stainless steel 1.4301 (AISI 304) 	645 7 625	M6	25 mm	100 ○
		645 7 830	M8	30 mm	100 ○
		645 7 930	M10	30 mm	50 ○
		645 7 240	M12	40 mm	50 ○

BIS Stainless Steel Thread Adaptors		Part number	Dimensions / Techn. details		Pack
Catalogue page M 90 15 	<ul style="list-style-type: none"> ■ to enlarge or reduce the thread size in the connection of clamps, etc. ■ material: stainless steel 1.4401 (AISI 316) ■ tested for fire safety 	647 7 210	M8	M10	50 ○
		647 7 308	M10	M8	50 ○



IH100 Stainless Steel Split Band Clips GR316		Part number	Dimensions / Techn. details		Pack	
Catalogue page M 100 05 	<ul style="list-style-type: none"> ■ standard finish: - stainless steel 	B410 7 021	21	1/2	15	1 ○
		B410 7 027	27	3/4	20	1 ○
		B410 7 034	34	1	25	1 ○
		B410 7 042	42	1 1/4	32	1 ○
		B410 7 048	48	1 1/2	40	1 ○
		B410 7 060	60	2	50	1 ○
		B410 7 076	76	2 1/2	65	1 ○
		B410 7 089	89	3	80	1 ●
		B410 7 114	114	4	100	1 ○
		B410 7 140	140	5	125	1 ○
		B410 7 168	168	6	150	1 ●
		B410 7 219	219	8	200	1 ○
		B410 7 273	273	10	250	1 ○

IH104 Stainless Steel Saddle Clamps

Part number

Dimensions / Techn. details

Pack

Catalogue page M 100 15

- standard finish:
- stainless steel



B310 7 021	21	1/2	15	1	○
B310 7 027	27	3/4	20	1	○
B310 7 034	34	1	25	1	○
B310 7 042	42	1 1/4	32	1	○
B310 7 048	48	1 1/2	40	1	○
B310 7 060	60	2	50	1	○
B310 7 076	76	2 1/2	65	1	○
B310 7 089	89	3	80	1	○
B310 7 114	114	4	100	1	○
B310 7 140	140	5	125	1	○
B310 7 168	168	6	150	1	○

IH105 Stainless Steel Standard U Bolts

Part number

Dimensions / Techn. details

Pack


Catalogue page M 100 20


- standard finish:
- stainless steel




B710 7 028	27	3/4	20	M6	1	○
B710 7 035	34	1	25	M6	1	○
B710 7 042	43	1 1/4	32	M10	1	○
B710 7 049	49	1 1/2	40	M10	1	○
B710 7 061	61	2	50	M10	1	○
B710 7 076	76	2 1/2	65	M12	1	○
B710 7 089	89	3	80	M12	1	○
B710 7 115	115	4	100	M12	1	○
B710 7 140	140	5	125	M12	1	○
B710 7 169	169	6	150	M12	1	○

BIS Pipe Connectors + Identification


BIS Mengerig® Rapid		Part number	Dimensions / Techn. details			Pack	
<p>Catalogue page N 05 20</p>  <ul style="list-style-type: none"> ■ single screw connector ■ defined locking torque without using a special tool ■ tested for fire safety applications ■ axial tensile strength up to 0.5 bar DN 40 - DN 200 ■ easy and fast to install due to visual torque control ■ material: <ul style="list-style-type: none"> - collar: chrome steel 1.4510/11 (AISI 430 Ti) - locking unit: steel 1.4301 / 1.4510/11 (AISI 430 Ti) - bolts / nuts: steel, plated - sealing ring: EPDM, black 	745 4 040	53	40	50	○		
	745 4 050	70	50	100	○		
	745 4 070	90	70	100	○		
	745 4 080	95	80	100	○		
	745 4 100	125	100	100	○		
	745 4 125	147	125	70	○		
	745 4 150	172	150	50	○		
	745 4 200	227	200	15	○		
	Please note! BIS Mengerig® Rapid is alternative for BIS Mengerig® CV.						

BIS Mengerig® Lubricant		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page N 20 10</p>  <ul style="list-style-type: none"> ■ for BIS Mengerig® Fix and similar systems ■ does not contain environmental polluting materials 	747 0 101	1000 ml	Box / Tub	18	○

BIS Under Floor / Radiator Brackets

BIS Manifold Fixing		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page O 05 05</p>  <ul style="list-style-type: none"> ■ material: steel ■ zinc plated ■ sound proofing lining made of natural rubber, black ■ sound insulating lining according DIN 4109 	394 3 227	Double	26.9	3/4	25 ●	
Other types on request.						

BIS Split Band Clips, Gang Hangers, BIS Twinlok®

IH100 / IH140 Split Band Clips		Part number	Dimensions / Techn. details				Pack
Catalogue page P 04 05	 <ul style="list-style-type: none"> ■ Type IH100: zinc plated, for steel pipe ■ Type IH140: nylon coated, for copper pipe ■ also available in: <ul style="list-style-type: none"> - self colour - hot dip galvanized - stainless steel 	B410 3 021	21	1/2	15	IH100	25 ●
		B410 3 027	27	3/4	20	IH100	50 ●
		B410 3 034	34	1	25	IH100	50 ●
		B410 3 042	42	1 1/4	32	IH100	25 ●
		B410 3 048	48	1 1/2	40	IH100	25 ●
		B410 3 060	60	2	50	IH100	25 ●
		B410 3 076	76	2 1/2	65	IH100	15 ●
		B410 3 089	89	3	80	IH100	15 ●
		B410 3 114	114	4	100	IH100	15 ●
		B410 3 140	140	5	125	IH100	15 ●
		B410 3 168	168	6	150	IH100	10 ●
		B410 3 194	194	7	175	IH100	1 ●
		B410 3 219	219	8	200	IH100	1 ●
		B410 3 245	245	9	225	IH100	1 ●
		B410 3 273	273	10	250	IH100	1 ●
		B410 3 323	324	12	300	IH100	1 ●
		B410 6 015	15	-	-	IH140	25 ●
		B410 6 022	22	-	-	IH140	25 ●
		B410 6 028	28	-	-	IH140	25 ●
		B410 6 035	35	-	-	IH140	25 ●
		B410 6 042	42	-	-	IH140	25 ●
		B410 6 054	54	-	-	IH140	25 ●
		B410 6 066	66	-	-	IH140	1 ○
		B410 6 076	76	-	-	IH140	15 ●
		B410 6 108	108	-	-	IH140	1 ●
		B410 6 133	133	-	-	IH140	1 ○
		B410 6 159	159	-	-	IH140	1 ○

IH100 Split Band Clips Over Insulation ≤ 152 OD	Part number	Dimensions / Techn. details		Pack
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Catalogue page P 04 10



- standard finish: zinc plated
- also available in:
 - self colour
 - hot dip galvanized

B409 3 046	46	30 x 3.0	1
B409 3 053	53	30 x 3.0	1
B409 3 056	56	30 x 3.0	1
B409 3 063	63	30 x 3.0	1
B409 3 066	66	30 x 3.0	1
B409 3 070	70	30 x 3.0	1
B409 3 073	73	30 x 3.0	1
B409 3 077	77	30 x 3.0	1
B409 3 081	81	30 x 3.0	1
B409 3 083	83	30 x 3.0	1
B409 3 085	85	30 x 3.0	1
B409 3 089	89	30 x 3.0	1
B409 3 092	92	30 x 3.0	1
B409 3 096	96	30 x 3.0	1
B409 3 100	100	30 x 3.0	1
B409 3 103	103	30 x 3.0	1
B409 3 106	106	40 x 3.0	1
B409 3 109	109	40 x 3.0	1
B409 3 114	114	40 x 3.0	1
B409 3 117	117	40 x 3.0	1
B409 3 122	122	40 x 3.0	1
B409 3 127	127	40 x 3.0	1
B409 3 132	132	40 x 3.0	1
B409 3 139	139	40 x 3.0	1
B409 3 143	143	40 x 3.0	1
B409 3 148	148	40 x 3.0	1
B409 3 152	152	40 x 3.0	1

IH100 Split Band Clips Over Insulation > 155 OD	Part number	Dimensions / Techn. details		Pack
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Catalogue page P 04 15



- standard finish: zinc plated
- also available in:
 - self colour
 - hot dip galvanized

B409 3 155	155	40 x 3.0	1
B409 3 159	159	40 x 3.0	1
B409 3 163	163	40 x 3.0	1
B409 3 168	168	40 x 3.0	1
B409 3 172	172	40 x 3.0	1
B409 3 176	176	40 x 3.0	1
B409 3 180	180	40 x 3.0	1
B409 3 183	183	40 x 5.0	1
B409 3 190	190	40 x 5.0	1
B409 3 193	193	40 x 5.0	1
B409 3 196	196	40 x 5.0	1
B409 3 202	202	40 x 5.0	1
B409 3 205	205	40 x 5.0	1
B409 3 212	212	40 x 5.0	1
B409 3 216	216	40 x 5.0	1

IH100 Split Band Clips Over Insulation > 155 OD

Part number	Dimensions / Techn. details		Pack
B409 3 220	220	40 x 5.0	1 ●
B409 3 225	225	40 x 5.0	1 ●
B409 3 232	232	40 x 5.0	1 ●
B409 3 236	236	40 x 5.0	1 ●
B409 3 240	240	40 x 5.0	1 ●
B409 3 250	250	40 x 5.0	1 ●
B409 3 260	260	40 x 5.0	1 ●
B409 3 270	270	40 x 5.0	1 ●
B409 3 280	280	50 x 6.0	1 ●
B409 3 302	302	50 x 6.0	1 ●
B409 3 320	320	50 x 6.0	1 ●

IH103 / IH142 Saddle Guides

Part number	Dimensions / Techn. details			Pack	
B320 3 024	24	1/2	15	IH103	50 ●
B320 3 030	30	3/4	20	IH103	50 ●
B320 3 037	37	1	25	IH103	50 ●
B320 3 046	46	1 1/4	32	IH103	50 ●
B320 3 054	54	1 1/2	40	IH103	50 ●
B320 3 064	64	2	50	IH103	25 ●
B320 3 082	82	2 1/2	65	IH103	25 ●
B320 3 095	95	3	80	IH103	25 ●
B320 3 120	120	4	100	IH103	25 ●
B320 3 146	146	5	125	IH103	1 ○
B320 3 176	176	6	150	IH103	25 ●
B320 6 017	15	-	-	IH142	50 ●
B320 6 024	22	-	-	IH142	50 ●
B320 6 030	28	-	-	IH142	50 ●
B320 6 038	35	-	-	IH142	50 ●
B320 6 045	42	-	-	IH142	50 ●
B320 6 058	54	-	-	IH142	50 ●
B320 6 070	66	-	-	IH142	1 ●
B320 6 080	76	-	-	IH142	25 ●
B320 6 112	108	-	-	IH142	1 ●
B320 6 140	133	-	-	IH142	1 ○
B320 6 165	159	-	-	IH142	1 ○

Catalogue page P 04 25



- Type IH103: zinc plated, for steel pipe
- Type IH142: nylon coated, for copper pipe
- with clearance to allow movement
- also available in:
 - self colour
 - hot dip galvanized

PP-strip is used to isolate copper pipe from any supporting steel structure. Please refer to page Q 05 85. Please specify if required.

IH104 / IH143 Saddle Clamps	Part number	Dimensions / Techn. details				Pack
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Catalogue page P 04 30



- Type IH104: zinc plated, for steel pipe
- Type IH143: nylon coated, for copper pipe
- tight fit with pull down
- also available in:
 - self colour
 - hot dip galvanized
 - stainless steel

B310 3 021	21	1/2	15	IH104	25	●
B310 3 027	27	3/4	20	IH104	25	●
B310 3 034	34	1	25	IH104	25	●
B310 3 042	42	1 1/4	32	IH104	25	●
B310 3 048	48	1 1/2	40	IH104	25	●
B310 3 060	60	2	50	IH104	25	●
B310 3 076	76	2 1/2	65	IH104	25	●
B310 3 089	89	3	80	IH104	25	●
B310 3 114	114	4	100	IH104	25	●
B310 3 140	140	5	125	IH104	25	●
B310 3 168	168	6	150	IH104	25	●
B310 3 194	194	7	175	IH104	1	○
B310 3 219	219	8	200	IH104	1	●
B310 3 245	245	9	225	IH104	1	○
B310 3 273	273	10	250	IH104	1	●
B310 6 015	15	-	-	IH143	25	●
B310 6 022	22	-	-	IH143	25	●
B310 6 028	28	-	-	IH143	25	●
B310 6 035	35	-	-	IH143	25	●
B310 6 042	42	-	-	IH143	25	●
B310 6 054	54	-	-	IH143	25	●
B310 6 066	66	-	-	IH143	1	●
B310 6 076	76	-	-	IH143	25	●
B310 6 108	108	-	-	IH143	1	●
B310 6 133	133	-	-	IH143	1	○
B310 6 159	160	-	-	IH143	1	●

PP-strip is used to isolate copper pipe from any supporting steel structure. Please refer to page Q 05 85. Please specify if required.

IH105 / IH144 Standard U Bolts	Part number	Dimensions / Techn. details				Pack
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Catalogue page P 04 35




- Type IH105: zinc plated, for steel pipe
- Type IH144: nylon coated, for copper pipe
- other finishes available on request


B710 3 022	21	1/2	15	IH105	100	●
B710 3 023	27	3/4	20	IH105	100	●
B710 3 035	34	1	25	IH105	100	●
B710 3 042	42	1 1/4	32	IH105	100	●
B710 3 049	48	1 1/2	40	IH105	50	●
B710 3 061	60	2	50	IH105	50	●
B710 3 076	77	2 1/2	65	IH105	50	●
B710 3 089	92	3	80	IH105	50	●
B710 3 115	116	4	100	IH105	25	●
B710 3 140	142	5	125	IH105	25	●
B710 3 168	172	6	150	IH105	25	●
B710 3 195	195	7	175	IH105	1	●
B710 3 219	220	8	200	IH105	1	○


IH105 / IH144 Standard U Bolts	Part number	Dimensions / Techn. details				Pack
	B710 3 273	273	10	250	IH105	1 ●
	B710 3 324	324	12	300	IH105	1 ●
	B710 6 015	15	-	-	IH144	1 ○
	B710 6 022	22	-	-	IH144	1 ○
	B710 6 028	28	-	-	IH144	1 ●
	B710 6 035	35	-	-	IH144	1 ○
	B710 6 042	42	-	-	IH144	1 ○
	B710 6 054	54	-	-	IH144	1 ○
	B710 6 066	66	-	-	IH144	1 ○
	B710 6 076	76	-	-	IH144	1 ○
	B710 6 108	108	-	-	IH144	1 ○
	B710 6 133	133	-	-	IH144	1 ○
	B710 6 159	159	-	-	IH144	1 ○

PP-strip is used to isolate copper pipe from any supporting steel structure. Please refer to page Q.05 85. Please specify if required.

IH105 / IH144 Extended U Bolts	Part number	Dimensions / Techn. details				Pack
Catalogue page P 04 40  <ul style="list-style-type: none"> ■ Type IH105: zinc plated, for steel pipe ■ Type IH144: nylon coated, for copper pipe ■ other finishes available on request 	B712 3 022	21	1/2	15	IH105	100 ○
	B712 3 028	27	1/4	20	IH105	100 ○
	B712 3 035	34	1	25	IH105	100 ○
	B712 3 042	42	1 1/4	32	IH105	100 ○
	B712 3 049	48	1 1/2	40	IH105	50 ●
	B712 3 061	60	2	50	IH105	50 ●
	B712 3 076	77	2 1/2	65	IH105	50 ●
	B712 3 089	92	3	80	IH105	50 ●
	B712 3 115	116	4	100	IH105	25 ●
	B712 3 140	142	5	125	IH105	25 ●
	B712 3 168	172	6	150	IH105	25 ●
	B712 6 015	15	-	-	IH144	1 ○
	B712 6 022	22	-	-	IH144	1 ○
	B712 6 028	28	-	-	IH144	1 ○
	B712 6 035	35	-	-	IH144	1 ○
	B712 6 054	54	-	-	IH144	1 ○
	B712 6 066	66	-	-	IH144	1 ○
	B712 6 076	76	-	-	IH144	1 ○
	B712 6 108	108	-	-	IH144	1 ○

PP-strip is used to isolate copper pipe from any supporting steel structure. Please refer to page Q.05 85. Please specify if required.

IH120 / IH147 Roller Chair and Guides		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page P 04 60</p>  <ul style="list-style-type: none"> ■ Type IH120: standard finish: zinc plated ■ Type IH147: standard finish: self colour (Base / Chair), nylon coated (Guide) 	B611 3 076	76	2½	65	IH120	1 ●
	B611 3 089	89	3	80	IH120	1 ●
	B611 3 114	114	4	100	IH120	1 ●
	B611 3 140	140	5	125	IH120	1 ●
	B611 3 168	168	6	150	IH120	1 ●
	B611 3 193	194	7	175	IH120	1 ○
	B611 3 219	219	8	200	IH120	1 ●
	B611 3 273	273	10	250	IH120	1 ●
	B611 3 323	323	12	300	IH120	1 ●
	B611 3 356	356	14	350	IH120	1 ○
	B611 3 406	406	16	400	IH120	1 ○
	B611 3 457	457	18	450	IH120	1 ○

IH121 Single Roller Brackets		Part number	Dimensions / Techn. details			Pack
<p>Catalogue page P 04 65</p>  <ul style="list-style-type: none"> ■ standard finish: zinc plated 	B620 3 034	34	1	25	1 ●	
	B620 3 042	42	1¼	32	1 ○	
	B620 3 048	48	1½	40	1 ●	
	B620 3 060	60	-	50	1 ●	
	B620 3 076	76	2½	65	1 ●	
	B620 3 089	89	1	80	1 ●	
	B620 3 114	114	4	100	1 ●	
	B620 3 140	140	5	125	1 ○	
	B620 3 168	168	6	150	1 ●	
	B620 3 193	193	7	175	1 ○	
	B620 3 219	219	8	200	1 ○	
	B620 3 273	273	10	250	1 ○	

NB. Drop rods for hanging Roller Brackets should be as short and rigid as possible, to prevent 'swinging' (ideally 300 mm or less).

IH123 Heavy Duty Roller Brackets

Part number

Dimensions / Techn. details

Pack

Catalogue page P 04 75



- standard finish:
 - zinc plated

B623 3 034	34	1	25	1	○
B623 3 042	42	1¼	32	1	○
B623 3 048	48	1½	40	1	○
B623 3 060	60	2	50	1	○
B623 3 076	76	2½	65	1	○
B623 3 089	89	3	80	1	○
B623 3 114	114	4	100	1	○
B623 3 140	140	5	125	1	○
B623 3 168	168	6	150	1	○
B623 3 193	194	7	175	1	○
B623 3 219	219	8	200	1	○
B623 3 273	273	10	250	1	○
B623 3 323	323	12	300	1	○

NB. Drop rods for hanging Roller Brackets should be as short and rigid as possible, to prevent 'swinging' (ideally 300 mm or less).

IH125 / IH151 Roller and Chairs

Part number

Dimensions / Techn. details

Pack


Catalogue page P 04 80




- Type IH125: zinc plated, for steel pipe
- Type IH151: nylon coated, for copper pipe
- see also: IC-clamp (for conduit or cable); square nut (for threaded rod) or protective cap (to avoid damaging of protected surfaces)
- for sizes 15 NB to 50 NB see Part No. B615 3 000 on page T 05 55

B610 3 076	76	-	65	IH125	1	○
B610 3 089	89	3	80	IH125	1	○
B610 3 114	114	4	100	IH125	1	○
B610 3 139	140	5	125	IH125	1	○
B610 3 168	168	6	150	IH125	1	○
B610 3 219	219	8	200	IH125	1	○
B610 3 273	273	10	250	IH125	1	○
B610 3 323	324	-	300	IH125	1	○

The Roller Support Bar is supplied with threaded rod and 2 nuts as shown, although it can be supplied using circlips, or welded washers on request.

BIS Sheet Metal Sleeve		Part number	Dimensions / Techn. details		Pack
<p>Catalogue page P 04 82</p>  <ul style="list-style-type: none"> ■ load spreading ■ over laps insulation block to assist vapour seal ■ prevents damage to insulation ■ suitable for use with rollers ■ material: steel ■ pre-galvanized 		234 0 150051	45 - 51		1 ○
		234 0 150057	52 - 57		1 ○
		234 0 150064	58 - 66		1 ○
		234 0 150071	68 - 72		1 ○
		234 0 150077	75 - 79		1 ○
		234 0 150084	83 - 88		1 ○
		234 0 150092	90 - 95		1 ○
		234 0 150101	98 - 104		1 ○
		234 0 150110	107 - 111		1 ○
		234 0 150120	114 - 120		1 ○
		234 0 150122	122 - 130		1 ○
		234 0 150139	135 - 142		1 ○
		234 0 150148	144 - 150		1 ○
		234 0 150154	151 - 158		1 ○
		234 0 150164	162 - 169		1 ○
		234 0 150180	173 - 183		1 ○
		234 0 150189	188 - 194		1 ○
		234 0 150208	200 - 210		1 ○
		234 0 150218	213 - 220		1 ○
		234 0 150229	228 - 240		1 ○
	234 0 150248	240 - 248		1 ○	
	234 0 150254	249 - 254		1 ○	
	234 0 150260	256 - 260		1 ○	
	234 0 150268	261 - 268		1 ○	
	234 0 150274	269 - 274		1 ○	
	234 0 150279	275 - 280		1 ○	

PP Strips for IH142, IH143 and IH144		Part number	Dimensions / Techn. details		Pack	
<p>Catalogue page P 04 85</p>  <ul style="list-style-type: none"> ■ material: PP (polypropylene), black 		B910 7 028	54	25 x 3.0	7	1 ○
		B910 7 034	60	25 x 3.0	7	1 ○
		B911 1 054	94	40 x 3.0	11	1 ●
		B911 1 061	101	40 x 3.0	11	1 ●
		B911 1 065	105	40 x 3.0	11	1 ●
		B911 1 069	109	40 x 3.0	11	1 ●
		B911 1 072	112	40 x 3.0	11	1 ●
		B911 1 075	115	40 x 3.0	11	1 ●
		B911 1 083	123	40 x 3.0	11	1 ●
		B911 1 087	127	40 x 3.0	11	1 ●
		B911 1 096	136	40 x 3.0	11	1 ●
		B911 1 102	142	40 x 3.0	11	1 ●
		B911 1 108	148	40 x 3.0	11	1 ●
		B911 1 114	154	40 x 3.0	11	1 ●
		B911 1 120	160	40 x 3.0	11	1 ○
		B911 4 088	128	40 x 3.0	14	1 ○

PP Strips for IH142, IH143 and IH144

Part number	Dimensions / Techn. details			Pack
B911 4 120	160	40 x 3.0	14	1 ○
B911 4 132	172	40 x 3.0	14	1 ○
B911 4 138	178	40 x 3.0	14	1 ○
B911 4 140	180	40 x 3.0	14	1 ○
B911 4 146	186	40 x 3.0	14	1 ○
B911 4 148	188	40 x 3.0	14	1 ○
B911 4 160	200	40 x 3.0	14	1 ○
B911 4 176	216	40 x 3.0	14	1 ○
B911 4 190	230	40 x 3.0	14	1 ○
B911 4 230	270	40 x 3.0	14	1 ○
B911 4 236	276	40 x 3.0	14	1 ○
B911 4 244	284	40 x 3.0	14	1 ○

IH200 Standard Eye Bolts (Open Eye)


Part number	Dimensions / Techn. details			Pack
B665 3 608	M6	Ø 8	1	●
B665 3 610	M6	Ø 8	1	○
B665 3 615	M6	Ø 8	1	○
B665 3 622	M6	Ø 8	1	○
B665 3 630	M6	Ø 8	1	●
B665 3 808	M8	Ø 10	1	○
B665 3 815	M8	Ø 10	1	●
B665 3 008	M10	Ø 12	1	●
B665 3 015	M10	Ø 12	1	○
B665 3 022	M10	Ø 12	1	○
B665 3 030	M10	Ø 12	1	●
B665 3 108	M12	Ø 14	1	●
B665 3 115	M12	Ø 14	1	○
B665 3 122	M12	Ø 14	1	●
B665 3 215	M16	Ø 18	1	○
B665 3 230	M16	Ø 18	1	○


Catalogue page P 12 05




■ standard finish:
- zinc plated

Thread length on M6, M8, M10 and M12 x 80 is 35 mm.
Minimum eyebolt length on M16 and above is 150 mm.

IH208 / IH209 Hemispherical Washers and Cups		Part number	Dimensions / Techn. details			Pack
Catalogue page P 12 10  <ul style="list-style-type: none"> ■ radiused bottom ■ standard finish: zinc plated 	B670 3 006	20	Washer	IH208	1	○
	B670 3 008	23	Washer	IH208	1	○
	B670 3 010	25	Washer	IH208	1	●
	B670 3 012	28	Washer	IH208	1	●
	B670 3 016	35	Washer	IH208	1	○
	B670 3 020	45	Washer	IH208	1	○
	B670 3 024	57	Washer	IH208	1	○
	B671 3 006	20	Cup	IH209	1	○
	B671 3 010	25	Cup	IH209	1	●
	B671 3 012	28	Cup	IH209	1	●
	B671 3 016	35	Cup	IH209	1	○
	B671 3 020	45	Cup	IH209	1	○
	B671 3 024	57	Cup	IH209	1	○

IH212 Link Eyes		Part number	Dimensions / Techn. details			Pack
Catalogue page P 12 25  <ul style="list-style-type: none"> ■ standard finish: <li style="padding-left: 15px;">- pre-galvanized <li style="padding-left: 15px;">- zinc plated 	B676 2 006	32	25 x 1.5	pre-galvanized	1	○
	B676 2 010	40	25 x 1.5	pre-galvanized	1	●
	B676 2 012	50	25 x 1.5	pre-galvanized	1	●
	B676 3 016	60	50 x 3.0	zinc plated	1	●

IH270 Bow Nuts		Part number	Dimensions / Techn. details			Pack
Catalogue page P 12 55  <ul style="list-style-type: none"> ■ standard finish: zinc plated 	B698 3 010	18		M10	1	●
	B698 3 012	20		M12	1	●
	B698 3 016	20		M16	1	●
	B698 3 020	25		M20	1	○
	B698 3 024	30		M24	1	○

Larger sizes available on request.

BIS Twinlok® Test Plugs



Unique twin core valve system

- Unique twin core valve system
- Absolute safe pressure readings
- Greater accuracy
- Space saving
- Versatile use

BIS Twinlok® Test Plugs

Part number

Dimensions / Techn. details

Pack

Catalogue page P 16 05



- for temperature, pressure and flow measurements
- 1/4" BSPT Thread
- max. pressure 500 P.S.I. (35 bar)
- EPDM core
- max. temperature 135 °C

Part number	Dimensions / Techn. details	Pack
063 4 000	Test Plug, brass	10 ●
063 4 001	Test Plug, brass, extended	5 ●
063 4 009	Test Plug, stainless steel	10 ●

Note: The use of Silicone oil is recommended as a lubricant when inserting probes, to avoid possible damage to the Twinlok® Test Plug core.

Pressure and Temperature Gauges

Part number

Dimensions / Techn. details

Pack

Catalogue page P 16 10



- calibrated in P.S.I. and Bar
- liquid filled gauges also available

Part number	Dimensions / Techn. details	Pack
063 4 511	Pressure 0-15 PSI	1 ●
063 4 514	Pressure 0-30 PSI	1 ●
063 4 518	Pressure 0-60 PSI	1 ●
063 4 510	Pressure 0-100 PSI	1 ●
063 4 512	Pressure 0-150 PSI	1 ●
063 4 513	Pressure 0-200 PSI	1 ●
063 4 533	Pressure gauge adaptor probe 1/4" BSP	1 ●
063 4 721	Temperature -10 °C to +110 °C	1 ●

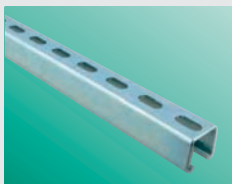
BIS Pacifyre[®] MK II Fire Sleeve

Strong in fire resistance



Innovative
Solutions

Your specialist in innovative fixing solutions



BIS RapidStrut[®]



BIS Pacifyre[®] EFC





BISMAT[®] Flash



Tangit FP 550 2-c

BIS Fire Protection Systems

BIS Pacifyre® MK II Fire Sleeve (P)	Part number	Dimensions / Techn. details	Pack
<p>Catalogue page U 04 05</p>   <ul style="list-style-type: none"> ■ for pipe penetrations in accordance with e.g. DIN 4102-11 or DIN EN 1366-3 in walls (solid walls or light partition walls) and ceilings with fire protection requirements ■ the sleeve provides a guaranteed protection against fire, smoke and noise ■ for use with plastic pipe ■ expansion and contraction of the pipe remains possible ■ minimum space required, therefore can be applied in areas of hard accessibility ■ a higher flexibility due to minimal overhang on wall and ceiling seals ■ no tools, drilling or extra fixing materials needed ■ simple and easy to install ■ maintenance free ■ noise reduction test report from IRB (Fraunhofer Institut - Germany) available ■ tested according to EN 1366-3 ■ in accordance with many EU country building regulations 	215 1 015017	15 - 17	1 ●
	215 1 018020	18 - 20	1 ●
	215 4 024026	23 - 28	1 ●
	215 4 030032	29 - 36	1 ●
	215 4 039041	38 - 44	1 ●
	215 4 048050	46 - 52	1 ●
	215 4 051053	48 - 55	1 ●
	215 4 054056	52 - 58	1 ●
	215 4 063065	61 - 67	1 ●
	215 4 075077	70 - 79	1 ●
	215 4 078080	74 - 82	1 ●
	215 4 090092	86 - 94	1 ●
	215 4 108110	104 - 113	1 ●
	215 4 114116	111 - 119	1 ●
	215 8 123125	120 - 128	1 ●
	215 8 159161	155 - 164	1 ●

For BIS Pacifyre® MK II Fire Sleeves in other sizes, please contact your Walraven Sales Company.

BIS Pacifyre® MK II Fire Sleeve (M) – Small

Catalogue page U 04 10



- for pipe penetrations of insulated or non-insulated metal pipes in accordance with e.g. BS476-20, in walls (solid walls or light partition walls) and ceilings with fire protection requirements
- the sleeve provides a guaranteed protection against fire, smoke and noise
- expansion and contraction of the pipe remains possible
- minimum space required, therefore can be applied in areas of hard accessibility
- a higher flexibility due to minimal overhang on wall and ceiling seals
- no tools, drilling or extra fixing materials needed
- simple and easy to install
- maintenance free
- noise reduction test report from IRB (Fraunhofer Institut - Germany) available
- tested according to EN 1366-3
- in accordance with many EU country building regulations

Part number	Dimensions / Techn. details	Pack
214 1 015017	15 - 17 3/8	10 1 ●
214 1 018020	18 - 20 -	- 1 ●
214 1 021023	21 - 23 1/2	15 1 ●
214 1 024026	24 - 26 -	- 1 ○
214 1 027029	27 - 29 3/4	20 1 ●
214 1 030032	30 - 32 -	- 1 ●
214 1 033035	33 - 35 1	25 1 ●
214 1 036038	36 - 38 -	- 1 ●
214 1 039041	39 - 41 -	- 1 ●
214 1 042044	42 - 44 1 1/4	32 1 ●
214 1 045047	45 - 47 -	- 1 ●
214 1 048050	48 - 50 1 1/2	40 1 ●
214 1 051053	51 - 53 -	- 1 ●
214 1 054056	54 - 56 -	- 1 ●
214 1 057059	57 - 59 -	- 1 ●
214 1 060062	60 - 62 2	50 1 ●
214 1 063065	63 - 65 -	- 1 ●
214 1 066068	66 - 68 -	- 1 ●
214 1 069071	69 - 71 -	- 1 ●
214 1 072074	72 - 74 -	- 1 ●
214 1 075077	75 - 77 2 1/2	65 1 ●
214 1 078080	78 - 80 -	- 1 ●
214 1 081083	81 - 83 -	- 1 ●
214 1 084086	84 - 86 -	- 1 ●
214 1 087089	87 - 89 3	80 1 ●
214 1 090092	90 - 92 -	- 1 ●
214 1 093095	93 - 95 -	- 1 ●
214 1 096098	96 - 98 -	- 1 ●
214 1 099101	99 - 101 -	- 1 ●
214 1 102104	102 - 104 -	- 1 ●
214 1 105107	105 - 107 -	- 1 ●
214 1 108110	108 - 110 -	- 1 ●

For BIS Pacifyre® MK II Fire Sleeves in other sizes, please contact your Walraven Sales Company.

BIS Pacifyre® MK II Fire Sleeve (M) – Medium

Part number

Dimensions / Techn. details

Pack

Catalogue page U 04 11



- for pipe penetrations of insulated or non-insulated metal pipes in accordance with e.g. BS476-20, in walls (solid walls or light partition walls) and ceilings with fire protection requirements
- the sleeve provides a guaranteed protection against fire, smoke and noise
- expansion and contraction of the pipe remains possible
- minimum space required, therefore can be applied in areas of hard accessibility
- a higher flexibility due to minimal overhang on wall and ceiling seals
- no tools, drilling or extra fixing materials needed
- simple and easy to install
- maintenance free
- noise reduction test report from IRB (Fraunhofer Institut - Germany) available
- tested according to EN 1366-3
- in accordance with many EU country building regulations

214 1 111113	111 - 113	-	-	1	●
214 1 114116	114 - 116	4	100	1	●
214 1 117119	117 - 119	-	-	1	●
214 1 120122	120 - 122	-	-	1	●
214 1 123125	123 - 125	-	-	1	●
214 1 126128	126 - 128	-	-	1	●
214 1 129131	129 - 131	-	-	1	●
214 1 132134	132 - 134	-	-	1	●
214 1 135137	135 - 137	-	-	1	●
214 1 138140	138 - 140	5	125	1	●
214 1 141143	141 - 143	-	-	1	●
214 1 144146	144 - 146	-	-	1	●
214 1 147149	147 - 149	-	-	1	●
214 1 150152	150 - 152	-	-	1	●
214 1 153155	153 - 155	-	-	1	●
214 1 156158	156 - 158	-	-	1	●
214 1 159161	159 - 161	-	-	1	●
214 1 162164	162 - 164	-	-	1	●
214 1 165167	165 - 167	-	-	1	●
214 1 168170	168 - 170	6	150	1	●
214 1 171173	171 - 173	-	-	1	○
214 1 174176	174 - 176	-	-	1	○
214 1 177179	177 - 179	-	-	1	○
214 1 180182	180 - 182	-	-	1	●
214 1 183185	183 - 185	-	-	1	○
214 1 186188	186 - 188	-	-	1	●
214 1 189191	189 - 191	-	-	1	●
214 1 192194	192 - 194	-	-	1	●
214 1 195197	195 - 197	-	-	1	●

For BIS Pacifyre® MK II Fire Sleeves in other sizes, please contact your Walraven Sales Company.

BIS Pacifyre® MK II Fire Sleeve (M) – Large Part number Dimensions / Techn. details Pack

Catalogue page U 04 12



- for pipe penetrations of insulated or non-insulated metal pipes in accordance with e.g. BS476-20, in walls (solid walls or light partition walls) and ceilings with fire protection requirements
- the sleeve provides a guaranteed protection against fire, smoke and noise
- expansion and contraction of the pipe remains possible
- minimum space required, therefore can be applied in areas of hard accessibility
- a higher flexibility due to minimal overhang on wall and ceiling seals
- no tools, drilling or extra fixing materials needed
- simple and easy to install
- maintenance free
- noise reduction test report from IRB (Fraunhofer Institut - Germany) available
- tested according to EN 1366-3
- in accordance with many EU country building regulations

214 1 198200	198 - 200	-	-	1	●
214 1 201203	201 - 203	-	-	1	●
214 1 204206	204 - 206	-	-	1	●
214 1 207209	207 - 209	-	-	1	●
214 1 210212	210 - 212	-	-	1	●
214 1 213215	213 - 215	-	-	1	○
214 1 216218	216 - 218	-	-	1	●
214 1 219221	219 - 221	8	200	1	○
214 1 222224	222 - 224	-	-	1	●
214 1 225227	225 - 227	-	-	1	○
214 1 228230	228 - 230	-	-	1	●
214 1 231233	231 - 233	-	-	1	○
214 1 234236	234 - 236	-	-	1	○
214 1 237239	237 - 239	-	-	1	○
214 1 240242	240 - 242	-	-	1	●
214 1 243245	243 - 245	-	-	1	○
214 1 246248	246 - 248	-	-	1	○
214 1 249251	249 - 251	-	-	1	○
214 1 252254	252 - 254	-	-	1	○
214 1 255257	255 - 257	-	-	1	○
214 1 258260	258 - 260	-	-	1	○
214 1 261263	261 - 263	-	-	1	○
214 1 264266	264 - 266	-	-	1	○
214 1 267269	267 - 269	-	-	1	●
214 1 270272	270 - 272	-	-	1	○
214 1 273275	273 - 275	10	250	1	○
214 1 276278	276 - 278	-	-	1	○

For BIS Pacifyre® MK II Fire Sleeves in other sizes, please contact your Walraven Sales Company.

BIS Pacifyre® EFC Fire Collar Part number Dimensions / Techn. details Pack

Catalogue page U 04 25



- suitable for areas which are difficult to access, like corners
- a small number of intumescent layers required, so a smaller drill hole is possible
- suitable for damp conditions
- problem solver: easy on-site modification
- penetrations in corners by using partial Fire Collar allowed by regulations (only 2/3 wrapping necessary)

213 2 100600	Carton box			1	●
213 2 100601	3 m Stainless Steel Band			1	○
213 2 100602	Refill set: 18 fixing hooks + plugs, screws and washers			1	○
213 2 100603	-			1	●

BIS Pacifyre® EFC Fire Collar

Part number

Dimensions / Techn. details

Pack

- only 1 box for numerous penetrations and all pipe dimensions up to outer diameter 160 mm
- high flexibility due to self-adhesive strip
- no waste
- all fixing materials included
- tested according to EN 1366-3
- European approval: ETA-13/0793

BIS Pacifyre® AWM III Fire Collar

Part number

Dimensions / Techn. details

Pack

Catalogue page U 04 35



- built-up fire collar for plastic (combustible) pipes and pipe systems. For apertures in walls (solid walls or light partition walls) and ceilings with fire protection in accordance with UK Legislation
- suitable for damp conditions
- low collar height, allowing building of bends, sockets and T-joints close to the wall or ceiling
- should be fitted to both sides of a wall and on one side below a ceiling
- build in is possible without additional fixings (by simply bending and sliding the fixing tabs)
- economical alternative for the BIS Pacifyre® AWM II in standard installation situations
- in problematic built-in situations the use of an oversized collar is permitted (up to max. 3 sizes bigger)
- easily installed due to 2 part collar construction
- various finish possibilities, e.g. acrylic sealant, mortar, etc.
- maintenance free
- zero distance is possible between fire collars
- tested according to EN 1366-3
- European approval: ETA-13/0906

Part number	Dimensions	Techn. details	Fixing tabs	Pack
213 5 032034	15 - 32	38	2 fixing tabs	10 ○
213 5 040042	20 - 40	46	2 fixing tabs	10 ○
213 5 050052	25 - 50	56	2 fixing tabs	10 ○
213 5 063065	32 - 63	69	4 fixing tabs	10 ○
213 5 075077	40 - 75	81	4 fixing tabs	10 ○
213 5 090092	50 - 90	96	4 fixing tabs	10 ○
213 5 110112	63 - 110	116	4 fixing tabs	10 ○
213 5 125125	75 - 125	132	4 fixing tabs	10 ○
213 5 140140	90 - 140	144	4 fixing tabs	2 ○
213 5 160160	110 - 160	164	4 fixing tabs	2 ○
213 5 180180	125 - 180	184	4 fixing tabs	2 ○
213 5 200200	140 - 200	204	4 fixing tabs	2 ○

BIS Pacifyre® FPM		Part number	Dimensions / Techn. details	Pack
Catalogue page U 04 82	<ul style="list-style-type: none"> for mortaring around cables, pipes and sleeves recommended for fire safe and smoketight sealing ventilation flaps, ventilation ducts and fire protection doors, as per EN 998-2 for filling joints and holes in walls and ceilings also suitable for application by hand can be used with a mortar gun non shrink any texture, from free-flowing to very firm good surface adhesion complies with DIN 4102, DIN EN 13501, DIN EN 998-2 and MLAR 2005/LAR/RbALei 	218 0 015300	15 kg	1



BIS Pacifyre® ID-Card		Part number	Dimensions / Techn. details	Pack
Catalogue page U 04 85	<ul style="list-style-type: none"> for identification of pipe penetrations sealed with BIS Pacifyre® and/or Tangit products 	214 9 999903	Card for walls and ceilings	1



Tangit FP 550 2C Fire Protection Foam		Part number	Dimensions / Techn. details	Pack
Catalogue page U 08 05	<ul style="list-style-type: none"> for fire-proof and smoke-proof sealing of partitions for pipes, cables and combinations also for light partition walls greater than 10 cm thick fire-proof and gas-tight for at least 90 minutes reliable and automatic filler for a wide variety of partitions 	218 1 550	300 ml	6



Tangit FP 550 2C Fire Protection Foam	Part number	Dimensions / Techn. details	Pack
---------------------------------------	-------------	-----------------------------	------



- discard the initial material (about 3 strokes) until the components are being thoroughly mixed
- always apply with Tangit 2C Pistol PP6
- excellent and economical foam yield (approx. 3.5 litres)
- legislatively safe
- rapid hardening: can be cut after approx. 4 minutes; fully hardened after approx. 20 minutes
- tested according to EN 1366-3
- compliant with DIN 4102 and MLAR 2005/LAR/RbALei
- flame-retardant as per DIN 4102 (B1)
- replacement mixing tubes are available (Tangit FP 504 Spare Mixer Pack)
- for further information please refer to our other technical documents

Tangit FP 800 Fire Protection Coating	Part number	Dimensions / Techn. details	Pack
---------------------------------------	-------------	-----------------------------	------

Catalogue page U 08 10



- Tangit FP 800 Fire Protection Coating is an integral part of the Tangit FP 550 2C Fire Protection Foam system
- for final coating of partitions for pipes and cables and combination partitions with Tangit FP 550
- for coating cables, cable bundles and cable trays to stop fire spreading
- creates a reliable protective coating when heated
- simple to apply with a soft brush
- smoketight in combination with Tangit FP 550 2C Fire Protection Foam
- no halogens, heavy metal compounds or organic solvents
- tested according to EN 1366-3
- DIN 4102 compliant
- licensed by the DIBT
- marker signs should be placed on fire protection partitions

218 1 801	1 kg	2	○
218 1 800	15 kg	1	○

Standard Pipe Sizes

Steel		
Inch NB	Metric NB	Pipe O/D
1/2"	15	21.3
3/4"	20	26.9
1"	25	33.7
1 1/4"	32	42.4
1 1/2"	40	48.3
2"	50	60.3
2 1/2"	65	76.1
3"	80	88.9
4"	100	114.3
5"	125	139.7
6"	150	168.3
7"	175	193.7
8"	200	219.1
9"	225	244.5
10"	250	273.0
12"	300	323.9
14"	350	355.6
16"	400	406.4
18"	450	457.0
20"	500	508.0
22"	550	559.0
24"	600	610.0

Copper
Pipe O/D
15.0
22.0
28.0
35.0
42.0
54.0
66.0 / 67.0
76.0
108.0
133.0
159.0
-
219.0
-
270.0
323.0

For plastic, stainless and mannesman pipe, all pipe outside diameters are dependant on pipe specification.

Load / weight conversion details

1 N	= 98 g (0.098 kg)	1 kg	= 10.2 N
10 N	= 980 g (0.98 kg)	10 kgs	= 102 N
100 N	= 9.81 kg	100 kgs	= 1,020 N = 1.02 KN
1,000 N	= 1 KN = 98.06 kg	1,000 kgs	= 10,200 N = 10.2 KN
10,000 N	= 10 KN = 980.6 kg		

Information: Steel Pipes

Steel pipe suitable for screwing				Weight			L (max.)*
D			s (mm)	empty	filled	insulated	
(mm)	(")	(DN)		(kg / m)	(kg / m)	(kg / m)	m
10.2	1/8	6	2.00	0.41	0.44	0.59	1.25
13.5	1/4	8	2.35	0.65	0.71	0.88	1.50
17.2	3/8	10	2.35	0.85	0.97	1.17	2.25
21.3	1/2	15	2.65	1.22	1.42	1.63	2.75
26.9	3/4	20	2.65	1.58	1.95	2.20	3.00
33.7	1	25	3.25	2.44	3.02	3.51	3.50
42.4	1 1/4	32	3.25	3.14	4.15	4.86	3.75
48.3	1 1/2	40	3.25	3.61	4.98	5.94	4.25
60.3	2	50	3.65	5.10	7.31	8.83	4.75
76.1	2 1/2	65	3.65	6.51	10.23	12.77	5.50
88.9	3	80	4.05	8.47	13.59	17.08	6.00
114.3	4	100	4.50	12.10	20.80	26.31	6.00
139.7	5	125	4.85	16.20	29.47	35.45	6.00
165.1	6	150	4.85	19.20	38.16	44.83	6.00

Norm:

DIN EN 10255 - 11/2004

Material:

Steel 33-2, according to DIN 17100

Insulation:

 mineral wool (density = 80 kg/m³)

Steel pipe (seamless)				Weight			L (max.)*
D			s (mm)	empty	filled	insulated	
(mm)	(")	(DN)		(kg / m)	(kg / m)	(kg / m)	m
10.2	1/8	6	1.6	0.34	0.38	0.53	1.25
13.5	1/4	8	1.8	0.52	0.60	0.77	1.50
17.2	3/8	10	1.8	0.68	0.83	1.02	2.25
21.3	1/2	15	2.0	0.96	1.19	1.40	2.75
26.9	3/4	20	2.3	1.40	1.79	2.22	3.00
33.7	1	25	2.6	1.99	2.63	3.12	3.50
42.4	1 1/4	32	2.6	2.55	3.64	4.39	3.75
48.3	1 1/2	40	2.6	2.93	4.39	5.39	4.25
60.3	2	50	2.9	4.11	6.44	8.03	4.75
76.1	2 1/2	65	2.9	5.24	9.12	11.70	5.50
88.9	3	80	3.2	6.76	12.10	15.72	6.00
114.3	4	100	3.6	9.83	18.83	24.25	6.00
139.7	5	125	4.0	13.40	27.02	33.05	6.00
168.3	6	150	4.5	18.20	38.37	43.66	6.00
219.1	8	200	6.3	33.10	67.75	72.95	6.00
273.0	10	250	6.3	41.40	96.11	104.15	6.00
323.9	12	300	7.1	55.50	131.57	141.56	6.00
355.6	14	350	8.0	68.60	160.95	170.74	6.00
406.4	16	400	8.8	86.30	207.05	217.91	6.00
457.0	18	450	10.0	110.00	262.67	274.44	6.00
508.0	20	500	11.0	135.00	323.79	335.87	6.00
610.0	24	600	12.5	184.00	457.26	471.16	6.00

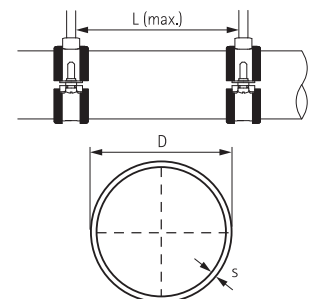
Norm:

DIN EN 10220 - 03/2003

Material:

Steel 37

Insulation:

 mineral wool (density = 80 kg/m³)


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* Maximum recommended fixing distance according to DIN 1988-2 (TRWI). The exact distances depend on the specific pipe-type and -manufacturer!

Information: Steel Pipe / Cast Iron Pipes

Welded steel pipe				Weight			L
D			s	empty	filled	insulated	(max.)*
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
10.2	1/8	6	1.6	0.34	0.38	0.53	1.25
13.5	1/4	8	1.8	0.52	0.60	0.77	1.50
17.2	3/8	10	1.8	0.68	0.83	1.02	2.25
21.3	1/2	15	2.0	0.95	1.19	1.40	2.75
26.9	3/4	20	2.0	1.23	1.64	2.07	3.00
33.7	1	25	2.0	1.56	2.25	2.74	3.50
42.4	1 1/4	32	2.3	2.27	3.39	4.17	3.75
48.3	1 1/2	40	2.3	2.61	4.11	5.13	4.25
60.3	2	50	2.3	3.29	5.73	7.38	4.75
76.1	2 1/2	65	2.6	4.71	8.66	11.29	5.50
88.9	3	80	2.9	6.15	11.57	15.17	6.00
114.3	4	100	3.2	8.77	17.91	23.31	6.00
139.7	5	125	3.6	12.10	25.88	31.92	6.00
168.3	6	150	4.0	16.20	36.57	43.16	6.00
219.1	8	200	4.5	23.80	58.78	66.55	6.00
273.0	10	250	5.0	33.00	88.13	96.81	6.00
323.9	12	300	5.6	44.00	121.84	131.49	6.00
355.6	14	350	5.6	48.30	142.06	153.04	6.00
406.4	16	400	6.3	62.20	184.80	196.81	6.00
457.0	18	450	6.3	70.00	226.01	239.27	6.00
508.0	20	500	6.3	77.90	270.56	286.13	6.00

Norm:

DIN EN 10220 - 03/2003

Material:

Steel 37-2

Insulation:

mineral wool (density = 80 kg/m³)

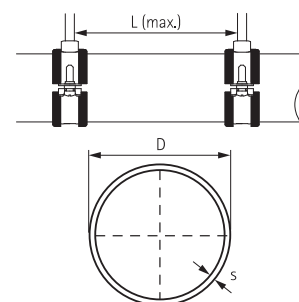
Cast iron pipe				Weight			L
D			s	empty	filled	insulated	(max.)*
(mm)	Tol. (mm)	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
48		40	3.0	3.10	4.48	-	2.00
58		50	3.5	4.30	6.34	-	2.00
78	+2.0 / -1.0	70	3.5	5.90	9.86	-	2.00
83		75	3.5	6.30	10.83	-	2.00
110		100	3.5	8.40	16.73	-	1.50
135		125	4.0	11.80	24.46	-	1.50
160	+2.0 / -2.0	150	4.0	14.10	32.24	-	1.50
210		200	5.0	23.10	54.50	-	1.50
274	+2.5 / -2.5	250	5.5	33.30	87.60	-	1.50
326		300	6.0	43.20	120.60	-	1.50
429	+2.0 / -3.0	400	8.1	77.65	211.49	-	1.50
532	+2.0 / -3.5	500	9.0	107.21	314.71	-	1.50
635	+2.0 / -4.0	600	9.9	140.95	438.20	-	1.50

Norm:

DIN 19522 - 01/2000

Material:

Cast iron according to ISO 185 (EN 587)



This datasheet is to be used as a tool for selecting the correct fixing materials only. Although Walraven does everything possible to ensure the accuracy of all data within this sheet, we cannot be held responsible for information supplied by third parties, i.e. standardisation institutes and pipe manufacturers.

* Maximum recommended fixing distance according to DIN 1988-2 (TRWI). The exact distances depend on the specific pipe-type and -manufacturer!

Information: Copper Pipe / PE-Pipe

Copper pipe				Weight			L (max.)*
D			s	empty	filled	insulated	
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
10.0	-	-	1.0	0.25	0.30	0.45	1.00
12.0	-	10	1.0	0.31	0.39	0.55	1.25
15.0	-	-	1.0	0.39	0.52	0.70	1.25
18.0	-	15	1.0	0.48	0.68	0.87	1.50
22.0	-	20	1.0	0.59	0.90	1.11	2.00
28.0	-	25	1.5	1.11	1.60	2.05	2.25
35.0	-	32	1.5	1.41	2.21	2.70	2.75
42.0	-	40	1.5	1.70	2.89	3.69	3.00
54.0	-	50	2.0	2.91	4.87	6.19	3.50
64.0	-	-	2.0	3.47	6.29	8.19	4.00
76.1	-	65	2.0	4.14	8.22	10.93	4.25
88.9	-	80	2.0	4.86	10.52	14.26	4.75
108.0	-	-	2.5	7.37	15.70	20.98	5.00
133.0	-	-	3.0	10.90	23.57	29.50	5.00
159.0	-	-	3.0	13.09	31.46	38.06	5.00
219.0	-	-	3.0	18.12	53.73	61.87	5.00
267.0	-	-	3.0	22.10	75.60	-	5.00

Norm:

EN 1057 - 05/1996 (ex. DIN 1786)

Material:

Copper according to EN 1412

Insulation:

 mineral wool (density = 80 kg/m³)

PE pipe				Weight			L (max.)*
D			s	empty	filled	insulated	
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
50	-	-	1.8	0.29	1.98	-	1.05
63	-	-	2.0	0.40	3.13	-	1.20
75	-	-	2.3	0.55	4.44	-	1.30
90	-	-	2.8	0.79	6.38	-	1.45
110	-	-	3.4	1.17	9.53	-	1.60
125	-	-	3.9	1.51	12.29	-	1.70
140	-	-	4.3	1.88	15.43	-	1.80
160	-	-	4.9	2.42	19.13	-	1.90
180	-	-	5.5	3.07	25.49	-	2.00
200	-	-	6.2	3.84	31.47	-	2.00
225	-	-	6.9	4.77	39.79	-	2.25
250	-	-	7.7	5.92	49.12	-	2.50
280	-	-	8.6	7.40	61.64	-	2.80
315	-	-	9.7	9.37	77.96	-	3.15

Norm:

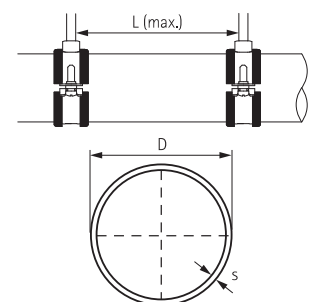
DIN 8074 - 08/1999

Series: 16

SDR: 33

Material:

HD PE



This datasheet is to be used as a tool for selecting the correct fixing materials only. Although Walraven does everything possible to ensure the accuracy of all data within this sheet, we cannot be held responsible for information supplied by third parties, i.e. standardisation institutes and pipe manufacturers.

* Maximum recommended fixing distance according to DIN 1988-2 (TRWI). The exact distances depend on the specific pipe-type and -manufacturer!

Information: PE-pipe / PVC-Pipe

PE pipe				Weight			L
D			s	empty	filled	insulated	(max.)*
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
40	-	-	1.8	0.23	1.27	-	0.95
50	-	-	2.0	0.31	1.98	-	1.05
63	-	-	2.5	0.49	3.13	-	1.20
75	-	-	2.9	0.68	4.43	-	1.30
90	-	-	3.5	0.98	6.39	-	1.45
110	-	-	4.2	1.43	9.53	-	1.60
125	-	-	4.8	1.84	12.29	-	1.70
140	-	-	5.4	2.32	15.42	-	1.80
160	-	-	6.2	3.04	20.14	-	1.90
180	-	-	6.9	3.79	25.47	-	2.00
200	-	-	7.7	4.69	31.44	-	2.00
225	-	-	8.6	5.89	39.79	-	2.25
250	-	-	9.6	7.30	49.12	-	2.50
280	-	-	10.7	9.10	61.60	-	2.80
315	-	-	12.1	11.60	77.98	-	3.00

Norm:

DIN 8074 - 08/1999

Series:

12,5

SDR:

26

Material:

HD PE

PVC pipe				Weight			L
D			s	empty	filled	insulated	(max.)*
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
40	-	-	1.8	0.33	1.37	-	0.90
50	-	-	1.8	0.42	2.11	-	1.10
63	-	-	1.9	0.56	3.31	-	1.20
75	-	-	2.2	0.78	4.69	-	1.35
90	-	-	2.7	1.13	6.75	-	1.50
110	-	-	3.2	1.64	10.07	-	1.70
125	-	-	3.7	2.13	12.99	-	1.80
140	-	-	4.1	2.65	16.29	-	1.95
160	-	-	4.7	3.44	21.24	-	2.10
180	-	-	5.3	4.37	26.90	-	2.20
200	-	-	5.9	5.37	33.17	-	2.30
225	-	-	6.6	6.76	41.97	-	2.40
250	-	-	7.3	8.31	51.81	-	2.50
280	-	-	8.2	10.40	64.95	-	2.80
315	-	-	9.2	13.20	82.26	-	3.00

Norm:

DIN 8062 - 11/1988

Series:

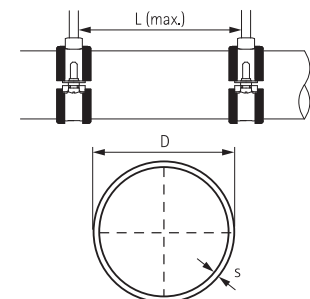
3

SDR:

34,3

Material:

PVC-U (unplasticized)



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* Maximum recommended fixing distance according to DIN 1988-2 (TRWI). The exact distances depend on the specific pipe-type and -manufacturer!

Information: PVC-Pipe

PVC pipe				Weight			L
D			s	empty	filled	insulated	(max.)*
(mm)	(")	(DN)	(mm)	(kg / m)	(kg / m)	(kg / m)	m
25	-	-	1.5	0.17	0.55	-	0.65
32	-	-	1.8	0.26	0.90	-	0.70
40	-	-	1.9	0.35	1.38	-	0.90
50	-	-	2.4	0.55	2.16	-	1.10
63	-	-	3.0	0.85	3.40	-	1.20
75	-	-	3.6	1.22	4.83	-	1.35
90	-	-	4.3	1.75	6.95	-	1.50
110	-	-	5.3	2.61	10.37	-	1.70
125	-	-	6.0	3.34	13.36	-	1.80
140	-	-	6.7	4.18	16.76	-	1.95
160	-	-	7.7	5.47	21.88	-	2.10
180	-	-	8.6	6.88	27.69	-	2.20
200	-	-	9.6	8.51	34.17	-	2.30
225	-	-	10.8	10.80	43.28	-	2.40
250	-	-	11.9	13.20	53.37	-	2.50
280	-	-	13.4	16.60	66.93	-	2.80
315	-	-	15.0	20.90	84.66	-	3.00

Norm:

DIN 8062 - 11/1988

Series:

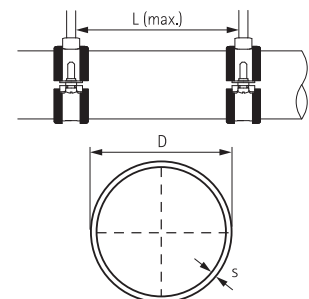
4

SDR:

21

Material:

PVC-U (unplasticized)

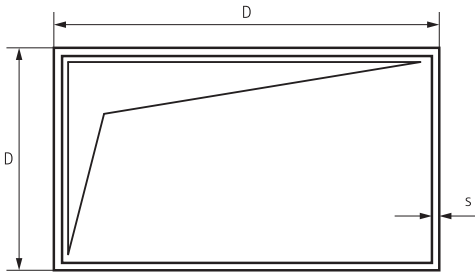


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* Maximum recommended fixing distance according to DIN 1988-2 (TRWI). The exact distances depend on the specific pipe-type and -manufacturer!

Information: Air Ducts (non-insulated)

Declaration of weight in kg/m



D (mm)	s = 0.75 mm			s = 0.88 mm						D (mm)
	200	224	250	280	315	355	400	450	500	
200	6.1	6.5	6.9	8.6	9.2	10.0	10.8	11.7	12.6	200
224	-	6.9	7.3	9.1	9.7	10.4	11.2	12.1	13.0	224
250	-	-	7.7	9.5	10.1	10.9	11.7	12.6	13.5	250
280	-	-	-	10.1	10.7	11.4	12.2	13.1	14.0	280
315	-	-	-	-	11.3	12.0	12.8	13.7	14.6	315
355	-	-	-	-	-	12.8	13.6	14.5	15.4	355
400	-	-	-	-	-	-	14.4	15.3	16.2	400
450	-	-	-	-	-	-	-	16.2	17.1	450
500	-	-	-	-	-	-	-	-	18.0	500

Values for the calculation:

Density air duct: Steel plate $\rho_p = 7,850 \text{ kg/m}^3$

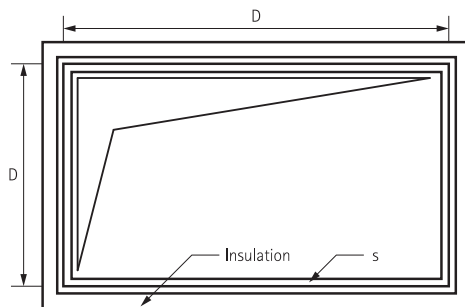
Weights for flanges and duct bracing were estimated.

D (mm)	s = 1.00 mm						s = 1.13 mm						s = 1.5 mm				D (mm)	
	560	630	710	800	900	1,000	1,120	1,250	1,400	1,600	1,800	2,000	2,240	2,500	2,800	3,150		
200	15.5	16.9	18.6	20.4	22.5	24.5	30.4	33.4	36.9	41.5	46.1	50.7	62.3	68.9	76.5	85.5	200	
224	16.0	17.4	19.1	20.9	22.9	25.0	31.0	34.0	37.5	42.1	46.7	51.3	62.9	69.5	77.1	86.1	224	
250	16.5	18.0	19.6	21.4	23.5	25.5	31.6	34.6	38.1	42.7	47.3	51.9	63.5	70.2	77.8	86.7	250	
280	17.1	18.6	20.2	22.0	24.1	26.1	32.3	35.3	38.7	43.4	48.0	52.6	64.3	70.9	78.6	87.5	280	
315	17.9	19.3	20.9	22.8	24.8	26.8	33.1	36.1	39.6	44.2	48.8	53.4	65.2	71.8	79.5	88.4	315	
355	18.7	20.1	21.7	23.6	25.6	27.7	34.0	37.0	40.5	45.1	49.7	54.3	66.2	72.8	80.5	89.4	355	
400	19.6	21.0	22.7	24.5	26.5	28.6	35.1	38.1	41.5	46.1	50.7	55.4	67.4	74.0	81.6	90.6	400	
450	20.6	22.0	23.7	25.5	27.6	29.6	36.2	39.2	42.7	47.3	51.9	56.5	68.6	75.3	82.9	91.8	450	
500	21.6	23.1	24.7	26.5	28.6	30.6	37.4	40.4	43.8	48.4	53.0	57.7	69.9	76.5	84.2	93.1	500	
560	22.9	24.3	25.9	27.8	29.8	31.8	38.7	41.7	45.2	49.8	54.4	59.0	71.4	78.1	85.7	94.7	560	
630	-	25.7	27.3	29.2	31.2	33.3	40.4	43.4	46.8	51.4	56.0	60.7	73.2	79.9	87.5	96.4	630	
710	-	-	29.0	30.8	32.9	34.9	42.2	45.2	48.7	53.3	57.9	62.5	75.3	81.9	89.5	98.5	710	
800	-	-	-	32.7	34.7	36.7	44.3	47.3	50.7	55.4	60.0	64.6	77.6	84.2	91.8	100.8	800	
900	-	-	-	-	36.7	38.8	46.6	49.6	53.0	57.7	62.3	67.3	80.1	86.7	94.4	103.3	900	
1,000	-	-	-	-	-	40.8	48.9	51.9	55.4	60.0	64.6	69.2	82.7	89.3	96.9	105.9	1,000	
1,120	-	-	-	-	-	-	51.7	54.7	58.1	62.7	67.3	72.0	85.7	92.4	100.0	108.9	1,120	
1,250	-	-	-	-	-	-	-	57.7	61.1	65.7	70.3	75.0	89.0	95.7	103.3	112.3	1,250	
1,400	-	-	-	-	-	-	-	-	64.6	69.2	73.8	78.4	92.9	99.5	107.2	116.1	1,400	
1,600	-	-	-	-	-	-	-	-	-	73.8	78.4	83.0	98.0	104.6	112.3	121.2	1,600	
1,800	-	-	-	-	-	-	-	-	-	-	83.0	87.6	103.1	109.7	117.4	126.3	1,800	
2,000	-	-	-	-	-	-	-	-	-	-	-	-	92.3	108.2	114.8	122.5	2,000	
2,240	-	-	-	-	-	-	-	-	-	-	-	-	-	114.3	120.9	128.6	137.5	2,240
2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127.6	135.2	144.1	2,500
2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142.9	151.8	2,800
3,150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160.7	3,150

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Information: Air Ducts (insulated)

Declaration of weight in kg/m



D (mm)	s = 0,75 mm			s = 0,88 mm						D (mm)
	200	224	250	280	315	355	400	450	500	
200	9.2	9.9	10.3	12.2	13.1	14.0	15.1	16.3	17.6	200
224	-	10.4	10.8	12.8	13.6	14.6	15.7	16.9	18.1	224
250	-	-	11.4	13.4	14.3	15.3	16.3	17.6	18.8	250
280	-	-	-	14.2	15.0	16.0	17.1	18.3	19.5	280
315	-	-	-	-	15.9	16.8	17.9	19.1	20.4	315
355	-	-	-	-	-	17.8	18.9	20.1	21.3	355
400	-	-	-	-	-	-	20.0	21.2	22.4	400
450	-	-	-	-	-	-	-	22.4	23.7	450
500	-	-	-	-	-	-	-	-	24.9	500

Values for the calculation:

Density air duct: Steel plate $\rho_p = 7,850 \text{ kg/m}^3$
 Density insulation: Mineral wool = approx. 80 kg/m^3

Weights for flanges and duct bracing were estimated.

D (mm)	s = 1.0 mm						s = 1.13 mm						s = 1.25 mm				D (mm)
	560	630	710	800	900	1,000	1,120	1,250	1,400	1,600	1,800	2,000	2,240	2,500	2,800	3,150	
200	20.9	22.8	24.9	27.3	30.0	32.7	39.4	43.2	47.7	53.5	59.4	65.3	78.4	86.7	96.2	107.4	200
224	21.5	23.4	25.6	28.0	30.6	33.3	40.1	43.9	48.4	54.3	60.1	66.0	79.1	87.4	97.0	108.2	224
250	22.2	24.1	26.2	28.7	31.3	34.0	40.9	44.7	49.1	55.0	60.9	66.8	80.0	88.3	97.8	109.0	250
280	23.0	24.9	27.1	29.5	32.1	34.8	41.8	45.6	50.0	55.9	61.8	67.7	80.9	89.2	98.8	110.0	280
315	24.0	25.8	28.0	30.4	33.1	35.8	42.8	46.6	51.0	56.9	62.8	68.7	82.0	90.3	99.9	111.1	315
355	25.0	26.9	29.1	31.4	34.2	36.8	44.0	47.8	52.2	58.1	64.0	69.9	83.3	91.6	101.2	112.4	355
400	26.2	28.1	30.3	32.7	35.4	38.0	45.3	49.1	53.5	59.4	65.3	71.2	84.8	93.1	102.6	113.8	400
450	27.6	29.5	31.6	34.0	36.7	39.4	46.8	50.6	55.0	60.9	66.8	72.7	86.4	94.7	104.2	115.4	450
500	28.9	30.8	33.0	35.4	38.0	40.7	48.2	52.1	56.5	62.4	68.3	74.2	88.0	96.2	105.8	117.0	500
560	30.5	32.4	34.6	37.0	39.7	42.3	50.0	53.8	58.3	64.2	70.0	75.9	89.9	98.2	107.7	118.9	560
630	-	34.3	36.4	38.9	41.5	44.2	52.1	55.9	60.3	66.2	72.1	78.0	92.1	100.4	110.0	121.1	630
710	-	-	38.6	41.0	43.7	46.4	54.4	58.3	62.7	68.6	74.5	80.4	94.7	103.0	112.5	123.7	710
800	-	-	-	43.4	46.1	48.8	57.1	60.9	65.3	71.2	77.1	83.0	97.5	105.8	115.4	126.6	800
900	-	-	-	-	48.8	51.5	60.0	63.9	68.3	74.2	80.1	86.0	100.7	109.0	118.6	129.8	900
1,000	-	-	-	-	-	54.1	63.0	66.8	71.2	77.1	83.0	88.9	103.9	112.2	121.8	132.9	1,000
1,120	-	-	-	-	-	-	66.5	70.3	74.8	80.7	86.5	92.4	107.7	116.0	125.6	136.8	1,120
1,250	-	-	-	-	-	-	-	74.2	78.6	84.5	90.4	96.3	111.9	120.2	129.8	140.9	1,250
1,400	-	-	-	-	-	-	-	-	83.0	88.9	94.8	100.7	116.7	125.0	134.5	145.7	1,400
1,600	-	-	-	-	-	-	-	-	-	94.8	100.7	106.6	123.1	131.4	140.9	152.1	1,600
1,800	-	-	-	-	-	-	-	-	-	-	106.6	112.5	129.4	137.7	147.3	158.5	1,800
2,000	-	-	-	-	-	-	-	-	-	-	-	118.4	135.8	144.1	153.7	164.9	2,000
2,240	-	-	-	-	-	-	-	-	-	-	-	-	143.5	151.8	161.4	172.5	2,240
2,500	-	-	-	-	-	-	-	-	-	-	-	-	-	160.1	169.6	180.8	2,500
2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	179.2	190.4	2,800
3,150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	201.6	3,150

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Information: Surface Treatment

To improve the corrosion resistance of steel products, Walraven uses all kinds of methods. Here below you will find an overview:

BIS UltraProtect® 1000 system

The BIS UltraProtect® 1000 system is the ideal and most durable solution for securing or supporting mechanical installations, solar systems and many other types of installations.

The products in the BIS UltraProtect® 1000 system have very high corrosion resistance. They effortlessly withstand a salt spray test of at least 1000 hours* (in accordance with ISO 9227). The salt spray test shows that the corrosion resistance of BIS UltraProtect® 1000 products is considerably higher than that of, for example, Hot Dip Galvanized products (approximately 300-600 hours).

Although the system utilises a relatively thin protective coating, the corrosion resistance is high. Not only does the BIS UltraProtect® 1000 system offer a smooth and fine finish, the products are also visually appealing. An additional benefit of the relatively thin protective coating is that threaded products are also well protected against corrosion. The BIS UltraProtect® 1000 products, including threaded items such as bolts, nuts and threaded rods, have superior corrosion resistance and will last at least 20 years**!

Zinc plating

The products to be treated are cleaned, degreased and pickled. The protective coating is then applied in an electrolytic process. The thickness of the layer of zinc is between 1 and 20 µm (0,001 – 0,020 mm) and is determined by the current intensity and the duration of the galvanizing process. After the galvanizing process the products are passivated to extend the protection period.

Pre-galvanized

Also known as Sendzimir galvanization. Pre-galvanizing is a continuous thermal galvanizing process. The strip steel is guided through a bath containing liquid zinc after having been cleaned, degreased and pickled. Later the steel is cut to the required width. The sides of this cut material are not galvanized. This is also the case with any holes that may be drilled in the Pre-galvanized material.

The sides of material thinner than 1,5 mm are protected somewhat by the zinc layer on the top and bottom by the electrolytic process of 'pulling together'.

This method is excellently suited for products with a screw

thread, which are to be used indoors or in a non-corrosive environment.

Hot Dip galvanizing

Also known as 'thermal galvanizing', 'full bath galvanizing' or 'centrifugal galvanizing'. The products to be treated are cleaned, de-greased and pickled and subsequently put into an immersion bath of liquid zinc. The immersion bath has a temperature of 550 °C. In this process an alloy of zinc/iron develops on the surface and is then covered by a layer of pure zinc.

The thickness of the zinc layer varies between 50 and 150 µm (0,050 – 0,150 mm). In consequence the process is less suitable for products with screw thread. Hot Dip galvanized products are suitable for inside as well as outside use and also for damp and light-corrosive environments.

Dacromet

With Dacromet, in an immersion/centrifugal process, steel is provided with a metallic coating based upon zinc and aluminium flakes in a chrome solution and is then dried at a temperature of 321 °C.

Through the immersion process an even layer covers the whole product. This process results in a protective layer of approximately 8 µm.

In contrast to electrolytic and thermal galvanizing, with Dacromet there is no danger of hydrogen embrittlement in materials with an increased carbon content, such as spring steel. As the zinc is embedded with the chromium particles the corrosion process develops very slowly in comparison with a protection layer of pure zinc.

Dacromet retains its corrosion protecting properties at temperatures up to approximately 250 °C. Products protected by Dacromet are suitable for outside use as well as moderate corrosive environments.

* Until the occurrence of maximum 5% red rust

** The warranty conditions can be found on our website www.bis-ultraprotect.com

Information: Surface Treatment (cont.)

Delta-Tone 9000

Delta-Tone 9000 consists of zinc and aluminium particles that are held together by an inorganic binder. This offers an effective protection against corrosion even with a limited layer of thickness.

Delta-Tone 9000 is applied in an immersion/centrifugal or spray process and then dried at a temperature of 200 °C. With this method an even layer is formed over the whole product with a thickness of 10 – 12 µm. Subsequently Delta-Tone 9000 forms a connection with the metal underneath and the surface consists of a layer of inorganic material with zinc and aluminium flakes.

In contrast to electrolytic and thermal galvanizing, with Delta-Tone 9000 there is no danger of hydrogen embrittlement in materials with an increased carbon content, such as spring steel.

To improve the corrosion resistance, the process can be repeated which increases the thickness each time by 10 - 12 µm.

Products protected by Delta-Tone 9000 are suitable for outside use as well as moderate corrosive environments.

Stainless steel 316 (1.4401)

Stainless steel 316 is one of the best corrosion resistant types of stainless steel. It offers a superior corrosion resistance compared to many other types of stainless steel in very many corrosive environments.

The protective layer is damaged by treatments such as punching, rilling and welding. That is why, after the last treatment, all stainless steel products receive an extra treatment which pickles and passivates to repair the protective layer.

Products from stainless steel 316 can be applied in aggressive situations such as a sea climate and industry.

Salt-spray test

To compare the protection duration of various surface treatments, a salt-spray test is carried out according to ISO 9227. In this test products are placed in a space and sprayed with a salt solution. The products will start to corrode. The point at which 'white' and then 'red' rust appears is noted down.

This test does not give a perfect protection duration (this depends on the surroundings in which the product is applied), but does offer a comparative view of the various surface treatments.

Table 1: results of salt-spray test

	Thickness protection layer (µm)	Hours until 5% red rust*
BIS UltraProtect® 1000 system	- **	1.000
Surface treatment		
Zinc plating, blue passivation	8 - 10	72
Zinc plating, yellow passivation	8 - 10	80
Pre-galvanized	25	150
Hot-dip galvanizing	50 - 80	300 - 600
Dacromet	8	600***
Delta-Tone 9000	10 - 12	480
* Until the occurrence of maximum 5% red rust		
** Method and thickness protection layer differ per product		
*** Test stopped		

Information: Material Properties Plastics

ABS – Acrylonitrile–Butadiene–Styrene

Temperature–resistance:

Permanently up to 70 °C, briefly up to 85 °C and to about minus 40 °C*.

Resistant to:

Formic acid, citric acid, lactic acid.

Conditionally resistant to:

Hydrochloric acid, sulphuric acid.

Not resistant to:

Acetone, petrol, benzene, solvents for paints and lacquers, butyric acid, chlorine, acetic acid, nitric acid.

PA – PolyAmide (Nylon)

Temperature–resistance:

Permanently up to about 90 °C, briefly up to about 130 °C and to about minus 40 °C*.

Resistant to:

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Low tendency to stress cracking.

Not resistant to:

Bleach, most acids, chlorine.

PA–GV – Polyamide, fibreglass reinforced

Temperature–resistance:

Permanently up to about 100–110 °C, briefly up to 160 °C and to about minus 40 °C*.

Resistant to:

Petrol, benzene, diesel oil, acetone, solvents for paints and lacquers, oils and greases.

Low tendency to stress cracking.

Not resistant to:

Bleach, most acids, chlorine.

PE – PolyEthylene

Temperature–resistance:

Hard types permanently up to about 90 °C, briefly up to about 105 °C
soft types permanently up to about 80 °C, briefly up to about 100 °C and to about minus 40 °C*.

Resistant to:

Alkalis and inorganic acids.

Conditionally resistant to:

Acetone, organic acids, petrol, benzene, diesel oil, most oils.

Not resistant to:

Chlorine, hydrocarbons, oxidising acids.

POM – PolyOxyMethylene

(polyacetal, polyformaldehyde)

Temperature–resistance:

Permanently up to about 100 °C, briefly up to about 130 °C and to minus 40 °C*.

Resistant to:

Acetone, ether, petrol, weak acetic acid, benzene, heating oil, oils and greases, toluene.

Not resistant to:

Methylene chloride, trichloroethylene, hydrochloric acid, nitric acid, sulphuric acid.

PP – PolyPropylene

Temperature–resistance:

Permanently about 90 °C, briefly up to about 110 °C and to about minus 30 °C*.

Resistance to chemicals generally as for polyethylene.

PS – PolyStyrene

Temperature–resistance:

Because of its relatively high sensitivity to the effects of chemicals, its use is not recommended at temperatures above normal room temperature, about 25 °C.

Resistance to cold: to about minus 40 °C*.

Resistant to:

Alkalis, most acids, alcohol.

Conditionally resistant to:

Oils and greases.

Not resistant to:

Butyric acid, concentrated nitric acid, concentrated acetic acid, acetone, ether, petrol and benzene, solvents for paints and lacquers, chlorine, diesel fuel.

PVC (hard) – PolyVinylChloride (hard)

Temperature–resistance:

Permanently up to about 65 °C, briefly up to about 75 °C and to about minus 30 °C*.

Resistant to:

Weak acids, alkalis, oils and greases, petrol.

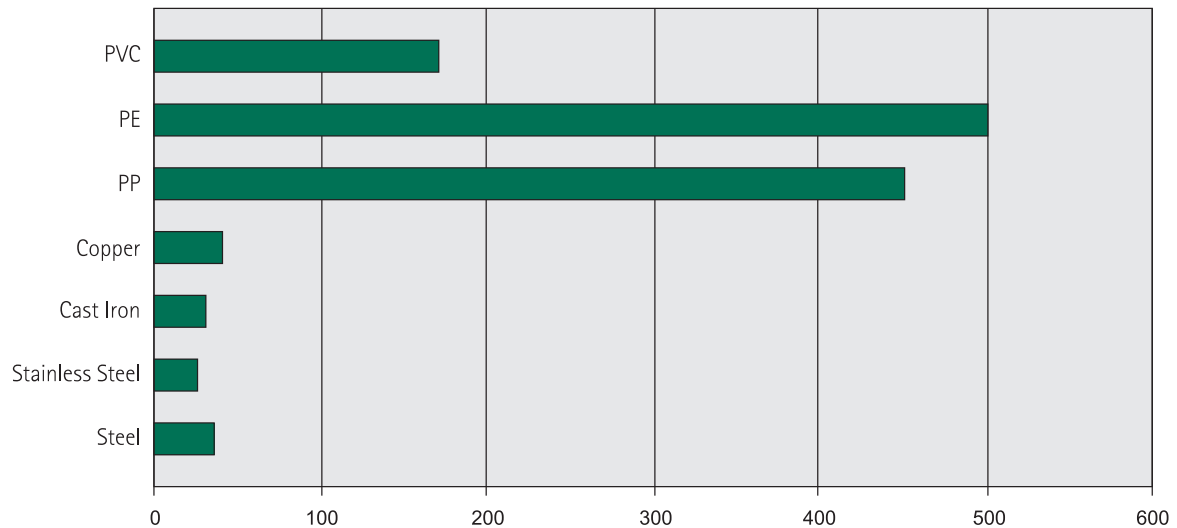
Not resistant to:

Strong acids, benzene, acetone, iodine, toluene, trichloroethylene.

*The minus values apply only for parts in the quiescent condition with no severe impact stress.

Information: Thermal Expansion

Thermal expansion per pipe type (mm)



Pipe length: 50 meter,
Temperature difference: +50 °C

Calculation method:

$$\Delta L = L \times \alpha \times \Delta T$$

ΔL = length change in mm

L = pipe length in meters

α = linear expansion coefficient

ΔT = temperature difference T-max. - T-min.

Pipe material	Expansion (mm/m °C)*
PVC	0.0700
PE	0.2000
PP	0.1800
Copper	0.0170
Cast iron	0.0115
Stainless Steel	0.0100
Steel	0.0120
* indication	

Example 1:

Pipe material: Steel

Pipe length : 20 meter

T-max. = +60 °C

T-min. = +20 °C

Installation temperature : +20 °C

$\Delta T = +60 \text{ °C} - +20 \text{ °C} = 40 \text{ °C}$ (difference minimum/maximum temperature)

$\Delta L = 20 \times 0.012 \times 40 = 9.6 \text{ mm}$ (expansion in mm = $20 \times 40 \times \alpha = 9.6 \text{ mm}$)

Please note: if the installation temperature is higher than T-min. (for example coolant pipes) the pipe will contract a certain length.

Example 2:

Pipe material: Stainless Steel

Pipe length: 50 meter

T-min. = -30 °C

T-max. = +30 °C

Installation temperature: +20 °C

$\Delta T \text{ warm} = +30 \text{ °C} - +20 \text{ °C} = 10 \text{ °C}$

$\Delta T \text{ cold} = +20 \text{ °C} - -30 \text{ °C} = 50 \text{ °C}$

$\Delta T \text{ total} = \Delta T \text{ warm} + \Delta T \text{ cold} = 10 \text{ °C} + 50 \text{ °C} = 60 \text{ °C}$

$\Delta L \text{ warm} = 50 \times 0.01 \times 10 = 5 \text{ mm expansion}$

$\Delta L \text{ cold} = 50 \times 0.01 \times 50 = 25 \text{ mm contraction}$

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Support system for Indoor and Outdoor use

Corrosion resistance
C1 - C4
ISO 12944-2

Salt spray test
1000 hour
ISO 9227

Outdoor
20 year
warranty

For complete overview and more info:

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BIS UltraProtect® 1000: Unique system scope, composition and corrosion resistance



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