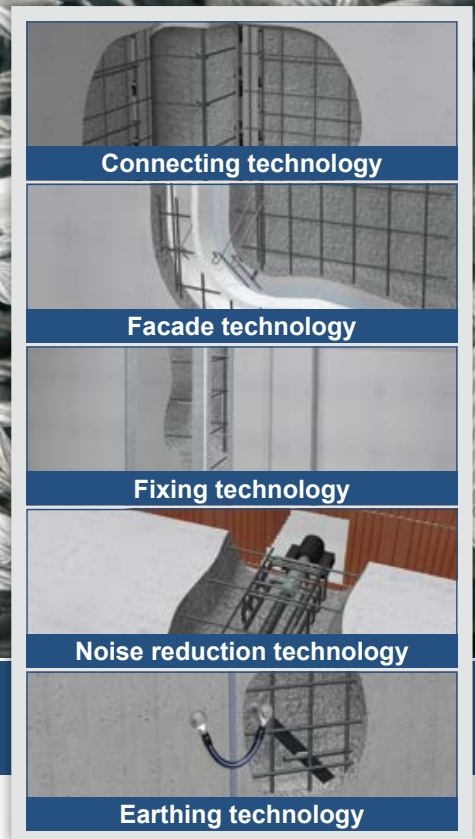


PHILIPPGROUP

Transport and mounting systems for prefabricated units

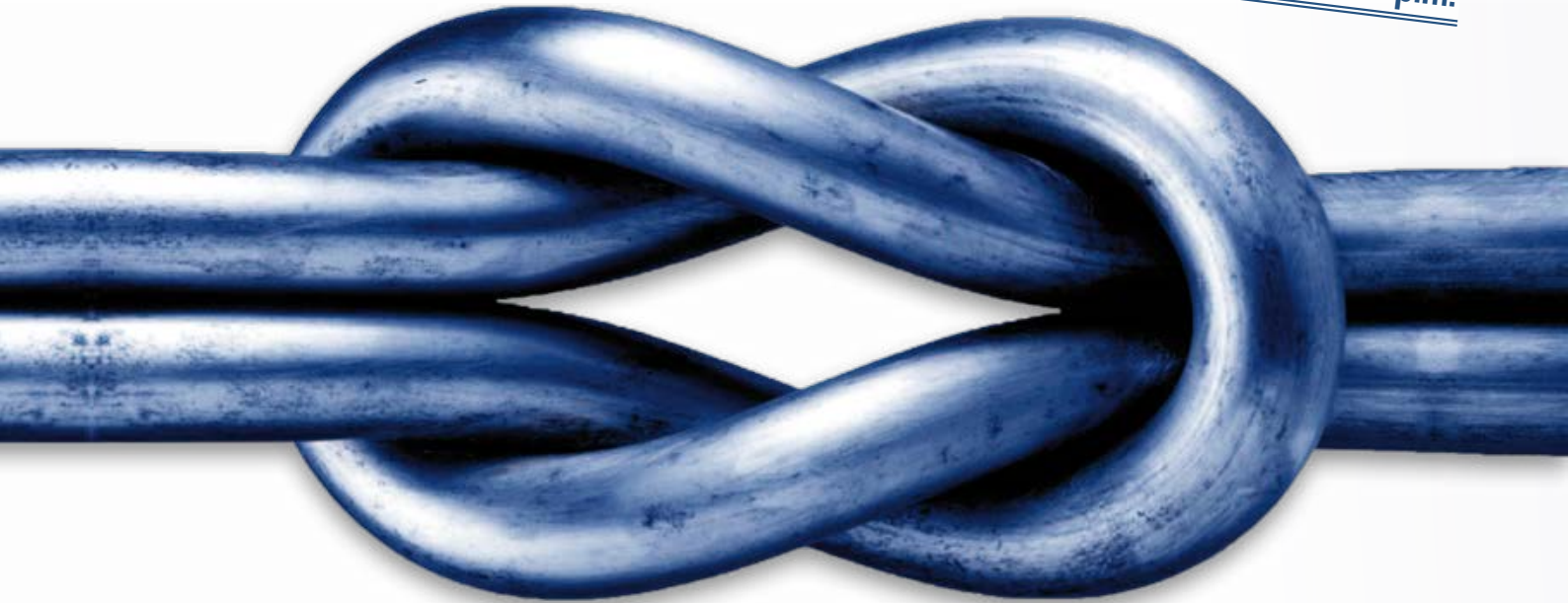


VB3-PU-001.2/2-en - 06/16 - 1/1000



Safety connects

PHILIPP office hours
+49 (0) 06021 / 40 27-300
Mo. - Thurs. 7.00 a.m. - 5.30 p.m.
Fr. 7.00 a.m. - 3.30 p.m.



Order information

Reference number

Please use always our complete reference numbers with your orders and inquiries to ensure a fast and efficient order management.

Special solutions

Special solutions are available on request. Please contact us.

Prices

Our prices are valid ex works.

Minimum order

We are also your partner for small orders. The minimum order is € 100.00.

If an order is less than the minimum order we only charge a handling fee of € 20.00.

Return of goods

Returning goods is only possible after prior consultation. Please note that we charge a processing fee of 25% on the net value of delivered goods. Customized products will not be accepted for return. Customized products will not be accepted for return.

Packing units

Many of our goods are packed in special units. We are selling them in given quantities only.

Cost of packaging

Cost for packaging are invoiced at cost price. Deliveries with euro-pallets or mesh boxes will be invoiced if no exchange takes place.

Raw material surcharge

Currently we do not charge any raw material surcharges. In case of increasing prices for raw material we reserve the right to invoice that charging.

General notes

Catalogues and brochures for transport and mounting systems, hydraulics and pneumatics, wire ropes and lifting and lashing systems are available at www.philipp-group.de

General Terms of Trade

Please refer to the PHILIPP General Terms and Conditions.

Order hotline: +49 (0) 6021/40 27-300

E-mail: export@philipp-group.de

PHILIPP Transport anchor system (Part 1/2)

- Threaded transport anchor system
- Spherical head anchor system
- Hole anchor system
- Cast-in lifting hoops
- Further systems

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 Page 24 – part 1
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 Page 42 – part 1



PHILIPP Connecting technology (Part 2/2)

- Power Duo System | Power Box System
- Thixo mortar | Grout mortar
- Connecting rails | Single connecting loops
- Dowelling system

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 Page 6 – part 2
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 Page 11 – part 2



PHILIPP Facade technology (Part 2/2)

- Sandwich anchor system SPA
- Sandwich anchor system MA/FA
- Sandwich FT-Anchor

Page 12 – part 2
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PHILIPP Fixing technology (Part 2/2)

- Fixing sockets
- Cast-in anchor channels
- Trapezoidal sheet metal channels
- Corner guards

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PHILIPP Noise reduction technology (Part 2/2)

- Noise reduction system

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PHILIPP Earthing technology (Part 2/2)

- Earthing sleeve
- Earthing connectors

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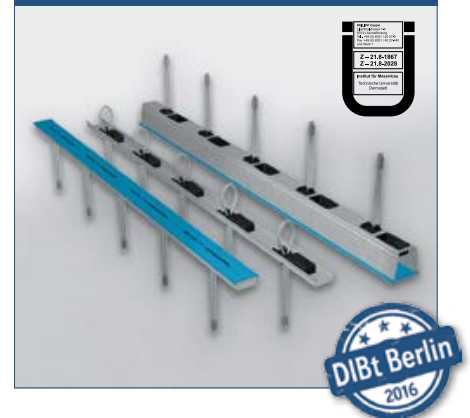


Connecting rail - for high forces

Length	Width	Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[mm]	[mm]	[pcs.]	[kg/pc.]	
1250	50/70	70	90	5	2.00	84PDS700905
1250	50	20	90	5	1.35	84PDS200905

Length	Width	Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[mm]	[mm]	[pcs.]	[kg/100 pcs.]	
220	80	25	120	2	42.00	54PB120

Power Duo rails



Power Box



Mortar can be ordered at

Grace Bauprodukte GmbH

Alte Bottroper Straße 64
45356 Essen, Germany

Phone: +49 (0) 6241/40 403-3002

Fax: +49 (0) 6241/40 403-3003

E-Mail: betec.gcp-DE@grace.com



P&T Technische Mörtel GmbH & Co. KG

Abt. Auftragsbearbeitung
Bataverstraße 84
41462 Neuss, Germany

Tel.: +49 (0) 2131/56 69-0

Fax: +49 (0) 2131/56 69-22

www.eurogrout.de



PHILIPP - BETEC® Mortar



EuroGrout® Mörtel



Connecting rail - constructive

Version: Plastic

Loop length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
80	14.00	100	54VS080
100	15.00	100	54VS100
120	16.00	100	54VS120

Version: Metal

Loop length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
80	18.00	100	54VSM080
100	19.00	100	54VSM100
120	20.00	100	54VSM120

Width of rail: 50/70 mm, rail length 1250 mm

Depth [mm]	Length loops [mm]	Number loops [pcs.]	Weight [kg/pc.]	Ref.-No.
70	100	5	2.00	84VS701005
70	100	3	1.80	84VS701003
70	100	2	1.70	84VS701002

Width of rail: 50 mm, rail length: 1250 mm

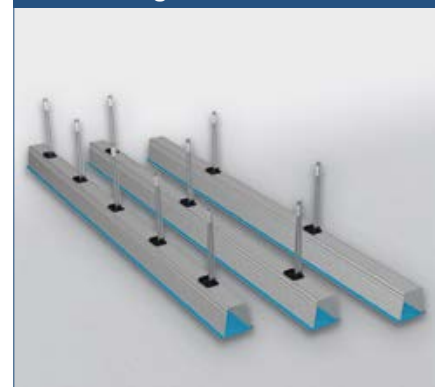
Depth [mm]	Length loops [mm]	Number loops [pcs.]	Weight [kg/pc.]	Ref.-No.
20	80	5	1.10	84VS200805
20	80	3	0.90	84VS200803
20	80	2	0.80	84VS200802
20	100	5	1.10	84VS201005
20	100	3	0.90	84VS201003
20	100	2	0.80	84VS201002
20	120	5	1.10	84VS201205
20	120	3	0.90	84VS201203
20	120	2	0.80	84VS201202
40	80	5	1.20	84VS400805
40	80	3	0.95	84VS400803
40	80	2	0.85	84VS400802
40	100	5	1.20	84VS401005
40	100	3	0.95	84VS401003
40	100	2	0.85	84VS401002
40	120	5	1.20	84VS401205
40	120	3	0.95	84VS401203
40	120	2	0.85	84VS401202

Other rail dimensions - also without loops - on request.

Connecting loops



Connecting rails



Connecting rails



Transport anchor systems

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Earthing technology

Connecting rail - constructive

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Width of rail: 60 mm, rail length: 1250 mm				
Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[pcs.]	[kg/pc.]	
20	80	5	1.20	84VS20080560
20	80	3	1.00	84VS20080360
20	80	2	0.90	84VS20080260
20	100	5	1.20	84VS20100560
20	100	3	1.00	84VS20100360
20	100	2	0.90	84VS20100260
20	120	5	1.20	84VS20120560
20	120	3	1.00	84VS20120360
20	120	2	0.90	84VS20120260
40	80	5	1.30	84VS40080560
40	80	3	1.05	84VS40080360
40	80	2	0.95	84VS40080260
40	100	5	1.30	84VS40100560
40	100	3	1.05	84VS40100360
40	100	2	0.95	84VS40100260
40	120	5	1.30	84VS40120560
40	120	3	1.05	84VS40120360
40	120	2	0.95	84VS40120260

Other rail dimensions - also without loops - on request.



Width of rail: 85 mm, rail length: 1250 mm				
Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[pcs.]	[kg/pc.]	
20	80	5	1.40	84VS20080585
20	80	3	1.20	84VS20080385
20	80	2	1.10	84VS20080285
20	100	5	1.40	84VS20100585
20	100	3	1.20	84VS20100385
20	100	2	1.10	84VS20100285
20	120	5	1.40	84VS20120585
20	120	3	1.20	84VS20120385
20	120	2	1.10	84VS20120285
40	80	5	1.50	84VS40080585
40	80	3	1.30	84VS40080385
40	80	2	1.20	84VS40080285
40	100	5	1.50	84VS40100585
40	100	3	1.30	84VS40100385
40	100	2	1.20	84VS40100285
40	120	5	1.50	84VS40120585
40	120	3	1.30	84VS40120385
40	120	2	1.20	84VS40120285

Other rail dimensions - also without loops - on request.



Connecting rails - light weight concrete

Version: Plastic				
Loop length [mm]	Weight [kg/100 pcs.]	PU [pc.]		Ref.-No.
80	29.00	1		54VS080LB
100	30.00	1		54VS100LB
120	31.00	1		54VS120LB
Version: Metal				
Loop length [mm]	Weight [kg/100 pcs.]	PU [pc.]		Ref.-No.
80	33.00	1		54VSM080LB
100	34.00	1		54VSM100LB
120	35.00	1		54VSM120LB

Width of rail: 50 mm, rail length: 1250 mm				
Depth [mm]	Length loops [mm]	Number loops [pcs.]	Weight [kg/pc.]	Ref.-No.
20	80	5	1.79	84VS200805LB
20	80	3	1.27	84VS200803LB
20	80	2	1.00	84VS200802LB
20	100	5	1.84	84VS201005LB
20	100	3	1.30	84VS201003LB
20	100	2	1.02	84VS201002LB
20	120	5	1.89	84VS201205LB
20	120	3	1.33	84VS201203LB
20	120	2	1.05	84VS201202LB
40	80	5	1.89	84VS400805LB
40	80	3	1.37	84VS400803LB
40	80	2	1.10	84VS400802LB
40	100	5	1.94	84VS401005LB
40	100	3	1.40	84VS401003LB
40	100	2	1.12	84VS401002LB
40	120	5	1.99	84VS401205LB
40	120	3	1.43	84VS401203LB
40	120	2	1.15	84VS401202LB

Other rail dimensions - also without loops - on request.

Connecting loops



Connecting rails



Transport anchor systems

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Earthing technology

Connection rails - light weight concrete

Transport anchor systems

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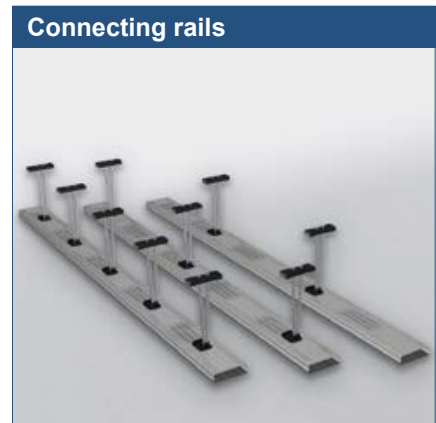
Width of rail: 60 mm, rail length: 1250 mm				
Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[pcs.]	[kg/pc.]	
20	80	5	1.85	84VS20080560LB
20	80	3	1.36	84VS20080360LB
20	80	2	1.10	84VS20080260LB
20	100	5	1.89	84VS20100560LB
20	100	3	1.39	84VS20100360LB
20	100	2	1.12	84VS20100260LB
20	120	5	1.95	84VS20120560LB
20	120	3	1.42	84VS20120360LB
20	120	2	1.14	84VS20120260LB
40	80	5	1.95	84VS40080560LB
40	80	3	1.43	84VS40080360LB
40	80	2	1.17	84VS40080260LB
40	100	5	2.00	84VS40100560LB
40	100	3	1.46	84VS40100360LB
40	100	2	1.19	84VS40100260LB
40	120	5	2.05	84VS40120560LB
40	120	3	1.49	84VS40120360LB
40	120	2	1.21	84VS40120260LB

Other rail dimensions - also without loops - on request.



Width of rail: 85 mm, rail length: 1250 mm				
Depth	Length loops	Number loops	Weight	Ref.-No.
[mm]	[mm]	[pcs.]	[kg/pc.]	
20	80	5	2.04	84VS20080585LB
20	80	3	1.52	84VS20080385LB
20	80	2	1.26	84VS20080285LB
20	100	5	2.09	84VS20100585LB
20	100	3	1.55	84VS20100385LB
20	100	2	1.28	84VS20100285LB
20	120	5	2.14	84VS20120585LB
20	120	3	1.58	84VS20120385LB
20	120	2	1.30	84VS20120285LB
40	80	5	2.45	84VS40080585LB
40	80	3	1.93	84VS40080385LB
40	80	2	1.67	84VS40080285LB
40	100	5	2.49	84VS40100585LB
40	100	3	1.96	84VS40100385LB
40	100	2	1.69	84VS40100285LB
40	120	5	2.55	84VS40120585LB
40	120	3	1.99	84VS40120385LB
40	120	2	1.71	84VS40120285LB

Other rail dimensions - also without loops - on request.



Dowelling system

Version: Plastic

Dimension [mm]	Height [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
Concrete pocket holder				
oval 50 × 80	20	1.38	250	72TH
Concrete pocket				
oval 50 × 80	150	8.28	100	72DT

Concrete pocket



Version: Plastic

Dimension [mm]	Height [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
Rebar pocket holder				
Ø23	30	0.52	1000	72HH
Rebar pocket				
Ø23	180	3.40	350	72DH

Rebar pocket



System consists of one Restraint dowel plate and one fixation (dowel)

Bolt [mm]	Height [mm]	Length [mm]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
Version: bright					
Ø20	150	260	1.00	1	72LDS220
Version: primed					
Ø20	150	260	1.00	1	72LDS220GR
Version: hot-dip galvanised					
Ø20	150	260	1.00	1	72LDS220FV

Restraint dowel plate set



Restraint dowel plate

Bolt [mm]	Height [mm]	Length [mm]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
Version: bright					
Ø20	150	260	1.00	1	72LD220
Version: primed					
Ø20	150	260	1.00	1	72LD220GR
Version: hot-dip galvanised					
Ø20	150	260	1.00	1	72LD220FV

Restraint dowel plate



Transport anchor systems

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Earthing technology

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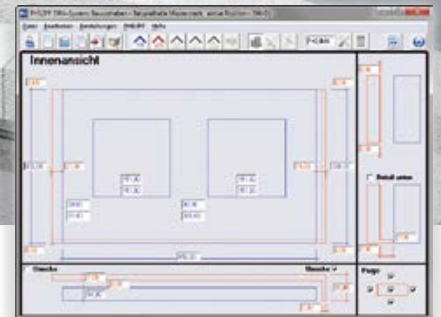
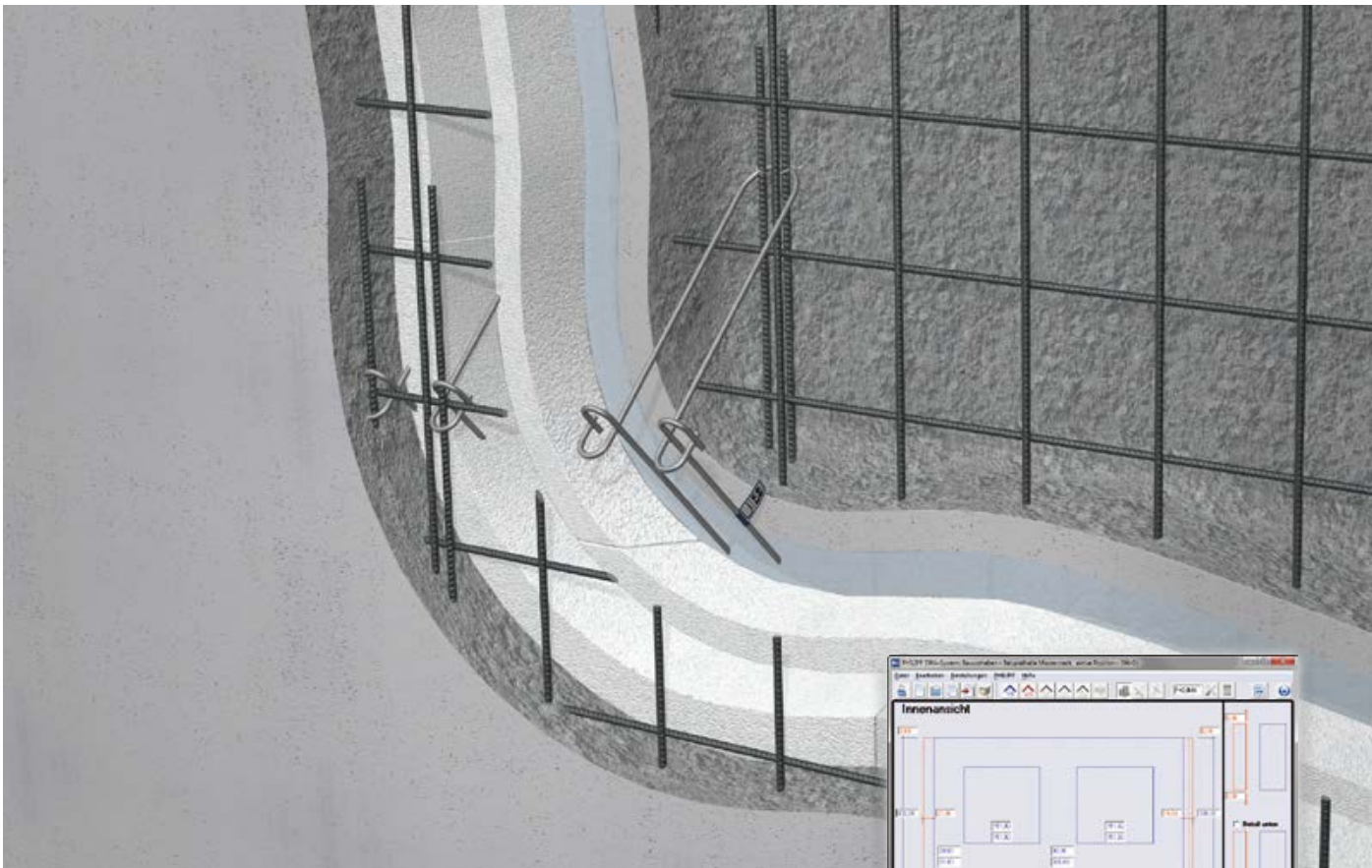
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PHILIPP Facade technology



Our design software you will find at
PH www.philipp-gruppe.de

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Sandwich panel anchor system

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Version: Stainless steel SS316, Type SPA-1				
Diameter [mm]	Anchor height [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
5.0	160	9.50	1	77SPA1050160
5.0	180	11.00	1	77SPA1050180
5.0	200	12.50	1	77SPA1050200
6.5	160	18.00	1	77SPA1070160
6.5	180	20.00	1	77SPA1070180
6.5	200	21.00	1	77SPA1070200
6.5	220	23.00	1	77SPA1070220
6.5	240	24.00	1	77SPA1070240
6.5	260	26.00	1	77SPA1070260
8.0	220	35.00	1	77SPA1080220
8.0	240	37.00	1	77SPA1080240
8.0	260	40.00	1	77SPA1080260
8.0	280	42.00	1	77SPA1080280
8.0	300	44.00	1	77SPA1080300
8.0	320	46.00	1	77SPA1080320
10.0	320	75.00	1	77SPA1100320
10.0	340	79.00	1	77SPA1100340
10.0	360	83.00	1	77SPA1100360

Other dimensions available on request.

Version: Stainless steel SS316, Type SPA-2				
Diameter [mm]	Anchor height [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
5.0	160	18.00	1	77SPA2050160
5.0	180	20.00	1	77SPA2050180
5.0	200	22.00	1	77SPA2050200
6.5	160	31.00	1	77SPA2070160
6.5	180	34.00	1	77SPA2070180
6.5	200	37.00	1	77SPA2070200
6.5	220	40.00	1	77SPA2070220
6.5	240	43.00	1	77SPA2070240
6.5	260	46.00	1	77SPA2070260
8.0	220	61.00	1	77SPA2080220
8.0	240	66.00	1	77SPA2080240
8.0	260	70.00	1	77SPA2080260
8.0	280	75.00	1	77SPA2080280
8.0	300	79.00	1	77SPA2080300
8.0	320	83.00	1	77SPA2080320
10.0	320	133.00	1	77SPA2100320
10.0	340	140.00	1	77SPA2100340
10.0	360	147.00	1	77SPA2100360

Other dimensions available on request.



Sandwich panel anchor system

Version: Stainless steel SS316

Diameter [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
3 (1)	120	1.30	1000	77VN30120
3 (1)	140	1.70	1000	77VN30140
3 (1)	160	1.90	1000	77VN30160
3 (1)	180	2.00	1000	77VN30180
3 (1)	200	2.10	1000	77VN30200
3 (1)	220	2.40	1000	77VN30220
3 (1)	240	2.50	500	77VN30240
4	160	3.50	500	77VN40160
4	180	3.60	500	77VN40180
4	200	4.00	500	77VN40200
4	220	4.30	500	77VN40220
4	240	4.90	400	77VN40240
4	260	5.20	250	77VN40260
4	280	5.50	250	77VN40280
4	300	6.30	250	77VN40300
5	200	6.80	250	77VN50200
5	240	7.60	250	77VN50240
5	260	8.70	250	77VN50260
5	280	9.30	250	77VN50280
5	300	10.00	250	77VN50300
5	320	10.80	250	77VN50320
5	340	11.20	250	77VN50340

(1) Diameter 3 mm is not part of the German approval.

Version: Stainless steel SS316

Diameter [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
4	160	4.60	250	77AN40160
4	180	5.03	250	77AN40180
4	200	5.40	250	77AN40200
4	220	6.10	250	77AN40220
4	250	6.55	250	77AN40250
5	200	8.52	250	77AN50200
5	250	9.14	250	77AN50250
5	280	10.98	250	77AN50280
5	320	12.30	250	77AN50320
5	360	13.51	250	77AN50360

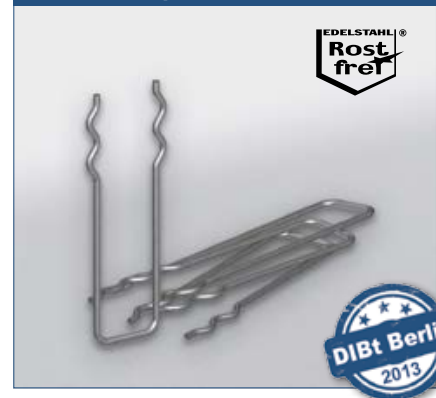
Other dimensions available on request.

Version: Stainless steel SS316

Diameter [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
4	180	4.83	100	77VB40180
4	200	5.23	100	77VB40200
4	220	5.62	100	77VB40220
4	240	5.70	100	77VB40240
5	250	9.80	100	77VB50250

Other dimensions available on request.

Connector pins



Clip-on pins



Connector stirrups



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Noise reduction technology

Earthing technology

Sandwich panel anchor system

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Earthing technology

Version: Stainless steel SS316, material thickness 1.5 mm				
Height [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
150	80	16.00	1	77FA15150080
150	120	24.00	1	77FA15150120
150	160	32.00	1	77FA15150160
150	200	40.00	1	77FA15150200
150	240	48.00	1	77FA15150240
175	80	16.00	1	77FA15175080
175	120	24.00	1	77FA15175120
175	160	31.00	1	77FA15175160
175	200	39.00	1	77FA15175200
175	240	48.00	1	77FA15175240
175	280	55.00	1	77FA15175280
175	320	61.00	1	77FA15175320
200	80	18.00	1	77FA15200080
200	120	27.00	1	77FA15200120
200	160	36.00	1	77FA15200160
200	200	45.00	1	77FA15200200
200	240	54.00	1	77FA15200240
200	280	63.00	1	77FA15200280
200	320	72.00	1	77FA15200320
200	360	79.00	1	77FA15200360
200	400	88.00	1	77FA15200400
225	80	20.00	1	77FA15225080
225	120	30.00	1	77FA15225120
225	160	40.00	1	77FA15225160
225	200	49.00	1	77FA15225200
225	240	59.00	1	77FA15225240
225	280	70.00	1	77FA15225280
225	320	79.00	1	77FA15225320
225	360	93.00	1	77FA15225360
225	400	99.00	1	77FA15225400
260	80	23.00	1	77FA15260080
260	120	35.00	1	77FA15260120
260	160	46.00	1	77FA15260160
260	200	57.00	1	77FA15260200
260	240	68.00	1	77FA15260240
260	280	81.00	1	77FA15260280
260	320	91.00	1	77FA15260320
260	360	107.00	1	77FA15260360
260	400	114.00	1	77FA15260400

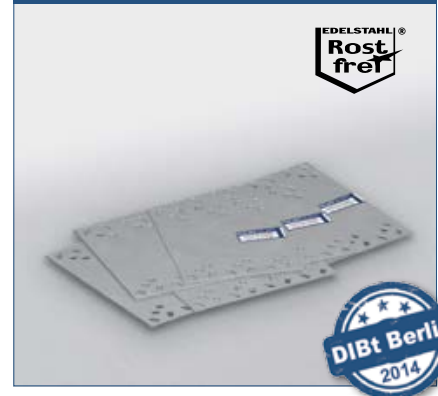
Version: Stainless steel SS316, material thickness 2.0 mm				
Height [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
150	80	16.00	1	77FA20150080
150	120	26.00	1	77FA20150120
150	160	36.00	1	77FA20150160
150	200	44.00	1	77FA20150200
175	80	21.00	1	77FA20175080
175	120	30.00	1	77FA20175120
175	160	41.00	1	77FA20175160
175	200	50.00	1	77FA20175200
175	240	65.00	1	77FA20175240



Sandwich panel anchor system

Version: Stainless steel SS316, material thickness 2.0 mm				
Height [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
175	280	74.00	1	77FA20175280
175	320	82.00	1	77FA20175320
175	360	91.00	1	77FA20175360
175	400	102.00	1	77FA20175400
200	80	24.00	1	77FA20200080
200	120	37.00	1	77FA20200120
200	160	47.00	1	77FA20200160
200	200	61.00	1	77FA20200200
200	240	73.00	1	77FA20200240
200	280	84.00	1	77FA20200280
200	320	97.00	1	77FA20200320
200	360	104.00	1	77FA20200360
200	400	117.00	1	77FA20200400
225	80	27.00	1	77FA20225080
225	120	41.00	1	77FA20225120
225	160	54.00	1	77FA20225160
225	200	67.00	1	77FA20225200
225	240	83.00	1	77FA20225240
225	280	94.00	1	77FA20225280
225	320	106.00	1	77FA20225320
225	360	120.00	1	77FA20225360
225	400	131.00	1	77FA20225400
260	80	32.00	1	77FA20260080
260	120	47.00	1	77FA20260120
260	160	63.00	1	77FA20260160
260	200	80.00	1	77FA20260200
260	240	96.00	1	77FA20260240
260	280	112.00	1	77FA20260280
260	320	129.00	1	77FA20260320
260	360	144.00	1	77FA20260360
260	400	153.00	1	77FA20260400
280	80	35.00	1	77FA20280080
280	120	52.00	1	77FA20280120
280	160	70.00	1	77FA20280160
280	200	87.00	1	77FA20280200
280	240	104.00	1	77FA20280240
280	280	119.50	1	77FA20280280
280	320	137.00	1	77FA20280320
300	80	39.00	1	77FA20300080
300	120	63.00	1	77FA20300120
300	160	83.00	1	77FA20300160
300	200	92.00	1	77FA20300200
300	240	110.00	1	77FA20300240
300	280	129.00	1	77FA20300280
300	320	145.00	1	77FA20300320
300	360	168.00	1	77FA20300360
300	400	240.00	1	77FA20300400

Load bearing anchor FA



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Sandwich panel anchor system

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Version: Stainless steel SS316, material thickness 3.0 mm

Height [mm]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
260	80	49.00	1	77FA30260080
260	120	73.00	1	77FA30260120
260	160	96.00	1	77FA30260160
260	200	122.00	1	77FA30260200
260	240	148.00	1	77FA30260240
260	280	172.00	1	77FA30260280
260	320	195.00	1	77FA30260320
260	360	221.00	1	77FA30260360
260	400	244.00	1	77FA30260400
280	80	49.00	1	77FA30280080
280	120	74.00	1	77FA30280120
280	160	101.00	1	77FA30280160
280	200	124.00	1	77FA30280200
280	240	151.00	1	77FA30280240
280	280	168.00	1	77FA30280280
280	320	210.00	1	77FA30280320
280	360	238.00	1	77FA30280360
280	400	263.00	1	77FA30280400
300	80	57.00	1	77FA30300080
300	120	84.00	1	77FA30300120
300	160	111.00	1	77FA30300160
300	200	141.00	1	77FA30300200
300	240	171.00	1	77FA30300240
300	280	198.00	1	77FA30300280
300	320	225.00	1	77FA30300320
300	360	255.00	1	77FA30300360
300	400	282.00	1	77FA30300400

Version: Stainless steel SS316, material thickness 1.5 mm

Height [mm]	Diameter [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
150	51	26.00	1	77MA15150051
150	76	38.00	1	77MA15150076
150	102	52.00	1	77MA15150102
150	127	64.00	1	77MA15150127
150	153	78.00	1	77MA15150153
150	178	91.00	1	77MA15150178
175	51	31.00	1	77MA15175051
175	76	45.00	1	77MA15175076
175	102	63.00	1	77MA15175102
175	127	77.00	1	77MA15175127
175	153	93.00	1	77MA15175153
175	178	107.00	1	77MA15175178
175	204	124.00	1	77MA15175204
175	229	141.00	1	77MA15175229
175	255	153.00	1	77MA15175255
175	280	162.00	1	77MA15175280

Load bearing anchor FA



Load bearing anchor MA



Sandwich panel anchor system

Version: Stainless steel SS316, material thickness 1.5 mm

Height [mm]	Diameter [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
200	51	35.00	1	77MA15200051
200	76	55.00	1	77MA15200076
200	102	71.00	1	77MA15200102
200	127	90.00	1	77MA15200127
200	153	110.00	1	77MA15200153
200	178	122.00	1	77MA15200178
200	204	145.00	1	77MA15200204
200	229	158.00	1	77MA15200229
200	255	176.00	1	77MA15200255
200	280	197.00	1	77MA15200280
225	51	39.00	1	77MA15225051
225	76	60.00	1	77MA15225076
225	102	80.00	1	77MA15225102
225	127	101.00	1	77MA15225127
225	153	119.00	1	77MA15225153
225	178	139.00	1	77MA15225178
225	204	160.00	1	77MA15225204
225	229	175.00	1	77MA15225229
225	255	197.00	1	77MA15225255
225	280	213.00	1	77MA15225280
260	51	47.00	1	77MA15260051
260	76	69.00	1	77MA15260076
260	102	95.00	1	77MA15260102
260	127	118.00	1	77MA15260127
260	153	140.00	1	77MA15260153
260	178	163.00	1	77MA15260178
260	204	183.00	1	77MA15260204
260	229	213.00	1	77MA15260229
260	255	237.00	1	77MA15260255
260	280	259.00	1	77MA15260280
300	51	54.00	1	77MA15300051
300	76	55.00	1	77MA15300076
300	102	66.00	1	77MA15300102
300	127	84.00	1	77MA15300127
300	153	99.00	1	77MA15300153
300	178	187.50	1	77MA15300178
300	204	212.00	1	77MA15300204
300	229	236.50	1	77MA15300229
300	255	264.00	1	77MA15300255
300	280	293.00	1	77MA15300280

Version: Plastic

Width [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
60	8.00	100	77FTA60
80	8.00	100	77FTA80

Load bearing anchor MA



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

FT Anchor



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

PHILIPP Fixing technology



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Earthing technology

Fixing sockets

Transport anchor systems

Connection technology

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Earthing technology

Version: bright zinc plated					
Loadgroup	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
80	6	30	0.70	3000	6803206030
150	6	50	1.00	1500	6803206050
200	8	40	1.10	1000	6803208040
250	8	50	1.50	1000	6803208050
350	10	50	1.90	500	6803210050
400	10	60	2.70	500	6803210060
400	12	50	3.60	500	6803212050
600	12	70	5.10	300	6803212070
650	16	60	6.60	250	6803216060
700	16	70	8.00	250	6803216070
800	16	80	10.70	200	6803216080
1000	16	100	11.40	100	6803216100
1250	20	100	17.30	100	6803220100
1600	24	100	22.50	50	6803224100

Other dimensions available on request

Version: Stainless steel SS316					
Load group	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
120	6	35	0.67	1000	6803406035VA
200	8	40	1.10	1000	6803408040VA
250	8	50	1.50	1000	6803408050VA
350	10	50	1.90	500	6803410050VA
500	12	60	4.60	500	6803412060VA
600	12	70	5.10	300	6803412070VA
700	16	70	8.00	250	6803416070VA
800	16	80	9.70	200	6803416080VA
1000	16	100	12.10	100	6803416100VA
1250	20	100	18.30	100	6803420100VA
1800	24	120	33.00	50	6803424120VA

Other dimensions and types available on request, alternatively also in SS304

Version: bright zinc plated					
Load group	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
230	8	45	1.90	500	6805208045
250	8	50	2.00	500	6805208050
290	10	40	2.00	500	6805210040
400	10	60	3.50	500	6805210060
350	12	45	4.60	400	6805212045
600	12	70	6.60	250	6805212070
600	16	60	9.76	150	6805216060
1000	16	100	13.80	100	6805216100
1000	20	70	16.30	100	6805220070
1250	20	100	22.30	50	6805220100
1400	24	80	32.40	50	6805224080

Other dimensions available on request



Fixing sockets

Version: bright zinc plated					
Load group	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
120	6	35	0.50	3000	6801206035
150	6	40	0.73	3000	6801206040
200	8	40	1.00	1500	6801208040
250	8	50	1.30	1000	6801208050
300	10	40	1.20	1000	6801210040
350	10	50	2.00	1000	6801210050
500	12	60	3.90	500	6801212060
600	12	70	4.60	400	6801212070
700	16	70	7.00	250	6801216070
800	16	80	7.90	250	6801216080
1000	16	100	10.40	100	6801216100
1200	16	120	12.80	100	6801216120
1250	20	100	19.00	100	6801220100
1400	20	120	19.20	100	6801220120
1800	24	120	23.40	50	6801224120
2750	30	150	63.90	25	6801230150

Other dimensions on request

Version: Stainless steel SS316					
Load group	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
150	6	40	0.50	3000	6801406040VA
200	8	40	1.00	1500	6801408040VA
250	8	50	1.40	1000	6801408050VA
350	10	50	1.70	1000	6801410050VA
500	12	60	3.90	500	6801412060VA
600	12	70	4.60	400	6801412070VA
700	16	70	7.20	250	6801416070VA
800	16	80	8.60	250	6801416080VA
1000	16	100	10.60	100	6801416100VA
1200	16	120	12.80	100	6801416120VA
1250	20	100	15.70	100	6801420100VA
1400	20	120	19.20	100	6801420120VA
1800	24	120	33.00	50	6801424120VA
2750	30	150	63.90	25	6801430150VA

Other dimensions and types available on request, alternatively also in SS304

Version: bright zinc plated					
Load group	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pc.]	
500	12	60	7.10	250	6807212060
800	16	80	12.80	100	6807216080
1000	16	100	15.00	100	6807216100
1250	20	95	22.10	50	6807220095
1400	20	115	29.20	50	6807220115
1800	24	120	46.10	50	6807224120

Other dimensions available on request

Fixing sockets

with cross hole



Fixing sockets

with cross hole



Fixing sockets

with cross pin



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Fixing socket with nailing plate

Transport anchor systems

Version: bright zinc plated					
Loadgroup	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
400	10	60	3.00	300	6804210060
600	12	70	6.00	250	6804212070
1000	16	100	12.70	100	6804216100
1250	20	100	18.40	50	6804220100
1600	24	100	28.60	50	6804224100

Other dimensions available on request

Connection technology

Version: bright zinc plated					
Loadgroup	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
400	10	60	3.50	250	6806210060
600	12	70	6.90	200	6806212070
1000	16	100	16.00	100	6806216100
1250	20	100	20.70	50	6806220100

Other dimensions available on request

Facade technology

Version: bright zinc plated					
Loadgroup	Thread	Length	Weight	PU	Ref.-No.
[kg]	[M]	[mm]	[kg/100 pcs.]	[pcs.]	
250	8	50	1.40	400	6802208050
350	10	50	2.10	500	6802210050
600	12	70	5.50	200	6802212070
1000	16	100	11.40	100	6802216100
1250	20	100	19.00	50	6802220100

Other dimensions available on request

Fixing technology

Noise reduction technology

Earthing technology

Fixing sockets

with waved end and nailing plate



Fixing sockets

with waved end and nailing plate



Fixing sockets

with cross hole and nailing plate



Fixing sockets for push-pull props

Version: bright zinc plated

Thread [M]	Length [mm]	Weight [kg/100 pcs.]	PU [pcs.]	Ref.-No.
16	45	4.70	400	6803216045

Version: bright zinc plated

Thread [M]	Length [mm]	Plate [mm]	Weight [kg/pc.]	PU [pcs.]	Ref.-No.
12	75	80 x 60 x 5	0.27	100	6803212070LB
16	85	80 x 60 x 5	0.29	100	6803216080LB

Fixing sockets for push-pull props

for double walls



Fixing sockets for push-pull props

for light weight concrete



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Cast-in anchor channels - cold formed with studs

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Version: BPA 28/15 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
100	69	2	82AS2815K0100FV
150	69	2	82AS2815K0150FV
200	69	2	82AS2815K0200FV
250	69	2	82AS2815K0250FV
300	69	2	82AS2815K0300FV
350	69	3	82AS2815K0350FV
400	69	3	82AS2815K0400FV
550	69	3	82AS2815K0550FV
1050	69	5	82AS2815K1050FV
3050	69	13	82AS2815K3050FV
6070	69	25	82AS2815K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Version: BPA 38/17 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
100	71	2	82AS3817K0100FV
150	71	2	82AS3817K0150FV
200	71	2	82AS3817K0200FV
250	71	2	82AS3817K0250FV
300	71	2	82AS3817K0300FV
350	71	3	82AS3817K0350FV
400	71	3	82AS3817K0400FV
550	71	3	82AS3817K0550FV
1050	71	5	82AS3817K1050FV
3050	71	13	82AS3817K3050FV
6070	71	25	82AS3817K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Version: BPA 40/25 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	79	2	82AS4025K0150FV
200	79	2	82AS4025K0200FV
250	79	2	82AS4025K0250FV
300	79	2	82AS4025K0300FV
350	79	3	82AS4025K0350FV
400	79	3	82AS4025K0400FV
550	79	3	82AS4025K0550FV
1050	79	5	82AS4025K1050FV
3050	79	13	82AS4025K3050FV
6070	79	25	82AS4025K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Cast-in anchor channels - cold-formed with studs

Version: BPA 28/15 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
100	69	2	82AS2815K0100VA
150	69	2	82AS2815K0150VA
200	69	2	82AS2815K0200VA
250	69	2	82AS2815K0250VA
300	69	2	82AS2815K0300VA
350	69	3	82AS2815K0350VA
400	69	3	82AS2815K0400VA
550	69	3	82AS2815K0550VA
1050	69	5	82AS2815K1050VA
3050	69	13	82AS2815K3050VA
6070	69	25	82AS2815K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Version: BPA 38/17 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
100	71	2	82AS3817K0100VA
150	71	2	82AS3817K0150VA
200	71	2	82AS3817K0200VA
250	71	2	82AS3817K0250VA
300	71	2	82AS3817K0300VA
350	71	3	82AS3817K0350VA
400	71	3	82AS3817K0400VA
550	71	3	82AS3817K0550VA
1050	71	5	82AS3817K1050VA
3050	71	13	82AS3817K3050VA
6070	71	25	82AS3817K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Version: BPA 40/25 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	79	2	82AS4025K0150VA
200	79	2	82AS4025K0200VA
250	79	2	82AS4025K0250VA
300	79	2	82AS4025K0300VA
350	79	3	82AS4025K0350VA
400	79	3	82AS4025K0400VA
550	79	3	82AS4025K0550VA
1050	79	5	82AS4025K1050VA
3050	79	13	82AS4025K3050VA
6070	79	25	82AS4025K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Cast-in anchor channel



Cast-in anchor channel



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Cast-in anchor channels - cold-formed with studs

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Version: BPA 49/30 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	84	2	82AS4930K0150FV
200	84	2	82AS4930K0200FV
250	84	2	82AS4930K0250FV
300	84	2	82AS4930K0300FV
350	84	3	82AS4930K0350FV
400	84	3	82AS4930K0400FV
550	84	3	82AS4930K0550FV
1050	84	5	82AS4930K1050FV
3050	84	13	82AS4930K3050FV
6070	84	25	82AS4930K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Version: BPA 54/33 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	149	2	82AS5433K0150FV
200	149	2	82AS5433K0200FV
250	149	2	82AS5433K0250FV
300	149	2	82AS5433K0300FV
350	149	3	82AS5433K0350FV
400	149	3	82AS5433K0400FV
550	149	3	82AS5433K0550FV
1050	149	5	82AS5433K1050FV
3050	149	13	82AS5433K3050FV
6070	149	25	82AS5433K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Version: BPA 72/49 cold-formed with studs, hot-dip galvanised

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	164	2	82AS7249K0150FV
200	164	2	82AS7249K0200FV
250	164	2	82AS7249K0250FV
300	164	2	82AS7249K0300FV
350	164	3	82AS7249K0350FV
400	164	3	82AS7249K0400FV
550	164	3	82AS7249K0550FV
1050	164	5	82AS7249K1050FV
3050	164	13	82AS7249K3050FV
6070	164	25	82AS7249K6070FV

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Cast-in anchor channels - cold-formed with studs

Version: BPA 49/30 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	84	2	82AS4930K0150VA
200	84	2	82AS4930K0200VA
250	84	2	82AS4930K0250VA
300	84	2	82AS4930K0300VA
350	84	3	82AS4930K0350VA
400	84	3	82AS4930K0400VA
550	84	3	82AS4930K0550VA
1050	84	5	82AS4930K1050VA
3050	84	13	82AS4930K3050VA
6070	84	25	82AS4930K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Version: BPA 54/33 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	149	2	82AS5433K0150VA
200	149	2	82AS5433K0200VA
250	149	2	82AS5433K0250VA
300	149	2	82AS5433K0300VA
350	149	3	82AS5433K0350VA
400	149	3	82AS5433K0400VA
550	149	3	82AS5433K0550VA
1050	149	5	82AS5433K1050VA
3050	149	13	82AS5433K3050VA
6070	149	25	82AS5433K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Version: BPA 72/49 cold-formed with studs, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	164	2	82AS7249K0150VA
200	164	2	82AS7249K0200VA
250	164	2	82AS7249K0250VA
300	164	2	82AS7249K0300VA
350	164	3	82AS7249K0350VA
400	164	3	82AS7249K0400VA
550	164	3	82AS7249K0550VA
1050	164	5	82AS7249K1050VA
3050	164	13	82AS7249K3050VA
6070	164	25	82AS7249K6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Cast-in anchor channel



Cast-in anchor channel



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Cast-in anchor channels, hot-rolled with I-anchors

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Version: BPA 40/22 hot-rolled with I-anchors, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	76	2	82AS4022I0150FV
200	76	2	82AS4022I0200FV
250	76	2	82AS4022I0250FV
300	76	2	82AS4022I0300FV
350	76	3	82AS4022I0350FV
400	76	3	82AS4022I0400FV
550	76	3	82AS4022I0550FV
800	76	4	82AS4022I0800FV
1050	76	5	82AS4022I1050FV
1300	76	6	82AS4022I1300FV
1550	76	7	82AS4022I1550FV
1800	76	8	82AS4022I1800FV
2050	76	9	82AS4022I2050FV
2300	76	10	82AS4022I2300FV
2550	76	11	82AS4022I2550FV
3050	76	13	82AS4022I3050FV
6070	76	25	82AS4022I6070FV

German approval for dynamic forces No. Z-21.4-1890.
Special length available on request.

Version: BPA 50/30 hot-rolled with I-anchors, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	84	2	82AS5030I0150FV
200	84	2	82AS5030I0200FV
250	84	2	82AS5030I0250FV
300	84	2	82AS5030I0300FV
350	84	3	82AS5030I0350FV
400	84	3	82AS5030I0400FV
550	84	3	82AS5030I0550FV
800	84	4	82AS5030I0800FV
1050	84	5	82AS5030I1050FV
3050	84	13	82AS5030I3050FV
6070	84	25	82AS5030I6070FV

German approval for dynamic forces No. Z-21.4-1890.
Special length available on request.

Version: BPA 52/34 hot-rolled with I-anchors, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	149	2	82AS5234I0150FV
200	149	2	82AS5234I0200FV
250	149	2	82AS5234I0250FV
300	149	2	82AS5234I0300FV
350	149	3	82AS5234I0350FV
400	149	3	82AS5234I0400FV
550	149	3	82AS5234I0550FV
1050	149	5	82AS5234I1050FV
3050	149	13	82AS5234I3050FV
6070	149	25	82AS5234I6070FV

German approval No. Z-21.4-1890.
Special length available on request.



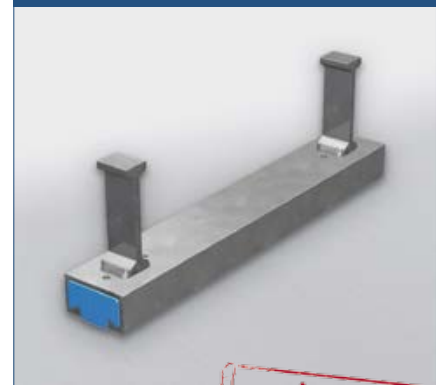
Cast-in anchor channels, hot-rolled with I-anchors

Version: BPA 40/22 hot-rolled with I-anchors, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pc.]	Ref.-No.
150	76	2	82AS4022I0150VA
200	76	2	82AS4022I0200VA
250	76	2	82AS4022I0250VA
300	76	2	82AS4022I0300VA
350	76	3	82AS4022I0350VA
400	76	3	82AS4022I0400VA
550	76	3	82AS4022I0550VA
1050	76	5	82AS4022I1050VA
3050	76	13	82AS4022I3050VA
6070	76	25	82AS4022I6070VA

German approval for dynamic forces No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Approval
for dynamic load

Version: BPA 50/30 hot-rolled with I-anchors, SS316

Length [mm]	Anchoring depth [mm]	No. of studs [pc.]	Ref.-No.
150	84	2	82AS5030I0150VA
200	84	2	82AS5030I0200VA
250	84	2	82AS5030I0250VA
300	84	2	82AS5030I0300VA
350	84	3	82AS5030I0350VA
400	84	3	82AS5030I0400VA
550	84	3	82AS5030I0550VA
1050	84	5	82AS5030I1050VA
3050	84	13	82AS5030I3050VA
6070	84	25	82AS5030I6070VA

German approval No. Z-21.4-1890.
Special length available on request.

Cast-in anchor channel



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Cast-in anchor channels **ECORAIL™** - cold-formed with studs / accessories

Transport anchor systems

ECORAIL™ 28/15 cold-formed, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	40	2	82ECO2815K0150FV
200	40	2	82ECO2815K0200FV
300	40	2	82ECO2815K0300FV
350	40	3	82ECO2815K0350FV
550	40	3	82ECO2815K0550FV
3050	40	13	82ECO2815K3050FV

Cast-in anchor channel



Connection technology

ECORAIL™ 38/17 cold-formed, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	42	2	82ECO3817K0150FV
200	42	2	82ECO3817K0200FV
300	42	2	82ECO3817K0300FV
350	42	3	82ECO3817K0350FV
550	42	3	82ECO3817K0550FV
3050	42	13	82ECO3817K3050FV

Cast-in anchor channel



Facade technology

ECORAIL™ 40/25 cold-formed, hot-dip galvanised			
Length [mm]	Anchoring depth [mm]	No. of studs [pcs.]	Ref.-No.
150	50	2	82ECO4025K0150FV
200	50	2	82ECO4025K0200FV
300	50	2	82ECO4025K0300FV
350	50	3	82ECO4025K0350FV
550	50	3	82ECO4025K0550FV
3050	50	13	82ECO4025K3050FV

Cast-in anchor channel



Fixing technology

Noise reduction technology

Further accessories (bolts, shear plates etc.) available on request.



Earthing technology

Trapezoidal cast-in channel

Version: BPU Type A (with anchor-loop), hot-dip galvanised

Length [mm]	No. of studs [pcs.]	Ref.-No.
3000	8	82TS3A300008
3000	20	82TS3A300020

German approval No. Z-21.4-1891.

Version: BPU Type B (with single-anchor), hot-dip galvanised

Length [mm]	No. of studs [pcs.]	Ref.-No.
3000	16	82TS3B300016
3000	40	82TS3B300040

German approval No. Z-21.4-1891.

Version: BPU Type C (with strand-loop), hot-dip galvanised

Length [mm]	No. of studs [pcs.]	Ref.-No.
3000	8	82TS3C300008
3000	20	82TS3C300020

German approval No. Z-21.4-1891.

Trapezoidal cast-in channel



Trapezoidal cast-in channel



Trapezoidal cast-in channel



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Corner guard

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

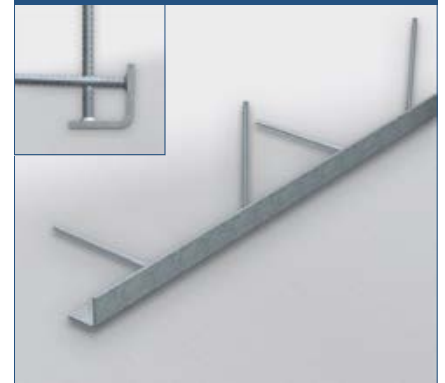
Earthing technology

Version: 1A hot-dip galvanised					
Angle [mm]	Length [mm]	Anchor [pc.]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
50x5	1000	4	3.85	1	82KSW1A0501000FV
50x5	1500	6	5.78	1	82KSW1A0501500FV
50x5	2000	8	7.70	1	82KSW1A0502000FV
60x6	1000	4	5.51	1	82KSW1A0601000FV
60x6	1500	6	8.26	1	82KSW1A0601500FV
60x6	2000	8	11.01	1	82KSW1A0602000FV
80x8	1000	4	7.39	1	82KSW1A0801000FV
80x8	1500	6	11.09	1	82KSW1A0801500FV
80x8	2000	8	14.78	1	82KSW1A0802000FV
100x8	1000	4	12.28	1	82KSW1A1001000FV
100x8	1500	6	18.42	1	82KSW1A1001500FV
100x8	2000	8	24.56	1	82KSW1A1002000FV

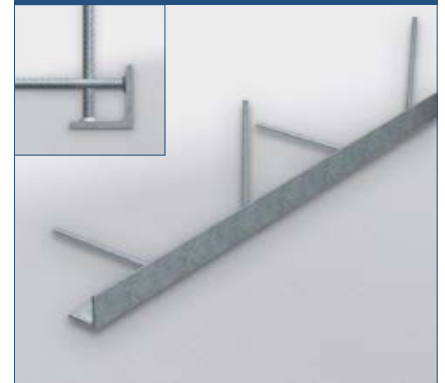
Version: 2A hot-dip galvanised					
Angle [mm]	Length [mm]	Anchor [pc.]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
50x5	1000	4	4.07	1	82KSW2A0501000FV
50x5	1500	6	6.11	1	82KSW2A0501500FV
50x5	2000	8	8.14	1	82KSW2A0502000FV
60x6	1000	4	5.72	1	82KSW2A0601000FV
60x6	1500	6	8.58	1	82KSW2A0601500FV
60x6	2000	8	11.44	1	82KSW2A0602000FV
80x8	1000	4	9.93	1	82KSW2A0801000FV
80x8	1500	6	14.90	1	82KSW2A0801500FV
80x8	2000	8	19.86	1	82KSW2A0802000FV
100x8	1000	4	12.50	1	82KSW2A1001000FV
100x8	1500	6	18.75	1	82KSW2A1001500FV
100x8	2000	8	25.00	1	82KSW2A1002000FV

Version: 3A hot-dip galvanised					
Angle [mm]	Length [mm]	Anchor [pc.]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
53x5	1000	4	3.85	1	82KSW3A0501000FV
53x5	1500	6	5.78	1	82KSW3A0501500FV
53x5	2000	8	7.70	1	82KSW3A0502000FV
64x6	1000	4	5.51	1	82KSW3A0601000FV
64x6	1500	6	8.26	1	82KSW3A0601500FV
64x6	2000	8	11.01	1	82KSW3A0602000FV
84x8	1000	4	7.39	1	82KSW3A0801000FV
84x8	1500	6	11.09	1	82KSW3A0801500FV
84x8	2000	8	14.78	1	82KSW3A0802000FV
110x8	1000	4	12.28	1	82KSW3A1001000FV
110x8	1500	6	18.42	1	82KSW3A1001500FV
110x8	2000	8	24.56	1	82KSW3A1002000FV

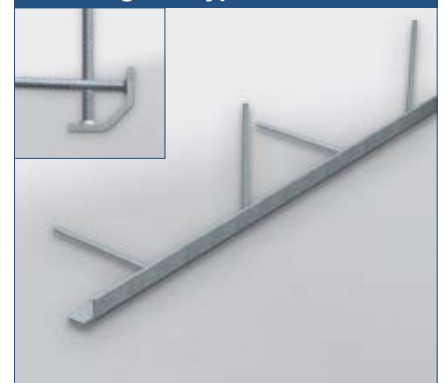
Corner guard type 1A



Corner guard type 2A



Corner guard type 3A



Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Transport anchor systems

Connection technology

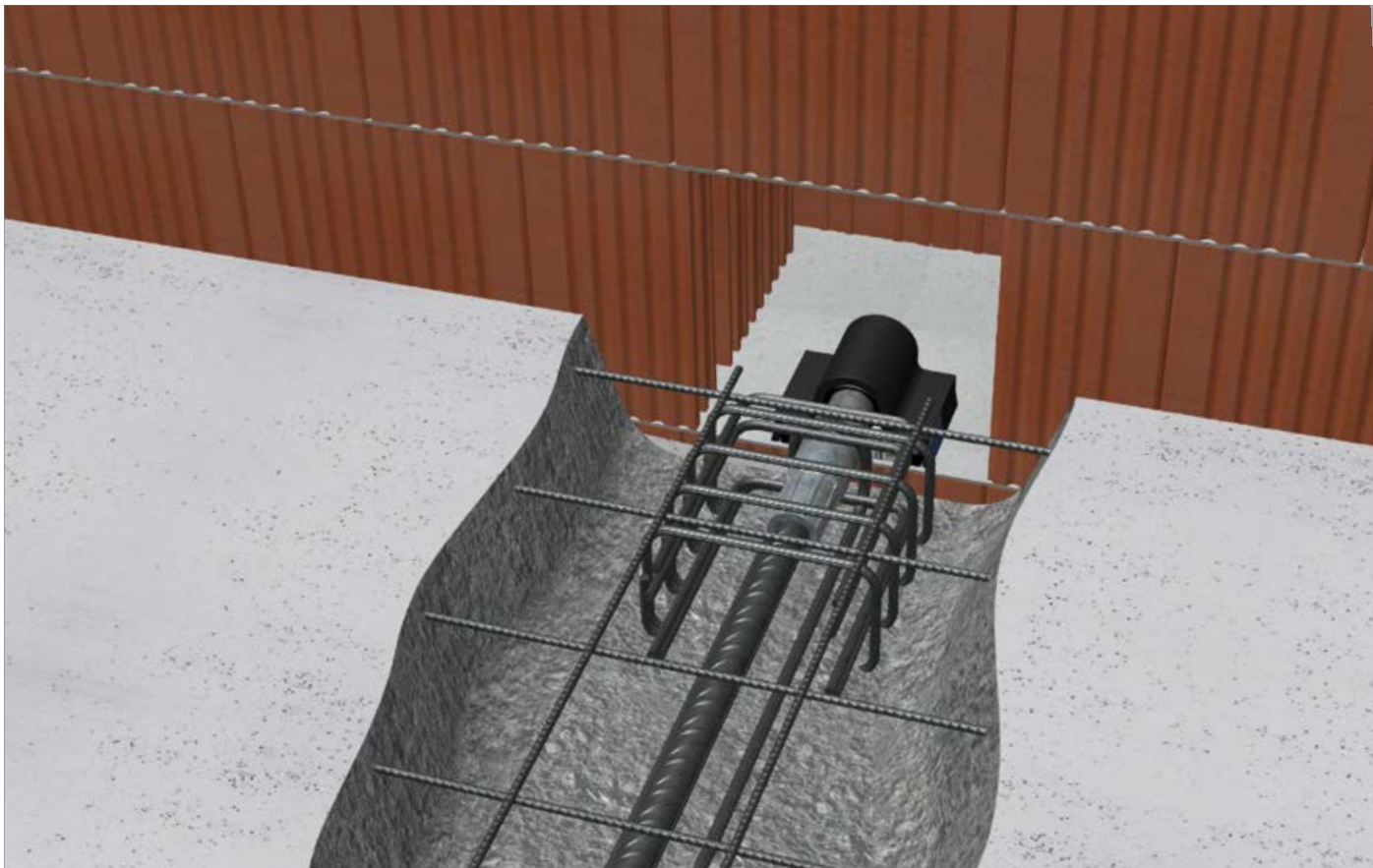
Facade technology

Fixing technology

Noise reduction technology

Earthing technology

PHILIPP Noise reduction technology



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Transport anchor systems

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Noise reduction technology

Earthing technology

Noise reduction system



According to the LGA (State Trade Institute) certified structural calculation the noise reduction system is conform to EC2, EC3 and EC6.

Transport anchor systems

Connection technology

Facade technology

Fixing technology

Noise reduction technology

Earthing technology

Consisting of: Elastomeric bearing, threaded bolt (S355) and threaded transport anchor RD36 short wavy tail

Type [M/RD]	Bolt length [mm]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
Version: galvanised				
M36	160	4.14	1	67TSSN160STSYS
M36	180	4.30	1	67TSSN180STSYS
M36	190	4.38	1	67TSSN190STSYS
M36	200	4.46	1	67TSSN200STSYS
M36	210	4.54	1	67TSSN210STSYS
M36	220	4.62	1	67TSSN220STSYS

Version in tempered steel or stainless steel available on request

Noise reduction system



Type [M/RD]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
Version: galvanised			
M36	1.08	1	67TSEN

Version in stainless steel available on request

Elastomeric bearing



Type [M/RD]	Bolt length [mm]	Weight [kg/pc.]	PU [pc.]	Ref.-No.
Version: bright zinc plated				
S355				
M36	160	1.20	1	670TSSN160ST
M36	180	1.36	1	670TSSN180ST
M36	190	1.44	1	670TSSN190ST
M36	200	1.52	1	670TSSN200ST
M36	210	1.60	1	670TSSN210ST
M36	220	1.68	1	670TSSN220ST
Tempered steel				
M36	160	1.20	1	670TSSN1608
M36	180	1.36	1	670TSSN1808
M36	190	1.44	1	670TSSN1908
M36	200	1.52	1	670TSSN2008
M36	210	1.60	1	670TSSN2108
M36	220	1.68	1	670TSSN2208

Version in tempered steel and stainless steel available on request

Threaded bolt



Noise reduction system

Version: Insert bright zinc plated

Type [RD]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
36	235	130.00	1	67K360235
36	334	184.00	1	67K360334
36	450	227.00	1	67K360450

Version: Insert bright zinc plated

Type [RD]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
36	380	186.00	1	67M63K
36	570	260.00	1	67M36WE

Version: Insert bright zinc plated

Type [RD]	Length [mm]	Weight [kg/100 pcs.]	PU [pc.]	Ref.-No.
36	690	310.00	1	67M36
36	1100	460.00	1	67M361100

Version: Non-flammable mineral wool

Type [kg/m³]	for mounting distances [mm]	PU [pc.]	Ref.-No.
150	20.00	1	67TSBMN020
150	30.00	1	67TSBMN030

For larger mounting distances a combination is possible.

Compact anchor



Threaded anchor – wavy tail



Threaded anchor – straight tail



Fire protection plate



Transport anchor systems

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PHILIPP Earthing technology



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Transport anchor systems

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Earthing sleeves

Transport anchor systems

Version: 71 EB F40				
Thread [M]	Length [mm]	Type	Description	Ref.-No.
Approved by: DB (German Railway) and ÖBB (Austrian Railway)				
16	400	71 EB F40 01	Straight flat steel	71ERD16
Approved by DB (German Railway)				
16	400	71 EB F40 02	Straight flat steel	-
16	400	71 EB F40 03	90° bended flat steel	-

DB acc. to drawing Ebs.15.03.19-11
 ÖBB acc. to drawing ED 6409 Bl.5



Connection technology

Version: 71 EB B16				
Thread [M]	Length [mm]	Rebar Ø [mm]	Type	Description
16	400	16	71 EB B16 01	Straight rebar
16	400	16	71 EB B16 02	Straight rebar
16	400	16	71 EB B16 03	Bended rebar

DB acc. to drawing Ebs.15.03.19-25



Facade technology

Version: 71 EB K95				
Thread [M]	Length [mm]	Coated copper wire [mm²]	Type	Description
16	400	95	71 EB K95 01	Copper cable
16	400	95	71 EB K95 02	Copper cable
16	400	95	71 EB K95 03	Copper cable

DB acc. to drawing Ebs.15.03.19-26



Fixing technology

Noise reduction technology

Earthing technology

Earthing connector

Version: 71 EV K70

for thread [M]	Length [mm]	Coated copper wire [mm ²]	Type	Description
16	400	70	71 EB K70 03	CuStAl-cable PVC-coated

DB acc. to drawing Ebs.15.03.17-6

Earthing connector



acc. to DB
requirements

Transport anchor systems

Connection technology

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Earthing technology

Our customers trust us to deliver. We do everything in our power to reward their faith and we start each day intending to do better than the last. We provide strength and stability in an ever-changing world.

Welcome to the PHILIPP Group

Sustainable
solutions



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