



Fastening Accessories

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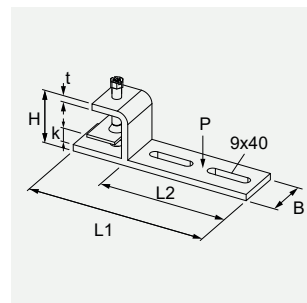


Clamping Assembly

KLUGW

Clamping fasteners, universal, welded, horizontal

Article	H mm	B mm	L1 mm	L2 mm	t mm	M Nm	k mm	P _{max} kN	G kg
Steel, hot-dip galvanised									
KLUGW 10F	50	40	165	113	6.00	10	3 - 31	1.10	0.469
KLUGW 20F	50	40	270	218	6.00	10	3 - 31	0.70	0.647
KLUGW 30F	50	40	375	323	6.00	10	3 - 31	0.40	0.824
Stainless steel, acc. to AISI 304 (BS 304S31)									
KLUGW 10E	50	40	165	113	6.00	10	3 - 31	1.10	0.444
KLUGW 20E	50	40	270	218	6.00	10	3 - 31	0.70	0.614
KLUGW 30E	50	40	375	323	6.00	10	3 - 31	0.40	0.782



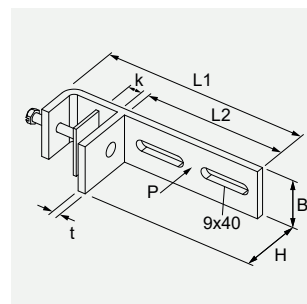
optional accessories

KLRL	Clamp fastening set, long	477
GH 6x24	Mounting hooks	119
US9021	Washer, DIN EN ISO 7093	510
SEMSS	Hexagon nut, self-locking, DIN 985	327, 512
KLU	Clamp fastening set	119, 481

KLUGS

Clamping fasteners, universal, welded, vertical

Article	H mm	B mm	L1 mm	L2 mm	t mm	M Nm	k mm	G kg
Steel, hot-dip galvanised								
KLUGS 10F	52	40	163	113	6.00	10	3 - 31	0.465
KLUGS 20F	52	40	268	218	6.00	10	3 - 31	0.643
KLUGS 30F	52	40	373	323	6.00	10	3 - 31	0.820
Stainless steel, acc. to AISI 304 (BS 304S31)								
KLUGS 10E	52	40	163	113	6.00	10	3 - 31	0.440
KLUGS 20E	52	40	268	218	6.00	10	3 - 31	0.610
KLUGS 30E	52	40	373	323	6.00	10	3 - 31	0.778



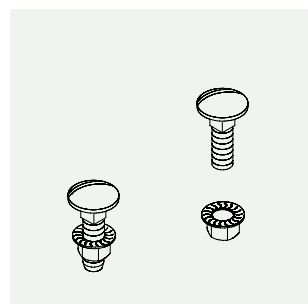
optional accessories

KLRL	Clamp fastening set, long	477
GH 6x24	Mounting hooks	119
US9021	Washer, DIN EN ISO 7093	510
SEMSS	Hexagon nut, self-locking, DIN 985	327, 512
KLU	Clamp fastening set	119, 481

KLR

Clamp fastening set

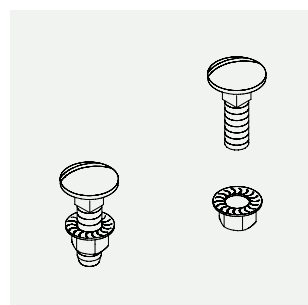
Article	G kg
steel, galvanic zinc plated	
KLR	0.014
KLR 6X25	0.018
Stainless steel, acc. to AISI 304 (BS 304S31)	
KLRE	0.016
KLR 6X25E	0.020
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
KLRE4	0.018



KLRL

Clamp fastening set, long

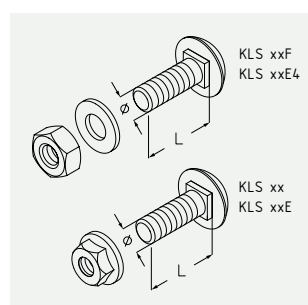
Article	G kg
steel, galvanic zinc plated	
KLRL	0.016
Stainless steel, acc. to AISI 304 (BS 304S31)	
KLRL E	0.018



KLS

Clamp fastening set

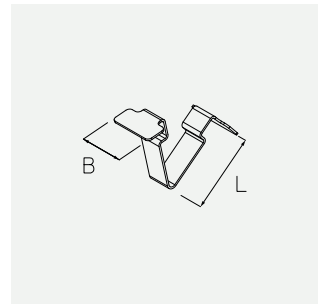
Article	L mm	G kg
Steel, hot-dip galvanised		
KLS 10X20F	20	0.035
steel, galvanic zinc plated		
KLS 8X16	16	0.018
KLS 8X25	25	0.021
KLS 10X20	20	0.032
Stainless steel, acc. to AISI 304 (BS 304S31)		
KLS 8X16E	16	0.018
KLS 8X25E	25	0.020
KLS 10X20E	20	0.033
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)		
KLS 8X16E4	16	0.017
KLS 10X20E4	20	0.035



KLF

Spring clamp fastener

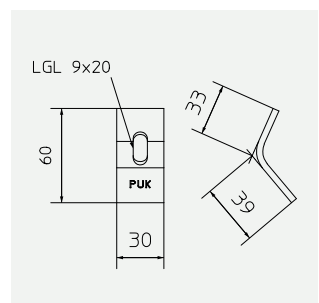
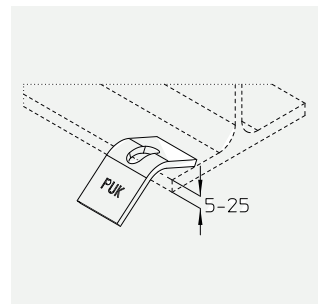
Article	B mm	L mm	G kg
Stainless steel, acc. to AISI 304 (BS 304S31)			
KLFE	12	19	0.001



SKLL

Clamping claw, light

Article	G kg
Steel, hot-dip galvanised	
SKLL F	0.062
Stainless steel, acc. to AISI 304 (BS 304S31)	
SKLL E	0.059



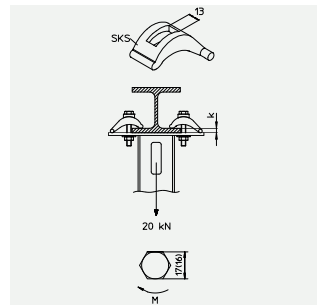
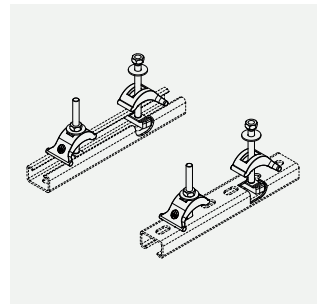
SKS H

Beam clamp set

Article	G
	kg
Steel, hot-dip galvanised	
SKS HF	0.619
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
SKS HE4	0.593

optional accessories

KHA 2	50x31 mm profile rail, perforated	461
KIS	Wall bracket, heavy-duty	402



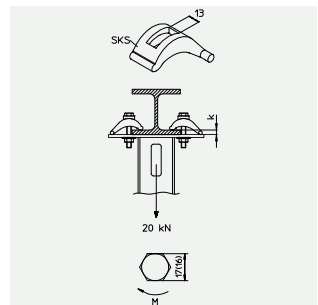
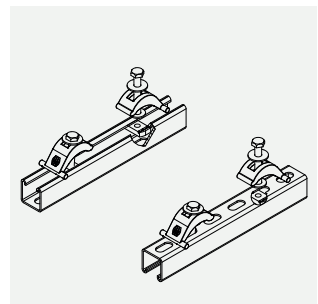
SKS A

Clamping claw, heavy, A/KHA 21/41/42/82

Article	G
	kg
Steel, hot-dip galvanised	
SKS AF	0.555
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
SKS AE4	0.552

optional accessories

A 41	41x41 mm profile rail, unperforated	460
KHA 21	41x21 mm profile rail, perforated	448
KHA 41	41x41 mm profile rail, perforated	324, 445
KHA 42	41x42 mm profile rail, perforated	465
KHA 82	41x82 mm profile rail, perforated	466



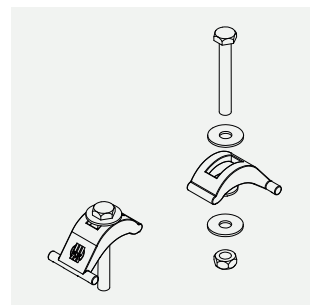
SKS M

Beam clamp set

Article	G kg
Steel, hot-dip galvanised	
SKS MF	0.518
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
SKS ME4	0.522

optional accessories

KISS	Wall bracket, extra heavy-duty	403
KBSW	Bracket fixing for steel girders and walls	404



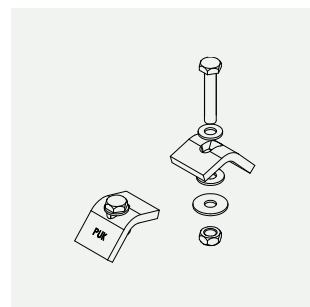
SKL M

Beam clamp set

Article	G kg
Steel, hot-dip galvanised	
SKL MF	0.477
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
SKL ME4	0.458

optional accessories

KDU 60	Bracket support, heavy duty, 60x40 mm	417
KHA 2	50x31 mm profile rail, perforated	461
HS22	Tee-head bolt	516



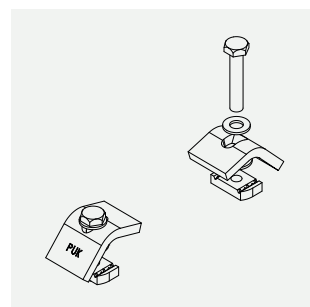
SKL A

Beam clamp set

Article	G kg
Steel, hot-dip galvanised	
SKL AF	0.513
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
SKL AE4	0.487

optional accessories

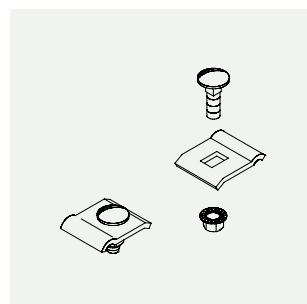
A 41	41x41 mm profile rail, unperforated	460
KHA 41	41x41 mm profile rail, perforated	324,445
KHAL 41	41x41 mm profile rail, perforated	446



KLU

Clamp fastening set

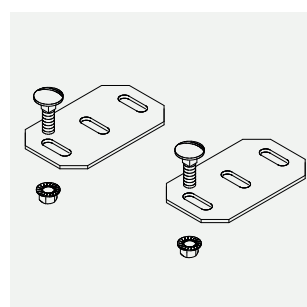
Article	G kg
Steel, pre-galvanised/Sendzimir process	
KLU	0.046
Steel, hot-dip galvanised	
KLU F	0.048
steel, galvanic zinc plated	
KLU GV	0.044
Stainless steel, acc. to AISI 304 (BS 304S31)	
KLU E	0.046
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)	
KLU E4	0.046



KLUS

Clamp fastening set

Article	t mm	G kg
Steel, pre-galvanised/Sendzimir process		
KLUS	1.00	0.082
Stainless steel, acc. to AISI 304 (BS 304S31)		
KLUS E	1.00	0.098
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)		
KLUS E4	1.00	0.098



optional accessories

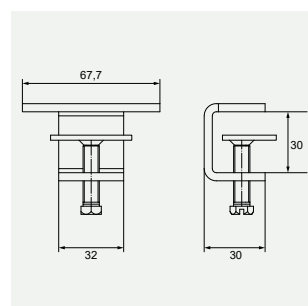
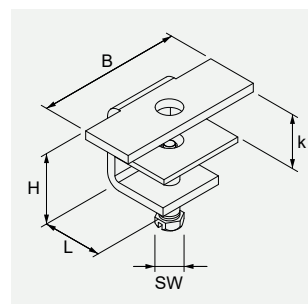
FRSV	Round-head bolt with short square, DIN 603	503
SEMS	Hexagonal nut with flange, DIN EN 1661	512
KLR	Clamp fastening set	477
KLU	Clamp fastening set	119, 481



KLUT

Clamping fasteners

Article	H	B	L	M	k	G
	mm	mm	mm	Nm	mm	kg
Steel, hot-dip galvanised						
KLUT F	38	68	30	4.0	3 - 25	0.141
Stainless steel, acc. to AISI 304 (BS 304S31)						
KLUT E	38	68	30	4.0	3 - 25	0.136
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)						
KLUT E4	38	68	30	4.0	3 - 25	0.137



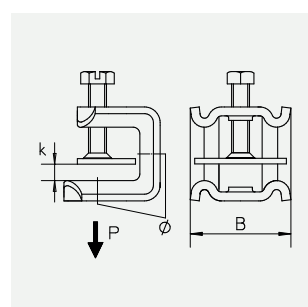
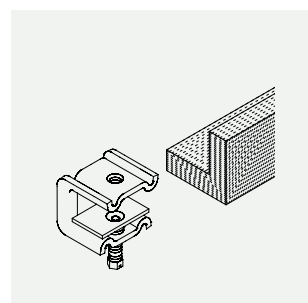
MKD

Mounting clamp

Article	B	Ø	P _{max}	M	k	G
	mm	mm	kN	Nm	mm	kg
Steel, hot-dip galvanised						
MKD 21	44	8.0	1.50	4	6 - 21	0.190
MKD 21 M10	44	10.0	1.50	4	6 - 21	0.173
MKD 21 M6	44	6.0	1.50	4	6 - 21	0.190
MKD 40	44	8.0	1.30	4	20 - 40	0.216
Stainless steel, acc. to AISI 304 (BS 304S31)						
MKD 21E	44	8.0	1.50	4	6 - 21	0.190
MKD 21E M10	44	10.0	1.50	4	6 - 21	0.190
MKD 21E M6	44	6.0	1.50	4	6 - 21	0.190
MKD 40E	44	8.0	1.30	4	20 - 40	0.200
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)						
MKD 21E4	44	8.0	1.50	4	6 - 21	0.190
MKD 40E4	44	8.0	1.30	4	20 - 40	0.200

optional accessories

MKD-L	Connecting link	484
RGW	Reducing thread	367,484



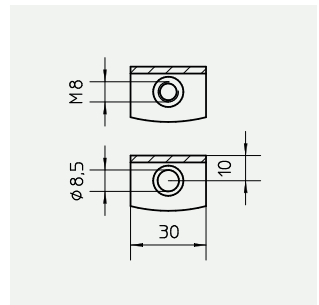
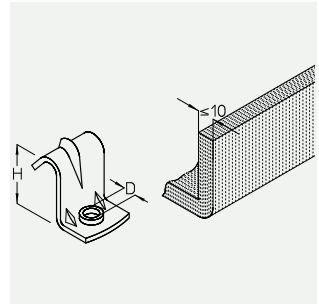
SN G

Tension hook

Article	H mm	D mm	MG	G kg
Steel, hot-dip galvanised				
SN 25 M/G	25		M8	0.041
SN 25 O/G	25	8.5		0.040
SN 35 M/G	35		M8	0.047
SN 35 O/G	35	8.5		0.048

optional accessories

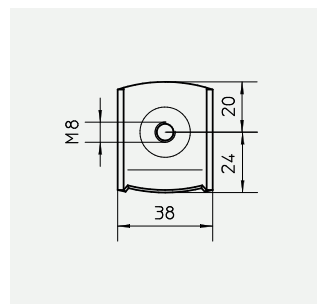
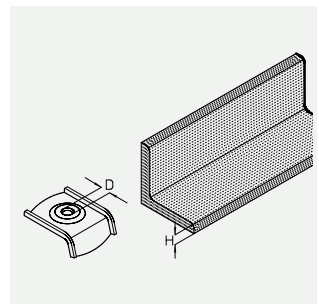
AN	Beam bracket	367,484
SK	Clamping claw	366,483



SK

Clamping claw

Article	H mm	G kg
Steel, hot-dip galvanised		
SK 4 M8	4	0.035
SK 6 M8	6	0.037
SK 8 M8	8	0.040
SK 10 M8	10	0.041
SK 12 M8	12	0.044



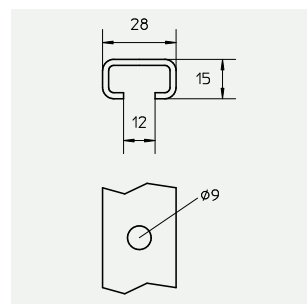
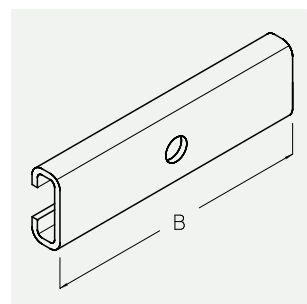
AN

Beam bracket

Article	B mm	G kg
Steel, hot-dip galvanised		
AN 100F	100	0.104

optional accessories

B	Cable clamp for fastening to C profile rails	339
SN G	Tension hook	366,483
SK	Clamping claw	366,483



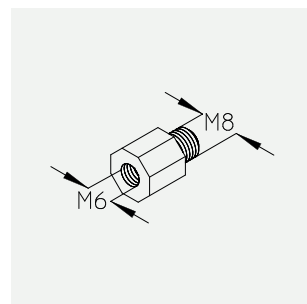
RGW

Reducing thread

Article	G kg
steel, galvanic zinc plated	
RGW 8/6	0.013
Stainless steel, acc. to AISI 304 (BS 304S31)	
RGW 8/6E	0.013

optional accessories

MKD	Mounting clamp	365,482
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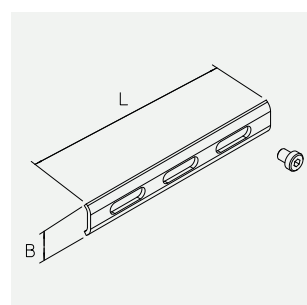
MKD-L

Connecting link

Article	B mm	L mm	G kg
Steel, hot-dip galvanised			
MKD-L F	30	170	0.130

optional accessories

MKD	Mounting clamp	365,482
KLU	Clamp fastening set	119,481



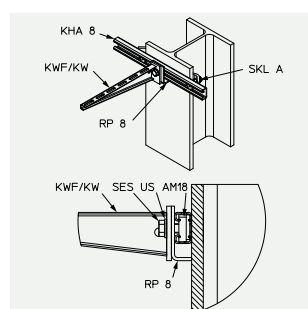
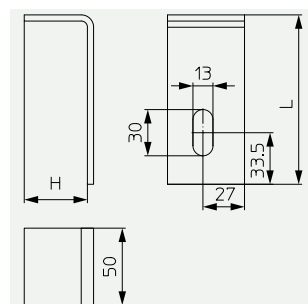
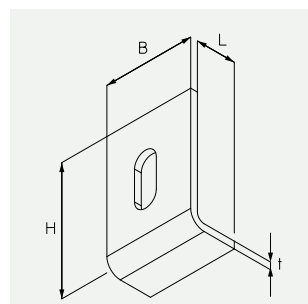
RP

Back plate for wall bracket KW/KWF

Article	B	L	G
	mm	mm	kg
Steel, hot-dip galvanised			
RP 8F	40	21	0.158
RP 41F	40	41	0.181

optional accessories

KHA 8	40x22 mm profile rail, perforated	464
KHA 41	41x41 mm profile rail, perforated	324, 445
KWF	Wall/strut bracket, light-duty	397
KW	Wall/strut bracket, standard	399
SKL A	Beam clamp set	480
SKS A	Clamping claw, heavy, A/KHA 21/41/42/82	479
SES	Hexagon head bolt, DIN 933	507
US125	Washer, DIN EN ISO 7089	509
AM 18	Channel nut	516
AM 22	Channel nut	515

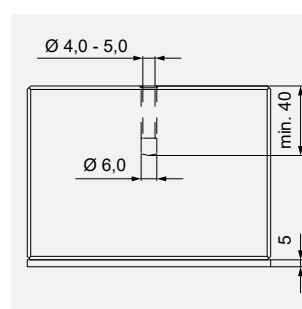
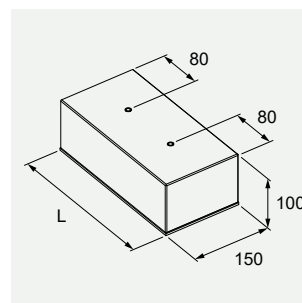


Cable Blocks

KFSB

Cable block, blank with protection mat

Article	H mm	B mm	L mm	G kg
fiber reinforced concrete				
KFSB 030	100	150	300	9.500
KFSB 050	100	150	500	14.000



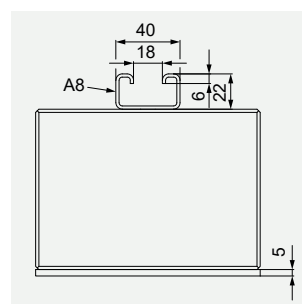
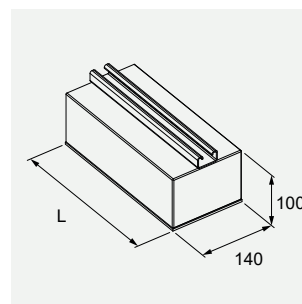
KFSC

Cable block, C-profile with protection mat

Article	H mm	B mm	L mm	G kg
fiber reinforced concrete				
KFSC 030	100	140	300	10.000
KFSC 050	100	140	500	16.000

optional accessories

HS18	Tee-head bolt	518
AM 18	Channel nut	516
AMF 18	Channel nut with spring	517
AMA 18	Channel nut	517

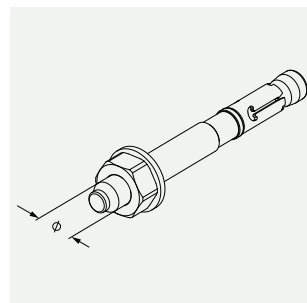


Dowels & Anchors

SD

Expansion anchor

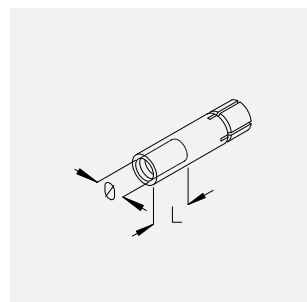
Article	Ø mm	L _{min} mm	P _{Zug} kN	P _{lat} kN	G kg
steel, galvanic zinc plated					
SD 8/10	8.0	58	3.8	9.3	0.034
SD 8/30	8.0	58	3.8	9.3	0.044
SD 10/10	10.0	75	6.2	15.0	0.067
SD 10/30	10.0	75	6.2	15.0	0.071
SD 12/10	12.0	88	9.5	21.1	0.108
SD 16/25	16.0	124	12.9	39.1	0.232
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)					
SD 8/10E4	8.0	58	3.8	10.1	0.034
SD 10/10E4	10.0	75	6.2	15.1	0.065
SD 10/30E4	10.0	75	6.2	15.1	0.071
SD 12/10E4	12.0	91	9.5	24.1	0.108



SAZ

Drop-in anchor

Article	D mm	Ø mm	L _{min} mm	P _{Zug} kN	G kg
steel, galvanic zinc plated					
SAZ 6	8	6.0	43	2.4	0.032
SAZ 8	10	8.0	43	1.6	0.014
SAZ 10	12	10.0	43	3.0	0.019
SAZ 12	14	12.0	43	3.6	0.026
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)					
SAZ 8E4	10	8.0	43	1.6	0.015
SAZ 10E4	12	10.0	43	3.0	0.022
SAZ 12E4	14	12.0	43	3.6	0.044



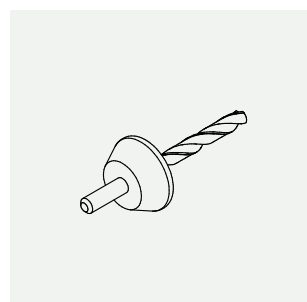
optional accessories

SAZ-B	Reinforced concrete drill	487
SAZ-D	Anchor	488

SAZ-B

Reinforced concrete drill

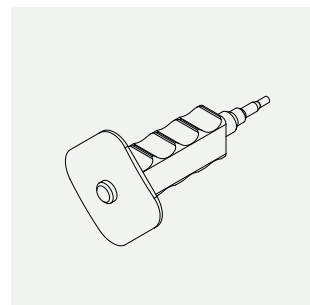
Article	G kg
steel, galvanic zinc plated	
SAZ-B 8	0.082
SAZ-B 10	0.140
SAZ-B 12	0.200



SAZ-D

Anchor

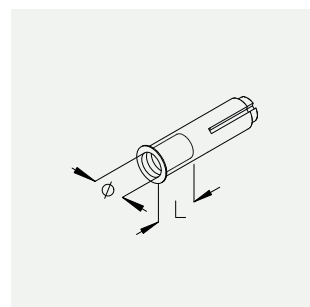
Article	Ø mm	G kg
steel, galvanic zinc plated		
SAZ-D 8	8.0	0.440
SAZ-D 10	10.0	0.502
SAZ-D 12	12.0	0.500



SA

Anchor bolt

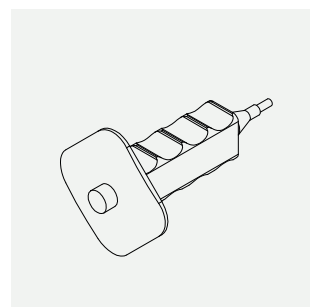
Article	D mm	Ø mm	L _{min} mm	P _{Zug} kN	G kg
steel, galvanic zinc plated					
SA 6	8	6.0	27	3.9	0.008
SA 8	10	8.0	33	3.9	0.011
SA 10	12	10.0	44	6.1	0.022
SA 12	15	12.0	54	8.5	0.041
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)					
SA 6E4	8	6.0	27	3.9	0.006
SA 8E4	10	8.0	33	3.9	0.012
SA 10E4	12	10.0	44	6.1	0.024
SA 12E4	15	12.0	54	8.5	0.015



SA-D

Anchor

Article	Ø mm	G kg
steel, galvanic zinc plated		
SA-D 8	8.0	0.450
SA-D 10	10.0	0.300
SA-D 12	12.0	0.305



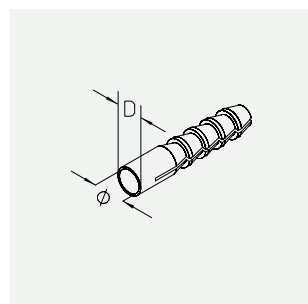
KD

Plastic dowels

Article	D mm	Ø mm	L _{min} mm	G kg
polyamide				
KD 6	8	6.0	55	0.001
KD 8	10	8.0	70	0.002
KD 10	12	10.0	80	0.004
KD 12	14	12.0	95	0.006

optional accessories

SEH	Hexagon wood screw	507
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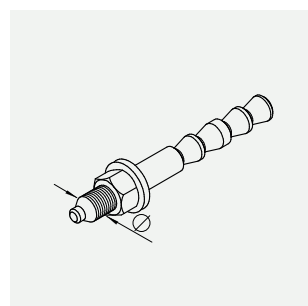
VAB-HB

Shear connector rod, concrete

Article	Ø mm	L _{min} mm	P _{Zug} kN	G kg
steel, galvanic zinc plated				
VAB-HB 10/20	10.0	75	8.0	0.067
VAB-HB 12/25	12.0	90	11.1	0.118
VAB-HB 16/30	16.0	110	15.9	0.300
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
VAB-HB 10/20E4	10.0	75	8.0	0.067
VAB-HB 12/25E4	12.0	90	11.1	0.118
VAB-HB 16/30E4	16.0	110	15.9	0.300

optional accessories

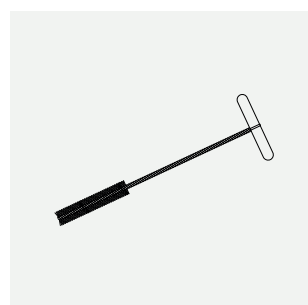
VAB-HB M	Shear connector mortar	490
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VAB-HB B

Shear connector rod, brush

Article	G kg
without material assignment	
VAB-HB B10	0.025
VAB-HB B12	0.044
VAB-HB B16	0.057



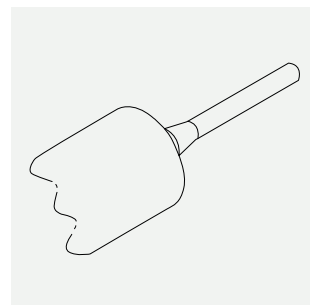
VAB-HB M

Shear connector mortar

Article	G
	kg
without material assignment	
VAB-HB M	0.717

optional accessories

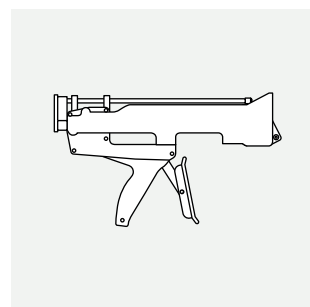
VA-AP	Shear connector rod, pistol	490
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VA-AP

Shear connector rod, pistol

Article	G
	kg
without material assignment	
VA-AP	1.153



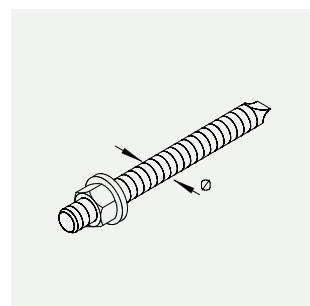
VAS-AS

Shear connector rod, stone

Article	Ø mm	L _{min} mm	G kg
steel, galvanic zinc plated			
VAS-AS 8/15	8.0	80	0.039
VAS-AS 10/25	10.0	80	0.066
VAS-AS 12/40	12.0	80	0.118
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
VAS-AS 8/15E4	8.0	80	0.041
VAS-AS 10/25E4	10.0	80	0.071
VAS-AS 12/40E4	12.0	80	0.118

optional accessories

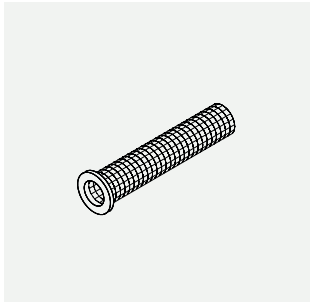
VAS-M	Shear connector mortar	491
VAS-SH	Perforated bush for shear connector	491



VAS-SH

Perforated bush for shear connector

Article	G
	kg
without material assignment	
VAS-SH	0.002



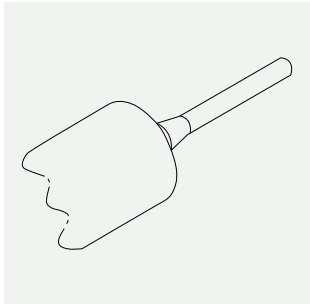
VAS-M

Shear connector mortar

Article	G
	kg
without material assignment	
VAS-M	0.672

optional accessories

VA-AP	Shear connector rod, pistol	490
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Suspension Components

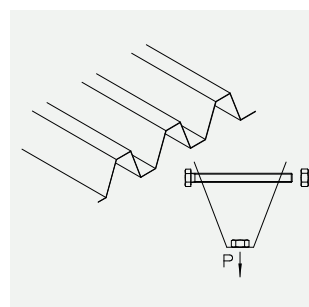
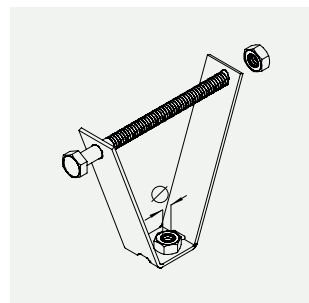
TBS

Trapezium bracket

Article	P _{Zug} kN	MG	G kg
steel, galvanic zinc plated			
TBS 8	1.3	M8	0.142
TBS 10	1.3	M10	0.149

optional accessories

DSAXPEF8 2	Wire suspension with M8 threaded end and express closure	495
DSAHFEF8 3	Wire suspension with M8 threaded end and universal closure	496
GB	Threaded rod, DIN 976-1	492

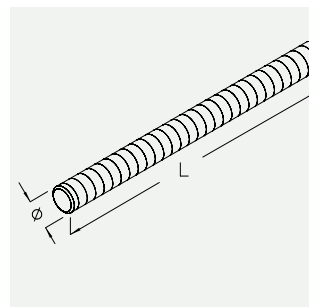


GB

Threaded rod, DIN 976-1

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
GB M8-03	300	8.0	0.082
GB M8-05	500	8.0	0.153
GB M8-10	1000	8.0	0.307
GB M10-03	300	10.0	0.141
GB M10-05	500	10.0	0.243
GB M10-10	1000	10.0	0.497
GB M12-03	300	12.0	0.217
GB M12-05	500	12.0	0.362
GB M12-10	1000	12.0	0.725

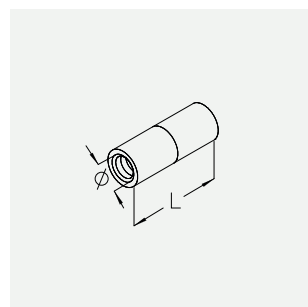
Stainless steel, acc. to AISI 304 (BS 304S31)			
GB M8-10E	1000	8.0	0.309
GB M10-10E	1000	10.0	0.500
GB M12-10E	1000	12.0	0.730



VM

Rod coupling

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
VM M8	30	8.0	0.011
VM M10	30	10.0	0.014
VM M12	30	12.0	0.017
Stainless steel, acc. to AISI 304 (BS 304S31)			
VM M8E	30	8.0	0.012
VM M10E	30	10.0	0.015
VM M12E	30	12.0	0.024



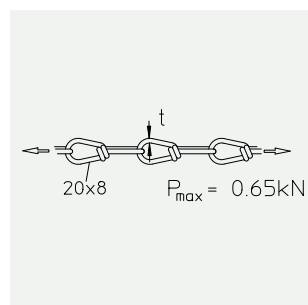
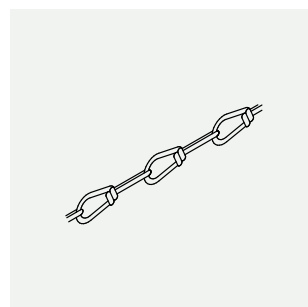
KNK

Junction chain

Article	L mm	t mm	G kg
steel, galvanic zinc plated			
KNK	1000	3.00	0.219

optional accessories

KNK-NG	Junction chain link	493
DAS	Wire eye-bolt	494
SHS	Eyebolt	494
SHH	Eyebolt	495
DSAGCB	Beam clip	501
DSAGRIPADAP	Thread adaptor with hole	501



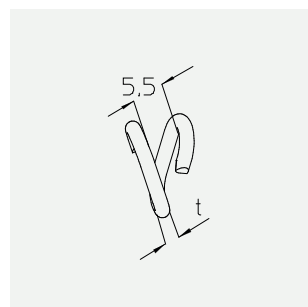
KNK-NG

Junction chain link

Article	t mm	G kg
steel, galvanic zinc plated		
KNK-NG	3.00	0.003

optional accessories

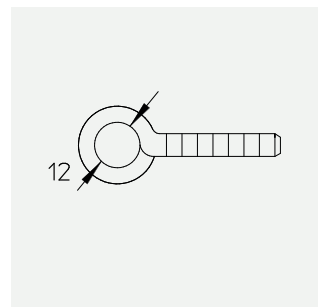
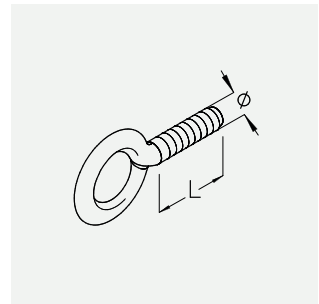
KNK	Junction chain	493
DAS	Wire eye-bolt	494
SHS	Eyebolt	494
SHH	Eyebolt	495
DSAGCB	Beam clip	501
DSAGRIPADAP	Thread adaptor with hole	501



DAS

Wire eye-bolt

Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DAS 8X30	30	0.50	0.025



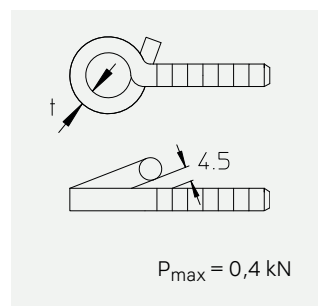
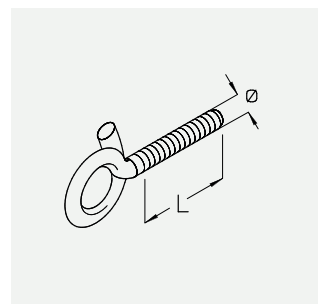
SHS

Eyebolt

Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
SHS 6X40	40	0.40	0.020
SHS 8X45	45	0.40	0.040

optional accessories

KNK	Junction chain	493
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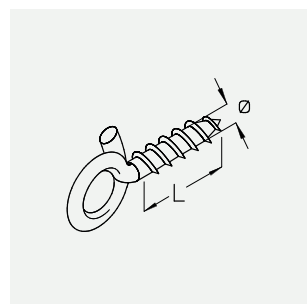
SHH

Eyebolt

Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
SHH 6X40	40	0.40	0.020

optional accessories

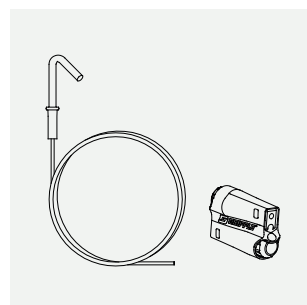
KNK	Junction chain	493
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DSAXPTH 2

Wire suspension with trapezoidal sheet metal hook and express closure

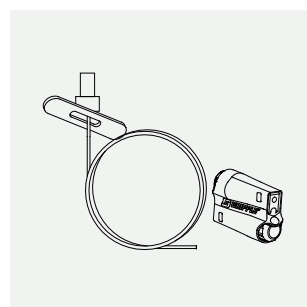
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAXPTH 21GV	1000	0.44	0.047
DSAXPTH 22GV	2000	0.44	0.065
DSAXPTH 23GV	3000	0.44	0.083
DSAXPTH 24GV	4000	0.44	0.100
DSAXPTH 25GV	5000	0.44	0.123
DSAXPTH 210GV	10000	0.44	0.210



DSAXPSP 2

Wire suspension with cross anchor and express closure

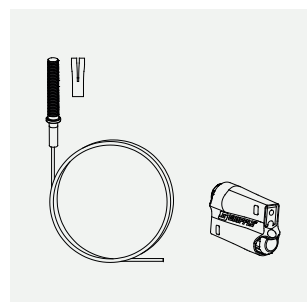
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAXPSP 21GV	1000	0.44	0.047
DSAXPSP 22GV	2000	0.44	0.065
DSAXPSP 23GV	3000	0.44	0.083
DSAXPSP 24GV	4000	0.44	0.100
DSAXPSP 25GV	5000	0.44	0.123
DSAXPSP 210GV	10000	0.44	0.210



DSAXPEF8 2

Wire suspension with M8 threaded end and express closure

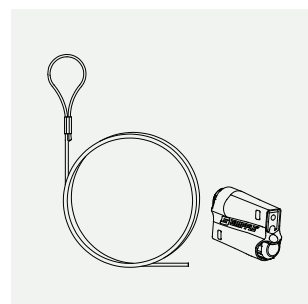
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAXPEF8 21GV	1000	0.44	0.075
DSAXPEF8 22GV	2000	0.44	0.092
DSAXPEF8 23GV	3000	0.44	0.109
DSAXPEF8 24GV	4000	0.44	0.126
DSAXPEF8 25GV	5000	0.44	0.144
DSAXPEF8 210GV	10000	0.44	0.228



DSAXPFR 2

Wire suspension with loop and express closure

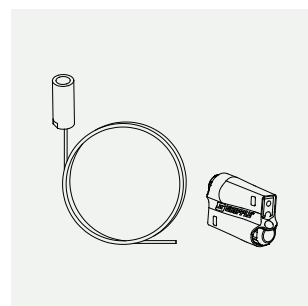
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAXPFR 21GV	1000	0.44	0.049
DSAXPFR 22GV	2000	0.44	0.064
DSAXPFR 23GV	3000	0.44	0.080
DSAXPFR 24GV	4000	0.44	0.095
DSAXPFR 25GV	5000	0.44	0.116
DSAXPFR 210GV	10000	0.44	0.208



DSAXPET8 2

Wire suspension with M8 threaded transition and express closure

Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAXPET8 21GV	1000	0.44	0.060
DSAXPET8 22GV	2000	0.44	0.077
DSAXPET8 23GV	3000	0.44	0.096
DSAXPET8 24GV	4000	0.44	0.113
DSAXPET8 25GV	5000	0.44	0.132
DSAXPET8 210GV	10000	0.44	0.215



DSAHFSP 3

Wire suspension with cross anchor and universal closure

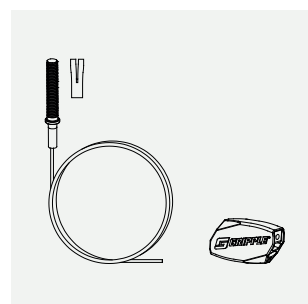
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAHFSP 31GV	1000	0.88	0.080
DSAHFSP 32GV	2000	0.88	0.117
DSAHFSP 33GV	3000	0.88	0.154
DSAHFSP 34GV	4000	0.88	0.195
DSAHFSP 35GV	5000	0.88	0.233
DSAHFSP 310GV	10000	0.88	0.425



DSAHFEF8 3

Wire suspension with M8 threaded end and universal closure

Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAHFEF8 31GV	1000	0.88	0.104
DSAHFEF8 32GV	2000	0.88	0.142
DSAHFEF8 33GV	3000	0.88	0.180
DSAHFEF8 34GV	4000	0.88	0.218
DSAHFEF8 35GV	5000	0.88	0.257
DSAHFEF8 310GV	10000	0.88	0.415



DSAHFFR 3

Wire suspension with loop and universal closure

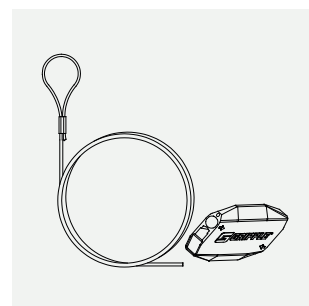
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAHFFR 31GV	1000	0.88	0.080
DSAHFFR 32GV	2000	0.88	0.115
DSAHFFR 33GV	3000	0.88	0.156
DSAHFFR 34GV	4000	0.88	0.180
DSAHFFR 35GV	5000	0.88	0.217
DSAHFFR 310GV	10000	0.88	0.390



DSAHFFR 4

Wire suspension with loop and universal closure

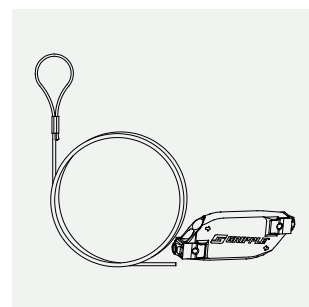
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAHFFR 41GV	1000	2.21	0.223
DSAHFFR 42GV	2000	2.21	0.287
DSAHFFR 43GV	3000	2.21	0.385
DSAHFFR 44GV	4000	2.21	0.447
DSAHFFR 45GV	5000	2.21	0.613
DSAHFFR 410GV	10000	2.21	1.088



DSAHFFR 5

Wire suspension with loop and universal closure

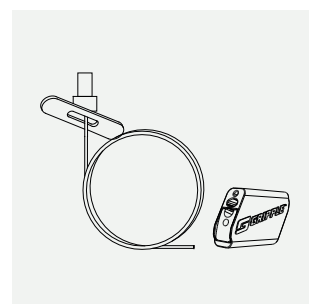
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAHFFR 51GV	1000	3.19	0.400
DSAHFFR 52GV	2000	3.19	0.700
DSAHFFR 53GV	3000	3.19	0.730
DSAHFFR 54GV	4000	3.19	0.888
DSAHFFR 55GV	5000	3.19	1.083
DSAHFFR 510GV	10000	3.19	1.875



DSAINOXSP 2

Stainless steel wire suspension with cross anchor and stainless steel universal closure

Article	L mm	P _{max} kN	G kg
Stainless steel, acc. to AISI 304 (BS 304S31)			
DSAINOXSP 21E	1000	0.44	0.049
DSAINOXSP 22E	2000	0.44	0.065
DSAINOXSP 23E	3000	0.44	0.080
DSAINOXSP 24E	4000	0.44	0.093
DSAINOXSP 25E	5000	0.44	0.100
DSAINOXSP 210E	10000	0.44	0.183



DSAINOXEF8 2

Stainless steel wire suspension with M8 threaded end and stainless steel universal closure

Article	L mm	P _{max} kN	G kg
Stainless steel, acc. to AISI 304 (BS 304S31)			
DSAINOXEF8 21E	1000	0.44	0.049
DSAINOXEF8 22E	2000	0.44	0.065
DSAINOXEF8 23E	3000	0.44	0.080
DSAINOXEF8 24E	4000	0.44	0.093
DSAINOXEF8 25E	5000	0.44	0.100
DSAINOXEF8 210E	10000	0.44	0.183



DSAINOXFR 2

Stainless steel wire suspension with loop and stainless steel universal closure

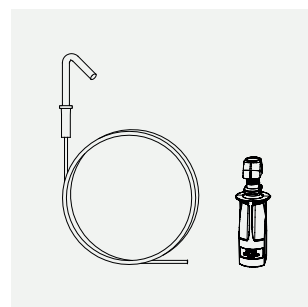
Article	L mm	P _{max} kN	G kg
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
DSAINOXFR 21E4	1000	0.44	0.035
DSAINOXFR 22E4	2000	0.44	0.051
DSAINOXFR 23E4	3000	0.44	0.066
DSAINOXFR 24E4	4000	0.44	0.095
DSAINOXFR 25E4	5000	0.44	0.101
DSAINOXFR 210E4	10000	0.44	0.184



DSAUGTH 2

Wire suspension with trapezoidal sheet metal hook and UniGrip standard closure

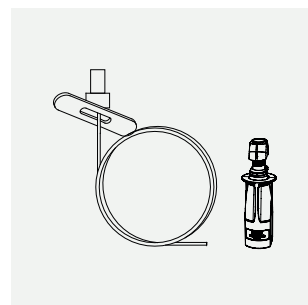
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAUGTH 21GV	1000	0.54	0.290
DSAUGTH 22GV	2000	0.54	0.310
DSAUGTH 23GV	3000	0.54	0.330
DSAUGTH 24GV	4000	0.54	0.350
DSAUGTH 25GV	5000	0.54	0.370
DSAUGTH 210GV	10000	0.54	0.620



DSAUGSP 2

Wire suspension with cross anchor and UniGrip standard lock

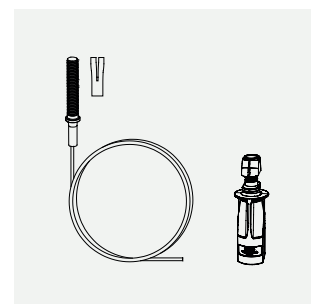
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAUGSP 21GV	1000	0.54	0.290
DSAUGSP 22GV	2000	0.54	0.310
DSAUGSP 23GV	3000	0.54	0.330
DSAUGSP 24GV	4000	0.54	0.350
DSAUGSP 25GV	5000	0.54	0.370
DSAUGSP 210GV	10000	0.54	0.620



DSAUGE8 2

Wire suspension with M8 threaded end and UniGrip standard closure

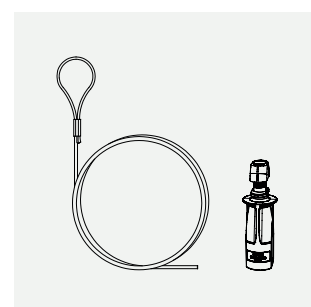
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAUGE8 21GV	1000	0.54	0.320
DSAUGE8 22GV	2000	0.54	0.340
DSAUGE8 23GV	3000	0.54	0.360
DSAUGE8 24GV	4000	0.54	0.380
DSAUGE8 25GV	5000	0.54	0.400
DSAUGE8 210GV	10000	0.54	0.650



DSAugFR 2

Wire suspension with loop and UniGrip standard closure

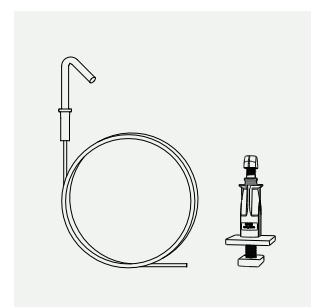
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAugFR 21GV	1000	0.54	0.280
DSAugFR 22GV	2000	0.54	0.300
DSAugFR 23GV	3000	0.54	0.320
DSAugFR 24GV	4000	0.54	0.340
DSAugFR 25GV	5000	0.54	0.360
DSAugFR 210GV	10000	0.54	0.600



DSAugRTH 2

Wire suspension with trapezoidal sheet metal hook and UniGrip central exit

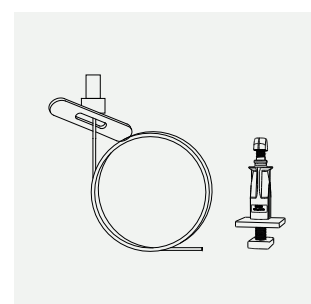
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAugRTH 21GV	1000	0.54	0.350
DSAugRTH 22GV	2000	0.54	0.370
DSAugRTH 23GV	3000	0.54	0.390
DSAugRTH 24GV	4000	0.54	0.410
DSAugRTH 25GV	5000	0.54	0.430
DSAugRTH 210GV	10000	0.54	0.680



DSAugRSP 2

Wire suspension with cross anchor and UniGrip central exit

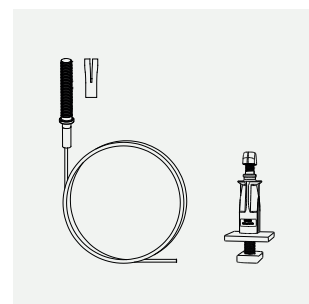
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAugRSP 21GV	1000	0.54	0.350
DSAugRSP 22GV	2000	0.54	0.370
DSAugRSP 23GV	3000	0.54	0.390
DSAugRSP 24GV	4000	0.54	0.410
DSAugRSP 25GV	5000	0.54	0.410
DSAugRSP 210GV	10000	0.54	0.680



DSAUGREF8 2

Wire suspension with M8 threaded end and UniGrip central exit

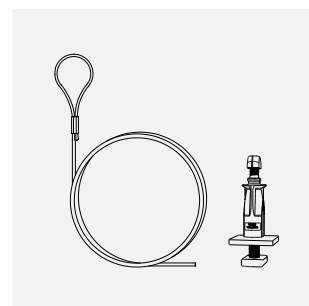
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAUGREF8 21GV	1000	0.54	0.380
DSAUGREF8 22GV	2000	0.54	0.400
DSAUGREF8 23GV	3000	0.54	0.430
DSAUGREF8 24GV	4000	0.54	0.460
DSAUGREF8 25GV	5000	0.54	0.490
DSAUGREF8 210GV	10000	0.54	0.710



DSAUGRFR 2

Wire suspension with loop and UniGrip central exit

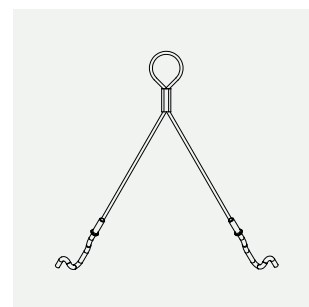
Article	L mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAUGRFR 21GV	1000	0.54	0.340
DSAUGRFR 22GV	2000	0.54	0.360
DSAUGRFR 23GV	3000	0.54	0.380
DSAUGRFR 24GV	4000	0.54	0.400
DSAUGRFR 25GV	5000	0.54	0.420
DSAUGRFR 210GV	10000	0.54	0.670



DSAY2AJCT 2

Y-Fit accessory with hooks for cable trays

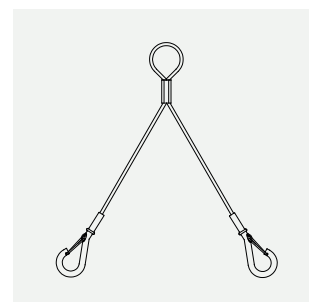
Article	P _{max} kN	G kg
steel, galvanic zinc plated		
DSAY2AJCT 2150GV	0.44	0.060
DSAY2AJCT 2300GV	0.44	0.065



DSAY2AJEC 2

Y-Fit accessory with hooks

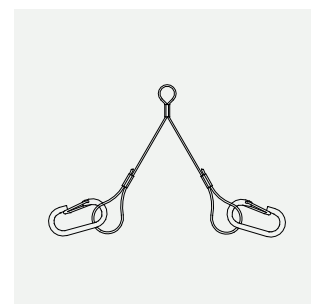
Article	P _{max} kN	G kg
steel, galvanic zinc plated		
DSAY2AJEC 2150GV	0.44	0.060
DSAY2AJEC 2300GV	0.44	0.065
DSAY2AJEC 2500GV	0.44	0.070
DSAY2AJEC 2800GV	0.44	0.077



DSAY2AJEM 2

Y-Fit Accessory with carabiner clips

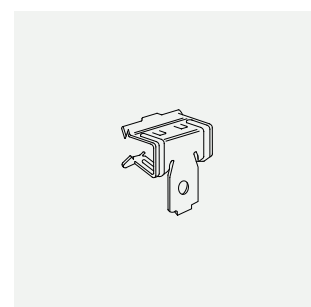
Article	P _{max} kN	G kg
steel, galvanic zinc plated		
DSAY2AJEM 2150GV	0.44	0.070
DSAY2AJEM 2300GV	0.44	0.090
DSAY2AJEM 2500GV	0.44	0.100



DSAGCB

Beam clip

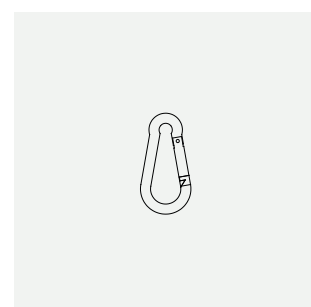
Article	k mm	P _{max} kN	G kg
steel, galvanic zinc plated			
DSAGCB 24GV	2-4	0.71	0.007
DSAGCB 48GV	4-8	0.96	0.014
DSAGCB 814GV	8-14	0.96	0.017
DSAGCB 1420GV	14-20	0.96	0.018



DSAGRIPKARA

Carabiner clip

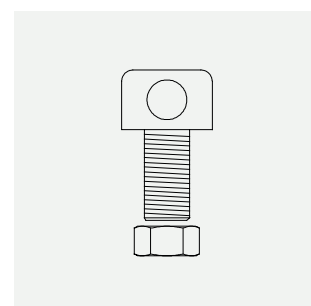
Article	P _{max} kN	G kg
steel, galvanic zinc plated		
DSAGRIPKARA 6GV	0.44	0.040
Stainless steel, acc. to AISI 304 (BS 304S31)		
DSAGRIPKARA 6E	0.44	0.040



DSAGRIPADAP

Thread adaptor with hole

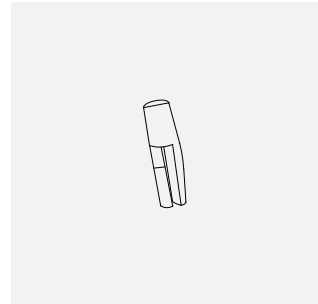
Article	Ø mm	G kg
steel, galvanic zinc plated		
DSAGRIPADAP 6GV	6.0	0.011
DSAGRIPADAP 8GV	8.0	0.025



DSAGRIPTWIS

Wire end cap

Article	G
	kg
steel, galvanic zinc plated	
DSAGRIPTWIS	0.000



DSAGRIPCLE 1

Adjustment key

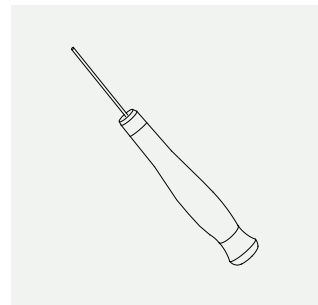
Article	G
	kg
steel, galvanic zinc plated	
DSAGRIPCLE 1	0.021



DSAGRIPCLE 2

Adjustment key

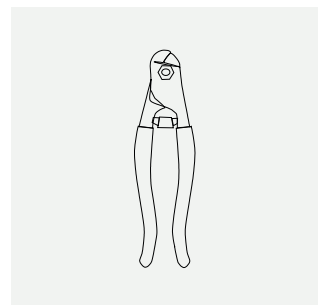
Article	G
	kg
steel, galvanic zinc plated	
DSAGRIPCLE 2	0.023



DSAGRIPPING

Wire cutter

Article	G
	kg
steel, galvanic zinc plated	
DSAGRIPPING	0.300
DSAGRIPPING 6	7.900

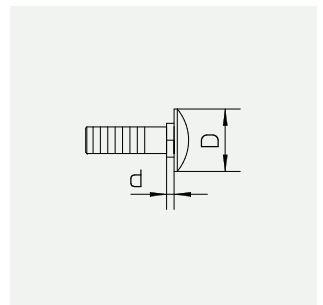
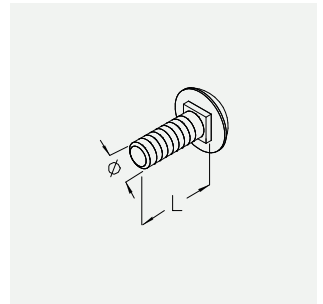


Screws and Bolts

FRSV

Round-head bolt with short square, DIN 603

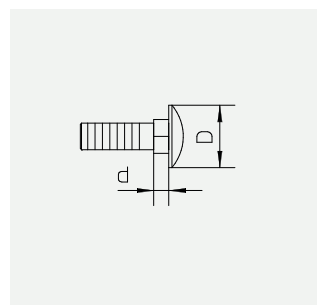
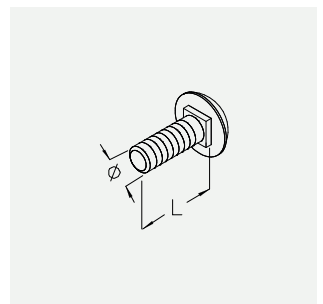
Article	L mm	d mm	D mm	Ø mm	G kg
Steel, hot-dip galvanised					
FRSV 10X20F	20	2.5	24	10.0	0.022
steel, galvanic zinc plated					
FRSV 6X12	12	1.5	16	6.0	0.005
FRSV 6X16	16	1.5	16	6.0	0.006
FRSV 8X16	16	2.0	20	8.0	0.012
FRSV 10X20	20	2.5	24	10.0	0.022
Stainless steel, acc. to AISI 304 (BS 304S31)					
FRSV 6X12E	12	1.5	16	6.0	0.005
FRSV 6X16E	16	1.5	16	6.0	0.006
FRSV 8X16E	16	2.0	20	8.0	0.012
FRSV 10X20E	20	2.5	24	10.0	0.022
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)					
FRSV 6X12E4	12	1.5	16	6.0	0.006
FRSV 6X16E4	16	1.5	16	6.0	0.006
FRSV 8X16E4	16	2.0	20	8.0	0.012
FRSV 10X20E4	20	2.5	24	10.0	0.024



FRS

Round-head bolt with square, DIN 603

Article	L mm	d mm	D mm	Ø mm	G kg
Steel, hot-dip galvanised					
FRS 10X20F	30	6.0	24	10.0	0.028
FRS 10X30F	30	6.0	24	10.0	0.028
FRS 12X30F	30	8.0	30	12.0	0.049
steel, galvanic zinc plated					
FRS 6X25	25	4.0	16	6.0	0.007
FRS 8X20	20	5.0	20	8.0	0.014
FRS 8X25	25	5.0	20	8.0	0.015
FRS 8X35	35	5.0	20	8.0	0.018
FRS 8X50	50	5.0	20	8.0	0.022
FRS 10X30	30	6.0	24	10.0	0.027
FRS 12X30	30	8.0	30	12.0	0.047

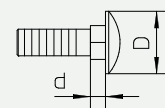
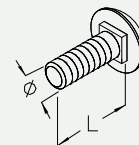


FRS

Round-head bolt with square, DIN 603

Article	L	d	D	Ø	G
	mm	mm	mm	mm	kg
Stainless steel, acc. to AISI 304 (BS 304S31)					
FRS 6X16E	16	4.0	16	6.0	0.006
FRS 6X20E	20	4.0	16	6.0	0.006
FRS 6X25E	25	4.0	16	6.0	0.007
FRS 6X50E	50	4.0	16	6.0	0.014
FRS 8X20E	20	5.0	20	8.0	0.014
FRS 8X25E	25	5.0	20	8.0	0.014
FRS 8X35E	35	5.0	20	8.0	0.018
FRS 8X50E	50	5.0	20	8.0	0.022
FRS 10X30E	30	6.0	24	10.0	0.029
FRS 12X30E	30	8.0	30	12.0	0.051

Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)					
FRS 6X20E4	20	4.0	16	6.0	0.008
FRS 8X25E4	25	5.0	20	8.0	0.014
FRS 8X50E4	50	5.0	20	8.0	0.023



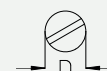
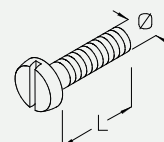
FKS

Slotted cylinder head screw, DIN EN ISO 1580

Article	L	D	Ø	G
	mm	mm	mm	kg
steel, galvanic zinc plated				
FKS 6X10	10	12	6.0	0.004
FKS 6X12GV	12	12	6.0	0.004
FKS 6X20	20	12	6.0	0.005
FKS 6X25	25	12	6.0	0.006
FKS 8X20	20	12	8.0	0.013

Stainless steel, acc. to AISI 304 (BS 304S31)				
FKS 6X10E	10	12	6.0	0.003
FKS 6X12E	12	12	6.0	0.004
FKS 6X16E	16	12	6.0	0.004
FKS 6X20E	20	12	6.0	0.005
FKS 6X25E	25	12	6.0	0.006

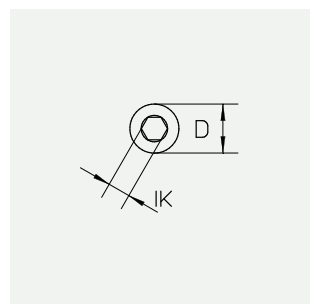
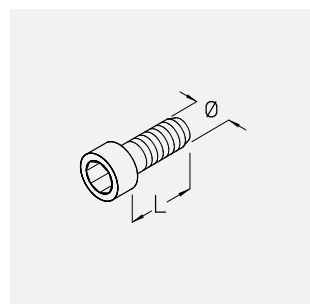
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
FKS 6X16E4	16	12	6.0	0.005
FKS 8X16E4	16	16	8.0	0.011



IK

Hexagon socket head screw, DIN 912

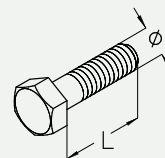
Article	L mm	D mm	Ø mm	G kg
steel, galvanic zinc plated				
IK 5X10	10	8.3	5.0	0.005
IK 5X40	40	8.3	5.0	0.019
IK 6X20	20	10.2	6.0	0.006
IK 8X20	20	13.3	8.0	0.012
IK 8X25	25	13.3	8.0	0.014
IK 8X30	30	13.3	8.0	0.015
IK 8X40	40	13.3	8.0	0.019
IK 10X20	20	16.3	10.0	0.021
IK 10X25	25	16.3	10.0	0.024
IK 10X30	30	16.3	10.0	0.026
IK 10X40	40	16.3	10.0	0.031
IK 12X20	20	18.3	12.0	0.031
IK 12X25	25	18.3	12.0	0.035
IK 12X30	30	18.3	12.0	0.038
IK 12X40	40	18.3	12.0	0.045
IK 12X50	50	18.3	12.0	0.052
Stainless steel, acc. to AISI 304 (BS 304S31)				
IK 8X10E	10	13.3	8.0	0.009
IK 8X20E	20	13.3	8.0	0.012
IK 8X25E	25	13.3	8.0	0.014
IK 8X30E	30	13.3	8.0	0.015
IK 8X40E	40	13.3	8.0	0.019
IK 8X50E	50	13.3	8.0	0.024
IK 10X20E	20	16.3	10.0	0.021
IK 10X25E	25	16.3	10.0	0.024
IK 10X30E	30	16.3	10.0	0.026
IK 10X40E	40	16.3	10.0	0.032
IK 12X20E	20	18.3	12.0	0.032
IK 12X25E	25	18.3	12.0	0.035
IK 12X30E	30	18.3	12.0	0.039
IK 12X40E	40	18.3	12.0	0.046
IK 12X50E	50	18.3	12.0	0.054



SES

Hexagon head bolt, DIN 933

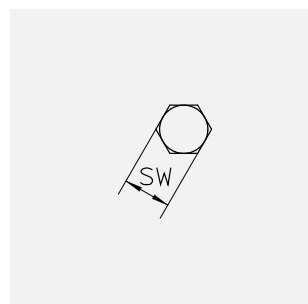
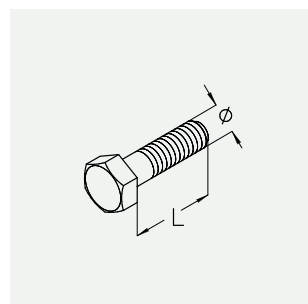
Article	L mm	Ø mm	SW mm	G kg
Steel, hot-dip galvanised				
SES 8X30F	30	8.0	13	0.014
SES 10X20F	20	10.0	17(16)	0.021
SES 10X25F	25	10.0	17(16)	0.023
SES 10X25-12.9F	25	10.0	17(16)	0.023
SES 10X30F	30	10.0	17(16)	0.025
SES 10X50F	50	10.0	17(16)	0.036
SES 10X55F	55	10.0	17(16)	0.038
SES 10X70F	70	10.0	17(16)	0.046
SES 10X75F	75	10.0	17(16)	0.047
SES 10X90F	90	10.0	17(16)	0.055
SES 10X100F	100	10.0	17(16)	0.061
SES 12X20F	20	12.0	19(18)	0.031
SES 12X25F	25	12.0	19(18)	0.035
SES 12X30F	30	12.0	19(18)	0.038
SES 12X40F	40	12.0	19(18)	0.045
SES 12X50F	50	12.0	19(18)	0.051
SES 12X70F	70	12.0	19(18)	0.065
SES 12X100F	100	12.0	19(18)	0.075
SES 12X120F	120	12.0	19(18)	0.103
steel, galvanic zinc plated				
SES 6X16	16	6.0	10	0.005
SES 6X20	20	6.0	10	0.005
SES 6X25	25	6.0	10	0.006
SES 6X30	30	6.0	10	0.007
SES 8X16	16	8.0	13	0.010
SES 8X20	20	8.0	13	0.011
SES 8X25	25	8.0	13	0.013
SES 8X30	30	8.0	13	0.014
SES 8X40	40	8.0	13	0.018
SES 8X110	110	8.0	13	0.039
SES 10X20	20	10.0	17(16)	0.021
SES 10X25	25	10.0	17(16)	0.023
SES 10X30	30	10.0	17(16)	0.025
SES 10X40	40	10.0	17(16)	0.031
SES 10X50	50	10.0	17(16)	0.036
SES 10X70	70	10.0	17(16)	0.046
SES 10X75	75	10.0	17(16)	0.047
SES 10X90	90	10.0	17(16)	0.055
SES 10X100	100	10.0	17(16)	0.061
SES 12X20	20	12.0	19(18)	0.031
SES 12X25	25	12.0	19(18)	0.034
SES 12X30	30	12.0	19(18)	0.038
SES 12X40	40	12.0	19(18)	0.045
SES 12X50	50	12.0	19(18)	0.052



SES

Hexagon head bolt, DIN 933

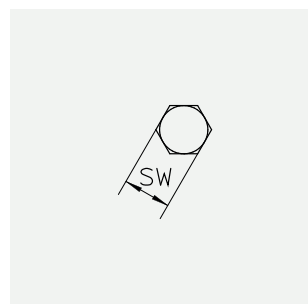
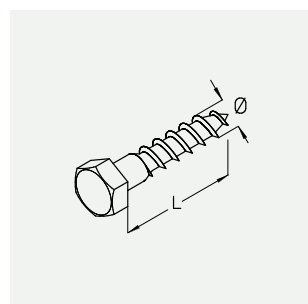
Article	L mm	Ø mm	SW mm	G kg
Stainless steel, acc. to AISI 304 (BS 304S31)				
SES 6X12E	12	6.0	10	0.005
SES 6X16E	16	6.0	10	0.005
SES 6X20E	20	6.0	10	0.005
SES 8X16E	16	8.0	13	0.010
SES 8X20E	20	8.0	13	0.011
SES 8X25E	25	8.0	13	0.013
SES 8X30E	30	8.0	13	0.015
SES 10X20E	20	10.0	17	0.021
SES 10X25E	25	10.0	17(16)	0.024
SES 10X30E	30	10.0	17(16)	0.026
SES 10X70E	70	10.0	17(16)	0.046
SES 10X75E	75	10.0	17(16)	0.049
SES 10X90E	90	10.0	17(16)	0.056
SES 10X100E	100	10.0	17(16)	0.061
SES 12X20E	20	12.0	19(18)	0.031
SES 12X25E	25	12.0	19(18)	0.034
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
SES 6X20E4	20	6.0	10	0.006
SES 8X20E4	20	8.0	13	0.012
SES 8X30E4	30	8.0	13	0.015
SES 10X20E4	20	10.0	17	0.021
SES 10X25E4	25	10.0	17(16)	0.024
SES 10X55E4	55	10.0	17(16)	0.038
SES 10X70E4	70	10.0	17(16)	0.046
SES 10X75E4	75	10.0	17(16)	0.049
SES 10X90E4	90	10.0	17(16)	0.056
SES 10X100E4	100	10.0	17(16)	0.061



SEH

Hexagon wood screw

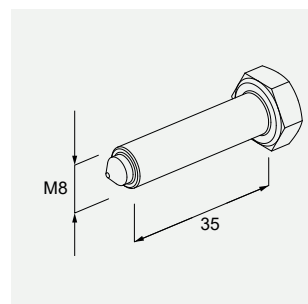
Article	L mm	Ø mm	SW mm	G kg
steel, galvanic zinc plated				
SEH 8X50	50	8.0	13	0.017
SEH 8X60	60	8.0	13	0.019
SEH 10X50	50	10.0	17	0.030
SEH 10X60	60	10.0	17	0.034
SEH 10X80	80	10.0	17	0.046



SESA

Hexagon head bolt with half dog point, DIN 564

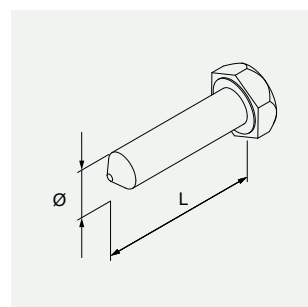
Article	MG	G kg
steel, galvanic zinc plated		
SESA 8X35	M8	0.014
Stainless steel, acc. to AISI 304 (BS 304S31)		
SESA 8X35E	M8	0.014
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)		
SESA 8X35E4	M8	0.014



SESMS

Hexagon head bolt with point, similar to DIN 933

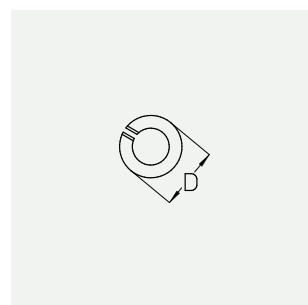
Article	L mm	Ø mm	SW mm	G kg
Steel, hot-dip galvanised				
SESMS 10X40F	40	10.0	17(16)	0.033



FR

Spring washer

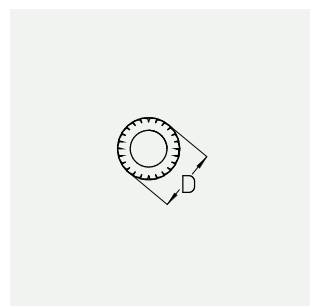
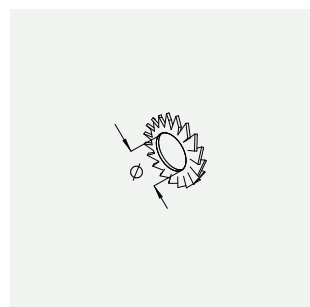
Article	D mm	Ø mm	G kg
steel, galvanic zinc plated			
FR B6	11.8	6.1	0.001
FR B8	14.8	8.1	0.001
FR B10	18.1	10.2	0.002
FR B12	21.1	12.2	0.002
Stainless steel, acc. to AISI 304 (BS 304S31)			
FR B6E	11.8	6.1	0.001
FR B8E	14.8	8.1	0.001
FR B10E	18.1	10.2	0.002
FR B12E	21.1	12.2	0.002
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
FR B6E4	11.8	6.1	0.001
FR B8E4	14.8	8.1	0.001
FR B10E4	18.1	10.2	0.002
FR B12E4	21.1	12.2	0.002



FS

Serrated washer

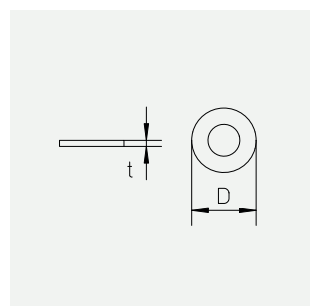
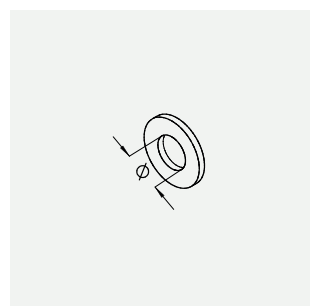
Article	B mm	D mm	Ø mm	G kg
steel, galvanic zinc plated				
FS 6	64	11	6.4	0.000
FS 8	82	14	8.2	0.001
FS 10	105	18	10.5	0.001
FS 12	125	20.5	12.5	0.002
Stainless steel, acc. to AISI 304 (BS 304S31)				
FS 6E	64	11	6.4	0.000
FS 8E	82	14	8.2	0.001
FS 10E	105	18	10.5	0.001
FS 12E	125	20.5	12.5	0.002



US125

Washer, DIN EN ISO 7089

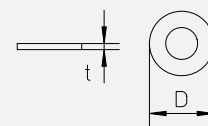
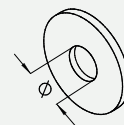
Article	t mm	D mm	Ø mm	G kg
Steel, hot-dip galvanised				
US 10X21F	2.00	20	10.5	0.003
US 13X24F	2.50	24	13.0	0.005
US 17X30F	3.00	30	17.0	0.011
steel, galvanic zinc plated				
US 6X12	1.60	12.5	6.4	0.001
US 8X17	2.00	16	8.4	0.001
US 10X21	2.00	20	10.5	0.003
US 13X24	2.50	24	13.0	0.005
US 17X30	3.00	30	17.0	0.009
Stainless steel, acc. to AISI 304 (BS 304S31)				
US 6X12E	1.50	12.5	6.4	0.001
US 8X17E	1.50	16	8.4	0.001
US 10X21E	2.00	20	10.5	0.003
US 13X24E	2.50	24	13.0	0.005
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
US 6X12E4	1.50	12.5	6.4	0.001
US 8X17E4	1.50	16	8.4	0.001
US 10X21E4	2.00	20	10.5	0.002



US9021

Washer, DIN EN ISO 7093

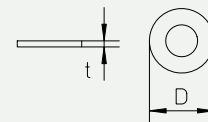
Article	t mm	D mm	Ø mm	G kg
Steel, hot-dip galvanised				
US 10X30F	2.50	30	10.5	0.011
US 13X40F	3.00	37	13.0	0.020
steel, galvanic zinc plated				
US 6X18	1.60	18	6.4	0.002
US 8X25	1.60	24	8.4	0.006
US 10X30	2.50	30	10.5	0.011
US 13X40	3.00	37	13.0	0.018
Stainless steel, acc. to AISI 304 (BS 304S31)				
US 6X18E	1.60	18	6.4	0.002
US 8X25E	1.60	24	8.4	0.006
US 10X30E	2.50	30	10.5	0.010
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
US 8X25E4	1.60	24	8.4	0.007
US 10X30E4	2.50	30	10.5	0.011



UVS

Captive washer

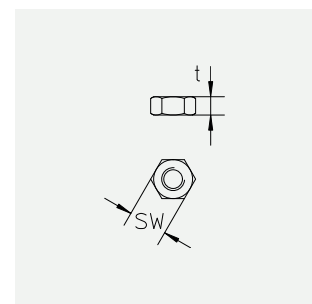
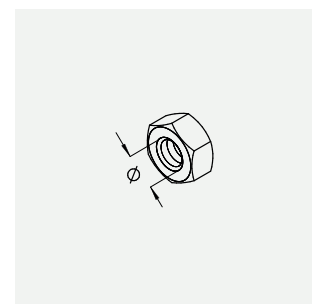
Article	t mm	D mm	Ø mm	G kg
polyethylen				
UVS M6	1.30	12.5	6.0	0.000
UVS M8	1.65	16.2	8.0	0.000
UVS M10X24	2.10	24	10.0	0.001
UVS M10	2.10	30	10.5	0.000



SEM

Hexagon nut, DIN 934

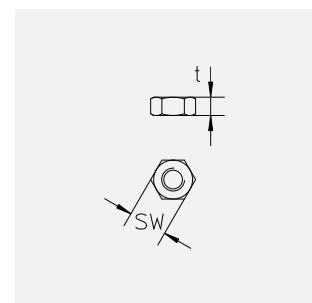
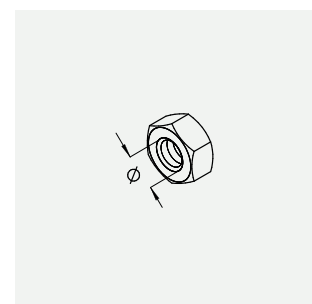
Article	t mm	Ø mm	SW mm	G kg
Steel, hot-dip galvanised				
SEM 10F	8.00	10.0	17(15)	0.010
SEM 12F	10.00	12.0	19(18)	0.015
steel, galvanic zinc plated				
SEM 6	5.00	6.0	10	0.002
SEM 8	6.50	8.0	13	0.005
SEM 10	8.00	10.0	17(15)	0.010
SEM 12	10.00	12.0	19(18)	0.014
Stainless steel, acc. to AISI 304 (BS 304S31)				
SEM 6E	5.00	6.0	10	0.002
SEM 8E	6.50	8.0	13	0.005
SEM 10E	8.00	10.0	17(15)	0.010
SEM 12E	10.00	12.0	19(18)	0.014
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
SEM 6E4	5.00	6.0	10	0.002
SEM 8E4	6.50	8.0	13	0.005
SEM 10E4	8.00	10.0	17(15)	0.009
SEM 12E4	10.00	12.0	19(18)	0.016



SEMB

Hexagon nut, self-locking, DIN 934

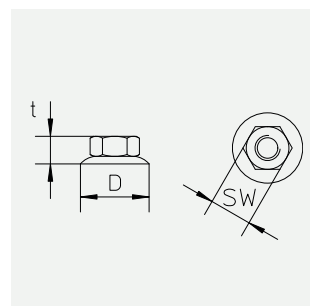
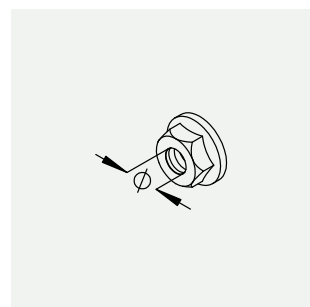
Article	t mm	Ø mm	SW mm	G kg
Steel, hot-dip galvanised				
SEMB 10F	9.50	10.0	15	0.011



SEMS

Hexagonal nut with flange, DIN EN 1661

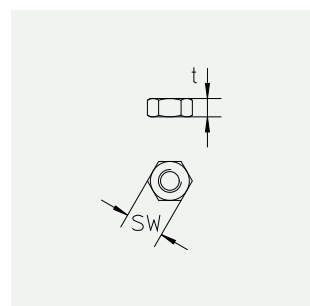
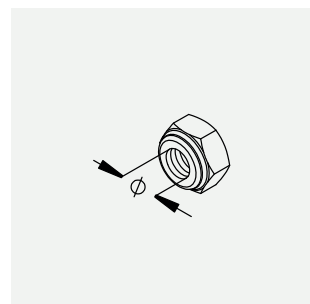
Article	t mm	D mm	Ø mm	SW mm	G kg
steel, galvanic zinc plated					
SEMS 6	5.50	14	6.0	10	0.002
SEMS 8	7.50	17	8.0	13	0.006
SEMS 10	9.50	21	10.0	17	0.010
Stainless steel, acc. to AISI 304 (BS 304S31)					
SEMS 6E	5.50	14	6.0	10	0.003
SEMS 8E	7.50	17	8.0	13	0.006
SEMS 10E	9.50	21	10.0	15	0.011



SEMSS

Hexagon nut, self-locking, DIN 985

Article	t mm	Ø mm	SW mm	G kg
steel, galvanic zinc plated				
SEMSS 5	5.00	5.0	8	0.002
SEMSS 6	6.00	6.0	10	0.002
SEMSS 8	8.00	8.0	13	0.005
SEMSS 10	10.00	10.0	17	0.010
Stainless steel, acc. to AISI 304 (BS 304S31)				
SEMSS 6E	8.00	6.0	13	0.002
SEMSS 8E	8.00	8.0	13	0.005
SEMSS 10E	10.00	10.0	17	0.010
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)				
SEMSS 6E4	6.00	6.0	10	0.002
SEMSS 8E4	8.00	8.0	13	0.005
SEMSS 10E4	10.00	10.0	17	0.010



SSK

Protection cap

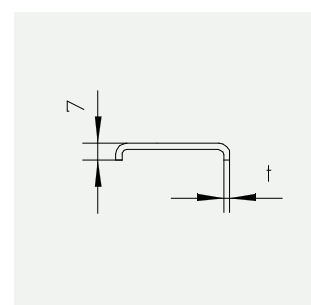
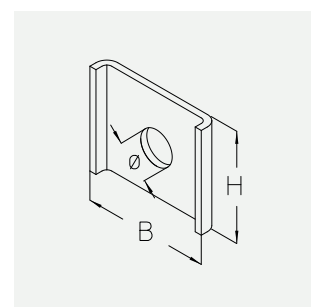
Article	SW mm	colour	G kg
polyethylen			
SSK 6	10	gray	0.000
SSK 8	13	gray	0.000
SSK 10	17	gray	0.001



RUS 41

U-shaped washer, A/KHA 21/41/42/82

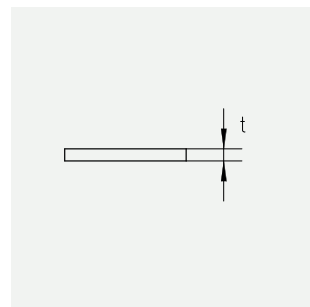
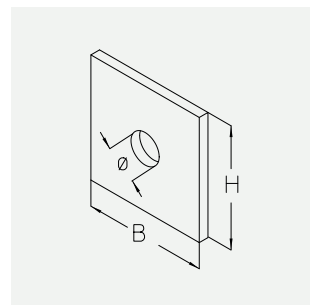
Article	H mm	B mm	t mm	Ø mm	G kg
Steel, hot-dip galvanised					
RUS 41-L13F	40	46	2.50	13.0	0.039
steel, galvanic zinc plated					
RUS 41-L13GV	40	46	2.50	13.0	0.035
Stainless steel, acc. to AISI 304 (BS 304S31)					
RUS 41-L13E	40	46	1.80	13.0	0.026



RUS 50

Washer, KHI

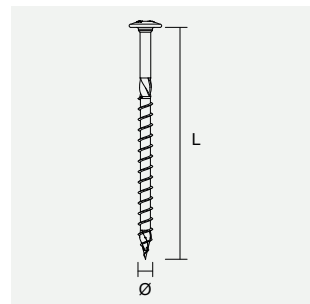
Article	H mm	B mm	t mm	Ø mm	G kg
Steel, hot-dip galvanised					
RUS 50-L13F	50	50	4.00	13.0	0.081
steel, galvanic zinc plated					
RUS 50-L13GV	50	50	4.00	13.0	0.075
Stainless steel, acc. to AISI 304 (BS 304S31)					
RUS 50-L13E	50	50	4.00	13.0	0.075



HT

Wood screw

Article	Ø mm	G kg
steel, galvanic zinc plated		
HT 6X100GV	6.0	0.013
HT 6X60GV	6.0	0.009
HT 6X80GV	6.0	0.011
HT 10X100GV	10.0	0.037
HT 10X120GV	10.0	0.043
HT 10X140GV	10.0	0.049
HT 10X80GV	10.0	0.031



Channel Nuts & Bolts

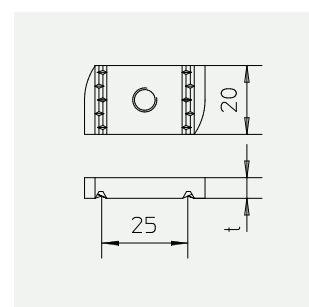
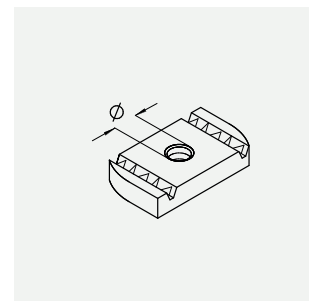
AM 22

Channel nut

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AM22 M10F	8.00	10.0	0.039
AM22 M12F	9.00	12.0	0.038
AM22 M6F	6.00	6.0	0.027
AM22 M8F	6.00	8.0	0.025
steel, galvanic zinc plated			
AM22 M10	8.00	10.0	0.031
AM22 M12	9.50	12.0	0.033
AM22 M6	6.00	6.0	0.026
AM22 M8	6.00	8.0	0.025
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
AM22 M10E4	8.00	10.0	0.035
AM22 M12E4	9.50	12.0	0.035
AM22 M6E4	6.00	6.0	0.027
AM22 M8E4	6.00	8.0	0.029

optional accessories

A 41	41x41 mm profile rail, unperforated	460
KHA 41	41x41 mm profile rail, perforated	324,445
KHAL 41	41x41 mm profile rail, perforated	446



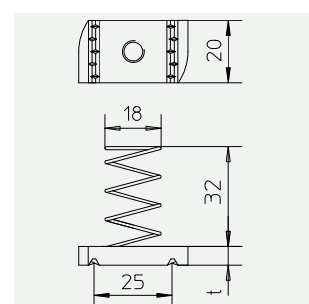
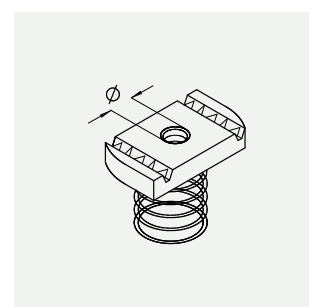
AMF 22

Channel nut with spring

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AMF22 M10F	8.00	10.0	0.034
AMF22 M12F	9.50	12.0	0.036
AMF22 M6F	6.00	6.0	0.029
AMF22 M8F	6.00	8.0	0.029
steel, galvanic zinc plated			
AMF22 M10	8.00	10.0	0.034
AMF22 M12	9.50	12.0	0.036
AMF22 M6	6.00	6.0	0.028
AMF22 M8	6.00	8.0	0.027
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
AMF22 M10E4	8.00	10.0	0.035
AMF22 M12E4	9.50	12.0	0.035
AMF22 M6E4	6.00	6.0	0.027
AMF22 M8E4	6.00	8.0	0.029

optional accessories

A 41	41x41 mm profile rail, unperforated	460
KHA 41	41x41 mm profile rail, perforated	324,445
KHAL 41	41x41 mm profile rail, perforated	446



HS22

Tee-head bolt

Article	L mm	Ø mm	G kg
Steel, hot-dip galvanised			
HS22 10X80F	80	10.0	0.119
steel, galvanic zinc plated			
HS22 12X30	30	12.0	0.096
HS22 12X40	40	12.0	0.103
HS22 12X50	50	12.0	0.110
HS22 12X60	60	12.0	0.118
HS22 16X40	40	16.0	0.193
HS22 16X60	60	16.0	0.181
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
HS22 10X80E4	80	10.0	0.105
HS22 12X30E4	30	12.0	0.097
HS22 12X40E4	40	12.0	0.105
HS22 12X50E4	50	12.0	0.112
HS22 12X60E4	60	12.0	0.119
HS22 16X40E4	40	16.0	0.196
HS22 16X60E4	60	16.0	0.222

optional accessories

A 2	50x31 mm profile rail, unperforated	458
KHA 2	50x31 mm profile rail, perforated	461
A 4	48x26 mm profile rail, unperforated	458
KHA 4	48x26 mm profile rail, perforated	461

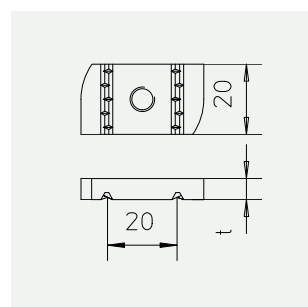
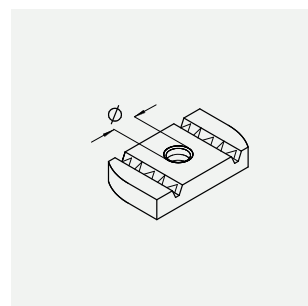
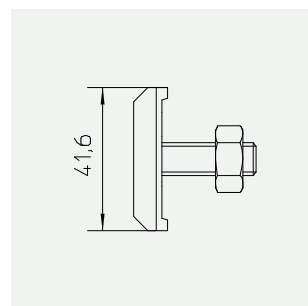
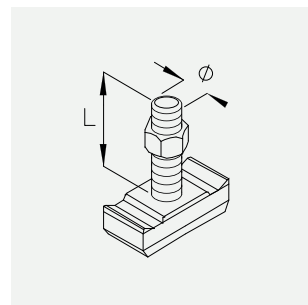
AM 18

Channel nut

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AM18 M10F	8.00	10.0	0.032
AM18 M12F	9.50	12.0	0.035
AM18 M6F	6.00	6.0	0.027
AM18 M8F	6.00	8.0	0.026
steel, galvanic zinc plated			
AM18 M10	8.00	10.0	0.032
AM18 M12	9.50	12.0	0.034
AM18 M6	6.00	6.0	0.026
AM18 M8	6.00	8.0	0.025
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
AM18 M10E4	8.00	10.0	0.032
AM18 M12E4	9.50	12.0	0.035
AM18 M6E4	6.00	6.0	0.027
AM18 M8E4	6.00	8.0	0.025

optional accessories

A 7	39.5x22 mm profile rail, unperforated	459
A 8	40x22 mm profile rail, unperforated	459
A 9	40x25 mm profile rail, unperforated	460



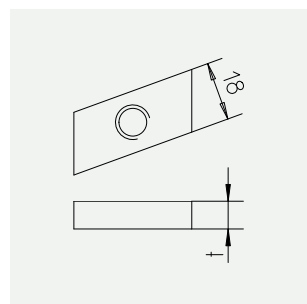
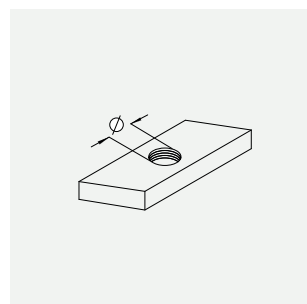
AMA 18

Channel nut

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AMA18 M10F	8.00	10.0	0.036
AMA18 M6F	5.00	6.0	0.024
AMA18 M8F	6.00	8.0	0.028
Stainless steel, acc. to AISI 304 (BS 304S31)			
AMA18 M10E	8.00	10.0	0.037
AMA18 M6E	6.00	6.0	0.022
AMA18 M8E	6.00	8.0	0.028

optional accessories

A 7	39.5x22 mm profile rail, unperforated	459
A 8	40x22 mm profile rail, unperforated	459
A 9	40x25 mm profile rail, unperforated	460



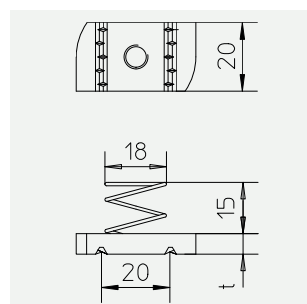
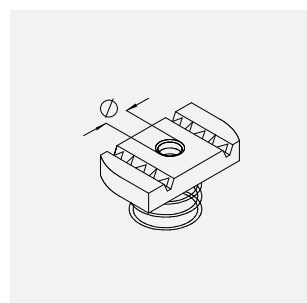
AMF 18

Channel nut with spring

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AMF18 M10F	8.00	10.0	0.035
AMF18 M12F	9.50	12.0	0.033
AMF18 M6F	6.00	6.0	0.028
AMF18 M8F	6.00	8.0	0.027
steel, galvanic zinc plated			
AMF18 M10	8.00	10.0	0.033
AMF18 M12	9.50	12.0	0.032
AMF18 M6	6.00	6.0	0.027
AMF18 M8	6.00	8.0	0.026

optional accessories

A 7	39.5x22 mm profile rail, unperforated	459
A 8	40x22 mm profile rail, unperforated	459
A 9	40x25 mm profile rail, unperforated	460



HS18

Tee-head bolt

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
HS18 10X30	30	10.0	0.062
HS18 10X40	40	10.0	0.067
HS18 10X50	50	10.0	0.072
HS18 10X60	60	10.0	0.077
HS18 12X30	30	12.0	0.074
HS18 12X40	40	12.0	0.081
HS18 12X60	60	12.0	0.096
HS18 16X40	40	16.0	0.142
HS18 16X60	60	16.0	0.168
HS18 16X80	80	16.0	0.195

Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
HS18 10X30E4	30	10.0	0.063
HS18 10X40E4	40	10.0	0.068
HS18 10X50E4	50	10.0	0.073

optional accessories

A 7	39.5x22 mm profile rail, unperforated	459
A 8	40x22 mm profile rail, unperforated	459
A 9	40x25 mm profile rail, unperforated	460

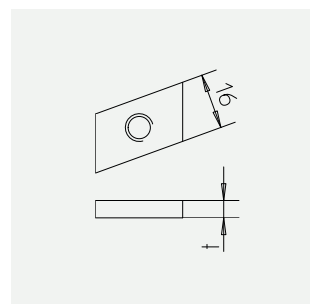
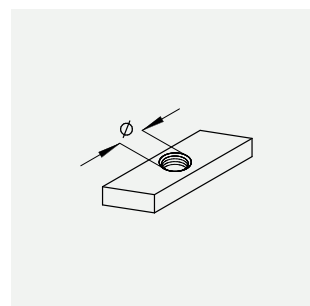
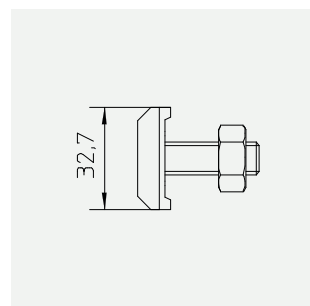
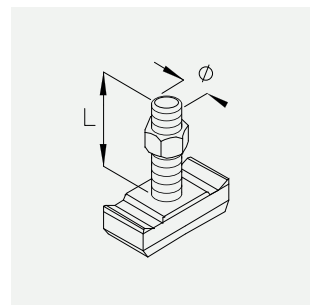
AM 16

Channel nut

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AM16 M6F	5.00	6.0	0.016
AM16 M8F	5.00	8.0	0.015
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
AM16 M6E4	5.00	6.0	0.016

optional accessories

B 7	30x15 mm profile rail, unperforated	467
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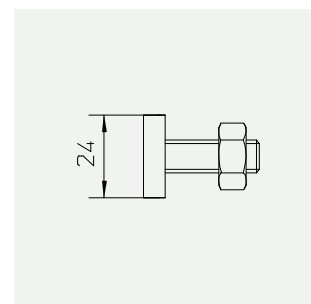
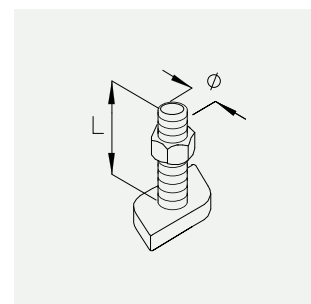
HS16

Tee-head bolt

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
HS16 10X30	30	10.0	0.042
HS16 10X50	50	10.0	0.058
HS16 8X20	20	8.0	0.026
HS16 8X40	40	8.0	0.040

optional accessories

B 7	30x15 mm profile rail, unperforated	467
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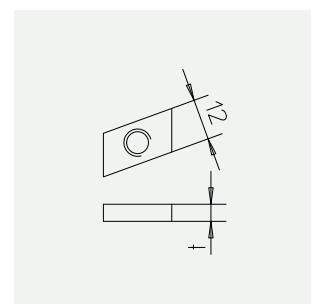
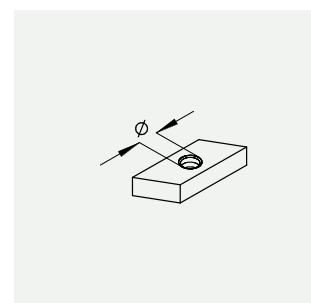
AM 12

Channel nut

Article	t mm	Ø mm	G kg
Steel, hot-dip galvanised			
AM12 M6F	5.00	6.0	0.009
AM12 M8F	5.00	8.0	0.008
Stainless steel, acc. to AISI 304 (BS 304S31)			
AM12 M8E	5.00	8.0	0.008

optional accessories

B 3	28x12 mm profile rail, unperforated	466
B 6	28x15 mm profile rail, unperforated	467



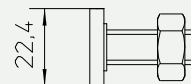
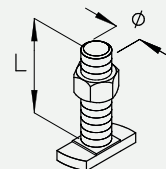
HS12

Tee-head bolt

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
HS12 10X20	20	10.0	0.030
HS12 10X30	30	10.0	0.035
HS12 10X40	40	10.0	0.040
HS12 6X30	30	6.0	0.017
HS12 6X40	40	6.0	0.019
HS12 8X20	20	8.0	0.021
HS12 8X30	30	8.0	0.024
HS12 8X40	40	8.0	0.028
Stainless steel, acc. to AISI 316Ti (BS 320S31) / AISI 316L (BS 316S11)			
HS12 10X20E4	20	10.0	0.031
HS12 10X30E4	30	10.0	0.035
HS12 10X40E4	40	10.0	0.041

optional accessories

B 3	28x12 mm profile rail, unperforated	466
B 6	28x15 mm profile rail, unperforated	467



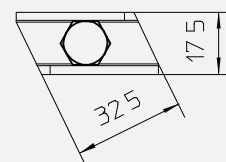
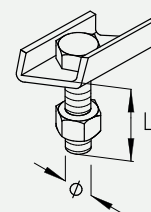
AKB

Anchor bolt, A 7/A 8/A 9

Article	L mm	Ø mm	G kg
steel, galvanic zinc plated			
AKB 10X35	35	10.0	0.044
AKB 10X45	45	10.0	0.049
AKB 12X35	35	12.0	0.052
AKB 12X45	45	12.0	0.062
AKB 6X25	25	6.0	0.026
AKB 8X25	25	8.0	0.031
AKB 8X35	35	8.0	0.034
AKB 8X45	45	8.0	0.038

optional accessories

A 7	39.5x22 mm profile rail, unperforated	459
A 8	40x22 mm profile rail, unperforated	459
A 9	40x25 mm profile rail, unperforated	460



Electrical Fastenings

SH QS

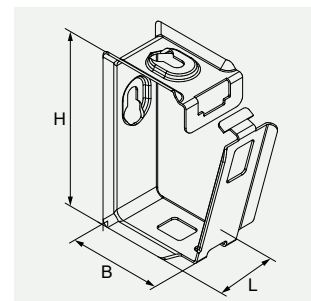
Multiple cable holder, metal



Article	H mm	B mm	L mm	cables	G kg
Steel, pre-galvanised/Sendzimir process					
SH 15Q S	66	45	31	15	0.031
SH 30Q S	92	63	34	30	0.072

optional accessories

SD	Expansion anchor	487
SAZ	Drop-in anchor	487



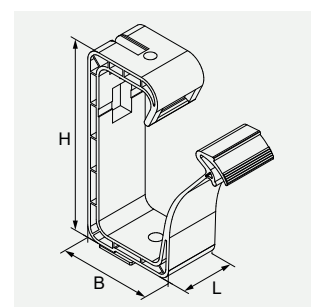
SH K

Multiple cable holder, plastic

Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
SH 15 FWK	94	49	28	15	960	0.030
SH 15 K	93	48	27	15	750	0.029
SH 30 FWK	129	60	28	30	960	0.050
SH 30 K	128	59	27	30	750	0.049

optional accessories

KOT K	Joiner, plastic	523
BFS K	Quick-mounting clip, plastic	523
BFS ND K	Quick-mounting clip, plastic, with nail anchor	523
SN	Screw-in nail anchor	524
KSD	Plastic plug-in anchor	524



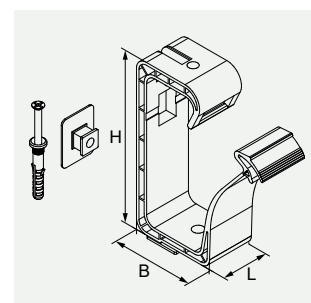
SH ND K

Multiple cable holder, plastic, with nail anchor

Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
SH 15 ND FWK	94	49	28	15	960	0.039
SH 15 ND K	93	48	27	15	750	0.035
SH 30 ND FWK	129	60	28	30	960	0.060
SH 30 ND K	128	59	27	30	750	0.056

optional accessories

KOT K	Joiner, plastic	523
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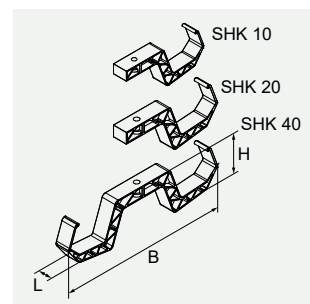
SHK K

Multiple cable holder clamp, plastic

Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
SHK 10 K	45	112	19	10	750	0.023
SHK 20 K	58	128	19	20	750	0.027
SHK 40 K	58	216	19	40	750	0.049

optional accessories

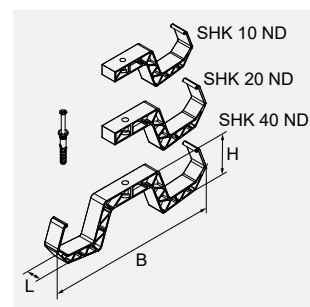
SN	Screw-in nail anchor	524
KSD	Plastic plug-in anchor	524



SHK ND K

Multiple cable holder clamp, plastic, with nail anchor

Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
SHK 10 ND K	45	112	19	10	750	0.032
SHK 20 ND K	58	128	19	20	750	0.036
SHK 40 ND K	58	216	19	40	750	0.054



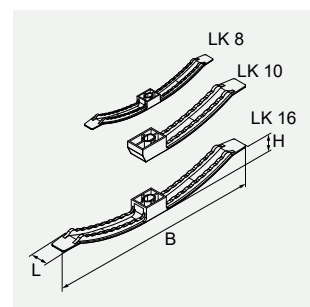
LK K

Cable clip, plastic

Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
LK 8 K	14	152	19	8	750	0.012
LK 8 FWK	14	152	19	8	960	0.011
LK 10 K	15	126	19	10	750	0.011
LK 10 FWK	15	126	19	10	960	0.009
LK 16 K	15	226	19	16	750	0.017
LK 16 FWK	15	226	19	16	960	0.016

optional accessories

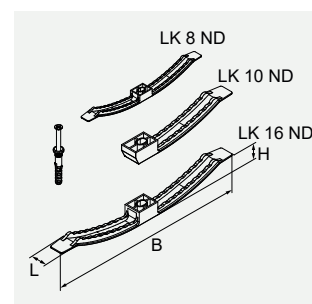
SN	Screw-in nail anchor	524
KSD	Plastic plug-in anchor	524



LK ND K

Cable clip, plastic, with nail anchor

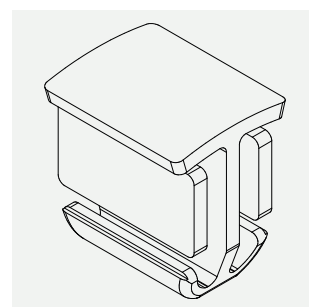
Article	H mm	B mm	L mm	cables	T _{max} °C	G kg
polyamide						
LK 8 ND K	14	152	19	8	750	0.019
LK 8 ND FWK	14	152	19	8	960	0.022
LK 10 ND K	15	126	19	10	750	0.017
LK 10 ND FWK	15	126	19	10	960	0.018
LK 16 ND K	15	226	19	16	750	0.026
LK 16 ND FWK	15	226	19	16	960	0.027



KOT K

Joiner, plastic

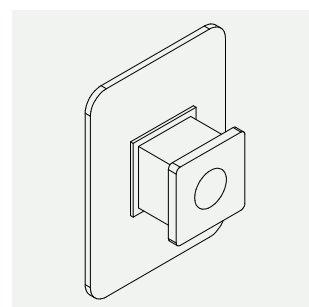
Article	T _{max} °C	G kg
polyamide		
KOT FWK	960	0.004
KOT K	750	0.004



BFS K

Quick-mounting clip, plastic

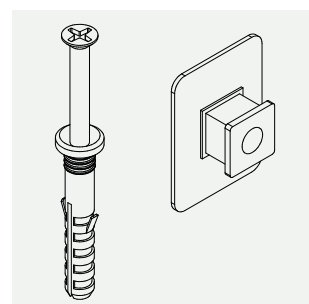
Article	T _{max} °C	G kg
polyamide		
BFS FWK	960	0.004
BFS K	750	0.004



BFS ND K

Quick-mounting clip, plastic, with nail anchor

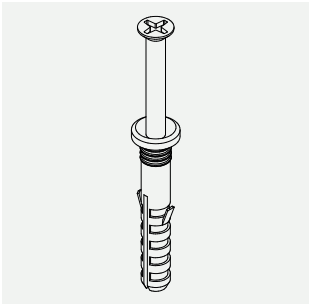
Article	T _{max} °C	G kg
polyamide		
BFS ND FWK	960	0.009
BFS ND K	750	0.009



SN

Screw-in nail anchor

Article	G
	kg
steel, galvanic zinc plated	
SN 6X50	0.005



KSD

Plastic plug-in anchor

Article	G
	kg
polyamide	
KSD 6X40	0.001



SD-BS

Expansion anchor, fire protection

Article	G
	kg
steel, galvanic zinc plated	
SD-BS 6/5	0.014

