Varifix® Quick-Mounting System

Versatile in planning and quickly mounted.

L-mounting rail

Easy suspension and screwing-on

C-mounting rail

Inserting the clip...

Inserting the screw fastener (e.g. Standardfix)

...and attaching the suspension piece

Technical Appendix

Dimensions, weights and maximum widths between supports of pipes

Nominal widths, outer diameters and pipe weights of various pipe types

Seamless steel pipes DIN 2448

Pipe												
Size		Outer dia. (standard wall thick-nesses)	Empty		Filled with water		Filled with water					
							Insulation					
							Mineral wool with sheet steel jacket				Rubber / PU hard foam	
							ρIns: 120 kg/m³ ρStl: 7,850 kg/m³				ρ: 80 kg/m³	
							Thickness: 50 %[2]		Thickness: 100 %[2]		Thickness: 50 %[2]	
DN	in inches	in mm	Weight in kg/m	Width bet. supports[1] in m	Weight in kg/m	Width bet. supports[1] in m	Weight in kg/m	Width bet. supports[1] in m	Weight in kg/m	Width bet. supports[1] in m	Weight in kg/m	Width bet. supports[1] in m
8	1/4	13.5	0.5	1.4	0.6	1.4	0.7	1.3	1.9	1.0	0.7	1.4
10		16.0	0.6	1.6	0.8	1.6	1.5	1.3	2.1	1.2	2.0	1.2
	3/8	17.2	0.7	1.7	1.6	1.4	1.6	1.4	2.2	1.3	1.6	1.4
15		19.0	0.8	1.9	1.9	1.5	1.9	1.5	2.4	1.4	1.1	1.8
		20.0	0.9	2.0	1.1	1.9	1.2	1.8	2.5	1.5	1.2	1.8
	1/2	21.3	1.0	2.1	1.2	1.9	2.1	1.7	2.6	1.6	1.3	1.9
20		25.0	1.1	2.3	1.5	2.2	2.5	1.9	3.0	1.8	1.6	2.2
	3/4	26.9	1.4	2.5	1.8	2.3	2.0	2.2	4.1	1.9	1.9	2.3
25	1	33.7	2.0	2.9	2.6	2.7	4.1	2.4	5.1	2.3	2.8	3.0
32		38.0	2.3	3.2	3.1	3.0	4.7	2.7	5.7	2.5	3.3	2.9
	1 1/4	42.4	2.6	3.5	3.6	3.2	5.6	2.9	7.2	2.7	4.0	3.2
40	1 1/2	48.3	2.9	3.9	4.4	3.5	6.4	3.2	7.7	3.0	4.7	3.4
		51.0	3.1	4.0	4.8	3.6	7.3	3.3	9.5	3.1	5.2	3.5
50		57.0	3.9	4.4	5.9	3.9	8.7	3.6	10.9	3.7	6.4	3.9
	2	60.3	4.1	4.6	6.4	4.1	9.3	3.7	11.5	3.5	7.0	4.0
		63.5	4.3	4.8	7.0	4.2	9.9	3.9	12.1	3.7	7.5	4.2
65		70.0	4.8	5.1	8.0	4.5	11.6	4.1	15.1	3.9	8.8	4.4
	2 1/2	76.1	5.2	5.5	9.1	4.8	12.8	4.4	16.4	4.1	9.9	4.7
80	3	88.9	6.8	6.2	12.1	5.3	17.2	4.9	21.8	4.6	13.4	5.2
100		101.6	8.7	6.8	15.7	5.9	22.3	5.4	28.9	5.1	17.6	5.7
		108.0	9.3	7.1	17.2	6.1	24.1	5.6	30.8	5.3	19.2	6.0
	4	114.3	9.8	7.5	18.8	6.3	25.9	5.9	32.7	5.5	20.9	6.2
125		127.0	12.1	8.1	23.3	6.9	30.8	6.4	37.9	6.1	25.5	6.7
		133.0	12.7	8.4	25.0	7.1	32.8	6.6	40.0	6.3	27.3	6.9
	5	139.7	13.4	8.7	27.0	7.3	35.0	6.8	42.3	6.5	29.4	7.1
150		159.0	17.2	9.6	34.8	8.0	43.6	7.6	51.2	7.3	37.4	7.9
	6	168.3	18.2	10.0	38.1	8.3	47.2	7.9	55.0	7.6	40.9	8.2
200		193.7	26.0	11.1	52.1	9.3	62.2	8.9	70.5	8.6	55.2	9.2
	8	219.1	33.1	12.2	66.6	10.2	77.5	9.8	86.3	9.6	69.9	10.1
225	9	244.5	37.1	13.2	79.2	10.9	91.2	10.6	100.5	10.3	82.9	10.8
250	10	273.0	41.5	14.4	94.7	11.7	107.7	11.3	117.5	11.1	98.8	11.6
300	12	323.9	55.6	16.4	130.8	13.2	145.7	12.9	156.5	12.6	135.5	13.1
350	14	355.6	68.7	17.5	159.2	14.2	175.2	13.9	186.6	13.7	164.3	14.1
400	16	406.4	86.4	19.4	205.0	15.6	223.0	15.3	235.3	14.9	210.7	15.5
450	18	457.0	110.4	21.2	260.2	17.0	280.1	16.4	293.4	16.0	266.6	16.8
500	20	508.0	135.1	22.9	320.3	17.9	342.1	17.3	356.4	16.9	327.3	17.7
600	24	610.0	184.5	26.3	453.0	19.3	478.6	18.8	494.7	18.4	461.3	19.1

Legend:

[1] Width between supports corresponding to the calculated static bend stiffness in the pipeline construction without inclines, with a defined standard wall thickness of the standard dimension and prevention of puddle formation in the pipelines.
Note: Information from the manufacturer must be observed!

[2] Pipe > DN 100, insulation 100 % = 100 mm and 50 % = 50 mm.

Technical Appendix

Dimensions, weights and maximum widths between supports of pipes

Nominal widths, outer diameters and pipe weights of various pipe types

Drain pipe, cast iron, SML

DN	Outer pipe dia. in mm	Pipe weight empty in kg/m	filled w/ water in kg/m	Width bet. supports in m
40	48	3.0	4.4	[1]
50	58	4.3	6.4	
70	78	5.9	9.9	
100	110	8.4	17.7	
125	135	11.8	24.5	
150	160	14.1	32.3	
200	210	23.1	54.6	
250	274	33.3	87.7	
300	326	43.2	120.8	
400	429	75.5	208.8	
500	532	104.3	311.8	

Drain pipe, hard PVC, DIN 8062

DN	Outer pipe dia. in mm	Pipe weight empty in kg/m	filled w/ water in kg/m	Width bet. supp. 20° in m	40° in m
40	50	0.2	1.3	0.8	0.6
50	63	0.3	2.0	1.1	0.7
70	75	0.5	3.9	1.3	0.8
100	110	1.0	8.0	1.6	1.0
125	125	1.4	12.4	1.8	1.1
150	160	2.2	18.0	2.2	1.2

LORO-X steel drain pipe

DN	Outer pipe dia. in mm	Pipe weight empty in kg/m	filled w/ water in kg/m	Width bet. supports in m
40	42	1.5	2.7	[1]
50	53	2.2	4.2	
70	73	3.3	7.1	
80	89	4.1	9.9	
100	102	5.8	13.3	
125	133	9.6	22.5	
150	159	11.5	30.1	
200	219	21.5	57.2	
250	273	22.5	78.5	
300	324	25.0	104.4	

Drain pipe, PE

DN	Outer pipe dia. in mm	Pipe weight empty in kg/m	filled w/ water in kg/m	Width bet. supp. 20° in m	40° in m
26	32	0.3	0.8	0.8	0.6
34	40	0.3	1.3	0.9	0.7
40	50	0.4	2.0	1.0	0.7
50	56	0.5	2.5	1.0	0.8
57	63	0.6	3.1	1.2	0.9
70	75	0.7	4.4	1.2	0.9
80	90	1.0	6.4	1.2	1.0
100	110	1.4	9.5	1.4	1.1
115	125	1.8	12.3	1.4	1.1
125	140	2.3	15.4	1.4	1.1
150	160	3.0	20.1	1.5	1.2
200	200	3.8	31.5	1.7	1.3
250	250	6.0	49.2	1.8	1.5

Drain pipe, GA, DIN 19 500

DN	Outer pipe dia. in mm	Pipe weight empty in kg/m	filled w/ water in kg/m	Width bet. supports in m
40	50	0.2	1.3	[1]
50	63	0.3	2.0	
70	75	0.5	3.9	
100	110	1.0	8.0	
125	125	1.4	12.4	
150	160	2.2	18.0	

Folded spiral-seam pipe, round, as per DIN 24145

DN	Outer pipe dia. in mm	Sheet thickness in mm	Pipe weight, empty in kg/m
71	75	0.4	0.8
80	84	0.4	0.9
90	94	0.4	1.0
100	105	0.6	1.7
112	117	0.6	1.9
125	130	0.6	2.1
140	145	0.6	2.4
150	155	0.6	2.6
160	165	0.6	2.7
180	185	0.6	3.1
200	205	0.6	3.4
224	229	0.6	3.8
250	255	0.6	4.2
280	285	0.6	4.7
300	307	0.8	5.2
315	322	0.8	7.1
355	362	0.8	8.0
400	407	0.8	9.0
450	457	0.8	10.2
500	507	0.8	11.3
560	567	0.8	12.6
600	609	1.0	13.5
630	639	1.0	17.7
710	719	1.0	20.0
800	810	1.0	22.5
900	1012	1.0	25.4
1000	1012	1.2	34.9
1120	1132	1.2	39.1
1250	1262	1.2	43.7

Note:
The values for the max. width between supports is based on the permissible sag of pipes and the corresponding recommendations from the pipe manufacturers. The permissible loads on the pipe attachments and brackets are not taken into account.

[1] approx. 1.50 m
Based on the information from the manufacturer, each section of pipe must be supported at least twice.
The relevant information from the pipe manufacturers are to be taken into account.

Technical Appendix

Dimensions and weights of ventilation ducts

Weights of galvanized ventilation ducts in kg/m without insulation

Sheet 0,75			Sheet 0.88						Sheet 1.0						Sheet 1.13						Sheet 1.25				
200	224	250	280	315	355	400	450	500	560	630	710	800	900	1000	1,120	1,250	1,400	1,600	1,800	2,000	2,240	2,500	2,800	3,150	◀ B ▼ H
6.6	7.0	7.4	9.3	10.0	10.7	11.6	12.6	13.6	16.7	18.3	20.0	22.0	24.2	26.4	32.8	36.0	39.8	44.7	49.7	54.7	70.2	77.6	86.3	96.3	200
	7.4	7.8	9.8	10.4	11.2	12.1	13.0	14.0	17.2	18.8	20.5	22.5	24.7	26.9	33.4	36.6	40.4	45.3	50.3	55.3	70.8	78.3	86.9	97.0	224
		8.3	10.3	10.9	11.7	12.6	13.6	14.5	17.8	19.4	21.1	23.1	25.3	27.5	34.1	37.3	41.0	46.0	51.0	55.9	71.6	79.1	87.7	97.8	250
			10.8	11.5	12.3	13.2	14.1	15.1	18.5	20.0	21.8	23.8	26.0	28.2	34.8	38.0	41.8	46.7	51.7	56.7	72.5	79.9	88.6	98.6	280
				12.2	13.0	13.8	14.8	15.8	19.3	20.8	22.6	24.5	26.7	28.9	35.7	38.9	42.6	47.6	52.6	57.6	73.5	80.9	89.6	99.6	315
					13.7	14.6	15.6	16.6	20.1	21.7	23.4	25.4	27.6	29.8	36.7	39.9	43.6	48.6	53.6	58.5	74.6	82.1	90.7	100.8	355
						15.5	16.5	17.4	21.1	22.7	24.4	26.4	28.6	30.8	37.8	41.0	44.7	49.7	54.7	59.7	75.9	83.4	92.0	102.1	400
							17.4	18.4	22.2	23.8	25.5	27.5	29.7	31.9	39.0	42.3	46.0	51.0	55.9	60.9	77.3	84.8	93.4	103.5	450
								19.4	23.3	24.9	26.6	28.6	30.8	33.0	40.3	43.5	47.2	52.2	57.2	62.2	78.8	86.3	94.9	104.9	500
									24.6	26.2	27.9	29.9	32.1	34.3	41.8	45.0	48.7	53.7	58.7	63.6	80.5	88.0	96.6	106.7	560
										27.7	29.5	31.5	33.7	35.9	43.5	46.7	50.5	55.4	60.4	65.4	82.5	90.0	98.6	108.7	630
											31.2	33.2	35.4	37.6	45.5	48.7	52.5	57.4	62.4	67.4	84.8	92.3	100.9	111.0	710
												35.2	37.4	39.6	47.7	51.0	54.7	59.7	64.6	69.6	87.4	94.9	103.5	113.6	800
													39.6	41.8	50.2	53.4	57.2	62.2	67.1	72.1	90.3	97.8	106.4	116.4	900
														44.0	52.7	55.9	59.7	64.6	69.6	74.6	93.2	100.6	109.3	119.3	1000
															55.7	58.9	62.6	67.6	72.8	77.6	96.6	104.1	112.7	122.8	1120
																62.2	65.9	70.9	75.8	80.8	100.3	107.8	116.4	126.5	1250
																	69.6	74.6	79.6	84.5	104.7	112.1	120.8	130.8	1400
																		79.6	84.5	89.5	110.4	117.9	126.5	136.6	1600
																			89.5	94.5	116.2	123.6	132.3	142.3	1800
																				99.4	121.9	129.4	138.0	148.1	2000
																					128.8	136.3	144.9	155.0	2240
																						143.8	152.4	162.4	2500
																							161.0	171.1	2800
																								181.1	3150

Orientation weights of galvanized ventilation ducts in kg/m with insulation[1)]

Sheet 0.75			Sheet 0.88						Sheet 1.0						Sheet 1.13						Sheet 1.25				
200	224	250	280	315	355	400	450	500	560	630	710	800	900	1000	1,120	1,250	1,400	1,600	1,800	2,000	2,240	2,500	2,800	3,150	◀ B ▼ H
29,0	30,7	32,6	32,9	35,3	38,0	41,1	44,5	48,0	52,1	56,9	62,3	68,5	75,4	82,2	85,1	93,5	103,2	116,1	129,0	141,9	161,3	178,5	198,3	221,4	200
	32,5	34,4	34,5	36,9	39,7	42,7	46,2	49,6	53,7	58,5	64,0	70,1	77,0	83,8	86,7	95,1	104,7	117,6	130,5	143,4	162,9	180,1	199,9	223,0	224
		36,3	36,3	38,7	41,4	44,5	48,0	51,4	55,5	60,3	65,8	71,9	78,8	85,6	88,4	96,8	106,4	119,3	132,2	145,1	164,6	181,8	201,6	224,7	250
			38,4	40,8	43,5	46,6	50,0	53,4	57,5	62,3	67,8	74,0	80,8	87,7	90,3	98,7	108,4	121,3	134,2	147,1	166,6	183,8	203,6	226,7	280
				43,2	45,9	49,0	52,4	55,8	59,9	64,7	70,2	76,4	83,2	90,1	92,6	100,9	110,6	123,5	136,4	149,3	168,9	186,1	205,9	229,0	315
					48,6	51,7	55,1	58,6	62,7	67,5	73,0	79,1	86,0	92,8	95,1	103,5	113,2	126,1	139,0	151,9	171,5	188,7	208,5	231,7	355
						54,8	58,2	61,7	65,8	70,6	76,0	82,2	89,1	95,9	98,0	106,4	116,1	129,0	141,9	154,8	174,5	191,7	211,5	234,7	400
							61,7	65,1	69,2	74,0	79,5	85,6	92,5	99,3	101,3	109,7	119,3	132,2	145,1	158,0	177,8	195,0	214,8	238,0	450
								68,5	72,6	77,4	82,9	89,1	95,9	102,8	104,5	112,9	122,6	135,5	148,4	161,3	181,1	198,3	218,1	241,3	500
									76,7	81,5	87,0	93,2	100,0	106,9	108,4	116,7	126,4	139,3	152,2	165,1	185,1	202,3	222,1	245,2	560
										86,3	91,8	98,0	104,8	111,7	112,9	121,3	130,9	143,8	156,7	169,6	189,7	206,9	226,7	249,9	630
											97,3	103,4	110,3	117,1	118,0	126,4	136,1	149,0	161,9	174,8	195,0	212,2	232,0	255,1	710
												109,6	116,5	123,3	123,8	132,2	141,9	154,8	167,7	180,6	200,9	218,1	238,0	261,1	800
													123,3	130,2	130,3	138,7	148,4	161,3	174,2	187,1	207,6	224,7	244,6	267,7	900
														137,0	136,7	145,1	154,8	167,7	180,6	193,5	214,2	231,4	251,2	274,3	1000
															144,5	152,9	162,5	175,4	188,3	201,2	222,1	239,3	259,1	282,2	1120
																161,3	170,9	183,8	196,7	209,6	230,7	247,9	267,7	290,8	1250
																	180,6	193,5	206,4	219,3	240,6	257,8	277,6	300,8	1400
																		206,4	219,3	232,2	253,8	271,0	290,8	314,0	1600
																			232,2	245,1	267,0	284,2	304,1	327,2	1800
																				258,0	280,3	297,5	317,3	340,4	2000
																					296,1	313,3	333,1	356,3	2240
																						330,5	350,3	373,5	2500
																							370,2	393,3	2800
																								416,4	3150

The weights listed above are reference values. The weights may vary depending on the sheet thickness and type of flange used.

1) Insulation from heat insulation plates for high-temperature or fire-resistant inserts, e.g.:

A Insulation example: Make: Promaclad -900 and -1050 or equivalent
- Gross density: ρ ~ 350 kg/m³ (350 – 450 kg/m³, dependent on plate thickness)
- Insulation thickness: s ~ 60 mm (plate thickness 18 – 80 mm)

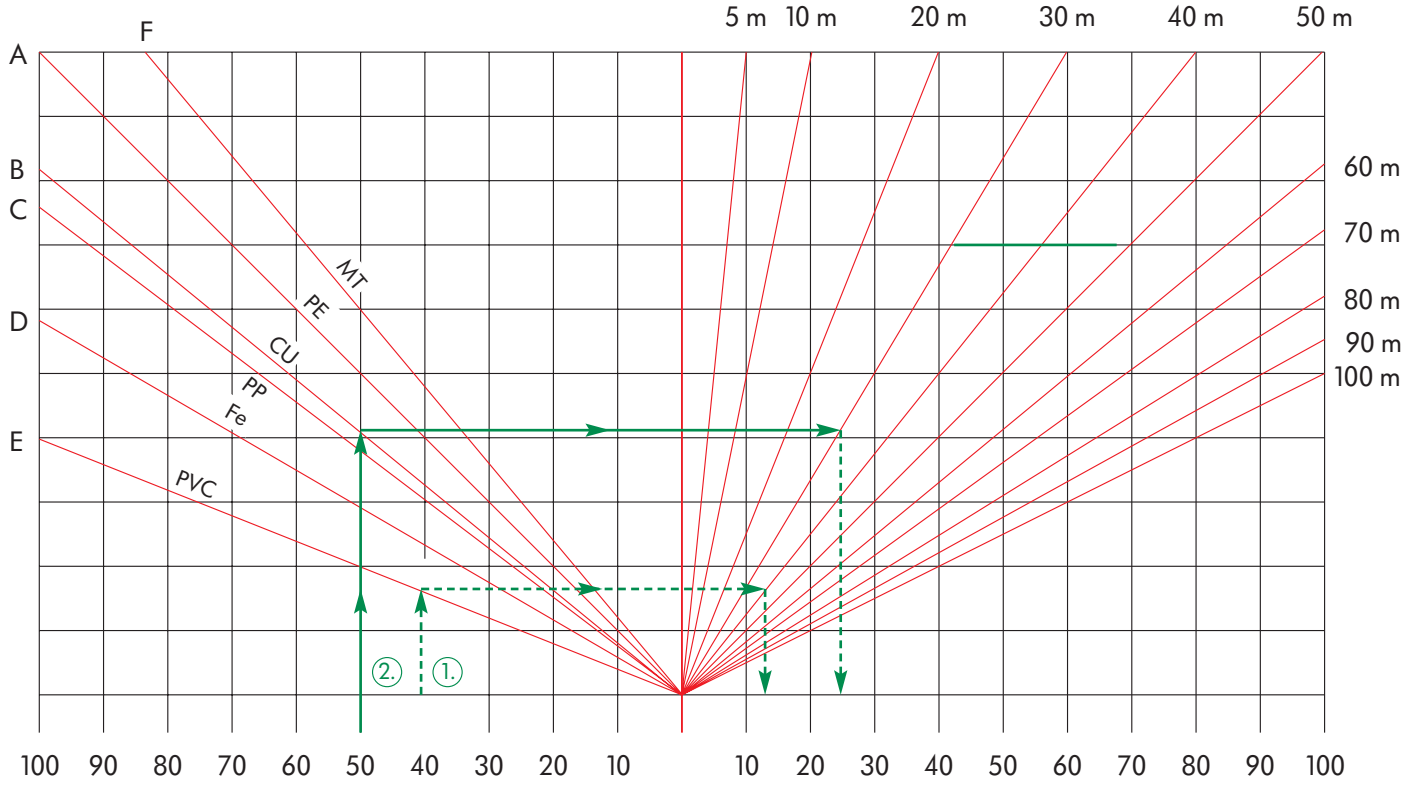
B Insulation example: Make: Promaclad -1100 or equivalent
- Gross density: ρ ~ 600 kg/m³
- Insulation thickness: s ~ 30 mm (plate thickness 15 – 60 mm)

Note: Information from the manufacturer must be observed!

Technical Appendix

Pipe material expansion diagram

Metals and plastics contract when cold and expand when hot. This physical factor must be taken into account for pipelines used in heating applications that are subjected to constant temperature fluctuations caused by thermostat adjustment. Tensional forces are prevented through the use of suitable pipe attachments that can oscillate or shift.



A = PE 0.2 [mm/mK] x 10*
B = Cu 0.0165 [mm/mK]
C = PP 0.15 [mm/mK] x 10*
D = Fe 0.0115 [mm/mK]
E = PVC 0.08 [mm/mK] x 10*
F = MT 0.024 [mm/mK]

Example:

1. Copper pipe, Cu, length of the pipe section: 30 m
   Temperature differential Δ T = 50 K
   Length expansion Δ L = 24.75 mm

2. PVC pipe, length of the pipe section: L = 40 m
   Temperature differential T = 40 K
   Length expansion L = 128 mm
   (table value x 10)

Attention!

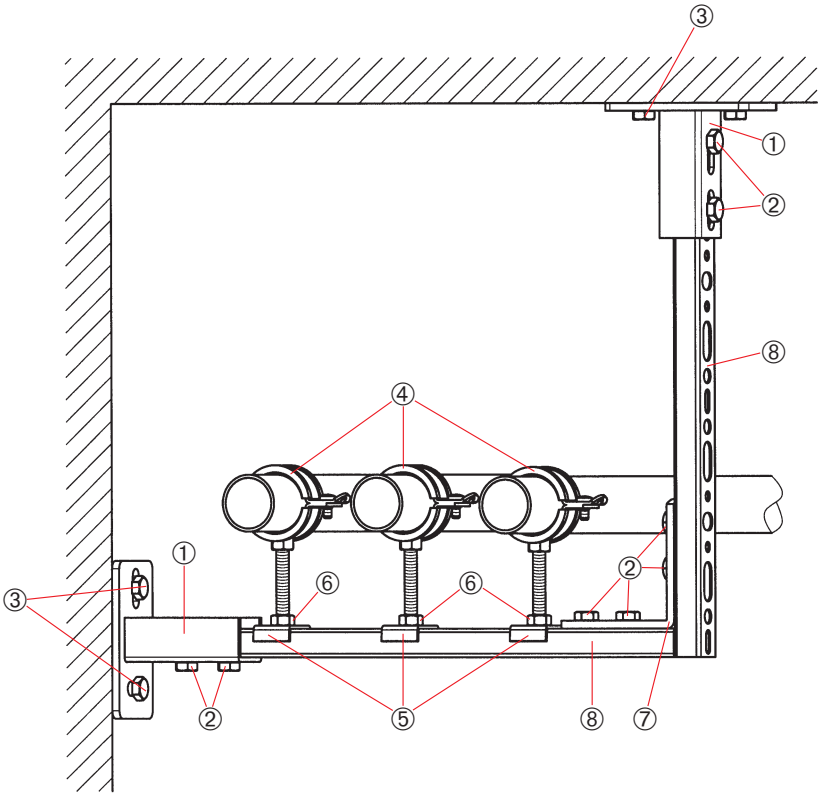
* The value found in the length expansion diagram is to be multiplied by ten for the specified PE, PP and PVC plastic pipes.

Length expansion calculation formula

$$\Delta L = L \cdot \Delta T \cdot \alpha$$
[mm] [m] [K] [mm/mK]

Δ L = length expansion
L = length of the pipe section
Δ T = temperature differential
α = length-expansion coefficient

Wall and Ceiling Attachments



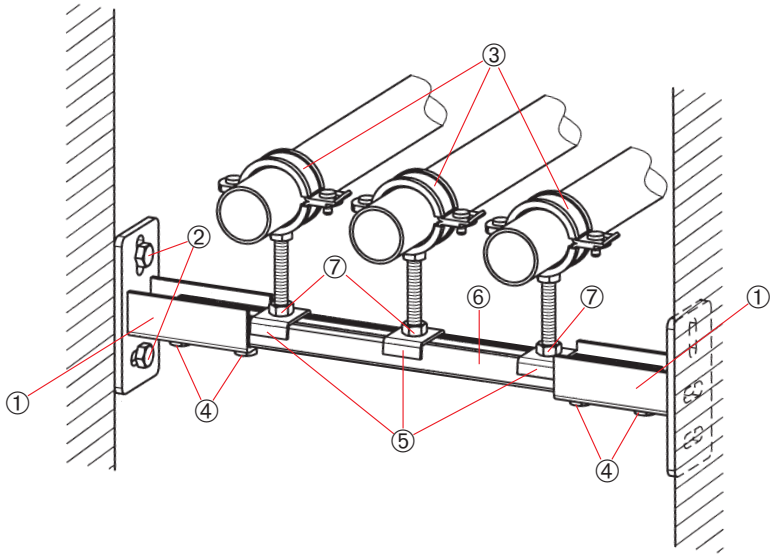
Wall and ceiling connection

No.	Designation
①	Profile base
②	Hammer-head screw
③	Securing screw * with drive-in anchor **
④	Pipe clamps
⑤	Retaining clip
⑥	Hammer-head screw or threaded rod with sliding nut
⑦	Connection bracket, 90°
⑧	Mounting rail

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

Note

Use profile base when applying greater loads and for clamp constructions in shafts and ducts.

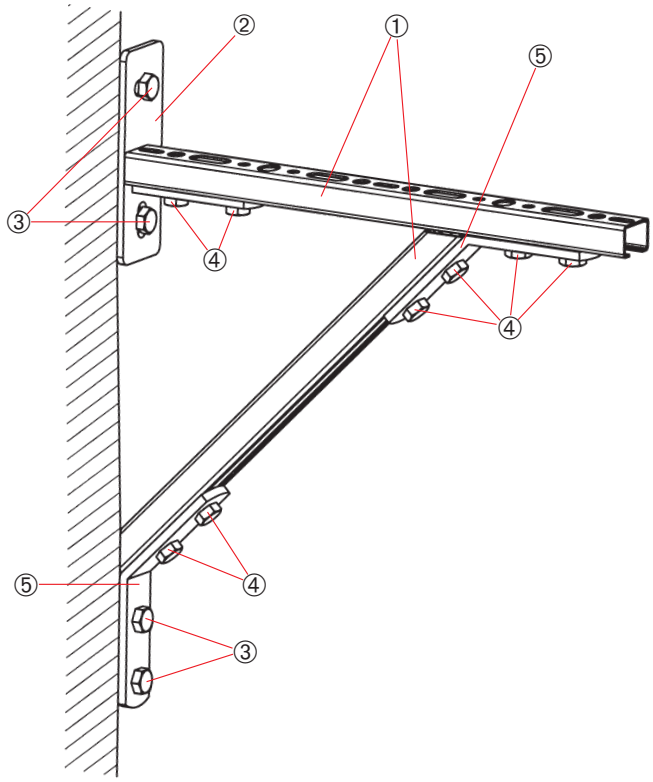


Clamped attachment in ducts or shafts

No.	Designation
①	Profile base
②	Securing screw * with drive-in anchor **
③	Pipe clamps
④	Hammer-head screw
⑤	Retaining clip
⑥	Mounting rail
⑦	Hammer-head screw

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

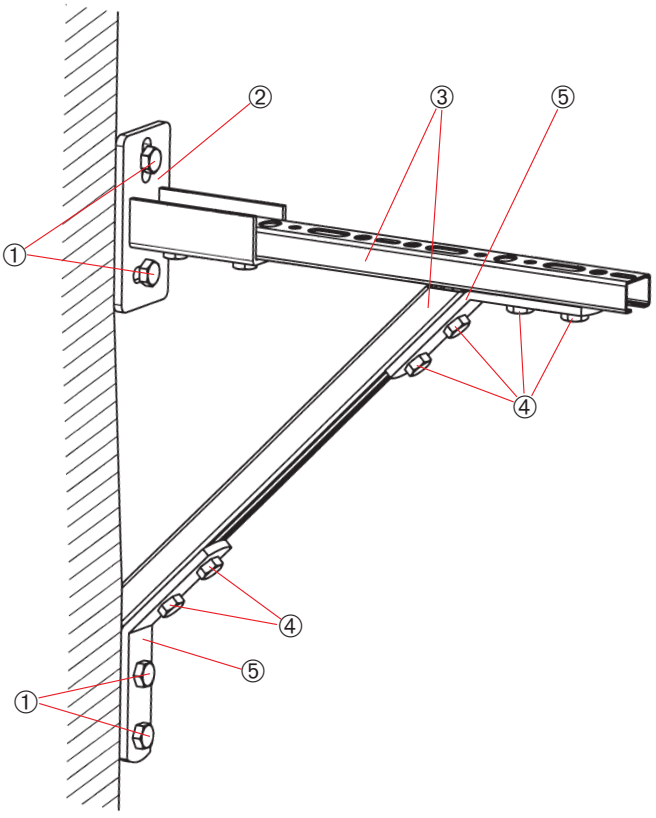
Wall Connection with Bracket Constructions



Wall connection with end connector

No.	Designation
①	C-mounting rail
②	End bracket
③	Securing screw * with drive-in anchor **
④	Premounted hammer-head screw
⑤	Connection bracket, 45°

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46



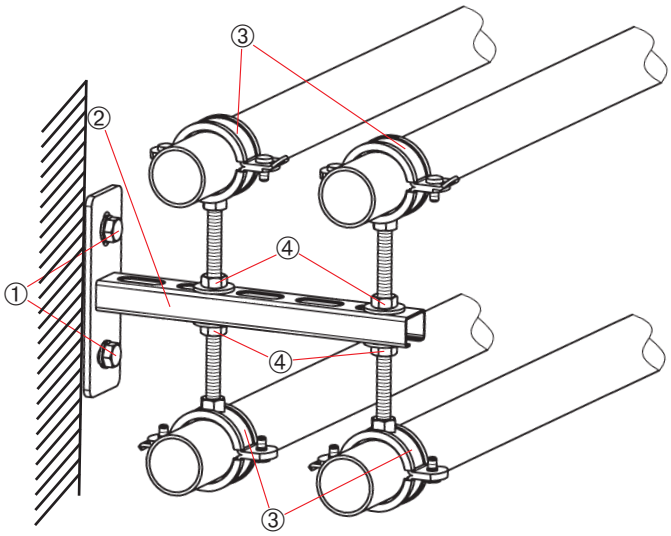
Wall connection with profile base

No.	Designation
①	Securing screw with impact anchor
②	Profile base
③	C-mounting rail
④	Premounted hammer-head screw
⑤	Connection bracket, 45°

Note

Wall bracket constructions are ideally suited toward attached mounting, as flexible adaptation is possible, e.g. with air heaters, fans, transformers etc.

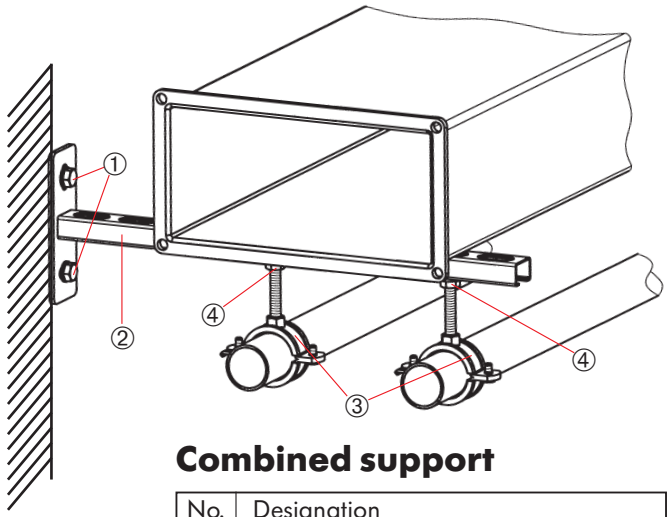
Bracket Mounting



Two-piece pipe support

No.	Designation
①	Securing screw * with drive-in anchor **
②	Bracket
③	Pipe clamps
④	Hammer-head screw

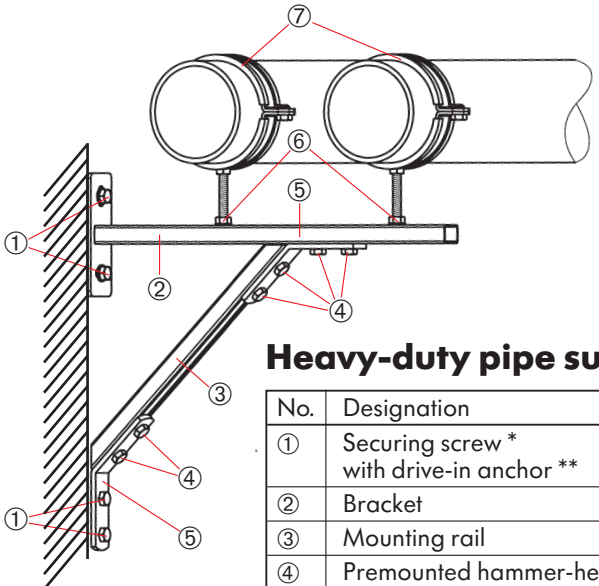
* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46



Combined support

No.	Designation
①	Securing screw * with drive-in anchor **
②	Bracket
③	Pipe clamps
④	Hammer-head screw

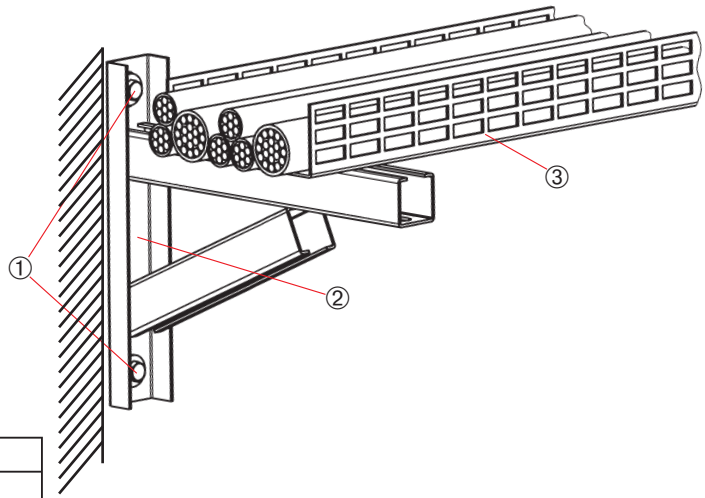
* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46



Heavy-duty pipe support

No.	Designation
①	Securing screw * with drive-in anchor **
②	Bracket
③	Mounting rail
④	Premounted hammer-head screws
⑤	Connection bracket, 45°
⑥	Hammer-head screw
⑦	Pipe clamp

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

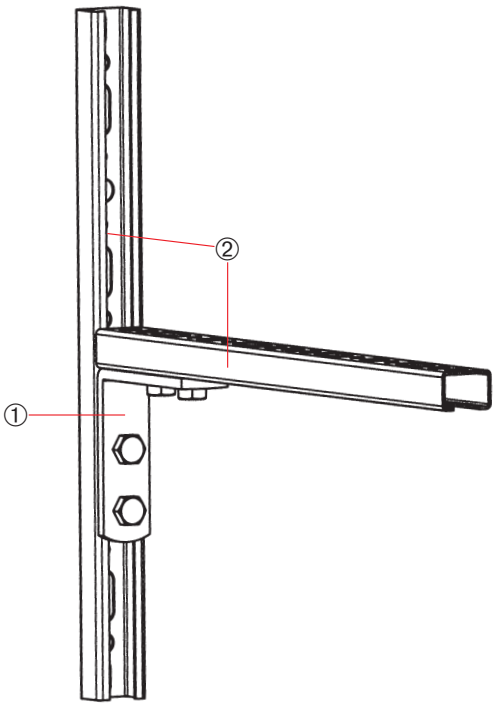


Heavy-duty line routing duct mounting

No.	Designation
①	Securing screw * with drive-in anchor **
②	Bracket, heavy-duty
③	Line routing duct

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

Rail Joints

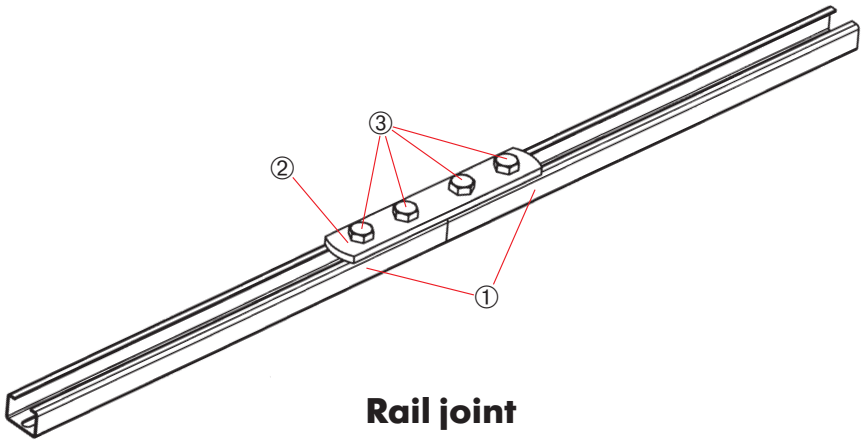


Note

Used for quick rail and bracket attachment.

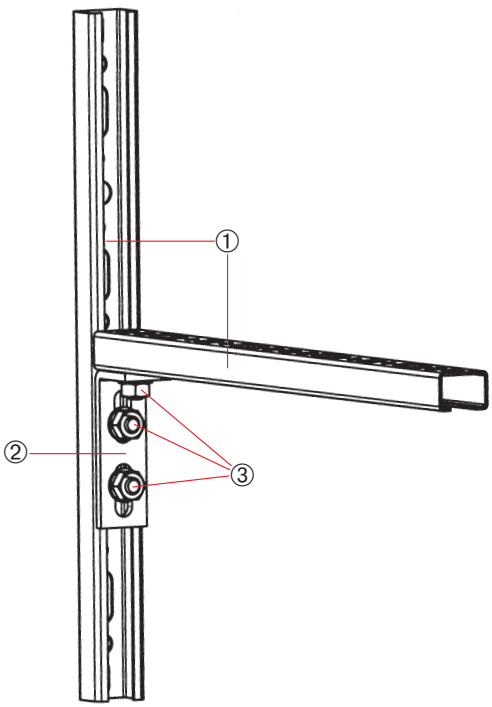
Bracket attachment

No.	Designation
①	Conn. bracket, 90°, premounted
②	C-mounting rail



Rail joint

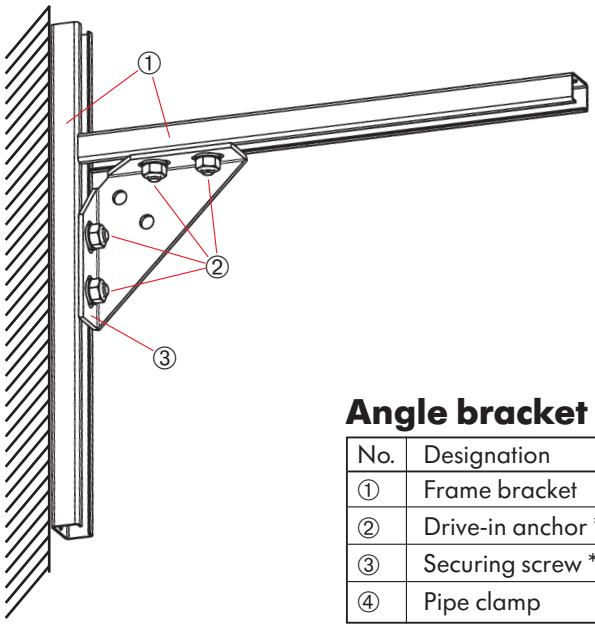
No.	Designation
①	C-mounting rail
②	Rail joiner
③	Hammer-head screws



Bracket connection

No.	Designation
①	C-mounting rail
②	Connection bracket
③	Hammer-head screws

Corner Connections



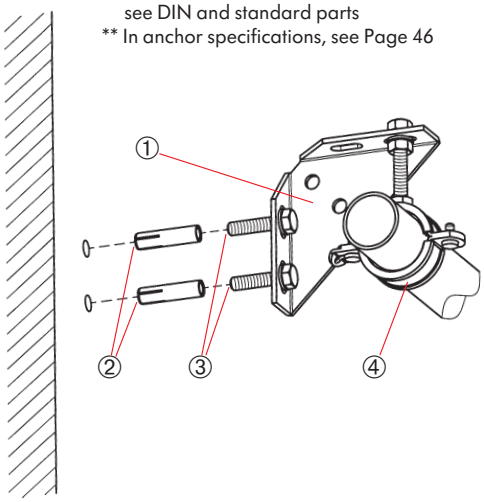
Heavy-duty corner connections

No.	Designation
①	C-mounting rail
②	Hammer-head screws
③	Frame bracket

Angle bracket

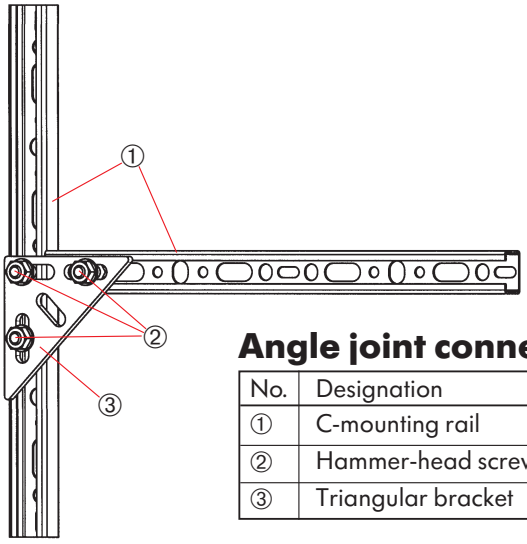
No.	Designation
①	Frame bracket
②	Drive-in anchor **
③	Securing screw *
④	Pipe clamp

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46



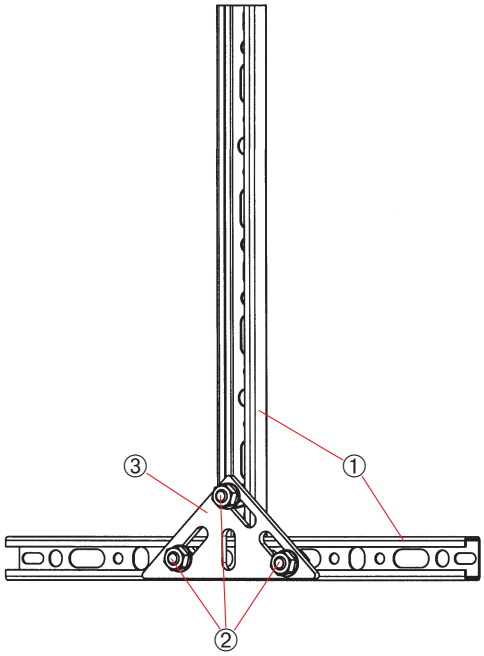
Base joint connection

No.	Designation
①	C-mounting rail
②	Hammer-head screws
③	Triangular bracket

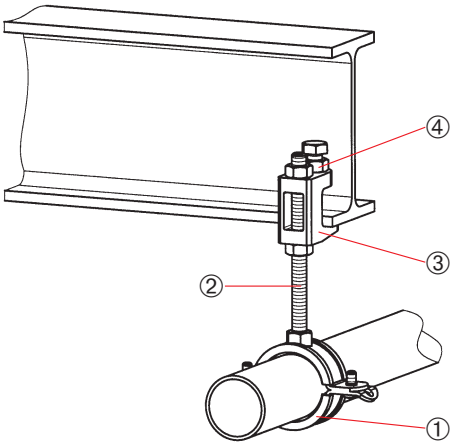


Angle joint connection

No.	Designation
①	C-mounting rail
②	Hammer-head screws
③	Triangular bracket



Beam Connection via Beam Clamps

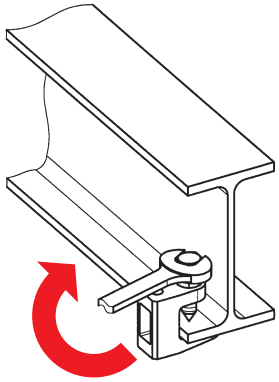


Through-bolt mounting

No.	Designation
①	Pipe clamp
②	Threaded rod
③	Beam clamp
④	Adjustment screw

Note

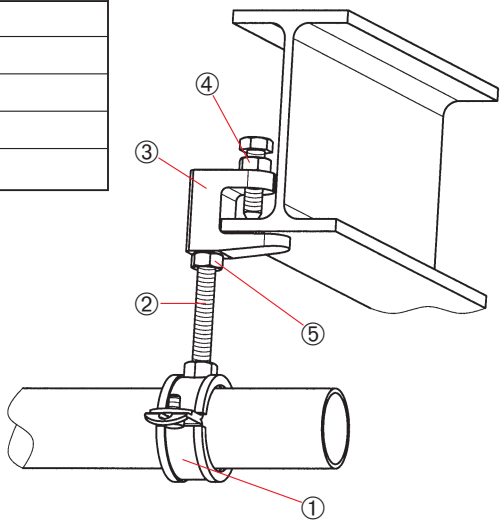
Please comply with tightening torque.
1. ➔ Turning the adjustment screw
2. ➔ Tightening
   min. 1/2 rotation
   max. 1 rotation of the adjustment screw.

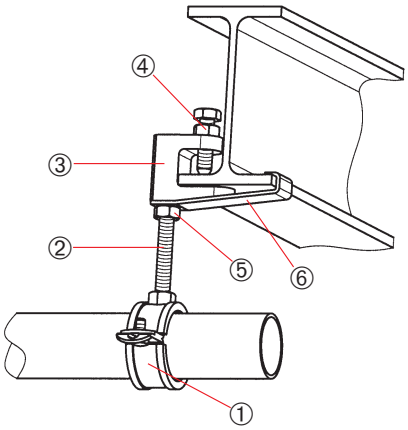


Screw connection

No.	Designation
①	Pipe clamp
②	Threaded rod
③	Beam clamp
④	Adjustment screw
⑤	Lock nut *

* For additional information, see DIN and standard parts

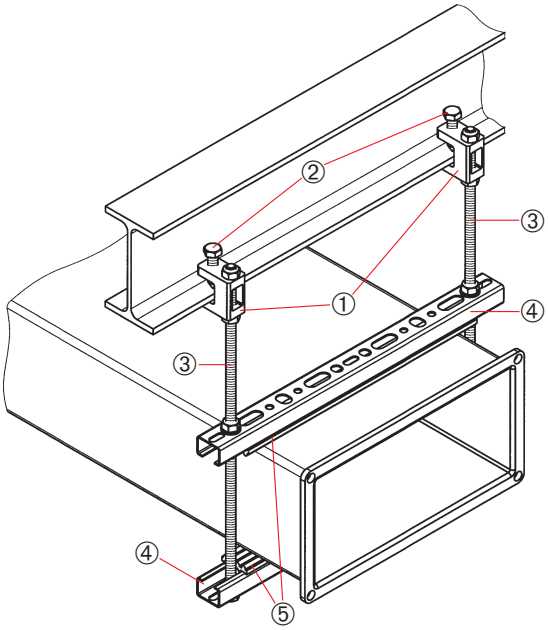




Sprinkler mounting with VDS safety strap

No.	Designation
①	Pipe clamp
②	Threaded rod
③	Beam clamp
④	Adjustment screw
⑤	Lock nut *
⑥	Safety strap

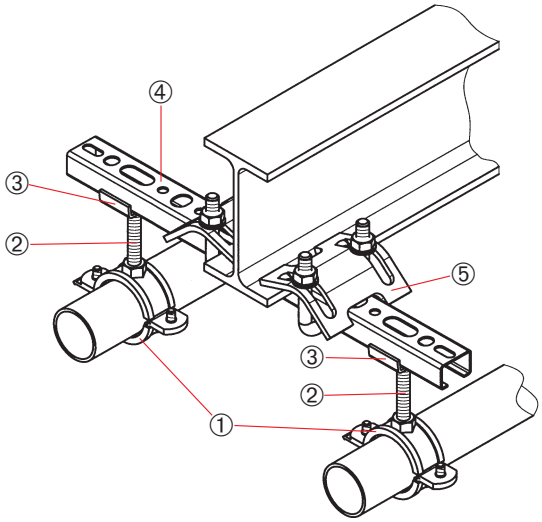
* For additional information, see DIN and standard parts



Duct mounting on beam

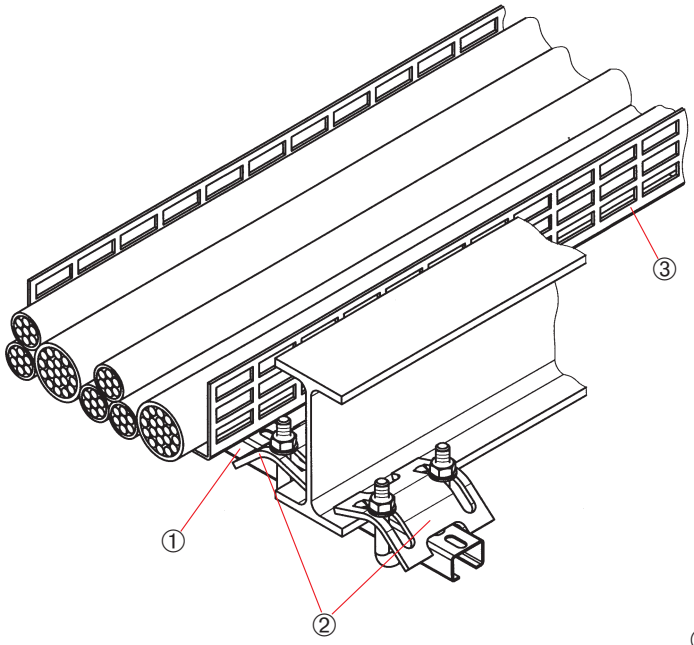
No.	Designation
①	Beam clamp
②	Adjustment screw
③	Threaded rod
④	Mounting rail
⑤	Insulation profile for mounting rail

Beam Connection with Tensioning Clamp



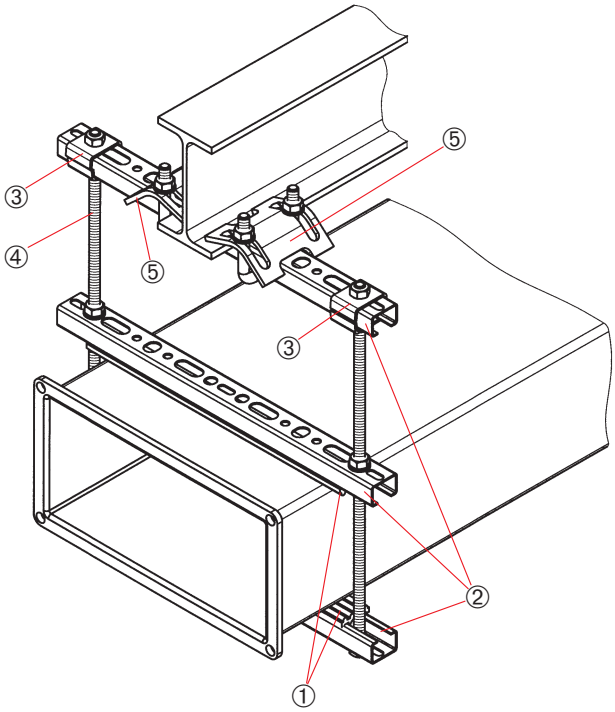
Beam connection for pipe mounting

No.	Designation
①	Pipe clamps
②	Hammer-head screw
③	Retaining clip
④	Mounting rail
⑤	Tensioning clamp



Beam connection for cable routes

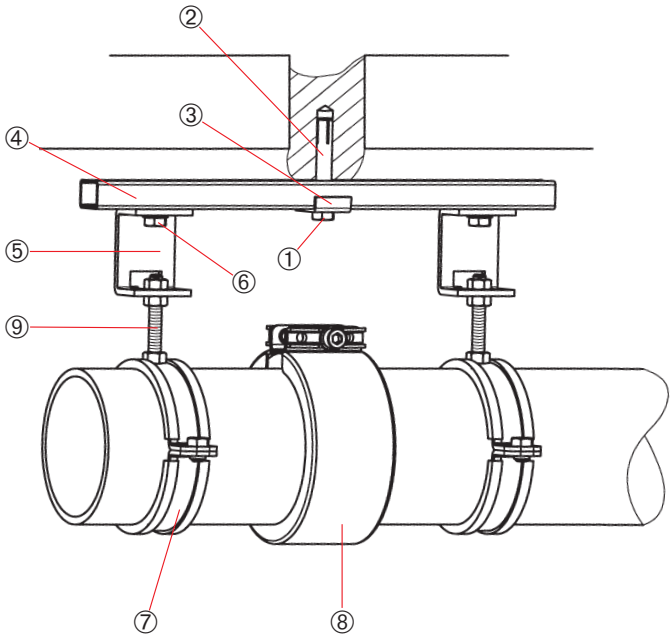
No.	Designation
①	C-mounting rail
②	Tensioning clamp
③	Cable route



Beam connection for duct mounting

No.	Designation
①	Insulation profile
②	Mounting rail
③	Retaining clip
④	Threaded rod
⑤	Tensioning clamp

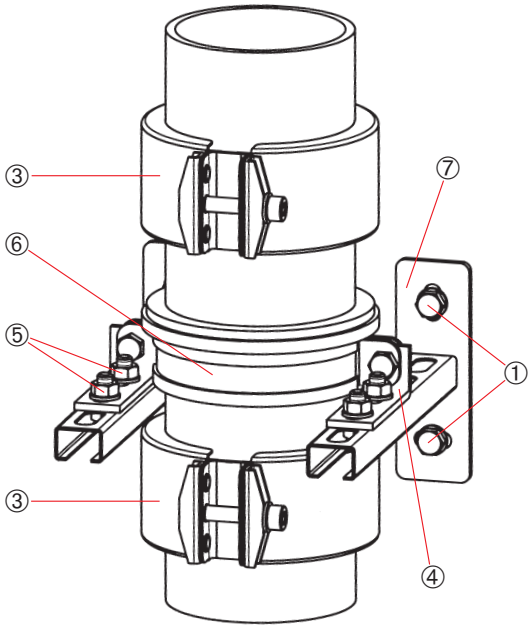
Fixed-Position Mounting



Attachment of SML pipe connectors

No.	Designation
①	Securing screw *
②	Drive-in anchor **
③	Retaining clip
④	C-mounting rail
⑤	Vertical adjustment piece
⑥	Hammer-head screw
⑦	Pipe clamp
⑧	SML connector
⑨	Threaded rod

* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

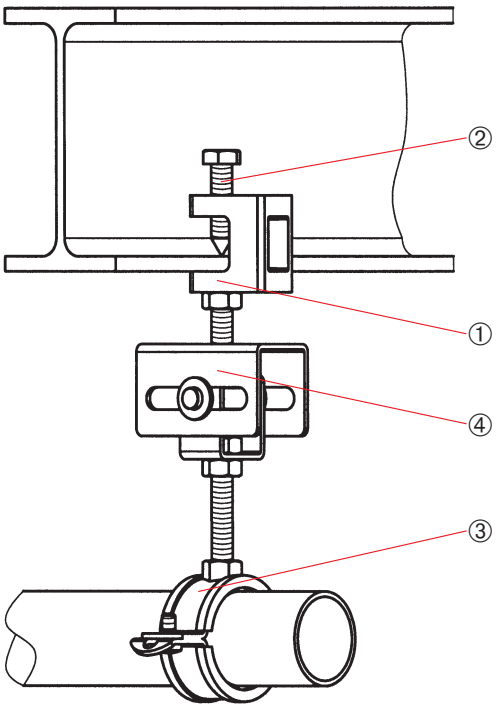


Downpipe support

No.	Designation
①	Securing screw * with drive-in anchor **
②	Bracket
③	SML connector
④	Connection bracket, 90°
⑤	Hammer-head screws
⑥	Pipe clamp

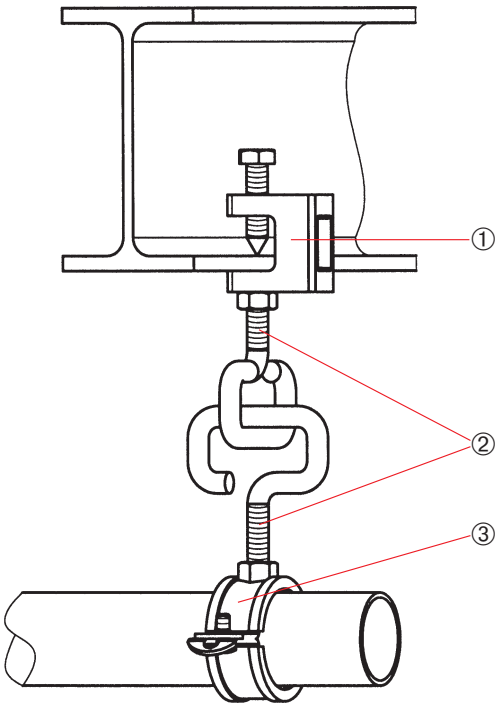
* For additional information, see DIN and standard parts
** In anchor specifications, see Page 46

Sliding Element Mounting



Medium-load attachment with sliding piece

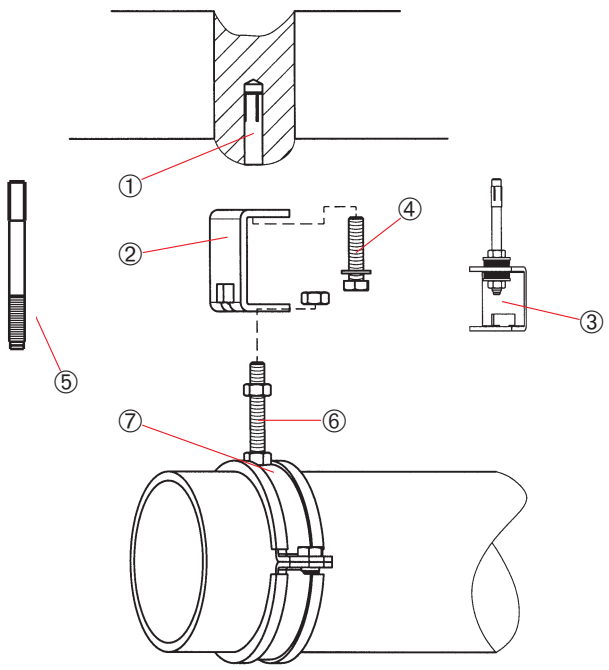
No.	Designation
①	Beam clamps
②	Adjustment screw
③	Pipe clamp
④	Sliding piece



Light-load attachment with sliding hook

No.	Designation
①	Beam clamps
②	Sliding hook
③	Pipe clamp

Height Adjustment (Level Adjustment)



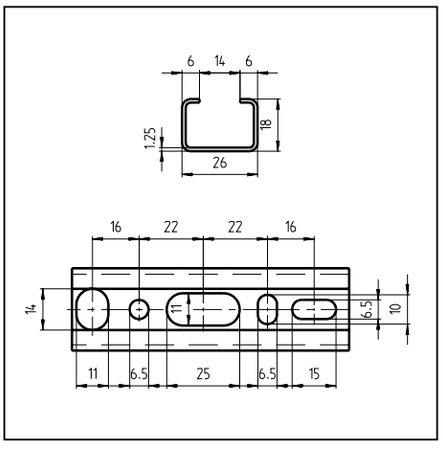
Incline adjustment of waste water pipes

No.	Designation
①	Drive-in anchor **
②	Vertical adjustment piece
③	WSS 2/L-35 **
④	Securing screw*
⑤	Fixing anchor W-FAZ
⑥	Threaded rod
⑦	Pipe clamp

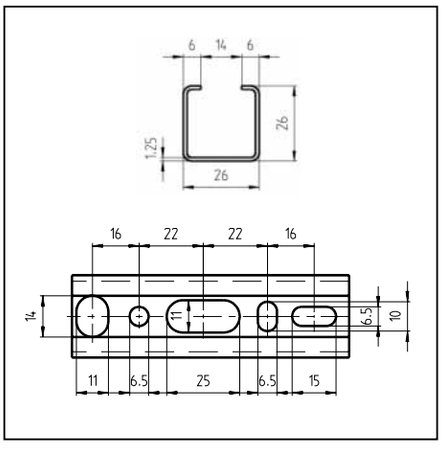
* For additional information, see DIN and standard parts
** In anchor specifications, see Pages 32, 46 and 70

Varifix® C-Mounting Rail

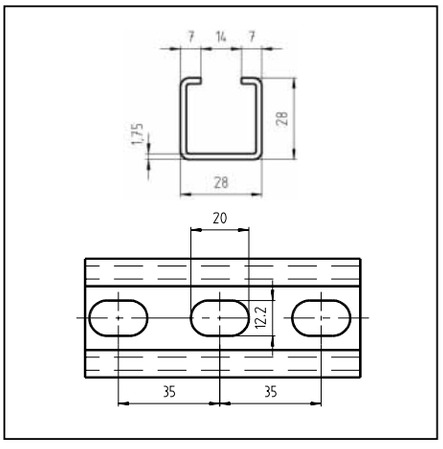
- Fire Protection Test Report MPA Braunschweig No. 3030/3032-2 for mounting rails 41/41, 41/62 and 41/124.
- The right mounting rail for every application.
- Various mounting options with extensive system components.
- Visually clean solution with no sharp edges thanks to the use of cover caps.
- Lateral graduation lines for easier alignment of the mounting rails.
- Noise insulation elements for every rail size.
- High load-bearing capacity of the individual mounting rails thanks to favourable profile cross-sections.
- Calculation, incl. static proof and anchor design via Varifix® software.
- "Fire-strip galvanised" (sendzimir galvanised) 20 µm.
- Not suitable for use outdoors.
- Please select the stainless-steel range for outdoor mounting.



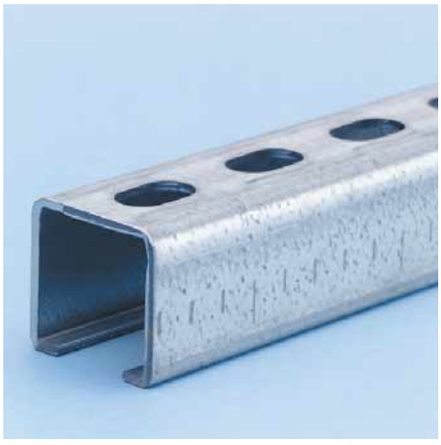
Rail profile	Length in mm	Art. No.	P. Qty. in m
26/18/1.25	2000	**0862 001 001**	10
	3000	**0862 001 221**	15

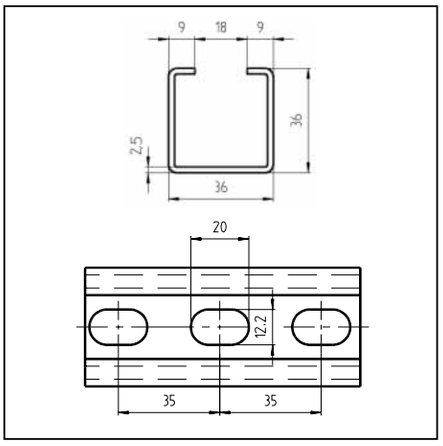


Rail profile	Length in mm	Art. No.	P. Qty. in m
26/26/1.25	2000	**0862 001 002**	10
	3000	**0862 001 222**	15



Rail profile	Length in mm	Art. No.	P. Qty. in m
28/28/1.75	2000	**0862 001 003**	10
	3000	**0862 001 223**	15

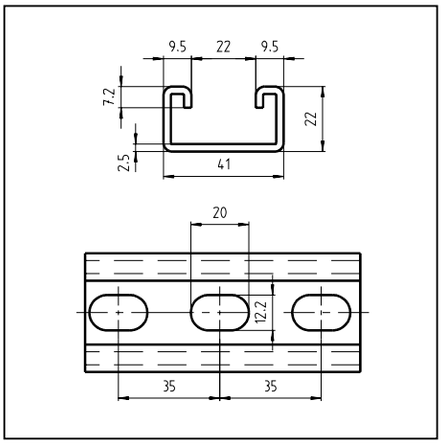




Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
36/36/2.5	2000	**0862 001 004**	10
	3000	**0862 001 224**	15
	6000	**0862 001 230**	24

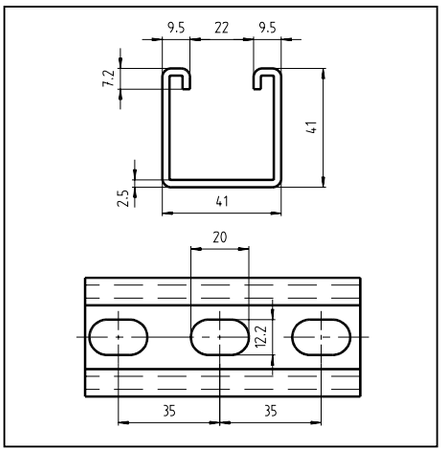
Hot galvanised model

Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
36/36/2.5	6000	**0862 001 438**	24



Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
41/22/2.5	2000	**0862 001 005**	10
	3000	**0862 001 225**	15
	6000	**0862 001 229**	24

Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
41/22/1.8	3000	**0862 001 233**	15
	6000	**0862 001 235**	24



Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
41/41/2.5	2000	**0862 001 006**	10
	3000	**0862 001 226**	15
	6000	**0862 001 231**	24

Fire-protection test examination report No. 3030/3032-2

Fire-protection tested mounting pursuant to the requirements of MLAR 03/2000:

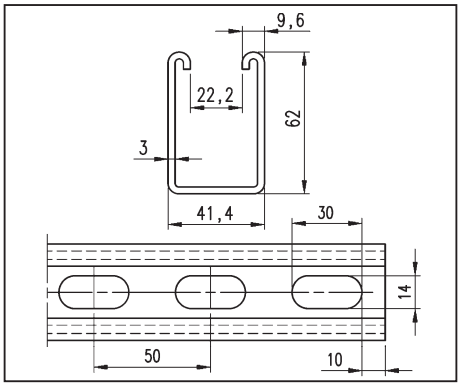
Requirements of the directive: The structural integrity and deformation characteristics of support systems for pipeline systems must be proven via fire testing (F30 applications). This applies for required stairways and hallways with or without F30 joist constructions.

Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
41/41/1.8	2000	**0862 001 007**	10
	3000	**0862 001 227**	15
	6000	**0862 001 237**	24

Drawing available on request

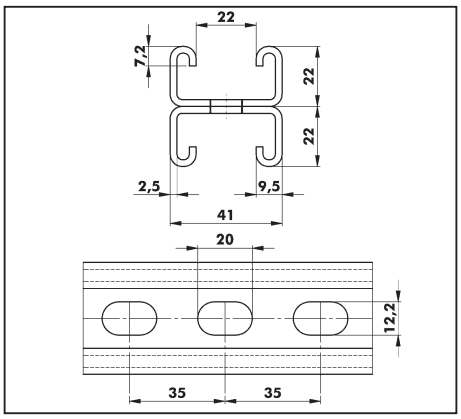
Hot galvanised model

Rail profile	Length in mm	**Art. No.**	P. Qty. /in m
41/41/2.5	6000	**0862 001 443**	24

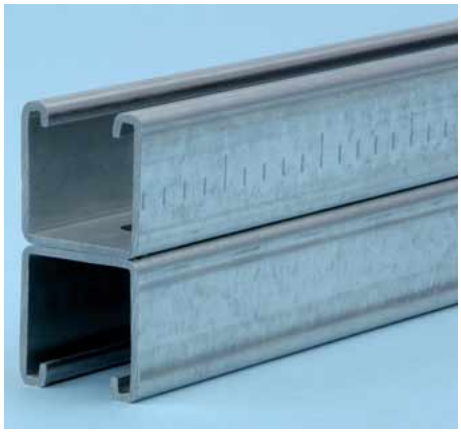


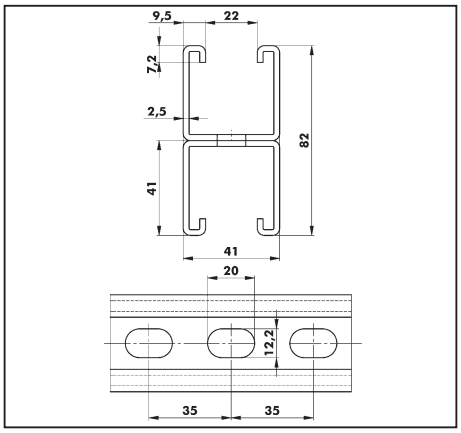
Rail profile	Length in mm	Art. No.	P. Qty. /in m
41/62/3.0	6,000	**0862 001 232**	12

Fire-protection test examination report No. 3030/3032-2



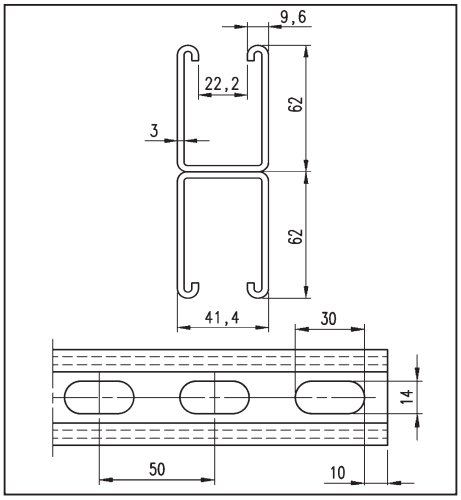
Rail profile	Length in mm	Art. No.	P. Qty. /in m
41/44/2.5	3,000	**0862 001 050**	12
	6,000	**0862 001 051**	24





Rail profile	Length in mm	Art. No.	P. Qty. /in m
41/82/2.5	3,000	**0862 001 236**	12
	6,000	**0862 001 239**	24

Fire-protection test examination report No. 3030/3032-2



Rail profile	Length in mm	Art. No.	P. Qty. /in m
41/124/3.0	6,000	**0862 001 234**	12

Fire-protection test examination report No. 3030/3032-2

Fire-protection tested mounting pursuant to the requirements of MLAR 03/2000:

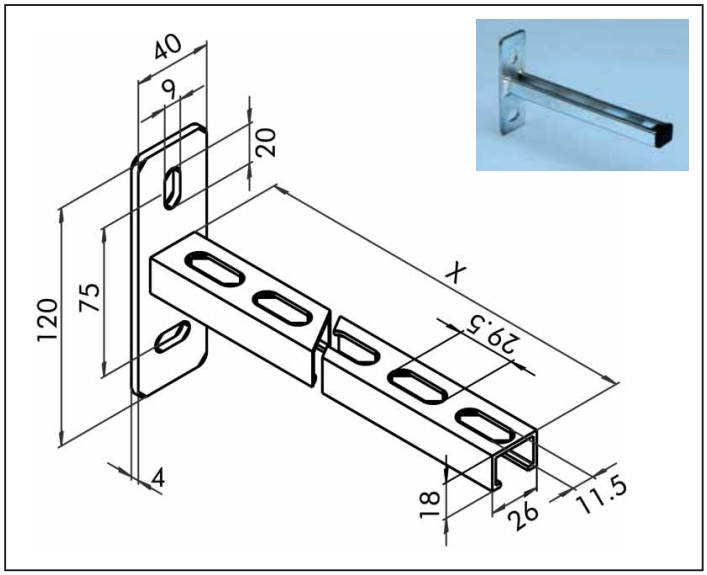
Requirements of the directive: The structural integrity and deformation characteristics of support systems for pipeline systems must be proven via fire testing (F30 applications). This applies for required stairways and hallways with or without F30 joist constructions.

Varifix® Mounting Rails

Technical data

Profile in mm	Profile weight in kg/m	Profile cross-section in cm^2	Moment of inertia Iy in cm^4	 Iz in cm^4	Section modulus Wy in cm^3	 Wz in cm^3
26 / 18 / 1.25	0.64	0.82	0.35	0.86	0.33	0.66
26 / 26 / 1.25	0.79	1.02	0.88	1.17	0.58	0.90
28 / 28 / 1.75	1.17	1.70	1.63	2.14	1.01	1.53
36 / 36 / 2.50	2.16	2.85	4.76	5.81	2.38	3.23
41 / 22 / 2.50	1.90	2.36	1.42	5.48	1.09	2.67
41 / 41 / 1.80	1.96	2.50	5.61	6.98	2.47	3.40
41 / 41 / 2.50	2.65	3.31	7.03	9.00	3.05	4.39
41 / 62 / 3.00	4.03	5.19	23.63	15.25	6.96	7.09
41 / 62 / double	8.05	10.39	128.98	30.94	20.80	14.17

MWF - 09/04 - 05884 - ©

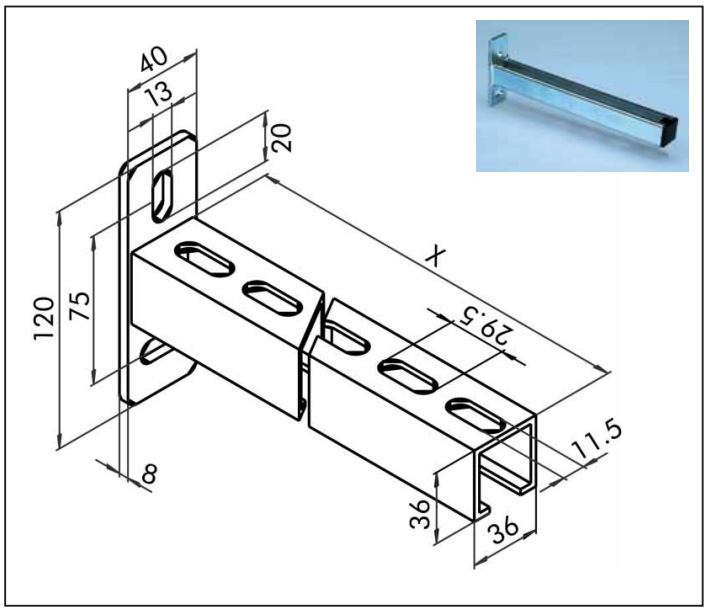


Varifix® Bracket 26/18

- Universally usable wall bracket for mounting piping etc.
- For suitable accessories see Varifix-C rail type 26/18.
- Varifix rail end plug included.
- Units with clamping amplitude ≤ 26 N/mm².
- For outdoor use, please select our stainless-steel range.

* not suitable for outdoor use

Bracket		Load case					Weight	P. Qty.	Art. No.
Model length	Effective length X	q	F_1	F_1	F_2 F_2	F_3 F_3 F_3			electro-galv.*
		Perm. loading							
in mm	in mm	in kN/m	in kN	in kN	in kN	in kN	in kg/pc.	in Pc.	
200	204	1.55	0.31	0.15	0.15	0.10	0.23	1	**0862 009 001**
300	204	0.69	0.21	0.10	0.10	0.07	0.30	1	**0862 009 002**



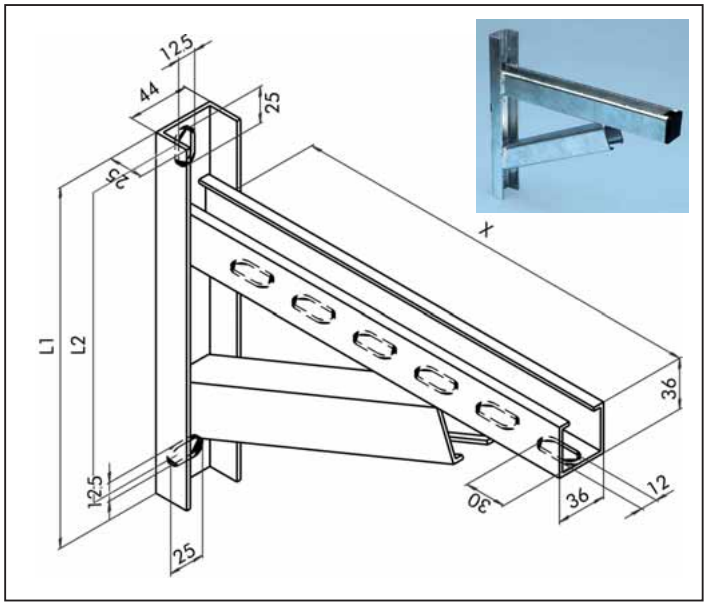
Varifix® Bracket 36/36

- Universal wall bracket for mounting piping, units etc.
- For suitable accessories see Varifix-C rail type 36/36.
- Varifix rail end plug included.
- Units with clamping amplitude ≤ 26 N/mm².
- For outdoor use, please select our stainless-steel range.

Fire-protection test examination report No. 3030/3032-2

* not suitable for outdoor use

Bracket		Load case					Weight	P. Qty.	Art. No.
Model length	Effective length X	q	F_1	F_1	F_2 F_2	F_3 F_3 F_3			electro-galv.*
		Perm. loading							
in mm	in mm	in kN/m	in kN	in kN	in kN	in kN	in kg/pc.	in Pc.	
200	208	15.48	3.10	1.55	1.55	1.03	0.76	1	**0862 009 019**
300	308	6.88	2.06	1.03	1.03	0.69	0.80	1	**0862 009 020**
400	408	3.87	1.55	0.77	0.77	0.52	0.88	1	**0862 009 021**
500	508	2.48	1.24	0.62	0.62	0.41	1.18	1	**0862 009 022**
600	608	1.72	1.03	0.52	0.52	0.34	1.38	1	**0862 009 023**



Varifix® Heavy Bracket

- Universally usable wall bracket for mounting piping.
- For suitable accessories see Varifix-C rail type 36/36.
- Varifix rail end plug included.
- Units with clamping amplitude ≤ 26 N/mm².

Fire-protection test examination report No. 3030/3032-2

Bracket			Load case				Weight	P. Qty.	**Art. No.** hot piece-galvanized
Model length	Lengths		q l	q l/2 l/2	F_1	F_2 F_2 l/2 l/2			
X	L_1	L_2	Perm. loading						
in mm	in mm	in mm	in kN/m	in kN/m	in kN	in kN	in kg/pc.	in Pc.	
300	255	208	26.39	35.18	3.96	2.64	1.61	1	**0862 009 040**
400	280	233	16.99	22.65	3.40	2.26	2.63	1	**0862 009 041**
500	310	263	12.41	16.55	3.10	2.07	2.70	1	**0862 009 042**
600	340	293	9.84	13.12	2.95	1.97	2.99	1	**0862 009 043**
700	370	323	8.01	10.68	2.80	1.87	3.45	1	**0862 009 044**

Varifix® Hinge Joint

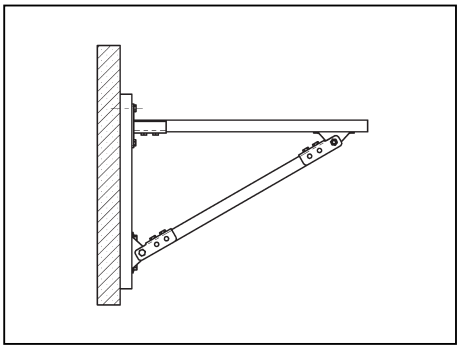
Area of application

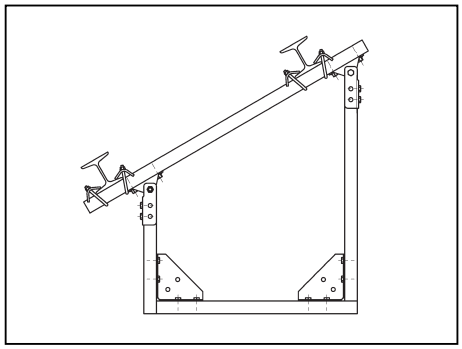
- Attachment of pipes, air ducts or electrical conduits on sloping roofs.
- Variable angle adjustment.
- For long console extensions with diagonal strut.

Available types

Type of rail	**Art. No.**	Pack Qty.
36/36	**0862 005 172**	1
41/41	**0862 005 173**	

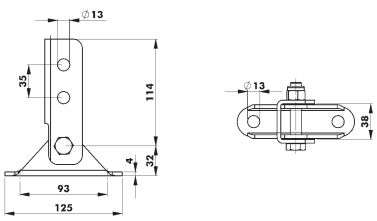
Application example



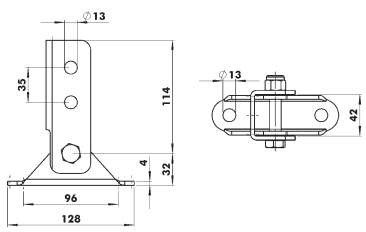


Dimensions

Type 36 – Art. No. 0862 005 172

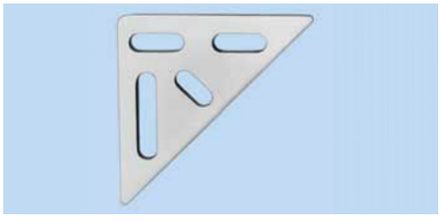


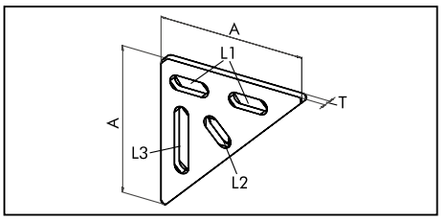
Type 41 – Art. No. 0862 005 173



Attachment Components for C Profiles

Electrogalvanised





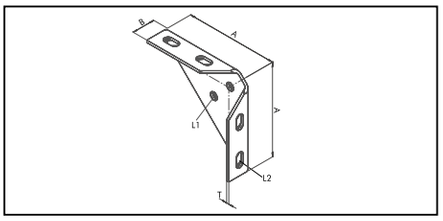
For rail type	A in mm	T in mm	L1 in mm	L2 in mm	L3 in mm	Weight in kg	Art. No.	P. Qty.
26/18	90	5	9 x 30	9 x 25	9 x 30	0.13	**0862 005 070**	25
26/26								
28/28								
36/36	110	6	11 x 30	11 x 25	11 x 50	0.23	**0862 005 071**	
41/22								
41/41								
41/62								
41/124								

Varifix® three-sided bracket

Application

For the attached mounting of C mounting rails

- longitudinally
- crosswise
- diagonally



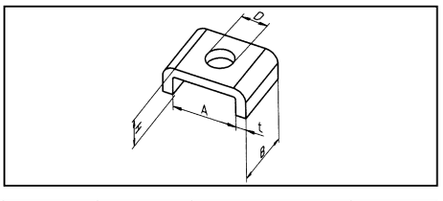
For rail type	A in mm	B in mm	T in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
26/18	100	27	3	9	9 x 20	0.21	**0862 005 050**	25
26/26								
28/28								
36/36	150	35	4	11	11 x 25	0.57	**0862 005 051**	10
41/22		40		13	13 x 25	0.61	**0862 005 052**	
41/41								
41/62								
41/124								

Varifix® frame brackets

Application

For the attached mounting of C mounting rails

- longitudinally
- crosswise
- diagonally



For rail type	A in mm	B in mm	H in mm	D in mm	t in mm	Weight in g	Art. No.	P. Qty.
26/18	28	25	10	10.5	2	17	**0862 005 150**	100
26/26								
28/28								
36/36	38	30				23	**0862 005 151**	
41/22	41				3	41	**0862 005 152**	
41/41								
41/22				13		40	**0862 005 153**	
41/41								
41/62								
41/124								

Varifix® retaining clips

The safe alternative to washers

Application

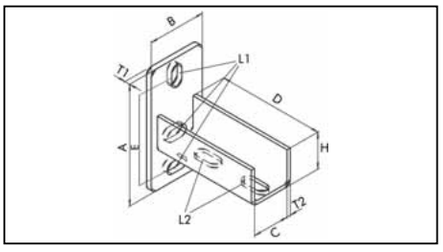
To stabilise the C mounting rails in connection with hammerhead screws or hammer head fasteners.
Prevents lateral bending up of the C rail under a load.

Heavy version

For rail type	A in mm	B in mm	H in mm	D in mm	t in mm	Weight in g	Art. No.	P. Qty.
For all 41 series rails	41	29	10	11 (M10)	6	78	**0862 005 154**	25
				14 (M12)		74	**0862 005 155**	
				17 (M16)		70	**0862 005 156**	

Attachment Components for C Profiles

Electrogalvanised



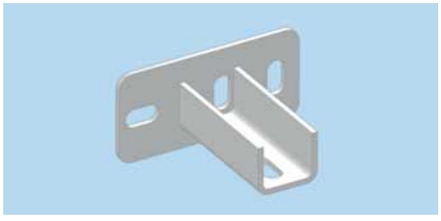
Varifix® Profile Base

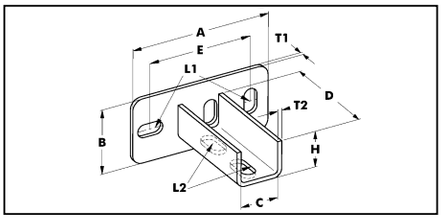
Application

For fastening C installation rails for heavy loading to:

- Floor
- Ceiling
- Wall
- In ducts and channels.

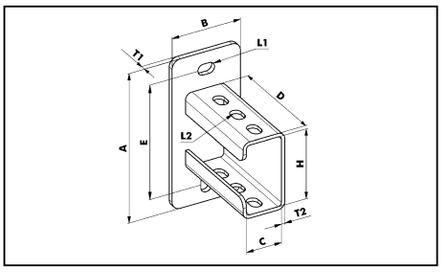
For rail type	A in mm	B in mm	T1 in mm	D in mm	H in mm	T2 in mm	C in mm	E in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
26/18													
26/26	100	50	5	80	28	3	28.5	68	9 x 25	9 x 25	0.32	**0862 005 110**	25
28/28													
36/36				100	36		36,5		11 x 25	11 x 30	0.68	**0862 005 111**	
41/22													
41/41	135	65	6	120	41	4	41,5	100	13 x 25	13 x 30	0.90	**0862 005 112**	10
41/62													





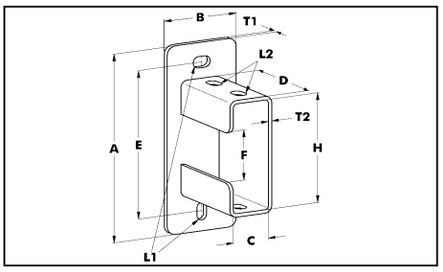
Varifix® Cross Profile Base for C-Rail 36 and 41

For rail type	A in mm	B in mm	T1 in mm	D in mm	H in mm	T2 in mm	C in mm	E in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
36/36				100	36		36.5		11 x 25	11 x 30	0.68	**0862 005 114**	
41/22													
41/41	135	65	6	120	41	4	41,5	100	13 x 25	13 x 30	0.90	**0862 005 116**	10
41/62													



Varifix® Profile Base for C-Rail 41/82

For rail type	A in mm	B in mm	T1 in mm	D in mm	H in mm	T2 in mm	C in mm	E in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
41/82	180	80	6	120	92	4	42	138	25x12	25x12	1.42	**0862 005 117**	10



Varifix® Profile Base for C-Rail 41/124

For rail type	A in mm	B in mm	T1 in mm	D in mm	H in mm	T2 in mm	C in mm	E in mm	F in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
41/124	215	82	6	100	125	4	42	180	57	13x20	13x20	1.7	**0862 005 113**	1

Attachment Components for C Profiles

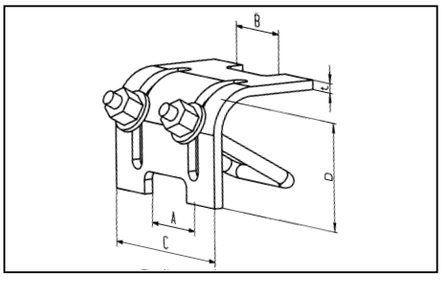
Electrogalvanised

Application

- Corner connections.
- Bracket designs.
- Free designs.

Advantages of pre-assembled comp.

- Connection of rails and brackets in shortest possible time (rail connectors).
- Reduces working time.
- No individual parts.
- Safe plug-in assembly.

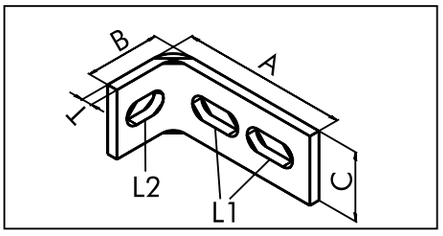


Varifix® Tensioning Clamp

- For fastening C mounting rails to steel supports without drilling and welding.
- 2 tensioning clamps should always be used per steel support.

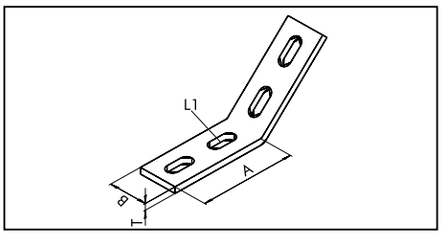
For rail type	A in mm	B in mm	C in mm	D in mm	T in mm	Hoop	Art. No.	P. Qty.
26/18								
26/26	26	30	70	45	4	M6x34x70	**0862 005 105**	
28/28								
36/36								
41/22	38	41	80	45	6	M8x45x90	**0862 005 106**	20
41/41								
41/62	38	41	80	45	6	M10x45x110	**0862 005 107***	
41/124						M10x45x170	**0862 005 108***	10

*In place of the oblong hole, this tensioning clamp has 3 holes with a hole dia. of 12 mm.



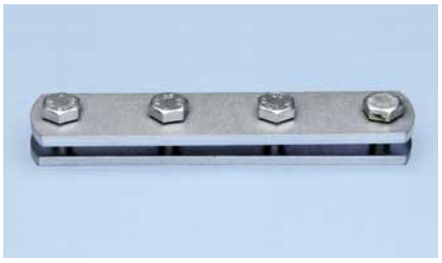
Varifix® 90° Angled Connecting Bracket

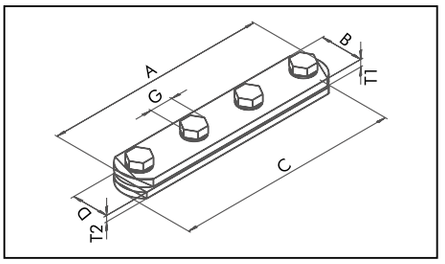
For rail type	A in mm	B in mm	C in mm	T in mm	L1 in mm	L2 in mm	Weight in kg	Art. No.	P. Qty.
26/18									
26/26	75	28	25	4	9 x 25	9 x 15	0.06	**0862 005 040**	
28/28									
36/36	80	36	33	5	11 x 25	11 x 20	0.11	**0862 005 041**	50
41/22									
41/41	90	45	40	6	13 x 25	13 x 20	0.19	**0862 005 042**	
41/62									
41/124									



Varifix® 45° Angled Connecting Bracket

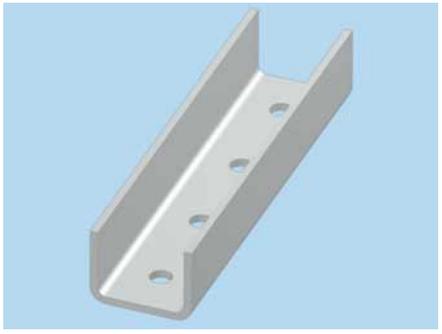
For rail type	A in mm	B in mm	T in mm	L1 in mm	Weight in kg	Art. No.	P. Qty.
26/18							
26/26	68	25	4	9 x 25	0.06	**0862 005 060**	
28/28							
36/36	72	35	5	11 x 25	0.11	**0862 005 061**	25
41/22							
41/41	84	40	6	13 x 25	0.19	**0862 005 062**	
41/62							
41/124							

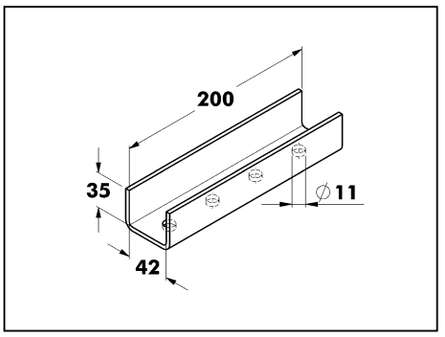




Varifix® Rail Joiners
pre-mounted

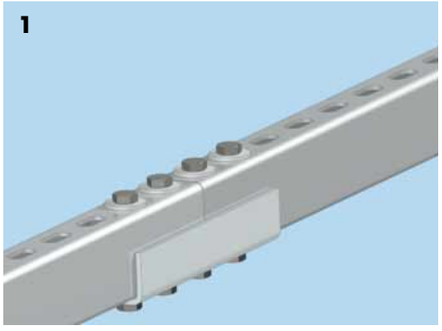
For rail type	A in mm	B in mm	C in mm	D in mm	T1 in mm	T2 in mm	G in mm	Weight in kg	**Art. No.**	P. Qty.
26/18	154	25	139	22	5	4	M 8 x 16	0.27	**0862 006 001**	10
26/26										
28/28										
36/36	180	35	165	30	6	5	M 10 x 20	0.55	**0862 006 002**	
41/22	200	40	185	35				0.7	**0862 006 003**	
41/41										

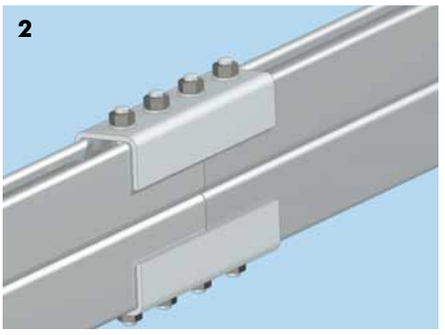




Varifix® Rail Joiners heavy model for 41/62 and 41/124

- With four round holes which fit the oblong holes of the mounting rails.
- Positive/form-fitting connection with through-bolt mounting using threaded rods or hexagon bolts, washers and nuts.

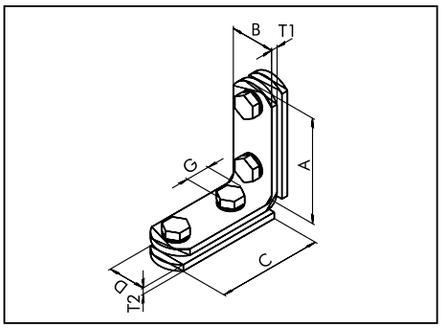




Mounting 41/62:
Connect rail joiner as in Fig. 1 with four Hexagon Bolts 10 x 80 mm (e.g. Art. No. 0053 10 80), Nuts Art. No. 0317 10 and Wing Repair Washers Art. No. 0411 10 40 for form-fit.

Mounting 41/124:
Connect rail joiner as in Fig. 2, but with Hexagon Bolts 10 x 150 mm Art. No. 0053 10 150, Nuts and Wing Repair Washers as above for form-fit.

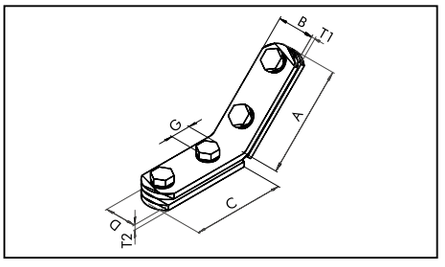
Designation	**Art. No.**	P. Qty.
Varifix Rail Joiners, heavy model for rail types 41/62 and 41/124	**0862 006 004**	1



Varifix® 90° Angled Connecting Bracket

pre-mounted

For rail type	A in mm	B in mm	C in mm	D in mm	T1 in mm	T2 in mm	G in mm	Weight in kg	**Art. No.**	P. Qty.
26/18	82	25	77	22	5	4	M 8 x 16	0.27	**0862 005 120**	15
26/26										
28/28										
36/36	95	35	90	30	6	5	M 10 x 20	0.55	**0862 005 121**	
41/22	105	40	100	35				0.7	**0862 005 122**	
41/41										
41/62										
41/124										

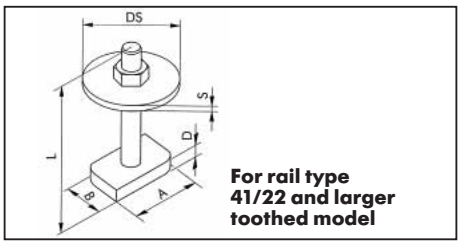


Varifix® 45° Angled Connecting Bracket

pre-mounted

For rail type	A in mm	B in mm	C in mm	D in mm	T1 in mm	T2 in mm	G in mm	Weight in kg	**Art. No.**	P. Qty.
26/18	75	25	77	22	5	4	M 8 x 16	0.27	**0862 005 130**	15
26/26										
28/28										
36/36	88	35	90	30	6	5	M 10 x 20	0.55	**0862 005 131**	
41/22	97	40	100	35				0.7	**0862 005 132**	
41/41										
41/62										
41/124										

Fastening Components



For rail type 41/22 and larger toothed model

Varifix Standardfix

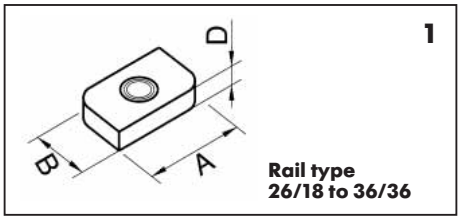
Hammer-head fastener preassembled with nut and washer, galvanized

- Threaded bolt strength class 4.6.

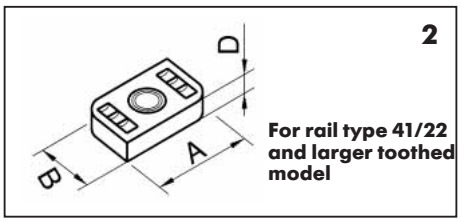
Application

- Recommended for direct fastening of pipe clamps.

Rail type	Thread	Dimensions in mm L	A	B	D	DS	S	Art. No.	P. Qty.
26/18 26/26 28/28	M 8	25	22	13	4	25	1.5	**0862 100 001**	100
		30						**0862 100 002**	
		40						**0862 100 003**	
		50						**0862 100 004**	
		60						**0862 100 005**	
		80						**0862 100 006**	
36/36		30	30	18	6	30	1.5	**0862 100 010**	
		40						**0862 100 011**	
		60						**0862 100 012**	
		80						**0862 100 013**	
	M 10	40					3	**0862 100 020**	
		60						**0862 100 021**	
		80						**0862 100 022**	
41/22 41/41 41/62 41/124	M 8	40	35	20	6	40	3	**0862 100 030**	
		60						**0862 100 031**	50
		80						**0862 100 032**	
		100						**0862 100 033**	
	M 10	40						**0862 100 040**	100
		60						**0862 100 041**	50
		80						**0862 100 042**	
		100						**0862 100 043**	
	M 12	30	35	20	6	40	3.5	**0862 100 050**	25
		40						**0862 100 051**	
		60						**0862 100 052**	
		80						**0862 100 053**	



Rail type 26/18 to 36/36



For rail type 41/22 and larger toothed model

Varifix Sliding Nuts

galvanized

Application

- Recommended for direct fastening of pipe clamps.
- Recommended for fastening between mounting rail and connecting component.

Type of fastening

1 Slip-resistant or shear/projecting joints with hexagon bolt, threaded piece or rod (4.6), washer and nut.
2 Form-fitting, slip-resistant or shear/projecting joint connection.

Rail type	Thread	Dimensions in mm A	B	D	Art. No.	P. Qty.
26/18	M 6	22	13	4	**0862 062 46**	100
26/26	M 8				**0862 062 48**	
28/28	M 10				**0862 062 410**	
36/36	M 6	30	18		**0862 063 36**	
	M 8			6	**0862 063 38**	
	M 10				**0862 063 310**	
	M 12				**0862 063 312**	
41/22 * 41/41 * 41/62 * 41/124 *	M 8	35	20	6	**0862 064 008 ***	
	M 10				**0862 064 010 ***	
	M 12				**0862 064 012 ***	

* also suitable for mounting rails with toothing

Fastening Components

Varifix Rapidfix

Varifix hammer-head screws with nut, washers and spacer element pre-assembled.

Rail type	Dimensions in mm*	Art. No.	P. Qty.
26/18 26/26 28/28	M 8 x 25	**0862 101 001**	100
	M 8 x 30	**0862 101 002**	
	M 8 x 40	**0862 101 003**	
	M 8 x 50	**0862 101 004**	
	M 8 x 60	**0862 101 005**	
	M 8 x 80	**0862 101 006**	
	M 8 x 100	**0862 101 007**	50
	M 8 x 120	**0862 101 008**	
36/36	M 8 x 30	**0862 101 020**	100
	M 8 x 40	**0862 101 021**	
	M 8 x 60	**0862 101 022**	
	M 8 x 80	**0862 101 023**	
	M 8 x 100	**0862 101 024**	50
	M 10 x 40	**0862 101 030**	
	M 10 x 60	**0862 101 031**	
	M 10 x 80	**0862 101 032**	
	M 10 x 100	**0862 101 033**	
41/22 41/41 41/62 41/124	M 8 x 40	**0862 101 040**	
	M 8 x 60	**0862 101 041**	
	M 8 x 80	**0862 101 042**	
	M 8 x 100	**0862 101 043**	
	M 10 x 40	**0862 101 050**	
	M 10 x 60	**0862 101 051**	
	M 10 x 80	**0862 101 052**	
	M 10 x 100	**0862 101 053**	

* Technical dimensions same as Hammer-Head Fastener 862 100 ...

Advantages

- System is ready for assembly.
- Single-handed assembly of the hammer-head screws.
- Immediate clamping in the C-rail.
- Spacer element made of synthetic rubber.

Benefits

- Saves time during assembly in comparison with conventional systems.
- Easier assembly, particularly when working on a ladder.
- Slides easily into the rail, both horizontally and vertically.
- Highly wear- and aging-resistant.

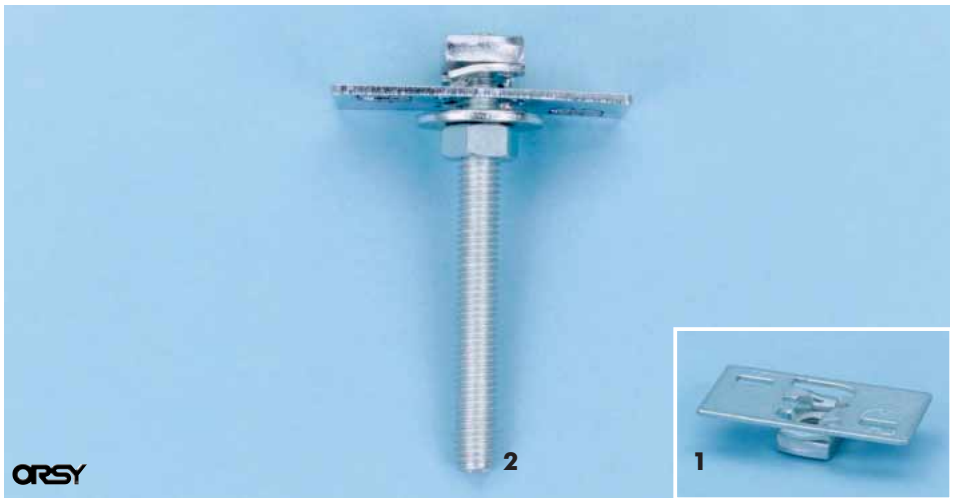
Handling

Rapidfix is inserted into the C-profile.

The hammer-head screw is secured by pressing it and simultaneously turning it clockwise.

Tightening the nut until the spacer element is fully pressed.

Fastening Components



Rail type	Fig.	Dimensions	**Art. No.**	Weight g	P. Qty.
26/18 26/26 28/28	1	M8	**0862 102 001**	26/P.	50
		M10	**0862 102 002**	29/P.	
	2	M8 x 30 mm	**0862 102 010**	36/P.	
		M8 x 60 mm	**0862 102 011**	45/P.	
		M8 x 90 mm	**0862 102 012**	55/P.	

Handling

Systemfix is inserted into the C profile.

A 1/4 rotation fixes the part.

Tightening the nut.

Height adjustment possible by screwing in the set screw.

Varifix® Systemfix

- For assembly connection of the Varifix® C Rails 26/18, 26/26 and 28/28. The Varifix® Systemfix is available as a preassembled unit of the dimension M8 and also as a single part for M8 and M10.
- Material: Base plates STW 22, threaded pieces galvanised steel 4.6.

▸ Preassembled system in various lengths.
Your advantage:
Time-saving during assembly in comparison with the usual systems.

▸ Immediately fixed with a 1/4 rotation.
Your advantage:
No fumbling on the C rail.

▸ Positive connection with the rail.
Your advantage:
Precise fit in the rail – alignment possible in the rail.

▸ One-handed assembly possible.
Your advantage:
Easier assembly, particularly when working on the ladder.

▸ Integrated lock in the set screw.
Your advantage:
During height adjustment in the rail, the set screw cannot fall out.

▸ Systemfix single M8 and M10.
Your advantage:
Suspensions for long lengths with threaded rods.

▸ Base plate with two slot openings.
Your advantage:
Simple release with a screwdriver.

Rail type	Dimensions	**Art. No.**	Weight g	P. Qty.
all 41-series rails	M8	**0862 104 001**	56/P.	25
	M10	**0862 104 002**	64/P.	25
	M12	**0862 104 003**	68/P.	25

Handling

Systemfix is inserted.
1/4 rotation –
and the part is fixed.

Screw in threaded rod.

Screw in and tighten nut.

Height adjustment
possible by screwing in
the threaded rod.

Varifix® Systemfix 41

- For assembly connection of all Varifix® mounting rails of the 41-range. The Systemfix 41 is available in the dimensions M8, M10 and M12.

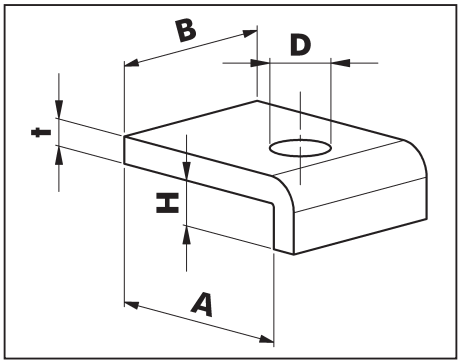
- Immediately fixed with a 1/4 rotation.
  Your advantage:
  No fumbling on the C rail.

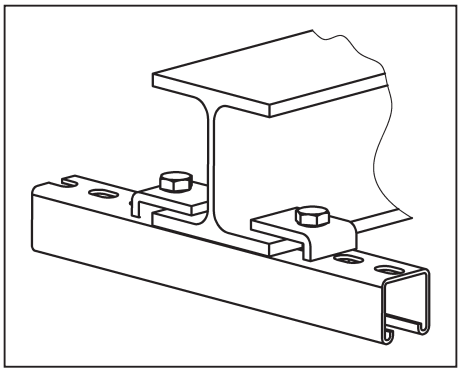
- Positive connection with the rail.
  Your advantage:
  Precise fit in the mounting rail – alignment possible in the rail.

- One-handed assembly possible.
  Your advantage:
  Easier assembly, particularly when working on the ladder.

- On all Systemfix-41 models.
  Your advantage:
  Suspensions with threaded rods for long lengths optimally possible.

MWF - 02/06 - 09450 - © •



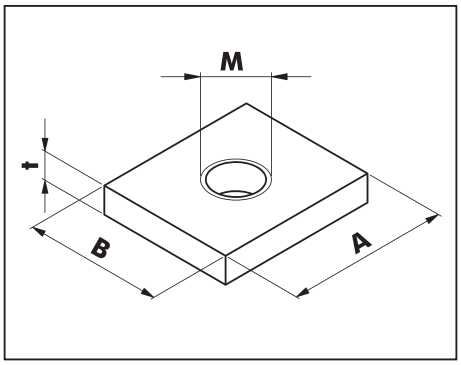


Varifix® Beam Clamp

TS

- For the fastening of mounting rails to H or T supports.
- For flange thicknesses of the support of 10–25 mm.
- Material: St37, surface: galvanized.
- Hole diameter: 13 mm for threaded rods or screws up to M12.
- Stressabilty with Grade 4.6: 10 kN, Stressability with Grade 5.6: 12 kN.
- Mounting with combination sliding nut.

Designation	A x B in mm	t mm	H mm	D mm	**Art. No.**	P. Qty.
Support anchor clamp TS 10	45 x 40	6	10	13	**0862 005 090**	20
Support anchor clamp TS 15	45 x 40	6	15	13	**0862 005 091**	20
Support anchor clamp TS 20	45 x 40	6	20	13	**0862 005 092**	10
Support anchor clamp TS 25	45 x 40	6	25	13	**0862 005 093**	10



Varifix® Combination Sliding Nut

- Material: St37, surface: galvanized.

26/28

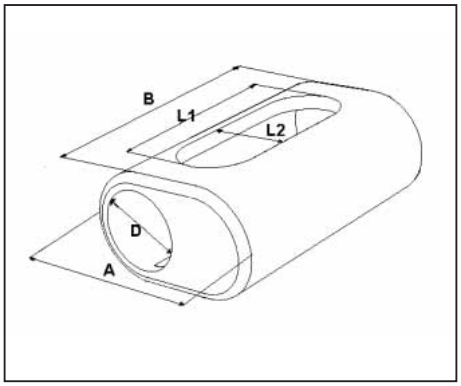
- Fits all rail types 26 and 28.
- Type M8 and M10.

Designation	A x B in mm	t mm	M	**Art. No.**	P. Qty.
Combination sliding nut M8	23 x 22.5	5	M8	**0862 064 098**	100
Combination sliding nut M10	23 x 22.5	5	M10	**0862 064 099**	100

36/41

- Fits all rail types 36 and 41.
- Type: M8–M16.

Designation	A x B in mm	t mm	M	**Art. No.**	P. Qty.
Combination sliding nut M8	33 x 29	6	M8	**0862 064 100**	100
Combination sliding nut M10	33 x 29	6	M10	**0862 064 101**	100
Combination sliding nut M12	33 x 29	6	M12	**0862 064 102**	100
Combination sliding nut M16	33 x 29	6	M16	**0862 064 103**	100



Varifix® Parallel Connector

Fast connection of two M8 or M10 threaded rods for suspending pipes.

- Bridging of large height differences, especially with heavy pipe and ventilation suspensions.
- Simple, stable connection of two threaded rods.
- Material: Diecast zinc.
- Recommended load: max. 0.8 kN with fully screwed-in rod.

Threaded rod	Weight/Pc. in g	A in mm	B in mm	D in mm	L1 x L2 in mm	Thickn. in mm	**Art. No.**	P. Qty.
M8	22	19	35	10	20 x 8	2	**0862 048 200**	100
M10	20	35	35	10	20 x 10	2	**0862 048 201**	100

Guide in threaded rod 1 from above.

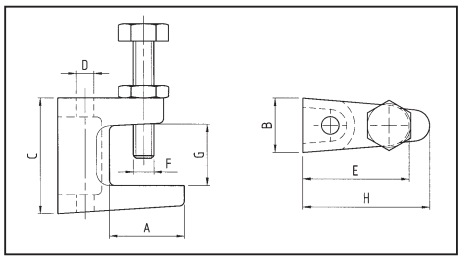
Position threaded rod 2 from below and screw in.

Varifix® Beam Clamps

VdS approved (all dimensions)
FM approval (except for M 8 and the compact version)

Material: malleable cast iron, Surface: galvanized.

- For mounting pipes, sprinkler systems, ventilation ducts on T-beams, U and angle profiles.
- With hexagonal setting screw DIN 933/8.8; end of screw has a ring cutter.
- VDS recognized and approved for plant installation of stationary fire extinguishing systems.
- Additional compact version with reduced dimensions for electrical installation.



Art. No.	A in mm	B in mm	C in mm	D dia. in mm	E in mm	F	H in mm	G in mm	Weight approx. in g per unit
0862 200 001	28	21	45	M8	41.5	M10	50	23.7	149
0862 200 002	28	20.5	45	dia. 9	41	M10	50	24	147
0862 200 003	23	21.6	42	M10	41	M10	44	21	144
0862 200 004	23	21.5	41.5	dia. 11	41	M10	44	20	143
0862 200 005	35	24	54	M12	48	M10	57.5	26	220
0862 200 006	34	24	54	dia. 13	48	M10	58	27.5	218
0862 200 007	27	30	58	M16	55.4	M 12	58	29	318
0862 200 008	27	29.5	57.5	dia. 17	55	M 12	58	29	318
0862 200 015	21	19	36.4	M8	35	M 8	38.5	19	81
0862 200 016	20	19	37	dia. 9	35	M 8	38	18.7	81

Standard with threaded hole

Diameter	Clamping range in mm	Stat. secured max. load in N	**Art. No.**	P. Qty.
M 8	23	2500	**0862 200 001**	25
M10	20	2500	**0862 200 003**	25
M 12	26	3500	**0862 200 005**	10
M16	28	5500	**0862 200 007**	10

Standard with through-hole without thread

Diameter in mm	Clamping range in mm	Stat. secured max. load in N	**Art. No.**	P. Qty.
9	23	2500	**0862 200 002**	25
11	20	2500	**0862 200 004**	25
13	26	3500	**0862 200 006**	10
17	28	5500	**0862 200 008**	10

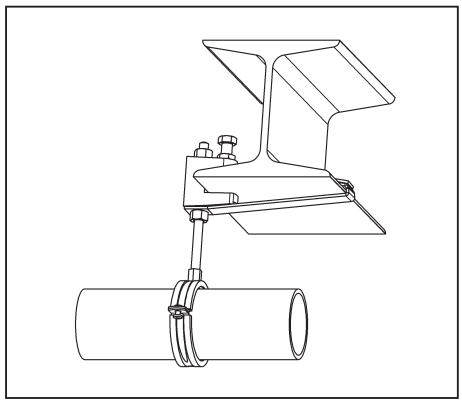
Compact with threaded hole

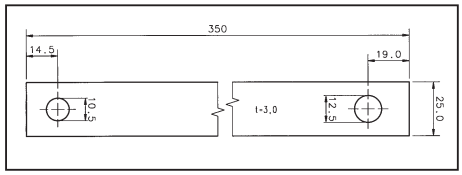
Diameter	Clamping range in mm	Stat. secured max. load in N	**Art. No.**	P. Qty.
M 8	18	1200	**0862 200 015**	25

Compact with through-hole without thread

Diameter in mm	Clamping range in mm	Stat. secured max. load in N	**Art. No.**	P. Qty.
9	18	1200	**0862 200 016**	25

Securing tab



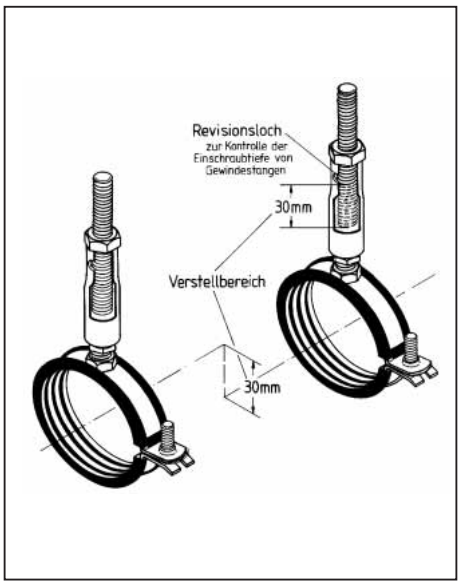


Designation	**Art. No.**	P. Qty.
Securing tab for beam clamp M 8, M 10, M 12	**0862 200 010**	25
Securing tab for beam clamp M 16 (no ill.)	**0862 200 011***	10

* Available on special order

Beam clamps can always be secured with a securing tab. For sprinkler systems, applicable VdS requirements prescribe that beam clamps must be secured if the mounted pipe has a diameter larger than DN 65 mm.

Fastening Components



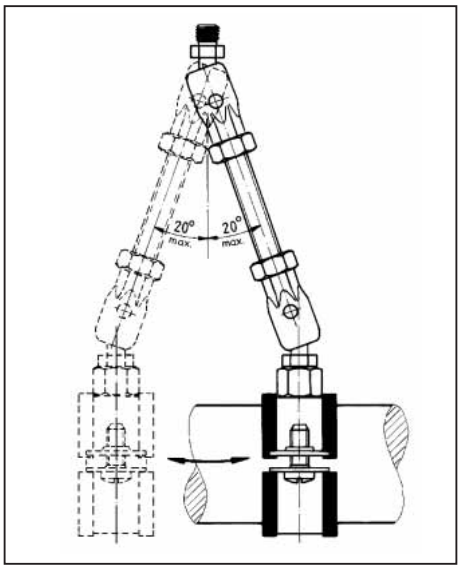
Male thread	Female thread	Size in mm	Total length in mm	Max. permissible load in kN	Art. No.	P. Qty.
M 8	M 8	10/10	60	3.0	**0862 047 008**	50
M 10					**0862 047 010**	
M 8	M 10	13/12			**0862 047 108**	
M 10					**0862 047 110**	

Vertical Adjuster

galvanized

- For the suspension of pipelines and components with threaded rods.
- Compensation of dimensional tolerances.
- Continuously vertically adjustable.
- Adjustment range: 30 mm.
- Easy and quick mounting.
- Secure mounting is ensured by inspection opening.

(1 kN = 100 kp = 100 kg)



Type	Male and female threads	Size in mm	Total length in mm	Max. permissible load in kN	Art. No.	P. Qty.
short	M 8	10/10	40	3.0	**0862 048 008**	50
	M 10	10/12			**0862 048 010**	
long	M 8	10/10	65		**0862 048 108**	
	M 10	10/12			**0862 048 110**	
–	M 12	19	90		**0862 048 112**	25

Pendular Suspension

galvanized

- For the suspension of pipelines and components with threaded rods.
- Suspended attachment to angled ceilings (roof area).
- Uncontrolled tensional forces on the attachment are avoided.
- Flexible pendular effect, 2 x 20° on all sides.
- Easy and quick mounting.
- Secure mounting is ensured by inspection opening.
- No tilting of the pipe clamps.
- Vertical regulation up to approx. 25 mm possible with long version.

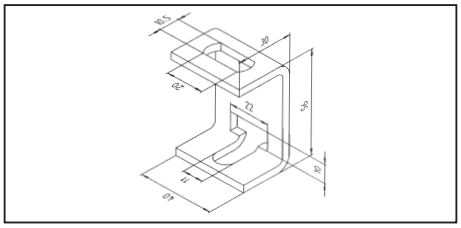
Additional products

Stud Screws	Art. No. 0232 ...
Knock-In Stud Screws	Art. No. 0232 ...
Threaded Rods	Art. No. 0958 ...
Hexagonal Spacing Sleeves	Art. No. 0974 ...
Round Spacing Sleeves	Art. No. 0974 ...

Industry information

Heating, plumbing, ventilation, pipeline and system construction, suspensions.

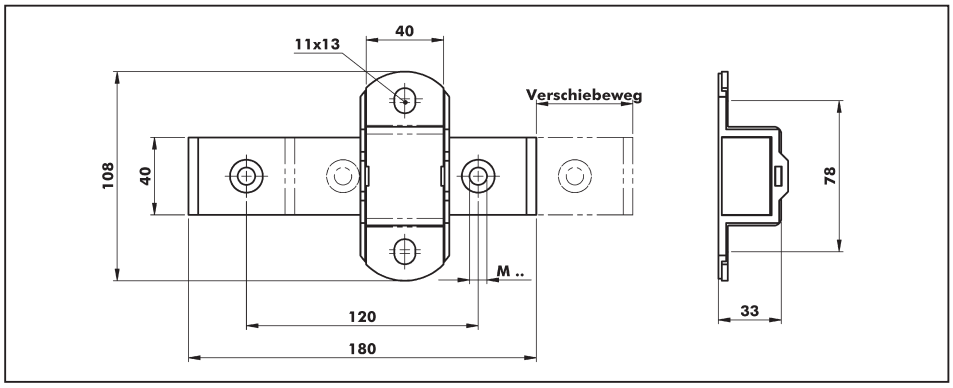
(1 kN = 100 kp = 100 kg)



Vertical Adjustment Piece

For the vertical adjustment of suspended mounted pipelines, ventilation lines etc..

Weight in kg	Load in kN	Art. No.	P. Qty.
0.1	1	**0862 005 100**	50

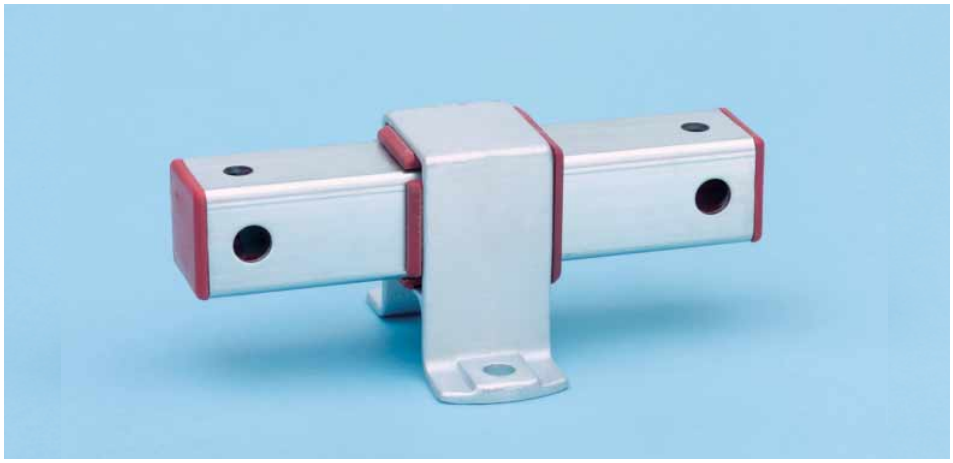


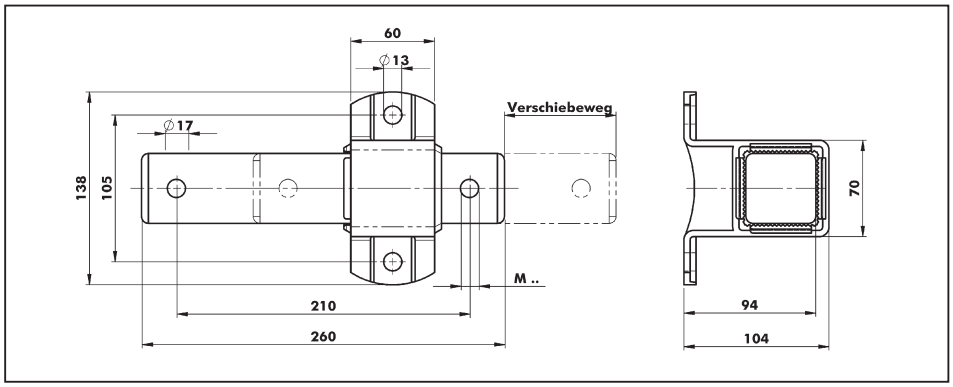
Varifix® Pushing Slide Type GK-1

Advantages

- Large pushing distance up to 60 mm.
- Minimal height.
- Secured from tipping and falling over through support via two clamps.
- For ceiling, floor, or rising line mounting.
- Thermal stability: –40°C to +100°C.
- Max. recommended load: 1,500 N.
- For pipe sizes up to DN 80.

Connection thread	Max. pushing distance in mm	**Art. No.**	P. Qty.
M 8	60	**0862 700 102**	1
M 10	55	**0862 700 103**	
M 12	53	**0862 700 104**	





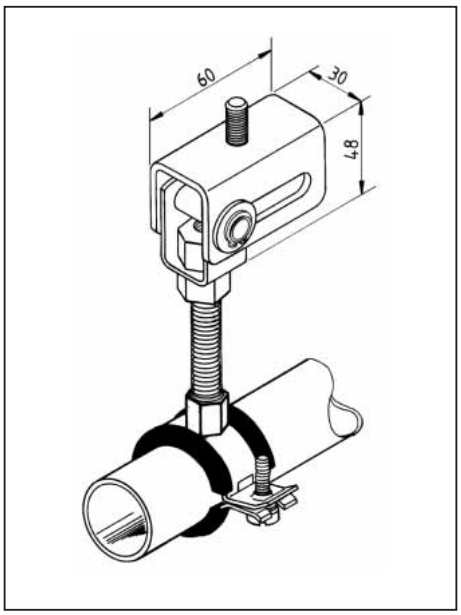
Varifix® Square Pushing Slide Type GK-2

Advantages

- Smooth-running pushing slide for high loads.
- Large pushing distance up to 125 mm.
- Variable pipe clamp connection via threaded pins.
- Connection options for M12 and M16.
- Also suitable for wall fastening in case of horizontal and vertical pipelines.
- Max. recommended load for tension, pressure and bending: 7,800 N.

Pushing distance in mm	**Art. No.**	P. Qty.
125	**0862 700 105**	1

Fastening Components

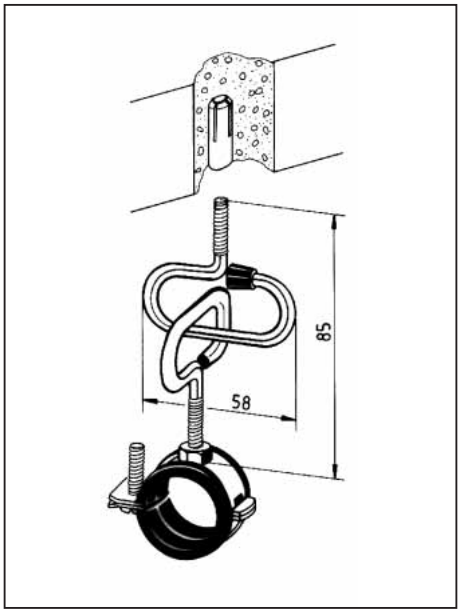


Sliding Piece
galvanized

- Used in pipeline and system construction.
- For the absorption of temperature-based changes in length of pipelines and components (axial shifting).
- Allows pendular motion.
- Single-point suspension directly at the ceiling or mounting rail.
- Tensional forces on the pipe attachment are avoided.
- Combination nut ensures connection of a variety of threads, i.e. M 8/M 10.

Male thread	Female thread	Sliding dist. max. in mm	Max. permissible load in kN	**Art. No.**	P. Qty.
M 8	M 8/M 10	35	1.3	**0862 049 008**	10
M 10				**0862 049 010**	

(1 kN = 100 kp = 100 kg)



Sliding Hook
galvanized

- Absorbs temperature-based changes in length of plastic pipes.
- Fastened directly to the ceiling or mounting rail.
- Allows unhindered shifting in any direction.

Additional products

Brass Anchor	Art. Pre-No. 0904
Threaded Rods	Art. Pre-No. 0958
Hexagonal Spacing Sleeves	Art. Pre-No. 0974
Spacing Sleeves, Round	Art. Pre-No. 0974
Threaded Pieces	Art. Pre-No. 0958

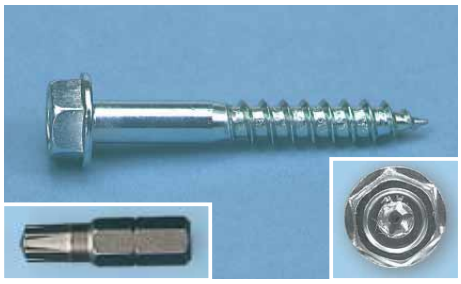
Industry information

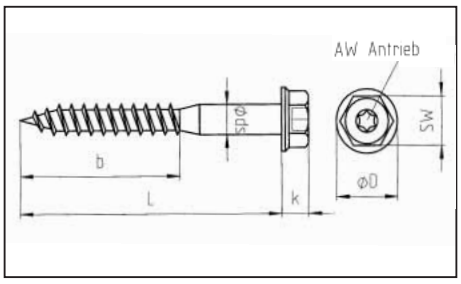
Heating, plumbing, ventilation, pipeline and system construction.

Thread	Max. permissible load in kN	**Art. No.**	P. Qty.
M 8	0.5	**0862 050 008**	25

(1 kN = 100 kp = 100 kg)

Fastening Components



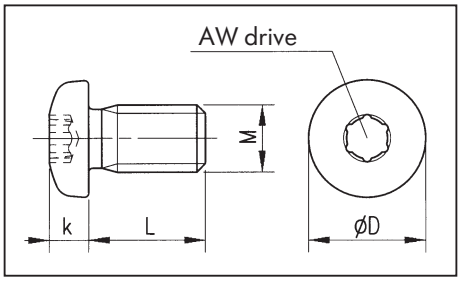


Strap Screw

DIN 571 galvanized

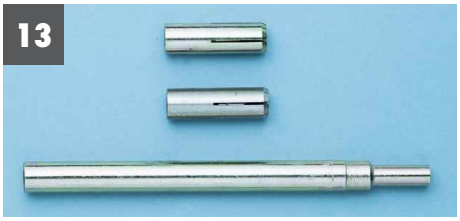
Used for the attachment of installation rails, drilling brackets, multi-function strip etc.

Dia. x length in mm	AW	Size	Dia. D in mm	K in mm	L in mm	b in mm	ds in mm	**Art. No.**	P. Qty.
6 x 60	25	10	min. 12.7 max. 13.5	6.0	60	36	6	**0862 001 041**	100
6 x 75	25	10		6.0	70	48	6	**0862 001 042**	
8 x 60	30	13	min. 15.7 max. 17.0	7.5	60	36	8	**0862 001 030**	
8 x 80	30	13		7.5	80	48	8	**0862 001 031**	
8 x 100	30	13		7.5	100	60	8	**0862 001 032**	



Pan Head Screw

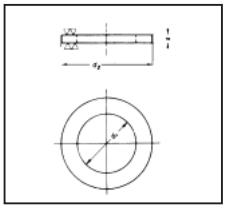
for Drive-In Anchor
Art. No. 0904 8, 0904 8 40.



	AW	Dia. D in mm	K in mm	L in mm	**Art. No.**	P. Qty.
M 8 x 14	30	14	5	14	**0862 001 040**	100

Bit
AW 25, AW 30
Art. No. 0614 5 ...

Additional products



Washers

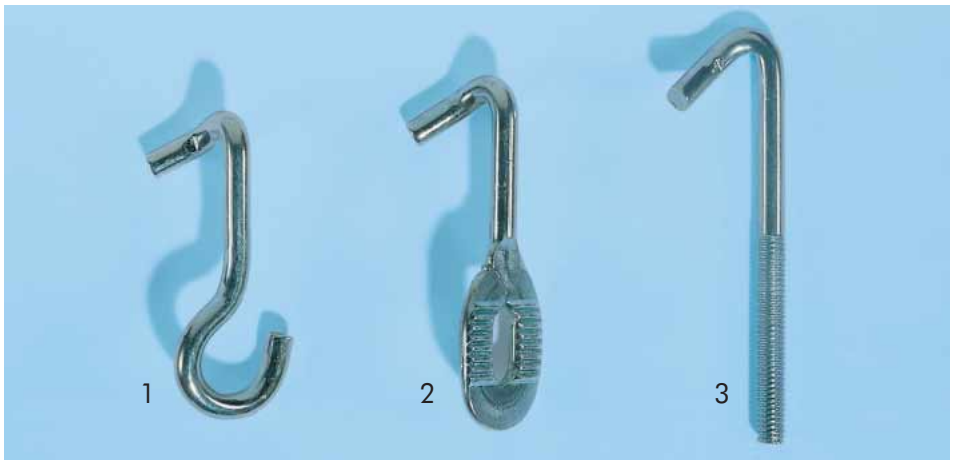
DIN 9021

(with large outer diameter)

- Material: steel.
- Surface: galvanized.

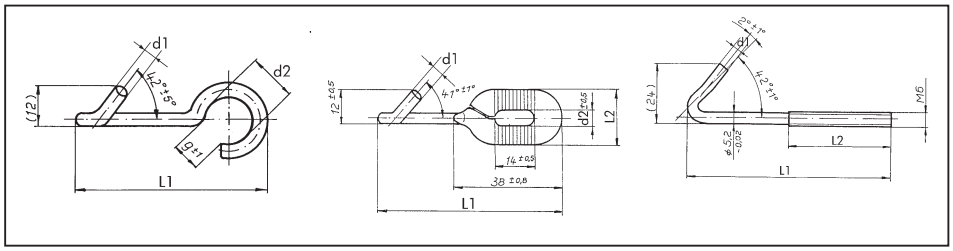
Thread dia. in mm	Inner dia. d_1 in mm	Outer dia. d_2 in mm	s in mm	**Art. No.** Steel, galvanized
6	6.4	18	1.6	**0416 6**
8	8.4	25	2.0	**0416 8**
10	10.5	30	2.5	**0416 10**

Fastening Components



Trapezoidal Plate Hooks

The quick anchor for profile plates.



Applications

Used to secure:
lamps, light bands, cable routes, pipes, signs, decorations, items suspended from the ceiling.

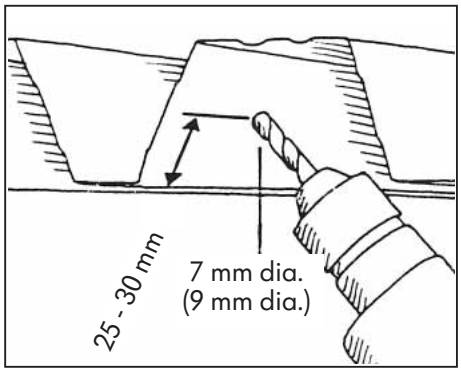
Fig.	Designation	Bore dia. in mm	d_1	d_2	L_1	L_2	**Art. No.**	P. Qty.
1	Round hook	7 *	5,2	13	60	–	**0862 550 0**	100
2	Oblong hole		5,2	6,2	68	21,5	**0862 551 0**	
3	M 6 thread		5,2	–	80	40	**0862 552 0**	
3	M 8 thread	9 *	7,0	–	95	60	**0862 553 0**	

All dimensions in mm.

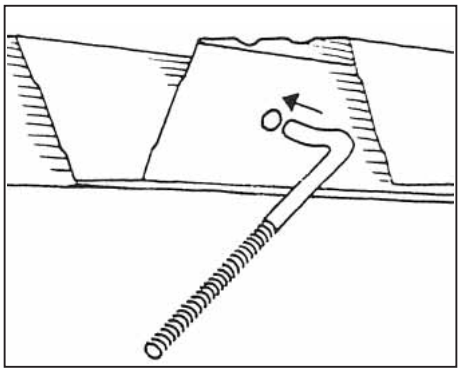
Recommended loads

With profile plate thickness	0.75 mm	0.3 kN
With profile plate thickness	1.00 mm	0.5 kN

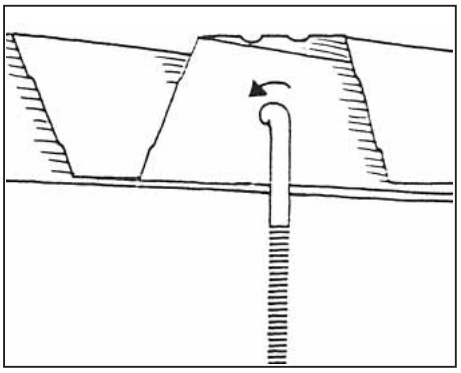
Attachment



Drill *



Hook in

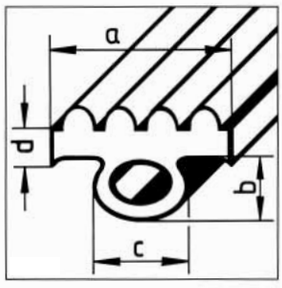


Finished

Varifix® Noise Protection Components

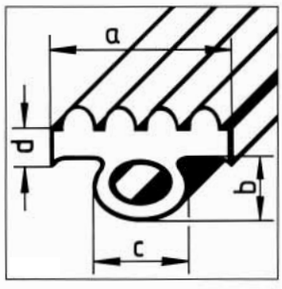
Insulation profile

For noise decoupling on mounting rail, e.g. with ventilation ducts.
The insulation profile is inserted into the C profile.
This insulation profile is also suitable for threaded rods.



For rail type	a	b	c	d	Length in m	For threaded rods	**Art. No.**	P. Qty.
26/18	30	12	16	3	30	M 8	**0862 042 040**	1
26/26								
28/28								
36/36	36	12	21	3		M 10	**0862 042 041**	
41/22	41	25	24	3		M 10	**0862 042 042**	
41/41								
41/62								
41/124								

Insulation profile in sections



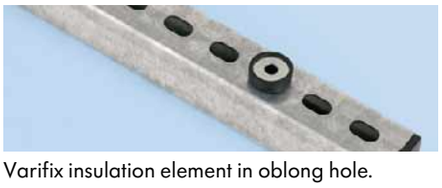
For rail type	a	b	c	d	Length in cm	For threaded rods	**Art. No.**	P. Qty.
26/18	30	12	16	3	10	M 8	**0862 042 060**	50
26/26								
28/28								
36/36	36	12	21	3		M 10	**0862 042 061**	
41/22	41	25	24	3		M 10	**0862 042 062**	
41/41								
41/62								
41/124								

Insulation element

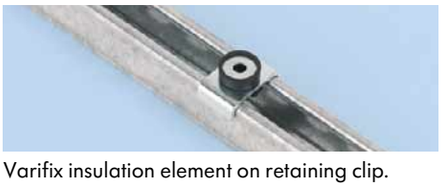
For noise- and vibration-damped mounting.
The insulation element is inserted into the mounting profile.
Material: natural rubber

Designation	Screw dia.	**Art. No.**	P. Qty.
Insulation element with disc	M 8	**0862 101**	100
	M 10	**0862 102**	

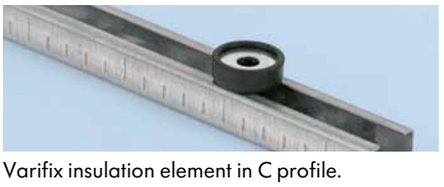
Application examples



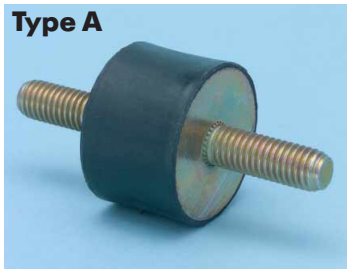
Varifix insulation element in oblong hole.

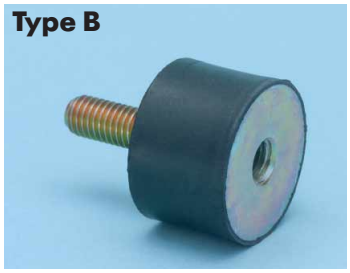


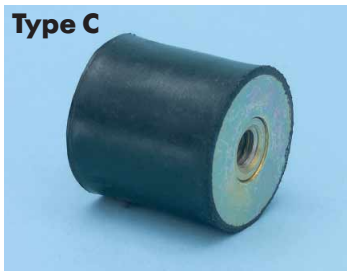
Varifix insulation element on retaining clip.

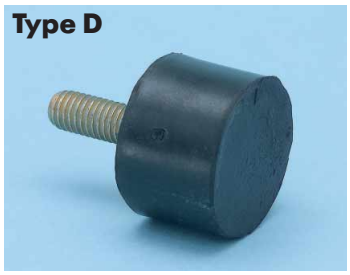


Varifix insulation element in C profile.









Rubber and Metal Buffers

General information

These are elastic supports manufactured from a natural elastomer (rubber). They are especially suitable for supporting light and mid-weight installations without heavy dynamic load.
The main task of the rubber and metal buffers is, for example to prevent the transfer of machine vibrations to the anchoring structure.

Applications and use

Most rubber and metal elements are intended for compressive stress. Installation positions where tensile and shear stresses dominate should be avoided.

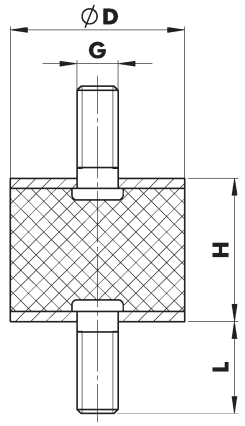
- Set-up and storage of fans, air conditioning units and pumps.
- Support base for compressors, fitness equipment and other frames and machines.

Designation/Type		Art. No.	P. Qty.
Rubber and metal buffer Type A	20 x 20 M6	**0862 800 001**	4
	30 x 20 M8	**0862 800 002**	
	40 x 30 M8	**0862 800 003**	
	50 x 30 M10	**0862 800 004**	
Rubber and metal buffer Type B	20 x 20 M6	**0862 800 010**	
	30 x 20 M8	**0862 800 011**	
	40 x 30 M8	**0862 800 012**	
	50 x 30 M10	**0862 800 013**	
Rubber and metal buffer Type C	20 x 20 M6	**0862 800 020**	
	30 x 20 M8	**0862 800 021**	
	40 x 30 M8	**0862 800 022**	
	50 x 30 M10	**0862 800 023**	
Rubber and metal buffer Type D	20 x 20 M6	**0862 800 030**	
	30 x 20 M8	**0862 800 031**	
	40 x 30 M8	**0862 800 032**	
	50 x 30 M10	**0862 800 033**	

Technical data

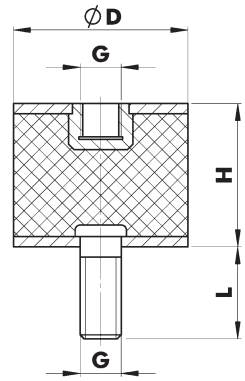
Metal parts	steel, yellow galvanised, threaded piece 4.6
Rubber quality	natural rubber (NR) with average Shore hardness of 55 +/–5° Shore A
Rubber characteristics Temperature resistance	–40°C to +80°C
Tensile strength	250 N/mm²
Tensile strain	500%
Abrasion/Flexural crack resistance	poor
Extension/Tensile strength	excellent
Elasticity/Impact resistance and structural integrity	excellent
Light resistance	good
Oxidation-/ozone-resistance	good
Wear resistance	very good
Weathering influences	good
Resistance to bases and water	good
Petrol, benzene, solvents, oils and greases	not suitable
Acids	poor

Type A



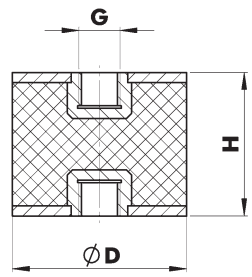
Art. No.	Dimensions in mm D	H	Thread: G x L	Compressive load in N	Spring deflection in mm
0862 800 001	20	20	M6 x 16 mm	100	3.2
				300	4.6
				500	5.8
0862 800 002	30	20	M8 x 23 mm	200	1.5
				400	2.5
				600	3.2
0862 800 003	40	30	M8 x 23 mm	200	0.8
				600	2.5
				1000	4.0
0862 800 004	50	30	M10 x 28 mm	600	1.8
				1200	2.9
				1800	4.5

Type B



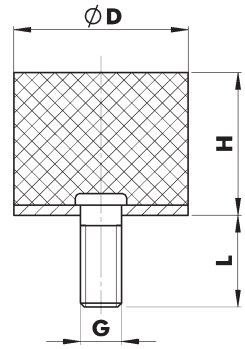
Art. No.	Dimensions in mm D	H	Thread: G x L	Compressive load in N	Spring deflection in mm
0862 800 010	20	20	M6 x 16 mm	100	0.6
				300	2.2
				500	3.5
0862 800 011	30	20	M8 x 23 mm	500	1.8
				1000	2.2
				1500	2.8
0862 800 012	40	30	M8 x 23 mm	200	1.7
				600	2.0
				1000	3.1
0862 800 013	50	30	M10 x 28 mm	600	2.8
				1200	5.8
				1800	–

Type C



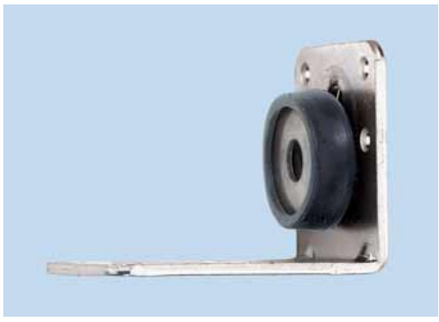
Art. No.	Dimensions in mm D	H	Thread: G	Compressive load in N	Spring deflection in mm
0862 800 020	20	20	M6	100	1.9
				300	2.3
				500	2.7
0862 800 021	30	20	M8	200	0.8
				400	1.2
				600	1.3
0862 800 022	40	30	M8	200	1.0
				600	2.0
				1000	3.0
0862 800 023	50	30	M10	600	0.5
				1200	0.9
				1800	1.3

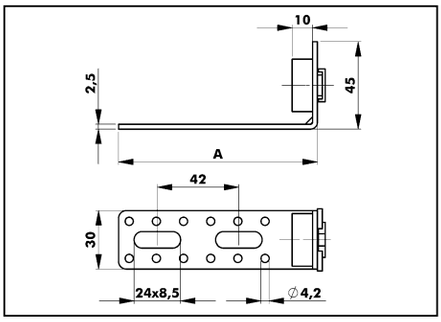
Type D



Art. No.	Dimensions in mm D	H	Thread: G x L	Compressive load in N	Spring deflection in mm
0862 800 030	20	20	M6 x 16 mm	100	1.2
				300	3.9
				500	5.1
0862 800 031	30	20	M8 x 23 mm	200	1.4
				400	2.3
				600	3.2
0862 800 032	40	30	M8 x 23 mm	200	1.4
				600	3.4
				1000	4.8
0862 800 033	50	30	M10 x 28 mm	600	2.2
				1200	4.3
				1800	6.2

Ventilation Duct Components

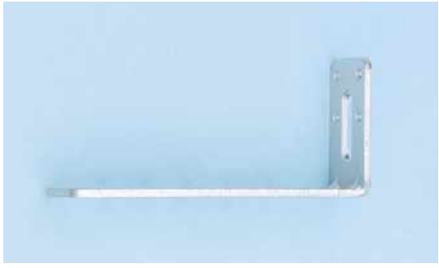


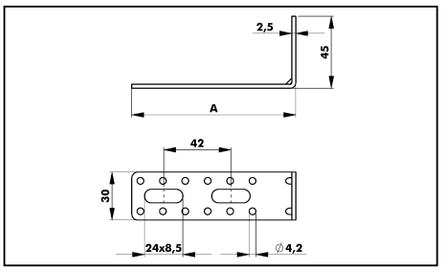


Designation	For threaded rod	Length A in mm	Art. No.	P. Qty.
Ventil. Angle Bracket, Shape L	M 8	58	**0862 507 0**	50
Ventil. Angle Bracket, Shape L	M 8	100	**0862 508 0**	
Ventil. Angle Bracket, Shape L	M 8	130	**0862 509 0**	
Ventil. Angle Bracket, Shape L	M 10	100	**0862 511 0**	

Air-Duct Installation Angle Bracket, Shape L

- Properties as for shape Z.
- Installation directly on ceiling also possible.
- Load value: 500 N.



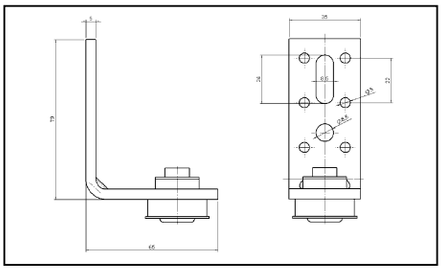


Designation	Length A in mm	Art. No.	P. Qty.
Ventilation Angle Bracket, Shape L	58	**0862 504 0**	100
Ventilation Angle Bracket, Shape L	100	**0862 505 0**	
Ventilation Angle Bracket, Shape L	130	**0862 506 0**	

Air-Duct Installation Angle Bracket, Shape L

without noise insulation element

- For suspending air ducts with M8 threaded rod.
- Installation directly on ceiling also possible.
- Load value: 500 N.
- Material: galvanised steel.

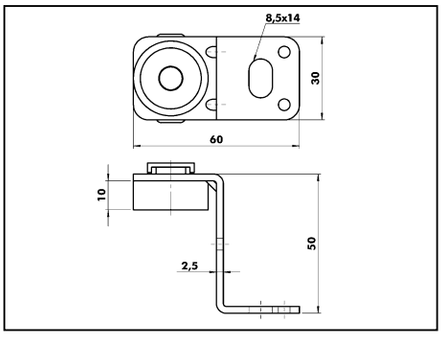


Designation	Threaded rod	Art. No.	P. Qty.
Ventilation Angle Bracket, Shape L for duct installation	M10	**0862 512 001**	15

Air-Duct Installation Angle Bracket, Shape L

for duct installation

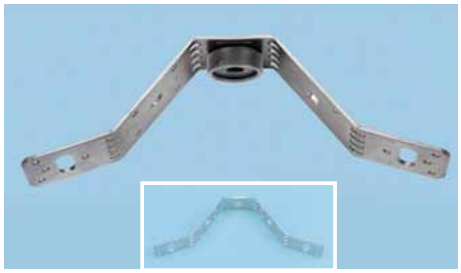
- Multiple holes mean convenient installation of riser ducts.
- The bracket can be attached to Varifix brackets.
- Integrated noise insulation element.
- Installation directly on ceiling also possible.
- Load value: 800 N.
- Material: galvanised steel, 5 mm.

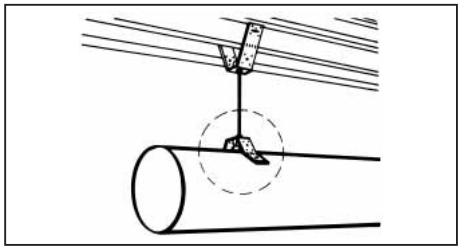


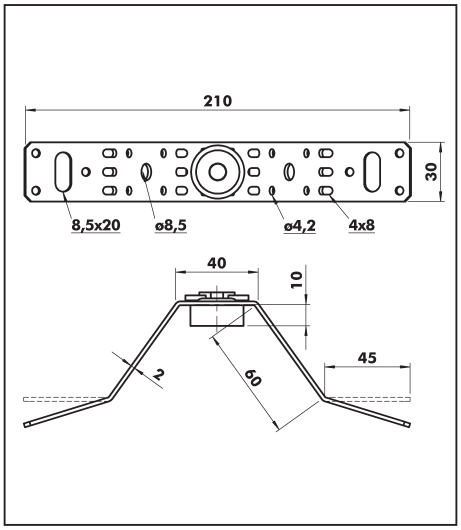
Designation	For threaded rod	Art. No.	P. Qty.
Ventilation Angle Bracket, Shape Z	M 8	**0862 502 0**	50
Ventilation Angle Bracket, Shape Z	M 10	**0862 503 0**	

Air-Duct Installation Angle Bracket, Shape Z

- For suspending air ducts with M8 and M 10 threaded rods.
- Integrated noise insulation element.
- Securing on structure by means of rivets or Zebra pias screws.
- Height adjustment via threaded rods.
- Load value: 500 N.
- Material: galvanised steel.



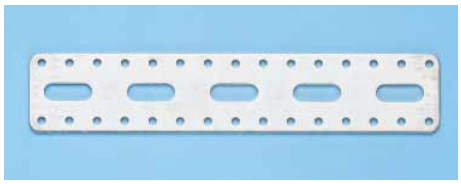


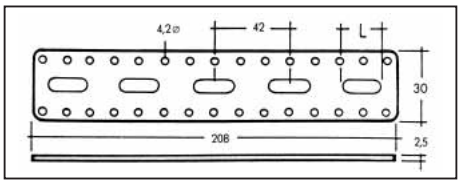


Air Duct Mount

- Material: galvanized steel.
- Securing on air ducts by means of rivets or Zebra pias screws.
- Easy adjustment to different air duct profiles thanks to specified bending points.
- With or without noise insulation element.
- Load value: 1,500 N.

Designation	For threaded rod	**Art. No.**	P. Qty.
Air Duct Mount without Noise Protection	M 8	**0862 518 0**	60
Air Duct Mount with Noise Protection	M 8	**0862 520 0**	40
Air Duct Mount with Noise Protection	M 10	**0862 521 0**	

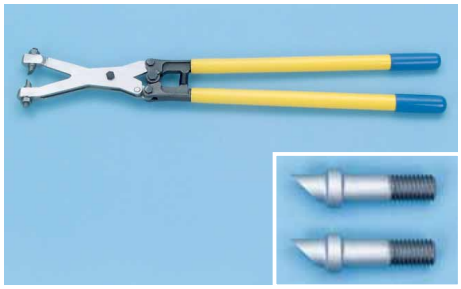


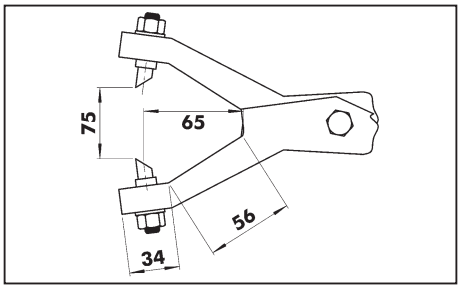


Extension Piece

- For extending installation angle brackets, shape L.
- Material: galvanized steel.
- Caution: not compatible with air duct elbow, shape L in heavy-duty design.

Designation	**Art. No.**	P. Qty.
Extension Piece Shape G	**0862 513 0**	100

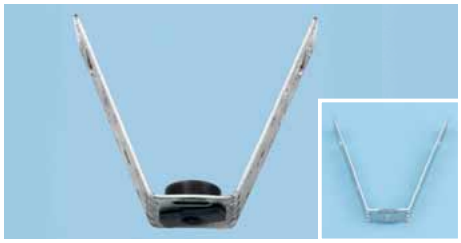


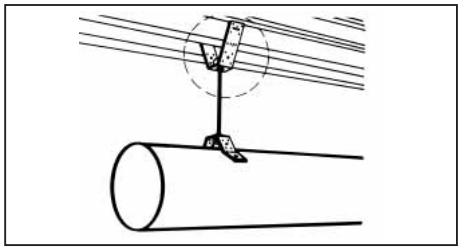


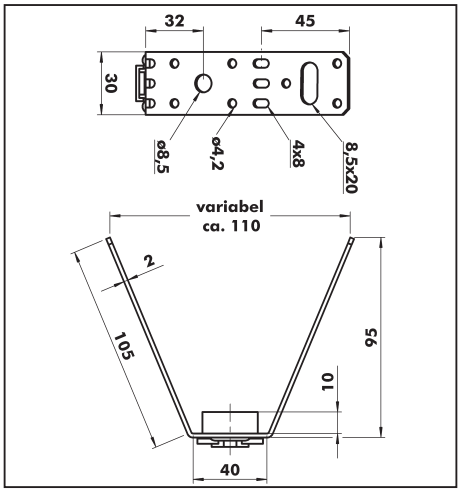
Trapezoidal Hole Punch

- Hole Punch for trapezoidal plates up to 1.25 mm thick.
- For screwing on trapezoidal mount up to 10 mm diameter.

Designation	**Art. No.**	P. Qty.
Trapezoidal Hole Punch incl. Punch	**0862 500 000**	1
Punch, 10 mm (1 set) for Hole Punch	**0862 500 001**	2



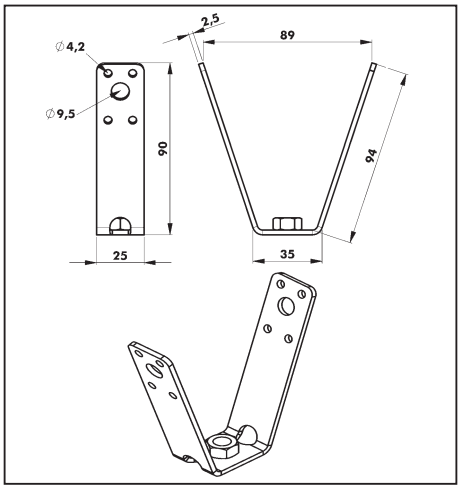




Trapezoidal Mount

- Material: galvanized steel.
- Easy adjustment to different trapezoidal plate profiles thanks to specified bending points.
- Securing on trapezoidal plate by means of rivets or Zebra pias screws.
- Oval holes in leg ends enable installation with threaded rods or hexagon bolts.
- With or without noise insulation element.
- Load value: 1,500 N.

Designation	For threaded rod	**Art. No.**	P. Qty.
Trapez. Mount without Noise Protection	M 8	**0862 514 0**	100
Trapez. Mount without Noise Protection	M 10	**0862 515 0**	
Trapez. Mount with Noise Protection	M 8	**0862 516 0**	50
Trapez. Mount with Noise Protection	M 10	**0862 517 0**	



Trapezoidal Mount
with pressed-in nut

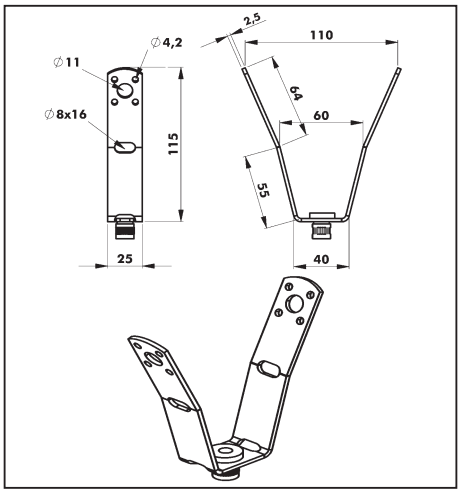
VdS Acceptance No.
G 4021037

VdS

Application:
Fastening installations on trapezoidal plates.

- For trapezoidal plate ceiling systems.
- Fastening by means of push-through mounting with M8 threaded rod.
- Also possible with 4.0 mm AlMg 5 sealing rivets (DIN 1725) or 4.2 mm drilling screws of case-hardened steel.
- Approved by VdS for fastening pipes up to DN 50.
- The maximum permissible load is dependent on the trapezoidal plate thickness.

Type	Weight in kg	**Art. No.**	P. Qty.
M 8	0.096	**0862 514 001**	50
M 10	0.096	**0862 515 001**	



Trapezoidal Mount
with knurled nut

VdS Acceptance No.
G 4880021

VdS

Application:
Fastening installations on trapezoidal plates.

- For trapezoidal plate ceiling systems.
- Fastening by means of push-through mounting with threaded rod M8 x 100 or hexagon bolt M8 x 100.
- Also possible with 4.0 mm AlMg 5 sealing rivets (DIN 1725) or 4.2 mm drilling screws of case-hardened steel (no VdS approval).
- Approved by VdS for fastening pipes up to DN 50.
- With adjustment nut for height adjustment.

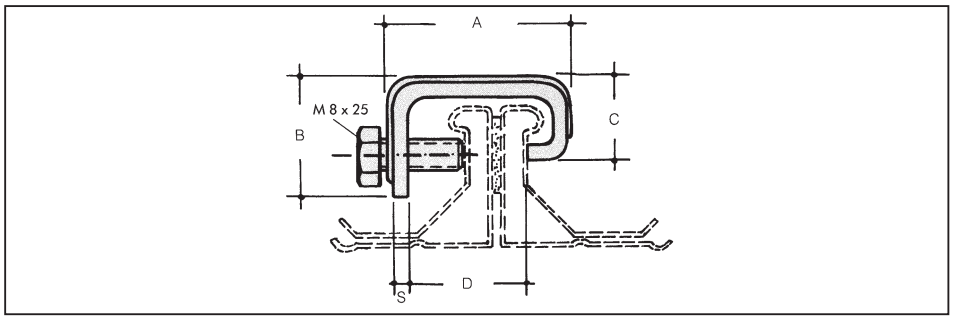
Type	Weight in kg	**Art. No.**	P. Qty.
M 8	0.096	**0862 514 002**	50
M 10	0.096	**0862 515 002**	

Ventilation Duct Components

Ventilation Duct Clamp

Ventilation duct clamp for connecting flanged systems of low and medium-pressure systems

- Max. load (contact pressure): 1.5 kN.



Designation	Weight g/pc.	Material	Bolt	A mm	B mm	C mm	D mm	S mm	**Art. No.**	P. Qty.
Ventilation duct clamp	53	Galv. steel	M8x25 mm mounted	35	20	17	23	3	**0862 007 001**	100

Advantage / Benefit

- Connecting element for large duct cross-sections
  Your advantage:
  Can be used for low and medium-pressure systems.
- Double ribbing over bending edges
  Your advantage:
  High quality and strength.
- Quick and easy mounting
  Your advantage:
  Eliminates costs for pre-clamping and drilling holes.

Installation recommendation: Ventilation duct clamp

Duct edge length in mm	**Operating pressure** in mm WS up to 63	63–160	160–250	250–400
	No. of clamps			
100	–	–	1	1
200				
300				
400				
500				
600	1	2	2	2
700				
800				
900				
1000				
1100	2	2	3	3
1200				
1300				
1400				
1500	2	3	4	4
1600				
1700				
1800				
1900				
2000				
2100	3	4	5	5
2200				
2300				
2400				
2500				
2600				
2700				
2800				

1 mm WS = 10 Pa

Installation Ranges

Varifix Gas Meter Attachment

Art. No. 0862 009 100

P. Qty. 1 Set

Advantage / benefits

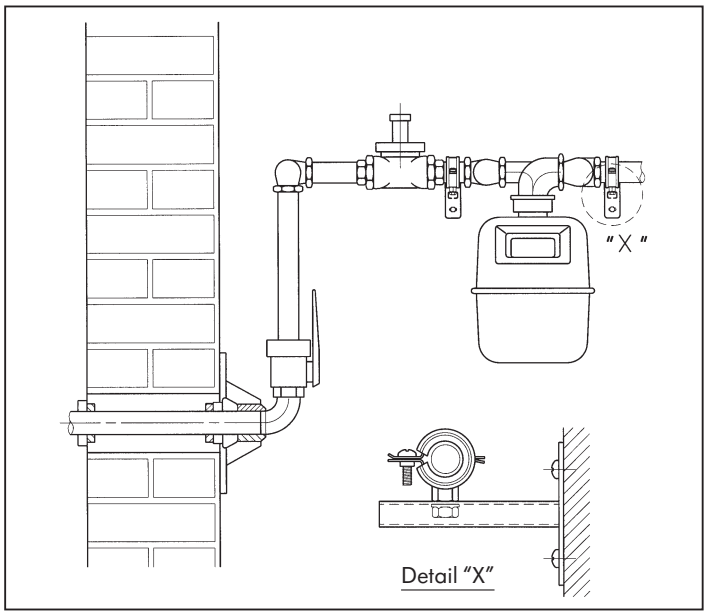
- Variable wall spacing can be set.
- Reliable holding of the gas meter.
- Correct attachment in acc. with TRGI.

Set contents

- 2 Varifix consoles 200 mm
- 2 TIPP pipe clamps
- 2 hammerhead screws prefitted
- 2 Varifix plugs
- 4 strap screws 6 x 60
- 4 metal anchors Multi-purpose dowel
- 4 washers.

Application

For fast and reliable attachment of single-pipe gas meters.



Installation instructions

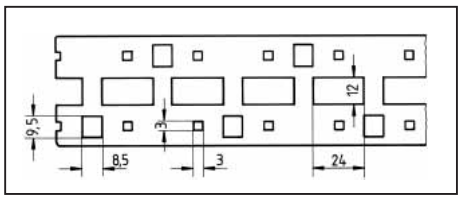
Installation of single-pipe gas meters

Varifix Multiprofil

Technical data

Sendzimir galvanised Steel Strip

Dimensions	Length	1984 mm
	Width	50 mm
	Thickness	3 mm



Application

The multiprofile has universal application in pre-assembly and the assembly at all the profile rack works due to easy reveting or screwing (Würth Pias®).

For various pipe systems, valves as well as wall discs.
Can be used for all common sanitary bore hole gauges. Unlimited application of multi-profile due to practice oriented system.

Advantages

- Few assembly components (max. 2 pieces).
- The special mounting plate.
- With thread reduction M4.
- With thread reduction M5.
- With thread reduction M8.

Benefits

- Easy tightening of screws.
- No locking with nut behind the mounting rail.
- Elaborate fastening with shims is not required.
- For connections and mounting valves.
- For mounting fittings.
- For pipe installation.

Product designation	Application	Art. No.	P. Qty.
Multi profile	Front wall installation	**0862 090**	10 m of 2 m
Mounting plate with thread rim hole M4 + countersunk screw M4 x 22	for connections and Valve mounting	**0862 094**	200
Mounting plate with threaded rim holeM8	for pipe installation	**0862 098**	200
Mounting plate with threaded rim hole M5	for the mouting fittings	**0862 095**	50
Studs with M8 thread	Spacer for Pipe clamps	**0862 120 7*** **0862 120 9*** **0862 120 11***	100
Universal cubes M8	for modifying connections and replication	**0543 98***	10
Bending wrench	for edging the profile	**0715 43 040**	1

* ORSY

Bending Wrench

for adapting to individual installation conditions.

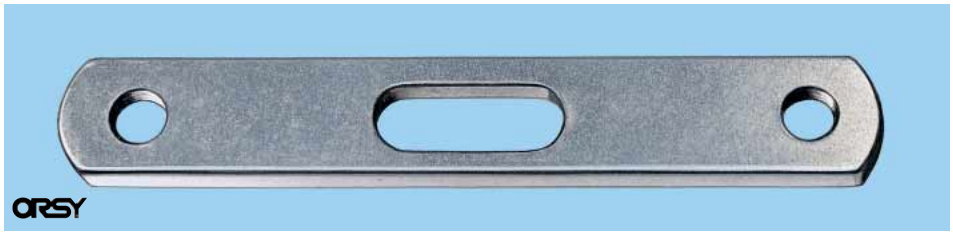
Art. No. 0715 43 040
P. Qty. 1

Mounting options for the multi-profile

Free form assembly e.g. Inglenook without spot drilling of the chimney.

Can be mounted on all profile rack works with the proven
Pias® Screws
Art. No. 0211 29 16*
Pias® Rivets
Art. No. 0936 24 4*

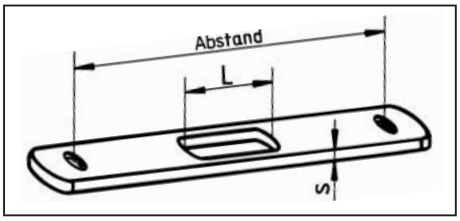
* ORSY



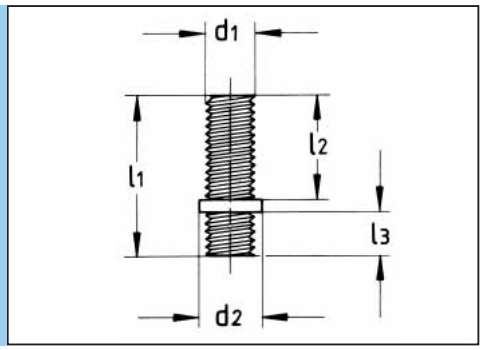
Double Bracket

Material: Galvanized steel

- Use, e.g. supply, return pipe installation.



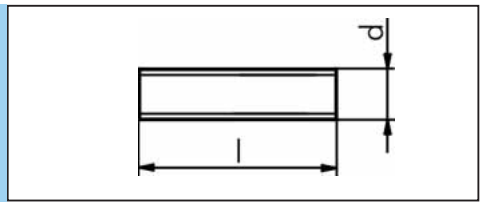
Distance conn. thread in mm	Material-thickness S in mm	Threaded connection	Oblong hole L in mm	Breaking load value in N	**Art. No.**	P. Qty.
65	5	M8	24 x 9	1400	**0862 120 3**	50
85				1200	**0862 120 4**	
105				800	**0862 120 5**	



Stud Bolt

- As branches from mounting cube for pipe clamps in plumbing.
- For direct suspension in conjunction with pound-in plug and pipe clamp.

d_1 in mm	d_2 in mm	L_1 in mm	L_2 in mm	L_3 in mm	**Art. No.**	P. Qty.
6	8	18	8.5	8.5	**0234 16 18**	100
8	10	26	17.0	7.0	**0234 18 26**	



Threaded Piece

according to DIN 976 Shape A

Galvanized steel 4.6, blue passivated

- As a connector complete with screwed-on sliding nut between mounting rail and head.
- As a branch from mounting cube for pipe clamps in plumbing.
- For direct suspension in conjunction with pound-in plug and pipe clamp.

Thread dia. d	l in mm	Steel 4.6 galv., blue passivated **Art. No.**	P. Qty.
M8	30	**0958 98 30**	100
	35	**0958 98 35**	
	40	**0958 98 40**	
	45	**0958 98 45**	
	50	**0958 98 50**	
	55	**0958 98 55**	
	60	**0958 98 60**	
	70	**0958 98 70**	
	80	**0958 98 80**	50
	90	**0958 98 90**	
	100	**0958 98 100**	

Thread dia. d	l in mm	Steel 4.6 galv., blue passivated **Art. No.**	P. Qty.
M10	30	**0958 910 30**	50
	35	**0958 910 35**	
	40	**0958 910 40**	
	45	**0958 910 45**	
	50	**0958 910 50**	
	55	**0958 910 55**	
	60	**0958 910 60**	
	70	**0958 910 70**	25
	80	**0958 910 80**	
	90	**0958 910 90**	
	100	**0958 910 100**	

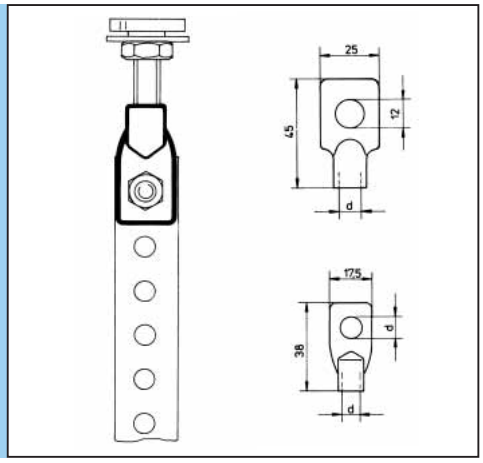
Stud

with shank

Material: Galvanized steel

- For double bracket and universal cube.

Dim. dia. x L in mm	**Art. No.**	P. Qty.
M8 x 25	**0862 120 7**	100
M8 x 45	**0862 120 9**	
M8 x 65	**0862 120 11**	



Mounting Eyes and Pipe Fastening Eyes

Material: die-cast zinc

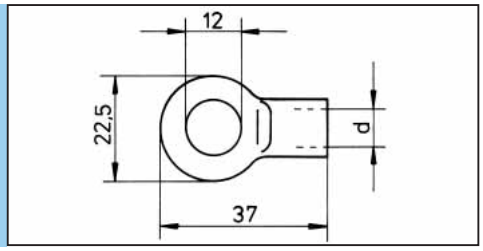
Fastening with punched tape possible when installing a section of pipe with a mounting rail by screwing on the mounting eye.

Fastening options:
mounting rail, hammer-head screw, mounting eye, punched tape.

- For secondary attachments only.
- Die-cast zinc should not be heated above 80°C.

Mounting Eyes

Inside thread dia. d in mm	Length in mm	Outside dia. in mm	**Art. No.**	P. Qty.
M 6	45	12	**0862 116 12**	100
M 10			**0862 111 012**	
M 6	38	9	**0862 116 9**	
M 8			**0862 118 9**	

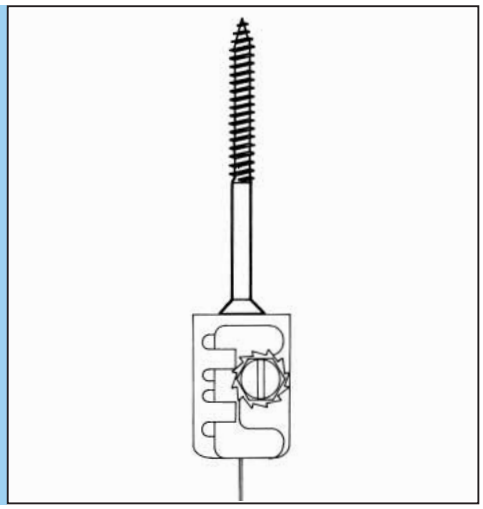


Pipe Fastening Eyes

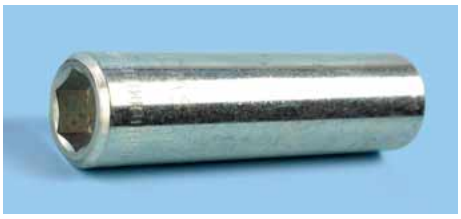
Inside thread dia. d in mm	Length in mm	Outside dia. in mm	**Art. No.**	P. Qty.
M 6	37	12	**0862 116 37**	100
M 8			**0862 118 37**	
M 10			**0862 111 037**	

Shoulder Screws

- Galvanized.
- With wood thread.



Dimensions in mm	**Art. No.**	P. Qty.
M 8 x 50	**0234 18 50**	300
M 8 x 80	**0234 18 80**	150
M 8 x 120	**0234 18 120**	75



Ceiling Hooks

Areas of application

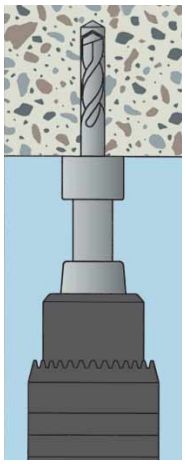
- For the rapid hanging of knotted link chains with a thickness of up to 3.2 mm.
- For the mounting of continuous roof-lights, lamps, lighting rails, etc.

Material properties

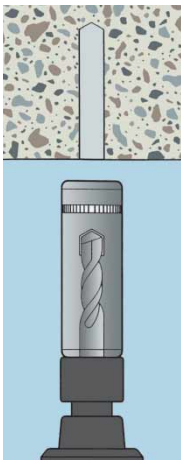
- Ceiling hooks: Galvanised steel.
- Maximum load: 0.5 kN.
- Further data relating to the W-SD M6 impact dowel can be found in the Dowel chapter.

Description	**Art. No.**	Pack Qty.
Individual ceiling hooks	**0862 221 001**	100
Insertion tool for impact dowels	**0905 700 508**	1
Impact dowels W-SD M6	**0905 700 400**	100

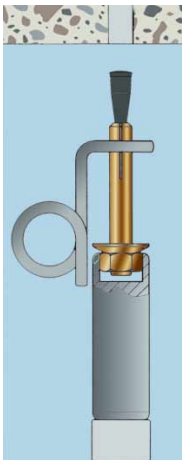
Insertion and mounting instructions



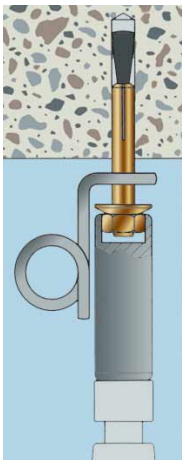
1. Drill hole.



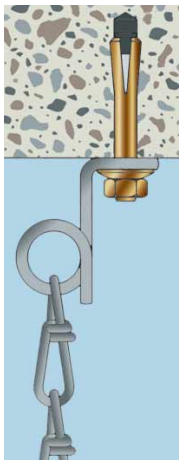
2. Move insertion tool into position.



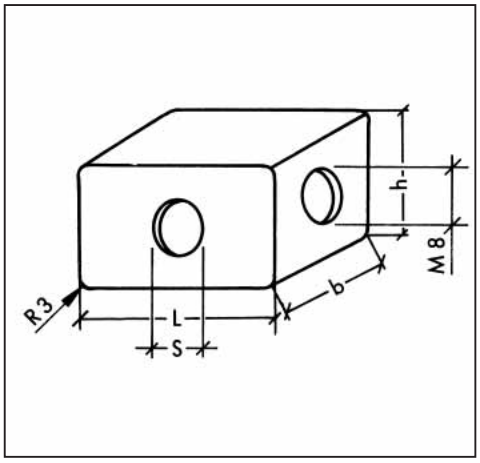
3. Set up impact dowel and ceiling hook.



4. Use the drill to mount the combined components in the hole.

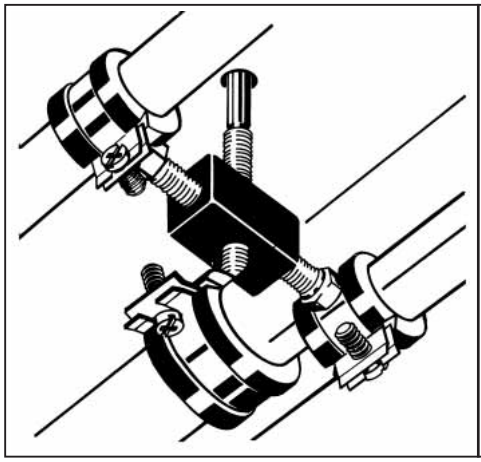


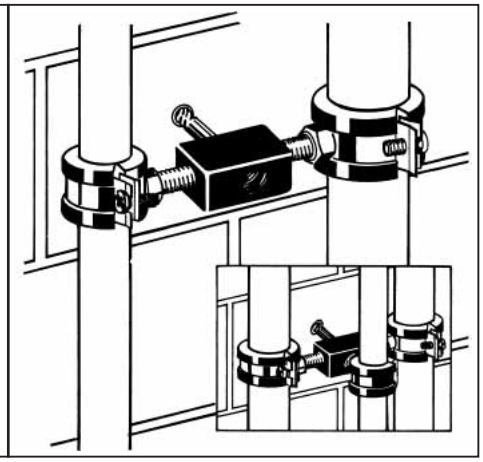
5. Attach knotted link chain.



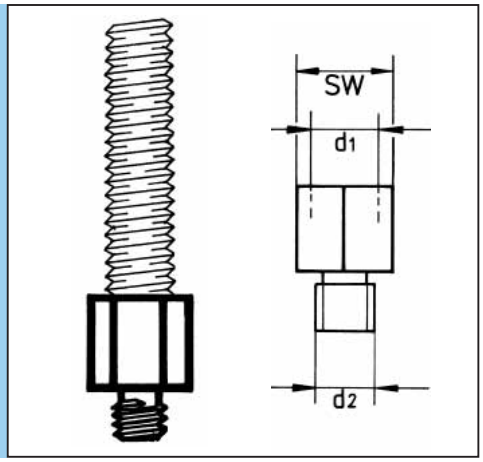
Universal Cube

- For pipe attachment in ceiling installation and riser pipe.
- If there are more than 3 pipes, use threaded piece with drive-in anchors instead of stud screw with nylon dowel.
- For rail mounting, screw hammer-head screw onto the cube and hang in the rail.





L in mm	b in mm	h in mm	s	**Art. No.**	P. Qty.
30	17	19	M 8	**0543 98**	10
30	17	19	M 10	**0543 910**	



Reducer Nipple

Connecting piece between fastening parts of different thread diameters, e.g. threaded rod M 10 and pipe clamp M 8.

Size in mm	Inside dia. d_1	Outside dia. d_2	**Art. No.**	P. Qty.
13	M 8	M 6	**0862 098 6**	100
13	M 10	M 8	**0862 091 08**	
13	M 8	M10	**0862 091 09**	
17	M 12	M10	**0862 091 210**	