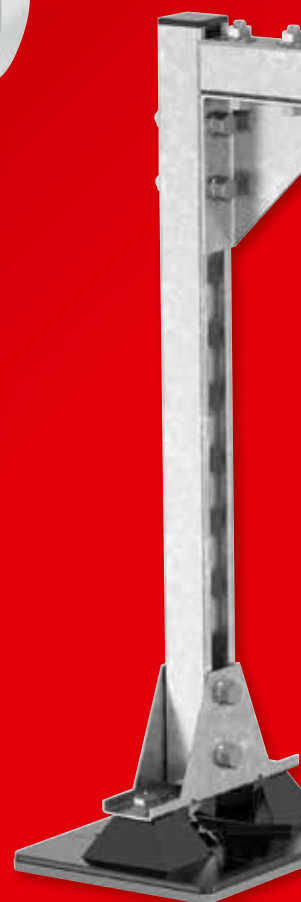


6. ■

Hot-Dip Galvanized Mounting Material

The range of Flamco hot-dip galvanized mounting material is ideal for outdoor use. Professionals who need high strength rail structures need look no further than Flamco's STRUT range of brackets and fittings. The well-known Flamco Rail is available in hot-dip galvanised STRUT execution and combines perfectly with the mpad rooftop support set.

These heavy-duty fittings are designed specifically for use in the construction industry and consequently are more robust than those fittings typically used in central heating and cooling systems. For quickly and professionally installing outdoor wall mounts and roof constructions.



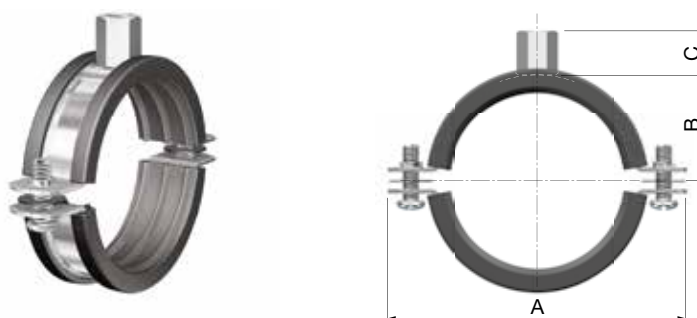


HDG CLIPS FOR ALL TYPES OF PIPE

BSI-HDI M 8/10 Clips

BSI-HDI clips are rubber lined, hot-dip galvanized universal clips for mounting all types of pipe to the wall or ceiling.

- The clip has one or more strengthening ribs to achieve a strong working load.
- Close fitting possible.
- Stainless steel bolts with slot and cross head and retaining ring.
- Noise-suppressing rubber strip: 17 dB(A) according to ISO 3822-1.
To achieve maximum sound suppression do not overload the fitting.
- Safety margin for minimal breaking load (V) = 3.
- Clip: hot-dip galvanizing average > 55µm, min 45 µm.
- Suitable for temperatures -40 °C to +120 °C.
- BSI-HDI clips are compatible with pipe sizes according to DIN 2448 and DIN EN 1057.



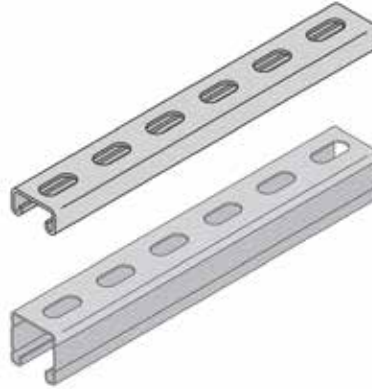
Type	Ø Pipe		Connection	Strip dimensions [mm]	Max. working load [N]	Dimensions				Order Code
	Ext. dia. [mm]	Nom. ["]				A [mm]	B [mm]	C [mm]		
BSI-HDI M 8/10 x 8 - 10	8 - 10	1/8	M 8/10	20 x 1.5	1000	53	13	16	50	38570
BSI-HDI M 8/10 x 12 - 14	12 - 14	1/4	M 8/10	20 x 1.5	1000	58	15	16	50	38571
BSI-HDI M 8/10 x 15 - 19	15 - 19	3/8	M 8/10	20 x 1.5	1000	62	18	16	50	38572
BSI-HDI M 8/10 x 20 - 25	20 - 25	1/2	M 8/10	20 x 1.5	1000	69	21	16	50	38573
BSI-HDI M 8/10 x 26 - 30	26 - 30	3/4	M 8/10	20 x 1.5	1000	74	23	16	50	38574
BSI-HDI M 8/10 x 32 - 36	32 - 36	1	M 8/10	20 x 1.5	1000	81	26	16	50	38575
BSI-HDI M 8/10 x 38 - 43	38 - 43	1 1/4	M 8/10	20 x 1.5	1000	87	30	16	50	38576
BSI-HDI M 8/10 x 44 - 49	44 - 49	1 1/2	M 8/10	20 x 1.5	1000	94	33	16	50	38577
BSI-HDI M 8/10 x 50 - 55	50 - 55	-	M 8/10	20 x 1.5	1000	103	36	16	50	38578
BSI-HDI M 8/10 x 56 - 61	56 - 61	2	M 8/10	20 x 1.5	1000	106	39	16	50	38579
BSI-HDI M 8/10 x 62 - 67	62 - 67	-	M 8/10	20 x 2.0	1300	113	42	16	50	38580
BSI-HDI M 8/10 x 68 - 73	68 - 73	2 1/4	M 8/10	20 x 2.0	1300	123	45	16	50	38581
BSI-HDI M 8/10 x 75 - 80	75 - 80	2 1/2	M 8/10	20 x 2.0	1300	128	48	16	50	38582
BSI-HDI M 8/10 x 82 - 86	82 - 86	2 3/4	M 8/10	20 x 2.0	1300	134	51	16	50	38583
BSI-HDI M 8/10 x 87 - 92	87 - 92	3	M 8/10	20 x 2.0	1300	141	54	16	50	38584
BSI-HDI M 8/10 x 95 - 102	95 - 102	3 1/2	M 8/10	20 x 2.5	2150	158	58	16	50	38585
BSI-HDI M 8/10 x 108 - 116	108 - 116	4	M 8/10	20 x 2.5	2150	170	65	16	25	38586
BSI-HDI M 8/10 x 121 - 127	121 - 127	-	M 8/10	20 x 2.5	2150	185	70	16	25	38587
BSI-HDI M 8/10 x 131 - 141	131 - 141	5	M 8/10	20 x 2.5	2150	195	77	16	25	38588
BSI-HDI M 8/10 x 159 - 163	159 - 163	-	M 8/10	20 x 2.5	2150	215	88	16	25	38589
BSI-HDI M 8/10 x 165 - 169	165 - 169	6	M 8/10	20 x 2.5	2150	226	91	16	25	38590
BSI-HDI M 8/10 x 192 - 202	192 - 202	-	M 8/10	20 x 3.0	3000	265	107	16	25	38591
BSI-HDI M 8/10 x 210 - 220	210 - 220	8	M 8/10	20 x 3.0	3000	274	117	16	25	38592


STRUT RAIL

STRUT Rail

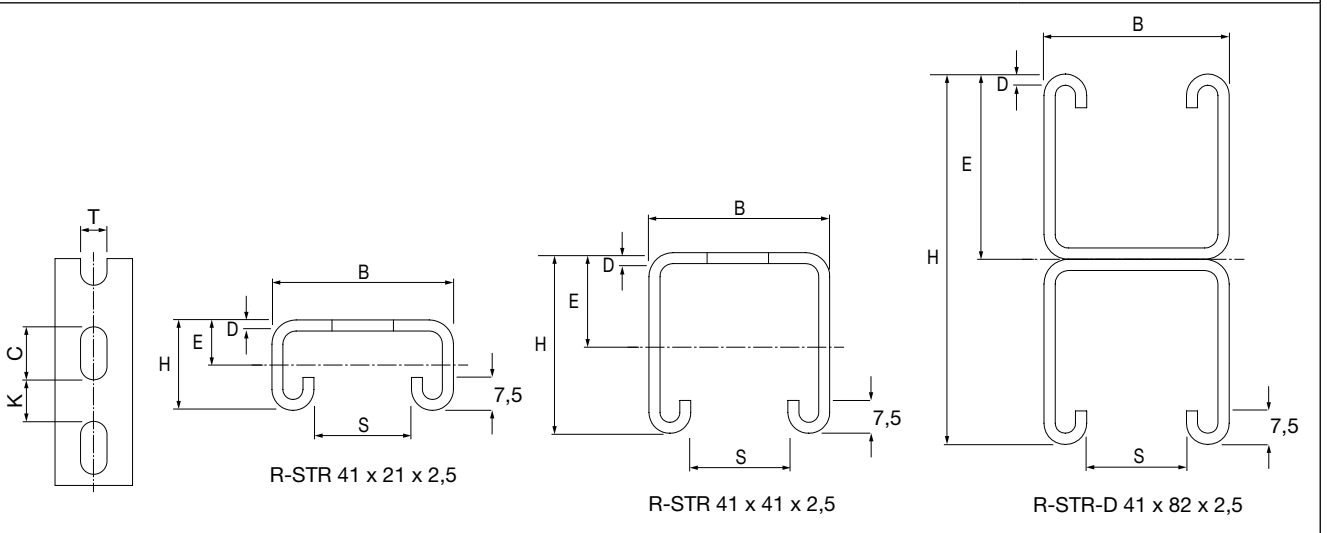
For quickly and professionally installing outdoor wall mounts and roof constructions. The Flamco rail is available in hot-dip galvanized STRUT execution and combines perfectly with the mpad rooftop support set.

- Hot-dip galvanized according to BS EN 1461:2009.
- Dimensions and tolerances in accordance with BS 6946:1988.
- With slotted holes 14 x 28 for adjustable mounting.
- Space between the holes: 50 mm.



Type	Stock Length [m]	Point load		Mb [Ncm]	Ix [cm ⁴]	Wx [cm ³]		Order Code
		Max. working load [N]	Rupture load [N]					
R-STR 41 x 21 x 2.5	3	1000	3000	15470	0.99	0.91	10	50948
R-STR 41 x 21 x 2.5	6	1000	3000	15470	0.99	0.91	10	50965
R-STR 41 x 41 x 2.5	3	3400	10200	49980	6.20	2.94	10	50931
R-STR 41 x 41 x 2.5	6	3400	10200	49980	6.20	2.94	10	50874
R-STR-D 41 x 82 x 2.5	6	10000	30000	153170	37.20	9.01	10	50864

Dimensions R-STR Rail

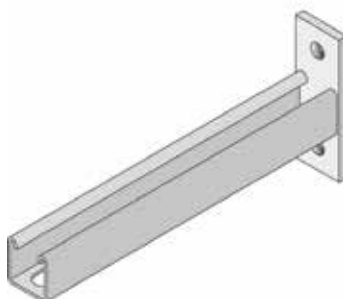


Type	Dimensions							
	B [mm]	C [mm]	D [mm]	E [mm]	H [mm]	K [mm]	S [mm]	T [mm]
R-STR 41 x 21 x 2.5	41	28	2.5	10	21	22	22	14
R-STR 41 x 41 x 2.5	41	28	2.5	20	41	22	22	14
R-STR-D 41 x 82 x 2.5	41	28	2.5	41	82	22	22	14

STRUT RAIL CONSOLES

STRUT Rail Consoles

- Hot-dip galvanized according to BS EN 1461:2009.



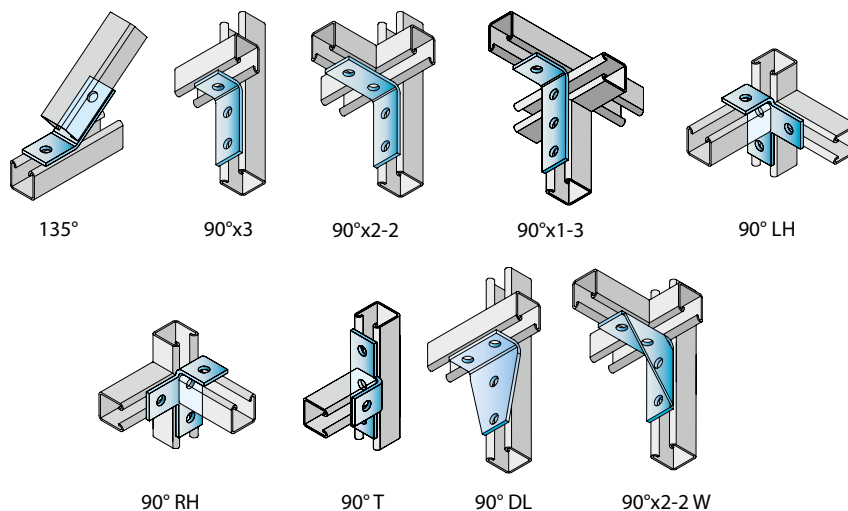
Type	Dimensions				Max. load at end point [N]		Order Code
	W. [mm]	H. [mm]	Th. [mm]	L. [mm]			
STRUT R41 x 300	41	41	2.5	300	1800	10	83030
STRUT R41 x 600	41	41	2.5	600	900	10	83060

STRUT RAIL CONNECTORS

STRUT HV Mounting Angles

To connect STRUT rails in every angle.

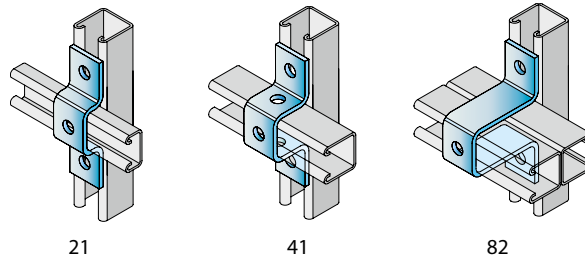
- Hot-dip galvanized according to BS EN 1461:2009.




Type	Number of holes (Ø 14 mm)		Shape		Order Code
STRUT HV 135° x 1-1	2	1 - 1	135°	50	83615
STRUT HV 90° T x 3-1	4	3-1	T-shape / 90°	25	83609
STRUT HV 90° DL x 3-1	4	2 - 2	Delta / 90° / large	25	83610
STRUT HV 90° x 1-2	3	1 - 2	90°	50	83603
STRUT HV 90° x 2-2	4	2 - 2	90°	50	83605
STRUT HV 90° x 1-3	4	1 - 3	90°	50	83606
STRUT HV 90° LH x 2-1-1	4	2 - 1 - 1	T-shape / 90° / Left handed	25	83607
STRUT HV 90° RH x 2-1-1	4	2 - 1 - 1	T-shape / 90° / Right handed	25	83608
STRUT HV 90° W x 2-2	4	2 - 2	Welded reinforcement / 90°	25	83612

STRUT UK Mounting Crosses

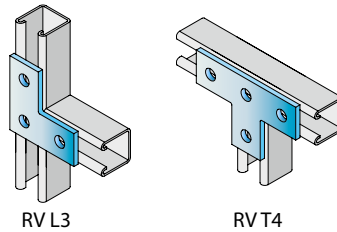
To connect two crossing STRUT rails.
 • Hot-dip galvanized according to BS EN 1461:2009.




Type	Rail type	Number of holes (Ø 14 mm)		Order Code
STRUT UK 21	21	3	25	83800
STRUT UK 41	41	5	25	83801
STRUT UK 82	82	3	10	83802

STRUT RV Flat Rail Connectors


• Hot-dip galvanized according to BS EN 1461:2009.

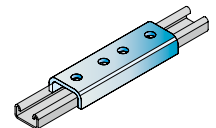


Type	Number of holes (Ø 14 mm)	Shape		Order Code
STRUT RV L3	3	L	50	83506
STRUT RV T4	4	T	50	83507

STRUT RL Rail Extensions

• Hot-dip galvanized according to BS EN 1461:2009.

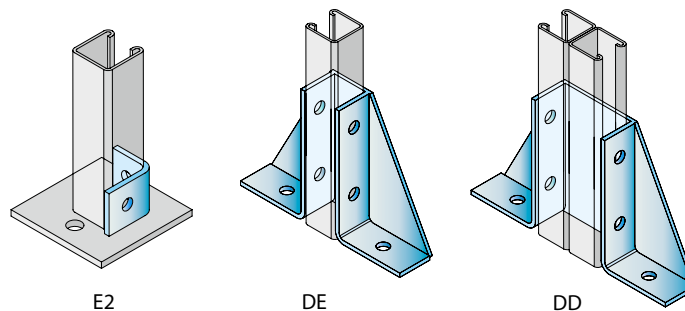
Type	Rail type	Finish		Order Code
STRUT RL 21 - 41 EXT	21 - 41	external	20	83807




STRUT VL FLOOR CONSOLES

STRUT VL Floor Consoles

Fixing STRUT rail to floors, walls and ceiling.
 • Hot-dip galvanized according to BS EN 1461:2009.




Type	Rail type	Number of holes (Ø 14 mm)	Finish		Order Code
STRUT VL E2	21 / 41	3	Single layer	25	83305
STRUT VL DE	41	6	Single delta	10	83307
STRUT VL DD	82	6	Double delta	10	83308

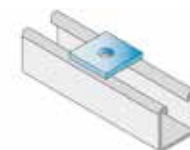


STRUT SP CLAMPING PLATES

STRUT SP Clamping Plates

- Hot-dip galvanized according to BS EN 1461:2009.

Type	Ø Hole	Bolt		Order Code
STRUT SP M 8	10	M 8	200	83002
STRUT SP M 10	12	M 10	200	83003




STRUT WASHERS

STRUT Washers

For easy mounting of a suspension in a STRUT Rail.

- Hot-dip galvanized according to BS EN 1461:2009.


Type	Connection		Order Code
STRUT Washers M 8	M 8	100	83930
STRUT Washers M 10	M 10	100	83931



STRUT TAP BOLTS

STRUT Tap bolts

- In accordance with DIN 933.
- ISO fitted.
- Steel grade: 8.8.
- Hot-dip galvanized according to BS EN 1461:2009.

Type	Connection	Length [mm]		Order Code
STRUT Tap bolt M 8 x 20	M 8	20	100	83940
STRUT Tap bolt M 8 x 35	M 8	35	100	83942
STRUT Tap bolt M 8 x 55	M 8	55	100	83944
STRUT Tap bolt M 10 x 20	M 10	20	100	83941
STRUT Tap bolt M 10 x 35	M 10	35	100	83943
STRUT Tap bolt M 10 x 55	M 10	55	100	83945




STRUT NUTS

STRUT Nuts

For easy mounting of a suspension in a STRUT Rail.

- In accordance with DIN 934-8.
- ISO fitted.
- Hot-dip galvanized according to BS EN 1461:2009.

Type	Connection		Order Code
STRUT Nut M 8	M 8	100	83935
STRUT Nut M 10	M 10	100	83936




STRUT THREADED RODS

STRUT Threaded rods

For all fixings and constructions requiring threaded rod.

- In accordance with DIN 976.
- ISO fitted.
- Steel grade: 4.8.
- Hot-dip galvanized according to BS EN 1461:2009.

Type	Connection		Order Code
STRUT Threaded rod M 8 x 1000	M 8	50	83950
STRUT Threaded rod M 10 x 1000	M 10	100	83951



STRUT HBS HAMMER HEAD BOLT SET AND SR SLIDING NUTS

STRUT HBS Hammer head bolt set

For easy mounting of a suspension in a STRUT Rail.

- Hot-dip galvanized according to BS EN 1461:2009.

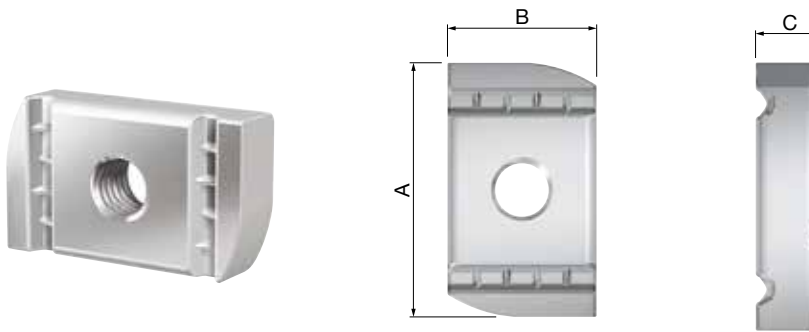
Type	Connection		Order Code
STRUT HBS M 8 x 40	M 8 x 40	50	83925




STRUT SR Sliding Nuts

Extra strong version (STRUT) for the easy mounting of a suspension in STRUT rail.

- Hot-dip galvanized according to BS EN 1461:2009.

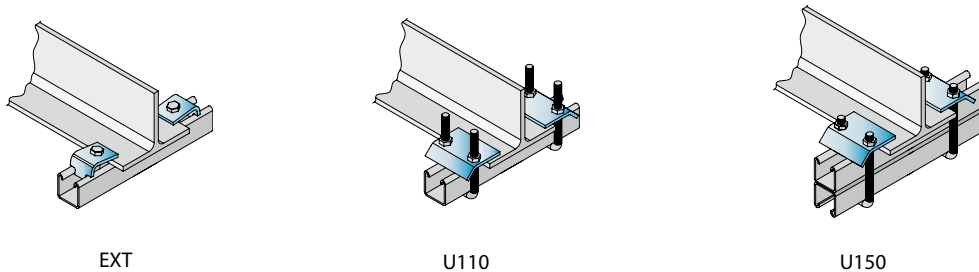



Type	Connection	Dimensions				Order Code
		A [mm]	B [mm]	C [mm]		
M 8 SR	M 8	34.5	20	8	100	80312
M 10 SR	M 10	34.5	20	9	100	80313

STRUT PROFILE FIXINGS

STRUT RP Profile Fixings

- Hot-dip galvanized according to BS EN 1461:2009.
- Beam clamps should be used in pairs to achieve maximum working load.



Type	Rail type	Finish	Max. working load (pair) [N]		Order Code
STRUT RP EXT	21-41	external, with clamping plate in rail slot	2700	100	83400
STRUT RP U110	21-41	u-shape (L=110)	4500	25	83411
STRUT RP U150	82	u-shape (L=150)	4500	25	83415

Flamco mpad Rooftop Support

Flamco has added the Flamco mpad Rooftop Support set to its product range. A useful, sturdy and complete rooftop support set for STRUT rail constructions on flat roofs, ideally suited for:

- Air conditioning installations
 - Outdoor pipework
 - Air ducts
 - Walkways
 - Cable trays
- and much more.

The set consists of an attachment plate, a rail attachment component with related accessories (bolts, nuts and washers) and a foam mat. The attachment plate is made from UV-resistant polycarbonate with added carbon black, is lightweight and yet very strong, and performs very well under large temperature changes.



The Flamco mpad Rooftop Support set consists of the following components:

ATTACHMENT PLATE

- Polycarbonate with added carbon black.
- UV-resistant.
- Reacts well to extreme heat and temperature changes (unlike other plastics and fibreglass).
- Excellent strength to weight ratio.

RAIL ATTACHMENT PART

- Hot-dip galvanised steel (min. galvanising thickness 45 µm).
- Includes stainless steel washers, nuts and bolts.

FOAM MAT

- Polyolefin foam.
- Antiskid and vibration reducing.
- Prevents damage to the roof (covering).

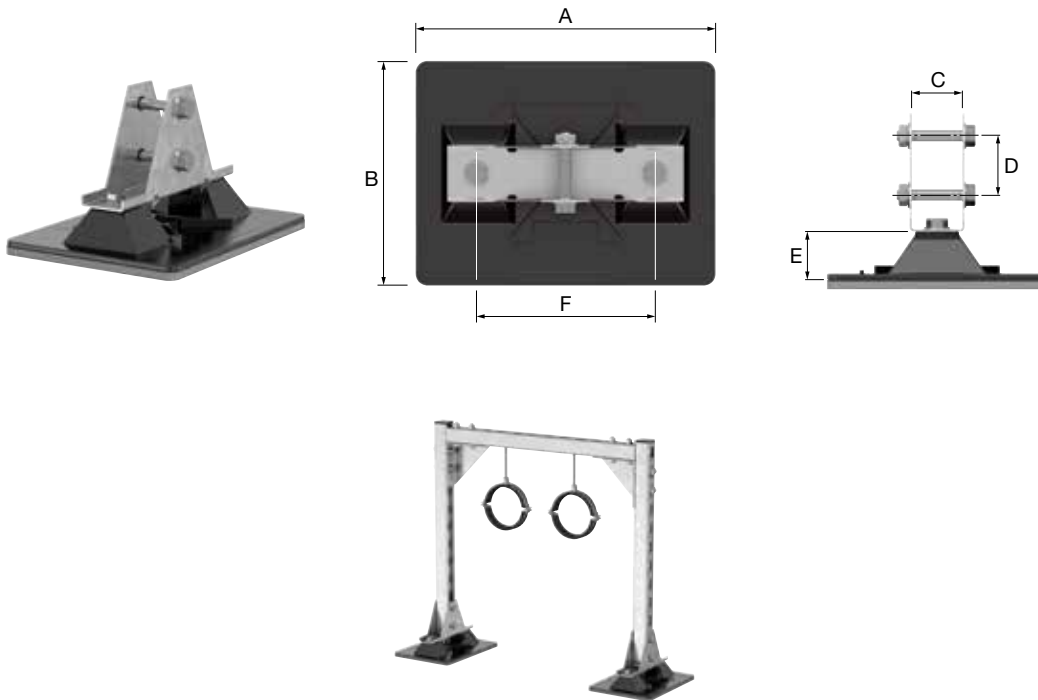
ROOFTOP SUPPORT


Flamco mpad Rooftop support

Rooftop support set for mounting on flat roofs.

- Suitable for STRUT Rail R-STR 41 x 41.
 - Suitable for temperatures -20 °C to +100 °C.
 - Foam mat: Antiskid and vibration reducing polyolefins foam.
 - Rooftop support: Polycarbonate with added carbon black. UV resistant.
Reacts well to extreme heat and temperature changes (unlike other plastics and fibre glasses).
Excellent strength to weight ratio.
 - Steel part: Mild steel with hot-dip galvanized finish. Minimal thickness 45 µm.
- Each Flamco mpad1 set consists of the following parts:
foam mat (1)
plastic mounting plate (1)
hot-dip galvanized steel part (1)
stainless steel washer M10 (6)
stainless steel bolt M10 x 20 (2)
stainless steel bolt M10 x 60 (2)
stainless steel nut M10 (2)

Packaging contains 2x Flamco mpad1 sets.



Type	Max. vertical load [N] (per pair)	Dimensions						Weight [kg]		Order Code
		A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]			
Flamco mpad1	1000	253	190	41	51	42	151	0.935	2	71850