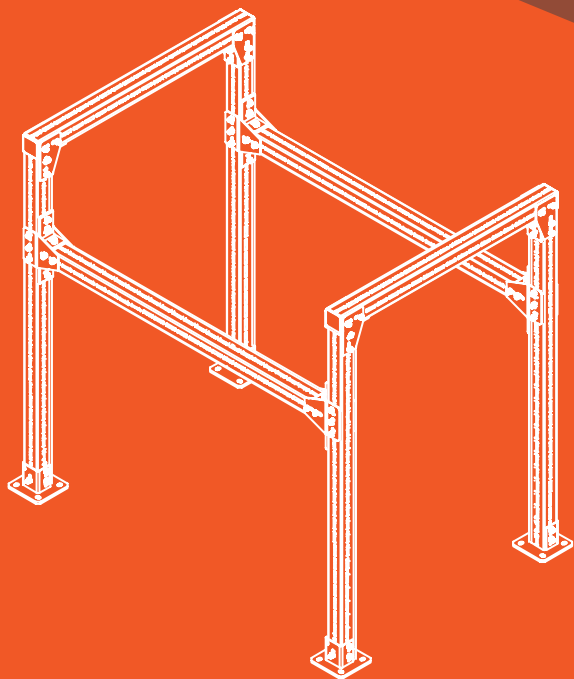




Technical
Product Specifications:

MODFRAME

Approval/calculation possibilities:

- RAL-GZ-655
- NZS 1170.5:2004
- NZS 4219:2009
- NZS 4541:2020
- AS/NZ 4680:2006



HEAVY DUTY MODULAR FRAMING

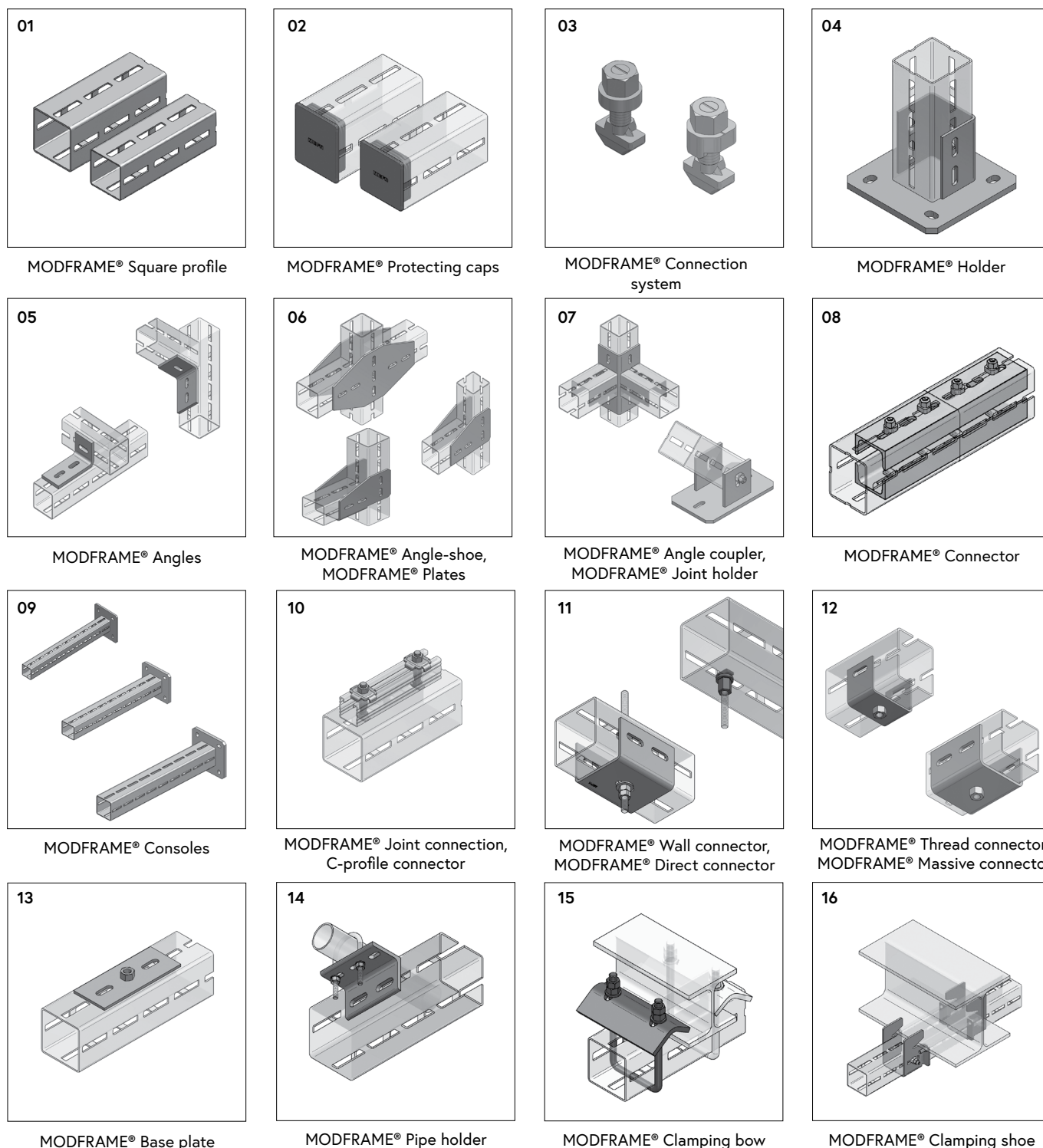
- ✓ *HVAC Support Systems*
- ✓ *Cable Support Systems*
- ✓ *Pipe Support Systems*
- ✓ *Fire Support Systems*
- ✓ *Mezzanine Floors*



Advantages of using MODFRAME®

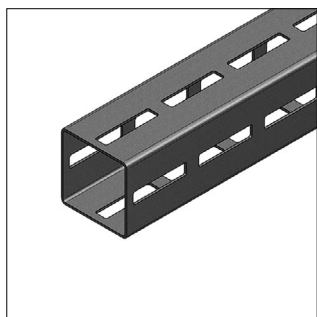
- Eliminates the need for welding, drilling and galvanizing.
- Gain up to 60% time savings and significantly reduced material weights.
- A standard range of system components are stocked and readily available.
- All components are Hot Dipped Galvanized.
- Its modular nature means site modifications are easily completed.
- Frames, supports and modules can be designed by the FDG Team to be fully compliant with AS/NZ 4219: 2009.

Component List

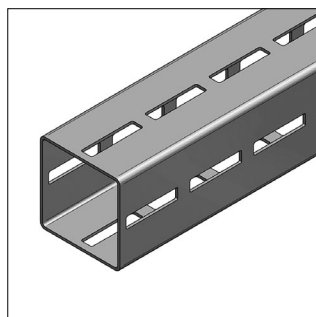


Component safety concept: According DIN EN 1991-1		
Global safety coefficient γ The evaluation of global safety coefficient for the value of impact is based on a ratio of 2/3 of tare weight and 1/3 of working load. $\gamma = (2/3 \gamma_G + 1/3 \gamma_Q) \times \gamma_Z = (2/3 \times 1.35 + 1/3 \times 1.50) \times 1.1 = 1.54$ Exceptions MODFRAME® screwing acc. RAL GZ 655-D $\gamma = 2.0$	Safety for impact Safety tare weight $\gamma_G = 1.35$ Safety working load $\gamma_Q = 1.50$	
	Safety for resistance Safety load resistance $\gamma_Z = 1.10$	

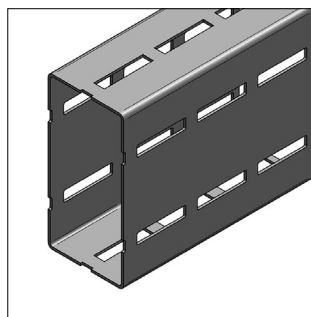
MODFRAME® Square Profile



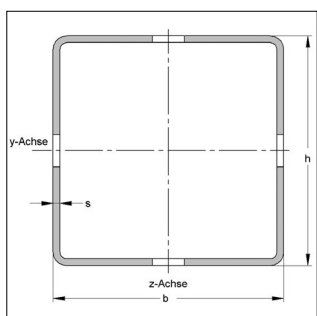
MODFRAME® profile MOD 80



MODFRAME® profile MOD 100



MODFRAME® profile MOD 200



Description of system:

- Modular system
- 4-sided without raster in connection with mounting parts
- Torsion stiffness
- High load capacity

Technical data:

Material:	Steel
Material type:	(MOD80: S275), (MOD100: S275), (MOD200:S235)
Surface:	Hot-Dip Galvanized according to AS/NZS 4680:2006

Identification	Dimensions h x b [mm]	Profile thickness s [mm]	Perforation	Length L [m]	Weight [kg/m]	Part-No.
MODFRAME® profile MOD 80	80 x 80	2.5	4-sided	6	5.51	MOD80HDG
MODFRAME® profile MOD 100	100 x 100	3	4-sided	6	8.46	MOD100HDG
MODFRAME® profile MOD 200	200 x 100	5	4-sided	6	20.46	MOD200HDG

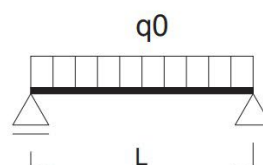
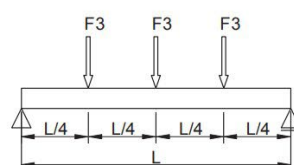
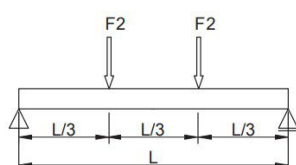
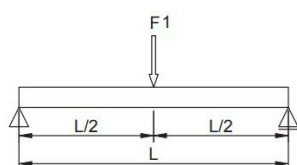
MODFRAME® overview technical values

Identification	Cross-section area A_k cm ²	Section modulus of torsion W_t cm ³	Geometrical moment of inertia I_{y-y} I_{z-z} cm ⁴		Section modulus W_{y-y} W_{z-z} cm ³		Gyration radius i_y i_z cm	
MODFRAME® Profile MOD 80	6.19	36.04	64.51	64.51	16.13	16.13	3.23	3.23
MODFRAME® Profile MOD 100	9.73	56.40	157.14	157.14	31.43	31.43	4.02	4.02
MODFRAME® Profile MOD 200	24.15	185.25	1255.68	433.47	125.56	86.69	7.21	4.24

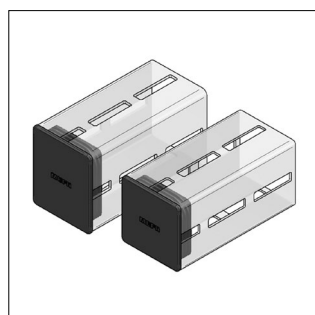
Load values for MODFRAME® profile rails can be found on page 5.

Load values MODFRAME® profile rails

bearing space	MOD 80				MOD 100				MOD 200			
	single load 1xF1	double load 2xF2	triple load 3xF3	distributed load 1xF1	single load 1xF1	double load 2xF2	triple load 3xF3	distributed load 1xF1	single load 1xF1	double load 2xF2	triple load 3xF3	distributed load 1xF1
	[mm]	[kN]	[kN]	[kN/m]	[kN]	[kN]	[kN]	[kN/m]	[kN]	[kN]	[kN]	[kN/m]
500	23.03	17.28	11.52	92.12	44.88	33.66	22.44	162.54	179.33	129.69	86.46	518.76
700	15.35	11.51	7.68	40.91	29.91	22.43	14.96	79.74	119.51	89.63	59.76	318.69
1000	11.50	8.63	5.75	22.99	22.41	16.81	11.21	44.82	89.59	67.19	44.80	179.18
1250	9.19	6.89	4.60	14.70	17.91	13.44	8.96	28.66	71.63	53.72	35.82	114.60
1500	7.64	5.73	3.82	10.19	14.91	11.18	7.46	19.88	59.64	44.73	29.82	79.52
1750	6.54	4.91	3.27	7.47	12.76	9.57	6.38	14.58	51.08	38.31	25.54	58.37
2000	5.71	4.28	2.86	5.71	11.15	8.36	5.58	11.15	44.65	33.49	22.33	44.65
2250	5.06	3.73	2.53	4.50	9.89	7.42	4.95	8.79	39.64	29.73	19.82	35.24
2500	4.55	3.01	2.16	3.28	8.88	6.66	4.44	7.11	35.63	26.72	17.82	28.50
2750	4.12	2.47	1.78	2.45	8.05	6.04	4.03	5.86	32.34	24.26	16.17	23.52
3000	3.52	2.07	1.48	1.88	7.36	5.08	3.64	4.62	29.60	22.20	14.80	19.73
3250	2.97	1.75	1.25	1.47	6.78	4.31	3.09	3.61	27.27	20.46	13.64	16.79
3500	2.54	1.49	1.07	1.16	6.27	3.69	2.65	2.88	25.28	18.96	12.64	14.45
3750	2.19	1.29	0.93	0.94	5.44	3.20	2.29	2.32	23.54	17.66	11.77	12.56
4000	1.90	1.12	0.80	0.76	4.75	2.79	2.00	1.90	22.03	16.52	11.02	11.02
4250	1.66	0.98	0.70	0.63	4.17	2.45	1.76	1.57	20.68	15.51	10.34	9.73
4500	1.46	0.86	0.62	0.52	3.68	2.16	1.55	1.31	19.48	14.61	9.74	8.66
4750	1.29	0.76	0.54	0.44	3.27	1.92	1.38	1.10	18.41	13.81	9.21	7.75
5000	1.14	0.67	0.48	0.37	2.91	1.71	1.23	0.94	17.44	13.08	8.72	6.31
5250	1.01	0.59	0.43	0.31	2.61	1.53	1.10	0.80	16.56	12.42	8.28	6.31
5500	0.89	0.53	0.38	0.26	2.34	1.37	0.99	0.68	15.76	11.82	7.88	5.73



MODFRAME® Protecting cap



MODFRAME® Protecting cap

Specification:

For profile type: MOD 80, MOD 100

Technical data:

Material: Plastic
Material type: PE
Colour: Black

Identification

MODFRAME® Protecting cap MOD 80
MODFRAME® Protecting cap MOD 100

Weight
[kg/pc.]

0.056
0.092

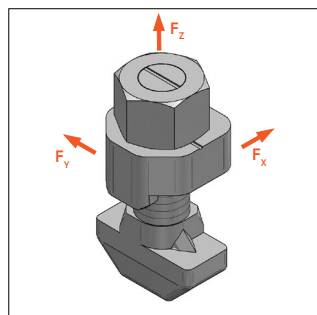
Packing
[set]

20
20

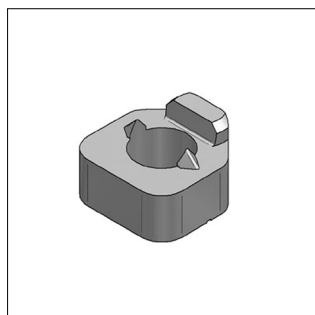
Part-No.

MOD80CAP
MOD100CAP

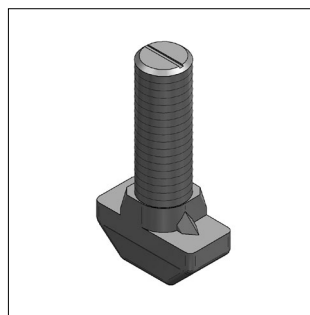
MODFRAME® T-lock head, toothed



MODFRAME® T-lock head



MODFRAME® Lock washer



MODFRAME® T-lock bolt



Specification:

For profile type: MOD 80, MOD 100 and MOD 200
 Features: Immovable and form-locking connection
 Max. load: F_x F_y F_z
 MOD 80: 8 kN 8kN 3kN
 from MOD 100: 10 kN 10kN 3kN
 Safety γ : 2
 Application: C-profile connector (at hole $\varnothing \geq 14$ mm)

Technical data:

Material: Steel
 Surface: Zinc-nickel

Identification	Property class	recommended tightening torque [Nm]		Weight [kg/pc.]	Packing [pcs.]	Part-No.
		MOD 80	from MOD 100			
MODFRAME® T-lock head M12x40, toothed	10.9	90	120	0.120	50	MODTB/S

Assembly instruction for T-lock head

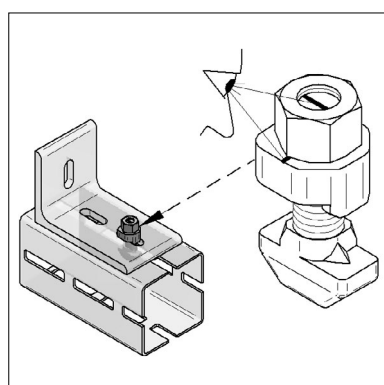


Figure 1

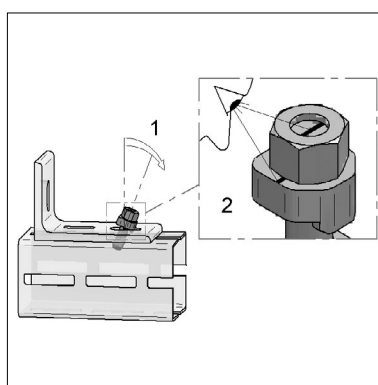


Figure 2

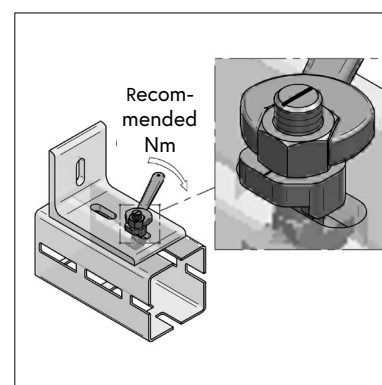


Figure 3

Positioning:

Locate T-lock head into mounting part like shown in Figure 1.

Adjustment:

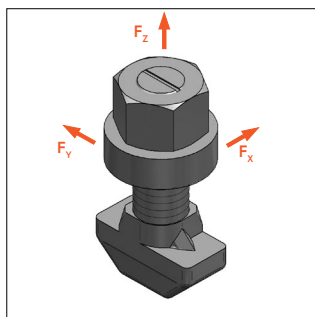
Turn T-lock head around 90 degrees, so that T-lock bolt stands diagonally to long hole (see 1).

Tilt forward T-lock head, so that guide wedge of Lock washer snaps in long hole (see 2).

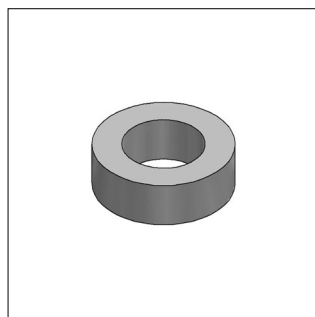
Fixation:

Tighten tilted T-lock with 90 Nm (MOD 80) or 120 Nm (from MOD 100). T-lock head after dismantling non-re-usable.

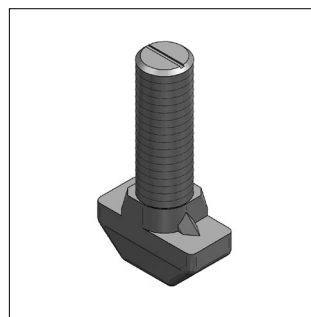
MODFRAME® T-bolt, with Steel disk



MODFRAME® T-bolt



MODFRAME® Steel disk



MODFRAME® T-lock bolt, toothed

Specification:

For profile type: MOD 80, MOD 100, and MOD 200

Features: Frictional connection

Max. load: F_x F_y F_z
 MOD 80: 3 kN 8kN 3kN
 from MOD 100: 3 kN 10kN 3kN

Safety γ : 2

Application: C-profile connector

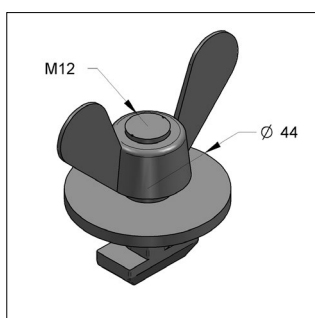
Technical data:

Material: Steel

Surface: Zinc-nickel

Identification	Property class	Recommended tightening torque [Nm]		Weight [kg/pc.]	Packing [pcs.]	Part-No.
MODFRAME® T-bolt M12x40	10.9	MOD 80 90	from MOD 100 120	0.100	50	MODTB/W

MODFRAME® FixBOB



MODFRAME® FixBOB

Specification:

Application area: Adjustment aid for MODFRAME® assembly parts

Features: Wing nut with hammer head
only for fixing MODFRAME® components

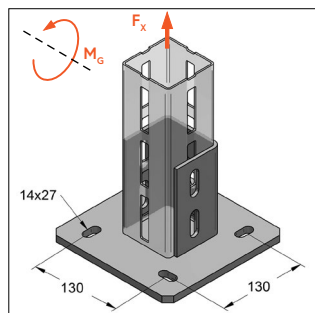
Technical data:

Material: Steel

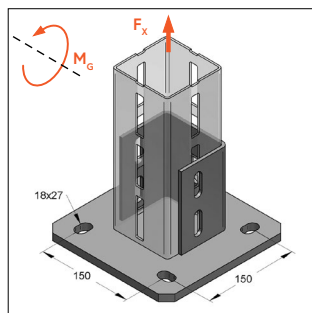
Surface: Galvanized / painted red

Identification	Thread	Weight [kg/pc.]	Packing [pcs.]	Part-No.
MODFRAME® FixBOB	M12	0.139	10	MODFB

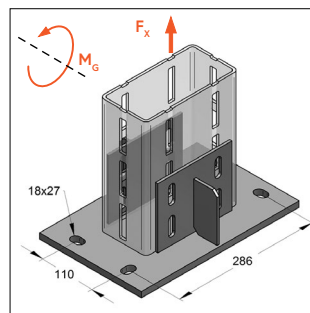
MODFRAME® Holder



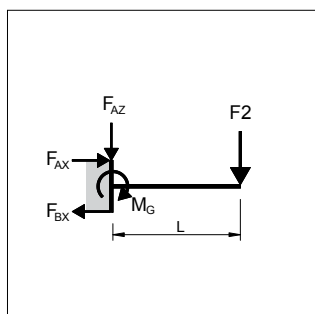
MODFRAME® Holder MOD 80



MODFRAME® Holder MOD 100



MODFRAME® Holder MOD 200



$$M_G = F_2 \times L$$

Specification:

For profile type: MOD 80, MOD 100, and MOD 200

Scope of supply: T-lock head, toothed, M12/40

* at least one screw per profile side / With MOD 200 two screws per profile side

Technical data:

Material: Steel

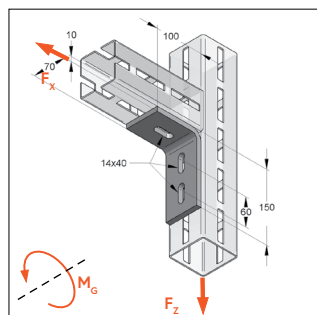
Material type: S235JR

Surface: Hot-Dip Galvanized

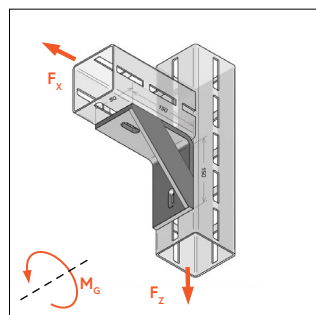
Safety factor: 1.54

Identification	Max. load* F_x [kN]	Maximum torque M_G^* [kNm]	Plate-width [mm]	Plate-length [mm]	Plate-thickness [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Holder MOD 80	25	4.2	200	200	10	4.48	1	MOD80BP
MODFRAME® Holder MOD 100	30	5.2	220	220	12	6.15	1	MOD100BP
MODFRAME® Holder MOD 200	40	5.2	220	340	12	9.57	1	MOD200BP

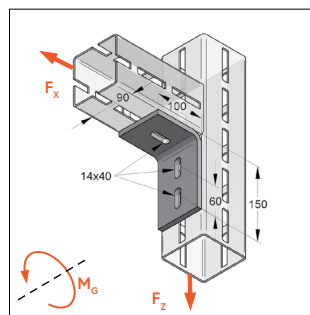
MODFRAME® Angles - corner connector



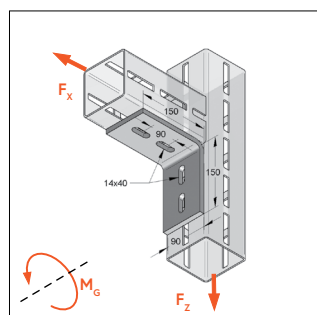
MODFRAME® 3-hole angle
MOD 80



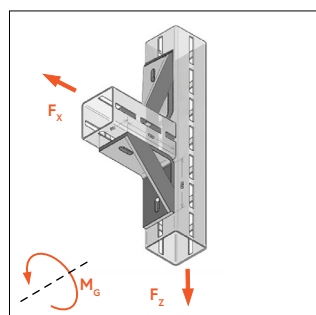
MODFRAME® 4-hole angle w/ brace
from MOD 80



MODFRAME® 3-hole angle
from MOD 100



MODFRAME® 4-hole angle
from MOD 100



MODFRAME® 2x4-hole angle w/ brace
from MOD 100

Specification:

For profile type: MOD 80, MOD 100 and MOD 200
Required accessory: T-lock head, toothed, M12/40

* by using of all screw holes

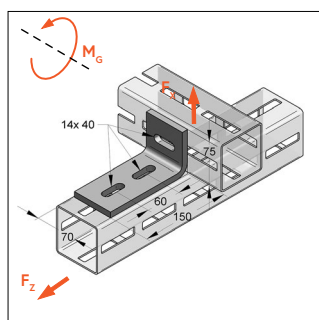
Technical data:

Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

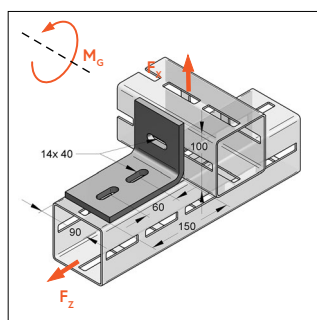
Remark: Always align elongated holes of components in direction of elongated holes of MODFRAME® profile.

Identification	Max. load		Max. limited torque M_G^* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
	F_x [kN]	F_z [kN]				
MODFRAME® 3-hole angle MOD 80	5.2	16	0.40	1.28	1	MOD80AB3H
MODFRAME® 4-hole angle w/ brace from MOD 80	9.6	28	0.55	1.86	1	MOD80AB4HB
MODFRAME® 3-hole angle from MOD 100	6.0	20	0.50	1.68	1	MOD100AB3H
MODFRAME® 4-hole angle from MOD 100	6.0	20	0.50	2.02	1	MOD100AB4H
MODFRAME® 2x4-hole angle w/ brace from MOD 80	19.2	37.6	0.74	1.54	2	MOD100AB4H

MODFRAME® Angles horizontal - cross connector



MODFRAME® 3-hole angle
horizontal MOD 80



MODFRAME® 3-hole angle
horizontal MOD 100

Specification:

For profile type: MOD 80, MOD 100 and MOD 200

Required accessory: T-lock head, toothed, M12/40

* by using of all screw holes

Remark: Always align elongated holes of components in direction of elongated holes of MODFRAME® profile.

Technical data:

Material: Steel

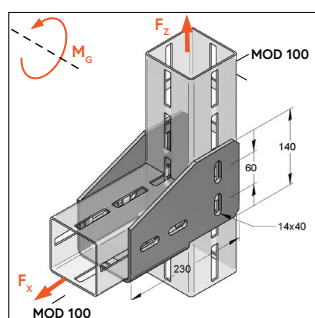
Material type: S235JR

Surface: Hot-Dip Galvanized

Safety factor: 1.54

Identification	Max. load		Max. limited torque M_G^* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
	F_x [kN]	F_z [kN]				
MODFRAME® 3-hole angle horizontal MOD 80	5.2	16	0.4	1.13	1	MOD80AB3H-H
MODFRAME® 3-hole angle horizontal MOD 100	6	20	0.5	1.68	1	MOD100AB3H-H

MODFRAME® Angle-shoe



MODFRAME® Angle-shoe
MOD 100

Specification:

For profile type: MOD 100
High-strength corner connection
with profile support
Required accessory: T-lock head, toothed, M12/40

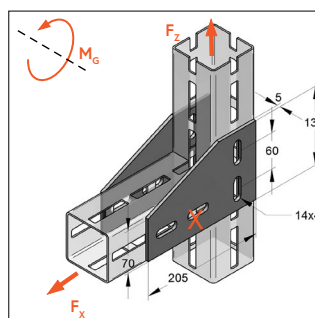
Technical data:

Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

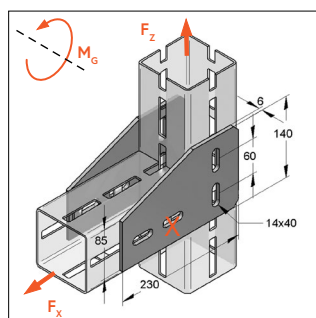
* by using of all screw holes

Identification	Max. load		Max. limited torque	Weight	Packing	Part-No.
	F_x [kN]	F_z [kN]	M_G^* [kNm]	[kg/pc.]	[pc.]	
MODFRAME® Angle-shoe MOD 100	40	40	1.2	3.57	1	MOD100AS

MODFRAME® Corner Plate



MODFRAME® Corner plate
use in pairs



MODFRAME® Corner plate L
from MOD 100

Specification:

For profile type: MOD 80, MOD 100 and MOD 200
Required accessory: T-lock head, toothed, M12/40

Technical data:

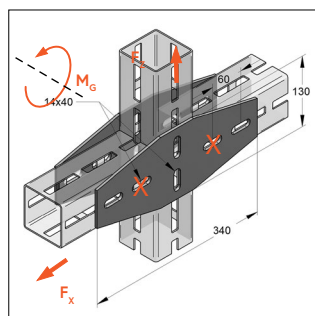
Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

* by using of all screw holes

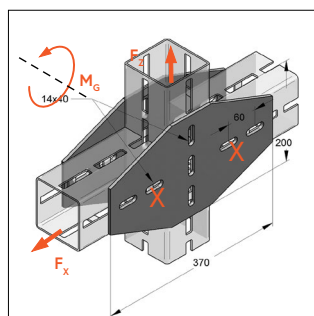
Remark: for $M_G = 0$ only one screw per side at X

Identification	Profile type	Max. load		Max. limited torque	Weight	Packing	Part-No.
		F_x [kN]	F_z [kN]	M_G^* [kNm]	[kg/pc.]	[pc.]	
MODFRAME® Corner plate MOD 80 (use in pairs)	MOD 80	32	32	0.95*	0.92	1	MOD80CP
MODFRAME® Corner plate L (use in pairs)	from MOD 100	40	40	1.20*	1.38	1	MOD100CP

MODFRAME® Cross Plate



MODFRAME® Cross plate
MOD 80



MODFRAME® Cross plate
from MOD 100

Specification:

For profile type: MOD 100, MOD 120 and MOD 200

Required accessory: T-lock head, toothed, M12/40

* by using of all screw holes

Remark: for $M_G = 0$ only one screw per side at X

Technical data:

Material: Steel

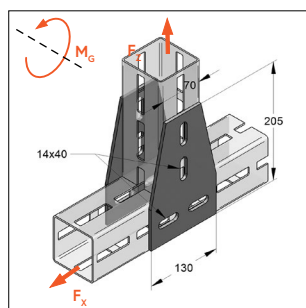
Material type: S235JR

Surface: Hot-Dip Galvanized

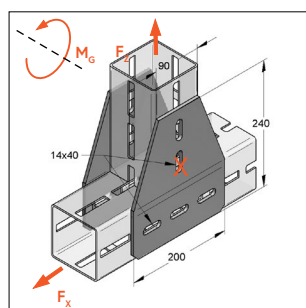
Safety factor: 1.54

Identification	Profile type	Max. load F_x [kN]	Max. load F_z [kN]	Max. limited torque M_G^* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Cross plate MOD 80 (use in pairs)	MOD 80	32	32	0.95*	1.47	1	MOD80XP
MODFRAME® Cross plate (use in pairs)	from MOD 100	40	40	1.20*	2.89	1	MOD100XP

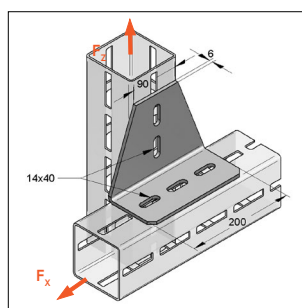
MODFRAME® T-plate



MODFRAME® T-plate
MOD 80



MODFRAME® T-plate
from MOD 100



MODFRAME® T-plate, angled

Specification:

For profile type: MOD 80, MOD 100 and MOD 200

Required accessory: T-lock head, toothed, M12/40

Remark: for $M_G = 0$ only one screw per side at X

Technical data:

Material: Steel

Material type: S235JR

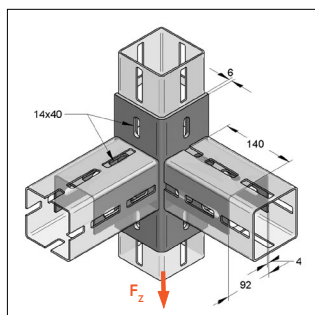
Surface: Hot-Dip Galvanized

Safety factor: 1.54

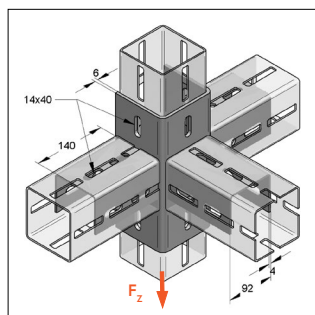
- ¹⁾ by using of all screw holes
²⁾ use in pairs
³⁾ cross profile MOD 100; any connecting profile

Identification	Profile type	Max. load F_x [kN]	Max. load F_z [kN]	Max. limited torque M_G^* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® T-plate MOD 80 ²⁾	MOD 80	32	32	0.95 ¹⁾	0.92	1	MOD80TP
MODFRAME® T-plate ²⁾	from MOD 100	40	40	1.20 ¹⁾	1.97	1	MOD100TP
MODFRAME® T-plate, angled	MOD 100, MOD 200 ³⁾	20	9	-	1.99	1	MOD100ATP

MODFRAME® Angle coupler



MODFRAME® Angle coupler 90°



MODFRAME® Angle coupler 180°

Specification:

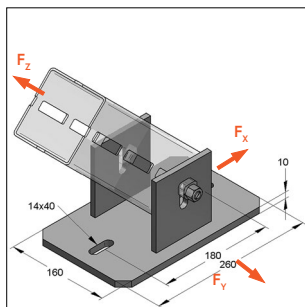
For profile type: MOD 100
Required accessory: T-lock head, toothed, M12/40

Technical data:

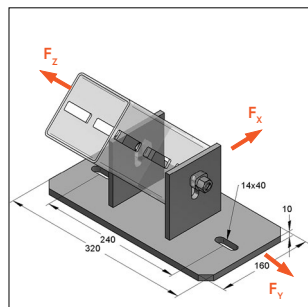
Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

Identification	Max. load F_z [kN]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Angle coupler 90°	20	4.72	1	MOD100AC90
MODFRAME® Angle coupler 180°	20	7.12	1	MOD100AC180

MODFRAME® Joint holder



MODFRAME® Joint holder
MOD 100 vertical



MODFRAME® Joint holder
MOD 100 horizontal

Specification:

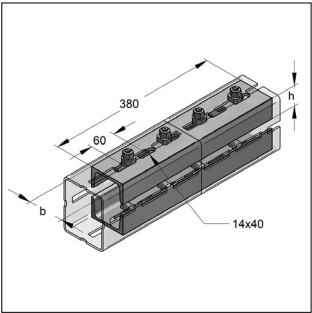
For profile type: MOD 100
Required accessory: T-lock head, toothed, M12/40
Tightening torque: 60 Nm
Delivery time: On request

Technical data:

Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

Identification	Max. load			Center hole Plate	Dimension Plate L x B x S	Weight [kg/pc.]	Packing [pc.]	Part-No.
	F_x [kN]	F_z [kN]	F_y [kN]					
MODFRAME® Joint holder MOD 100 vertical	6.3	20	11	180	260 x 160 x 10	4.89	1	MOD100VHB
MODFRAME® Joint holder MOD 100 horizontal	6.3	20	11	240	320 x 160 x 10	5.72	1	MOD100HBB

MODFRAME® Connector

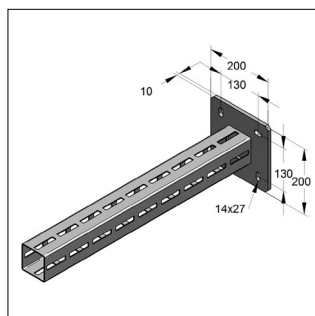


MODFRAME® Connector

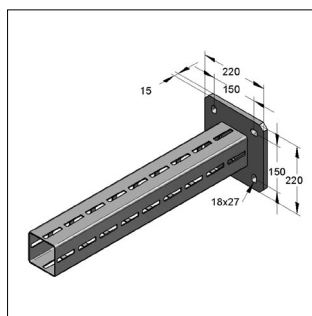
Specification:		Technical data:	
Scope of supply:	Mounting accessories, loose insert (8x T-lock head, toothed, M 12/40)	Material:	Steel
Function:	Connection of MOD 80, MOD 100 or MOD 200	Surface u-steel:	Hot-Dip Galvanized
		Surface screws:	Zinc-nickel

Identification	Profile type:	Limit moment M_G [kNm]	Length [mm]	Width b [mm]	Height h [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Connector-Set	MOD 80	1.6	380	60	30	4.94	1	MOD80CS
MODFRAME® Connector-Set	MOD 100, MOD 200	2	380	80	45	7.90	1	MOD100CS

MODFRAME® Console



MODFRAME® Console MOD 80



MODFRAME® Console MOD 100

Specification:

For profile type: MOD 80, 100

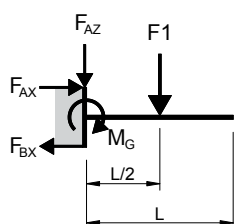
* Delivery time on request, variant demand possible

Technical data:

Material: Steel
Material type (plate): S235JR
Material type (rail): S275JR
Surface: Hot-Dip Galvanized
Safety factor: 1.35

Identification	Length [mm]	Max. load 1 F1 [kN]	Max. load 2 F2 [kN]	Max. load 3 q0 [kN/m]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Console MOD 80	720	8.38	4.19	11.64	7.26	1	MOD80C720
MODFRAME® Console MOD 80	960	6.29	2.94	6.55	8.58	1	MOD80C960
MODFRAME® Console MOD 80	1440	4.19	1.88	4.18	11.23	1	MOD80C1440
MODFRAME® Console MOD 100	720	16.17	8.08	22.45	11.92	1	MOD100C720
MODFRAME® Console MOD 100	960	12.13	6.06	12.63	13.62	1	MOD100C960
MODFRAME® Console MOD 100	1440	8.08	4.58	5.61	18.02	1	MOD100C1440

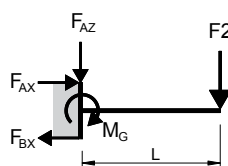
Max. load 1 (LF1)



$$F_{AZ} = F1$$

$$F_{AZ} = F1 \quad M_G = \frac{F1 * L}{2}$$

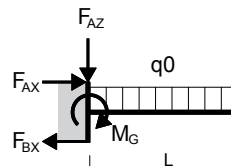
Max. load 2 (LF2)



$$F_{AZ} = F2$$

$$F_{AZ} = F2 \quad M_G = F2 * L$$

Max. load 3 (LF3)



$$F_{AZ} = q0 * L$$

$$F_{AZ} = q0 * L \quad M_G = \frac{q0 * L^2}{2}$$

Limit moment MOD 80

M_G : 3.017.28 Nm

Support reaction force MOD 80

F_{AX} : 23.21 kN

Support reaction force MOD 80

F_{BX} : 23.21 kN

Limit moment MOD 100

M_G : 9.008.0 Nm

Support reaction force MOD 100

F_{AX} : 53.0 kN

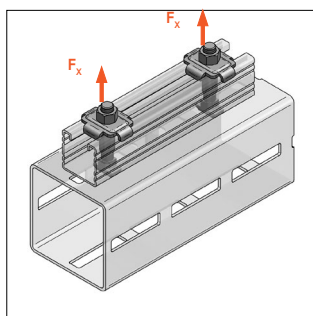
Support reaction force MOD 100

F_{BX} : 53.0 kN

Remark:

All load capacities excessive refer to static loads.

MODFRAME® Channel connector



MODFRAME® C-profile connector

Specification:

For profile type: MOD 100 and MOD 200

Application: To connect profile rails

Technical data:

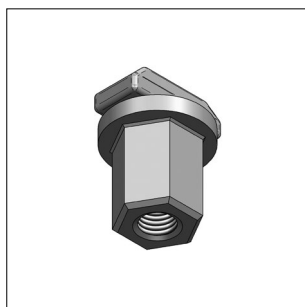
Material: Steel

Material type: S235JR

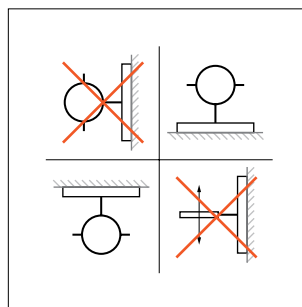
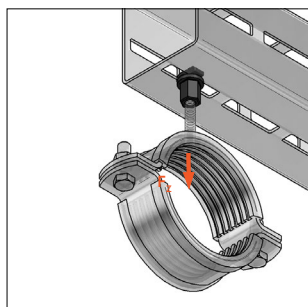
Surface: galvanized

Identification	For profile-height [mm]	Max. load F_x [kN]	Tightening torque [Nm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Channel connector	40-45	2.0	10	0.160	50	MODSC45
MODFRAME® Channel connector	60	2.0	10	0.170	50	MODSC65

MODFRAME® Direct connector



MODFRAME® Direct connector



Mounting recommendation

Specification:

For profile type: MOD 80, MOD 100 and MOD 200

Application: Direct connection for M10 or M12 thread

Technical data:

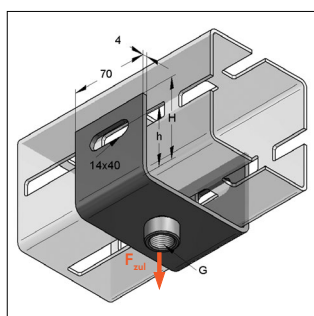
Material type: Steel

Surface: Zinc-nickel

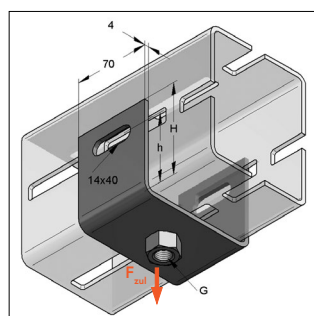
Safety factor: 1.54

Identification	Wrench size	Height collar nut [mm]	Recommended tightening torque [Nm]	Max. load F [kN]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Direct connector	SW 17	25	25	3.0	0.072	50	MODDCM10
MODFRAME® Direct connector	SW 17	25	25	3.0	0.070	50	MODDCM12

MODFRAME® Thread connector



MODFRAME® Thread connector
MOD 80 / MOD 100 1/2"



MODFRAME® Thread connector
MOD 120 M16

Specification:

For profile type: MOD 80, MOD 100 and MOD 200

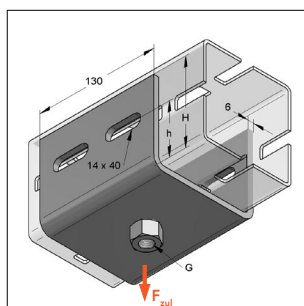
Required: 2 x T-lock head, toothed, M12/40

Technical data:

Material: Steel
Material type: S235JR
Surface: Zinc-nickel
Safety factor: 1.54

Identification	Profile type	Thread G	Max. load F_{zul} [kN]	H [mm]	h [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Thread connector	MOD 80	M16	4.0	64	40	0.480	1	MOD80TC16
MODFRAME® Thread connector	MOD 100 / MOD 200	M12	5.0	74	50	0.550	1	MOD100TC12
MODFRAME® Thread connector	MOD 100 / MOD 200	M16	5.0	74	50	0.557	1	MOD100TC16

MODFRAME® Massive connector



MODFRAME® Massive
connector
MOD 100 M16

Specification:

For profile type: MOD 100 and MOD 200

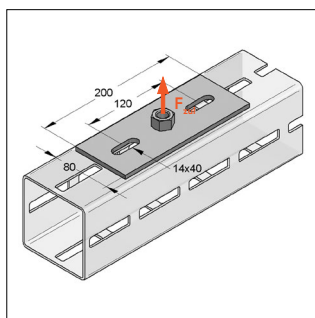
Required: 4 x T-lock head, toothed, M12/40

Technical data:

Material: Steel
Material type: S235JR
Surface: Zinc-nickel
Safety factor: 1.54

Identification	Profile type	Thread G	F_{zul} [kN]	H [mm]	h [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Massive connector	MOD 100 / MOD 200	M16	10.0	86	50	1.65	1	MOD100MTC16

MODFRAME® Base plate



MODFRAME® Base plate M12

Specification:

For profile type: MOD80, MOD100 and MOD 200

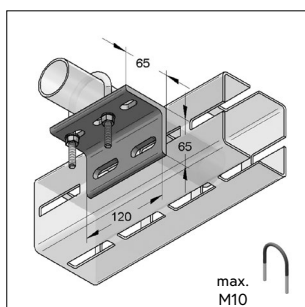
Required accessory: T-lock head, toothed, M12/40 or
T-bolt with Steel disk, M12/40

Technical data:

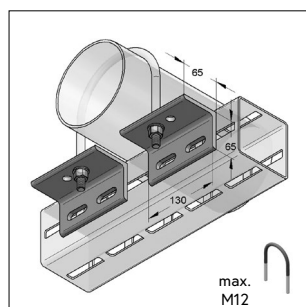
Material: Steel
Material type: S235JRG2
Surface: Zinc-nickel
Safety factor: 1.54

Identification	Length	Height	Max. load F_{zul} [kN]	Thickness	Weight	Packing	Part-No.
	[mm]	[mm]		[mm]	[kg/pc.]	[pc.]	
MODFRAME® Base plate M12	200	80	5.5	6	0.760	1	MOD100BP-12
MODFRAME® Base plate M16	200	80	5.5	6	0.790	1	MOD100BP-16

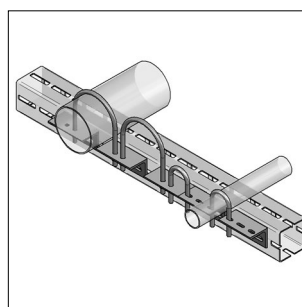
MODFRAME® Pipe holder



MODFRAME® Ø 21.3 - 76.1



MODFRAME® Ø 88.9 - 219.1



Combined example

Specification:

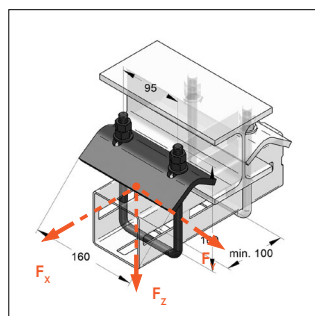
For pipe diameter: Ø 21.3 - 219.1 mm
Mounting instruction: Pipe must overlie
Advantage: Installation of different pipe diameter
Required accessory: T-lock head and U-bolt
Delivery time: On request

Technical data:

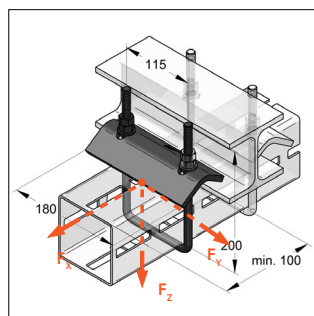
Material: Steel
Material type: S235JRG2
Surface: Hot-Dip Galvanized

Identification	For pipe-Ø	Length [mm]	Height [mm]	Thickness [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
MODFRAME® Pipe holder	21.3 - 76.1	120	65	7	0.81	1	MODPH65X120
MODFRAME® Pipe holder	88.9 - 219.1	130	65	7	1.80	2	MODPH65X130

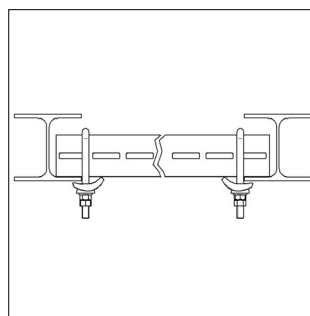
MODFRAME® Clamping bow



MODFRAME® Clamping bow
MOD 80



MODFRAME® Clamping bow
MOD 100



Specification:

For profile rail type: MOD 80, MOD 100
Application area: For mounting of Steel
profile rail on girder

Set consisting of:

U-bolt 1 pc.
MODFRAME® tensioning bracket 1 pc.
Nuts M12 4 pcs.
Washer 2 pcs.

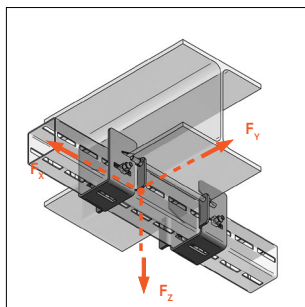
Technical data:

Material: Steel
Material type: S235JR
Surface:
U-bolt: Zinc-nickel
MODFRAME® tensioning bracket Galvanized
Nuts M12 Galvanized
washer Galvanized

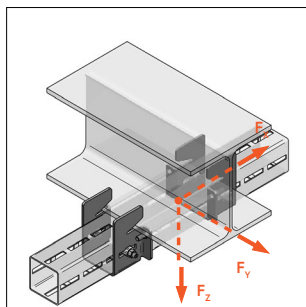
Remark: max. loads refer according to a clamping bow pair. Please notice max. loads of MODFRAME® profile rails

Identification	Thread U-bolt	Max. load F _x F _y F _z [kN]			Tightening torque [Nm]	Max. clamping strength [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Clamping bow MOD 80	M12	3.0	3.0	10.0	25	6 - 25	1.30	1	MOD80CB
MODFRAME® Clamping bow MOD 100	M12	3.0	3.0	10.0	25	6 - 25	1.49	1	MOD100CB

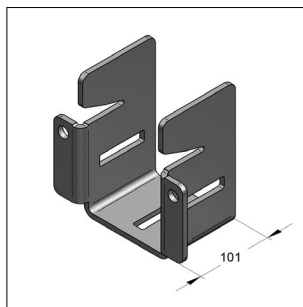
MODFRAME® Clamping shoe



MODFRAME® Clamping shoe mounted



MODFRAME® Clamping shoe mounted



MODFRAME® Clamping shoe single

Specification:

Application area: Attaching MODFRAME® profiles to Steel girder
Installation advise: Evenly tightening of threaded rods with 15 Nm
Torque for MODFRAME® T-lock head 120 Nm

Scope of delivery: Sold in pairs

Technical data:

Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

Identification	Profile type	Clamping thickness Flange [mm]	Min. Clamping range Flange [mm]	Max. web thickness Girder [mm]	Max. load			Weight [kg/set]	Packing [set]	Part-No.
					F_x [kN]	F_y [kN]	F_z [kN]			
MODFRAME® Clamping shoe S	MOD 100	5-10	82*	10	20.0	4,2	22.5	4.24	1	MODCS-100S
MODFRAME® Clamping shoe M	MOD 100	8-15	100	10	20.0	4,2	22.5	4.39	1	MODCS-100M
MODFRAME® Clamping shoe L	MOD 100	13-20	140	20	20.0	4,2	22.5	4.56	1	MODCS-100L
MODFRAME® Clamping shoe XL	MOD 100	19-30	180	40	20.0	4,2	22.5	5.20	1	MODCS-100XL

The min. clamping width of flange with 82mm only for IPE girder, with 91mm only for IPEa girder, for other types of girder the min. clamping width is 100mm.



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