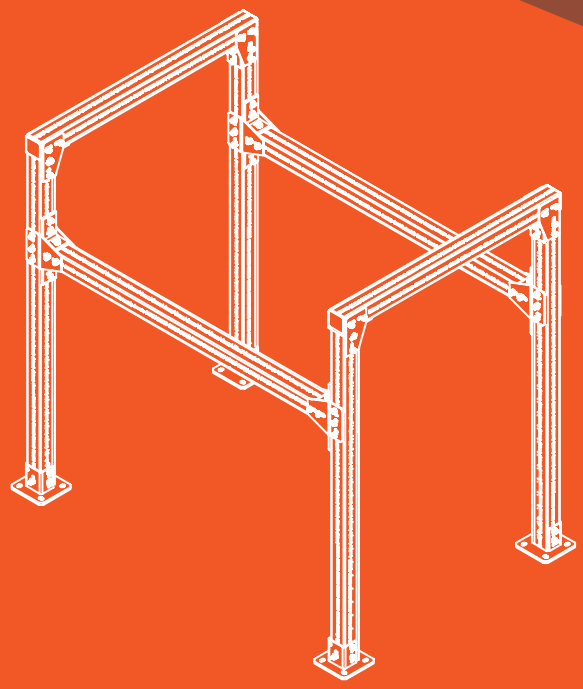
Modframe®



Technical Product Specifications:

MODFRAME

Approval/calculation possibilities:

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

FDG

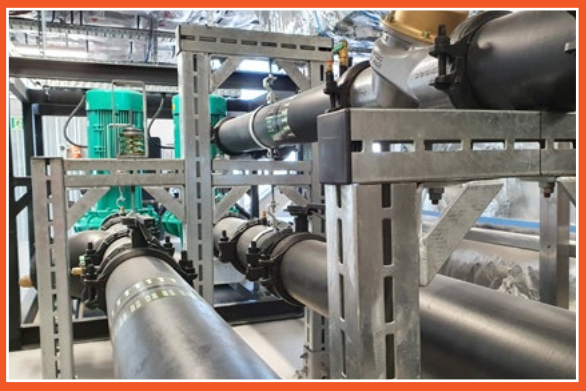
Modframe®

HEAVY DUTY MODULAR FRAMING

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

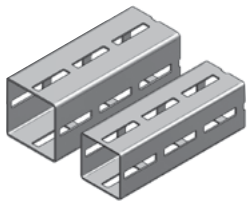
Advantages of using MODFRAME®

- 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.



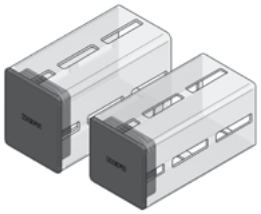
Component List

01



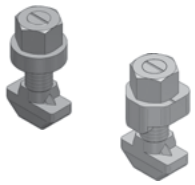
MODFRAME® Square profile

02



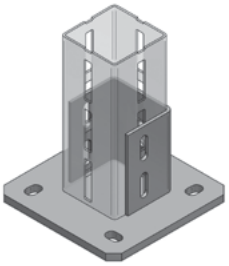
MODFRAME® Protecting caps

03



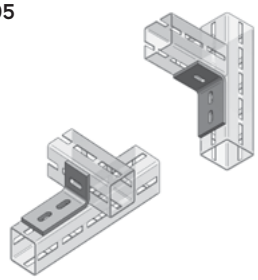
MODFRAME® Connection system

04



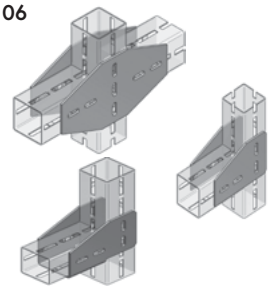
MODFRAME® Holder

05



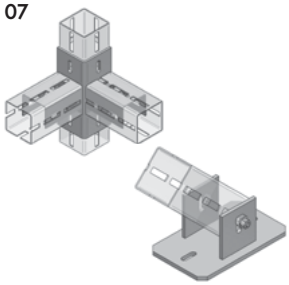
MODFRAME® Angles

06



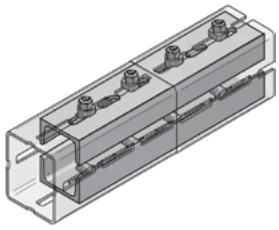
MODFRAME® Angle-shoe, MODFRAME® Plates

07



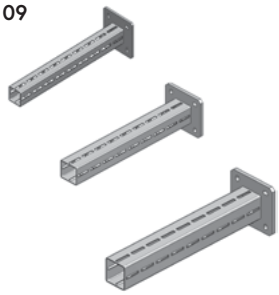
MODFRAME® Angle coupler, MODFRAME® Joint holder

08



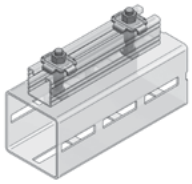
MODFRAME® Connector

09



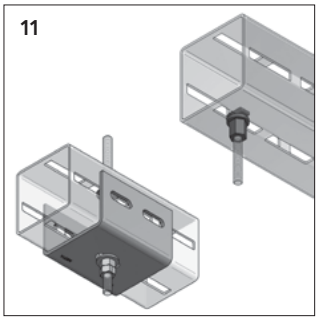
MODFRAME® Consoles

10



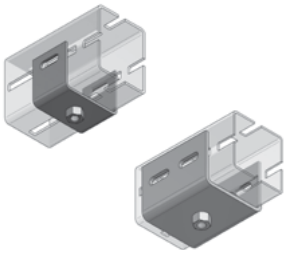
MODFRAME® Joint connection, C-profile connector

11



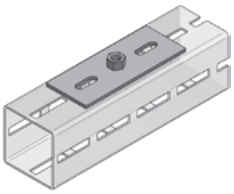
MODFRAME® Wall connector, MODFRAME® Direct connector

12



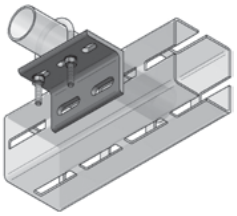
MODFRAME® Thread connector, MODFRAME® Massive connector

13



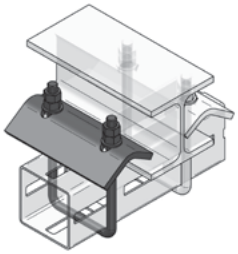
MODFRAME® Base plate

14



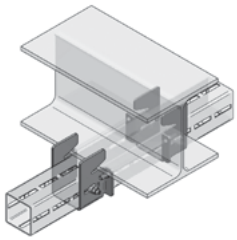
MODFRAME® Pipe holder

15



MODFRAME® Clamping bow

16



MODFRAME® Clamping shoe

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 $\gamma_G = 1.35$

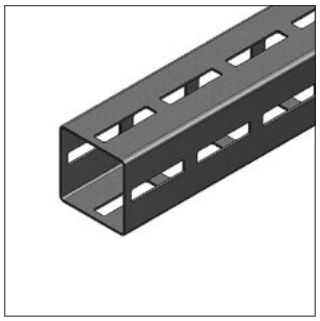
Safety working load $\gamma_Q = 1.50$

Safety for resistance

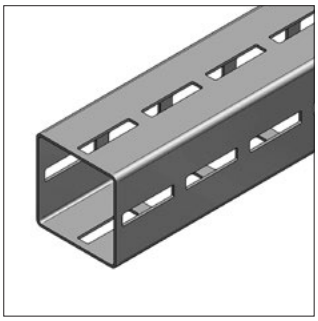
Safety load resistance $\gamma_Z = 1.10$

MODFRAME® Square Profile

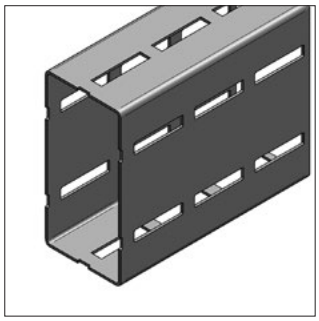
BACK TO COMPONENTS



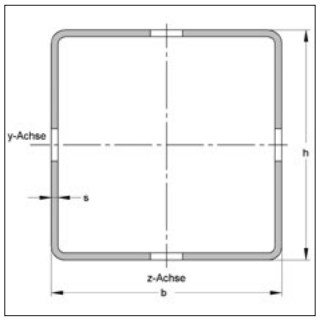
MODFRAME® profile MOD 80



MODFRAME® profile MOD 100



MODFRAME® profile MOD 200



RAL GÜTEZEICHEN ROHRBEFESTIGUNG

RAL-GZ 655-C

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

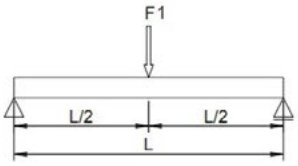
Identification	Cross-section area A_k	Section modulus of torsion W_t	Geometrical moment of inertia I_{Y-Y}	I_{Z-Z}	Section modulus W_{Y-Y}	W_{Z-Z}	Gyration radius i_Y	i_Z
	cm^2	cm^3	cm^4	cm^4	cm^3	cm^3	cm	cm
MODFRAME® Profile MOD 80	6.19	36.04	64.51	64.51	16.13	16.13	3.23	3.23
MODFRAME® Profile MOD 100	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

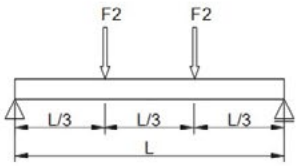
Load values for MODFRAME® profile rails can be found on page 5.

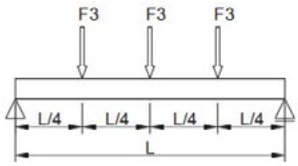
Load values MODFRAME® profile rails

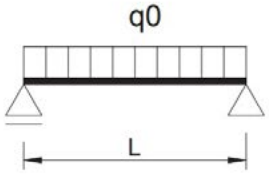
BACK TO COMPONENTS

	MOD 80				MOD 100				MOD 200			
bearing space	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]	[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

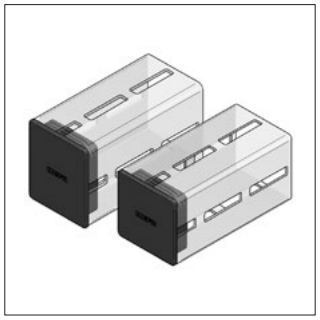








MODFRAME® Protecting cap



MODFRAME® Protecting cap

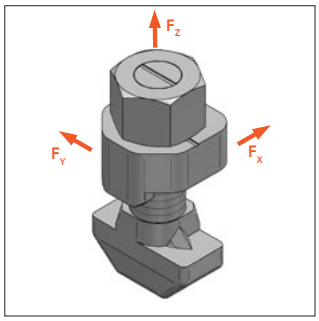
Specification:
For profile type: MOD 80, MOD 100

Technical data:
Material: Plastic
Material type: PE
Colour: Black

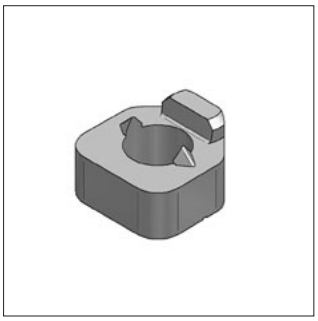
Identification	Weight [kg/pc.]	Packing [set]	Part-No.
MODFRAME® Protecting cap MOD 80	0.056	20	MOD80CAP
MODFRAME® Protecting cap MOD 100	0.092	20	MOD100CAP

MODFRAME® T-lock head, toothed

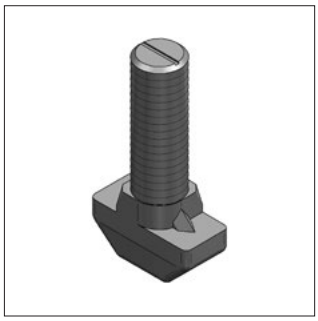
BACK TO COMPONENTS



MODFRAME® T-lock head



MODFRAME® Lock washer



MODFRAME® T-lock bolt

RAL GÜTEZEICHEN ROHRBEFESTIGUNG RAL-GZ 655-D

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 Ø ≥ 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

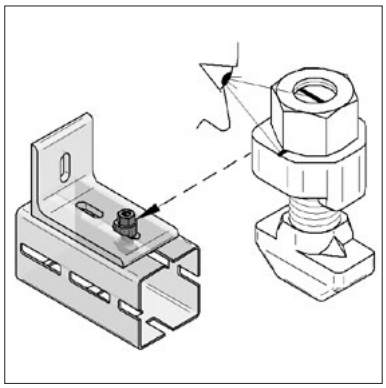


Figure 1

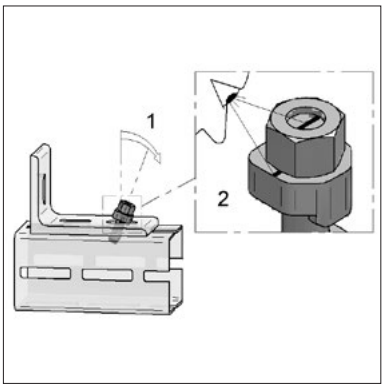


Figure 2

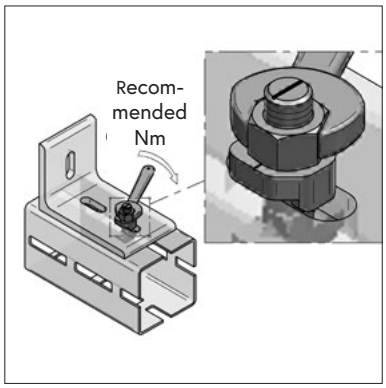


Figure 3

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).

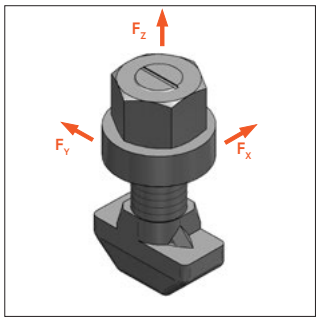
Tilt forward T-lock head, so that guide wedge of Lock washer snaps in long hole (see 2).

Fixation:

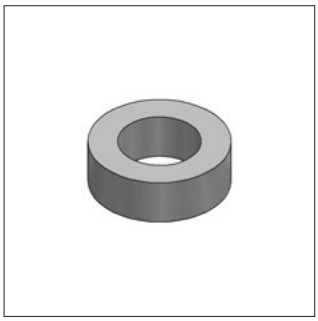
Tighten tilted T-lock with 90 Nm (MOD 80) or 120 Nm (from MOD 100).
T-lock head after dismounting non-reusable.

MODFRAME® T-bolt, with Steel disk

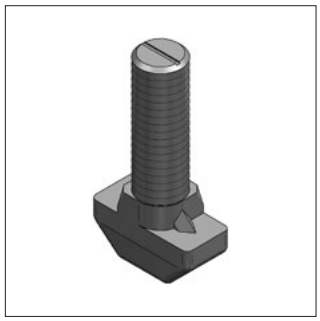
BACK TO COMPONENTS



MODFRAME® T-bolt



MODFRAME® Steel disk



MODFRAME® T-lock bolt, toothed

Specification:

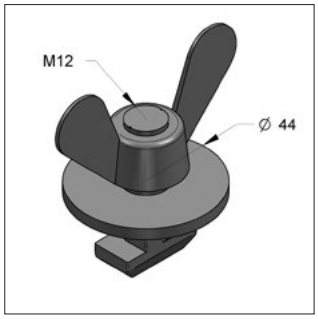
For profile type:	MOD 80, MOD 100, and MOD 200		
Features:	Frictional connection		
Max. load:	F_x	F_y	F_z
MOD 80:	3 kN	8kN	3kN
from MOD 100:	3 kN	10kN	3kN
Safety γ:	2		
Application:	C-profile connector		

Technical data:

Material:	Steel
Surface:	Zinc-nickel

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

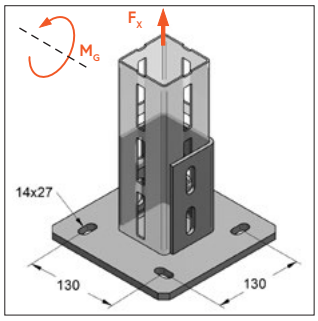
Technical data:

Material:	Steel
Surface:	Galvanized / painted red

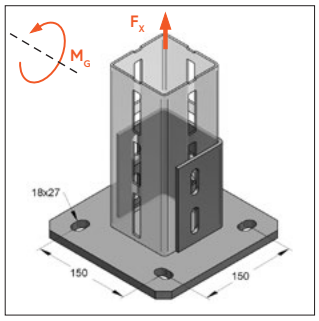
Identification	Thread	Weight [kg/pc.]	Packing [pcs.]	Part-No.
MODFRAME® FixBOB	M12	0.139	10	MODFB

MODFRAME® Holder

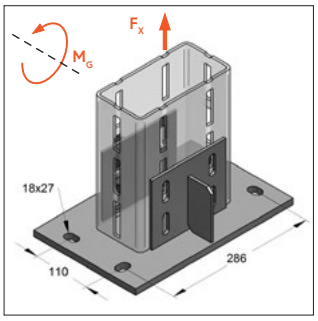
BACK TO COMPONENTS



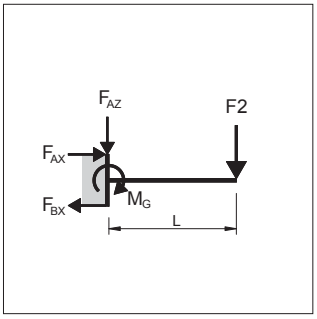
MODFRAME® Holder MOD 80



MODFRAME® Holder MOD 100



MODFRAME® Holder MOD 200



$M_G = F2 \times L$

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

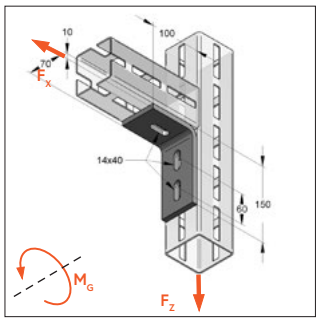
Technical data:

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

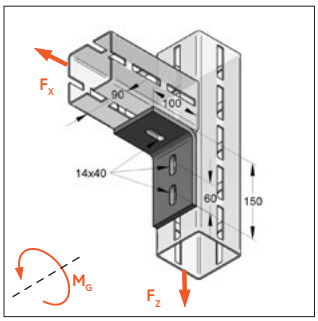
Identification	Max. load* F_x [kN]	Maximum torque M_G* [kNm]	Plate-width [mm]	Plate-length [mm]	Plate-thickness [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Holder MOD 80	25	4.2	200	200	10	4.48	1	MOD80BP
MODFRAME® Holder MOD 100	30	5.2	220	220	12	6.15	1	MOD100BP
MODFRAME® Holder MOD 200	40	5.2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

MODFRAME® Angles - corner connector

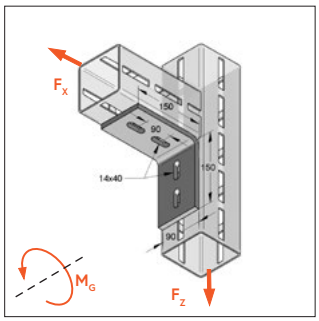
BACK TO COMPONENTS



MODFRAME® 3-hole angle
MOD 80



MODFRAME® 3-hole angle
from MOD 100



MODFRAME® 4-hole angle
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

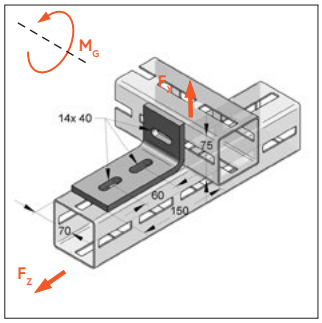
Technical data:

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

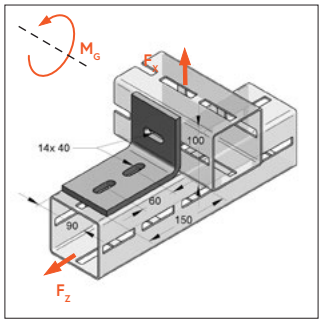
Remark: Always align elongated holes of components in direction of elongated holes of MODFRAME® profile.

Identification	Max. load F_X [kN]	Max. load F_Z [kN]	Max. limited torque M_G* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® 3-hole angle MOD 80	5.2	16	0.40	1.28	1	MOD80AB3H
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® 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

Technical data:

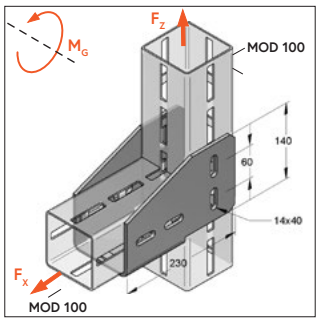
Material:	Steel
Material type:	S235JR
Surface:	Hot-Dip Galvanized
Safety factor:	1.54

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

Identification	Max. load F_X [kN]	Max. load F_Z [kN]	Max. limited torque M_G* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
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

BACK TO COMPONENTS



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

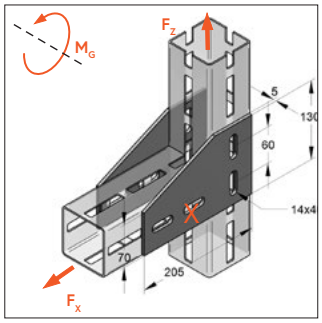
Technical data:

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

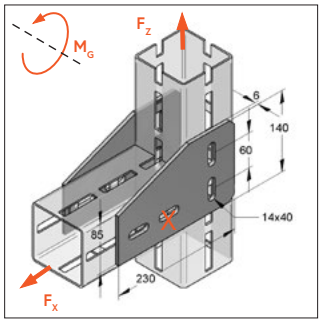
* by using of all screw holes

Identification	Max. load F_X [kN]	Max. load F_Z [kN]	Max. limited torque M_G* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
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

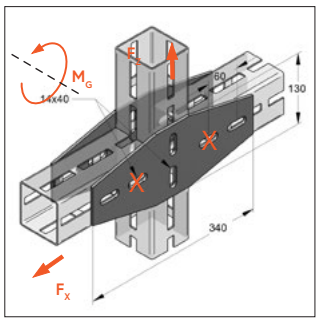
* by using of all screw holes

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

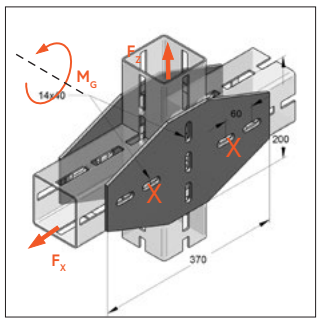
Identification	Profile type	Max. load F_X [kN]	Max. load F_Z [kN]	Max. limited torque M_G* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Corner plate MOD 80 (use in pairs)	MOD 80	32	32	0.95*	0.92	1	MOD80CP
MODFRAME® Corner plate L (use in pairs)	from MOD 100	40	40	1.20*	1.38	1	MOD100CP

MODFRAME® Cross Plate

BACK TO COMPONENTS



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

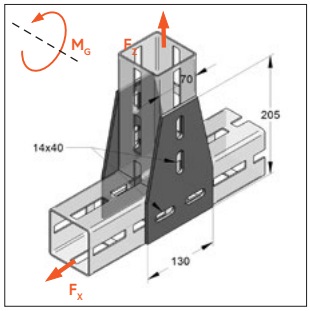
* by using of all screw holes
Remark: for M_G = 0 only one screw per side at X

Technical data:

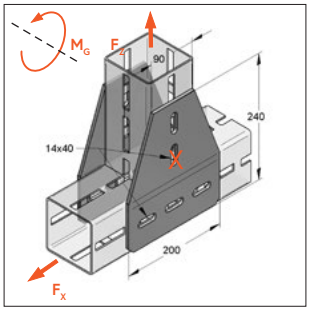
Material: Steel
Material type: S235JR
Surface: Hot-Dip Galvanized
Safety factor: 1.54

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

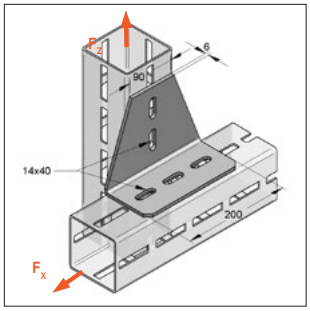
MODFRAME® T-plate



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

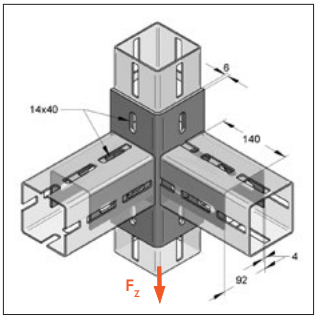
[2] use in pairs

[3] cross profile MOD 100; any connecting profile

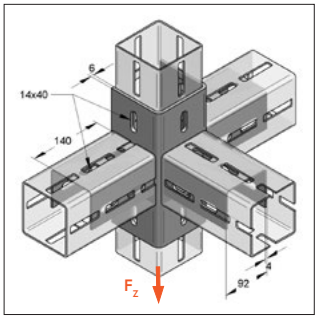
Identification	Profile type	Max. load F_X [kN]	Max. load F_Z [kN]	Max. limited torque M_G* [kNm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® T-plate MOD 80[2]	MOD 80	32	32	0.95[1]	0.92	1	MOD80TP
MODFRAME® T-plate[2]	frome MOD 100	40	40	1.20[1]	1.97	1	MOD100TP
MODFRAME® T-plate, angled	MOD 100, MOD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

MODFRAME® Angle coupler

BACK TO COMPONENTS



MODFRAME® Angle coupler 90°



MODFRAME® Angle coupler 180°

Specification:

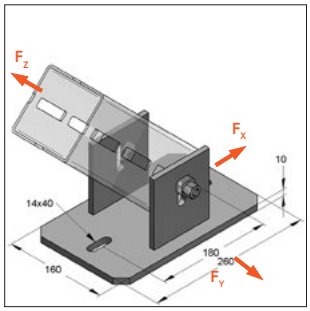
For profile type:	MOD 100
Required accessory:	T-lock head, toothed, M12/40

Technical data:

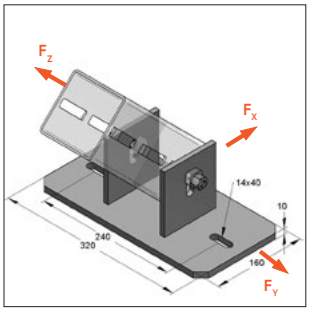
Material:	Steel
Material type:	S235JR
Surface:	Hot-Dip Galvanized
Safety factor:	1.54

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

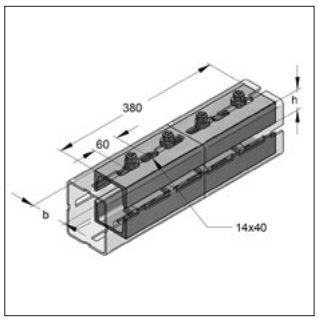
Technical data:

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

Identification	Max. load F_x [kN]	Max. load F_z [kN]	Max. load F_y [kN]	Center hole Plate	Dimension Plate L x B x S	Weight [kg/pc.]	Packing [pc.]	Part-No.
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	MOD100HHB

MODFRAME® Connector

BACK TO COMPONENTS



MODFRAME® Connector

Specification:

Scope of supply: Mounting accessories, loose insert (8x T-lock head, toothed, M 12/40)

Function: Connection of MOD 80, MOD 100 or MOD 200

Technical data:

Material: Steel

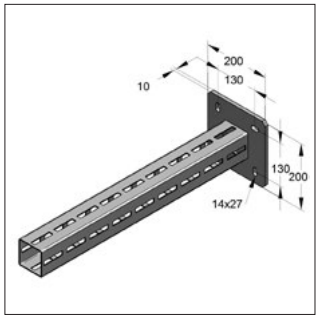
Surface u-steel: Hot-Dip Galvanized

Surface screws: Zinc-nickel

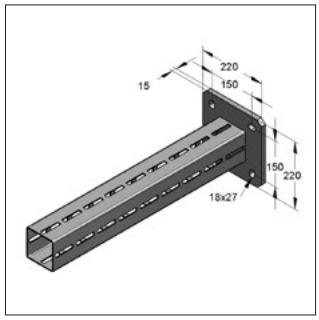
Identification	Profile type:	Limit moment M_G [kNm]	Length [mm]	Width b [mm]	Height h [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Connector-Set	MOD 80	1.6	380	60	30	4.94	1	MOD80CS
MODFRAME® Connector-Set	MOD 100, MOD 200	2	380	80	45	7.90	1	MOD100CS

MODFRAME® Console

BACK TO COMPONENTS



MODFRAME® Console MOD 80



MODFRAME® Console MOD 100

Specification:

For profile type: MOD 80, 100

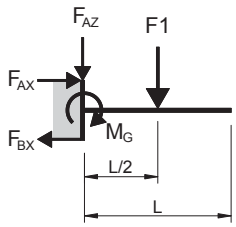
* Delivery time on request, variant demand possible

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 qo [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

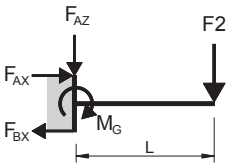
Max. load 1 (LF1)



$F_{AZ} = F1$

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

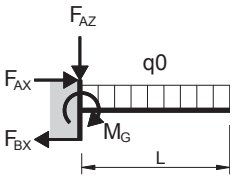
Max. load 2 (LF2)



$F_{AZ} = F2$

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

Max. load 3 (LF3)



$F_{AZ} = qo * L$

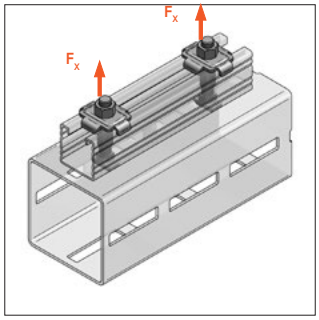
$F_{AZ} = q0 * L$	$M_G = \frac{q0 * L^2}{2}$

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

BACK TO COMPONENTS



MODFRAME® C-profile connector

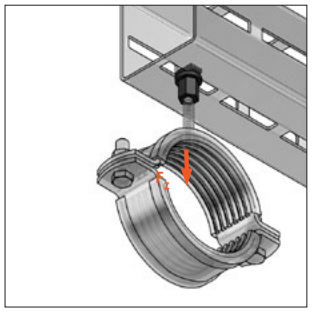
Specification:
For profile type: MOD 100 and MOD 200
Application: To connect profile rails

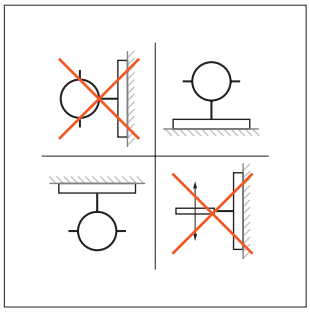
Technical data:
Material: Steel
Material type: S235JR
Surface: galvanized

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

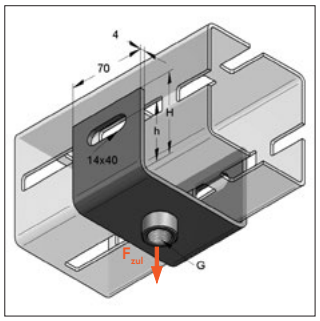
Specification:
For profile type: MOD 80, MOD 100 and MOD 200
Application: Direct connection for M10 or M12 thread

Technical data:
Material type: Steel
Surface: Zinc-nickel
Safety factor: 1.54

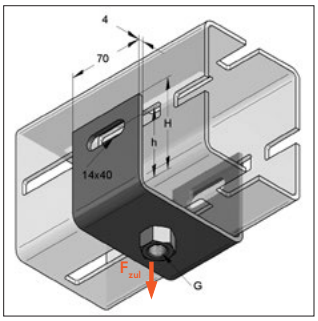
Identification	Wrench size	Height collar nut [mm]	Recommended tightening torque [Nm]	Max. load F [kN]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Direct connector	SW 17	25	25	3.0	0.072	50	MODDCM10
MODFRAME® Direct connector	SW 17	25	25	3.0	0.070	50	MODDCM12

MODFRAME® Thread connector

BACK TO COMPONENTS



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

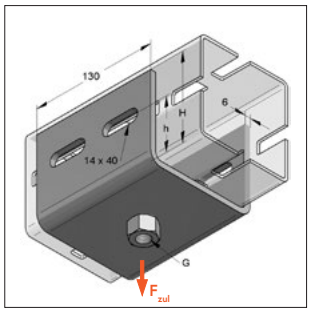
Required: 2 x T-lock head, toothed, M12/40

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

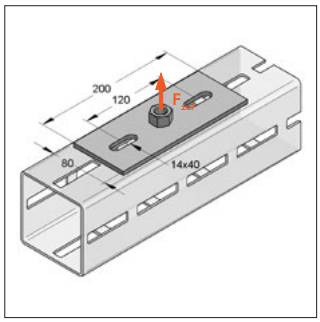
Technical data:

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

BACK TO COMPONENTS



MODFRAME® Base plate M12

Specification:

For profile type: MOD80, MOD100 and MOD 200

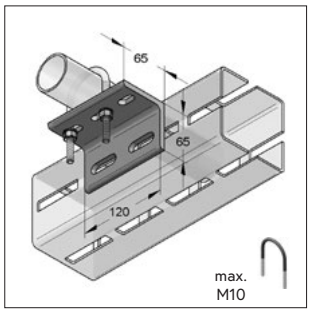
Required accessory: T-lock head, toothed, M12/40 or T-bolt with Steel disk, M12/40

Technical data:

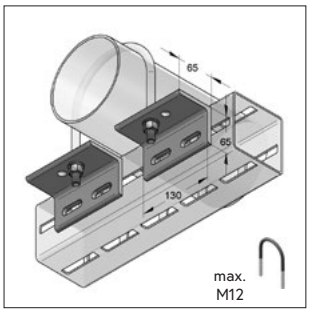
Material: Steel
Material type: S235JRG2
Surface: Zinc-nickel
Safety factor: 1.54

Identification	Length [mm]	Height [mm]	Max. load F_{zul} [kN]	Thickness [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
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

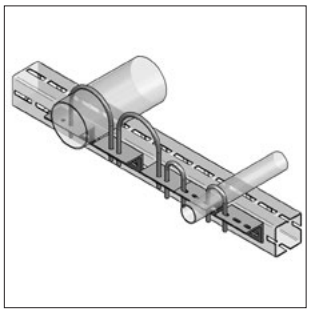
MODFRAME® Pipe holder



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

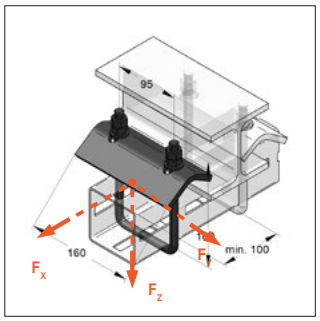
Technical data:

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

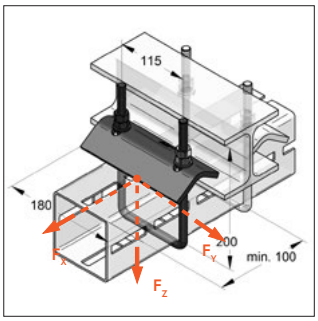
Identification	For pipe-Ø	Length [mm]	Height [mm]	Thickness [mm]	Weight [kg/pc.]	Packing [pcs.]	Part-No.
MODFRAME® Pipe holder	**21.3 - 76.1**	120	65	7	0.81	1	MODPH65X120
MODFRAME® Pipe holder	**88.9 - 219.1**	130	65	7	1.80	2	MODPH65X130

MODFRAME® Clamping bow

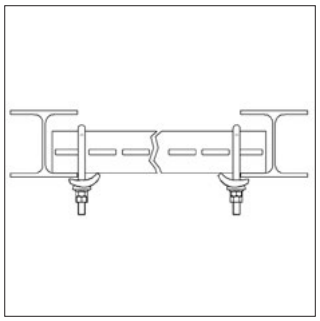
BACK TO COMPONENTS



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:

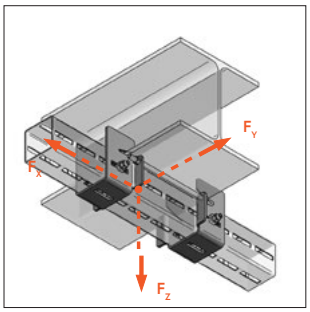
Material:	Steel
Material type:	S235JR
Surface:	
U-bolt:	Zinc-nickel
MODFRAME® tensioning bracket	Galvanized
Nuts M12	Galvanized
washer	Galvanized

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

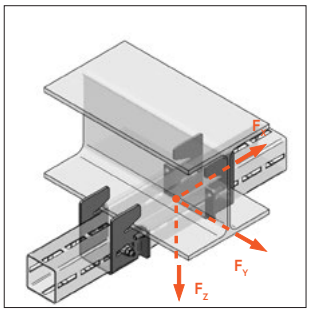
Identification	Thread U-bolt	Max. load F_x [kN]	Max. load F_y [kN]	Max. load F_z [kN]	Tightening torque [Nm]	Max. clamping strength [mm]	Weight [kg/pc.]	Packing [pc.]	Part-No.
MODFRAME® Clamping bow MOD 80	M12	3.0	3.0	10.0	25	6 - 25	1.30	1	MOD80CB
MODFRAME® Clamping bow MOD 100	M12	3.0	3.0	10.0	25	6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

MODFRAME® Clamping shoe

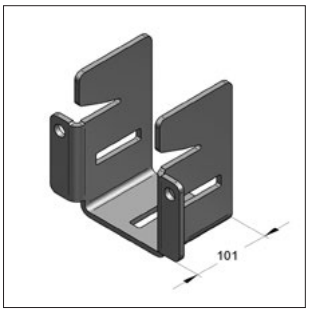
BACK TO COMPONENTS



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 F_x [kN]	Max. load F_y [kN]	Max. load F_z [kN]	Weight [kg/set]	Packing [set]	Part-No.
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.

FDG

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