



The following excerpt are pages from the [North American Product Technical Guide Volume 3: Modular Support Systems Technical Guide, Edition 1](#) .

Please refer to the publication in its entirety for complete details on this product including load values, approvals/listings, general suitability, finishes, quality, etc.

To consult directly with a team member regarding our modular support system products, contact Hilti's team of technical support specialists between the hours of 7:00am – 6:00pm CST.

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3.0 MODULAR SUPPORT SYSTEM

3.2.2 MT BASE CONNECTORS

MT-B-GXL O4 OC

Description

4-hole base plate for MT-100 girder structures to concrete.

Material Specifications

Standard ¹	Grade ¹	F _y , ksi (MPa)	F _u , ksi (MPa)
GB/T 1591	Q355 B	51.49 (355)	68.17 (470)

1. Mechanical properties of GB/T 1591 Grade Q355 B meet or exceed the mechanical properties of ASTM A1011 SS Grade 50.

Corrosion Protection

Hot-Dipped Galvanized (HDG)

MT-B-GXL O4 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-B-GXL O4 OC	30.86 (14)	1	2272104

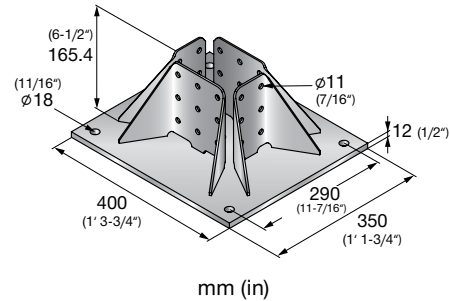
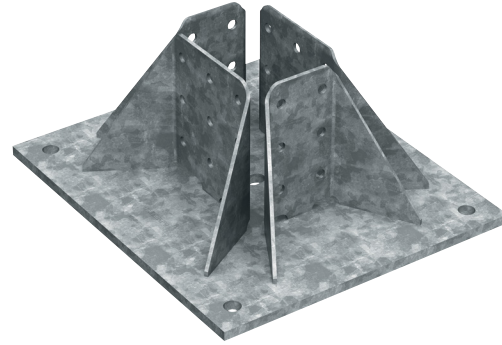
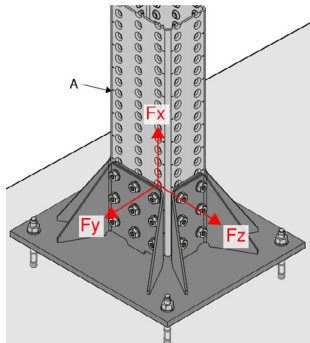


Figure 17 - MT Girder Anchoring to Concrete



A. MT-100

Table 91 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y lb ft (kN m)	M _z lb ft (kN m)
32,340 (143.9)	19,470 (86.63)	20,750 (92.32)	13,050 (17.70)	8,640 (11.72)

1. Minimum safety factor, Ω , for tabulated values is 2.0.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 17.
4. Load values are for base connector only. Design professional is responsible for checking concrete and fastener strength.

Table 92 - Limit State Design (LSD) Load Data^{1,2,3}



F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y lb ft (kN m)	M _z lb ft (kN m)
45,860 (204.0)	27,580 (122.7)	29,380 (130.7)	16,980 (23.02)	11,240 (15.24)

1. Maximum resistance factor, Φ , for tabulated values is 0.70.
2. See Figure 17.
3. Load values are for base connector only. Design professional is responsible for checking concrete and fastener strength.