



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-GL O4C OC

Description

4-hole productivity base plate for MT-90 for girder-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-GL O4C OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-B-GL O4C OC	15.05 (6.83)	2	2343282

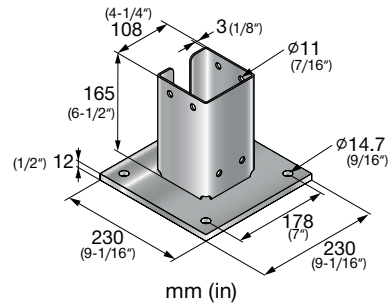
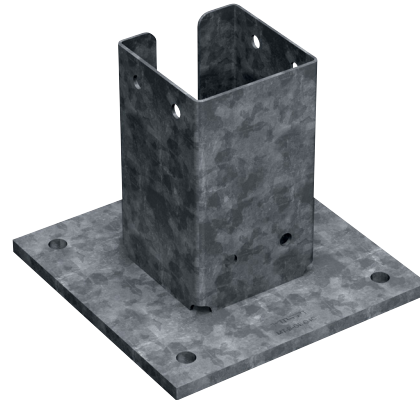


Figure 26 - MT-90 Anchoring to Concrete

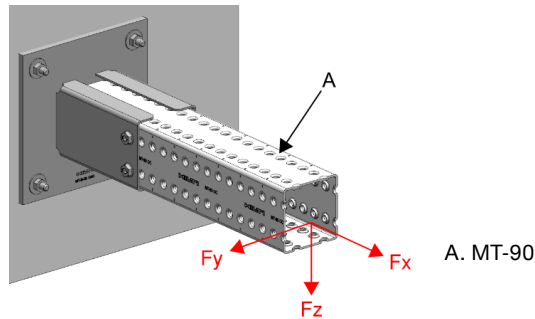


Table 109 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y lb ft (kN m)	M _z lb ft (kN m)
9,835 (43.76)	2,250 (10.01)	3,255 (14.50)	2,300 (3.12)	1,125 (1.53)

1. Minimum safety factor, Ω , for tabulated values is 2.75.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. Load values are for base connector only. The design professional is responsible for checking concrete and fastener strength.
4. See Figure 26.

Table 110 - 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)
13,965 (62.12)	3,380 (15.04)	4,560 (20.30)	2,905 (3.94)	3,190 (4.33)

1. Maximum resistance factor, Φ , for tabulated values is 0.6.
2. Load values are for base connector only. The design professional is responsible for checking concrete and fastener strength.
3. See Figure 26.