



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.

US: 877-749-6337 or HNATechnicalServices@hilti.com

CA: 1-800-363-4458, ext. 6 or CATechnicalServices@hilti.com

3.0 MODULAR SUPPORT SYSTEM

3.2.5 MT BEAM CONNECTORS

MT-U-GL1 OC

Description

T-Post beam connector (horizontal) for MT-90 and MT-100.

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-U-GL1 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-U-GL1 OC	19.48 (8.84)	2	2272070

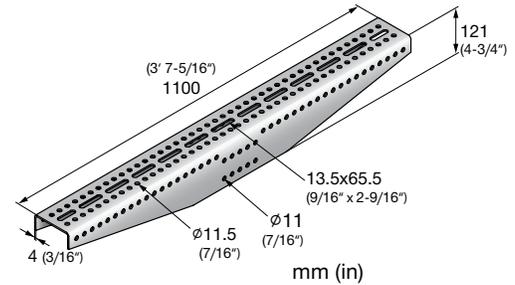
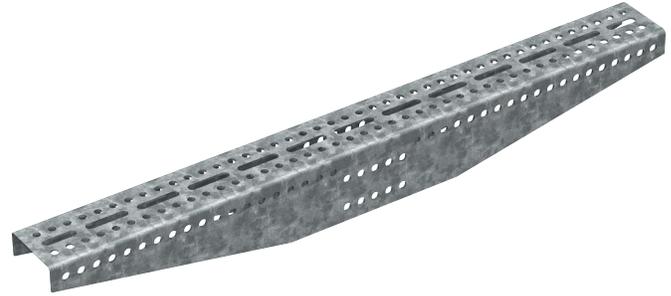


Figure 68 - T-Beam to MT Connection

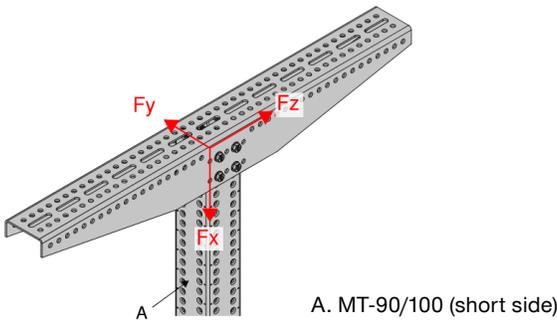


Table 193 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)
14,545 (64.70)	1,545 (6.88)	4,690 (20.88)	1,940 (2.63)

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 68.
4. Loading in the negative x-direction is not recommended for this connector.

Table 194 - Limit State Design (LSD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)
18,905 (84.10)	2,255 (10.04)	7,040 (31.32)	2,895 (3.93)

1. Maximum resistance factor, ϕ , for tabulated values is 0.75.
2. See Figure 68.
3. Loading in the negative x-direction is not recommended for this connector.

