



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

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3.0 MODULAR SUPPORT SYSTEM

3.2.8 MT CLAMPS AND CHANNEL TIES

MT-CC-40D

Description

Clamp for channel-to-channel or channel-to-girder connections.

Material Specifications

Standard ¹	Grade ¹	F _y , ksi (MPa)	F _u , ksi (MPa)
GB/T 700	Q235 B	34.08 (235)	53.66 (370)

1. Mechanical properties of GB/T 700 Grade Q235 B meet or exceed the mechanical properties of ASTM A1011 SS Grade 33.

Corrosion Protection

Electro-Galvanized (EG)

MT-CC-40D

Hot-Dipped Galvanized (HDG)

MT-CC-40D OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-CC-40D	1.02 (0.47)	10	2322398
MT-CC-40D OC	1.02 (0.47)	10	2322399

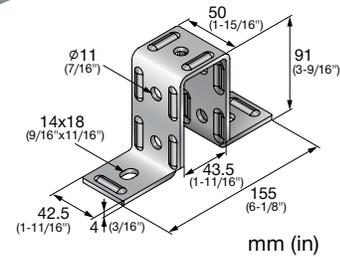
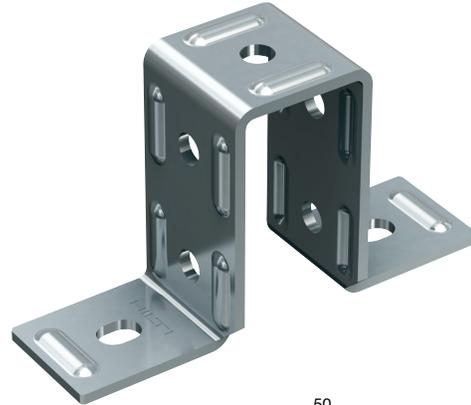
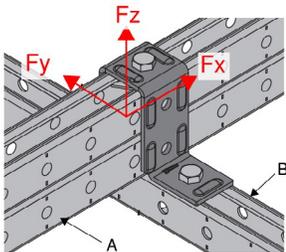


Figure 88 - Channel-to-Channel Connection



A. MT-40D
B. MT-30/50/60/40D

Table 225 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
1,010 (4.50)	1,685 (7.50)	1,120 (5.00)

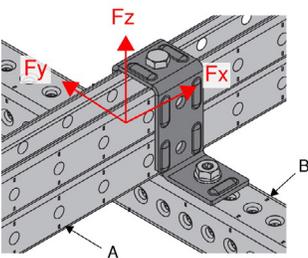
1. Minimum safety factor, Ω , for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 88.
4. Loading in the negative Z-direction is not recommended for this connector.

Table 226 - Limit State Design (LSD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
1,405 (6.26)	2,345 (10.44)	1,560 (6.96)

1. Maximum resistance factor, ϕ , for tabulated values is 0.55.
2. See Figure 88.
3. Loading in the negative Z-direction is not recommended for this connector.

Figure 89 - Channel-to-Girder Connection



A. MT-40D
B. MT-70/80/90/100

Table 227 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
1,010 (4.50)	2,035 (9.06)	1,645 (7.33)

1. Minimum safety factor, Ω , for tabulated values is 2.35.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 89.
4. Loading in the negative Z-direction is not recommended for this connector.

Table 228 - Limit State Design (LSD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
1,405 (6.26)	2,645 (11.78)	2,140 (9.53)

1. Maximum resistance factor, ϕ , for tabulated values is 0.55.
2. See Figure 89.
3. Loading in the negative Z-direction is not recommended for this connector.