

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

3.2.8 MT CLAMPS AND CHANNEL TIES

MT-CC-70 OC

Description

Clamp for girder-to-channel or girder-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)

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

Corrosion Protection

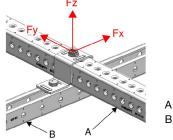
Hot-Dipped Galvanized (HDG)

MT-CC-70 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-CC-70 OC	0.79 (0.36)	16	2322404

Figure 90 - Girder-to-Channel Connection



A. MT-70

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

Ø11 (7/16) 47.5 (1-7/8')

011 (7/16') 42.5 (1-11/16') 42.5 (1-11/16') (1-11/16') (1-11/16') (1-11/16') (1-11/16') (1-11/16') (1-11/16')

Table 229 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
700	2,105	1,120
(3.12)	(9.38)	(5.00)

- 1. Minimum safety factor, Ω , for tabulated values is 2.6.
- Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
- 3. See Figure 90.
- Loading in the negative Z-direction is not recommended for this connector.

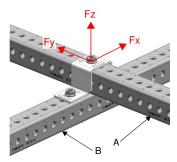
Table 230 - Limit State Design (LSD) Load Data^{1,2,3}



F _x	F _y	F _z
lb (kN)	lb (kN)	lb (kN)
975	2,930	1,560
(4.35)	(13.05)	(6.96)

- 1. Maximum resistance factor, φ, for tabulated values is 0.55.
- 2. See Figure 90.
- Loading in the negative Z-direction is not recommended for this connector.

Figure 91 - Girder-to-Girder Connection



A. MT-70

B. MT-70/80/90/100

Table 231 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x	F _y	F _z
lb (kN)	lb (kN)	lb (kN)
2,545	2,035	2,055
(11.33)	(9.06)	(9.16)

- 1. Minimum safety factor, Ω, for tabulated values is 2.35.
- Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
- 3. See Figure 915.
- Loading in the negative Z-direction is not recommended for this connector.

Table 232 - Limit State Design (LSD) Load Data^{1,2,3}



	F _x	F _y	F _z
	lb (kN)	lb (kN)	lb (kN)
	3,310	2,645	2,675
	(14.73)	(11.78)	(11.91)

- 1. Maximum resistance factor, φ, for tabulated values is 0.55.
- 2. See Figure 9
- 3. Loading in the negative Z-direction is not recommended for this connector.