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

Hilti, Inc.
7250 Dallas Parkway, Suite 1000
Plano, TX 75024

1-800-879-8000
www.hilti.com

3.0 MODULAR SUPPORT SYSTEM

3.2.8 MT CLAMPS AND CHANNEL TIES

MT-CC-40/50

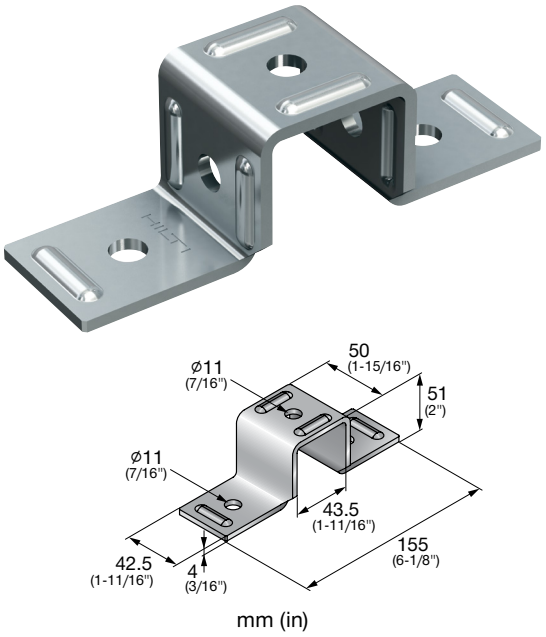
Description

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.



mm (in)

Corrosion Protection

Electro-Galvanized (EG)

MT-CC-40/50

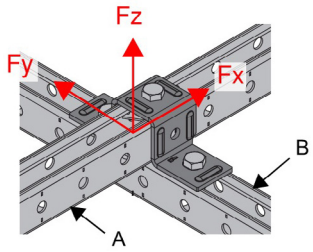
Hot-Dipped Galvanized (HDG)

MT-CC-40/50 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-CC-40/50	0.70 (0.32)	20	2322429
MT-CC-40/50 OC	0.70 (0.32)	20	2322391

Figure 86 - Channel-to-Channel Connection



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

Table 221 - 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)

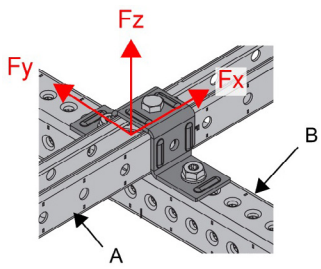
1. Minimum safety factor, Ω, for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 86.
4. Loading in the negative Z-direction is not recommended for this connector.

Table 222 - 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 86.
3. Loading in the negative Z-direction is not recommended for this connector.

Figure 87 - Channel-to-Girder Connection



A. MT-50
B. MT-70/80/90/100

Table 223 - 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 87.
4. Loading in the negative Z-direction is not recommended for this connector.

Table 224 - 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 87.
3. Loading in the negative Z-direction is not recommended for this connector.