



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

### 3.2.8 MT CLAMPS AND CHANNEL TIES

#### MT-CT-H5

#### Description

Flat plate for channel-to-channel (same size) connections.

#### Material Specifications

Standard <sup>1</sup>	Grade <sup>1</sup>	F <sub>y</sub> , ksi (MPa)	F <sub>u</sub> , 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-CT-H5

##### Hot-Dipped Galvanized (HDG)

MT-CT-H5 OC

#### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-CT-H5	0.76 (0.34)	8	2322406
MT-CT-H5 OC	0.76 (0.34)	8	2322410

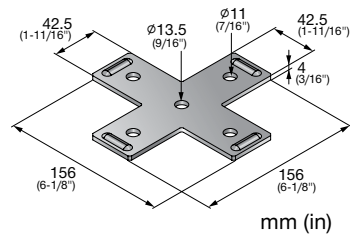
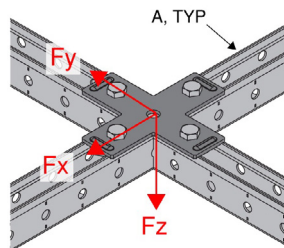


Figure 94 - Single Plate Connection



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

Table 237- Allowable Strength Design (ASD) Load Data<sup>1,2,3</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
550 (2.46)	505 (2.25)	495 (2.22)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.65.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 94.

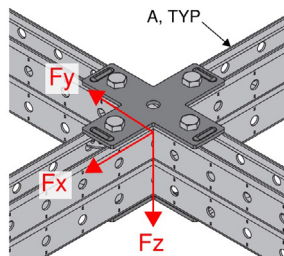
Table 238- Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
715 (3.19)	645 (2.88)	640 (2.86)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.5.
2. See Figure 94.

Figure 95 - Double Plate Connection



A. MT-40D

Table 239 - Allowable Strength Design (ASD) Load Data<sup>1,2,3,4</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
1,340 (5.98)	1,010 (4.50)	1,615 (7.19)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.65.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. Tabulated values are based on plates being installed in pairs.
4. See Figure 95.

Table 240 - Limit State Design (LSD) Load Data<sup>1,2,3</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
1,745 (7.77)	1,290 (5.75)	2,100 (9.35)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.5.
2. Tabulated values are based on plates being installed in pairs.
3. See Figure 95.