



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

### 3.2.3 MT SYSTEM CONNECTORS

#### MT-C-GLP T A OC

#### Description

Adjustable gusset plate for T-shaped connections with MT-80, MT-90, or MT-100 girders.

#### Material Specifications

Standard <sup>1</sup>	Grade <sup>1</sup>	F <sub>y</sub> , ksi (MPa)	F <sub>u</sub> , 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-C-GLP T A OC

#### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-GLP T A OC	2.14 (0.97)	8	2332784

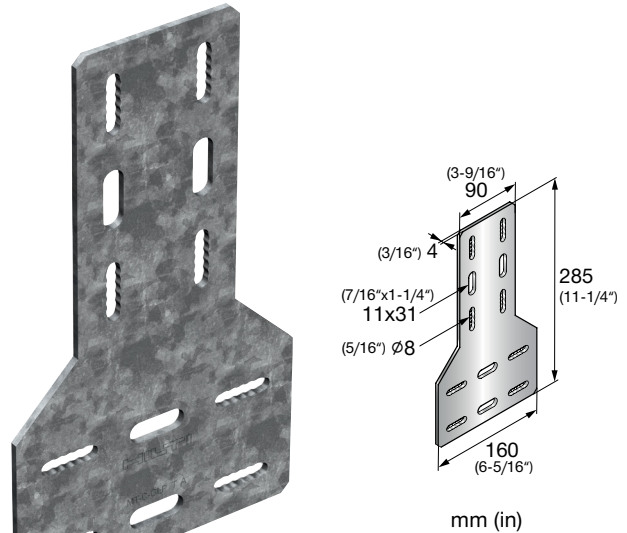


Figure 53 - MT Girder Connection

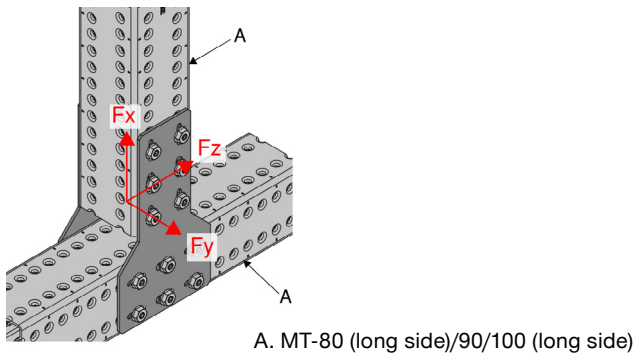


Table 163 - Allowable Strength Design (ASD) Load Data<sup>1,2,3,4</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)	M <sub>y</sub> ft lb (kN m)	M <sub>z</sub> ft lb (kN m)
14,685 (65.33)	960 (4.28)	5,485 (24.42)	1,865 (2.53)	1,320 (1.79)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.2.
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 53.

Table 164 - 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)	M <sub>y</sub> ft lb (kN m)	M <sub>z</sub> ft lb (kN m)
22,070 (98.19)	1,445 (6.43)	7,245 (32.24)	2,800 (3.80)	1,865 (2.53)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.7.
2. Tabulated values are based on plates being installed in pairs.
3. See Figure 53.

Figure 54 - MT Girder Connection

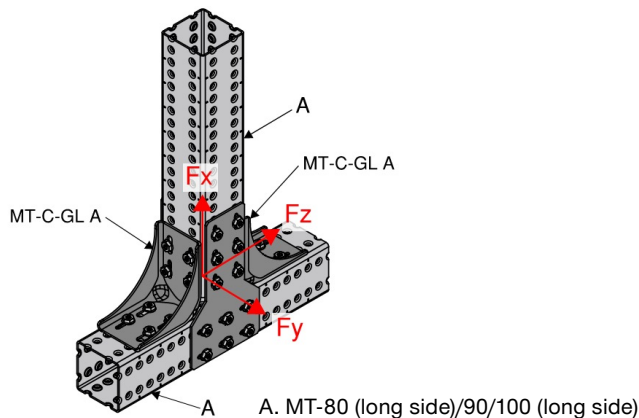


Table 165 - Allowable Strength Design (ASD) Load Data<sup>1,2,3,4</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)	M <sub>y</sub> ft lb (kN m)	M <sub>z</sub> ft lb (kN m)
16,820 (74.83)	3,390 (15.10)	7,625 (33.92)	2,950 (4.00)	2,565 (3.48)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.4.
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 54.

Table 166 - 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)	M <sub>y</sub> ft lb (kN m)	M <sub>z</sub> ft lb (kN m)
23,870 (106.22)	4,815 (21.43)	9,910 (44.10)	4,180 (5.67)	3,580 (4.86)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.6.
2. Tabulated values are based on plates being installed in pairs.
3. See Figure 54.