



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-GS A OC

#### Description

Adjustable angle bracket for girder-to-girder 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 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-GS A OC

#### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-GS A OC	0.86 (0.39)	10	2272068

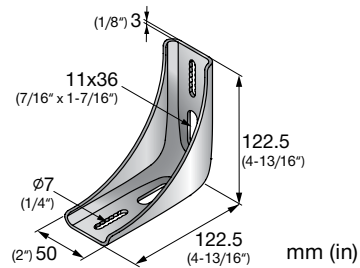
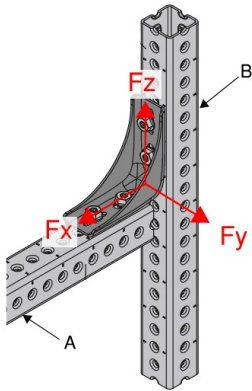


Figure 43 - MT Single Angle Connection



A. MT-70/80 (short side)  
B. MT-70/80/90/100

Table 143 - 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)
990 (4.42)	535 (2.40)	2,070 (9.23)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.0.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 43.

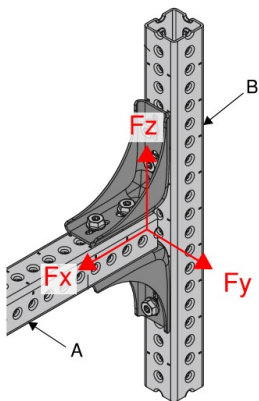
Table 144 - Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
1,445 (6.44)	810 (3.61)	2,675 (11.91)

1. Maximum resistance factor,  $\Phi$ , for tabulated values is 0.7.
2. See Figure 43.

Figure 44 - MT Double Angle Connection



A. MT-70/80 (short side)  
B. MT-70/80/90/100

Table 145 - 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)	M <sub>y</sub> ft lb (kN m)
3,295 (14.66)	1,585 (7.07)	5,965 (26.54)	1,045 (1.42)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.0.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 44.

Table 146 - 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)	M <sub>y</sub> ft lb (kN m)
4,280 (19.06)	2,385 (10.63)	8,685 (38.65)	1,525 (2.07)

1. Maximum resistance factor,  $\Phi$ , for tabulated values is 0.75.
2. See Figure 44.