



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 OC

#### Description

Angle connector for girder and channel connections. Use as base for attachment to concrete or steel (X-BT/S-BT/F-BT compatible).

#### 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 OC

#### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-GS OC	0.88 (0.40)	10	2272064

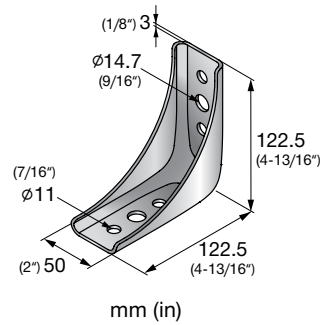
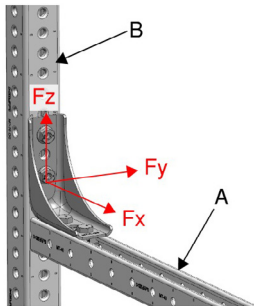


Figure 39 - MT Channel Connection to Girder



A. MT-30/50/60/40D  
B. MT-70/80/90/100

Table 135 - 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)
1,230 (5.50)	310 (1.37)	950 (4.21)

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 39.

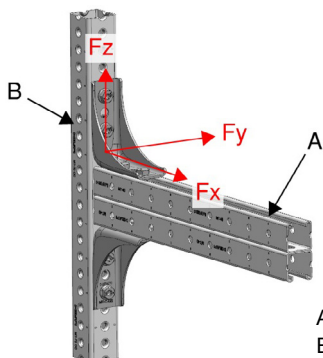
Table 136 - Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
1,860 (8.27)	465 (2.07)	1,230 (5.47)

1. Maximum resistance factor,  $\Phi$ , for tabulated values is 0.70.
2. See Figure 39.

Figure 40 - MT Double Angle Connection



A. MT-40D  
B. MT-70/80/90/100

Table 137 - 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)
1,970 (8.78)	250 (1.13)	2,130 (9.49)	715 (0.97)

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 40.

Table 138 - 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)
2,785 (12.39)	380 (1.70)	3,205 (14.27)	925 (1.26)

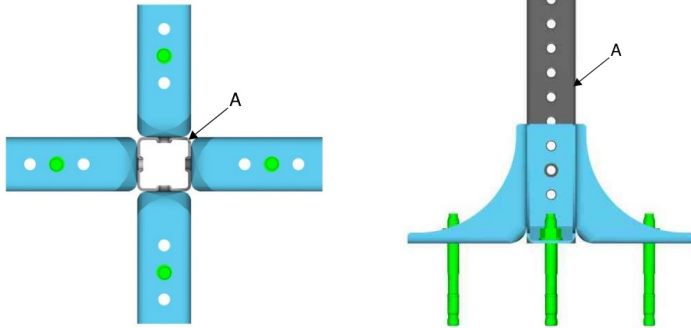
1. Maximum resistance factor,  $\Phi$ , for tabulated values is 0.70.
2. See Figure 40.

## 3.0 MODULAR SUPPORT SYSTEM

### 3.2.3 MT SYSTEM CONNECTORS

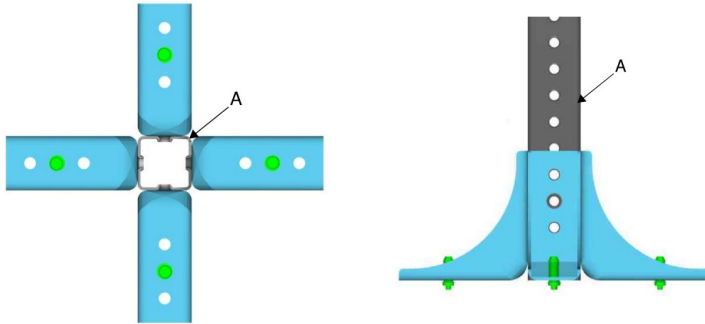
#### Additional Variants

##### Anchorage to Concrete



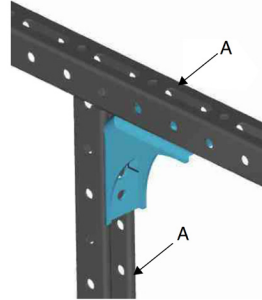
A. MT-70

##### Direct Fasten to Steel



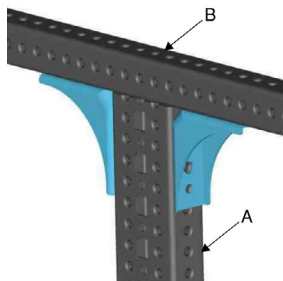
A. MT-70

##### Single Angle Connection to MT Channel



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

##### Double Angle Connection to MT Girder



A. MT-80  
B. MT-70/80

\*Technical data for additional variants shown are available upon request.