



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.

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3.0 MODULAR SUPPORT SYSTEM

3.2.3 MT SYSTEM CONNECTORS

MT-C-GL A OC

Description

Adjustable connector for MT-80 (long side), MT-90, and MT-100 girders.

Material Specifications

Standard ¹	Grade ¹	F _y , ksi (MPa)	F _u , 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-GL A OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-GL A OC	2.53 (1.15)	10	2272069

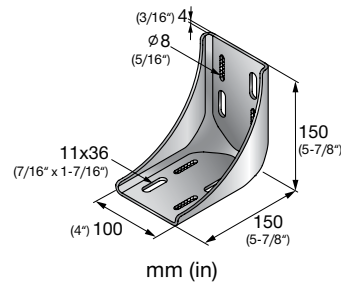
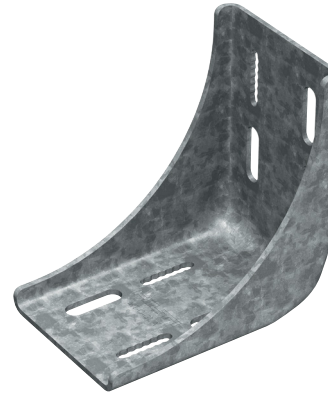
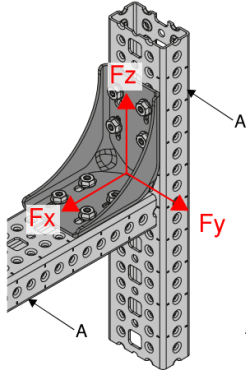
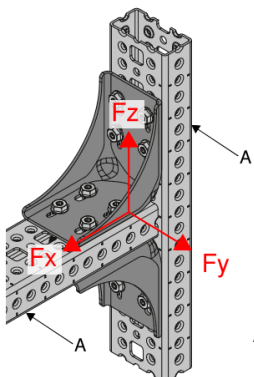


Figure 45 - MT Single Angle Connection



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

Figure 46 - MT Double Angle Connection



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

Table 147 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
2,995 (13.33)	2,620 (11.66)	3,000 (13.36)

1. Minimum safety factor, Ω , for tabulated values is 2.1.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 45.

Table 148 - Limit State Design (LSD) Load Data^{1,2}



F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
4,495 (20.00)	3,935 (17.52)	4,510 (20.08)

1. Maximum resistance factor, ϕ , for tabulated values is 0.7.
2. See Figure 45.

Table 149 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)
6,560 (29.20)	5,275 (23.47)	5,615 (24.99)	1,320 (1.79)

1. Minimum safety factor, Ω , for tabulated values is 2.2.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 46.

Table 150 - Limit State Design (LSD) Load Data^{1,2}



F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)
8,530 (37.96)	7,635 (33.97)	7,970 (35.47)	1,870 (2.54)

1. Maximum resistance factor, ϕ , for tabulated values is 0.65.
2. See Figure 46.