



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-GSP T A OC

Description

Adjustable gusset plate for T-shaped connections with MT-70 and MT-80 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-GSP T A OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-GSP T A OC	1.04 (0.47)	10	2332785

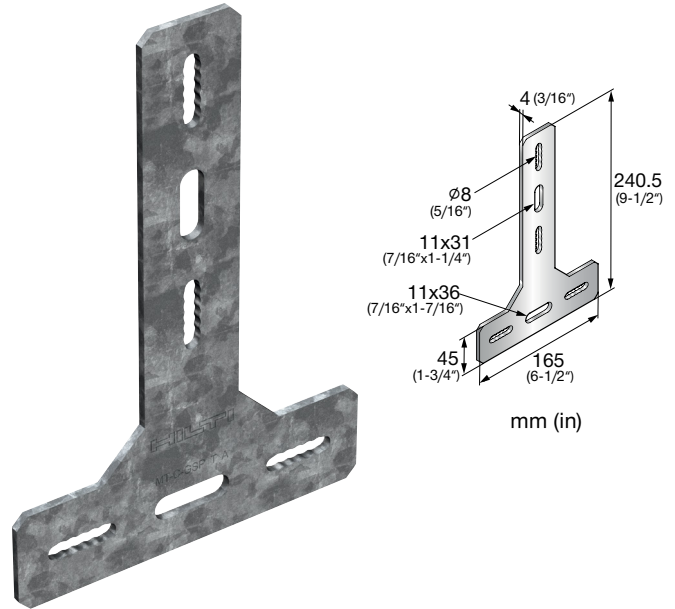
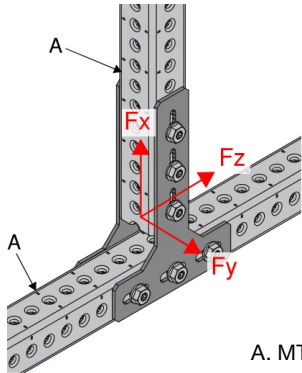
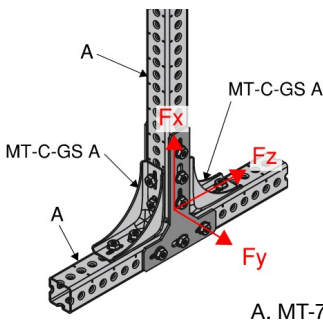


Figure 55 - MT Girder Connection



A. MT-70/80 (long side)

Figure 56 - MT Girder Connection



A. MT-70/80 (long side)

Table 167 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)	M _z ft lb (kN m)
7,420 (33.02)	455 (2.04)	3,725 (16.59)	505 (0.69)	485 (0.66)

1. Minimum safety factor, Ω , for tabulated values is 2.25.
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 55.

Table 168 - Limit State Design (LSD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)	M _z ft lb (kN m)
10,535 (46.87)	690 (3.07)	5,290 (23.55)	720 (0.98)	690 (0.94)

1. Maximum resistance factor, ϕ , for tabulated values is 0.65.
2. Tabulated values are based on plates being installed in pairs.
3. See Figure 55.

Table 169 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)	M _z ft lb (kN m)
7,495 (33.34)	1,250 (5.57)	4,605 (20.49)	940 (1.28)	715 (0.97)

1. Minimum safety factor, Ω , for tabulated values is 2.0.
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 56.

Table 170 - Limit State Design (LSD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)	M _z ft lb (kN m)
9,740 (43.34)	1,885 (8.39)	6,535 (29.08)	1,320 (1.79)	1,010 (1.37)

1. Maximum resistance factor, ϕ , for tabulated values is 0.75.
2. Tabulated values are based on plates being installed in pairs.
3. See Figure 56.