



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-T 3D/2

Description

Two-sided 3D connector for channel.

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

Electro-Galvanized (EG)

MT-C-T 3D/2

Hot-Dipped Galvanized (HDG)

MT-C-T 3D/2 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-T 3D/2	0.92 (0.42)	10	2272058
MT-C-T 3D/2 OC	0.92 (0.42)	10	2272059

Figure 36 - MT Channel Connection

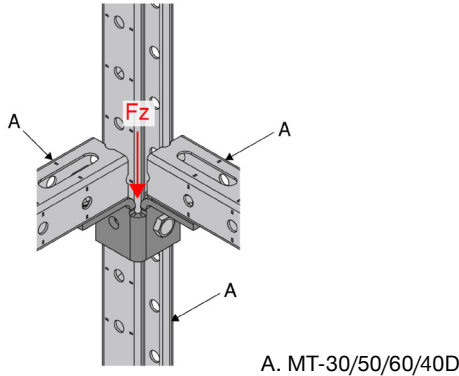


Figure 37 - MT Channel Connection

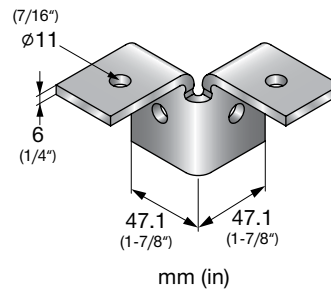
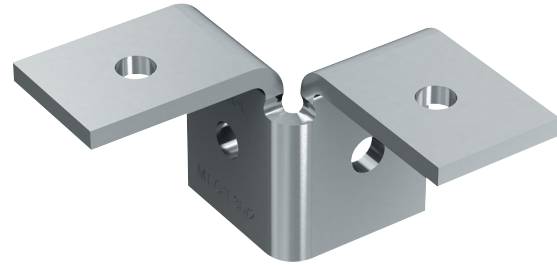
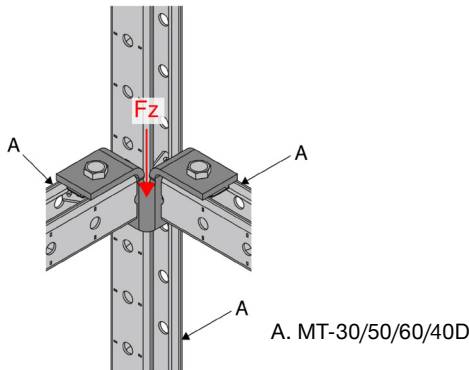


Table 29 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _z lb (kN)
1,010 (4.50)

1. Minimum safety factor, Ω , for tabulated values is 2.65.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 36.
4. Tabulated values represent the maximum total allowable load of the connector. The applied load on a single horizontal leg cannot exceed 875 lbs (3.91 kN).

Table 130 - Limit State Design (LSD) Load Data^{1,2,3}



F _z lb (kN)
1,405 (6.26)

1. Maximum resistance factor, Φ , for tabulated values is 0.55.
2. See Figure 36.
3. Tabulated values represent the maximum total factored load of the connector. The applied load on a single horizontal leg cannot exceed 1,245 lbs (5.54 kN).

Table 131 - Allowable Strength Design (ASD) Load Data^{1,2,3,4}

F _z lb (kN)
1,010 (4.50)

1. Minimum safety factor, Ω , for tabulated values is 2.65.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 37.
4. Tabulated values represent the maximum total allowable load of the connector. The applied load on a single horizontal leg cannot exceed 570 lbs (2.54 kN).

Table 132 - Limit State Design (LSD) Load Data^{1,2,3}



F _z lb (kN)
1,405 (6.26)

1. Maximum resistance factor, Φ , for tabulated values is 0.55.
2. See Figure 37.
3. Tabulated values represent the maximum total factored load of the connector. The applied load on a single horizontal leg cannot exceed 805 lbs (3.60 kN).