



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-T/1

Description

Wing fitting for assembling channel structures.

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

Pre-Galvanized (PG)

MT-C-T/1

Hot-Dipped Galvanized (HDG)

MT-C-T/1 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-T/1	0.97 (0.44)	20	2272040
MT-C-T/1 OC	0.97 (0.44)	20	2272042

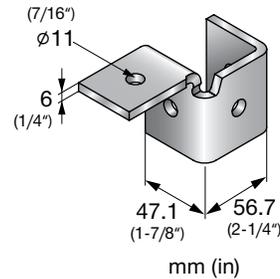
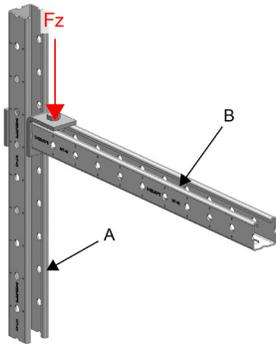


Figure 29 - MT Channel Connection



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

Table 115 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _z lb (kN)
580 (2.60)

1. 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 29.

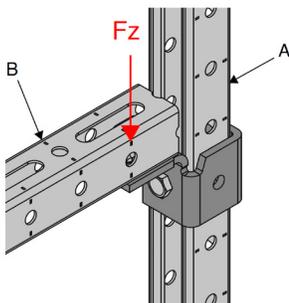
Table 116 - Limit State Design (LSD) Load Data^{1,2}



F _z lb (kN)
825 (3.68)

1. Resistance factor, Φ , for tabulated values is 0.65.
2. See Figure 29.

Figure 30 - MT Channel Connection



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

Table 117 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _z lb (kN)
640 (2.86)

1. 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 30.

Table 118 - Limit State Design (LSD) Load Data^{1,2}



F _z lb (kN)
910 (4.05)

1. Resistance factor, Φ , for tabulated values is 0.65.
2. See Figure 30.