



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-LDP L1 OC

Description

Angle connector for channel-to-LDP (Load Distribution Plate) or MT-70-to-LDP connections.

Material Specifications

Standard ¹	Grade ¹	F_y , ksi (MPa)	F_u , ksi (MPa)
GB/T 700	Q235 B	34.08 (235)	53.66 (370)

1. Mechanical properties of GB/T 700 Grade Q235 B meet or exceed the mechanical properties of ASTM A1011 SS Grade 33.

Corrosion Protection

Hot-Dipped Galvanized (HDG)

MT-C-LDP L1 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-C-LDP L1 OC	0.45 (0.21)	8	2320180

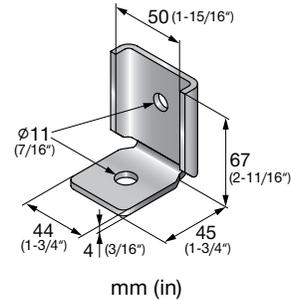


Figure 58 - MT Channel Connection

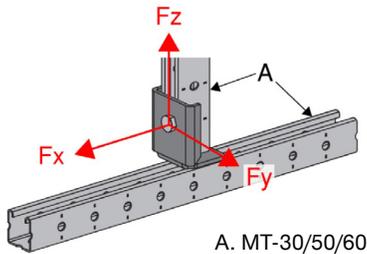


Table 173 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
685 (3.06)	380 (1.71)	450 (2.02)

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. See Figure 58.

Table 174 - Limit State Design (LSD) Load Data^{1,2}



F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
990 (4.41)	575 (2.56)	650 (2.91)

1. Maximum resistance factor, ϕ , for tabulated values is 0.75.
2. See Figure 58.

Figure 59 - MT Girder Connection

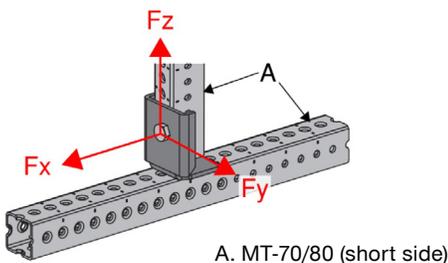


Table 175 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
705 (3.15)	605 (2.70)	1,645 (7.33)

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. See Figure 59.

Table 176 - Limit State Design (LSD) Load Data^{1,2}



F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
1,080 (4.82)	855 (3.82)	2,100 (9.35)

1. Maximum resistance factor, ϕ , for tabulated values is 0.75.
2. See Figure 59.