



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

3.2.4 MT SPLICE CONNECTORS

MT-ES-40

Description

Extension splice for channel.

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

Electro-Galvanized (EG)

MT-ES-40

Hot-Dipped Galvanized (HDG)

MT-ES-40 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-ES-40	1.79 (0.81)	12	2272062
MT-ES-40 OC	1.79 (0.81)	12	2272063

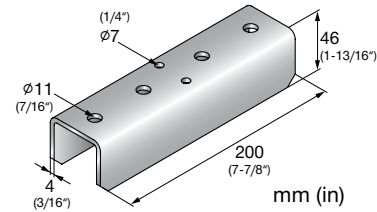


Figure 61 - Channel Splice Connection

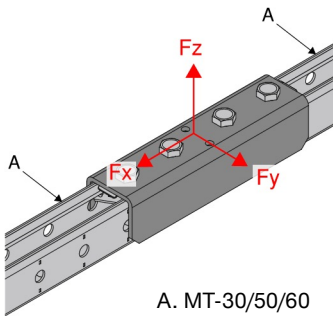


Table 179 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
2,105 (9.38)	130 (0.58)	1,210 (5.40)

1. Minimum safety factor, Ω , for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 61.

Table 180 - Limit State Design (LSD) Load Data^{1,2}



F _x lb (kN)	F _y lb (kN)	F _z lb (kN)
2,930 (13.05)	180 (0.81)	1,685 (7.50)

1. Maximum resistance factor, ϕ , for tabulated values is 0.55.
2. See Figure 61.

Figure 62 - Channel Splice Connection

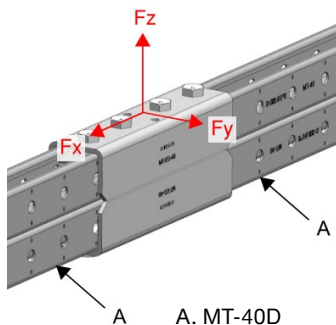


Table 181 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _x lb (kN)	F _y lb (kN)	F _z lb (kN)	M _y ft lb (kN m)
4,215 (18.76)	260 (1.16)	2,425 (10.80)	475 (0.65)

1. Minimum safety factor, Ω , for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 62.

Table 182 - 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)
5,865 (26.10)	360 (1.62)	3,370 (15.00)	665 (0.906)

1. Maximum resistance factor, ϕ , for tabulated values is 0.55.
2. See Figure 62.