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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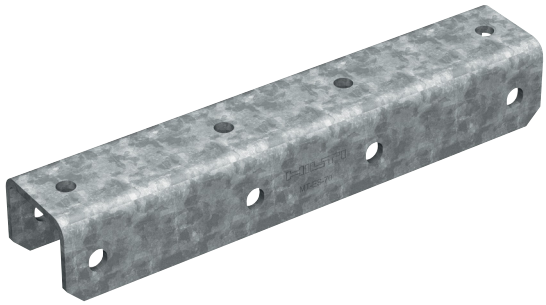
3.0 MODULAR SUPPORT SYSTEM
3.2.4 MT SPLICE CONNECTORS
MT-ES-70 OC

Description

Splice connector for coupling MT-70 or MT-80 girders end-to-end.



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-ES-70 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-ES-70 OC	4.03 (1.83)	4	2272078

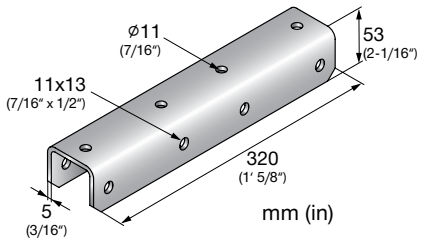
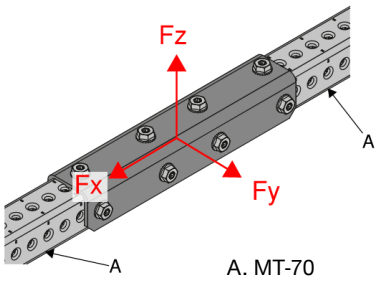


Figure 65 - MT Splice Connection



A. MT-70

Table 187 - Allowable Strength Design (ASD) Load Data[1,2,3]

F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
10,180 (45.30)	1,100 (4.90)	1,795 (8.00)

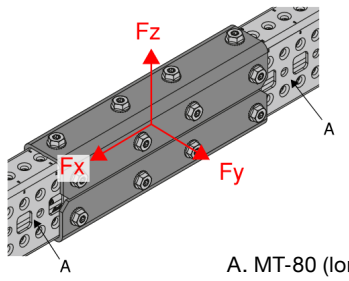
1. Minimum safety factor, Ω, for tabulated values is 2.05.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 65.

Table 188 - Limit State Design (LSD) Load Data[1,2]

F_x lb (kN)	F_y lb (kN)	F_z lb (kN)
13,240 (58.90)	1,435 (6.40)	2,335 (10.40)

1. Maximum resistance factor, ϕ, for tabulated values is 0.75.
2. See Figure 65.

Figure 66 - MT Splice Connection



A. MT-80 (long side)

Table 189 - 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)
20,360 (90.60)	2,200 (9.80)	3,595 (16.00)	3,340 (4.53)

1. Minimum safety factor, Ω, for tabulated values is 2.3.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 66.

Table 190 - 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)
26,480 (117.80)	2,875 (12.80)	4,675 (20.80)	4,340 (5.89)

1. Maximum resistance factor, ϕ, for tabulated values is 0.6.
2. See Figure 66.