

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-90 OC

Description

Splice connector for coupling MT-90 or MT-100 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)

Mechanical properties of GB/T 1591 Grade Q355 B meet or exceed the mechanical properties of ASTM A1011 SS Grade 50.

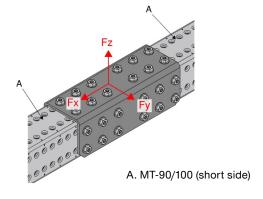
Corrosion Protection Hot-Dipped Galvanized (HDG)

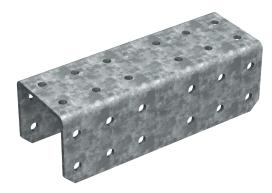
MT-ES-90 OC

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-ES-90 OC	1.79 (0.81)	12	2272076

Figure 67 - MT Splice Connection





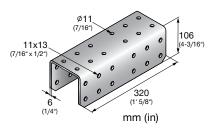


Table 191 - Allowable Strength Design (ASD) Load Data^{1,2,3}

F _x lb (kN)	F _y Ib (kN)	F _z Ib (kN)	M _y ft lb (kN m)
35,960	2,605	3,595	3,200 (4.34)
(160.0)	(11.60)	(16.00)	1

1. Minimum safety factor, Ω , for tabulated values is 2.5.

Table 192 - Limit State Design (LSD) Load Data^{1,2}



F _x	F _y	F _z	M _y
Ib (kN)	Ib (kN)	Ib (kN)	ft lb (kN m)
46,760	3,390	4,675	3,340
(208.0)	(15.10)	(20.80)	(4.53)

Maximum resistance factor, φ, for tabulated values is 0.55.

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Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.

^{3.} See Figure 67.

^{2.} See Figure 67.