



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.

US: 877-749-6337 or [HNATechnicalServices@hilti.com](mailto:HNATechnicalServices@hilti.com)

CA: 1-800-363-4458, ext. 6 or [CATechnicalServices@hilti.com](mailto:CATechnicalServices@hilti.com)

## 3.0 MODULAR SUPPORT SYSTEM

### 3.2.6 MT ANGLE BRACES AND FITTINGS

#### MT-AB-L 45

##### Description

45-degree angle brace for MT-50 channel to concrete and channel-to-channel connections.

##### Material Specifications

Standard <sup>1</sup>	Grade <sup>1</sup>	F <sub>y</sub> , ksi (MPa)	F <sub>u</sub> , 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-AB-L 45

###### Hot-Dipped Galvanized (HDG)

MT-AB-L 45 OC

##### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-AB-L 45	1.06 (0.48)	10	2272113
MT-AB-L 45 OC	1.06 (0.48)	10	2272114

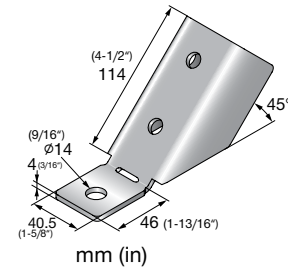
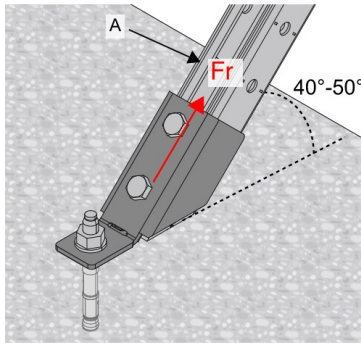


Figure 70 - MT Channel Anchorage to Base



A. MT-50

Table 197 - Allowable Strength Design (ASD) Load Data<sup>1,2,3,4</sup>

F <sub>r</sub> lb (kN)
975 (4.34)

1. Safety factor,  $\Omega$ , for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. Load values are for base connector only. The design professional is responsible for checking concrete and fastener strength.
4. See Figure 70.

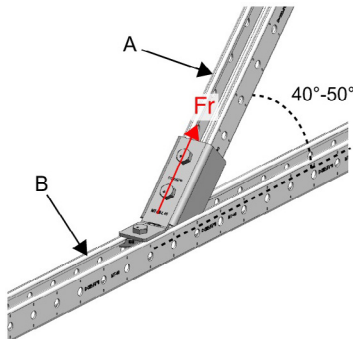
Table 198 - Limit State Design (LSD) Load Data<sup>1,2,3</sup>



F <sub>r</sub> lb (kN)
1,230 (5.48)

1. Resistance factor,  $\phi$ , for tabulated values is 0.55.
2. Load values are for base connector only. The design professional is responsible for checking concrete and fastener strength.
3. See Figure 70.

Figure 71 - MT Channel-to-Channel Connection



A. MT-50

Table 199 - Allowable Strength Design (ASD) Load Data<sup>1,2,3</sup>

F <sub>r</sub> lb (kN)
975 (4.34)

1. Safety factor,  $\Omega$ , 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 71.

Table 200 - Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>r</sub> lb (kN)
1,230 (5.48)

1. Resistance factor,  $\phi$ , for tabulated values is 0.55.
2. See Figure 71.