



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

CA: 1-800-363-4458, ext. 6 or CATechnicalServices@hilti.com

3.0 MODULAR SUPPORT SYSTEM

3.2.9 MT BEAM CLAMPS

MQT-21-41

Description

Beam clamp for connecting channels directly to steel beams.

Corrosion Protection

Electro-Galvanized (EG)

MQT-21-41

Hot-Dipped Galvanized (HDG)

MQT-21-41-F

Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MQT-21-41	0.83 (0.38)	10	369675
MQT-21-41-F	0.79 (0.36)	10	304190

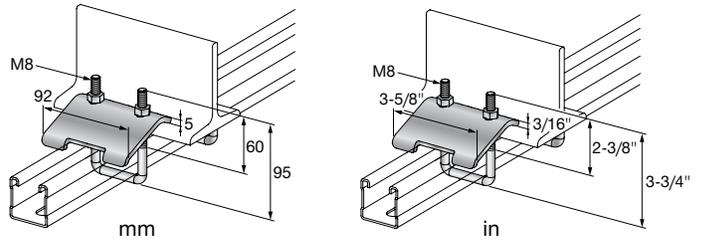
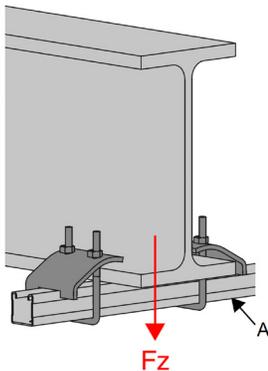


Figure 102 - MT Channel-to-Steel



A. MT-30/50

Table 253 - Allowable Strength Design (ASD) Load Data^{1,2,3,4,5}

F_z lb (kN)
1,350 (6.01)

- Safety factor, Ω , for tabulated values is 3.0.
- Tabulated values represent the total allowable load on a pair of beam clamps. The load resisted by a single beam clamp must not exceed 675 lbs (3.0 kN).
- Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
- The design professional must account for moment decoupling when the applied loads do not occur between the pair of beam clamps.
- See Figure 102.

Table 254 - Limit State Design (LSD) Load Data^{1,2,3,4}



F_z lb (kN)
1,820 (8.11)

- Resistance factor, ϕ , for tabulated values is 0.45.
- Tabulated values represent the total factored design load on a pair of beam clamps. The load resisted by a single beam clamp must not exceed 910 lbs (4.05 kN).
- The design professional must account for moment decoupling when the applied loads do not occur between the pair of beam clamps.
- See Figure 102.