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.

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# 3.0 MODULAR SUPPORT SYSTEM

# 3.2.1 MT CONNECTION MECHANISMS

# MT-CTAB

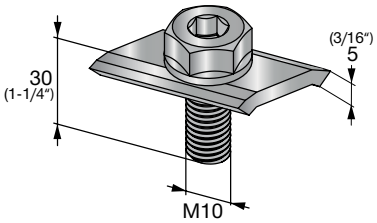
## Description

Screw for channel connections. MT-CTAB screw is fastened using the TX-50 or an 11/16" (17 mm) diameter socket.

### Material Specifications

| Standard[1] | Grade[1] | $F_y$, ksi (MPa) | $F_u$, ksi (MPa) |
|---|---|---|---|
| EN-10025-2 | S235 JR | 34.08 (235) | 53.66 (370) |

1. Mechanical properties of EN-10025-2 Grade S235 JR meet or exceed the mechanical properties of ASTM A1011 SS Grade 33.




mm (in)

## Corrosion Protection

### Electro-Galvanized (EG)

| |
|---|
| **MT-CTAB** |

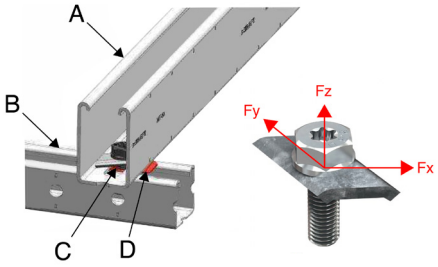
### Hot-Dipped Galvanized (HDG)

| |
|---|
| **MT-CTAB OC** |

### Ordering Information

| Description | Weight Per Piece lbs (kg) | Quantity Piece(s) | Item No. |
|---|---|---|---|
| **MT-CTAB** | 0.11 (0.05) | 100 | 2332797 |
| **MT-CTAB OC** | 0.11 (0.05) | 100 | 2332788 |

### Figure 4 - MT Channel Connection




A. MT-30/50/60
B. MT-40D
C. MT-CTAB
D. MT-TL

### Table 65 - Allowable Strength Design (ASD) Load Data[1,2,3]

| $F_x$ lb (kN) | $F_y$ lb (kN) | $F_z$ lb (kN) |
|---|---|---|
| 415 (1.86) | 505 (2.26) | 1,405 (6.25) |

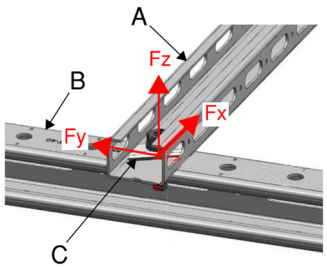
1. Minimum safety factor, Ω, for tabulated values is 2.3.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 4.

### Table 66 - Limit State Design (LSD) Load Data[1,2]

| $F_x$ lb (kN) | $F_y$ lb (kN) | $F_z$ lb (kN) |
|---|---|---|
| 525 (2.35) | 810 (3.61) | 1,850 (8.23) |

1. Maximum resistance factor, Φ, for tabulated values is 0.6.
2. See Figure 4.

### Figure 5 - MT Channel Connection




A. MT-30/50/60
B. MT-50/60
C. MT-CTAB

### Table 67 - Allowable Strength Design (ASD) Load Data[1,2,3]

| $F_x$ lb (kN) | $F_y$ lb (kN) | $F_z$ lb (kN) |
|---|---|---|
| 505 (2.26) | 505 (2.26) | 1,405 (6.25) |

1. Minimum safety factor, Ω, for tabulated values is 2.0.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 5.

### Table 68 - Limit State Design (LSD) Load Data[1,2]

| $F_x$ lb (kN) | $F_y$ lb (kN) | $F_z$ lb (kN) |
|---|---|---|
| 810 (3.61) | 810 (3.61) | 1,850 (8.23) |

1. Maximum resistance factor, Φ, for tabulated values is 0.75.
2. See Figure 5.