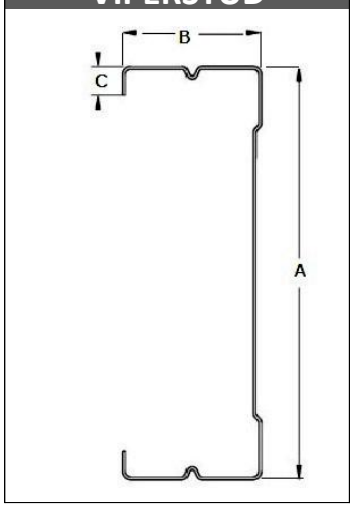
# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** **250VS125-15**

**MARINO\WARE PART #** 212VS25

09.22.16 Non-Structural Metal Stud

**VIPERSTUD**




## PROPERTIES:

| | | | |
|---|---|---|---|
| **A. Web (in)** | 2-1/2" | **Yield Strength Fy (KSI)** | 50 |
| **B. Flange (in)** | 1-1/4" | **Design Thickness (in)** | 0.0155 |
| **C. Lip (in)** | 1/4" | **Minimum Thickness (in)** | 0.0147 |
| **Mils** | 15 | **Gauge EQ** | 25 |
| **Finish** | G40 | | |

## SECTION PROPERTIES

***GROSS SECTION PROPERTIES***

| | |
|---|---|
| Weight of Member: **(lb/ft)** | 0.290 |
| Cross Sectional Area: **A** ($in^2$) | 0.085 |
| Moment of Inertia: **Ix** ($in^4$) | 0.084 |
| Radius of Gyration: **Rx** (in) | 0.998 |
| Gross Moment of Inertia: **Iy** ($in^4$) | 0.017 |
| Gross Radius of Gyration: **Ry** (in) | 0.452 |

***EFFECTIVE SECTION PROPERTIES*** [1]

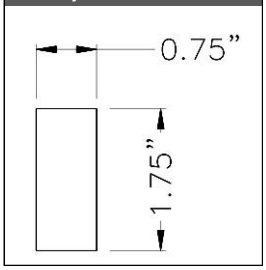
| | |
|---|---|
| Moment of Inertia-Deflection: **Ix** ($in^4$) | 0.090 |
| Section Modulus: **Sx** ($in^3$) | 0.042 |

***MOMENTS*** [1]

| | |
|---|---|
| Allowable Bending Moment: **Ma** (in-k) | 1.170 |
| Local Buckling Nominal Moment: **Mnl** (in-k) | 2.720 |
| Distortional Buckling Nominal Moment: **Mnd** (in-k) | 2.120 |

*Note 1. Tested values*

**Drywall Punchout**




## LIMITING HEIGHTS - COMPOSITE (ft-in)

| | 5 psf | | | 7.5 psf | | | 10 psf | | |
|---|---|---|---|---|---|---|---|---|---|
| Spacing (in) | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 12 | 17-3 | 14-5 | 12-9 | 15-1 | 12-7 | 11-1 | 13-8 | 11-6 | 10-1 |
| 16 | 15-8 | 13-1 | 11-7 | 13-8 | 11-6 | 10-1 | 12-3 | 10-5 | 8-9 |
| 24 | 13-8 | 11-6 | 10-1 | 11-6 | 10-0 | 8-2 | 10-0 | 8-8 | -- |

Composite heights sheathed both sides full height with 5/8" Type X gypsum wallboard per ASTM C 754-09.
Acceptable wallboards are 5/8" type x from: USG, National, GP, Temple, American, Lafarge & CertainTeed
Based on AC86-2010

## CODES & STANDARDS

- IBC 2009 & AISI S100-07 Compliant
- Meets or tested to: ASTM C 645, C 754, E 90 & E 119
- Galvanized steel sheet meets ASTM A 1003 & A 653
- Third Party Code Evaluation Reports: ICC ES ESR#2620 & ATI-ES CCRR-0154
- Multiple UL & Intertek Warnock Hersey Fire Rated Assemblies

## GREEN INFO LEED® v3

Using products manufactured by Marino\WARE® can contribute LEED® points in the following categories:

- MR Credit 2 - Construction Waste Management (1-2 points)
- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)
- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%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