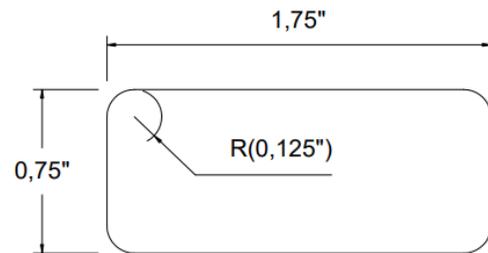
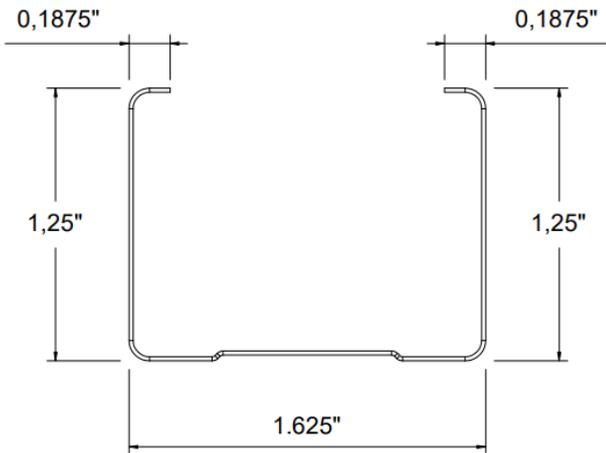


Product Type: Drywall Stud
Product Definition: 162S125-33 33ksi
CSI Code: 09.22.16.13



Punch Out

Profile Properties:

| | | | |
|-------------------|-----------|-------------------------|-------------------|
| Web Depth | 1,625 in | Yield Strength: | 33 ksi |
| Flange Width | 1,250 in | Unit Weight | 0,49 lb/ft |
| Stiffening Lip | 0,1875 in | Punchout Width / Length | 0,75 in / 1,75 in |
| Design Thickness | 0,0346 in | Finish | G40 |
| Minimum Thickness | 0,0329 in | Color Coding | |

Gross Section Properties:

| | | |
|----------------------------|--------|------------------------|
| Cross Sectional Area | Agross | 0,1469 in ² |
| Moment of Inertia, x-axis | Ix | 0,0679 in ⁴ |
| Radius of Gyration, x-axis | rx | 0,6799 in |
| Moment of Inertia, y-axis | Iy | 0,0280 in ⁴ |
| Radius of Gyration, y-axis | ry | 0,4368 in |

Torsional Properties:

| | | |
|--|----------|------------------------|
| St. Venant Torsion Constant | J x 1000 | 0,0586 in ⁴ |
| Warping Constant | Cw | 0,0146 in ⁶ |
| Distance Between Shear Axis and Neutral Axis | x0 | -0,9810 in |
| Polar Radius of Gyration | r0 | 1,2712 in |
| Torsional Flexural Constant | β | 0,3912 |
| Limit of Unbraced Length | Lu | 37,60 in |

Effective Section Properties:

| | | |
|--|------|------------------------|
| Effective Area | Aeff | 0,1445 in ² |
| Effective Moment of Inertia for Deflection | Ixe | 0,0668 in ⁴ |
| Effective Section Modulus | Sxe | 0,0811 in ³ |
| Allowable Bending Moment | Ma | 1,4480 in.k |
| Allowable Shear Force | Vag | 632 lbs |

Codes & Standards:

- Calculations are based on AISI S220-20 and AISI S100-16.
- Complies with IBC2021, ASTM C645, ASTM C754, ASTM A653, ASTM A1003, ASTM E72
- Intertek Certificate of Compliance No: COC-WHI23-37729201
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869

Limiting Heights, Non Composite (ft-in):

| Profile | 5 psf | | | 7,5 psf | | | 10 psf | | |
|---------|--------|-------|-------|---------|-------|--------|--------|--------|-------|
| | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 12 | 12' 1" | 9' 7" | 8' 5" | 10' 7" | 8' 5" | 7' 4" | 9' 7" | 7' 7" | 6' 8" |
| 16 | 11' 0" | 8' 9" | 7' 7" | 9' 7" | 7' 7" | 6' 8" | 8' 8" | 6' 11" | 6' 0" |
| 24 | 9' 7" | 7' 7" | 6' 8" | 8' 2" | 6' 8" | 5' 10" | 7' 1" | 6' 0" | 5' 3" |

- Heights are based on AISI S220-20 and AISI S100-16, using steel properties alone.
- Above listed Non-Composite Limiting Heights are applicable when the unbraced length is less than or equal to Lu. Heights are limited by moment, deflection and shear.

Limiting Heights, Composite – Fully Braced (ft-in):

| Profile | 5 psf | | | 7,5 psf | | | 10 psf | | |
|---------|--------|--------|--------|---------|--------|-------|--------|-------|-------|
| | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 | L/120 | L/240 | L/360 |
| 12 | 15' 4" | 12' 2" | 10' 8" | 13' 6" | 10' 8" | 9' 2" | 12' 2" | 9' 7" | 8' 2" |
| 16 | 14' 0" | 11' 1" | 9' 7" | 12' 2" | 9' 8" | 8' 2" | 11' 1" | 8' 6" | - |
| 24 | 12' 2" | 9' 7" | 8' 2" | 10' 8" | 8' 2" | - | 9' 7" | - | - |

- The composite limiting heights are conservatively derived from ASTM C754-20 and based on a single layer of 5/8" Type X gypsum board to each stud flange.
- The gypsum board must be applied full height in the vertical orientation in accordance with ASTM C754 using minimum No. 6 Type S Drywall screws.
- Screws shall be spaced a maximum of 16 in on-center to framing members (including top & bottom track] spaced at 16 in or 12 in on-center.
- Screws shall be spaced a maximum of 12 in on-center to framing members (including top & bottom track] spaced at 24 in on-center.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754.

Stud end bearing must be a minimum of 1 inch.