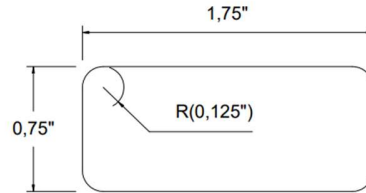
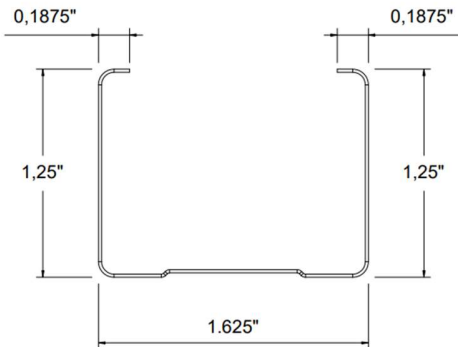


Product Type: Drywall Stud
Product Definition: 162S125-30 33ksi
CSI Code: 09.22.16.13



Punch Out

Profile Properties:

| | |
|-------------------|-----------|
| Web Depth | 1,625 in |
| Flange Width | 1,250 in |
| Stiffening Lip | 0,1875 in |
| Design Thickness | 0,0312 in |
| Minimum Thickness | 0,0296 in |

| | |
|-------------------------|-------------------|
| Yield Strength: | 33 ksi |
| Unit Weight | 0,44 lb/ft |
| Punchout Width / Length | 0,75 in / 1,75 in |
| Finish | G40 |
| Color Coding | Pink |

Gross Section Properties:

| | | |
|----------------------------|--------|------------------------|
| Cross Sectional Area | Agross | 0,1316 in ² |
| Moment of Inertia, x-axis | Ix | 0,0611 in ⁴ |
| Radius of Gyration, x-axis | rx | 0,6811 in |
| Moment of Inertia, y-axis | Iy | 0,0257 in ⁴ |
| Radius of Gyration, y-axis | ry | 0,4417 in |

Torsional Properties:

| | | |
|--|----------|------------------------|
| St. Venant Torsion Constant | J x 1000 | 0,0427 in ⁴ |
| Warping Constant | Cw | 0,0144 in ⁶ |
| Distance Between Shear Axis and Neutral Axis | x0 | -1,0140 in |
| Polar Radius of Gyration | r0 | 1,2989 in |
| Torsional Flexural Constant | β | 0,3906 |
| Limit of Unbraced Length | Lu | 37,80 in |

Effective Section Properties:

| | | |
|--|------|------------------------|
| Effective Area | Aeff | 0,1286 in ² |
| Effective Moment of Inertia for Deflection | Ixe | 0,0596 in ⁴ |
| Effective Section Modulus | Sxe | 0,0734 in ³ |
| Allowable Bending Moment | Ma | 1,1900 in.k |
| Allowable Shear Force | Vag | 551 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 | 11' - 9" | 9' - 4" | 8' - 1" | 10' - 3" | 8' - 1" | 7' - 1" | 9' - 4" | 7' - 5" | 6' - 5" |
| 16 | 10' - 8" | 8' - 5" | 7' - 5" | 9' - 4" | 7' - 5" | 6' - 5" | 8' - 1" | 6' - 8" | 5' - 10" |
| 24 | 9' - 4" | 7' - 5" | 6' - 5" | 7' - 8" | 6' - 5" | 5' - 8" | 6' - 8" | 5' - 10" | 5' - 1" |

- 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 L_u . 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 | 14' - 11" | 11' - 10" | 10' - 4" | 13' - 1" | 10' - 4" | 8' - 11" | 11' - 10" | 9' - 4" | 7' - 11" |
| 16 | 13' - 7" | 10' - 9" | 9' - 4" | 11' - 10" | 9' - 4" | 7' - 11" | 10' - 9" | 8' - 3" | - |
| 24 | 11' - 10" | 9' - 4" | 7' - 11" | 10' - 4" | 7' - 11" | - | 9' - 4" | - | - |

- The composite limiting heights are taken 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.

