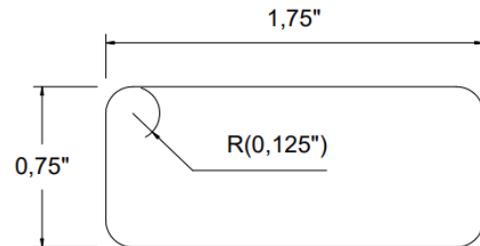
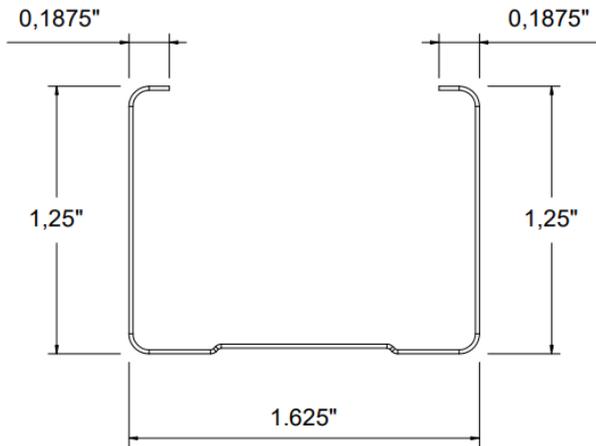


Product Type: Drywall Stud
Product Definition: 162S125-18 20EQ
CSI Code: 09.22.16.13



Punch Out

Profile Properties:

Web Depth	1,625 in	Yield Strength:	70 ksi
Flange Width	1,250 in	Unit Weight	0,27 lb/ft
Stiffening Lip	0,1875 in	Punchout Width / Length	0,75 in / 1,75 in
Design Thickness	0,0188 in	Finish	G40
Minimum Thickness	0,0179 in	Color Coding	

Gross Section Properties:

Cross Sectional Area	Agross	0,0809 in ²
Moment of Inertia, x-axis	Ix	0,0381 in ⁴
Radius of Gyration, x-axis	rx	0,6860 in
Moment of Inertia, y-axis	Iy	0,0159 in ⁴
Radius of Gyration, y-axis	ry	0,4431 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0,0095 in ⁴
Warping Constant	Cw	0,0085 in ⁶
Distance Between Shear Axis and Neutral Axis	x0	-0,999 in
Polar Radius of Gyration	r0	1,2906 in
Torsional Flexural Constant	β	0,4005
Limit of Unbraced Length	Lu	28,58 in

Effective Section Properties:

Effective Area	A _{eff}	0,0708 in ²
Effective Moment of Inertia for Deflection	I _{xe}	0,0310 in ⁴
Effective Section Modulus	S _{xe}	0,0336 in ³
Allowable Bending Moment	M _a	1,1083 in.k
Allowable Shear Force	V _{ag}	371 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	9' 3"	7' 4"	6' 5"	8' 1"	6' 5"	5' 7"	7' 4"	5' 10"	5' 1"
16	8' 5"	6' 8"	5' 10"	7' 4"	5' 10"	5' 1"	6' 8"	5' 4"	4' 8"
24	7' 4"	5' 10"	5' 1"	6' 5"	5' 1"	4' 6"	5' 10"	4' 8"	4' 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	13'-2"	11'-5"	10'-0"	11'-6"	10'-0"	8'-5"	10'-6"	8'-9"	-
16	12'-10"	11'-1"	9'-9"	11'-1"	9'-8"	7'-11"	10'-2"	8'-4"	-
24	11' 10"	10'-3"	8'-6"	10'-4"	8'-5"	-	9'-2"	-	-

- 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.