KING STEEL STUDS

PRODUCT SUBMITTAL SHEET

250DS125-33 (33 KSI)

2-1/2" DRYWALL STUD WITH 1-1/4" FLANGE

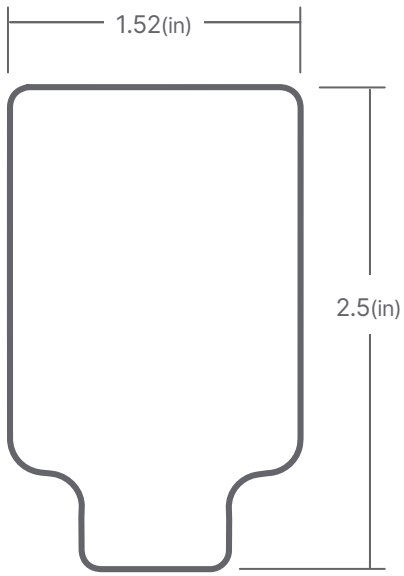
Web Depth	2.50	(in)
Flange Width	1.25	(in)
Lip Length	0.281	(in)
Design Thickness	0.0346	(in)
Min. Deliverable Thickness	0.0329	(in)
Punchout Width	1.52	(in)
Punchout Length	2.5	(in)
Yield Strength, Fy	33	(ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.1821	(in2)
Member weight per foot of length	0.6196	(lb/ft)
Moment of inertia X-X axis (Ix)	0.1845	(in4)
Section Modulus X-X axis (Sxx)	0.1476	(in3)
Radius of gyration X-X Axis (Rx)	1.0067	(in)
Moment of inertia Y-Y axis (Iyy)	0.0373	(in4)
Radius of gyration Y-Y axis (Ry)	0.4526	(in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	0.1845	(in4)
Section Modulus (Sxe)	0.1321	(in3)
Allowable Local Buckling Moment (Ma)	2.61	(in-k)
Allowable Distortional Buckling Moment (Ma-d)	2.56	(in-k)
Allowable shear force in web (Va-g)	1024	(lb)
Allowable shear force in web at Punchout (Vanet)	208	(lb)



TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.0727	(in4)
Warping Constant (Cw)	0.0497	(in6)
Distance from shear center to neutral axis (Xo)	-0.9576	(in)
Distance from shear center to centroid along X-Axis (m)	0.5737	(in)
Radii of gyration (Ro)	1.4613	(in)
Torsional flexural constant (b)	0.5706	

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