KING STEEL STUDS

PRODUCT SUBMITTAL SHEET

400DS125-18 (50 KSI, G40)

4.00 (IN) DRYWALL STUD WITH 1.25 (IN) FLANGE - 18MILS (20GA)
COATING: G40

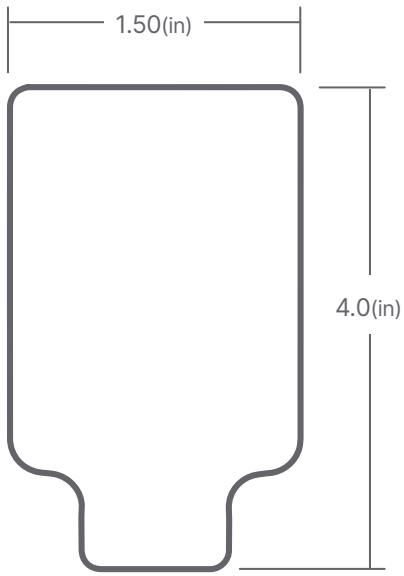
Web Depth	4.000	(in)
Flange Width	1.25	(in)
Lip Length	0.281	(in)
Design Thickness	0.0188	(in)
Min. Deliverable Thickness	0.0179	(in)
Punchout Width	1.5	(in)
Punchout Length	4	(in)
Yield Strength, Fy	50	(ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.1283	(in2)
Member weight per foot of length	0.4367	(lb/ft)
Moment of inertia X-X axis (Ix)	0.3053	(in4)
Section Modulus X-X axis (Sxx)	0.1527	(in3)
Radius of gyration X-X Axis (Rx)	1.5425	(in)
Moment of inertia Y-Y axis (Iyy)	0.0245	(in4)
Radius of gyration Y-Y axis (Ry)	0.4372	(in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	0.2935	(in4)
Section Modulus (Sxe)	0.0853	(in3)
Allowable Local Buckling Moment (Ma)	2.55	(in-k)
Allowable Distortional Buckling Moment (Ma-d)	2.42	(in-k)
Allowable shear force in web (Va-g)	156	(lb)
Allowable shear force in web at Punchout (Vanet)	156	(lb)



TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.0151	(in4)
Warping Constant (Cw)	0.0797	(in6)
Distance from shear center to neutral axis (Xo)	-0.8172	(in)
Radii of gyration (Ro)	1.7995	(in)
Torsional flexural constant (b)	0.7938	

contact@kingsteelstuds.com
855-553-6955