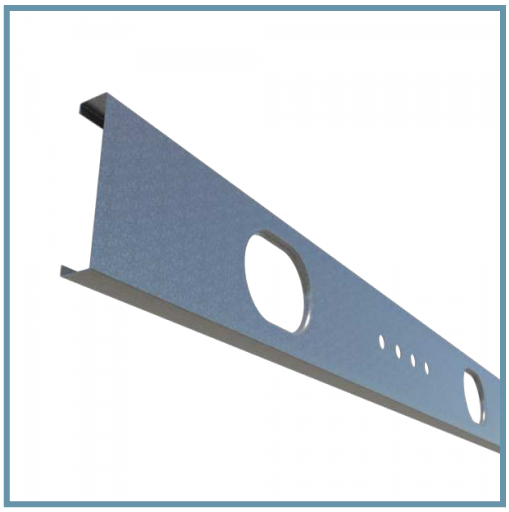
TradeReady® Floor Joist

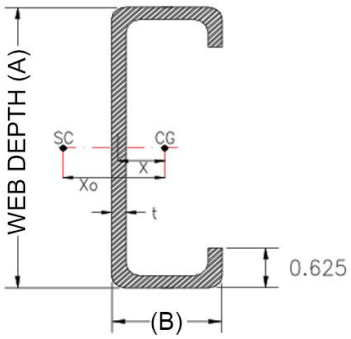
Product category 9-1/4" x 1-3/4" Flange 18ga TradeReady Joist
Product name 925TDJ175-43 (33ksi) - Punched **Finish:** CP60



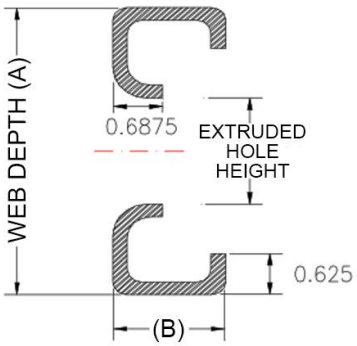
Geometric Properties

Web depth (A):	9.250 in	**Knock Out Shape:**	Ellipse	**Design thickness:**	0.0451 in
Flange width (B):	1.750 in	**Knock Out Height:**	6-1/4"	**Min. steel thickness:**	0.0428 in
Stiffening lip:	0.625 in	**Knock Out Width:**	9"	**Yield stress, Fy:**	33ksi
		Small Hole Dia.:	1-11/32"	**Ultimate, Fu:**	45 ksi

Gross Section Properties of Full Section	
Cross sectional area (A)	0.616 in^2
Member weight per foot of length	2.015 lbs/ft
Moment of inertia (Ix)	7.042 in^4
Radius of gyration (Rx)	3.382 in
Gross moment of inertia (Iy)	0.219 in^4
Gross radius of gyration (Ry)	0.597 in
Net Section Properties (at knockout)	
Cross sectional area (A)	0.372 in^2
Moment of inertia (Ix)	6.508 in^4
Radius of gyration (Rx)	4.184 in
Gross moment of inertia (Iy)	0.152 in^4
Gross radius of gyration (Ry)	0.639 in
Allowable Capacities	
Fully Braced Allowable Moment at Knockout (Ma-kno)	23,366 in-lbs
Fully Braced Allowable Moment at Full Section (Ma-full)	25,414 in-lbs
Allowable Shear at Knockout (Va-kno)	813 lbs
Allowable Shear at Full Section (Va-full)	905 lbs
Torsional Section Properties	
Distance between centroid and shear-center (Xo)	-1.011 in
Distance between centroid and web-centerline (X)	0.353 in
St. Venant torsional constant (J*1000)	0.417 in^4
Torsional warping constant (Cw)	3.849 in^6
Radii of gyration (Ro)	3.580 in
Torsional flexural constant (Beta)	0.920
Effective Section Properties	
Moment of inertia (Ix)	6.711 in^4
Section modulus (Sx)	1.286 in^3



GROSS SECTION



NET SECTION

ASTM & Code Standards:

- AISI North American Specification [NASPEC] 2004
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- SDS & Product Certification Information is available at www.clarkdietrich.com/SupportDocs
- U.S. Patent Nos. 6,301,854; 6,691,478; 6,418,694; 6,691,487; 6,761,005; 7,240,459
- Canadian Patent No. 2319346, Mexican Patent No. 243294