05.40.00 (Cold-Formed Metal Framing)



Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

11-1/4" TradeReady® Floor Joist (1125TDJ24-175-97)

Floor Joist with extruded holes

Geometric Properties

Web depth (A): 11.25 in Flange width (B): 1.75 in **Extrud** Coating

Extruded hole shape: Ellipse Extruded hole Height: 6.25"

Design thickness: 0.1017 in Min. steel thickness: 0.0966 in

Extruded hole spacing: 24 in Coating: CP60	Extruded hole width: 9"	Yield stress, Fy: 50 ksi
Gross Section Properties of Full Section		
Cross sectional area		1.550 in ²
Member weight per foot of length	1	5.087 lbs/ft
Moment of inertia (lx)		24.283 in ⁴
Radius of gyration (Rx)		3.959 in
Gross moment of inertia (ly)		0.445 in ⁴
Gross radius of gyration (Ry)		0.536 in
Net Section Properties (at Extruded Hole)		

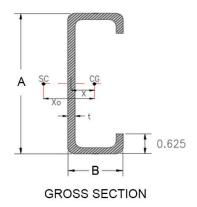
3.959 in			
0.445 in ⁴			
0.536 in			
Net Section Properties (at Extruded Hole)			
1.025 in ²			
23.332 in ⁴			
4.772 in			
0.359 in ⁴			
0.592 in			
Allowable Capacities (Fully Braced)			
124.55 in-kips			
110.42 in-kips			
124.19 in-kips			
93.32 in-kips			
4208 lbs			
8714 lbs			
Torsional Section Properties			
-0.856 in			
0.284 in			
5.345 in ⁴			
12.023 in ⁶			
4.087 in			
0.956			
33.7 in			
Effective Section Properties			
24.200 in ⁴			

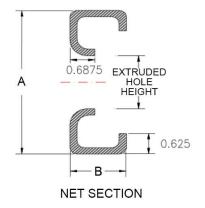
Code Approvals & Performance Standards

Section modulus (Sxe)

- AISI S100-16 (2020) w/S2-20 North American Specification for the Design of Cold-Formed Steel Structural Members
 - o Direct Strength Method (DSM) utilized for calculating flexural strength
- AISI S240-15 North American Standard for Cold-Formed Steel Structural Framing
 - o Section A3 Material Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
 - Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
 - o Section A5 Products Thickness, shapes, tolerances, identification
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories







4.160 in³