

Product Name: 400CTSTUD20 **AISI Nomenclature:** n/a
Product Category: Nonstructural Metal Stud Framing: Specification Section 09 22 16
Product Desc: 4 inch deep 20 CT Shaft wall stud; Includes cavity for 1 inch gypsum liner panel with tabs at 18 inch o.c. Has 1 inch diameter punchouts for wiring.
Available Coatings: G40 (standard); G60, or G90.
Thickness: Design = 0.0346 inch • Minimum = 0.0329400 inch • Mil = 33 mils • Gauge = 20
Flange width: 1-3/8 inch (front flange) • 1-5/8 inch (back flange) • Web Depth: 4 inch • Lip length: 1/4 inch

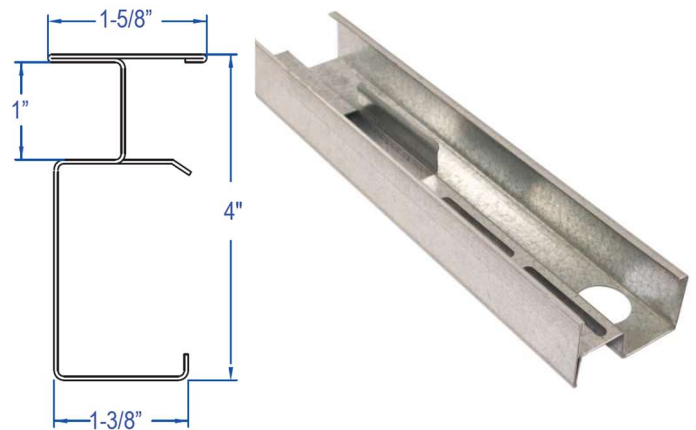
SECTION PROPERTIES

Gross Section Properties:

Cross Section Area (**A**): 0.267 in²
 Member Weight: 1.02 pounds per foot
 Moment of Inertia, strong axis (**I_x**): 0.687 in⁴
 Section Modulus "C" flange (**S_{xc}**): 0.3410 in³
 Section Modulus "T" flange (**S_{xt}**): 0.3800 in³

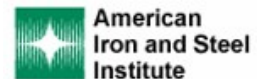
CODES & STANDARDS

Super Stud products comply with the applicable provisions of the following:
 International Building Code (IBC) 2006 - 2015
 Sheet Steel: ASTM A1003 & ASTM A653
 Galvanized Coating: ASTM A653
 Members & Tolerances: ASTM C645
 Meets ASTM C754 when installed properly in structure



COMPOSITE LIMITING HEIGHTS (feet – inches)

	Deflection Limit	Uniform Load in pounds per square foot (psf,) limiting heights in feet – inches ¹ .							
		1-hour assemblies				2- and 3-hour assemblies			
		5 psf	7.5 psf	10 psf	15 psf	5 psf	7.5 psf	10 psf	15 psf
400CTSTUD20	L/120	21' 8"	18' 11"	17' 2"	15' 0"	23' 8"	20' 8"	18' 9"	15' 6"
	L/180	18' 11"	16' 6"	15' 0"	13' 1"	20' 8"	18' 1"	16' 5"	14' 4"
	L/240	17' 2"	15' 0"	13' 8"	11' 11"	18' 9"	16' 5"	14' 11"	13' 0"
	L/360	15' 0"	13' 1"	11' 11"	10' 5"	16' 5"	14' 4"	13' 0"	11' 5"



¹ Limiting heights are based on Warnock Hersey test reference WHI-495-TRL-0206/0225, issued August 4, 1995. Values based on deflection limits with adjustment to conform to a minimum safety factor of 1.5 for ultimate ending strength and end reaction.

The Super Stud Building Products Family of Companies

