

Product Category: 05 41 00 - Structural Framing Product Name: 1200S200-54

#### Important Properties Notes:

- Calculated properties are based on AISI S100-12 with S2-10 Supplement, North American Specification for Design of Cold-Formed Steel Structural Members.
- The centerline bend radius is based on inside corner radii shown in thickness chart.
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A7.2.
- Tabulated gross properties are based on full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- For the steels that have both 33 and 50 ksi listing, if the design is based on 50 ksi, the 50 ksi steel needs to be specified. (ex. 3.625 S137 16-50 (50 ksi))

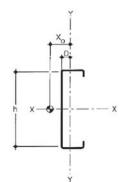
G60 12 in 2 in 0.0566 in 54 mils or 16G

50 ksi 3.241 lb/ft

# **Properties**

# 1200S200-54 Properties

Finish:
Web Depth
Flange Width
Design Thickness
Thickness
Yield stress, Fy
Weight



#### www.studsunlimited.com

### Project Information

Name: Address:

### **Contractor Information**

Name: Contact: Phone: Fax:

# **Architect Information**

Name: Contact: Phone: Fax:

#### **Distributor/Rep Information**

Name: Contact: Phone: Web/Email:

# 1200S200-54 Section Properties

#### Gross Section Properties

Cross sectional area (A)	0.953 in <sup>2</sup>
Moment of inertia (lx)	17.668 in <sup>4</sup>
Section Modulus (Sx)	2.945 in <sup>3</sup>
Radius of gyration (Rx)	4.307 in
Gross moment of inertia (ly)	0.394 in <sup>4</sup>
Gross Radius of gyration (Ry)	) 0.643 in

## **Effective Section Properties**

1 <sup>4</sup>
k
k
5

## **Torsional Properties**

1.017 in <sup>4</sup>
11.550 in <sup>6</sup>
-1.032 in
0.681 in
4.475 in
0.947
39.0 in



#### Product Category: 05 41 00 - Structural Framing Product Name: 1200S200-54

# Limiting Heights Properties

#### Limiting Wall Heights – Curtain Wall 1-Span

Spacing	5psf			15psf			20psf			25psf		
(inches)	L/120	L/240	L/360	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
12												
16												
24												

Spacing	30psf			35psf			40psf			50psf		
(inches)	L/240	L/360	L/600									
12												
16												
24			8' 0"									

#### Additional Specification Information

Studs Unlimited is an SFIA member. Studs Unlimited acts in accordance with the product and quality standards required by the SFIA program.

Studs Unlimited meets or exceeds ASTM C955, A653, and A1003.

#### LEED Specification Information

Materials & Resources Credit 2: Construction Waste Management – Studs Unlimited Steel Framing Products are formed from steel and are 100% recyclable. (1 point)

Materials & Resources Credit 4: Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, North American steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Versions 2.2 and 2009:

**Credit 4.1 (1 point)** Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 10% (based on cost) of the total value of the materials in the project.

**Credit 4.2 (1 point)** Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of pre-consumer content constitutes at least 20% of the total value of the materials in the project.

Materials & Resources Credit 5: Regional Materials - Contact Studs Unlimited directly for information at bjpowell@studsunlimited.com. Studs Unlimited is located in Oklahoma City, Oklahoma. (1 point)