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Steel Framing and Metal Lath

"S" - NON-STRUCTURAL PUNCHED "C" STUDS, 1 1/4" FLANGE, 27 MIL (22 GA)

Geometric Properties

"S" studs are fabricated in various standard widths, from 27 mil thick galvanized steel in standard G40 coating. G60 is available upon special request. The flange size is 1 1/4" with a return of .1875"

Steel Thickness

Mil thickness	Design Thickness (in.) ¹	Minimum Thickness (in.) ²
27	0.0283 (0.72 mm)	0.0269 (0.68 mm)

1) Uncoated Steel Thickness. Thickness is for carbon sheet steel
2) Minimum Thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site, based on Section A3.4 of the 2001 AISI specification with 2004 AISI supplement.

Color Code (painted on ends)

27 mil: Black

ASTM & Code Standards

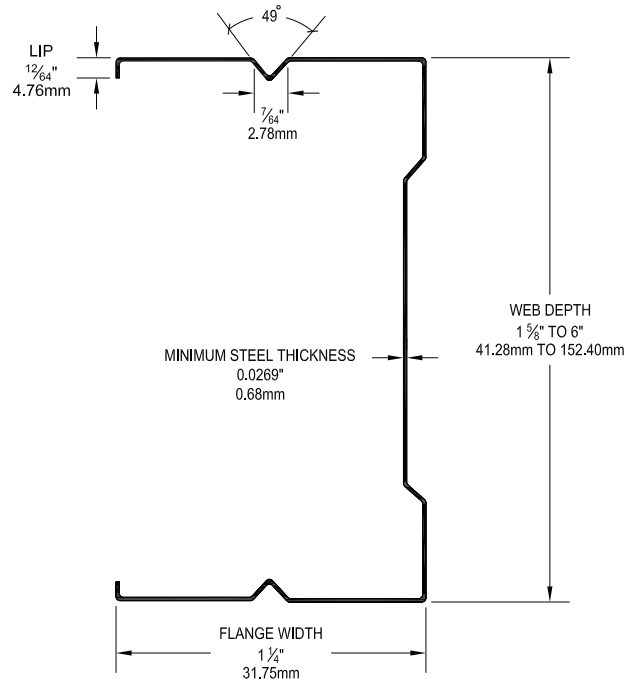
27 mil framing members meet or exceed the following standards:

- ASTM C645, A653/A653M, A924/A924M, & A1003/A1003M
- 2006 IBC, 2007 CBC and 2008 LABC
- 2001 AISI NASPEC with 2004 supplement
- For installation and storage refer to ASTM C754

LEED Points and Recycled Content

By using CEMCO steel framing products, your project can contribute to earning points for:

- LEED MR 2.1 & 2.2 - Construction Waste Management: up to 2 points.
- LEED MR 4.1 & 4.2 - Recycled Content: up to 2 points.
- LEED MR 5.1 & 5.2 - Regional Proximity to project site.



CEMCO cold-formed steel framing products contain 30% to 35% recycled steel.

- Total Recycled Content: 32.7%
- Post Consumer: 25.5%
- Pre-Consumer: 6.8%



Technical Services

Contact Technical Services at 800.416.2278 for specific information or email to techservices@cemcsteel.com

NON-STRUCTURAL STUD PHYSICAL PROPERTIES

2004 Specification

Member	Design Thickness (in)	Gross							Effective Properties 33 ksi					Torsional Properties					
		Area	Weight	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _a	V _{ag}	V _{anet}	J _x 1000	C _w	X _o	m	R _o	Beta
		(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	
162S125-27	0.0283	0.1196	0.4069	0.056	0.069	0.6821	0.0234	0.4425	0.0548	0.0529	87.2	494	106	0.0319	0.0132	-1.017	0.587	1.302	0.390
250S125-27	0.0283	0.1444	0.4912	0.147	0.118	1.0093	0.0272	0.4342	0.1446	0.0974	160.4	685	344	0.0385	0.0338	-0.893	0.536	1.416	0.602
362S125-27	0.0283	0.1762	0.5995	0.347	0.192	1.4036	0.0305	0.4163	0.3419	0.1351	222.5	592	370	0.0470	0.0785	-0.776	0.484	1.657	0.781
400S125-27	0.0283	0.1868	0.6357	0.438	0.219	1.5306	0.0314	0.4099	0.4313	0.1505	247.9	533	398	0.0499	0.0984	-0.744	0.469	1.751	0.819
600S125-27 ¹	0.0283	0.2434	0.8282	1.160	0.387	2.1832	0.0347	0.3775	1.1100	0.2706	445.6	349	349	0.0650	0.2505	-0.614	0.402	2.299	0.929

NOTES: 1. web height to thickness ratio exceeds 200, web stiffeners are required at all support points and concentrated loads, suitability of web holes must be evaluated independently.

ALLOWABLE WALL HEIGHTS FOR NON STRUCTURAL STUDS- 27 MIL *

Section	Spacing		5psf			7.5psf			10psf		
	F _y (ksi)	(in) oc	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
600S125-27 ¹	33	12	11' 3"	8' 11"	7' 9"	9' 10"	8' 9"	7' 8"	8' 6"	8' 0"	6' 11"
162S125-27	33	16	10' 2"	8' 1"	7' 9"	9' 10"	8' 9"	7' 8"	8' 6"	8' 0"	6' 11"
250S125-27	33	12	15' 7"	12' 4"	10' 9"	12' 8"	12' 2"	10' 7"	11' 0"	11' 0"	9' 7"
362S125-27	33	12	19' 1"	16' 5"	14' 4"	15' 7"	15' 7"	14' 2"	13' 6"	13' 6"	9' 7"
400S125-27	33	12	20' 2"	17' 9"	15' 6"	16' 6"	16' 6"	15' 3"	14' 3"	14' 3"	13' 10"
600S125-27	33	12	24' 10" e	24' 4" e	21' 3" e	20' 3" e	20' 3" e	20' 3" e	17' 6" e	17' 6" e	17' 6" e
600S125-27	33	16	21' 6" e	22' 6" e	19' 4" e	17' 6" e	17' 6" e	17' 6" e	15' 2" e	15' 2" e	15' 2" e
600S125-27	33	16	17' 6" e	17' 6" e	16' 11" e	14' 4" e	14' 4" e	14' 4" e	12' 5" e	12' 5" e	12' 5" e

NOTES: 1. "e" Requires web stiffeners at end supports, 2. Strength Multiplier = 1.0, 3. Deflection Multiplier = 1.0, 4. Lateral loads have been multiplied by 0.7 for deflection determination for pressures above 5 psf, 5. Studs considered unpunched for web crippling and shear, 6. Limiting heights based on continuous support of each flange over a full length of the stud, 7. 1 Span, *Data based on 2007 North American Specification