



STEEL FRAMING STUDS

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Product Data Sheet

U.S. Patent # US7866112
U.S. Patent # US7743578
U.S. Patent # US8424266

Product category: R-stud 54 mil Load Bearing Stud
Product name: 600RS162-54 50Ksi G60
6.000" R-stud

Coating: G90
Color coding: Green

Geometric Properties

Table with 4 columns: Property, Value, Property, Value. Includes Web depth, Flange width, Stiffening lip, Design thickness, Yield stress, Weight, Web opening length, Web opening width, Minimum thickness.

Gross Section Properties of Full Section, Strong Axis

Table with 2 columns: Property, Value. Includes Cross sectional area, Moment of inertia, Radius of gyration, Max bending moment, Allowable shear force in web.

Tension/Compression Properties

Table with 2 columns: Property, Value. Includes Warping constant, Distance from shear center to neutral axis, Radii of gyration, Torsional flexural constant, Compression Pao, Tension Tao, Unbraced Length, Fully Braced Strength.

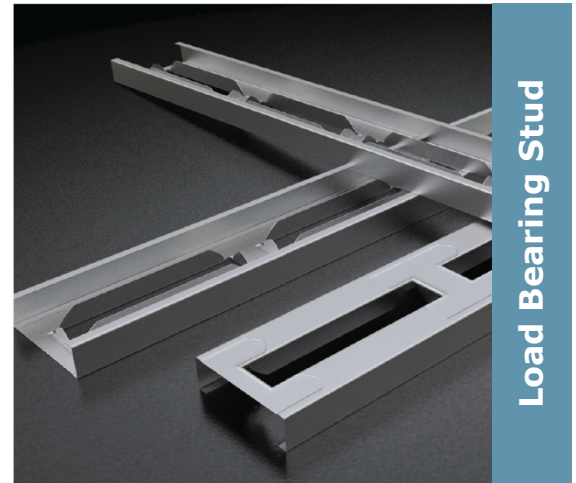
Notes:

- Calculated properties are based on Supported specifications.
Effective properties herein incorporate the increased strength from cold working of the steel while forming.
Tabulated properties, including torsional properties, are based on the added cross section properties of the web openings and indents as R-studs do not have punch-outs.
Maxo Allowable moment includes cold work of forming.
Maxo Allowable moment is taken as the maximum value based on local or distortional buckling.
For deflection calculations use the moment of inertia.
Web opening is every 12 inches and are 9-13/16 inches long with flanges opening out of web. Corners of the web openings are enhanced with flared corner reliefs.

Sustainability: R-stud sources its steel coils from USS-POSCO in Pittsburg, California for rolling in our manufacturing facility in Donald, Oregon. Our coils contain approximately 34.2% recycled steel. Approximately 19.8% is Post-consumer content, while Pre-consumer content is approximately 14.4%. Steel is one of the most sustainable building materials in the world. It is recycled, durable, safe, zinc-coated, dimensionally stable and strong, as well as not susceptible to rot, termites, or mold.

Supported Documentation

- 2016 AISI - ASD, LRFD, and LSD
2012 AISI - ASD, LRFD, and LSD
2010 AISI - ASD, LRFD, and LSD
2007 AISI - ASD, LRFD, and LSD
2004 AISI - ASD, LRFD, and LSD
2001 AISI - ASD, LRFD, and LSD
1999 AISI - ASD and LRFD & 2002 ASCE - ASD and LRFD (stainless steel)



Web openings (not punch-outs) formed from web every 12 in. with Stamping at bridge every 12 in.

ASTM & Code Standards:

- ICC-NTA ESR
IBC 2012 Compliant
AISI S-100 & S220-11
ASTM E119, E72, E90
ASTM AC86, C645, & C745
UL 263

Project Information, Contractor Information, Architect Information form with fields for Name, Address, Contact, Phone, Fax.



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Product category: R-stud Drywall Stud
Product name: 600RS200-54 50Ksi G60
6" 2.000" R-stud

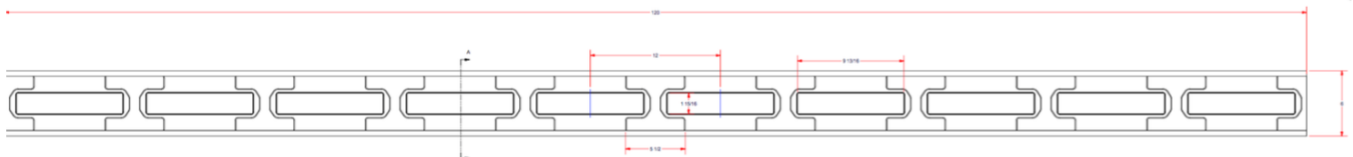
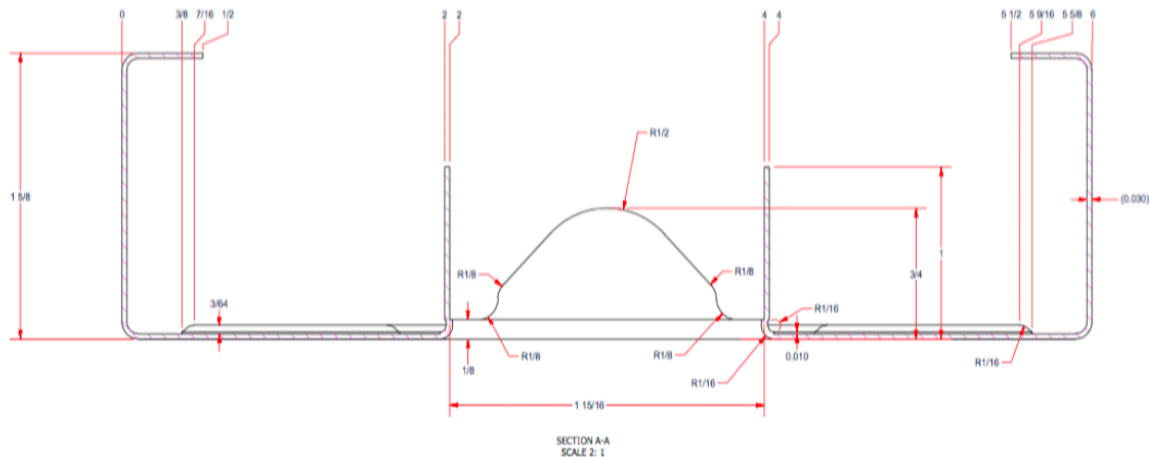
Limiting Wall Heights

Spacing (inches)	5 psf			7.5 psf			10 psf		
	L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
-	-	-	-	-	-	-	-	-	-
16	40'11"	36'5"	33'2"	33'6"	29'3"	26'6"	28'6"	25'7"	22'4"
24	36'3"	32'9"	29'1"	29'7"	25'7"	22'4"	26'5"	22'6"	19'6"

Table Notes:

- Allowable composite limiting heights were determined from AC86-2012 testing by Intertek Testing / Architectural Testing, Inc.
- The composite limiting heights tables provided above are based on a single layer of Type X gypsum board from the following manufacturers, American, CertainTeed, Georgia Pacific, National, PABCO, and USG.
- They gypsum is to be applied full height in the vertical orientation to each stud flange and installed in accordance with ASTM C754-2004 using a minimum of No. 6 Type S Drywall spaced as listed below:
- Screws spaced a minimum of 16 inches on-center to framing members spaced at 12 or 16 inches on-center.
- Screws spaced a minimum of 12 inches on-center to framing members spaced at 24 inches on-center.
- No fasteners are required for attaching the stud to the track except as detailed in ASTM C754-2008.

Profile



Project Information

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

Name:
Contact:
Phone:
Fax: