

Product category: R-stud 30 mil drywall stud
Product name: 600RS162-30 50Ksi G60
6.000" R-stud

Coating: G60
Color coding: White

Geometric Properties

Web depth	6.000-in	Weight	0.9984-lb/ft*
Flange width	1.625-in	Web opening length	9-13/16-in
Stiffening lip	0.500-in	Web opening width	2-3/16-in
Design thickness	0.030-in	Minimum thickness	0.0296
Yield stress, Fy	50 Ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A*)	0.29365-in ²
Moment of inertia (Ix*)	1.6016-in ⁴
Radius of gyration (Rx, r1*)	2.3354-in
Moment of inertia (Iy*)	0.0899-in ⁴
Radius of gyration (Ry, r2*)	0.5534-in
Max bending moment Ix-(Maxo*)	13.867-k-in
Max bending moment Iy-(Maxo*)	2.345-k-in
Allowable shear force in web (Vax*)	1.5696-k

Tension/Compression Properties

Warping constant (Cw*)	0.038983-in ⁶
Distance from shear center to neutral axis (Xo*)	-0.8892-in
Radii of gyration (Ro*)	2.5595-in
Torsional flexural constant (Beta)	FEA-in ⁴
Compression Pao(max*)	6.3574-k
Tension Tao (Ta*)	9.0823-k
Unbraced Length (Lu)	full/no bracing
Fully Braced Strength (CFS)	
*CFS result	

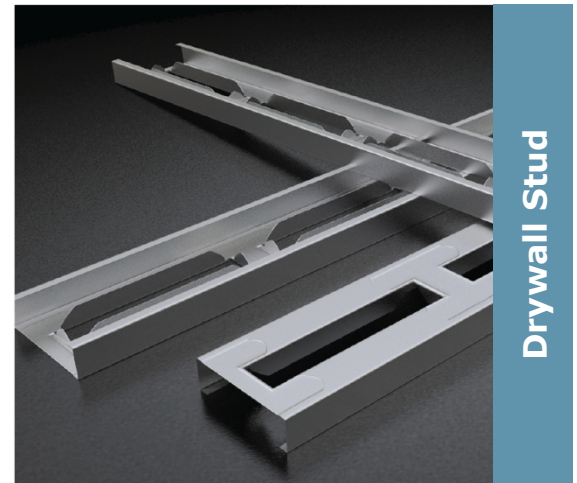
Notes:

- Calculated properties are based on Supported specifications.
- Effective properties herein incorporate the increased strength from cold working of the steel while forming. We only use minimum 50Ksi coils.
- 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 content, recyclable, durable, safe, zinc coated, dimensionally stable and strong, as well as not susceptible to rot, termites, or mold.

Supported specifications:

- 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 1999 AISI - ASD and LRFD



Drywall Stud

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

ASTM & Code Standards:

- ✓ ATI/Intertek CCRR 1073
- ✓ IBC 2012 Compliant
- ✓ AISI S-100 & S220-11
- ✓ ASTM E119, E72, E90
- ✓ ASTM AC86, C645, & C745
- ✓ U.S. Patent Numbers:
US7866112
US7743578
US8424266

Project Information

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Contractor Information

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Architect Information

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Product category: Non load bearing drywall
Product name: 600RS162-30
6" x 1-5/8" R-stud

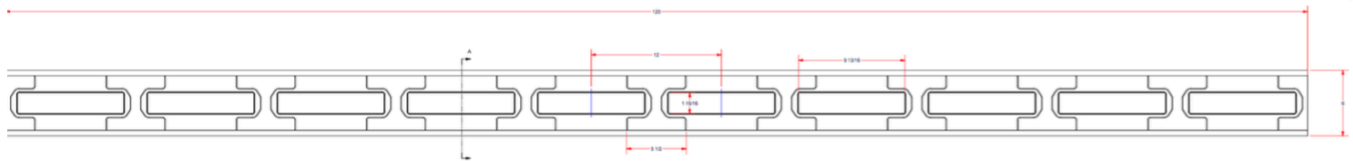
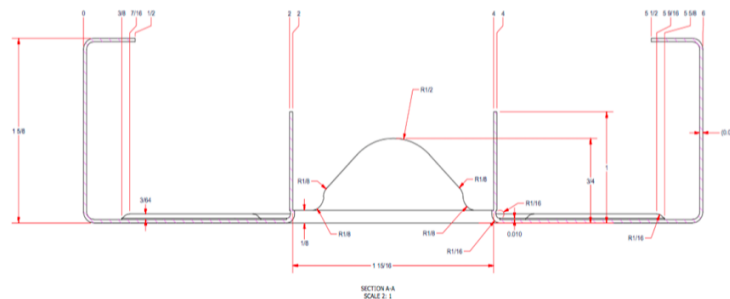
600RS162-30 50Ksi G60
Limiting Wall Heights.

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
12	45'4"	36'1"	31'4"	39'7"	31'5"	27'5"	35'11"	28'7"	24'11"
16	41'2"	32'7"	28'9"	35'11"	28'8"	24'10"	32'8"	25'11"	22'8"
24	35'11"	28'10"	24'11"	31'6"	25'1"	21'9"	28'9"	22'7"	19'11"

Composite 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.
- The 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

600RS162



Project Information

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Contractor Information

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Architect Information

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Product Submittal Sheet

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