



Corporate Address
 16869 SW 65th Ave
 Lake Oswego, OR 97035
 503-462-3990

Manufacturing Facility
 10590 Donald Rd. NE
 Donald, OR 97020

STEEL FRAMING STUDS

INTERIOR NON-LOAD BEARING R-STUDS

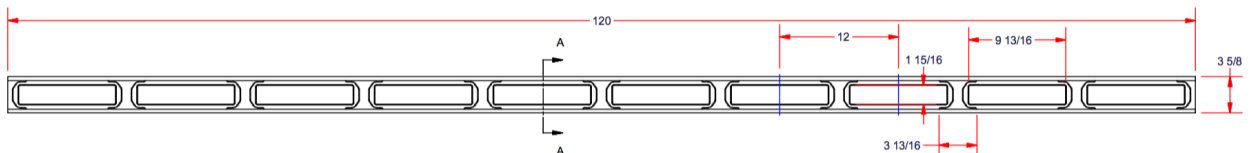
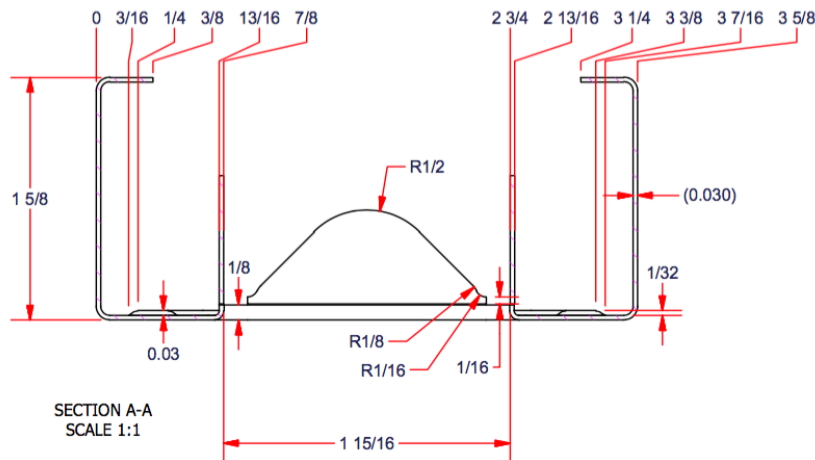
Geometric Properties of R-studs

R-studs are manufactured in 362, 400 and 600 widths from G60 hot-dipped galvanized steel and in 50ksi. Our steel coils are sourced from USS-POSCO in Pittsburg, California.
www.usposco.com

Steel Thickness

Model	Minimum Thickness	Yield (Ksi)	Web Sizes	Flange	Return Lip
18	0.0179	50	362, 400, 600	125, 162	.22, .375
30	0.0296	50	362, 400, 600	125, 162	.22, .375
33	0.0346	50	362, 400, 600	125, 162	0.375

R-stud steel studs contain 30% to 35% recycled steel
 Total Recycled Content: 35%, Pre-Consumer Content 14.4%, Post Consumer 19.8%

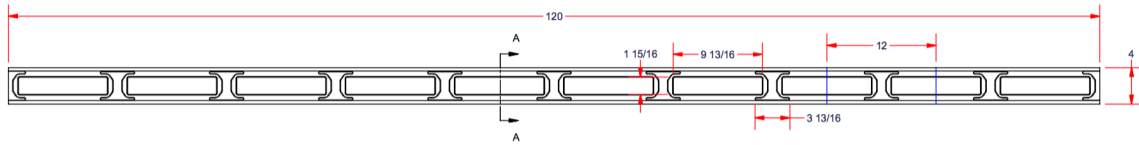
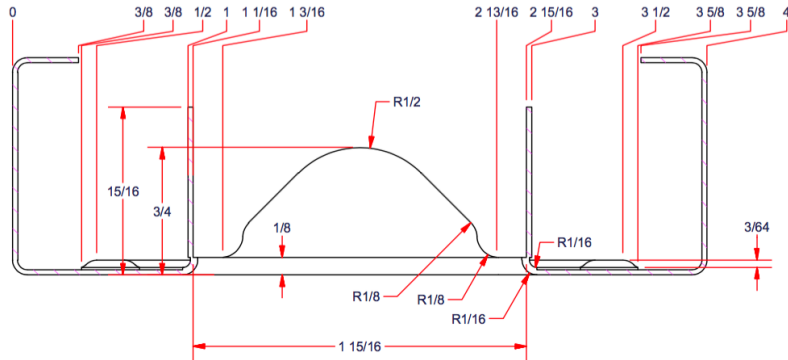




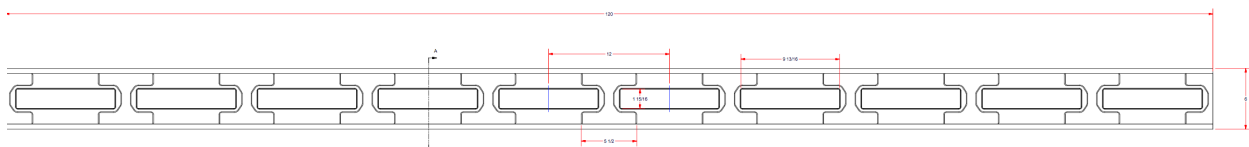
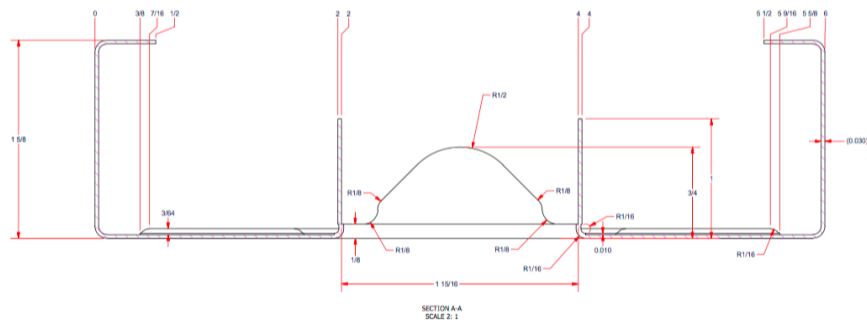
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400S162



600S162





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Section	FY (Ksi) Minimum	Spacing (in) OC	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
362S125 - 18	50	16	17' 6"	15' 4"	13' 11"	12' 2"	10' 7"	9' 8"	10' 7"	9' 3"	8' 5"
		24	15' 4"	13' 5"	12' 2"	12' 2"	10' 7"	9' 8"	10' 7"	9' 3"	8' 5"
362S162 - 18	50	16	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	19' 5"	15' 5"	13' 6"
		24	21' 5"	17'	14' 10"	18' 8"	14' 10"	12' 11"	17' 0"	13' 6"	11' 9"
362S125 - 30	50	16	22' 6"	17' 10"	15' 7"	19' 8"	15' 7"	13' 7"	17' 10"	14' 2"	12' 5"
		24	19' 7"	15' 6"	13' 7"	17' 2"	13' 7"	11' 11"	15' 7"	12' 5"	10' 8"
362S162 - 30	50	16	22' 6"	17' 10"	15' 7"	19' 8"	15' 7"	13' 7"	17' 10"	14' 2"	12' 5"
		24	19' 8"	15' 7"	13' 7"	17' 2"	15' 0"	13' 7"	15' 7"	12' 5"	10' 10"
362S162 - 43	50	16	24' 6"	19' 5"	17' 0"	21' 5"	17' 0"	14' 10"	19' 5"	15' 5"	13' 6"
		24	21' 4"	16' 11"	14' 10"	18' 8"	14' 10"	12' 11"	16' 11"	13' 6"	11' 9"
400S162 - 18	50	16	19' 10"	15' 9"	13' 9"	17' 4"	13' 9"	12' 0"	15' 9"	12' 6"	10' 11"
		24	17' 4"	13' 9"	12' 0"	15' 2"	12' 0"	10' 6"	13' 9"	10' 11"	9' 7"
400S162 - 30	50	16	24' 2"	19' 3"	16' 9"	21' 2"	16' 9"	14' 8"	19' 3"	15' 3"	13' 4"
		24	21' 2"	16' 9"	14' 8"	18' 6"	14' 8"	12' 10"	16' 9"	13' 4"	11' 8"
400S162 - 43	50	16	26' 4"	20' 11"	18' 3"	23' 0"	18' 3"	16' 0"	20' 11"	16' 7"	14' 6"
		24	23' 0"	18' 3"	16'	20' 1"	16' 0"	13' 11"	18' 3"	14' 6"	12' 8"
400S162 - 54	50	16	28' 3"	22' 5"	19' 7"	24' 8"	19' 7"	17' 1"	22' 5"	17' 10"	15' 7"
		24	24' 8"	19' 7"	17' 1"	21' 7"	17' 1"	14' 11"	19' 7"	15' 7"	13' 7"
600S162 - 18	50	16	26' 11"	21' 5"	18' 8"	23' 6"	18' 8"	16' 4"	21' 5"	17' 0"	14' 10"
		24	23' 6"	18' 8"	16' 4"	20' 7"	16' 4"	14' 3"	18' 8"	14' 10"	13' 0"
600S162 - 30	50	16	32' 10"	26' 1"	22' 10"	28' 9"	22' 10"	19' 11"	26' 1"	20' 9"	18' 1"
		24	28' 9"	22' 10"	19' 11"	25' 1"	19' 11"	17' 5"	22' 10"	18' 1"	15' 10"
600S162 - 43	50	16	35' 10"	28' 5"	24' 10"	31' 3"	24' 10"	21' 8"	28' 5"	22' 7"	19' 9"
		24	31' 3"	24' 10"	21' 8"	27' 4"	21' 8"	18' 11"	24' 10"	19' 8"	17' 3"
600S162 - 54	50	16	38' 5"	30' 6"	26' 8"	33' 7"	26' 8"	23' 3"	30' 6"	24' 2"	21' 2"
		24	33' 7"	26' 8"	23' 3"	29' 4"	23' 3"	20' 4"	26' 8"	21' 2"	18' 6"

Fire test for interior R-studs: Report No. 101813281COQ-001

6 Conclusion

Intertek Testing Services NA, Inc. (Intertek) has conducted testing for Sage Manufacturing LLC using their 3-5/8 inch "R-Stud" product as part of a drywall partition and evaluate fire resistance. Testing was conducted in accordance with ASTM E119-12a Standard Test Methods for Fire Tests of Building Construction and Materials July 15 2012 Edition.

The initial Fire test and Hose Stream test (as per ASTM E110-12a Section 7.6.3 Optional Program) was conducted on March 4th, 2015 and was completed the same day. The fire test was repeated on March 10th 2015 on a duplicate test specimen (in accordance with ASTM E119-12a Section 7.6.2.1) to qualify the specimen to the hose stream requirements of the standard.

The drywall partition has met the conditions of acceptance of AETM E119-12a as indicated below:

FIRE RESISTANCE RATING 60 MINUTES
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The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.