

4566 RIDGE DRIVE NE  
SALEM, OR 97301

SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf (3 equal spans) For various fastener spacings (i.e. span values)																					
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load						Outward Load									
				$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	16	80	1.10	0.0179	0.0173	0.0272	0.0159	0.0165	0.0357	228.0	158.7	116.6	89.3	70.5	57.1	17.6	14.3	174.1	120.9	88.8	68.0	53.7	43.5	13.4	10.9
24	16	50	1.40	0.0278	0.0267	0.0436	0.0241	0.0252	0.0541	216.4	150.3	110.4	84.5	66.8	54.1	16.7	13.5	174.4	121.1	89.0	68.1	53.8	43.6	13.5	10.9
22	16	50	1.74	0.0353	0.0329	0.0583	0.0271	0.0295	0.0635	254.0	176.4	129.6	99.2	78.4	63.5	19.6	15.9	233.2	161.9	119.0	91.1	72.0	58.3	18.0	14.6
20	16	33	2.10	0.0496	0.0470	0.0847	0.0406	0.0432	0.0817	217.9	151.3	111.2	85.1	67.2	54.5	16.8	13.6	225.9	156.9	115.2	88.2	69.7	56.5	17.4	14.1

- Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member.  
 $I_{xx}$  and  $S_{xx}$  are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection is not considered.
- Allowable loads do not include a 1/3 stress increase for wind.

SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf (3 equal spans) For various fastener spacings (i.e. span values)																					
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load						Outward Load									
				$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	16	80	1.10	0.0179	0.0173	0.0272	0.0159	0.0165	0.0357	228.5	158.7	106.3	71.2	50.0	36.4	6.3	4.6	174.1	120.9	88.8	67.9	47.7	34.8	6.0	4.3
24	16	50	1.40	0.0278	0.0267	0.0436	0.0241	0.0252	0.0541	216.4	150.3	110.4	84.5	66.8	54.1	9.64	7.03	174.4	121.1	89.0	68.1	53.8	43.6	9.1	6.64
22	16	50	1.74	0.0353	0.0329	0.0583	0.0271	0.0295	0.0635	254.0	176.4	129.6	99.2	78.4	63.5	11.9	8.66	233.2	161.9	119.0	91.1	72.0	58.3	10.7	7.8
20	16	33	2.10	0.0496	0.0470	0.0847	0.0406	0.0432	0.0817	217.9	151.3	111.2	85.1	67.2	54.5	16.8	12.4	225.9	156.9	115.2	88.2	69.7	56.5	15.6	11.4

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- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of  $L/120$  of span.
- Allowable loads do not include a 1/3 stress increase for wind.

SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf (3 equal spans) For various fastener spacings (i.e. span values)																					
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load						Outward Load									
				$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	$I_{xx}$ in <sup>4</sup> /ft.	$I_{xx}$ (eff) in <sup>4</sup> /ft.	$S_{xx}$ in <sup>3</sup> /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	16	80	1.10	0.0179	0.0173	0.0272	0.0159	0.0165	0.0357	194.4	112.5	70.8	47.4	33.3	24.3	4.2	3.0	174.1	107.3	67.6	45.3	31.8	23.2	4.0	2.9
24	16	50	1.40	0.0278	0.0267	0.0436	0.0241	0.0252	0.0541	216.4	150.3	109.3	73.2	51.4	37.5	6.43	4.69	174.4	121.1	89.0	68.1	48.6	35.4	6.1	4.42
22	16	50	1.74	0.0353	0.0329	0.0583	0.0271	0.0295	0.0635	254.0	176.4	129.6	90.2	63.4	46.2	7.9	5.8	233.2	161.9	119.0	80.9	56.8	41.4	7.1	5.2
20	16	33	2.10	0.0496	0.0470	0.0847	0.0406	0.0432	0.0817	217.9	151.3	111.2	85.1	67.2	54.5	11.3	8.25	225.9	156.9	115.2	88.2	69.7	56.5	10.4	7.6

- Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member.  
 $I_{xx}$  and  $S_{xx}$  are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of  $L/180$  of span.
- Allowable loads do not include a 1/3 stress increase for wind.

