



BR-36 Roof & Wall Panel

4566 RIDGE DRIVE NE
SALEM, OR 97301

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf 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 ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	36	80	0.96	0.0707	0.0662	0.0613	0.0553	0.0598	0.0639	392.3	272.4	200.2	153.3	121.1	99.1	30.3	24.5	409.0	284.0	208.7	159.8	126.2	102.2	31.6	25.6
24	36	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	404.0	280.6	206.1	157.8	124.7	101.0	31.2	25.3	472.0	327.8	240.8	184.4	145.7	118.0	36.4	29.5
22	36	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	520.0	361.1	265.3	203.1	160.5	130.0	40.1	32.5	592.0	411.1	302.0	231.3	182.7	148.0	45.7	37.0
20	36	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	468.0	325.0	238.8	182.8	144.4	117.0	36.1	29.3	499.2	346.7	254.7	195.0	154.1	124.8	38.5	31.2

- 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 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 ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	36	80	0.96	0.0707	0.0662	0.0613	0.0553	0.0598	0.0639	392.3	272.4	200.2	153.3	121.1	98.1	23.9	17.4	409.0	284.0	208.7	159.8	126.2	102.2	21.6	15.8
24	36	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	404.0	280.6	206.1	157.8	124.7	101.0	31.2	25.3	472.0	327.8	240.8	184.4	145.7	118.0	33.8	24.7
22	36	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	520.0	361.1	265.3	203.1	160.5	130.0	40.1	32.5	592.0	411.1	302.0	231.3	182.7	148.0	43.0	31.3
20	36	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	468.0	325.0	238.8	182.8	144.4	117.0	36.1	29.3	499.2	346.7	254.7	195.0	154.1	124.8	38.5	31.2

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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 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 ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'	2.5'	3'	3.5'	4'	4.5'	5'	9'	10'
26	36	80	0.96	0.0707	0.0662	0.0613	0.0553	0.0598	0.0639	392.3	272.4	200.2	153.3	121.1	93.0	15.9	11.6	409.0	284.0	208.7	159.8	115.2	84.0	14.4	10.5
24	36	50	1.18	0.1170	0.1070	0.1010	0.0840	0.0936	0.1180	404.0	280.6	206.1	157.8	124.7	101.0	25.8	18.8	472.0	327.8	240.8	184.4	145.7	118.0	22.5	16.4
22	36	50	1.46	0.1470	0.1350	0.1300	0.1070	0.1190	0.1480	520.0	361.1	265.3	203.1	160.5	130.0	32.5	23.7	592.0	411.1	302.0	231.3	182.7	148.0	28.7	20.9
20	36	33	1.76	0.1970	0.1830	0.1950	0.1470	0.1620	0.2080	468.0	325.0	238.8	182.8	144.4	117.0	36.1	29.3	499.2	346.7	254.7	195.0	154.1	124.8	38.5	28.4

- 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.

