



HR-34 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	34	80	0.96	0.0702	0.0694	0.0699	0.0675	0.0683	0.0830	447.4	310.7	228.2	174.8	138.1	111.8	34.5	28.0	531.2	368.9	271.0	207.5	164.0	132.8	41.0	33.2
24	34	50	1.18	0.1060	0.1067	0.1233	0.1085	0.1078	0.1337	493.2	342.5	251.6	192.6	152.2	123.3	38.1	30.8	534.8	371.4	272.9	208.9	165.1	133.7	41.3	33.4
22	34	50	1.46	0.1307	0.1317	0.1539	0.1343	0.1333	0.1681	615.6	427.5	314.1	240.5	190.0	153.9	47.5	38.5	672.4	466.9	343.1	262.7	207.5	168.1	51.9	42.0
20	34	33	1.76	0.1767	0.1777	0.2140	0.1802	0.1792	0.2200	513.6	356.7	262.0	200.6	158.5	128.4	39.6	31.2	513.6	356.7	262.0	200.6	158.5	128.4	39.6	32.1

- 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 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	34	80	0.96	0.0702	0.0694	0.0699	0.0675	0.0683	0.0830	447.4	310.7	228.2	174.8	138.1	111.8	25.1	18.3	531.2	368.9	271.0	207.5	164.0	132.8	24.7	18.0
24	34	50	1.18	0.1060	0.1067	0.1233	0.1085	0.1078	0.1337	493.2	342.5	251.6	192.7	152.2	123.3	38.1	28.1	534.8	371.4	272.9	208.9	165.1	133.7	38.9	28.4
22	34	50	1.46	0.1307	0.1317	0.1539	0.1343	0.1333	0.1681	615.6	427.5	314.1	240.5	190.0	153.9	47.5	34.7	672.4	466.9	343.1	262.7	207.5	168.1	48.2	35.1
20	34	33	1.76	0.1767	0.1777	0.2140	0.1802	0.1792	0.2200	513.6	356.7	262.0	200.6	158.5	128.4	39.6	32.1	528.0	366.7	269.4	206.3	163.0	132.0	40.7	33.0

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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	34	80	0.96	0.0702	0.0694	0.0699	0.0675	0.0683	0.0830	447.4	310.7	228.2	174.8	134.0	97.5	16.7	12.2	531.2	368.9	271.0	187.3	131.6	95.9	16.5	12.0
24	34	50	1.18	0.1060	0.1067	0.1233	0.1085	0.1078	0.1337	493.2	342.5	251.6	192.7	152.2	123.3	25.7	18.7	534.8	371.4	272.9	208.9	165.1	133.7	26.0	18.9
22	34	50	1.46	0.1307	0.1317	0.1539	0.1343	0.1333	0.1681	615.6	427.5	314.1	240.5	190.0	153.9	31.7	23.1	672.4	466.9	343.1	262.7	207.5	168.1	32.1	23.4
20	34	33	1.76	0.1767	0.1777	0.2140	0.1802	0.1792	0.2200	513.6	356.7	262.0	200.6	158.5	128.4	39.6	31.2	528.0	366.7	269.4	206.3	162.7	132.0	40.7	31.5

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- 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.

