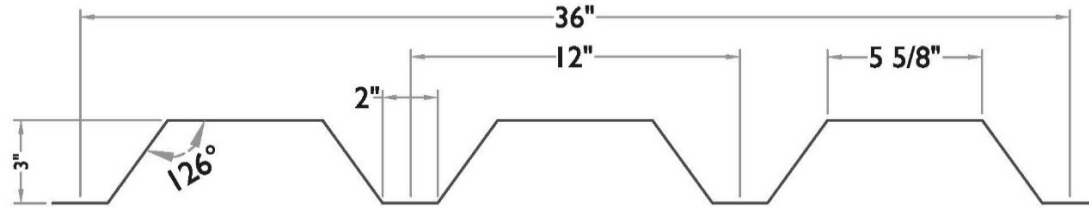




HIGH-RIB PANEL WP3036



180 Deflection

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (single span) - for wall applications only 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	875.0	388.9	218.8	140.0	95.1	59.9	40.1	28.2	835.0	371.1	208.8	133.6	92.8	64.0	42.9	30.1
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1160.0	515.6	290.0	185.6	128.9	94.7	72.5	53.8	1150.0	511.1	287.5	184.0	127.8	93.9	71.9	56.8
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	1650.0	733.3	412.5	264.0	183.3	134.7	103.1	73.0	1655.0	735.6	413.8	264.8	183.9	135.1	103.4	79.3

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (two 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 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	875.0	388.9	218.8	140.0	97.2	71.4	54.7	43.2	835.0	371.1	208.8	133.6	92.8	68.2	52.2	41.2
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1160.0	515.6	290.0	185.6	128.9	94.7	72.5	57.3	1150.0	511.1	287.5	184.0	127.8	93.9	71.9	56.8
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	1650.0	733.3	412.5	264.0	183.3	134.7	103.1	81.5	1655.0	735.6	413.8	264.8	183.9	135.1	103.4	81.7

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (three 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 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	1093.8	486.1	273.4	175.0	121.5	89.3	68.4	54.0	1043.8	463.9	260.9	167.0	116.0	85.2	65.2	51.5
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1450.0	644.4	362.5	232.0	161.1	118.4	90.6	71.6	1437.5	638.9	359.4	230.0	159.7	117.4	89.8	71.0
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	2062.5	916.7	515.6	330.0	229.2	168.4	128.9	101.9	2068.8	919.4	517.2	331.0	229.9	168.9	129.3	102.2



HIGH-RIB PANEL WP3036

240 Deflection

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (single span) - for wall applications only 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	875.0	388.9	218.8	123.2	71.3	44.9	30.1	21.1	835.0	371.1	208.8	131.6	76.2	48.0	32.1	22.6
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1160.0	515.6	290.0	185.6	128.9	85.8	57.5	40.4	1150.0	511.1	287.5	184.0	127.8	93.1	62.4	43.8
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	1650.0	733.3	412.5	264.0	183.3	116.4	78.0	54.8	1655.0	735.6	413.8	264.8	183.9	126.3	84.6	59.4

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (two 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 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	875.0	388.9	218.8	140.0	97.2	71.4	54.7	43.2	835.0	371.1	208.8	133.6	92.8	68.2	52.2	41.2
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1160.0	515.6	290.0	185.6	128.9	94.7	72.5	57.3	1150.0	511.1	287.5	184.0	127.8	93.9	71.9	56.8
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	1650.0	733.3	412.5	264.0	183.3	134.7	103.1	81.5	1655.0	735.6	413.8	264.8	183.9	135.0	103.4	81.7

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf (three 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 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.	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'	2.0'	3.0'	4.0'	5.0'	6.0'	7.0'	8.0'	9.0'
24	36	50	1.29	0.3240	0.2350	0.1750	0.4010	0.2510	0.1670	1093.8	486.1	273.4	175.0	121.5	89.3	60.4	42.4	1043.8	463.9	260.9	167.0	116.0	85.2	64.5	45.3
22	36	50	1.53	0.4220	0.4490	0.2320	0.5140	0.4870	0.2300	1450.0	644.4	362.5	232.0	161.1	118.4	90.6	71.6	1437.5	638.9	359.4	230.0	159.7	117.4	89.8	71.0
20	36	50	1.87	0.5730	0.6090	0.3300	0.6970	0.6610	0.3310	2062.5	916.7	515.6	330.0	229.2	168.4	128.9	101.9	2068.8	919.4	517.2	331.0	229.9	168.9	129.3	102.2

NOTES:

- 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 or L/240 of span.
- Allowable loads do not include a 1/3 stress increase for wind.