



Contour Series™ C-5 Wall & Soffit Panel

4566 RIDGE DRIVE NE
SALEM, OR 97301
PHONE 503.581.8338

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.	S_{xx} in ³ /ft.	I_{xx} 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'
0.032"	12	19	0.52	0.3030	0.3492	0.3030	0.4408	350.9	243.7	179.0	137.1	108.3	87.7	27.1	21.9	365.0	253.5	186.2	142.6	112.7	91.3	28.2	22.8
0.040"	12	19	0.65	0.3700	0.4274	0.3030	0.5489	546.7	379.7	278.9	213.6	168.7	136.7	42.2	34.2	558.5	387.8	284.9	218.2	172.4	139.6	43.1	34.9

- Theoretical section properties have been calculated per the latest edition of the Aluminum Association's Design Manual.
 I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with the latest edition of the Aluminum Association's Design Manual 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.	S_{xx} in ³ /ft.	I_{xx} 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'
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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.	S_{xx} in ³ /ft.	I_{xx} 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'
0.032"	12	19	0.52	0.3030	0.3492	0.3030	0.4408	350.9	243.7	179.0	137.1	108.3	87.7	25.0	18.2	365.0	253.5	186.2	142.6	112.7	91.3	25.0	18.2
0.040"	12	19	0.65	0.3700	0.4274	0.3030	0.5489	546.7	379.7	278.9	213.6	168.7	136.7	30.5	22.2	558.5	387.8	284.9	218.2	172.4	139.6	30.5	22.2

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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 $L/180$ of span.
- Allowable loads do not include a 1/3 stress increase for wind.

