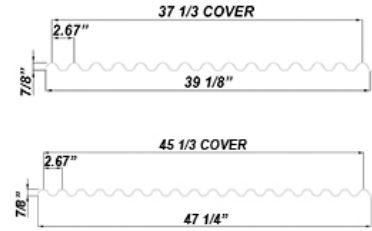


CORRUGATED METALS PRODUCTS: SINEWAVE (7/8 x 2.67) -

Galvanized / Cold-rolled & Aluminum Alloy

Section	Weight		Total Cross-Sectional Area	Allowable Stress	Top Flat in Compression			Bottom Flat in Compression		
	Sheet	Area			Moment of Inertia	Section Modulus	Allowable Moment	Moment of Inertia	Section Modulus	Allowable Moment
	lb/ft	lb/sf	A (in2)	Fa (psi)	I (in4/ft)	S (in3/ft)	Ma (lb-ft/ft)	I (in4/ft)	S (in3/ft)	Ma (lb-ft/ft)
26 Ga Sinewave	4.43	1.13	1.30	17964	0.031	0.035	52	0.031	0.035	52
24 Ga Sinewave	5.44	1.38	1.60	17964	0.038	0.042	64	0.038	0.042	64
22 Ga Sinewave	6.24	1.59	1.84	17964	0.044	0.049	73	0.044	0.049	73
20 Ga Sinewave	8.06	2.05	2.37	17964	0.057	0.062	93	0.057	0.062	93
18 Ga Sinewave	10.07	2.56	2.96	17964	0.071	0.077	115	0.071	0.077	115
16 Ga Sinewave	12.48	3.17	3.67	17964	0.088	0.094	141	0.088	0.094	141
0.032 Alum.	2.17	0.55	1.84	9273	0.044	0.048	37	0.044	0.048	37
0.040 Alum.	2.80	0.71	2.37	9273	0.057	0.062	48	0.057	0.062	48
0.050 Alum.	3.50	0.89	2.96	9273	0.071	0.077	59	0.071	0.077	59

Table 1			Applied Load (PSF)					
Allowable Spans			10	20	30	40	50	60
Section	Span Limit	Span Type	Allowable Spans (ft)					
26 Ga Sinewave	L/60	1 Span	6'-1" *	4'-5" *	3'-8" *	3'-2" *	2'-10" *	2'-7" *
		2 Span	6'-1" *	4'-5" *	3'-8" *	3'-2" *	2'-10" *	2'-7" *
		3 Span	6'-4" *	4'-7" *	3'-9" *	3'-3" *	2'-11" *	2'-8" *
	L/240	1 Span	5'-8"	4'-5" *	3'-8" *	3'-2" *	2'-10" *	2'-7" *
		2 Span	6'-1" *	4'-5" *	3'-8" *	3'-2" *	2'-10" *	2'-7" *
		3 Span	6'-2"	4'-7" *	3'-9" *	3'-3" *	2'-11" *	2'-8" *
24 Ga Sinewave	L/60	1 Span	6'-8" *	4'-11" *	4'-0" *	3'-6" *	3'-2" *	2'-11" *
		2 Span	6'-8" *	4'-11" *	4'-0" *	3'-6" *	3'-2" *	2'-11" *
		3 Span	6'-11" *	5'-0" *	4'-2" *	3'-7" *	3'-3" *	3'-0" *
	L/240	1 Span	6'-0"	4'-10"	4'-0" *	3'-6" *	3'-2" *	2'-11" *
		2 Span	6'-8" *	4'-11" *	4'-0" *	3'-6" *	3'-2" *	2'-11" *
		3 Span	6'-7"	5'-0" *	4'-2" *	3'-7" *	3'-3" *	3'-0" *
22 Ga Sinewave	L/60	1 Span	7'-1" *	5'-2" *	4'-3" *	3'-9" *	3'-4" *	3'-1" *
		2 Span	7'-1" *	5'-2" *	4'-3" *	3'-9" *	3'-4" *	3'-1" *
		3 Span	7'-4" *	5'-4" *	4'-5" *	3'-10" *	3'-6" *	3'-2" *
	L/240	1 Span	6'-3"	5'-1"	4'-3" *	3'-9" *	3'-4" *	3'-1" *
		2 Span	7'-0"	5'-2" *	4'-3" *	3'-9" *	3'-4" *	3'-1" *
		3 Span	6'-10"	5'-4" *	4'-5" *	3'-10" *	3'-6" *	3'-2" *
20 Ga Sinewave	L/60	1 Span	7'-10" *	5'-10" *	4'-10" *	4'-2" *	3'-9" *	3'-6" *
		2 Span	7'-10" *	5'-10" *	4'-10" *	4'-2" *	3'-9" *	3'-6" *
		3 Span	8'-1" *	6'-0" *	5'-0" *	4'-4" *	3'-11" *	3'-7" *
	L/240	1 Span	6'-9"	5'-6"	4'-10" *	4'-2" *	3'-9" *	3'-6" *
		2 Span	7'-7"	5'-10" *	4'-10" *	4'-2" *	3'-9" *	3'-6" *
		3 Span	7'-4"	6'-0" *	5'-0" *	4'-4" *	3'-11" *	3'-7" *
18 Ga Sinewave	L/60	1 Span	8'-7" *	6'-5" *	5'-4" *	4'-8" *	4'-2" *	3'-10" *
		2 Span	8'-7" *	6'-5" *	5'-4" *	4'-8" *	4'-2" *	3'-10" *
		3 Span	8'-10" *	6'-7" *	5'-6" *	4'-10" *	4'-4" *	4'-0" *
	L/240	1 Span	7'-2"	5'-11"	5'-2"	4'-8" *	4'-2" *	3'-10" *
		2 Span	8'-0"	6'-5" *	5'-4" *	4'-8" *	4'-2" *	3'-10" *
		3 Span	7'-10"	6'-5" *	5'-6" *	4'-10" *	4'-4" *	4'-0" *
16 Ga Sinewave	L/60	1 Span	9'-3" *	7'-0" *	5'-10" *	5'-1" *	4'-7" *	4'-3" *
		2 Span	9'-3" *	7'-0" *	5'-10" *	5'-1" *	4'-7" *	4'-3" *
		3 Span	9'-7" *	7'-3" *	6'-0" *	5'-3" *	4'-9" *	4'-4" *
	L/240	1 Span	7'-7"	6'-3"	5'-7"	5'-1"	4'-7" *	4'-3" *
		2 Span	8'-6"	7'-0" *	5'-10" *	5'-1" *	4'-7" *	4'-3" *
		3 Span	8'-3"	6'-10"	6'-0" *	5'-3" *	4'-9" *	4'-4" *
0.032 Alum.	L/60	1 Span	5'-4" *	3'-10" *	3'-2" *	2'-9" *	2'-5" *	2'-3" *
		2 Span	5'-4" *	3'-10" *	3'-2" *	2'-9" *	2'-5" *	2'-3" *
		3 Span	5'-6" *	3'-11" *	3'-3" *	2'-10" *	2'-6" *	2'-4" *
	L/240	1 Span	4'-6"	3'-8"	3'-2" *	2'-9" *	2'-5" *	2'-3" *
		2 Span	5'-1"	3'-10" *	3'-2" *	2'-9" *	2'-5" *	2'-3" *
		3 Span	5'-0"	3'-11" *	3'-3" *	2'-10" *	2'-6" *	2'-4" *
0.040 Alum.	L/60	1 Span	6'-0" *	4'-4" *	3'-6" *	3'-1" *	2'-9" *	2'-6" *
		2 Span	6'-0" *	4'-4" *	3'-6" *	3'-1" *	2'-9" *	2'-6" *
		3 Span	6'-2" *	4'-5" *	3'-8" *	3'-2" *	2'-10" *	2'-7" *
	L/240	1 Span	4'-11"	3'-11"	3'-6"	3'-1" *	2'-9" *	2'-6" *
		2 Span	5'-6"	4'-4" *	3'-6" *	3'-1" *	2'-9" *	2'-6" *
		3 Span	5'-5"	4'-4"	3'-8" *	3'-2" *	2'-10" *	2'-7" *
0.050 Alum.	L/60	1 Span	6'-7" *	4'-9" *	3'-11" *	3'-5" *	3'-1" *	2'-10" *
		2 Span	6'-7" *	4'-9" *	3'-11" *	3'-5" *	3'-1" *	2'-10" *
		3 Span	6'-10" *	4'-11" *	4'-1" *	3'-6" *	3'-2" *	2'-11" *
	L/240	1 Span	5'-3"	4'-3"	3'-9"	3'-5"	3'-1" *	2'-10" *
		2 Span	5'-11"	4'-9"	3'-11" *	3'-5" *	3'-1" *	2'-10" *
		3 Span	5'-9"	4'-8"	4'-1" *	3'-6" *	3'-2" *	2'-11" *



**Sinewave Profile
Sample Calculation**

Required Load = 40 psf
 Required Deflection Limit = L / 240
 Span Type = 2 Span

Allowable Span = 4'-2" (20 Ga Steel)
 Allowable Span = 3'-1" (0.040 Alum.)

GENERAL NOTES

1. An asterisk (*) indicates allowable stress is reached.
2. For structural roofing & siding made of formed metal sheets, the total load deflection shall not exceed L/60.
3. Refer to Table 1604.3 limits & footnotes of the International Building Code (IBC) for additional guidance.
4. Allowable spans & loads DO include self-weight of panel.
5. All values are for one foot of panel width unless noted otherwise.

STEEL NOTES

1. Yield stress = Fy = 30,000 psi
2. Loads & spans for steel are based on the AISI Standard for Design of Cold-Formed Steel Structural Members (2007 Edition)

ALUMINUM NOTES (3003-H14)

1. Yield stress = Fty = 17,000 psi & Fcy = 15,300 psi
2. Loads & spans for aluminum are based on the Aluminum Design Manual (January 2015).



CORRUGATED METALS PRODUCTS: SINEWAVE (7/8 x 2.67) - Galvanized / Cold-rolled & Aluminum Alloy

Table 2			Trial Span (ft)									
Allowable Loads			3	4	5	6	7	8	9	10	11	12
Section	Span	Span	Allowable Loads (PSF)									
26 Ga Sinewave	L/60	1 Span	45 *	24 *	15 *	10 *	7*	5*	4*	3*	2*	1*
		2 Span	45 *	24 *	15 *	10 *	7*	5*	4*	3*	2*	1*
		3 Span	48 *	26 *	16 *	11 *	7*	5*	4*	3*	2*	1*
	L/240	1 Span	45 *	24 *	14	8	4	2	1	0	0	0
		2 Span	45 *	24 *	15 *	10 *	7	4	2	1	1	0
		3 Span	48 *	26 *	16 *	11	6	4	2	1	0	0
24 Ga Sinewave	L/60	1 Span	55 *	30 *	18 *	12 *	8*	6*	4*	3*	2*	2*
		2 Span	55 *	30 *	18 *	12 *	8*	6*	4*	3*	2*	2*
		3 Span	58 *	32 *	20 *	13 *	9*	7*	5*	4*	3*	2*
	L/240	1 Span	55 *	30 *	18	10	5	3	2	1	0	0
		2 Span	55 *	30 *	18 *	12 *	8	5	3	2	1	0
		3 Span	58 *	32 *	20 *	13	8	4	3	1	1	0
22 Ga Sinewave	L/60	1 Span	63 *	34 *	21 *	14 *	10 *	7*	5*	4*	3*	2*
		2 Span	63 *	34 *	21 *	14 *	10 *	7*	5*	4*	3*	2*
		3 Span	67 *	37 *	23 *	15 *	11 *	8*	6*	4*	3*	2*
	L/240	1 Span	63 *	34 *	21	11	6	3	2	1	0	0
		2 Span	63 *	34 *	21 *	14 *	10	6	3	2	1	0
		3 Span	67 *	37 *	23 *	15 *	9	5	3	2	1	0
20 Ga Sinewave	L/60	1 Span	80 *	44 *	27 *	18 *	13 *	9*	7*	5*	4*	3*
		2 Span	80 *	44 *	27 *	18 *	13 *	9*	7*	5*	4*	3*
		3 Span	86 *	47 *	29 *	20 *	14 *	10 *	7*	5*	4*	3*
	L/240	1 Span	80 *	44 *	27	14	8	5	2	1	0	0
		2 Span	80 *	44 *	27 *	18 *	13	8	5	3	1	0
		3 Span	86 *	47 *	29 *	20 *	11	7	4	2	1	0
18 Ga Sinewave	L/60	1 Span	99 *	54 *	34 *	22 *	16 *	11 *	8*	6*	5*	3*
		2 Span	99 *	54 *	34 *	22 *	16 *	11 *	8*	6*	5*	3*
		3 Span	106 *	58 *	36 *	24 *	17 *	12 *	9*	7*	5*	4*
	L/240	1 Span	99 *	54 *	34	18	10	6	3	2	0	0
		2 Span	99 *	54 *	34 *	22 *	16 *	10	6	3	2	1
		3 Span	106 *	58 *	36 *	24 *	15	9	5	3	1	0
16 Ga Sinewave	L/60	1 Span	122 *	67 *	41 *	28 *	19 *	14 *	10 *	8*	6*	4*
		2 Span	122 *	67 *	41 *	28 *	19 *	14 *	10 *	8*	6*	4*
		3 Span	130 *	72 *	45 *	30 *	21 *	15 *	11 *	8*	6*	5*
	L/240	1 Span	122 *	67 *	41 *	23	13	7	4	2	1	0
		2 Span	122 *	67 *	41 *	28 *	19 *	12	7	4	2	1
		3 Span	130 *	72 *	45 *	30 *	18	11	7	4	2	1
0.032 Alum.	L/60	1 Span	32 *	18 *	11 *	7*	5*	4*	3*	2*	1*	1*
		2 Span	32 *	18 *	11 *	7*	5*	4*	3*	2*	1*	1*
		3 Span	35 *	19 *	12 *	8*	5*	4*	3*	2*	2*	1*
	L/240	1 Span	32 *	14	7	4	2	1	0	0	0	0
		2 Span	32 *	18 *	10	5	3	2	1	0	0	0
		3 Span	35 *	19 *	9	5	3	1	1	0	0	0
0.040 Alum.	L/60	1 Span	41 *	23 *	14 *	9*	7*	5*	4*	3*	2*	1*
		2 Span	41 *	23 *	14 *	9*	7*	5*	4*	3*	2*	1*
		3 Span	44 *	24 *	15 *	10 *	7*	5*	4*	3*	2*	2*
	L/240	1 Span	41 *	19	9	5	3	1	1	0	0	0
		2 Span	41 *	23 *	13	7	4	2	1	1	0	0
		3 Span	44 *	24 *	12	7	4	2	1	0	0	0
0.050 Alum.	L/60	1 Span	51 *	28 *	18 *	12 *	8*	6*	4*	3*	3*	2*
		2 Span	51 *	28 *	18 *	12 *	8*	6*	4*	3*	3*	2*
		3 Span	55 *	30 *	19 *	13 *	9*	7*	5*	4*	3*	2*
	L/240	1 Span	51 *	24	11	6	3	2	1	0	0	0
		2 Span	51 *	28 *	17	9	5	3	2	1	0	0
		3 Span	55 *	30 *	15	8	5	3	1	1	0	0

GENERAL NOTES

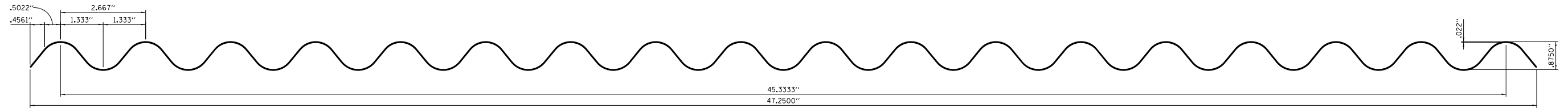
1. An asterisk (*) indicates allowable stress is reached.
2. A Strikethrough (~~400~~) indicates less than 10 psf ASCE minimum.
3. For structural roofing & siding made of formed metal sheets, the total load deflection shall not exceed L/60.
4. Refer to Table 1604.3 limits & footnotes of the International Building Code (IBC) for additional guidance.
5. Allowable spans & loads DO include self-weight of panel.
6. All values are for one foot of panel width unless noted otherwise.

STEEL NOTES

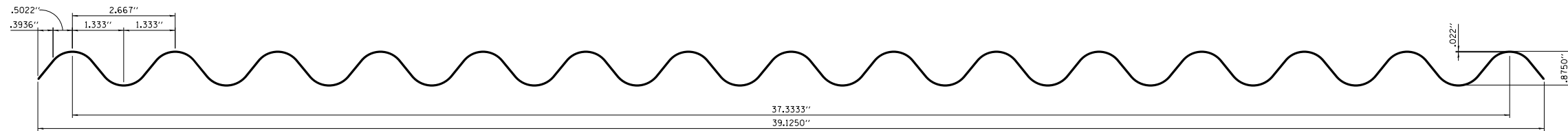
1. Yield stress = Fy = 30,000 psi
2. Loads & spans for steel are based on the AISI Standard for Design of Cold-Formed Steel Structural Members (2007 Edition)

ALUMINUM NOTES (3003-H-14)

1. Yield stress = Fty = 17,000 psi & Fcy = 15,300 psi
2. Loads & spans for aluminum are based on the Aluminum Design Manual (January 2015).



26 GA. (45 1/3 COVER)



26 GA. (37 1/3 COVER)

<p>WILFETT HOFMANN ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 7403 STREET, DODON, IL 61031-0387 PH: 815-438-0273</p>		<p>REMARKS</p>
<p>DRAWN F.D.L.</p>	<p>REV.</p>	<p>DATE</p>
<p>CHECKED P.L.P.</p>	<p>APPROVED G.K.C.</p>	
<p>CORRUGATED METALS, INC. 6550 REVLON DRIVE BELVIDERE, ILLINOIS 61008 SINEWAVE (7/8"x2.67") PROFILE DRAWING - 26 GA.</p>		
<p>PHASE:</p> <p><input type="checkbox"/> PRELIM</p> <p><input checked="" type="checkbox"/> FINAL</p> <p><input type="checkbox"/> RECORD</p>		
<p>WHA No.</p> <p>1194D13</p>		
<p>DATE:</p> <p>SEPT. 2018</p>		
<p>TOTAL No.</p> <p>1</p>		
<p>SHEET No.</p> <p>1</p>		