

# 8" BOX RIB LOAD TABLES

WITH

3003-H14 ALUMINUM,  $F_{TY} = 17$  KSI

(0.032 ALUM, 0.040 ALUM & 0.050 ALUM)

GALVALUME GRADE 50 KSI STEEL

(24 GA)

GALVANIZED/COLD-ROLLED GRADE 33 KSI STEEL

(22 GA, 20 GA, 18 GA, & 16 GA)

STAINLESS STEEL GRADE 30 KSI

(24 GA, 22 GA, 20 GA, & 18 GA)

HIGH STRENGTH GRADE 45 KSI STEEL

(22 GA, 20 GA, & 18 GA)

FOR

## CORRUGATED METALS, INC.

OCTOBER 15, 2018



**WILLETT HOFMANN**  
& ASSOCIATES INC

ENGINEERING ARCHITECTURE LAND SURVEYING

809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-000918

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Expires: 11/30/2020



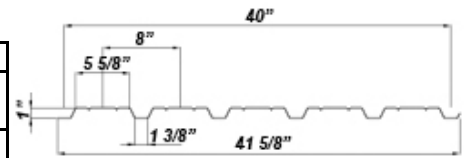
*Exp 11/30/2020*

# CORRUGATED METALS PRODUCTS: 8" Box Rib

## Steel & Aluminum

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)
22 Ga	5.00	1.44	1.47	19760	0.069	0.223	156	0.069	0.095	156
20 Ga	6.45	1.86	1.90	19760	0.088	0.285	199	0.088	0.121	199
18 Ga	8.06	2.32	2.37	19760	0.110	0.350	246	0.110	0.150	246
16 Ga	9.99	2.88	2.94	19760	0.136	0.426	302	0.136	0.184	302
0.032 Alum	1.79	0.52	1.52	9273	0.057	0.163	54	0.057	0.083	68
0.04 Alum	2.24	0.65	1.90	9273	0.074	0.226	79	0.074	0.105	92
0.05 Alum	2.80	0.81	2.37	9273	0.097	0.313	115	0.097	0.131	121

Table 1			Applied Load (PSF)					
Allowable Spans			10	20	30	40	50	60
Section	Span Limit	Span Type	Allowable Spans (ft)					
22 Ga	L/60	1 Span	10'-5" *	7'-8" *	6'-4" *	5'-6" *	4'-11" *	4'-6" *
		2 Span	10'-5" *	7'-8" *	6'-4" *	5'-6" *	4'-11" *	4'-6" *
		3 Span	10'-10" *	7'-11" *	6'-6" *	5'-8" *	5'-1" *	4'-8" *
	L/240	1 Span	7'-3"	5'-11"	5'-2"	4'-9"	4'-5"	4'-2"
		2 Span	8'-2"	6'-8"	5'-10"	5'-4"	4'-11" *	4'-6" *
		3 Span	8'-0"	6'-6"	5'-8"	5'-2"	4'-10"	4'-7"
20 Ga	L/60	1 Span	11'-7" *	8'-6" *	7'-1" *	6'-2" *	5'-7" *	5'-1" *
		2 Span	11'-7" *	8'-6" *	7'-1" *	6'-2" *	5'-7" *	5'-1" *
		3 Span	12'-0" *	8'-10" *	7'-4" *	6'-5" *	5'-9" *	5'-3" *
	L/240	1 Span	7'-10"	6'-5"	5'-8"	5'-2"	4'-9"	4'-6"
		2 Span	8'-9"	7'-2"	6'-4"	5'-9"	5'-5"	5'-1"
		3 Span	8'-7"	7'-0"	6'-2"	5'-8"	5'-3"	4'-11"
18 Ga	L/60	1 Span	12'-8" *	9'-5" *	7'-10" *	6'-10" *	6'-2" *	5'-7" *
		2 Span	12'-8" *	9'-5" *	7'-10" *	6'-10" *	6'-2" *	5'-7" *
		3 Span	13'-1" *	9'-9" *	8'-1" *	7'-1" *	6'-4" *	5'-10" *
	L/240	1 Span	8'-4"	6'-10"	6'-0"	5'-6"	5'-2"	4'-10"
		2 Span	9'-4"	7'-8"	6'-9"	6'-2"	5'-9"	5'-5"
		3 Span	9'-1"	7'-6"	6'-7"	6'-1"	5'-8"	5'-4"
16 Ga	L/60	1 Span	13'-8" *	10'-3" *	8'-7" *	7'-6" *	6'-9" *	6'-2" *
		2 Span	13'-8" *	10'-3" *	8'-7" *	7'-6" *	6'-9" *	6'-2" *
		3 Span	14'-2" *	10'-8" *	8'-10" *	7'-9" *	7'-0" *	6'-5" *
	L/240	1 Span	8'-10"	7'-3"	6'-5"	5'-11"	5'-6"	5'-2"
		2 Span	9'-11"	8'-2"	7'-3"	6'-7"	6'-2"	5'-10"
		3 Span	9'-8"	8'-0"	7'-1"	6'-5"	6'-0"	5'-8"
0.032 Alum	L/60	1 Span	6'-5" *	4'-7" *	3'-9" *	3'-3" *	2'-11" *	2'-8" *
		2 Span	7'-2" *	5'-2" *	4'-3" *	3'-8" *	3'-3" *	3'-0" *
		3 Span	7'-1" *	5'-1" *	4'-2" *	3'-7" *	3'-3" *	3'-0" *
	L/240	1 Span	4'-11"	4'-0"	3'-6"	3'-2"	2'-11" *	2'-8" *
		2 Span	5'-7"	4'-5"	3'-11"	3'-7"	3'-3" *	3'-0" *
		3 Span	5'-5"	4'-4"	3'-10"	3'-6"	3'-3" *	3'-0" *
0.04 Alum	L/60	1 Span	7'-8" *	5'-6" *	4'-6" *	3'-11" *	3'-6" *	3'-3" *
		2 Span	8'-4" *	6'-0" *	4'-11" *	4'-3" *	3'-10" *	3'-6" *
		3 Span	8'-7" *	6'-2" *	5'-1" *	4'-5" *	3'-11" *	3'-7" *
	L/240	1 Span	5'-5"	4'-4"	3'-9"	3'-5"	3'-2"	3'-0"
		2 Span	6'-1"	4'-10"	4'-3"	3'-10"	3'-7"	3'-5"
		3 Span	5'-11"	4'-9"	4'-2"	3'-9"	3'-6"	3'-4"
0.05 Alum	L/60	1 Span	9'-3" *	6'-8" *	5'-6" *	4'-9" *	4'-3" *	3'-11" *
		2 Span	9'-6" *	6'-10" *	5'-7" *	4'-10" *	4'-4" *	4'-0" *
		3 Span	9'-9" *	7'-1" *	5'-10" *	5'-0" *	4'-6" *	4'-2" *
	L/240	1 Span	5'-10"	4'-9"	4'-2"	3'-9"	3'-6"	3'-4"
		2 Span	6'-7"	5'-3"	4'-8"	4'-3"	3'-11"	3'-8"
		3 Span	6'-5"	5'-2"	4'-6"	4'-2"	3'-10"	3'-7"



**8" Box Rib Profile**  
Sample Calculation

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

Allowable Span = 5'-9" (20 Ga Steel)

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 = 33,000 psi (Steel)
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 = Fcy = 15,300 psi.
2. Loads & spans for aluminum are based on the Aluminum Design Manual (January 2015).



# CORRUGATED METALS PRODUCTS: 8" Box Rib

## Steel & Aluminum

Table 2			Trial Span (ft)									
Allowable Loads			3	4	5	6	7	8	9	10	11	12
Section	Span Limit	Span Type	Allowable Loads (PSF)									
22 Ga	L/60	1 Span	137 *	76 *	48 *	33 *	24 *	18 *	13 *	11 *	<del>8 *</del>	<del>7 *</del>
		2 Span	137 *	76 *	48 *	33 *	24 *	18 *	13 *	11 *	<del>8 *</del>	<del>7 *</del>
		3 Span	146 *	81 *	51 *	35 *	25 *	19 *	15 *	11 *	<del>9 *</del>	<del>7 *</del>
	L/240	1 Span	137 *	67	33	19	11	<del>7</del>	<del>4</del>	<del>2</del>	<del>1</del>	<del>1</del>
		2 Span	137 *	76 *	48 *	27	16	10	<del>7</del>	<del>4</del>	<del>3</del>	<del>2</del>
		3 Span	146 *	81 *	45	25	15	<del>9</del>	<del>6</del>	<del>4</del>	<del>2</del>	<del>1</del>
20 Ga	L/60	1 Span	175 *	97 *	61 *	42 *	30 *	23 *	17 *	14 *	11 *	<del>9 *</del>
		2 Span	175 *	97 *	61 *	42 *	30 *	23 *	17 *	14 *	11 *	<del>9 *</del>
		3 Span	187 *	104 *	66 *	45 *	32 *	24 *	19 *	15 *	12 *	<del>9 *</del>
	L/240	1 Span	175 *	87	43	24	14	<del>9</del>	<del>5</del>	<del>3</del>	<del>2</del>	<del>1</del>
		2 Span	175 *	97 *	61 *	35	21	13	<del>9</del>	<del>6</del>	<del>4</del>	<del>2</del>
		3 Span	187 *	104 *	58	32	19	12	<del>8</del>	<del>5</del>	<del>3</del>	<del>2</del>
18 Ga	L/60	1 Span	216 *	120 *	76 *	52 *	37 *	28 *	22 *	17 *	13 *	11 *
		2 Span	216 *	120 *	76 *	52 *	37 *	28 *	22 *	17 *	13 *	11 *
		3 Span	231 *	129 *	81 *	56 *	40 *	30 *	23 *	18 *	15 *	12 *
	L/240	1 Span	216 *	108	54	30	18	11	<del>7</del>	<del>4</del>	<del>3</del>	<del>1</del>
		2 Span	216 *	120 *	76 *	44	26	17	11	<del>7</del>	<del>5</del>	<del>3</del>
		3 Span	231 *	129 *	72	40	24	15	10	<del>7</del>	<del>4</del>	<del>3</del>
16 Ga	L/60	1 Span	265 *	148 *	93 *	64 *	46 *	34 *	26 *	21 *	17 *	13 *
		2 Span	265 *	148 *	93 *	64 *	46 *	34 *	26 *	21 *	17 *	13 *
		3 Span	284 *	158 *	100 *	68 *	49 *	37 *	29 *	22 *	18 *	15 *
	L/240	1 Span	265 *	134	67	37	22	14	<del>9</del>	<del>5</del>	<del>3</del>	<del>2</del>
		2 Span	265 *	148 *	93 *	54	33	21	14	<del>9</del>	<del>6</del>	<del>4</del>
		3 Span	284 *	158 *	89	50	30	19	12	<del>8</del>	<del>5</del>	<del>3</del>
0.032 Alum	L/60	1 Span	47 *	26 *	16 *	11 *	<del>8 *</del>	<del>6 *</del>	<del>4 *</del>	<del>3 *</del>	<del>3 *</del>	<del>2</del>
		2 Span	59 *	33 *	21 *	14 *	10 *	<del>7 *</del>	<del>6 *</del>	<del>4 *</del>	<del>3 *</del>	<del>3 *</del>
		3 Span	58 *	32 *	20 *	14 *	10 *	<del>7 *</del>	<del>6 *</del>	<del>4 *</del>	<del>3 *</del>	<del>3 *</del>
	L/240	1 Span	46	19	<del>9</del>	<del>5</del>	<del>3</del>	<del>1</del>	<del>1</del>	0	0	0
		2 Span	59 *	27	13	<del>7</del>	<del>4</del>	<del>3</del>	<del>1</del>	<del>1</del>	0	0
		3 Span	58 *	25	12	<del>7</del>	<del>4</del>	<del>2</del>	<del>1</del>	<del>1</del>	0	0
0.04 Alum	L/60	1 Span	69 *	38 *	24 *	16 *	12 *	<del>9 *</del>	<del>7 *</del>	<del>5 *</del>	<del>4</del>	<del>3</del>
		2 Span	81 *	45 *	28 *	19 *	14 *	10 *	<del>8 *</del>	<del>6 *</del>	<del>5 *</del>	<del>4 *</del>
		3 Span	86 *	48 *	30 *	21 *	15 *	11 *	<del>8 *</del>	<del>7 *</del>	<del>5 *</del>	<del>4</del>
	L/240	1 Span	61	25	12	<del>7</del>	<del>4</del>	<del>2</del>	<del>1</del>	<del>1</del>	0	0
		2 Span	81 *	36	18	10	<del>6</del>	<del>3</del>	<del>2</del>	<del>1</del>	<del>1</del>	0
		3 Span	80	33	16	<del>9</del>	<del>5</del>	<del>3</del>	<del>2</del>	<del>1</del>	<del>1</del>	0
0.05 Alum	L/60	1 Span	101 *	56 *	36 *	24 *	18 *	13 *	10 *	<del>7</del>	<del>5</del>	<del>4</del>
		2 Span	106 *	59 *	37 *	26 *	18 *	14 *	11 *	<del>8 *</del>	<del>7 *</del>	<del>5 *</del>
		3 Span	114 *	63 *	40 *	27 *	20 *	15 *	11 *	<del>9 *</del>	<del>7 *</del>	<del>5</del>
	L/240	1 Span	79	33	16	<del>9</del>	<del>5</del>	<del>3</del>	<del>2</del>	<del>1</del>	0	0
		2 Span	106 *	47	23	13	<del>8</del>	<del>5</del>	<del>3</del>	<del>2</del>	<del>1</del>	0
		3 Span	105	43	22	12	<del>7</del>	<del>4</del>	<del>3</del>	<del>2</del>	<del>1</del>	0

**GENERAL NOTES**

1. An asterix (\*) indicates allowable stress is reached.
2. A Strikethrough (~~100~~) 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 = 33,000 psi (Steel)
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)**

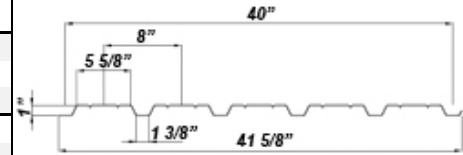
1. Yield stress = Fcy = 15,300 psi.
2. Loads & spans for aluminum are based on the Aluminum Design Manual (January 2015).

# CORRUGATED METALS PRODUCTS: 8" Box Rib

## Stainless Steel, High-Strength Steel, & Galvalume

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 (in <sup>2</sup> )	Fa (psi)	I (in <sup>4</sup> /ft)	S (in <sup>3</sup> /ft)	Ma (lb-ft/ft)	I (in <sup>4</sup> /ft)
24 Ga SS	4.36	1.26	1.28	17964	0.060	0.196	119	0.060	0.083	124
22 Ga SS	5.00	1.44	1.47	17964	0.069	0.223	142	0.069	0.095	142
20 Ga SS	6.45	1.86	1.90	17964	0.088	0.285	181	0.088	0.121	181
18 Ga SS	8.06	2.32	2.37	17964	0.110	0.350	224	0.110	0.150	224
22 Ga HS	5.00	1.44	1.47	26946	0.069	0.223	199	0.069	0.095	213
20 Ga HS	6.45	1.86	1.90	26946	0.088	0.285	272	0.088	0.121	272
18 Ga HS	8.06	2.32	2.37	26946	0.110	0.350	336	0.110	0.150	336
24 Ga GALVALUME	4.36	1.26	1.28	29940	0.060	0.196	175	0.060	0.083	207

Table 1			Applied Load (PSF)					
Allowable Spans			10	20	30	40	50	60
Section	Span Limit	Span Type	Allowable Spans (ft)					
24 Ga SS	L/60	1 Span	9'-5" *	6'-10" *	5'-8" *	4'-11" *	4'-5" *	4'-0" *
		2 Span	9'-5" *	6'-10" *	5'-8" *	4'-11" *	4'-5" *	4'-0" *
		3 Span	9'-8" *	7'-1" *	5'-10" *	5'-1" *	4'-7" *	4'-2" *
	L/240	1 Span	6'-7"	5'-4"	4'-8"	4'-3"	3'-11"	3'-9"
		2 Span	7'-4"	5'-11"	5'-3"	4'-9"	4'-5" *	4'-0" *
		3 Span	7'-2"	5'-10"	5'-1"	4'-8"	4'-4"	4'-1"
22 Ga SS	L/60	1 Span	9'-11" *	7'-3" *	6'-0" *	5'-3" *	4'-8" *	4'-4" *
		2 Span	9'-11" *	7'-3" *	6'-0" *	5'-3" *	4'-8" *	4'-4" *
		3 Span	10'-3" *	7'-6" *	6'-2" *	5'-5" *	4'-10" *	4'-5" *
	L/240	1 Span	6'-10"	5'-6"	4'-10"	4'-5"	4'-2"	3'-11"
		2 Span	7'-8"	6'-3"	5'-6"	5'-0"	4'-8"	4'-4" *
		3 Span	7'-6"	6'-1"	5'-4"	4'-10"	4'-6"	4'-3"
20 Ga SS	L/60	1 Span	11'-1" *	8'-2" *	6'-9" *	5'-11" *	5'-3" *	4'-10" *
		2 Span	11'-1" *	8'-2" *	6'-9" *	5'-11" *	5'-3" *	4'-10" *
		3 Span	11'-5" *	8'-5" *	7'-0" *	6'-1" *	5'-6" *	5'-0" *
	L/240	1 Span	7'-4"	6'-0"	5'-3"	4'-10"	4'-6"	4'-3"
		2 Span	8'-3"	6'-9"	5'-11"	5'-5"	5'-0"	4'-9"
		3 Span	8'-0"	6'-7"	5'-9"	5'-3"	4'-11"	4'-8"
18 Ga SS	L/60	1 Span	12'-1" *	9'-0" *	7'-5" *	6'-6" *	5'-10" *	5'-4" *
		2 Span	12'-1" *	9'-0" *	7'-5" *	6'-6" *	5'-10" *	5'-4" *
		3 Span	12'-6" *	9'-3" *	7'-8" *	6'-9" *	6'-1" *	5'-7" *
	L/240	1 Span	7'-9"	6'-5"	5'-8"	5'-2"	4'-10"	4'-6"
		2 Span	8'-9"	7'-2"	6'-4"	5'-10"	5'-5"	5'-1"
		3 Span	8'-6"	7'-0"	6'-2"	5'-8"	5'-3"	5'-0"
22 Ga HS	L/60	1 Span	11'-7"	8'-11" *	7'-4" *	6'-5" *	5'-9" *	5'-3" *
		2 Span	12'-2" *	8'-11" *	7'-4" *	6'-5" *	5'-9" *	5'-3" *
		3 Span	12'-7" *	9'-2" *	7'-7" *	6'-7" *	5'-11" *	5'-5" *
	L/240	1 Span	7'-3"	5'-11"	5'-2"	4'-9"	4'-5"	4'-2"
		2 Span	8'-2"	6'-8"	5'-10"	5'-4"	4'-11"	4'-8"
		3 Span	8'-0"	6'-6"	5'-8"	5'-2"	4'-10"	4'-7"
20 Ga HS	L/60	1 Span	12'-5"	10'-0" *	8'-3" *	7'-2" *	6'-6" *	5'-11" *
		2 Span	13'-6" *	10'-0" *	8'-3" *	7'-2" *	6'-6" *	5'-11" *
		3 Span	13'-7"	10'-4" *	8'-6" *	7'-5" *	6'-8" *	6'-2" *
	L/240	1 Span	7'-10"	6'-5"	5'-8"	5'-2"	4'-9"	4'-6"
		2 Span	8'-9"	7'-2"	6'-4"	5'-9"	5'-5"	5'-1"
		3 Span	8'-7"	7'-0"	6'-2"	5'-8"	5'-3"	4'-11"
18 Ga HS	L/60	1 Span	13'-2"	10'-10"	9'-1" *	8'-0" *	7'-2" *	6'-7" *
		2 Span	14'-9" *	11'-0" *	9'-1" *	8'-0" *	7'-2" *	6'-7" *
		3 Span	14'-6"	11'-4" *	9'-5" *	8'-3" *	7'-5" *	6'-9" *
	L/240	1 Span	8'-4"	6'-10"	6'-0"	5'-6"	5'-2"	4'-10"
		2 Span	9'-4"	7'-8"	6'-9"	6'-2"	5'-9"	5'-5"
		3 Span	9'-1"	7'-6"	6'-7"	6'-1"	5'-8"	5'-4"
24 Ga GALVALUME	L/60	1 Span	11'-1"	8'-10" *	7'-3" *	6'-4" *	5'-8" *	5'-2" *
		2 Span	12'-1" *	8'-10" *	7'-3" *	6'-4" *	5'-8" *	5'-2" *
		3 Span	12'-2"	9'-1" *	7'-6" *	6'-7" *	5'-10" *	5'-4" *
	L/240	1 Span	7'-0"	5'-8"	5'-0"	4'-6"	4'-3"	4'-0"
		2 Span	7'-10"	6'-4"	5'-7"	5'-1"	4'-9"	4'-6"
		3 Span	7'-8"	6'-2"	5'-5"	5'-0"	4'-7"	4'-4"



**8" Box Rib Profile**  
**Sample Calculation**

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

Allowable Span = 5'-5" (20 Ga SS)

**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.
6. "SS" indicates Stainless Steel, "HS" indicates High Strength

**STEEL NOTES**

1. Yield stress =  
     Fy = 30,000 psi (Stainless)  
     45,000 psi (High Strength)  
     50,000 psi (Galvalume)
2. Loads & spans for steel are based on the ASCE "Specification for the Design of Stainless Steel Cold-Formed Structural Members" (ASCE 8-02) and AISC Steel Design Guide 27 for "Structural Stainless Steel"



# CORRUGATED METALS PRODUCTS: 8" Box Rib

## Stainless Steel, High-Strength Steel, & Galvalume

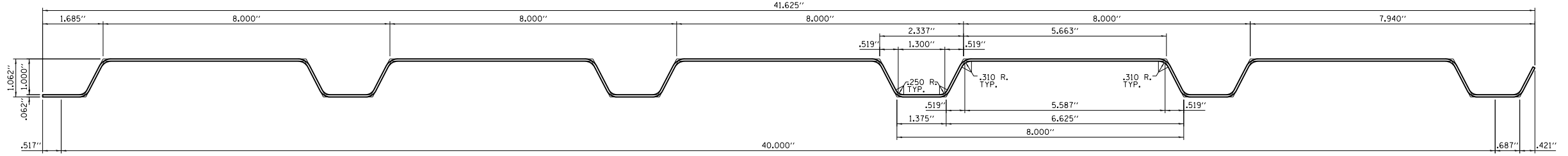
Table 2			Trial Span (ft)									
Allowable Loads			3	4	5	6	7	8	9	10	11	12
Section	Span Limit	Span Type	Allowable Loads (PSF)									
24 Ga SS	L/60	1 Span	108 *	60 *	38 *	26 *	18 *	14 *	10 *	8 *	6 *	5 *
		2 Span	108 *	60 *	38 *	26 *	18 *	14 *	10 *	8 *	6 *	5 *
		3 Span	116 *	64 *	41 *	28 *	20 *	15 *	11 *	9 *	7 *	6 *
	L/240	1 Span	108 *	48	24	13	7	4	3	1	1	0
		2 Span	108 *	60 *	34	19	11	7	4	3	2	1
		3 Span	116 *	63	32	17	10	6	4	2	1	1
22 Ga SS	L/60	1 Span	124 *	69 *	43 *	30 *	21 *	16 *	12 *	9 *	7 *	6 *
		2 Span	124 *	69 *	43 *	30 *	21 *	16 *	12 *	9 *	7 *	6 *
		3 Span	133 *	74 *	47 *	32 *	23 *	17 *	13 *	10 *	8 *	6 *
	L/240	1 Span	124 *	55	27	15	9	5	3	2	1	0
		2 Span	124 *	69 *	39	22	13	8	5	3	2	1
		3 Span	133 *	73	36	20	12	7	5	3	2	1
20 Ga SS	L/60	1 Span	159 *	88 *	56 *	38 *	27 *	20 *	16 *	12 *	10 *	8 *
		2 Span	159 *	88 *	56 *	38 *	27 *	20 *	16 *	12 *	10 *	8 *
		3 Span	170 *	94 *	60 *	41 *	29 *	22 *	17 *	13 *	10 *	8 *
	L/240	1 Span	159 *	71	35	19	11	7	4	2	1	0
		2 Span	159 *	88 *	51	28	17	11	7	4	3	1
		3 Span	170 *	94	47	26	16	10	6	4	2	1
18 Ga SS	L/60	1 Span	196 *	109 *	69 *	47 *	34 *	25 *	19 *	15 *	12 *	10 *
		2 Span	196 *	109 *	69 *	47 *	34 *	25 *	19 *	15 *	12 *	10 *
		3 Span	210 *	117 *	74 *	50 *	36 *	27 *	21 *	16 *	13 *	10 *
	L/240	1 Span	196 *	88	44	24	14	9	5	3	2	1
		2 Span	196 *	109 *	63	35	21	13	8	5	3	2
		3 Span	210 *	117 *	58	33	20	12	8	5	3	2
22 Ga HS	L/60	1 Span	187 *	104 *	66 *	45 *	33 *	25 *	19 *	15 *	11	8
		2 Span	187 *	104 *	66 *	45 *	33 *	25 *	19 *	15 *	12 *	10 *
		3 Span	200 *	112 *	71 *	49 *	35 *	26 *	20 *	16 *	13 *	11 *
	L/240	1 Span	162	67	33	19	11	7	4	2	1	1
		2 Span	187 *	96	48	27	16	10	7	4	3	2
		3 Span	200 *	89	45	25	15	9	6	4	2	1
20 Ga HS	L/60	1 Span	239 *	133 *	85 *	58 *	42 *	32 *	24 *	19 *	15	11
		2 Span	239 *	133 *	85 *	58 *	42 *	32 *	24 *	19 *	16 *	13 *
		3 Span	256 *	143 *	90 *	62 *	45 *	34 *	26 *	21 *	17 *	14 *
	L/240	1 Span	208	87	43	24	14	9	5	3	2	1
		2 Span	239 *	123	62	35	21	13	9	6	4	2
		3 Span	256 *	115	58	32	19	12	8	5	3	2
18 Ga HS	L/60	1 Span	296 *	165 *	105 *	72 *	52 *	39 *	30 *	24 *	19	14
		2 Span	296 *	165 *	105 *	72 *	52 *	39 *	30 *	24 *	19 *	16 *
		3 Span	316 *	177 *	112 *	77 *	56 *	42 *	33 *	26 *	21 *	17 *
	L/240	1 Span	260	108	54	30	18	11	7	4	3	1
		2 Span	296 *	154	78	44	26	17	11	7	5	3
		3 Span	316 *	143	72	40	24	15	10	7	4	3
24 Ga GALVALUME	L/60	1 Span	182 *	102 *	64 *	44 *	32 *	24 *	19 *	14	10	7
		2 Span	182 *	102 *	64 *	44 *	32 *	24 *	19 *	15 *	12 *	10 *
		3 Span	194 *	109 *	69 *	47 *	34 *	26 *	20 *	16 *	13 *	10
	L/240	1 Span	141	58	29	16	9	6	4	2	1	0
		2 Span	182 *	83	42	23	14	9	6	4	2	1
		3 Span	186	77	39	22	13	8	5	3	2	1

**GENERAL NOTES**

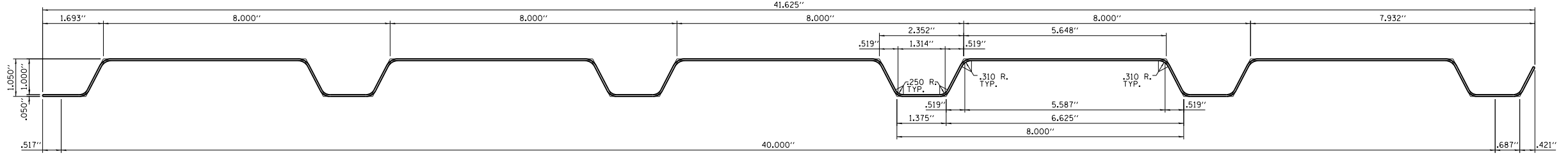
1. An asterisk (\*) indicates allowable stress is reached.
2. A Strikethrough (~~100~~) indicates less than 10 psf ASCE minimum.
3. For structural roofing & siding made of formed metal sheets, the total load deflection shall not exceed L/60.
4. Refer to Table 1604.3 limits & footnotes of the International 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.
7. "SS" indicates Stainless Steel, "HS" indicates High Strength

**STEEL NOTES**

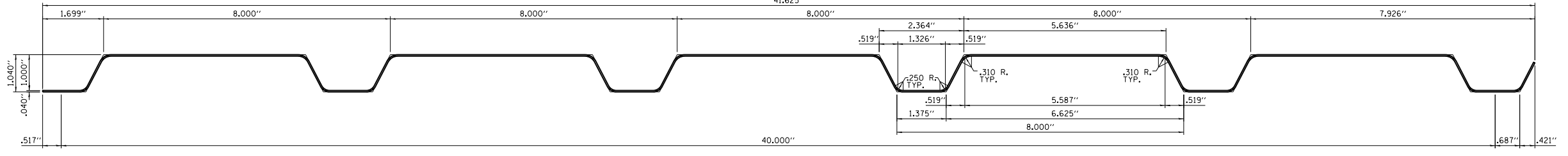
1. Yield stress = Fy = 30,000 psi (Stainless)  
45,000 psi (High Strength)  
50,000 psi (Galvalume)
2. Loads & spans for steel are based on the ASCE "Specification for the Design of Stainless Steel Cold-Formed Structural Members" (ASCE 8-02) and AISI Steel Design Guide 27 for "Structural Stainless Steel"



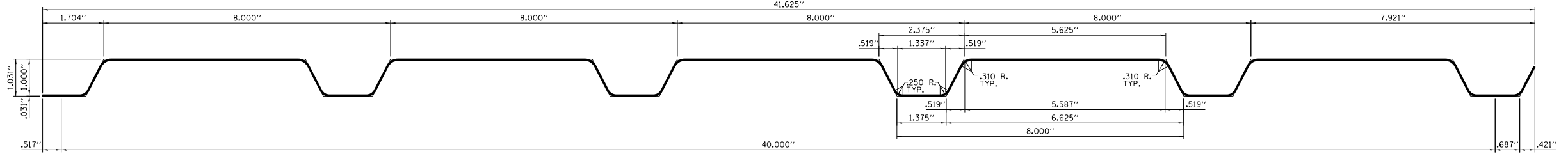
16 GA.



18 GA.



20 GA.



22 GA.

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REV.	DATE	BY	REMARKS

DRAWN	F.D.L.
CHECKED	P.L.P.
APPROVED	G.K.C.

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 ENGINEERS, ARCHITECTS, INTERIORS, LANDSCAPE ARCHITECTS  
 809 EAST 700 STREET, DEKALB, IL 61801-0087  
 TEL: 312-252-1100 FAX: 312-252-1101

**CORRUGATED METALS, INC.**  
 6550 REVLON DRIVE  
 BELVIDERE, ILLINOIS 61008  
 8" BOX RIB PROFILE DRAWINGS 22 GA. - 16 GA. (STEEL)

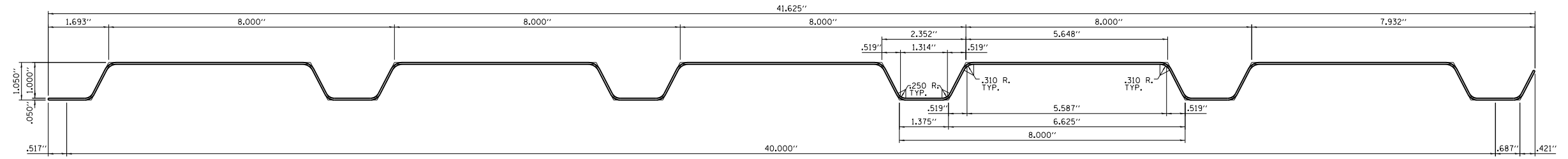
  

PHASE:  
 PRELIM  
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 RECORD  
 OTHER

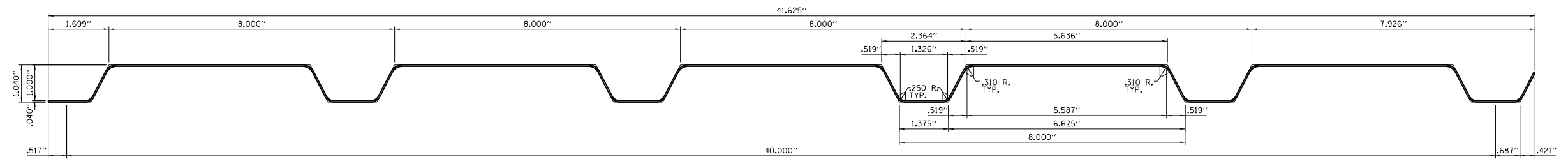
  

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 DATE: OCT. 2018  
 TOTAL No. 4  
 SHEET No. 1

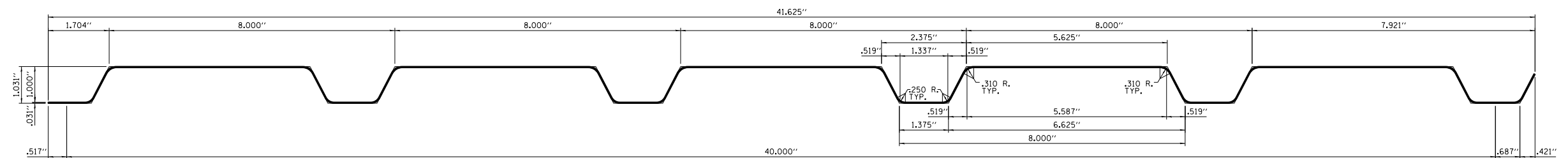
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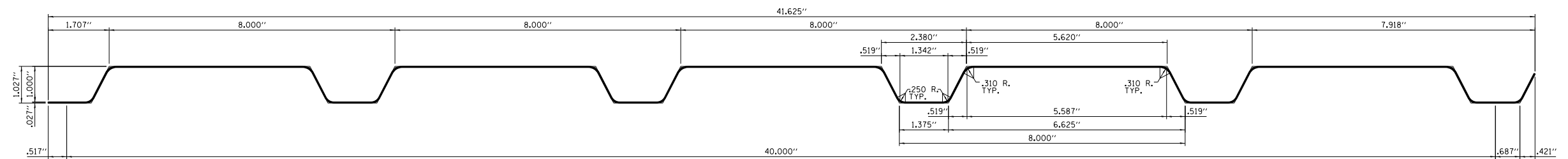
18 GA.



20 GA.



22 GA.

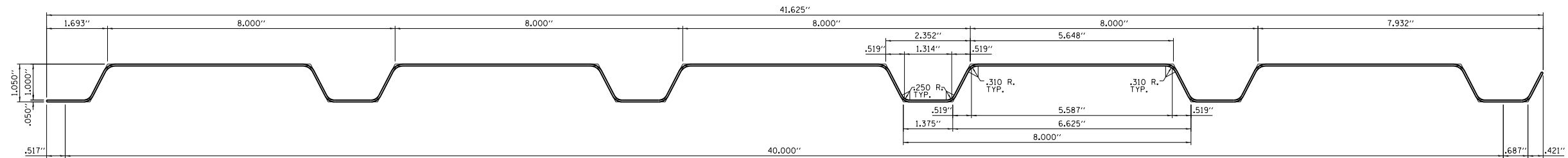


24 GA.

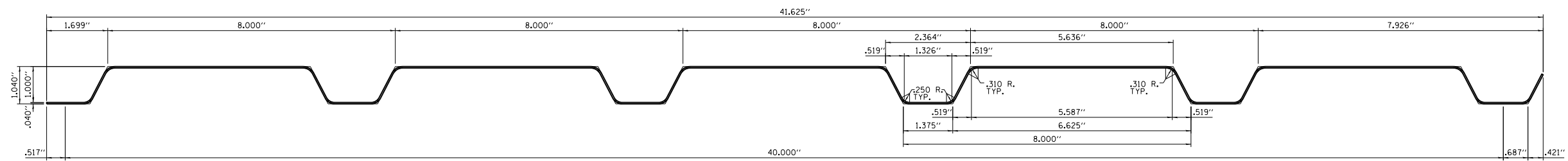
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<b>WILLET HOFMANN &amp; ASSOCIATES, INC.</b> 809 EAST 700 STREET, DEKALB, IL 61001-0087 TEL: 815-232-2222 FAX: 815-232-2221	DRAWN: _____ CHECKED: _____ APPROVED: _____ C.K.C.	REV. DATE BY _____ _____ _____	REMARKS _____ _____ _____
	<b>CORRUGATED METALS, INC.</b> 6550 REVLON DRIVE BELVIDERE, ILLINOIS 61008 8" BOX RIB PROFILE DRAWINGS 24 GA. - 18 GA. STAINLESS STEEL		
	PHASE: <input type="checkbox"/> PRELIM <input checked="" type="checkbox"/> FINAL <input type="checkbox"/> RECORD		
	WHA No. 1194D13 DATE: OCT. 2018 TOTAL No. 4 SHEET No. 2		

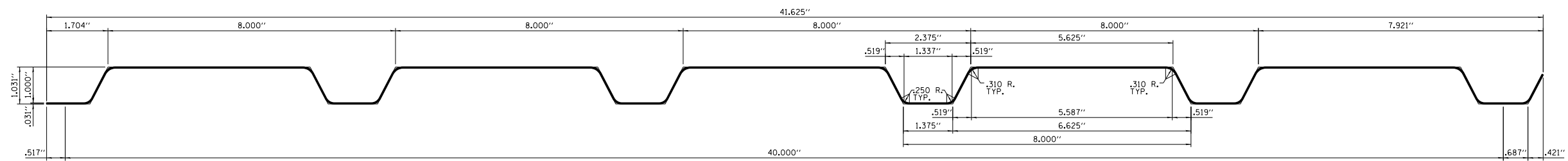
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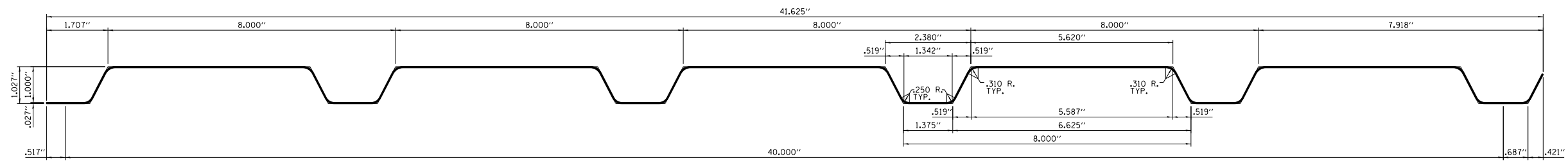
**18 GA. (HIGH-STRENGTH)**



**20 GA. (HIGH-STRENGTH)**

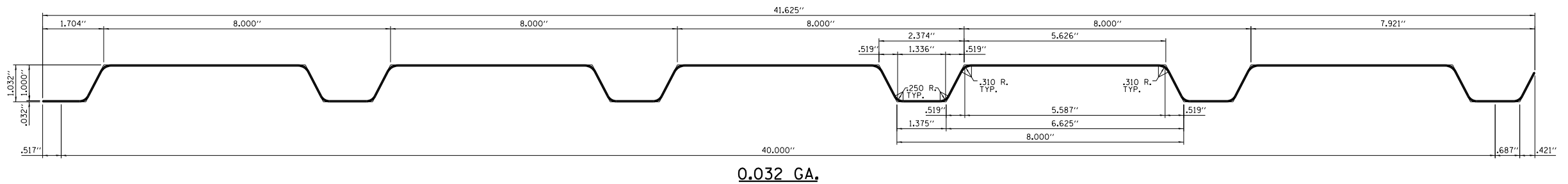
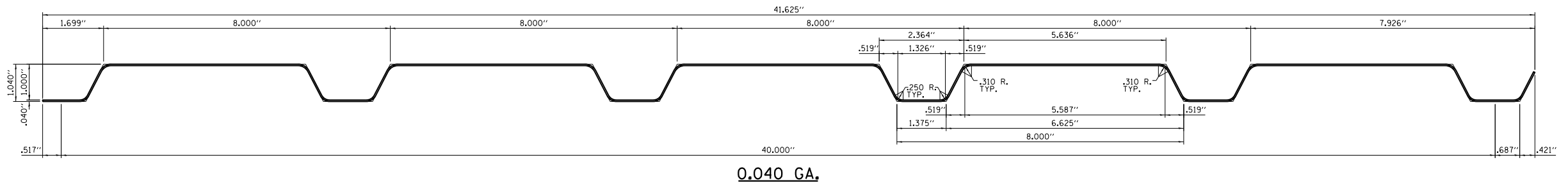
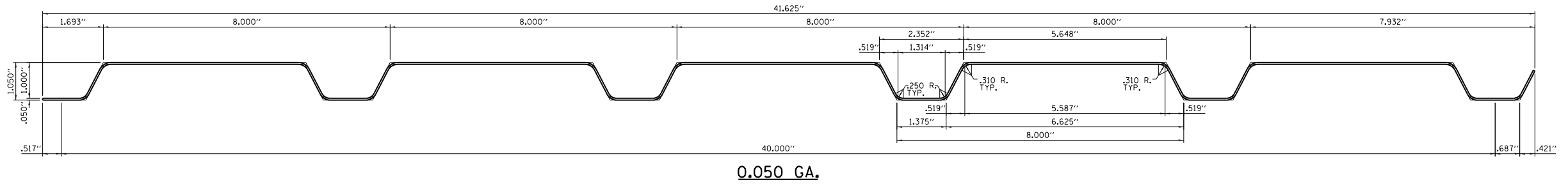


**22 GA. (HIGH-STRENGTH)**



**24 GA. (GALVALUME)**





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**WHA**

**CORRUGATED METALS, INC.**  
 6550 REVLON DRIVE  
 BELVIDERE, ILLINOIS 61008

**8" BOX RIB PROFILE DRAWINGS 0.032, 0.040 & 0.050 GA. ALUM.**

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 FINAL  
 RECORD  
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 TOTAL No. 4  
 SHEET No. 4

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