

**LARR # 26046**

**Table 1 – Table 6: Maximum Allowable Wind Loads (PSF)**

1. Allowable loads are applicable to wind design pressure derived from nominal wind speed ( $V_{asd}$ ) per LABC Section 1609.3.1.
2. Allowable loads are based on the lesser of deflection, and panel strength, with consideration of the effects of fastener location and fastener-to-panel connection on the allowable negative loads. Limiting factor for each allowable load is identified by the following notations:
  - (N) Negative Load/Connection Design Strength (2.0 SF applied to max. test load)
  - (S) Core Shear Design Strength (3.0 SF applied to shear strength per ASTM C273)
  - (B) Flexural Bending Design Strength (Allowable compressive stress per ADM and AISI S100 for aluminum and steel facing respectively)
  - (D) Deflection at L/180 (Core Shear Modulus,  $G = 276$  psi)
3. Design strength for panel connection addresses panel clip-to-panel connection only. Allowable load may be lower based upon the design value of fasteners in supporting structural framing and shall be checked by a qualified engineer.
4. Allowable loads for double span and triple span apply to continuous panels installed over three supports and four supports respectively. Supports are equally spaced.

**TABLE 1 - Allowable Positive and Negative Transverse Loads  
 24 Inch Wide Panel - 22 Gauge Exterior/24 Gauge Interior Steel Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	66	D	40	D	27	D	19	D	13	D	-	-
2.5	84	S	52	D	35	D	25	D	19	D	14	D
3	90	S	60	S	44	D	32	D	24	D	18	D
4	102	S	68	S	51	S	41	S	34	S	27	D

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	67	D	42	D	29	D	22	D	17	D	13	D
2.5	80	S	52	S	38	S	28	D	22	D	17	D
3	87	S	56	S	41	S	32	S	26	S	22	S
4	98	N	64	S	47	S	37	S	30	S	25	S

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	67	D	42	D	29	D	22	D	16	D	13	D
2.5	78	S	50	S	37	S	28	D	22	D	17	D
3	85	S	54	S	40	S	31	S	26	S	22	D
4	97	S	63	S	46	S	36	S	30	S	25	S

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**TABLE 2 - Allowable Positive and Negative Transverse Loads  
 30 Inch Wide Panel - 22 Gauge Exterior/24 Gauge Interior Steel Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	66	D	40	D	27	D	19	D	13	D	-	-
2.5	84	S	52	D	35	D	25	D	19	D	14	D
3	89	N	59	N	44	D	32	D	24	D	18	D
4	89	N	59	N	44	N	36	N	30	N	25	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	67	D	42	D	29	D	22	D	17	D	13	D
2.5	78	N	52	S	38	S	28	D	22	D	17	D
3	78	N	52	N	39	N	31	N	26	S	22	S
4	78	N	52	N	39	N	31	N	26	N	22	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	67	D	42	D	29	D	22	D	16	D	13	D
2.5	78	S	50	S	37	S	28	D	22	D	17	D
3	85	S	54	S	40	S	31	S	26	S	22	D
4	89	N	59	N	45	N	36	N	30	S	25	S

**TABLE 3 - Allowable Positive and Negative Transverse Loads  
 36 Inch Wide Panel - 22 Gauge Exterior/24 Gauge Interior Steel Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	66	D	40	D	27	D	19	D	13	D	-	-
2.5	74	N	49	N	35	D	25	D	19	D	14	D
3	74	N	49	N	37	N	30	N	24	D	18	D
4	74	N	49	N	37	N	30	N	25	N	21	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	65	N	42	D	29	D	22	D	17	D	13	D
2.5	65	N	44	N	33	N	26	N	22	N	17	D
3	65	N	44	N	33	N	26	N	22	N	19	N
4	65	N	44	N	33	N	26	N	22	N	19	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	67	D	42	D	29	D	22	D	16	D	13	D
2.5	74	N	49	N	37	S	28	D	22	D	17	D
3	74	N	49	N	37	N	30	N	25	N	21	N
4	74	N	49	N	37	N	30	N	25	N	21	N

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**TABLE 4 - Allowable Positive and Negative Transverse Wind Loads  
 24 Inch Wide Panel - 0.040 Inch Aluminum Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	60	S	34	D	21	D	14	D	-	-	-	-
2.5	76	S	46	D	29	D	20	D	14	D	-	-
3	86	N	57	D	37	D	26	D	18	D	13	D
4	86	N	58	N	43	N	35	N	28	D	20	B

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	55	S	35	S	25	D	18	D	13	D	10	D
2.5	70	S	45	S	33	S	24	D	18	D	14	D
3	79	N	52	N	39	N	31	D	23	D	18	D
4	79	N	52	N	39	N	31	N	26	N	22	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	54	S	35	S	25	D	18	D	13	D	-	-
2.5	69	S	44	S	33	S	24	D	18	D	13	D
3	83	S	53	S	39	S	31	D	23	D	17	D
4	89	N	60	N	45	N	36	N	30	N	26	N

**TABLE 5 - Allowable Positive and Negative Transverse Wind Loads  
 30 Inch Wide Panel - 0.040 Inch Aluminum Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	60	S	34	D	21	D	14	D	-	-	-	-
2.5	69	N	46	D	29	D	20	D	14	D	-	-
3	69	N	46	N	35	N	26	D	18	D	13	D
4	69	N	46	N	35	N	28	N	23	N	20	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	55	S	35	S	25	D	18	D	13	D	10	D
2.5	63	N	42	N	31	N	24	D	18	D	14	D
3	63	N	42	N	31	N	25	N	21	N	18	N
4	63	N	42	N	31	N	25	N	21	N	18	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	54	S	35	S	25	D	18	D	13	D	-	-
2.5	69	S	44	S	33	S	24	D	18	D	13	D
3	71	N	48	N	36	N	29	N	23	D	17	D
4	71	N	48	N	36	N	29	N	24	N	20	N

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**TABLE 6 - Allowable Positive and Negative Transverse Wind Loads  
 36 Inch Wide Panel - 0.040 Inch Aluminum Skin**

Panel Thickness (Inches)	Span Between Supports (Feet) / Single Span											
	4		6		8		10		12		14	
2	58	N	34	D	21	D	14	D	-	-	-	-
2.5	58	N	38	N	29	N	20	D	14	D	-	-
3	58	N	38	N	29	N	23	N	18	D	13	D
4	58	N	38	N	29	N	23	N	19	N	16	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Double Span											
	4		6		8		10		12		14	
2	52	N	35	N	25	D	18	D	13	D	10	D
2.5	52	N	35	N	26	N	21	N	17	N	14	D
3	52	N	35	N	26	N	21	N	17	N	15	N
4	52	N	35	N	26	N	21	N	17	N	15	N

  

Panel Thickness (Inches)	Span Between Supports (Feet) / Triple Span											
	4		6		8		10		12		14	
2	54	S	35	S	25	D	18	D	13	D	-	-
2.5	60	N	40	N	30	N	24	N	18	D	13	D
3	60	N	40	N	30	N	24	N	20	N	17	N
4	60	N	40	N	30	N	24	N	20	N	17	N