

LOAD SPAN TABLES
PRODUCT: INSULATED ROOF PANEL
SERIES: SKYLINE

PROFILE: MESA
GAUGE: 26 GA OR HEAVIER
FINISHED: SMOOTH

Panel Thickness	Design Criteria	Allowable Loads (PSF)						
		2'	3'	4'	5'	6'	7'	8'
2" Thick	Bending / Shear	192	128	96	77	64	49	38
	Deflection (L/240)	58	53	48	43	36	29	24
	Connection	65	44	33	26	22	19	16
3" Thick	Bending / Shear	192	128	96	77	64	49	38
	Deflection (L/240)	58	53	48	43	36	29	24
	Connection	65	44	33	26	22	19	16
4" Thick	Bending / Shear	291	224	168	134	112	96	84
	Deflection (L/240)	98	95	92	90	76	63	53
	Connection	65	44	33	26	22	19	16
5" Thick	Bending / Shear	317	286	215	172	143	123	107
	Deflection (L/240)	108	102	96	90	83	70	58
	Connection	65	44	33	26	22	19	16
6" Thick	Bending / Shear	349	312	248	199	166	142	124
	Deflection (L/240)	110	110	109	109	108	92	77
	Connection	65	44	33	26	22	19	16

TABLE NOTES:

- 1) Allowable loads were derived from tests conducted in accordance with ASTM E1592 and ASTM E72.
- 2) Allowable loads are calculated with a factor of safety of 2.0 for bending and shear.
- 3) Connection strengths reflect a standard fastener pattern - (@) 1/4" - 14 self drilling screw into minimum 14 ga. substrate. Other substrates must be designed separately.
- 4) Fastener capacity is based on manufacturer pullout / pullover data and are calculated with a safety factor of 3.0.
- 5) Allowable loads assume a minimum bearing of 2".
- 6) Thermal Effects were not considered in analysis.
- 7) The structural capacity of the supporting members were not considered.

LOAD SPAN TABLES
PRODUCT: INSULATED WALL PANEL
SERIES: EDGE, HORIZON

PROFILE: MESA OR SMOOTH
GAUGE: 26 GA OR HEAVIER
FINISHED: EMBOSSED OR SMOOTH

Panel Thickness	Design Criteria	Allowable Loads (PSF)												
		4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'		
2" Thick See Table Notes # 3)	Bending / Shear	93	59	41	30	23	18	15	12	10				
	Deflection (L/180)	47	41	33	27	22	19	16	14	12				
	Connection	42	35	33	26	22	19	16	15	13				
3" Thick	Bending / Shear	126	101	84	68	52	41	33	27	23				
	Deflection (L/180)	94	77	68	58	34	32	29	19	17				
	Connection	57	45	38	33	29	25	23	20	19				
4" Thick	Bending / Shear	168	134	112	84	64	51	41	34	29			24	21
	Deflection (L/180)	110	101	92	79	67	57	49	42	37			32	29
	Connection	57	45	38	33	29	25	23	20	19			17	16
5" Thick	Bending / Shear	168	134	112	84	64	51	41	34	29	24	21		
	Deflection (L/180)	110	101	92	79	67	57	49	42	37	32	29		
	Connection	57	45	38	33	29	25	23	20	19	17	16		
6" Thick	Bending / Shear	168	134	112	84	64	51	41	34	29	24	21		
	Deflection (L/180)	110	101	92	79	67	57	49	42	37	32	29		
	Connection	57	45	38	33	29	25	23	20	19	17	16		

TABLE NOTES:

- 1) Allowable loads were derived from tests conducted in accordance with ASTM E1592 and ASTM E72.
- 2) Allowable loads are calculated with a factor of safety of 2.0 for bending and shear.
- 3) Connection strengths reflect a standard fastener pattern - (@) 1/4" - 14 self drilling screw into minimum 14 ga. substrate. Other substrates must be designed separately. 2" wall panel utilize a flat clip. All other thicknesses utilize an angle clip.
- 4) Fastener capacity is based on manufacturer pullout / pullover data and are calculated with a safety factor of 3.0.
- 5) Allowable loads assume a minimum bearing of 2".
- 6) Thermal Effects were not considered in analysis.
- 7) The structural capacity of the supporting members were not considered.
- 8) Bending/Shear and Deflection for 5" and 6" panels based on 4" capacity.

PANEL WEIGHTS & LENGTHS

Subject to change without notice. Please refer to our website <http://www.artspaninc.ca> for current information.

PRODUCT

Supplier: Artspan Inc.

Edge Profile Wall Panel

Width: 42"

Profile: Flat

Insulation Thickness: 2", 3", 4", 5", 6"

Exterior Facing: 22ga

Interior Facing: 22ga, 24ga, 26ga

Available Finish: Heavy Emboss, Light Emboss

Available Panel Colour: See Website

Horizon Wall Panel

Width: 42"

Profile: Mesa

Insulation Thickness: 2", 3" 4", 5", 6"

Exterior Facing: 22ga, 24ga, 26ga

Interior Facing: 22ga, 24ga, 26ga

Available Finish: Light Emboss

Available Panel Colour: See Website

Skyline Roof Panel

Width: 42"

Profile: Mesa

Insulation Thickness: 2", 3", 4", 5", 6"

Exterior Facing: 22ga, 24ga, 26ga

Interior Facing: 22ga, 24ga, 26ga

Available Finish: Light Emboss interior

Available Panel Colour: See Website

PANEL WEIGHTS (PSF)										
Panel Thickness (in.)	Panel Width (in.)	Steel Gauge (Facer/Liner)								
		26/26	24/26	22/26	26/24	24/24	22/24	26/22	24/22	22/22
2	42	2.23	2.48	2.73	2.48	2.73	2.98	2.73	2.98	3.23
3	42	2.44	2.69	2.94	2.69	2.94	3.19	2.94	3.19	3.44
4	42	2.65	2.90	3.15	2.90	3.15	3.40	3.15	3.40	3.65
5	42	2.85	3.10	3.35	3.10	3.35	3.60	3.35	3.60	3.85
6	42	3.06	3.31	3.56	3.31	3.56	3.81	3.56	3.81	4.06

MAXIMUM PANEL LENGTHS BASED ON COLOUR (ft)										
Panel Thickness (in.)	Panel Width (in.)	Edge 22ga Wall*			Horizon 26ga/26ga Wall			Skyline 24ga/26ga Roof		
		Light	Medium	Dark	Light	Medium	Dark	Light	Medium	Dark
2	42	25'	25'	20'	38'	25'	16'	47'	36'	24'
3	42	30'	30'	20'	45'	35'	25'	50'	38'	30'
4	42	30'	30'	25'	50'	38'	28'	52'	41'	32'
5	42	32'	30'	25'	52'	41'	30'	52'	44'	34'
6	42	32'	30'	25'	52'	44'	32'	52'	47'	36'

*Smooth or Embossed

Light = Regal White **Medium** = Sierra Tan, Parchment, Silver Metallic **Dark** = All others

Based on 5' support spacing for walls & 4' support spacing for roofs

*Smooth or Embossed.

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