



Insulated Panels Load Span Tables

Corle Insulated Panels

Test / Approvals

Complete general specifications, test reports, load span tables and suggested installation details are available upon request.

Type

Structural
Thermal Transmission
Air/Water Infiltration
Factory Mutual 4880
Factory Mutual 4880
Factory Mutual 4881
Factory Mutual 4471
CAN/ULC

ASTME 72
ASTMC 518
ASTME 283/E331
IBC Stds 26-1, 26-3, 8-1, ASTM D 1929
Unlimited Height Wall / Ceiling (Passed)
Exterior Wall Windstorm
Wind Uplift, ASTME 108
S101-04, S102-07, S126-M86



Load Span Tables - Walls

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Allowable Load for All Wall Panels (PSF) Span (FT)

Panel Thickness (IN)	Panel Weight (PSF)	SIMPLE SPAN (FT)								MULTIPLE SPAN (FT)							
		6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0
2"	2.22	49	37	29	23	19				70	54	43	35	29	24	20	
2.5"	2.34	60	45	35	28	23	19			82	64	51	41	34	29	24	21
3"	2.41	70	53	41	33	27	22	19		94	74	59	48	40	33	28	25
4"	2.62	95	72	56	45	37	31	26	22	119	94	76	63	53	45	38	33
5"	2.82	101	77	61	49	40	33	28	24	128	100	81	66	55	47	40	35
6"	2.98	110	84	66	53	44	37	31	27	135	106	86	71	59	50	43	38

- Notes: 1) Spans shown are based on transverse load testing per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
2) Fastening schedules shall be based on project wind load requirements. Fasteners must be approved by AWIP based on the specific end use.
3) Allowable deflection is L/180
4) Facings are 26/26 gauge.

Load Span Tables - Roof

Corle Insulated Panels

Thickness (IN)	Number of Spans	Panel Weight (PSF)	Allowable Load for HR3/CR3 26/26 Roof Panel (PSF) Span (FT)						
			5.0	6.0	7.0	8.0	9.0	10.0	11.0
2.5"	Simple	2.33	56	49	39	30	25	20	17
	Multiple		63	54	44	36	31	26	23
4"	Simple	2.65	95	79	68	59	47	38	32
	Multiple		109	91	76	65	53	45	41
5"	Simple	2.86	120	102	85	76	61	47	41
	Multiple		128	112	98	83	68	60	53

Thickness (IN)	Number of Spans	Panel Weight (PSF)	Allowable Load for HR5 26/26 Roof Panel (PSF) Span (FT)											
			5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	
2.5"	Simple	2.33	81	65	54	44	40	33	26	20	16			
	Multiple		84	70	58	49	44	38	34	28	22			
4"	Simple	2.65	126	101	85	72	61	53	46	41	36	32	27	
	Multiple		128	107	88	77	67	59	53	47	42	39	35	
5"	Simple	2.86	157	128	97	90	78	67	58	51	45	41	37	
	Multiple		161	131	102	96	84	73	65	59	53	48	44	

- Notes: 1) Spans shown are based on deflection and connection strength derived from ASTM E-72 testing. Thermal effect due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
2) Connection pattern assumes one 1/4-14 self tapping fastener at each rib and at each minimum 16 ga. support.
3) Allowable deflection is L/240.

Load Span Tables - Partition

Corle Insulated Panels

Allowable Axial Load Table for 26/26 Interior Liner / Partition Walls
Maximum wall panel height shall be limited as follows:

Panel Thickness (Inches)	Maximum Wall Panel Height (feet)	
	300 plf Axial Load	200 plf Axial Load
4	16	20
5	20	25
6	25	30

Notes:

- 1) Spans shown are based on stress and deflection limits per ASTM E-72 test results.
 - 2) Thermal effects due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
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Axial Load Table - Partition

Corle Insulated Panels

Allowable Axial Load Table for 26/26 Interior Liner / Partition Walls
Maximum wall panel height shall be limited as follows:

Panel Thickness	Allowable Span (L/180)	Allowable Span (L/120)
2"	18' 1"	20' 0"
2.5"	21' 1"	22' 5"
3"	24' 0"	24' 6"
4"	28' 4"	28' 4"
5"	31' 8"	31' 8"
6"	34' 9"	34' 9"

Notes:

- 1) Spans shown are based on stress and deflection limits per ASTM-72 test results.
 - 2) Thermal effects due to temperature differentials have not been considered. Consult your Corle representative for project requirements.
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Disclaimer

All information published and distributed is thought to be reliable and correct. Installation details are meant to represent typical product applications based on standard construction practices. It is the ultimate responsibility of the buyer or his owner or architect to verify that the product(s) selected are suitable for the specific application. In accordance with our ongoing efforts to improve our products, we reserve the right to change any information contained in our publications without notice.