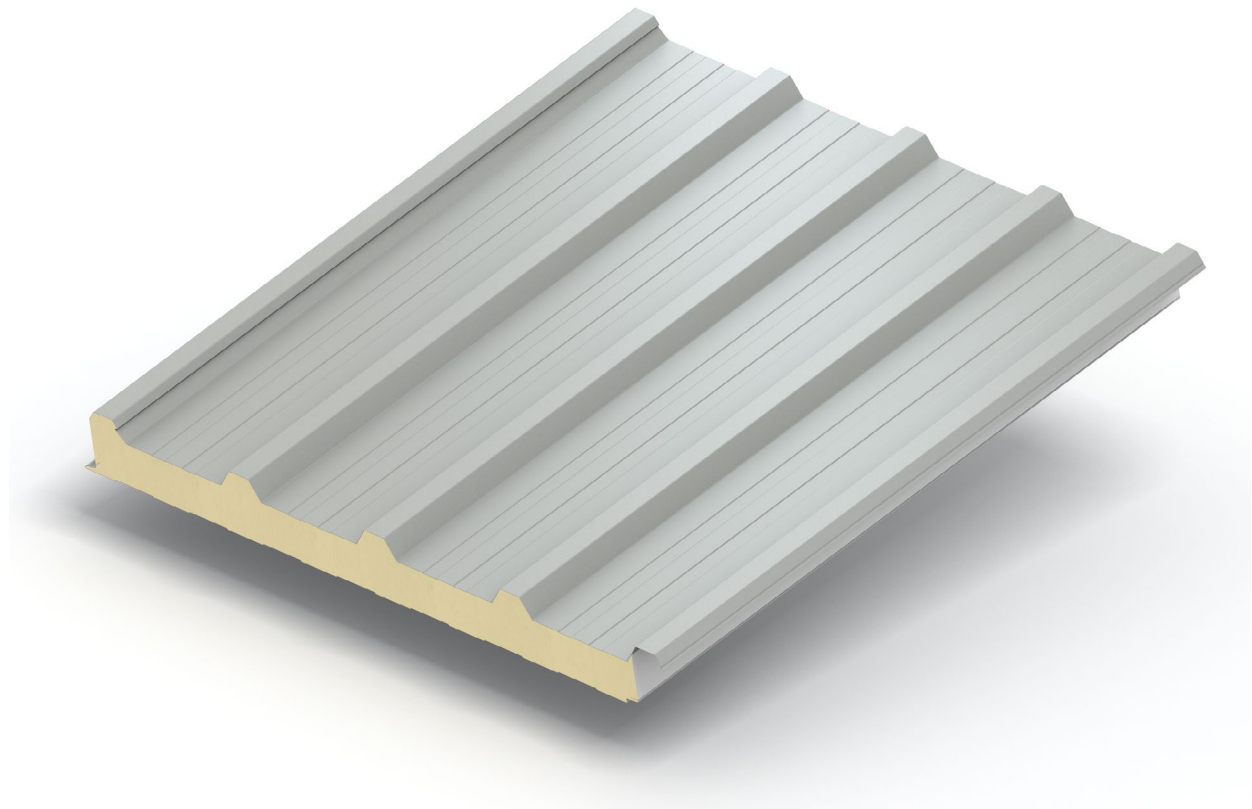


Insulated Panels
New Zealand



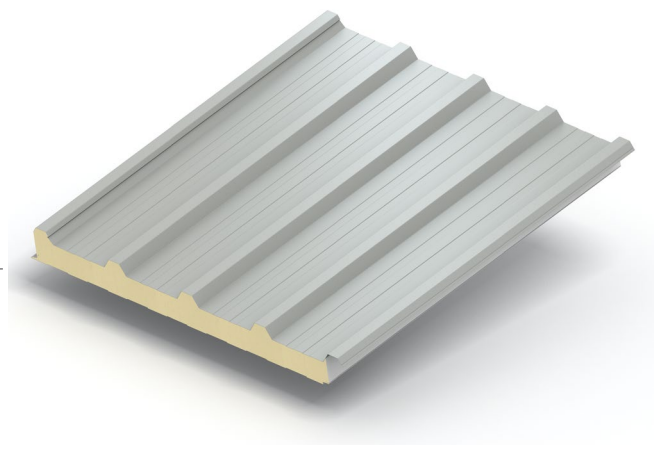
KSN1000FC Five Crown Roof & Wall Panel Product Data Sheet



Product Data Sheet

KSN1000FC Five Crown Roof & Wall Panel

Kingspan roof and wall panel systems present a superior system when compared to conventional multi-part site assembled systems. The panels are quicker to install, require less manual labour and provide guaranteed thermal performance. The KSN1000FC Five Crown Roof & Wall Panel is a through fixed system which can be used for building applications with roof slopes of 3° (after deflection) and above and can be used in wall (vertical or horizontal) applications.



Applications

The Kingspan KSN1000FC Five Crown Roof & Wall Panel is suitable for most new build and refurbishment building applications as a roof and wall element. The steel exterior and interior lining is available in a range of coatings and colours for standard, coastal and high humidity environments.

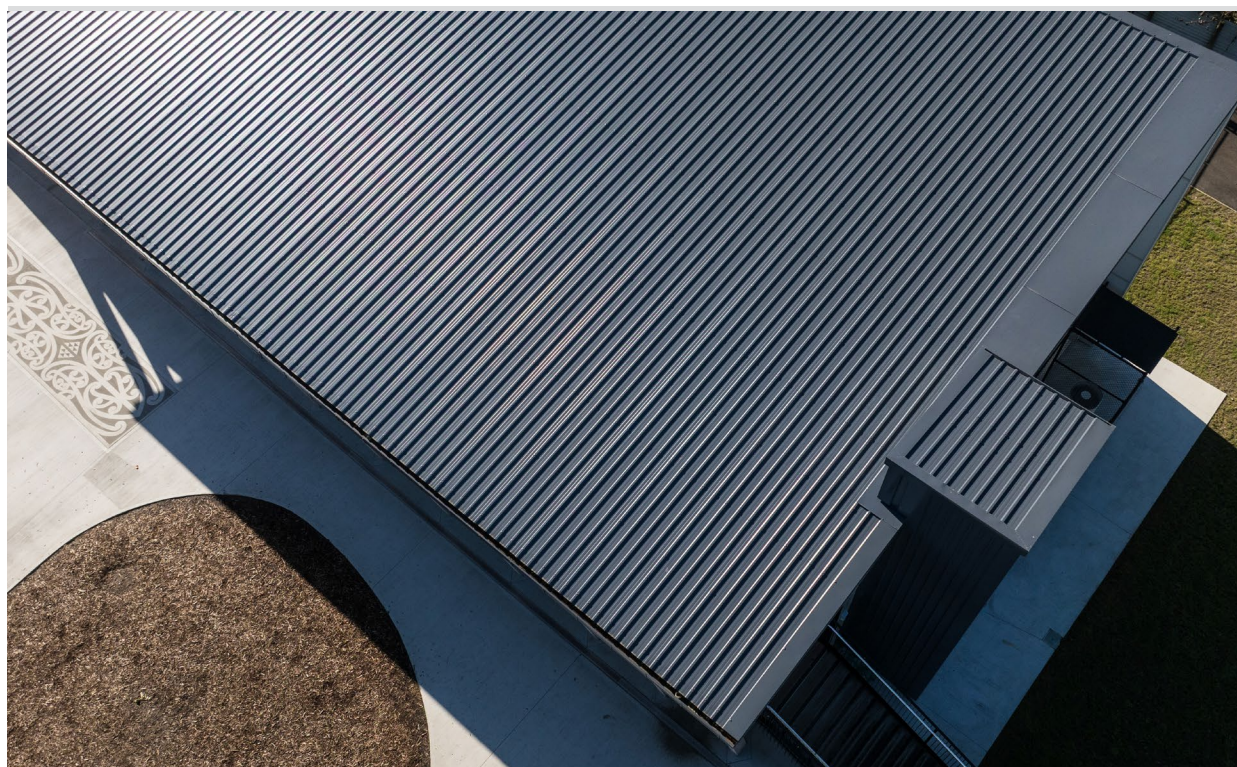
Manufacture

Panels are manufactured in a Kingspan-owned facility in Christchurch, New Zealand. Lead time can vary depending on the product and specification, please contact Kingspan for further information.

Available Lengths

Standard lengths are from 2.4m to 24m.

Factory made cutbacks are available between 0.070m and 0.200m. (Note: foam needs to be removed at site.)



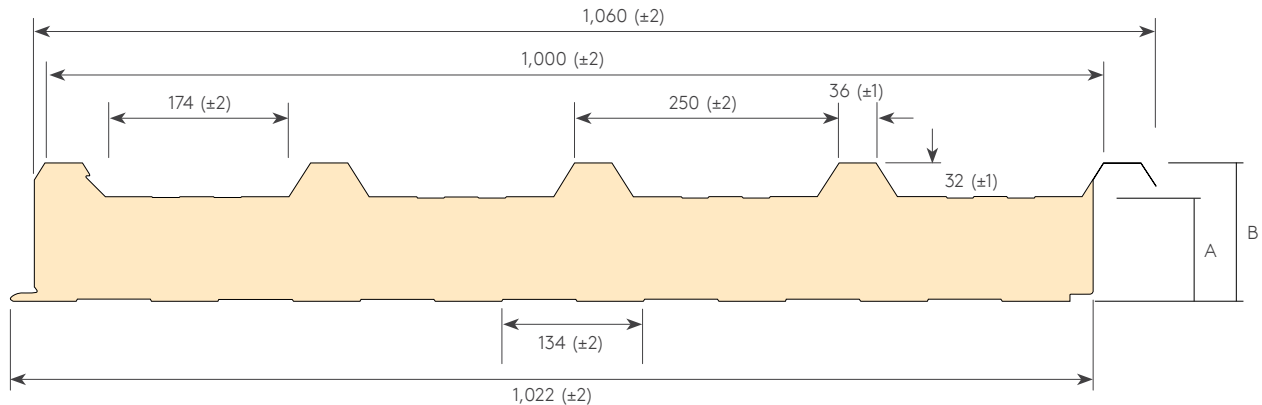
Panel Performance

A - Core Thickness (mm)	50	75	100	125	150
B - Overall Dimension (mm)	82	107	132	157	182
Material R value (m ² .K/W)*	2.33	3.42	4.55	5.89	7.01
Installed R value (m ² .K/W)**	2.45	3.54	4.67	6.01	7.13
Weight (kg/m ²)**	13.0	14.1	15.2	16.3	17.4

* Material R value = the aged thermal value @ 15°C, as independently tested and calculated to the requirements of AS/NZS4859 parts 1&2: 2018. Note this is for the product only before installation.

** Installed R value = the thermal resistance of the installed product plus air films as per NZS 4214.

*** actual weight subject to vary ±10% due to manufacturing and raw material tolerances.



Materials

Exterior Weather Sheet:

- 0.55mm thick Maxam® G300S coated steel to AS1397:2021
- Paint coating in accordance with AS/NZS 2728:2013
- Colours as per the Kingspan Colour brochure available in hard copy and on the website

Insulation Core:

- Polyisocyanurate (PIR), with zero Ozone Depletion Potential (Zero ODP).
- PIR foam is a thermosetting material. It does not melt, flow or drip when exposed to fire. It will form a strong char that helps protect the foam core and prevent flame spread within the panels.

Internal Liner Sheet:

- 0.55mm thick Z275 CP G300S coated steel to AS1397:2021
- Rib Profile
- Paint coating in accordance with AS/NZS 2728:2013
- Colour: Standard Titania
- Other colours available on extended lead time and price

Ancillaries:

Kingspan also provides daylighting systems, profiled foam closers, butyl tapes and other ancillary items.

Acoustic Performance

KSN1000FC Five Crown Roof & Wall Panels have a single figure weighted sound reduction index $R_w = 25$ dB. Results are based on panels with a similar profile and core material.

Frequency (Hz)	125	250	500	1000	2000	4000	STC	R _w
SRI (dB)	17.2	18.2	19.1	24.8	37.3	39.5	21	24

* Please contact Technical Services for project specific support and product specification where $R_w = 26$ dB is required.

Product Tolerances

Length < 3 m	±5 mm
Length > 3 m	±10 mm
Cover Width	±2 mm
Thickness < 100 mm	±2 mm
Thickness > 100 mm	±2%
Squareness	≤0.6% of width

NZGBC
TE KAUNIHERA HANGANGA TAUTAI AO
Member 2024-2025

NZBC Compliance

Kingspan’s Roof & Wall Panels have been used around New Zealand, on many building types for in excess of 15 years.

When designed, used, installed and maintained in accordance with Kingspan standard details, the KSN1000FC Five Crown Roof & Wall Panel is compliant with the following clauses on the NZBC:

B1 Structure — B1.3.1; B1.3.2; B1.3.3(a, f, g, h, j); B1.3.4

B2 Durability — B2.3.1(b)

C3 Fire Affecting Areas Beyond the Fire Source — C3.4(a); C3.5; C3.7

E2 External Moisture — E2.3.1 (roof only); E2.3.2; E2.3.7

E3 Internal Moisture — E3.3.5

F2 Hazardous Building Materials — F2.3.1

H1 Energy Efficiency — H1.3.1



Fire Performance

The KSN1000FC Five Crown Roof & Wall Panel has been rigorously tested to both NZ and international building standards and the standards expected of the insurance industry.

Internal Surface Finish (Walls & Ceiling) (to ISO 9705)

Standard Details

Group 1S

External Radiation (NZBC C.5.8) (to ISO 5660-1)

Building Code Document	Cladding Material Type
NZBC Acceptable Solutions C/AS1 Table 5.1	< 100kW/m ² and < 25 MJ/m ²
NZBC Acceptable Solutions C/AS2 Table C1.3	Type A

Foam Plastic Core (All)

Core meets the requirements of AS 1366.2

Insurance

Kingspan KSN1000FC Five Crown Roof & Wall Panels are approved by FM to the following Approval Standards:

- **FM4880** - Internal wall and ceiling panels without height restriction
(certified name: KSN1000FC)



Insurer approvals are large scale testing regimes that provide objective third party testing, which is underpinned by yearly factory surveillance audits (depending on the region) to verify compliance. Insurer approvals are subject to panel thickness, width, orientation, method of assembly, steel coating and manufacturing facility. Please contact Kingspan for project specific details.

Sprinkler Code NZS 4541:2020

The Sprinkler Standard NZS 4541:2020 contains levels of sprinkler protection required for buildings constructed with “Approved” and “Not Approved” panels - refer to clause 2.12 and Appendix K.

Kingspan’s PIR-cored KSN1000FC Five Crown Roof & Wall Panels are considered ‘Approved’ under the standard, as they have FM approval.

Product Selection Assistance

Sales representatives are available nationwide to answer queries on product options, assist with detailing, spans, colour swatches and other queries. They can also provide early stage budget estimates and co-ordinate the provision of project specifications.

Technical Assistance

Our technical team is available to provide specific advice on panel spans, product specifications, standard and bespoke detailing, panel optimisation, fire wall options, project specific acoustic solutions, panel guarantees, thermal condensation risk calculation along with general building science cladding advice.

Kingspan Technical Services can provide 'side by side' assistance with regard to project detailing, attending design meetings, providing training and undertaking site visits when required.

Guarantees

Kingspan will provide product guarantees on an individual project basis.

Guarantees are typically up to 15 years in a non marine/ geothermal environment. All guarantees are subject to a maintenance regime.

Specialist coatings are available for marine and other more corrosive areas, ie swimming pools. Guarantees will vary for these projects.

Biological

Kingspan panels are normally immune to attack from mould, fungi, mildew, and vermin. No urea or formaldehyde is used in the construction, and the panels are not considered deleterious to health.

Quality and Durability

KSN1000FC Five Crown Roof & Wall Panels are manufactured from the highest quality materials using state-of-the-art production equipment to rigorous quality control standards.

Delivery & Packing

Standard Packing

Protective film is applied to the external face.

Kingspan panels are stacked horizontally.

The number of panels in each pack depends on panel thickness.

Delivery

All deliveries (unless indicated otherwise) are by road transport to project site by flat bed truck for off-loading by crane or fork hoist.

Off-loading is the responsibility of the installer.

Handling guidelines are available from Kingspan Technical Services.

Site Installation Procedure

A site assembly instruction brochure is available from Kingspan Technical Services.



Span Tables

KSN1000FC Five Crown Roof & Wall Panel

Note

The following notes apply to the span tables for both the KSN1000FC Five Crown Roof Panel and the KSN1000FC Five Crown Wall Panel. The building designer (typically the project engineer) should use the following span tables to design the structure to support the panels and ensure the specified panels are not outside of stated capacity, the designer should take into account the environmental factors that apply to the building (wind, snow, internal pressures, localised loads) as they design their structure.

1. Checks must be made on both ULS and SLS capacity of the panels. With changes to AS/NZS 1170.2, SLS load capacity is likely to govern the maximum allowable panel spans
2. If the panels are spanning over more than one support use the 'double span' tables. Note that depending on the specific load and span combination the panels in double span condition may not resist the same SLS load as they would in single span condition
3. The panel is a 'cladding' element that is intended to be fixed to the building structure. The structure (Purlins, Girts or Posts) maybe hot or cold rolled steel or timber, fixing to concrete is impractical. The structural elements and connections must be designed to resist any forces, including wind, internal pressures, localised pressures, snow etc along with any relevant combination of those forces that will be either transferred by or to the panels
4. Values have been calculated in accordance with AS/NZS 1170.0, and also take into account the methods described in EN 14509:2006 titled 'Self-supporting double skin metal face insulating panels - Factory made products - Specifications', taking imposed loads (excluding snow), temperature and creep into account.
5. The serviceability limit state is defined by local buckling, bending or crushing failure at an intermediate support or the exceedance of a specified deflection limit.
6. Deflection limit for pressure loading (inward) is $L/200$ and suction loading (outward) is $L/150$.
7. The allowable steelwork tolerance between bearing panels of adjacent supports is $\pm 5\text{mm}$ or $L/600$, whichever is the least.
8. The total wind suction load resisted by the panel is dependent on the number of fasteners used, the support width as well as the fasteners used, the performance tables are based on a support width of 60mm. A competent person will need to confirm fastener performance in accordance with the appropriate design standards applicable to the building.
9. For load span information for other panel specifications not shown, please contact Kingspan Technical Services.
10. For roofs, the gravity load of the panel is included based on 0.9G upward, 1.2G downward
11. The effects of temperature have been included within the span tables based external surface temperatures of $+65^{\circ}\text{C}$ Summer -5°C Winter and Internal Temperatures of 25°C Summer $+18^{\circ}\text{C}$ Winter (light colour exterior steel). Where a medium or dark coloured panels are selected, it is advised to reduce SLS suction capacity to 90% (medium) and 80% (dark). Buildings being held at lower internal temperatures will require specific calculations.
12. Long-term point loads (such as equipment supported by the panel only) require specific calculations. Loads from PV installations may create significant point loads from wind uplift which must be considered by the PV supplier and the structural engineer.
13. Panel cantilevers at both side and end should be limited to 300mm max. (assuming a backspan of at least 600mm). Beyond this, specific calculations are required, please contact Kingspan.
14. Penetrations through the panels greater than 300mm dia will require additional structural support
15. Snow: in high alpine regions where snow may be on the panel for long periods contact Kingspan Technical for specific calculations

Span Tables — Roof Application

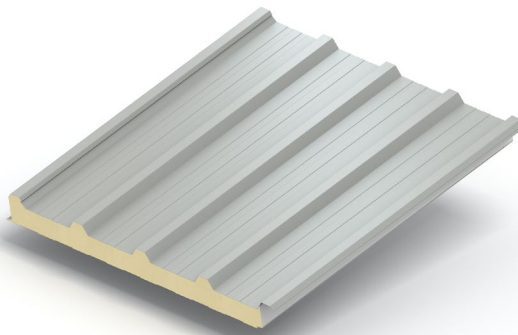
Single Span Condition

Span capability of composite systems can depend on a number of external factors. The following table is based on typical light colour selections. For darker colours contact Kingspan Technical Services.

Panel Thickness (mm)	Load Type	Span L in metres															
		1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8
		Uniformly distributed loads kN/m²															
Ultimate Limit State (ULS)																	
50	Pressure	4.84	4.20	3.70	3.30	2.98	2.71	2.49	2.30	2.13	1.99	1.86	1.69				
	Suction	4.52	3.58	2.92	2.44	2.07	1.78	1.56	1.37	1.23	1.10	1.00	0.91				
75	Pressure	5.87	5.27	4.78	4.37	4.02	3.72	3.47	3.24	3.04	2.87	2.71	2.56	2.35	2.16		
	Suction	5.89	4.70	3.85	3.22	2.74	2.36	2.06	1.82	1.62	1.46	1.32	1.20	1.10	1.01		
100	Pressure	6.86	6.16	5.59	5.11	4.71	4.36	4.06	3.80	3.56	3.36	3.17	3.01	2.86	2.72	2.57	2.38
	Suction	7.16	5.78	4.75	3.98	3.39	2.93	2.56	2.26	2.01	1.80	1.63	1.48	1.36	1.25	1.15	1.07
125	Pressure	7.45	6.69	6.07	5.55	5.11	4.73	4.41	4.12	3.87	3.64	3.44	3.26	3.10	2.95	2.82	2.69
	Suction	7.77	6.80	5.60	4.70	4.00	3.46	3.02	2.67	2.38	2.13	1.93	1.75	1.60	1.47	1.36	1.26
150	Pressure	8.04	7.22	6.54	5.98	5.51	5.11	4.75	4.45	4.17	3.93	3.72	3.52	3.35	3.19	3.04	2.91
	Suction	8.38	7.56	6.40	5.37	4.58	3.96	3.46	3.06	2.72	2.44	2.21	2.01	1.83	1.68	1.55	1.44
Serviceability Limit State (SLS)																	
50	Pressure	3.70	3.00	2.47	2.05	1.72	1.45	1.23	1.04	0.86	0.72						
	Suction	4.52	3.58	2.92	2.44	2.07	1.78	1.56	1.37	1.23	1.10						
75	Pressure	5.43	4.53	3.82	3.25	2.79	2.40	2.08	1.81	1.58	1.39	1.22	1.07				
	Suction	5.89	4.70	3.85	3.22	2.74	2.36	2.06	1.82	1.62	1.46	1.32	1.20				
100	Pressure	6.86	6.13	5.25	4.53	3.94	3.44	3.02	2.66	2.36	2.09	1.86	1.66	1.48	1.32	1.19	1.07
	Suction	7.16	5.78	4.75	3.98	3.39	2.93	2.56	2.26	2.01	1.80	1.63	1.48	1.36	1.25	1.15	1.07
125	Pressure	7.45	6.69	6.07	5.55	5.11	4.55	4.03	3.58	3.19	2.86	2.56	2.30	2.07	1.87	1.69	1.53
	Suction	7.77	6.80	5.60	4.70	4.00	3.46	3.02	2.67	2.38	2.13	1.93	1.75	1.60	1.47	1.36	1.26
150	Pressure	8.04	7.22	6.54	5.98	5.51	5.11	4.75	4.45	4.08	3.67	3.31	2.99	2.71	2.46	2.24	2.04
	Suction	8.38	7.56	6.40	5.37	4.58	3.96	3.46	3.06	2.72	2.44	2.21	2.01	1.83	1.68	1.55	1.44

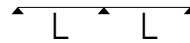
Please refer to notes on page 6.

NOTE: Both ULS and SLS should be checked, as a general rule SLS loads are likely to govern.



Span Tables — Roof Application

Double Span Condition



Span capability of composite systems can depend on a number of external factors. The following table is based on typical light colour selections. For darker colours contact Kingspan Technical Services.

Panel Thickness (mm)	Load Type	Span L in metres															
		1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8
		Uniformly distributed loads kN/m²															
Ultimate Limit State (ULS)																	
50	Pressure	4.84	4.20	3.70	3.30	2.98	2.71	2.49	2.30	2.13	1.99	1.86	1.69				
	Suction	4.52	3.58	2.92	2.44	2.07	1.78	1.56	1.37	1.23	1.10	1.00	0.91				
75	Pressure	5.87	5.27	4.78	4.37	4.02	3.72	3.47	3.24	3.04	2.87	2.71	2.56	2.35	2.16		
	Suction	5.89	4.70	3.85	3.22	2.74	2.36	2.06	1.82	1.62	1.46	1.32	1.20	1.10	1.01		
100	Pressure	6.86	6.16	5.59	5.11	4.71	4.36	4.06	3.80	3.56	3.36	3.17	3.01	2.86	2.72	2.57	2.38
	Suction	7.16	5.78	4.75	3.98	3.39	2.93	2.56	2.26	2.01	1.80	1.63	1.48	1.36	1.25	1.15	1.07
125	Pressure	7.45	6.69	6.07	5.55	5.11	4.73	4.41	4.12	3.87	3.64	3.44	3.26	3.10	2.95	2.82	2.69
	Suction	7.77	6.80	5.60	4.70	4.00	3.46	3.02	2.67	2.38	2.13	1.93	1.75	1.60	1.47	1.36	1.26
150	Pressure	8.04	7.22	6.54	5.98	5.51	5.11	4.75	4.45	4.17	3.93	3.72	3.52	3.35	3.19	3.04	2.91
	Suction	8.38	7.56	6.40	5.37	4.58	3.96	3.46	3.06	2.72	2.44	2.21	2.01	1.83	1.68	1.55	1.44
Serviceability Limit State (SLS)																	
50	Pressure	2.40	2.15	1.95	1.78	1.58	1.39	1.24	1.08	0.88	0.73						
	Suction	2.55	2.31	2.12	1.94	1.73	1.56	1.42	1.30	1.20	1.10						
75	Pressure	3.18	2.84	2.53	2.20	1.94	1.72	1.53	1.38	1.24	1.03	0.86	0.72				
	Suction	3.32	2.91	2.54	2.25	2.02	1.83	1.67	1.54	1.42	1.32	1.23	1.16				
100	Pressure	3.95	3.38	2.92	2.56	2.26	2.01	1.80	1.62	1.47	1.33	1.12	0.94	0.79	0.67		
	Suction	3.66	3.16	2.77	2.46	2.21	2.00	1.83	1.69	1.56	1.45	1.36	1.28	1.21	1.14		
125	Pressure	4.34	3.79	3.29	2.88	2.55	2.28	2.04	1.85	1.68	1.53	1.38	1.15	0.97	0.82	0.70	
	Suction	3.85	3.33	2.93	2.60	2.34	2.12	1.94	1.79	1.66	1.55	1.45	1.36	1.29	1.22	1.16	
150	Pressure	4.73	4.18	3.63	3.19	2.83	2.53	2.27	2.06	1.87	1.71	1.56	1.35	1.13	0.96	0.81	0.69
	Suction	3.98	3.45	3.03	2.70	2.43	2.20	2.02	1.86	1.72	1.61	1.51	1.42	1.34	1.27	1.21	1.15

Please refer to notes on page 6.

NOTE: Both ULS and SLS should be checked, as a general rule SLS loads are likely to govern.



Span Tables — Wall Application

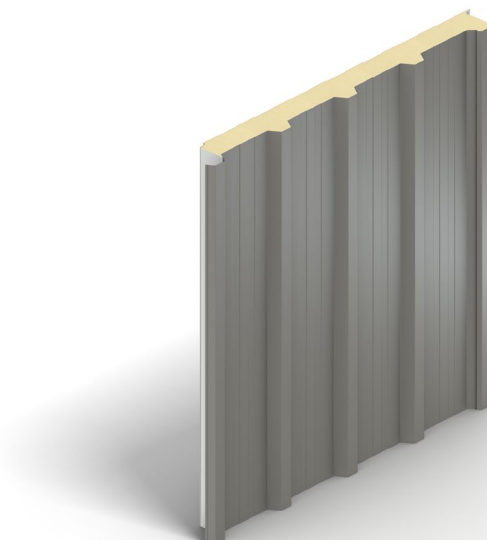
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		1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8
		Uniformly distributed loads kN/m²															
Ultimate Limit State (ULS)																	
50	Pressure	4.96	4.33	3.83	3.43	3.11	2.84	2.62	2.42	2.26	2.11	1.99	1.88	1.77	1.66	1.53	1.42
	Suction	4.45	3.51	2.85	2.36	1.98	1.69	1.46	1.28	1.13	1.00	0.90	0.81	0.73	0.66	0.60	0.55
75	Pressure	6.01	5.41	4.91	4.51	4.16	3.86	3.60	3.38	3.18	3.00	2.85	2.70	2.57	2.44	2.26	2.10
	Suction	5.81	4.62	3.76	3.12	2.64	2.26	1.96	1.71	1.51	1.34	1.20	1.08	0.98	0.89	0.81	0.75
100	Pressure	7.01	6.31	5.74	5.26	4.85	4.51	4.21	3.94	3.71	3.51	3.32	3.16	3.01	2.87	2.74	2.63
	Suction	7.01	5.68	4.64	3.87	3.27	2.81	2.43	2.13	1.88	1.68	1.50	1.35	1.22	1.11	1.02	0.93
125	Pressure	7.61	6.85	6.23	5.71	5.27	4.89	4.57	4.28	4.03	3.80	3.60	3.42	3.26	3.11	2.98	2.85
	Suction	7.61	6.69	5.48	4.57	3.87	3.33	2.89	2.53	2.24	1.99	1.78	1.61	1.46	1.33	1.21	1.11
150	Pressure	8.21	7.39	6.72	6.16	5.68	5.28	4.92	4.62	4.35	4.10	3.89	3.69	3.52	3.36	3.21	3.08
	Suction	8.21	7.39	6.26	5.23	4.44	3.81	3.31	2.90	2.57	2.29	2.05	1.85	1.67	1.52	1.39	1.28
Serviceability Limit State (SLS)																	
50	Pressure	4.96	4.33	3.83	3.43	3.11	2.84	2.62	2.35	2.05	1.80						
	Suction	4.45	3.51	2.85	2.36	1.98	1.69	1.46	1.28	1.13	1.00						
75	Pressure	6.01	5.41	4.91	4.51	4.16	3.86	3.60	3.38	3.18	3.00	2.72	2.42				
	Suction	5.81	4.62	3.76	3.12	2.64	2.26	1.96	1.71	1.51	1.34	1.20	1.08				
100	Pressure	7.01	6.31	5.74	5.26	4.85	4.51	4.21	3.94	3.71	3.51	3.32	3.16	3.01	2.87	2.67	2.43
	Suction	7.01	5.68	4.64	3.87	3.27	2.81	2.43	2.13	1.88	1.68	1.50	1.35	1.22	1.11	1.02	0.93
125	Pressure	7.61	6.85	6.23	5.71	5.27	4.89	4.57	4.28	4.03	3.80	3.60	3.42	3.26	3.11	2.98	2.85
	Suction	7.61	6.69	5.48	4.57	3.87	3.33	2.89	2.53	2.24	1.99	1.78	1.61	1.46	1.33	1.21	1.11
150	Pressure	8.21	7.39	6.72	6.16	5.68	5.28	4.92	4.62	4.35	4.10	3.89	3.69	3.52	3.36	3.21	3.08
	Suction	8.21	7.39	6.26	5.23	4.44	3.81	3.31	2.90	2.57	2.29	2.05	1.85	1.67	1.52	1.39	1.28

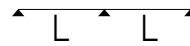
Please refer to notes on page 6.

NOTE: Both ULS and SLS should be checked, as a general rule SLS loads are likely to govern.



Span Tables — Wall Application

Double Span Condition

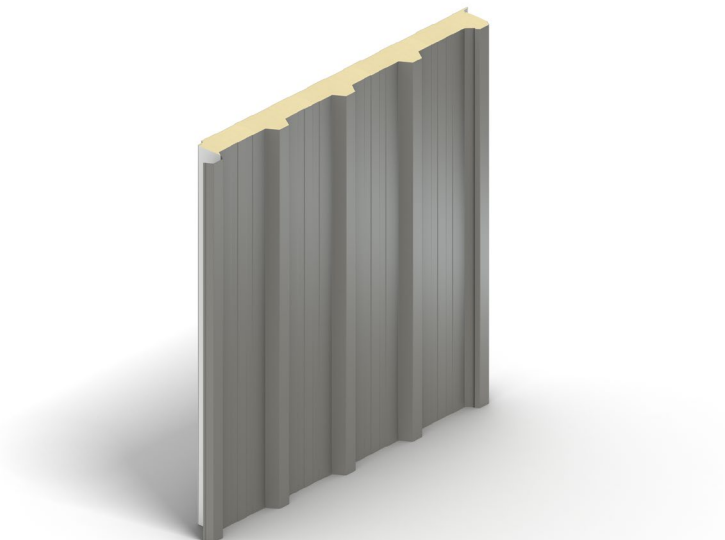


Span capability of composite systems can depend on a number of external factors. The following table is based on typical light colour selections. For darker colours contact Kingspan Technical Services.

Panel Thickness (mm)	Load Type	Span L in metres															
		1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8
		Uniformly distributed loads kN/m²															
Ultimate Limit State (ULS)																	
50	Pressure	4.96	4.33	3.83	3.43	3.11	2.84	2.62	2.42	2.26	2.11	1.99	1.88	1.77	1.66	1.53	1.42
	Suction	4.45	3.51	2.85	2.36	1.98	1.69	1.46	1.28	1.13	1.00	0.90	0.81	0.73	0.66	0.60	0.55
75	Pressure	6.01	5.41	4.91	4.51	4.16	3.86	3.60	3.38	3.18	3.00	2.85	2.70	2.57	2.44	2.26	2.10
	Suction	5.81	4.62	3.76	3.12	2.64	2.26	1.96	1.71	1.51	1.34	1.20	1.08	0.98	0.89	0.81	0.75
100	Pressure	7.01	6.31	5.74	5.26	4.85	4.51	4.21	3.94	3.71	3.51	3.32	3.16	3.01	2.87	2.74	2.63
	Suction	7.01	5.68	4.64	3.87	3.27	2.81	2.43	2.13	1.88	1.68	1.50	1.35	1.22	1.11	1.02	0.93
125	Pressure	7.61	6.85	6.23	5.71	5.27	4.89	4.57	4.28	4.03	3.80	3.60	3.42	3.26	3.11	2.98	2.85
	Suction	7.61	6.69	5.48	4.57	3.87	3.33	2.89	2.53	2.24	1.99	1.78	1.61	1.46	1.33	1.21	1.11
150	Pressure	8.21	7.39	6.72	6.16	5.68	5.28	4.92	4.62	4.35	4.10	3.89	3.69	3.52	3.36	3.21	3.08
	Suction	8.21	7.39	6.26	5.23	4.44	3.81	3.31	2.90	2.57	2.29	2.05	1.85	1.67	1.52	1.39	1.28
Serviceability Limit State (SLS)																	
50	Pressure	2.66	2.39	2.17	1.99	1.84	1.65	1.49	1.35	1.15	0.98						
	Suction	2.42	2.19	1.99	1.81	1.60	1.43	1.29	1.17	1.07	0.99						
75	Pressure	3.47	3.12	2.83	2.52	2.25	2.03	1.84	1.68	1.54	1.34	1.15	0.99				
	Suction	3.19	2.77	2.40	2.12	1.88	1.69	1.53	1.40	1.28	1.18	1.10	1.02				
100	Pressure	4.28	3.75	3.29	2.92	2.62	2.36	2.15	1.97	1.81	1.67	1.46	1.26	1.09	0.96		
	Suction	3.51	3.01	2.62	2.31	2.06	1.85	1.68	1.54	1.41	1.31	1.21	1.13	1.06	0.99		
125	Pressure	4.69	4.20	3.70	3.29	2.95	2.67	2.44	2.23	2.06	1.91	1.77	1.52	1.31	1.15	1.00	
	Suction	3.69	3.17	2.77	2.44	2.18	1.96	1.78	1.63	1.50	1.39	1.29	1.20	1.13	1.06	1.00	
150	Pressure	5.11	4.58	4.08	3.64	3.27	2.97	2.71	2.48	2.29	2.13	1.98	1.77	1.52	1.33	1.14	0.99
	Suction	3.81	3.28	2.86	2.53	2.26	2.03	1.85	1.69	1.55	1.44	1.34	1.25	1.17	1.10	1.04	0.98

Please refer to notes on page 6.

NOTE: Both ULS and SLS should be checked, as a general rule SLS loads are likely to govern.



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