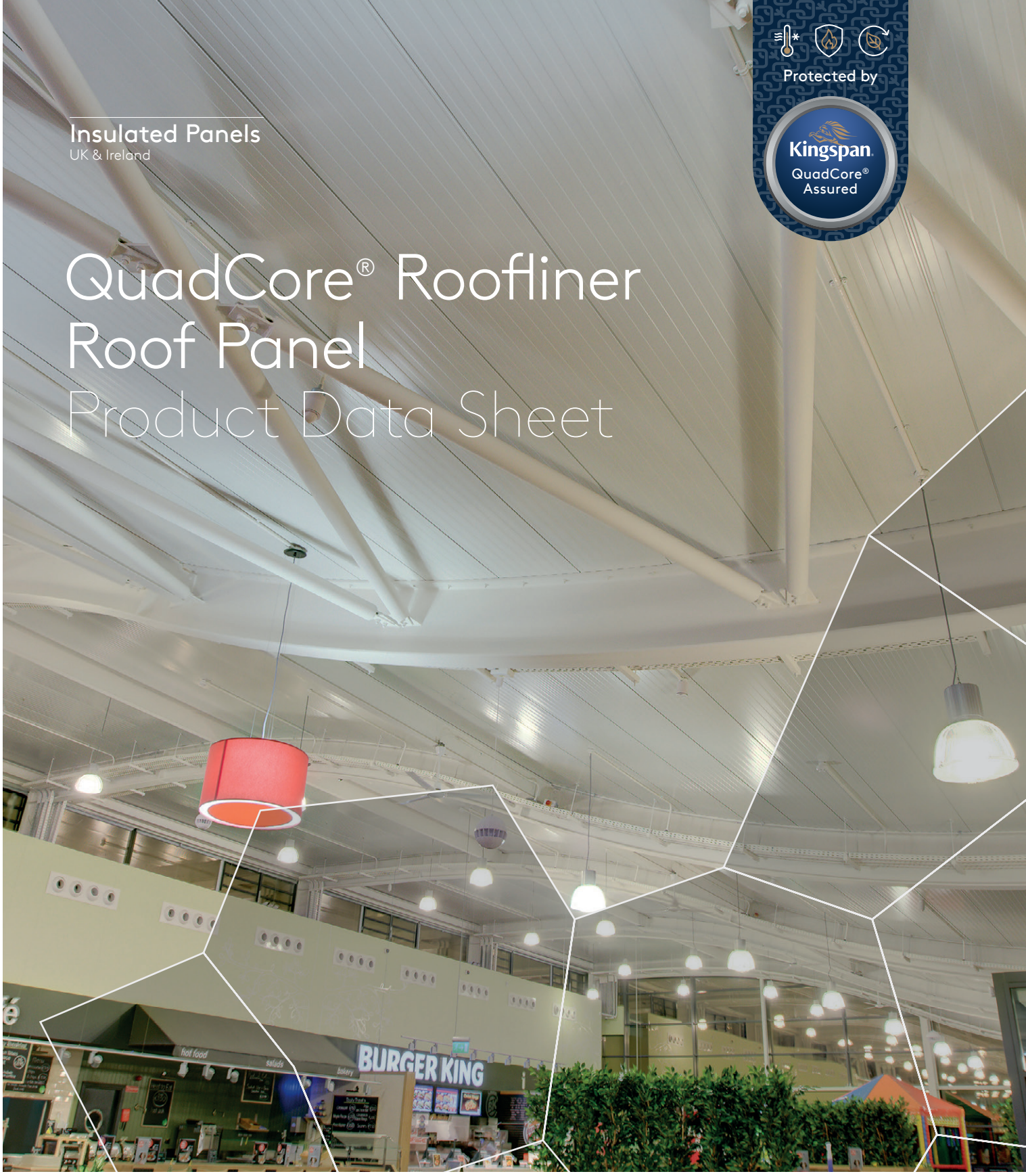
Insulated Panels
UK & Ireland

Protected by
Kingspan
QuadCore®
Assured

QuadCore® Roofliner Roof Panel

Product Data Sheet



POWERED BY
QuadCore®
TECHNOLOGY

Kingspan®

Product Data

Applications

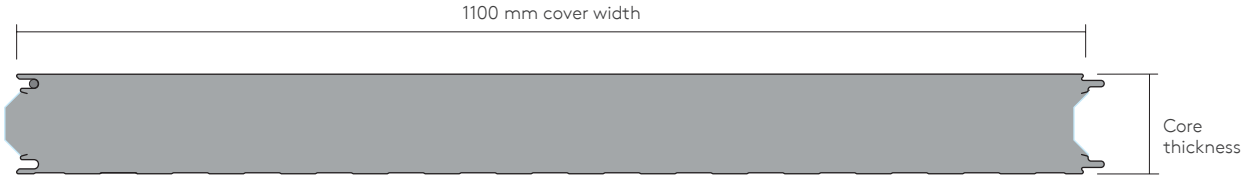
QuadCore® Roofliner Roof Panel system is to be used as an insulated composite roof deck under site applied single-ply membranes or fully supported or self-supported aluminium, copper, zinc and stainless steel cladding systems.

Flat or pitched finished roof slopes to suit the membrane and or metal standing seam roof system or curved (convex and concave) roofs with a radius greater than 25 metres (see 'Panel Side Joint').

Available Lengths

Standard Lengths (m)	1.8 - 14.5
Longer Lengths (non-standard) (m)	14.5 - 21.0
Shorter Lengths (non-standard) (m)	Below 1.8

Note: Additional costs and transport restrictions may apply for non-standard lengths. All lengths may change for export (outside of the UK & Ireland).



Dimensions, Weight & Thermal Performance

Core Thickness (mm)	50	60	80	100	125	150	175	200	220
U-Value (W/m^2K)	0.38	0.31	0.23	0.18	0.15	0.12	0.10	0.09	0.08
Weight (kg/m^2)	11.1	11.5	12.3	13.0	14.0	14.9	15.9	16.8	17.6

Notes: These values are in accordance with BS EN 14509, calculated using Finite Element Analysis, and take into account any thermal bridging through the longitudinal joint. Shaded area denotes typical thicknesses for temperature controlled applications. The U-values have been calculated using an aged thermal conductivity value of 0.018 W/mK.

Product Data

Insulation Core

QuadCore® Roofliner Roof Panels are manufactured with a HCFC, CFC and HFC free QuadCore® insulation core.

POWERED BY QuadCore® TECHNOLOGY

Profiles

The external sheet is flat and internal liner is profiled to the Equi-Bead profile.

Panel Side Joint

Tongue and groove joint inter-fit achieves excellent thermal performance. At less than 50 metres radius, the joint should have site applied Premier Sealants SGV20 PVC tape of appropriate size to suit gap between joint.

Contact Kingspan Tech-eXchange for more information.

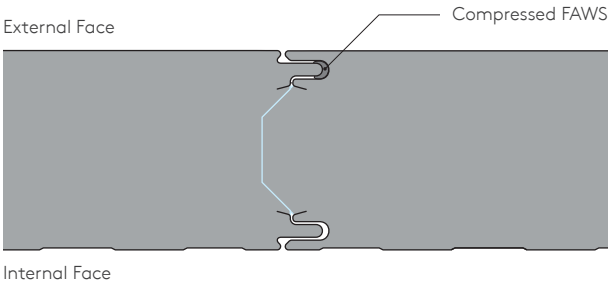
Panel End

All panels are produced flush-ended. It is recommended that panels are used in continuous lengths from ridge to eaves with no end joints. However, where an end lap must be used the panels must be butt-jointed to each other and sealed with continuous self-adhesive film backed butyl mastic tape on the external face and an internal air seal.

Contact Kingspan Tech-eXchange for more information.

Factory Applied Weather Seals (FAWS)

Factory applied side joint seal is applied in the female joint on the external face side. Not applicable to curved panels with a radius under 50 metres.



Certification and Testing

Reaction to Fire

QuadCore® Roofliner Roof Panels are classified B-s1,d0, when tested on the internal face of the product, according to the European Reaction to Fire classification system (Euroclasses) BS EN 13501-1: 2018 under the certified name KS1100RL when using the following internal liners:

- CLEAN*safe* 15, CLEAN*safe* 25, CLEAN*safe* 55, CLEAN*safe* 120 and AQUA*safe* 55.

Please contact Kingspan Tech-eXchange for information relating to the external face.

Roof Applications

QuadCore® Roofliner Roof Panels are tested to:

- BROOF(t4) to BS EN 13501-5: 2016 under the certified name KS1100RL for panel thicknesses 50 - 220 mm and roof pitch 0 - 10°.

Please contact Kingspan Tech-eXchange for information relating to the specific arrangement required for BROOF(t4) classification.

Fire Resistance

Fire resistance classifications are subject to panel thickness, orientation, method of assembly, and steel coating.

Please contact Kingspan Tech-eXchange for project specific details.

Environmental

Kingspan Insulated Panels produced in the UK and Ireland are certified to BES 6001 (Framework Standard for the Responsible Sourcing of Construction Products) 'Good'. QuadCore® insulated panel systems have Environmental Product Declarations in accordance with the requirements of EN 15804 + A2: 2019.

In addition, facilities located in Kingscourt, Holywell and Sherburn generate renewable energy onsite which contributes to that sites energy mix.

Recycled content calculations are available for all QuadCore® products via technical services. Kingspan insulated panels can directly contribute to BREEAM® / LEED® credits.

Air Leakage

An air leakage rate of $3m^3/hr/m^2$ at 50Pa or less can be achieved when using Kingspan insulated roof and wall panels.

For information on detailing required to achieve lower air leakage rates please contact Kingspan Tech-eXchange.

Product Data

Acoustic

Sound Reduction Index (SRI)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
SRI (dB)	20	15	17	23	18	25	40	46

QuadCore® Roofliner Roof Panels have a single figure weighted sound reduction R_W = 24dB. Results are based on panels of similar profile and core material.

Materials

Substrate

Metallic protected steel to BS EN 10346: 2015.

Please contact Kingspan Tech-eXchange for information on other substrates.

Coatings – External Weather Sheet

- Kingspan XL Forté: For mechanical fixing of single skin sheet or single ply membrane.
- Kingspan CLEAN*safe* 15: For fully adhered single ply membranes.

Reverse side of sheet coated with a light grey polyester coating.

For Reaction to Fire performance of external weather sheets please contact Kingspan Tech-eXchange.

Coatings – Internal Liner Sheet

- Kingspan CLEAN*safe* 15: The coating has been developed for use as the internal lining of insulated panels. Standard colour is “bright white” with an easily cleaned surface.
- Kingspan CLEAN*safe* 120: The coating has been developed for use as the internal lining of insulated panels where a high level of cleanliness and hygiene is required, and the panels are to be cleaned down on a regular basis.
- Kingspan AQUA*safe* 55: The coating has been developed for use as the internal lining of insulated panels to swimming pool internal environments.

For Reaction to Fire performance of internal liners please see Certification and Testing section.

Product Tolerances

Cut to Length	± 5 mm
Cover Width	± 2 mm
Thickness (Core ≤ 100 mm)	± 2 mm
Thickness (Core > 100 mm)	± 2%
End Square	± 3 mm

Quality & Durability

QuadCore® Roofliner Roof Panels are manufactured from the highest quality materials, using state of the art production equipment to rigorous quality control standards, complying with BS EN ISO 9001 standard, ensuring long term reliability and service life. The panels are also being manufactured under Environmental Management System Certification BS EN ISO 14001, Energy Management System Certification BS EN ISO 50001 and Occupational Health and Safety Certification BS EN ISO 45001 and Compliance Management Systems BS EN ISO 37301.

QuadCore® Roofliner Roof Panels are CE marked to BS EN 14509: 2013.

CE

Warranty

QuadCore® Assured Panel Warranty

- 25 years thermal performance
- 25 years fire performance
- 25 years structural performance
- 25 years environmental performance

Product Data

Packing

QuadCore® Roofliner Roof Panels are stacked horizontally with facing sheets upward. The top and sides are protected by either cardboard or polystyrene and spiral wrap stretch polyfilm.

Core Thickness (mm)	50	60	80	100	125	150	175	200	220
Panels per Pack	25	21	16	13	10	8	7	6	5

Note: Applies to UK pack sizes. Please contact Kingspan Tech-eXchange for export information.

Sea Freight

Fully timber crated packs are available on projects requiring delivery by sea freight shipping, at additional costs. Alternatively, steel containers can be used. Special loading charges apply.

Delivery

All deliveries (unless indicated otherwise) are by road transport to project site. Off-loading is the responsibility of the client.

Site Installation Procedure

Site assembly instructions and construction details are available from Kingspan Tech-eXchange.

Product Data: Load / Span Tables

QuadCore® Roofliner Roof Panel with 10 kg/m² Permanent Load.
Load / span tables (to be compared against calculated characteristic (i.e., unfactored) wind load values.

Single Span

Core Thickness (mm)	Load Type	Uniformly distributed imposed load (kN/m²)																																	
		Span (m)																																			
		0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
50	Pressure	6.93	4.87	3.61	2.76	2.15	1.70	1.35	1.07	0.85	0.68	0.53	0.41	0.31	0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Suction	7.65	5.76	4.62	3.87	3.33	2.92	2.60	2.35	2.07	1.80	1.56	1.34	1.16	1.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	Pressure	8.52	6.05	4.55	3.54	2.81	2.26	1.83	1.49	1.22	1.00	0.82	0.66	0.54	0.43	0.34	0.26	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Suction	9.17	6.90	5.54	4.63	3.98	3.49	3.11	2.81	2.56	2.27	2.00	1.77	1.58	1.39	1.22	1.08	0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	Pressure	11.59	8.43	6.44	5.10	4.13	3.40	2.83	2.37	1.99	1.69	1.43	1.21	1.03	0.87	0.74	0.62	0.52	0.43	0.36	0.29	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-
	Suction	12.21	9.18	7.36	6.15	5.28	4.63	4.13	3.72	3.39	3.12	2.88	2.57	2.30	2.07	1.87	1.69	1.54	1.40	1.28	1.16	1.05	-	-	-	-	-	-	-	-	-	-	-	-	-
100	Pressure	14.61	10.82	8.34	6.67	5.47	4.56	3.84	3.27	2.80	2.41	2.08	1.80	1.56	1.35	1.17	1.02	0.88	0.77	0.66	0.57	0.49	0.42	0.35	0.29	0.24	0.19	-	-	-	-	-	-	-	-
	Suction	15.24	11.45	9.18	7.67	6.59	5.77	5.14	4.64	4.22	3.88	3.59	3.34	3.07	2.77	2.51	2.28	2.08	1.90	1.73	1.59	1.46	1.35	1.25	1.16	1.08	1.01	-	-	-	-	-	-	-	-
125	Pressure	16.58	12.38	9.86	8.18	6.98	6.02	5.13	4.41	3.82	3.33	2.92	2.56	2.26	1.99	1.76	1.55	1.38	1.22	1.08	0.95	0.84	0.74	0.65	0.57	0.50	0.44	0.38	0.33	0.28	0.24	0.20	-	-
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.18	4.72	4.34	4.01	3.74	3.50	3.29	3.08	2.76	2.49	2.25	2.05	1.88	1.73	1.60	1.48	1.37	1.28	1.20	1.12	1.06	1.00	0.94	0.89	-	-
150	Pressure	16.57	12.37	9.85	8.17	6.97	6.07	5.37	4.81	4.35	3.97	3.64	3.35	2.98	2.65	2.37	2.12	1.90	1.70	1.53	1.37	1.23	1.10	0.99	0.89	0.79	0.71	0.63	0.56	0.50	0.44	0.39	0.34	0.30
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.18	4.73	4.34	4.02	3.74	3.50	3.29	3.11	2.94	2.80	2.56	2.33	2.14	1.96	1.81	1.68	1.56	1.45	1.36	1.27	1.20	1.13	1.07	1.01	0.96	0.91
175	Pressure	16.56	12.36	9.84	8.16	6.96	6.06	5.36	4.80	4.34	3.96	3.63	3.36	3.12	2.91	2.72	2.56	2.41	2.20	1.99	1.81	1.64	1.48	1.34	1.22	1.10	1.00	0.90	0.82	0.74	0.67	0.60	0.54	0.48
	Suction	16.95	12.75	10.23	8.55	7.35	6.45	5.75	5.19	4.73	4.35	4.03	3.75	3.51	3.30	3.12	2.95	2.81	2.67	2.55	2.36	2.17	2.00	1.85	1.72	1.60	1.50	1.41	1.32	1.24	1.17	1.11	1.05	1.00
200	Pressure	12.79	9.53	7.57	6.27	5.34	4.64	4.10	3.66	3.31	3.01	2.76	2.54	2.36	2.19	2.05	1.92	1.81	1.71	1.61	1.53	1.45	1.38	1.31	1.25	1.20	1.11	1.01	0.93	0.85	0.77	0.71	0.64	0.59
	Suction	13.20	9.94	7.98	6.68	5.75	5.05	4.51	4.07	3.72	3.42	3.17	2.95	2.77	2.60	2.46	2.33	2.22	2.12	2.02	1.94	1.86	1.79	1.72	1.66	1.61	1.56	1.51	1.42	1.34	1.27	1.20	1.13	1.08
220	Pressure	12.78	9.52	7.56	6.26	5.33	4.63	4.09	3.65	3.30	3.00	2.75	2.54	2.35	2.19	2.04	1.92	1.80	1.70	1.60	1.52	1.44	1.37	1.31	1.25	1.19	1.14	1.09	1.05	1.00	0.95	0.87	0.80	0.73
	Suction	13.21	9.95	7.99	6.69	5.76	5.06	4.51	4.08	3.72	3.43	3.18	2.96	2.78	2.61	2.47	2.34	2.23	2.12	2.03	1.95	1.87	1.80	1.73	1.67	1.62	1.56	1.52	1.47	1.41	1.33	1.26	1.19	1.13

1 Values have been calculated using the method described in BS EN 14509: 2013, for medium coloured panels.
2 The following deflection limits have been used:
  - Short term pressure loading $^{L}/_{200}$.
  - Short term suction loading $^{L}/_{150}$.
  - Long term loading $^{L}/_{100}$.
3 All panel thicknesses have been calculated with a minimum end support width of 50 mm and intermediate support width of 50 mm. Larger support widths are possible.
4 The actual wind suction resisted by the panel is dependent upon the number of fasteners and the material of the supporting element.
5 The fastener calculation should be carried out in accordance with the appropriate standards.
6 For intermediate values linear interpolation may be used.
7 The allowable steelwork tolerance between bearing planes of adjacent supports is ±5 mm.

Product Data: Load / Span Tables

QuadCore® Roofliner Roof Panel with 10 kg/m² Permanent Load.
Load / span tables (to be compared against calculated characteristic (i.e., unfactored) wind load values.

Double Span

Core Thickness (mm)	Load Type	Uniformly distributed imposed load (kN/m²)																																
		Span (m)																																
		0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
50	Pressure	6.99	4.97	3.76	2.96	2.40	1.98	1.66	1.41	1.20	1.03	0.89	0.77	0.67	0.58	0.51	0.44	0.38	0.32	0.28	0.23	0.19	0.16	-	-	-	-	-	-	-	-	-	-	-
	Suction	7.65	5.76	4.62	3.87	3.33	2.92	2.60	2.35	2.15	1.97	1.83	1.69	1.54	1.40	1.28	1.18	1.09	1.01	0.93	0.87	0.81	0.75	-	-	-	-	-	-	-	-	-	-	-
60	Pressure	8.57	6.14	4.68	3.72	3.03	2.52	2.13	1.82	1.57	1.37	1.19	1.05	0.92	0.81	0.72	0.63	0.56	0.49	0.43	0.38	0.33	0.29	0.25	0.21	0.18	-	-	-	-	-	-	-	-
	Suction	9.17	6.90	5.54	4.63	3.98	3.49	3.11	2.81	2.56	2.36	2.18	2.03	1.90	1.74	1.60	1.47	1.36	1.25	1.14	1.05	0.96	0.89	0.83	0.77	0.72	-	-	-	-	-	-	-	-
80	Pressure	11.59	8.50	6.55	5.25	4.33	3.64	3.10	2.68	2.34	2.06	1.82	1.62	1.44	1.29	1.16	1.04	0.94	0.85	0.76	0.69	0.62	0.56	0.50	0.45	0.41	0.36	0.32	0.29	0.25	0.22	0.19	0.16	-
	Suction	12.21	9.18	7.36	6.15	5.28	4.63	4.13	3.72	3.39	3.12	2.88	2.69	2.51	2.36	2.16	1.94	1.75	1.59	1.45	1.33	1.22	1.13	1.05	0.98	0.91	0.85	0.80	0.76	0.71	0.67	0.64	0.61	-
100	Pressure	14.61	10.82	8.43	6.80	5.64	4.77	4.10	3.56	3.13	2.77	2.46	2.21	1.98	1.79	1.62	1.47	1.34	1.22	1.11	1.02	0.93	0.85	0.78	0.71	0.65	0.60	0.54	0.50	0.45	0.41	0.37	0.34	0.30
	Suction	15.24	11.45	9.18	7.67	6.59	5.77	5.14	4.64	4.22	3.88	3.59	3.34	3.12	2.92	2.59	2.32	2.10	1.90	1.73	1.59	1.46	1.35	1.25	1.16	1.08	1.02	0.95	0.90	0.85	0.80	0.76	0.72	0.68
125	Pressure	16.58	12.38	9.86	8.18	6.98	6.08	5.29	4.67	4.13	3.67	3.29	2.96	2.68	2.43	2.22	2.03	1.86	1.71	1.57	1.45	1.33	1.23	1.14	1.05	0.97	0.90	0.83	0.77	0.71	0.66	0.61	0.56	0.51
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.16	4.64	4.22	3.87	3.58	3.32	3.11	2.92	2.75	2.49	2.25	2.05	1.88	1.73	1.60	1.48	1.37	1.28	1.20	1.12	1.06	1.00	0.94	0.89	0.85	0.80
150	Pressure	16.57	12.37	9.85	8.17	6.97	6.07	5.30	4.67	4.17	3.75	3.41	3.11	2.87	2.65	2.47	2.30	2.16	2.03	1.91	1.81	1.72	1.63	1.52	1.41	1.31	1.22	1.10	0.98	0.88	0.79	0.72	0.64	0.58
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.18	4.67	4.25	3.89	3.59	3.34	3.12	2.92	2.76	2.61	2.48	2.33	2.14	1.96	1.81	1.68	1.56	1.45	1.36	1.27	1.20	1.13	1.07	1.01	0.96	0.91
175	Pressure	16.56	12.36	9.84	8.16	6.96	6.06	5.31	4.67	4.16	3.75	3.40	3.10	2.85	2.64	2.45	2.28	2.14	2.01	1.90	1.79	1.70	1.61	1.53	1.46	1.40	1.34	1.20	1.08	0.96	0.86	0.77	0.70	0.62
	Suction	16.95	12.75	10.23	8.55	7.35	6.45	5.75	5.19	4.69	4.27	3.91	3.61	3.35	3.13	2.93	2.76	2.61	2.48	2.36	2.25	2.16	2.00	1.85	1.72	1.60	1.50	1.41	1.32	1.24	1.17	1.11	1.05	1.00
200	Pressure	12.79	9.53	7.57	6.27	5.34	4.64	4.06	3.57	3.17	2.84	2.56	2.33	2.13	1.96	1.82	1.69	1.57	1.47	1.38	1.30	1.23	1.16	1.10	1.04	0.99	0.95	0.90	0.86	0.82	0.79	0.76	0.73	0.70
	Suction	13.20	9.94	7.98	6.68	5.75	5.05	4.51	4.07	3.70	3.37	3.09	2.85	2.65	2.47	2.32	2.18	2.06	1.96	1.86	1.78	1.70	1.63	1.57	1.51	1.46	1.41	1.37	1.33	1.29	1.25	1.20	1.13	1.08
220	Pressure	12.78	9.52	7.56	6.26	5.33	4.63	4.06	3.56	3.16	2.83	2.55	2.32	2.12	1.95	1.80	1.67	1.56	1.46	1.37	1.28	1.21	1.14	1.08	1.03	0.98	0.93	0.89	0.85	0.81	0.78	0.74	0.71	0.67
	Suction	13.21	9.95	7.99	6.69	5.76	5.06	4.51	4.08	3.72	3.38	3.10	2.86	2.66	2.48	2.32	2.19	2.07	1.96	1.87	1.78	1.71	1.64	1.57	1.52	1.46	1.41	1.37	1.33	1.29	1.25	1.22	1.19	1.13

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2 The following deflection limits have been used:
   - Short term pressure loading $^{L}/_{200}$.
   - Short term suction loading $^{L}/_{150}$.
   - Long term loading $^{L}/_{100}$.
3 All panel thicknesses have been calculated with a minimum end support width of 50 mm and intermediate support width of 50 mm. Larger support widths are possible.
4 The actual wind suction resisted by the panel is dependent upon the number of fasteners and the material of the supporting element.
5 The fastener calculation should be carried out in accordance with the appropriate standards.
6 For intermediate values linear interpolation may be used.
7 The allowable steelwork tolerance between bearing planes of adjacent supports is ±5 mm.

Product Data: Load / Span Tables

QuadCore® Roofliner Roof Panel with 10 kg/m² Permanent Load.
Load / span tables (to be compared against calculated characteristic (i.e., unfactored) wind load values.

Triple Span

Core Thickness (mm)	Load Type	Uniformly distributed imposed load (kN/m²)																																
		Span (m)																																
		0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
50	Pressure	7.07	5.18	4.05	3.29	2.75	2.33	1.97	1.69	1.45	1.25	1.09	0.95	0.82	0.72	0.62	0.53	0.44	0.37	0.30	0.24	0.19	-	-	-	-	-	-	-	-	-	-	-	-
	Suction	7.65	5.76	4.62	3.87	3.33	2.92	2.60	2.35	2.15	1.97	1.83	1.70	1.60	1.47	1.35	1.24	1.15	1.06	0.98	0.90	0.83	-	-	-	-	-	-	-	-	-	-	-	-
60	Pressure	8.58	6.31	4.95	4.04	3.39	2.90	2.48	2.13	1.85	1.62	1.42	1.25	1.10	0.97	0.86	0.76	0.67	0.59	0.51	0.44	0.37	0.31	0.26	0.21	0.15	-	-	-	-	-	-	-	-
	Suction	9.17	6.90	5.54	4.63	3.98	3.49	3.11	2.81	2.56	2.36	2.18	2.03	1.90	1.79	1.67	1.52	1.37	1.25	1.14	1.05	0.96	0.89	0.83	0.77	0.72	-	-	-	-	-	-	-	-
80	Pressure	11.59	8.56	6.75	5.53	4.67	4.02	3.49	3.04	2.67	2.36	2.09	1.86	1.67	1.49	1.34	1.21	1.09	0.98	0.88	0.80	0.72	0.65	0.58	0.52	0.46	0.40	0.35	0.30	0.26	0.22	0.18	-	-
	Suction	12.21	9.18	7.36	6.15	5.28	4.63	4.13	3.72	3.39	3.12	2.88	2.69	2.51	2.36	2.16	1.94	1.75	1.59	1.45	1.33	1.22	1.13	1.05	0.98	0.91	0.85	0.80	0.76	0.71	0.67	0.64	-	-
100	Pressure	14.61	10.82	8.55	7.03	5.95	5.14	4.51	3.96	3.49	3.11	2.78	2.49	2.25	2.03	1.84	1.67	1.52	1.39	1.26	1.15	1.05	0.96	0.88	0.80	0.73	0.67	0.61	0.56	0.51	0.46	0.41	0.36	0.32
	Suction	15.24	11.45	9.18	7.67	6.59	5.77	5.14	4.64	4.22	3.88	3.59	3.34	3.12	2.92	2.59	2.32	2.10	1.90	1.73	1.59	1.46	1.35	1.25	1.16	1.08	1.02	0.95	0.90	0.85	0.80	0.76	0.72	0.68
125	Pressure	16.58	12.38	9.86	8.18	6.98	6.08	5.38	4.82	4.36	3.98	3.65	3.29	2.99	2.72	2.48	2.27	2.08	1.91	1.76	1.62	1.49	1.37	1.27	1.17	1.08	1.00	0.92	0.85	0.79	0.73	0.67	0.62	0.57
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.18	4.72	4.34	4.01	3.74	3.50	3.29	3.08	2.76	2.49	2.25	2.05	1.88	1.73	1.60	1.48	1.37	1.28	1.20	1.12	1.06	1.00	0.94	0.89	0.85	0.80
150	Pressure	16.57	12.37	9.85	8.17	6.97	6.07	5.37	4.81	4.35	3.97	3.64	3.37	3.13	2.92	2.73	2.57	2.42	2.29	2.17	2.06	1.94	1.80	1.67	1.55	1.44	1.34	1.25	1.16	1.06	0.97	0.89	0.82	0.75
	Suction	16.94	12.74	10.22	8.54	7.34	6.44	5.74	5.18	4.73	4.34	4.02	3.74	3.50	3.29	3.11	2.94	2.80	2.56	2.33	2.14	1.96	1.81	1.68	1.56	1.45	1.36	1.27	1.20	1.13	1.07	1.01	0.96	0.91
175	Pressure	16.56	12.36	9.84	8.16	6.96	6.06	5.36	4.80	4.34	3.96	3.63	3.36	3.12	2.91	2.72	2.56	2.41	2.28	2.16	2.05	1.95	1.86	1.77	1.70	1.62	1.49	1.36	1.23	1.12	1.03	0.94	0.86	0.79
	Suction	16.95	12.75	10.23	8.55	7.35	6.45	5.75	5.19	4.73	4.35	4.03	3.75	3.51	3.30	3.12	2.95	2.81	2.67	2.55	2.36	2.17	2.00	1.85	1.72	1.60	1.50	1.41	1.32	1.24	1.17	1.11	1.05	1.00
200	Pressure	12.79	9.53	7.57	6.27	5.34	4.64	4.10	3.66	3.31	3.01	2.76	2.54	2.36	2.19	2.05	1.92	1.81	1.71	1.61	1.53	1.45	1.38	1.31	1.25	1.20	1.15	1.10	1.05	1.01	0.97	0.93	0.90	0.83
	Suction	13.20	9.94	7.98	6.68	5.75	5.05	4.51	4.07	3.72	3.42	3.17	2.95	2.77	2.60	2.46	2.33	2.22	2.12	2.02	1.94	1.86	1.79	1.72	1.66	1.61	1.56	1.51	1.42	1.34	1.27	1.20	1.13	1.08
220	Pressure	12.78	9.52	7.56	6.26	5.33	4.63	4.09	3.65	3.30	3.00	2.75	2.54	2.35	2.19	2.04	1.92	1.80	1.70	1.60	1.52	1.44	1.37	1.31	1.25	1.19	1.14	1.09	1.05	1.00	0.96	0.93	0.89	0.81
	Suction	13.21	9.95	7.99	6.69	5.76	5.06	4.51	4.08	3.72	3.43	3.18	2.96	2.78	2.61	2.47	2.34	2.23	2.12	2.03	1.95	1.87	1.80	1.73	1.67	1.62	1.56	1.52	1.47	1.41	1.33	1.26	1.19	1.13

1 Values have been calculated using the method described in BS EN 14509: 2013, for medium coloured panels.
2 The following deflection limits have been used:
   - Short term pressure loading $^{L}/_{200}$.
   - Short term suction loading $^{L}/_{150}$.
   - Long term loading $^{L}/_{100}$.
3 All panel thicknesses have been calculated with a minimum end support width of 50 mm and intermediate support width of 50 mm. Larger support widths are possible.
4 The actual wind suction resisted by the panel is dependent upon the number of fasteners and the material of the supporting element.
5 The fastener calculation should be carried out in accordance with the appropriate standards.
6 For intermediate values linear interpolation may be used.
7 The allowable steelwork tolerance between bearing planes of adjacent supports is ±5 mm.

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