

Insulated Panels  
UK & Ireland

Protected by



# QuadCore™ KS1000RW LEC Roof Panel Product Data Sheet



QuadCore™ LEC  
LOWER EMBODIED CARBON SOLUTIONS

  
**Kingspan®**

# Product Data

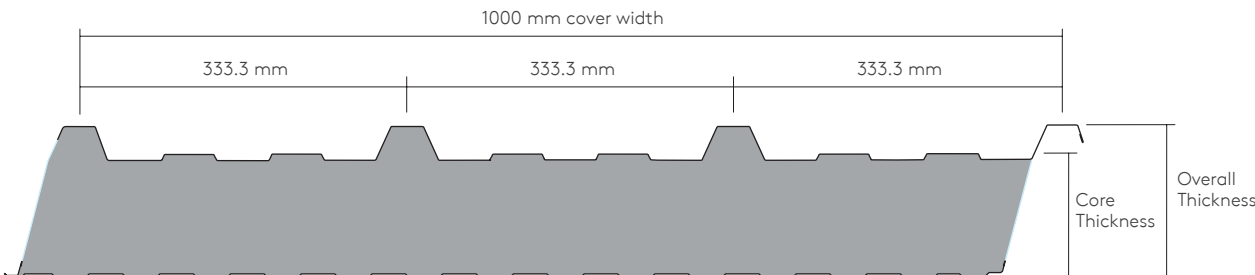
## Applications

QuadCore™ KS1000RW LEC\* Roof Panels are through-fix, trapezoidal profiled, insulated roof panels which can be used for building applications with roof pitches of 4° or more after deflection.

## Available Lengths

|                                    |             |
|------------------------------------|-------------|
| Standard Lengths (m)               | 1.8 - 14.5  |
| Longer Lengths (non-standard) (m)  | 14.5 - 29.2 |
| 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 and Ireland).



## Dimensions, Weight & Thermal Performance

| Core Thickness (mm)    | 40   | 53   | 60   | 73   | 80   | 91   | 100  | 115  | 120  | 137  | 150  | 167  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Overall Thickness (mm) | 71   | 84   | 91   | 104  | 111  | 122  | 131  | 146  | 151  | 168  | 181  | 198  |
| U-Value (W/m²K)        | 0.47 | 0.35 | 0.31 | 0.25 | 0.23 | 0.20 | 0.18 | 0.16 | 0.15 | 0.13 | 0.12 | 0.11 |
| Weight (kg/m²)         | 9.0  | 9.5  | 9.7  | 10.2 | 10.5 | 10.9 | 11.3 | 11.8 | 12.0 | 12.7 | 13.2 | 13.8 |

The QuadCore™ insulation used in QuadCore™ KS1000RW LEC Roof Panels has a Thermal Conductivity ( $\lambda$ ) of 0.018 W/m.K  
QuadCore™ KS1000RW LEC Roof Panels have a Thermal Transmittance (U-Value), calculated using the method required by the Building Regulations Part L2 (England & Wales), Building Standards Section 6 (Scotland), Part L (Republic of Ireland) and Part F2 (Northern Ireland).

## Insulation Core

QuadCore™ KS1000RW LEC Roof Panels are manufactured with an HCFC, CFC and HFC free QuadCore® insulation core.



\* LEC is an acronym for Lower Embodied Carbon. LEC is an extension of our insulated panel products to highlight that there is a lower embodied carbon variant available for the standard Kingspan product.

# Product Data

## Certification and Testing

### Reaction to Fire

QuadCore™ KS1000RW LEC 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) EN 13501-1: 2018 under the certified name KS1000RW when using the following internal liner:

- CLEANsafe 15.

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

### Roof Applications

QuadCore™ KS1000RW LEC Roof Panels are tested to:

- BROOF(t4) to BS EN 13501-5: 2016 under the certified name KS1000RW for panel thicknesses 40 - 150 mm and roof pitch of 0° - 10°.
- BROOF(t4) to BS EN 13501-5: 2016 under the certified name KS1000RW for panel thicknesses 40 - 150 mm and roof pitch of >10°.

### 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.

### Insurer Approvals

QuadCore™ KS1000RW LEC Roof Panels are tested to:

- LPS 1181 Part 1: Issue 1.2 Requirements and tests for builtup cladding and sandwich panel systems for use as the external envelope of buildings certified to:
  - LPS 1181-1 Grade EXT-B under the certified name QuadCore® KS1000RW (Roof Panel) for thicknesses 40 - 150 mm.
- FM 4471 approval standard for class 1 roof panels under the certified name KS1000RW for thicknesses 40 - 167 mm.
- FM 4880 approval standard for class 1 fire rating of building panels or interior finish materials under the certified name KS1000RW for thicknesses 40 - 167 mm.
- FM 4882 approval standard for class 1 interior wall and ceiling materials or systems for smoke sensitive occupancies under the certified name KS1000RW for thicknesses 40 - 167 mm.

Insurer approvals are large scale testing regimes that provide objective third-party testing, which is underpinned by quarterly, bi-annual and annual factory surveillance audits (depending on the region) to verify compliance. Insurer approvals are subject to panel thickness, cover width, orientation, method of assembly, steel coating and manufacturing facility. Please contact Kingspan Tech-eXchange for further information.



LPS 1181-1: Issue 1.2  
Cert: 186f & 260f  
LPCB Ref: 186f/01 & 260f/01

## Environmental

The reductions achieved by QuadCore™ KS1000RW LEC Roof Panels are demonstrated through third party, verified life cycle assessment, with reduction percentages calculated by comparing standard QuadCore® KS1000RW Roof Panels with QuadCore™ KS1000RW LEC Roof Panels to EN 15804-A2: 2019 standard. Environmental Profile Declarations (EPDs) for standard and LEC variants of QuadCore® products are available [here](#).

Kingspan Insulated Panels produced in the UK and Ireland are certified to BES 6001 (Framework Standard for the Responsible Sourcing of Construction Products) 'Good'.

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™ LEC products via technical services. Kingspan insulated panels can directly contribute to BREEAM® / LEED® credits.

## Air Leakage

An air leakage rate of 3m³/hr/m² 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.

## Acoustic

### Sound Reduction Index (SRI)

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|----|-----|-----|-----|------|------|------|------|
| SRI (dB)       | 20 | 18  | 20  | 24  | 20   | 29   | 39   | 47   |

QuadCore™ KS1000RW LEC Roof Panels have a single figure weighted sound reduction  $R_w = 25\text{dB}$ . 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 Spectrum 70: Consists of a coated semi-gloss finish with slight granular effect.

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

### Coatings – Internal Liner Sheet

- Kingspan CLEANsafe 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.

For reaction to fire performance of panels with above internal liners please see Certification and Testing section.

# Product Data

## Panel End Cut Back

|                         |                   |
|-------------------------|-------------------|
| Standard Cut Back Eaves | 50mm, 75mm, 100mm |
| Class A End Lap         | 75mm, 150mm       |

For further information in relation to end laps please contact Kingspan Tech-eXchange.

## Product Tolerances

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

## Seals

An optional factory applied weather seal (FAWS) can be supplied by Kingspan on request (this must be specified at order stage and is subject to additional charge).

## Handing

QuadCore™ KS1000RW LEC Roof Panels can be manufactured in both left to right handed (LH) and right to left handed (RH).

## Quality & Durability

QuadCore™ KS1000RW LEC 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™ KS1000RW LEC Roof Panels are CE marked to BS EN 14509: 2013.



## Warranty

### QuadCore® Assured Panel Warranty

- 25 years thermal performance
- 25 years fire performance
- 25 years structural performance
- 25 years environmental performance
- Up to 40 years coating performance (Spectrum 70)

## Packing

QuadCore™ KS1000RW LEC Roof Panels are stacked weather sheet to weather sheet (to minimise pack height). The top and sides are protected by either cardboard or polystyrene and spiral wrap stretch polyfilm. The number of panels in a pack will vary depending on thickness.

| Core Thickness (mm)    | 40 | 53 | 60 | 73-80 | 91-100 | 115-120 | 137-167 |
|------------------------|----|----|----|-------|--------|---------|---------|
| No. of Panels per Pack | 17 | 15 | 13 | 11    | 9      | 8       | 6       |

**Note:** Applies to UK and Ireland 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 are available from Kingspan Tech-eXchange.

# Product Data: Load / Span Tables

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  |
| 40                  | Pressure  | 12.49                                      | 7.76  | 5.48 | 4.16 | 3.31 | 2.71 | 2.26 | 1.71 | 1.31 | 1.02 | 0.80 | 0.63 | 0.50 | 0.39 | 0.31 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 12.53                                      | 7.81  | 5.55 | 4.24 | 3.40 | 2.81 | 2.37 | 2.03 | 1.76 | 1.55 | 1.37 | 1.22 | 1.09 | 0.99 | 0.87 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 53                  | Pressure  | 13.18                                      | 8.61  | 6.30 | 4.94 | 4.03 | 3.38 | 2.88 | 2.29 | 1.81 | 1.45 | 1.17 | 0.95 | 0.77 | 0.63 | 0.52 | 0.42 | 0.35 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 13.36                                      | 8.68  | 6.37 | 5.03 | 4.13 | 3.49 | 3.00 | 2.61 | 2.30 | 2.04 | 1.82 | 1.63 | 1.47 | 1.33 | 1.21 | 1.10 | 0.95 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 60                  | Pressure  | 13.54                                      | 9.08  | 6.74 | 5.36 | 4.44 | 3.76 | 3.23 | 2.62 | 2.10 | 1.70 | 1.39 | 1.14 | 0.94 | 0.78 | 0.64 | 0.54 | 0.45 | 0.37 | 0.31 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 13.72                                      | 9.15  | 6.83 | 5.46 | 4.54 | 3.88 | 3.36 | 2.95 | 2.60 | 2.32 | 2.07 | 1.87 | 1.69 | 1.53 | 1.35 | 1.21 | 1.09 | 0.98 | 0.89 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 73                  | Pressure  | 14.21                                      | 9.65  | 7.35 | 5.97 | 5.03 | 4.33 | 3.78 | 3.25 | 2.65 | 2.18 | 1.81 | 1.51 | 1.27 | 1.07 | 0.90 | 0.76 | 0.65 | 0.55 | 0.47 | 0.40 | 0.34 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 14.40                                      | 10.03 | 7.68 | 6.28 | 5.32 | 4.61 | 4.04 | 3.58 | 3.19 | 2.86 | 2.57 | 2.33 | 2.02 | 1.77 | 1.57 | 1.40 | 1.26 | 1.14 | 1.03 | 0.95 | 0.87 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 80                  | Pressure  | 14.45                                      | 9.88  | 7.62 | 6.26 | 5.32 | 4.61 | 4.04 | 3.57 | 2.96 | 2.45 | 2.05 | 1.72 | 1.46 | 1.24 | 1.05 | 0.90 | 0.77 | 0.66 | 0.56 | 0.48 | 0.41 | 0.35 | 0.30 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 14.76                                      | 10.51 | 8.15 | 6.73 | 5.75 | 5.01 | 4.42 | 3.93 | 3.52 | 3.16 | 2.85 | 2.50 | 2.17 | 1.90 | 1.68 | 1.50 | 1.35 | 1.22 | 1.11 | 1.02 | 0.93 | 0.86 | 0.80 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 91                  | Pressure  | 14.86                                      | 10.37 | 8.14 | 6.77 | 5.82 | 5.09 | 4.50 | 4.01 | 3.45 | 2.89 | 2.44 | 2.07 | 1.76 | 1.51 | 1.30 | 1.12 | 0.97 | 0.84 | 0.72 | 0.63 | 0.54 | 0.47 | 0.41 | 0.35 | 0.30 | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 15.33                                      | 11.27 | 8.89 | 7.44 | 6.43 | 5.66 | 5.03 | 4.50 | 4.04 | 3.65 | 3.18 | 2.73 | 2.37 | 2.08 | 1.84 | 1.64 | 1.48 | 1.34 | 1.22 | 1.11 | 1.02 | 0.94 | 0.87 | 0.81 | 0.76 | -    | -    | -    | -    | -    | -    | -    | -    |
| 100                 | Pressure  | 15.19                                      | 10.76 | 8.54 | 7.18 | 6.22 | 5.48 | 4.87 | 4.35 | 3.86 | 3.25 | 2.76 | 2.36 | 2.03 | 1.75 | 1.51 | 1.31 | 1.14 | 0.99 | 0.86 | 0.75 | 0.66 | 0.58 | 0.50 | 0.44 | 0.38 | 0.33 | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 15.61                                      | 11.74 | 9.41 | 7.86 | 6.75 | 5.92 | 5.27 | 4.76 | 4.33 | 3.98 | 3.39 | 2.91 | 2.53 | 2.22 | 1.97 | 1.76 | 1.58 | 1.43 | 1.30 | 1.19 | 1.09 | 1.01 | 0.93 | 0.87 | 0.81 | 0.76 | -    | -    | -    | -    | -    | -    | -    |
| 115                 | Pressure  | 15.40                                      | 11.36 | 9.19 | 7.65 | 6.54 | 5.71 | 5.06 | 4.55 | 4.12 | 3.77 | 3.32 | 2.86 | 2.48 | 2.15 | 1.88 | 1.64 | 1.44 | 1.27 | 1.11 | 0.98 | 0.87 | 0.77 | 0.68 | 0.60 | 0.53 | 0.47 | 0.41 | 0.36 | 0.32 | -    | -    | -    | -    |
|                     | Suction   | 15.62                                      | 11.74 | 9.41 | 7.86 | 6.75 | 5.92 | 5.28 | 4.76 | 4.34 | 3.98 | 3.69 | 3.21 | 2.79 | 2.45 | 2.17 | 1.94 | 1.74 | 1.58 | 1.43 | 1.31 | 1.20 | 1.11 | 1.03 | 0.96 | 0.89 | 0.83 | 0.78 | 0.74 | 0.69 | -    | -    | -    | -    |
| 120                 | Pressure  | 15.40                                      | 11.52 | 9.20 | 7.65 | 6.54 | 5.71 | 5.06 | 4.54 | 4.12 | 3.77 | 3.47 | 3.03 | 2.63 | 2.29 | 2.00 | 1.76 | 1.55 | 1.36 | 1.20 | 1.06 | 0.94 | 0.83 | 0.74 | 0.65 | 0.58 | 0.51 | 0.46 | 0.40 | 0.36 | 0.31 | -    | -    | -    |
|                     | Suction   | 15.62                                      | 11.74 | 9.42 | 7.86 | 6.76 | 5.93 | 5.28 | 4.76 | 4.34 | 3.99 | 3.69 | 3.30 | 2.87 | 2.52 | 2.23 | 2.00 | 1.79 | 1.62 | 1.48 | 1.35 | 1.24 | 1.15 | 1.06 | 0.99 | 0.92 | 0.86 | 0.81 | 0.76 | 0.72 | 0.68 | -    | -    | -    |
| 137                 | Pressure  | 15.40                                      | 11.52 | 9.19 | 7.64 | 6.53 | 5.70 | 5.05 | 4.54 | 4.11 | 3.76 | 3.46 | 3.21 | 2.99 | 2.78 | 2.45 | 2.16 | 1.91 | 1.70 | 1.51 | 1.34 | 1.20 | 1.07 | 0.95 | 0.85 | 0.76 | 0.68 | 0.61 | 0.55 | 0.49 | 0.44 | 0.39 | 0.35 | 0.31 |
|                     | Suction   | 15.63                                      | 11.75 | 9.42 | 7.87 | 6.76 | 5.93 | 5.29 | 4.77 | 4.35 | 3.99 | 3.69 | 3.44 | 3.15 | 2.76 | 2.45 | 2.19 | 1.97 | 1.78 | 1.62 | 1.48 | 1.36 | 1.26 | 1.16 | 1.08 | 1.01 | 0.94 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.67 | 0.63 |
| 150                 | Pressure  | 15.39                                      | 11.51 | 9.19 | 7.64 | 6.53 | 5.70 | 5.05 | 4.53 | 4.11 | 3.76 | 3.46 | 3.20 | 2.98 | 2.79 | 2.62 | 2.47 | 2.20 | 1.97 | 1.75 | 1.57 | 1.41 | 1.26 | 1.13 | 1.02 | 0.91 | 0.82 | 0.74 | 0.67 | 0.60 | 0.54 | 0.49 | 0.44 | 0.39 |
|                     | Suction   | 15.63                                      | 11.75 | 9.43 | 7.88 | 6.77 | 5.94 | 5.29 | 4.77 | 4.35 | 4.00 | 3.70 | 3.44 | 3.22 | 2.94 | 2.61 | 2.33 | 2.09 | 1.90 | 1.72 | 1.58 | 1.45 | 1.34 | 1.24 | 1.15 | 1.07 | 1.00 | 0.94 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.67 |
| 167                 | Pressure  | 15.39                                      | 11.51 | 9.18 | 7.63 | 6.52 | 5.69 | 5.05 | 4.53 | 4.11 | 3.75 | 3.45 | 3.20 | 2.98 | 2.78 | 2.61 | 2.46 | 2.32 | 2.20 | 2.09 | 1.88 | 1.69 | 1.52 | 1.38 | 1.24 | 1.12 | 1.02 | 0.92 | 0.83 | 0.76 | 0.68 | 0.62 | 0.56 | 0.51 |
|                     | Suction   | 15.64                                      | 11.76 | 9.43 | 7.88 | 6.77 | 5.94 | 5.29 | 4.78 | 4.35 | 4.00 | 3.70 | 3.45 | 3.23 | 3.03 | 2.80 | 2.50 | 2.25 | 2.03 | 1.85 | 1.69 | 1.56 | 1.43 | 1.33 | 1.23 | 1.15 | 1.08 | 1.01 | 0.95 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 |

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  $\pm 5$  mm.

# Product Data: Load / Span Tables

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  |
| 40                  | Pressure  | 9.59                                       | 7.12  | 5.48 | 4.16 | 3.31 | 2.71 | 2.26 | 1.92 | 1.62 | 1.38 | 1.20 | 1.05 | 0.92 | 0.82 | 0.73 | 0.65 | 0.59 | 0.53 | 0.48 | 0.44 | 0.39 | 0.34 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 9.94                                       | 7.45  | 5.55 | 4.24 | 3.40 | 2.81 | 2.37 | 2.03 | 1.76 | 1.54 | 1.36 | 1.21 | 1.09 | 0.99 | 0.89 | 0.81 | 0.75 | 0.69 | 0.63 | 0.59 | 0.55 | 0.51 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 53                  | Pressure  | 10.55                                      | 7.84  | 6.24 | 4.94 | 3.93 | 3.12 | 2.55 | 2.13 | 1.81 | 1.56 | 1.36 | 1.19 | 1.06 | 0.94 | 0.85 | 0.76 | 0.69 | 0.63 | 0.57 | 0.52 | 0.48 | 0.42 | 0.36 | 0.31 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 10.93                                      | 8.19  | 6.37 | 5.03 | 4.04 | 3.24 | 2.68 | 2.27 | 1.96 | 1.72 | 1.53 | 1.37 | 1.24 | 1.13 | 1.03 | 0.95 | 0.88 | 0.82 | 0.77 | 0.72 | 0.68 | 0.64 | 0.59 | 0.55 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 60                  | Pressure  | 11.08                                      | 8.24  | 6.55 | 5.33 | 4.09 | 3.26 | 2.67 | 2.24 | 1.91 | 1.65 | 1.44 | 1.27 | 1.13 | 1.01 | 0.91 | 0.82 | 0.75 | 0.68 | 0.62 | 0.57 | 0.52 | 0.47 | 0.40 | 0.35 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 11.46                                      | 8.60  | 6.83 | 5.42 | 4.20 | 3.38 | 2.81 | 2.39 | 2.06 | 1.81 | 1.61 | 1.45 | 1.31 | 1.20 | 1.10 | 1.02 | 0.94 | 0.88 | 0.82 | 0.77 | 0.73 | 0.69 | 0.64 | 0.60 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 73                  | Pressure  | 12.07                                      | 8.99  | 7.15 | 5.65 | 4.37 | 3.50 | 2.89 | 2.43 | 2.08 | 1.81 | 1.58 | 1.40 | 1.25 | 1.12 | 1.01 | 0.92 | 0.84 | 0.77 | 0.70 | 0.65 | 0.60 | 0.55 | 0.49 | 0.42 | 0.36 | 0.31 | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 12.47                                      | 9.36  | 7.50 | 5.75 | 4.49 | 3.64 | 3.04 | 2.59 | 2.25 | 1.98 | 1.77 | 1.59 | 1.45 | 1.32 | 1.22 | 1.13 | 1.05 | 0.98 | 0.92 | 0.86 | 0.81 | 0.77 | 0.73 | 0.69 | 0.65 | 0.60 | -    | -    | -    | -    | -    | -    | -    |
| 80                  | Pressure  | 12.61                                      | 9.39  | 7.47 | 5.81 | 4.51 | 3.63 | 3.00 | 2.53 | 2.17 | 1.89 | 1.66 | 1.47 | 1.31 | 1.18 | 1.07 | 0.97 | 0.89 | 0.81 | 0.75 | 0.69 | 0.63 | 0.59 | 0.53 | 0.46 | 0.40 | 0.34 | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 13.01                                      | 9.78  | 7.84 | 5.92 | 4.64 | 3.77 | 3.16 | 2.70 | 2.35 | 2.07 | 1.85 | 1.67 | 1.51 | 1.39 | 1.28 | 1.18 | 1.10 | 1.03 | 0.97 | 0.91 | 0.86 | 0.81 | 0.77 | 0.73 | 0.69 | 0.65 | -    | -    | -    | -    | -    | -    | -    |
| 91                  | Pressure  | 13.46                                      | 10.04 | 7.99 | 6.07 | 4.74 | 3.83 | 3.18 | 2.69 | 2.31 | 2.01 | 1.77 | 1.58 | 1.41 | 1.27 | 1.15 | 1.05 | 0.96 | 0.88 | 0.81 | 0.75 | 0.69 | 0.64 | 0.60 | 0.55 | 0.52 | 0.48 | 0.42 | 0.36 | 0.32 | -    | -    | -    | -    |
|                     | Suction   | 13.87                                      | 10.43 | 8.28 | 6.19 | 4.87 | 3.98 | 3.34 | 2.86 | 2.50 | 2.21 | 1.97 | 1.78 | 1.62 | 1.48 | 1.37 | 1.27 | 1.18 | 1.11 | 1.04 | 0.98 | 0.92 | 0.88 | 0.83 | 0.79 | 0.76 | 0.71 | 0.67 | 0.63 | 0.59 | -    | -    | -    | -    |
| 100                 | Pressure  | 13.89                                      | 10.36 | 8.25 | 6.27 | 4.91 | 3.98 | 3.31 | 2.81 | 2.42 | 2.11 | 1.86 | 1.66 | 1.48 | 1.34 | 1.21 | 1.11 | 1.01 | 0.93 | 0.86 | 0.79 | 0.73 | 0.68 | 0.63 | 0.59 | 0.55 | 0.52 | 0.48 | 0.45 | 0.41 | 0.36 | 0.32 | -    | -    |
|                     | Suction   | 14.30                                      | 10.77 | 8.52 | 6.40 | 5.06 | 4.15 | 3.49 | 2.99 | 2.61 | 2.31 | 2.07 | 1.87 | 1.70 | 1.56 | 1.44 | 1.34 | 1.25 | 1.17 | 1.10 | 1.03 | 0.98 | 0.93 | 0.88 | 0.84 | 0.80 | 0.76 | 0.71 | 0.67 | 0.63 | 0.60 | 0.56 | -    | -    |
| 115                 | Pressure  | 13.93                                      | 10.40 | 8.28 | 6.60 | 5.20 | 4.24 | 3.54 | 3.01 | 2.60 | 2.27 | 2.01 | 1.79 | 1.61 | 1.45 | 1.32 | 1.20 | 1.10 | 1.01 | 0.94 | 0.87 | 0.80 | 0.75 | 0.70 | 0.65 | 0.61 | 0.57 | 0.54 | 0.50 | 0.47 | 0.44 | 0.42 | 0.39 | 0.37 |
|                     | Suction   | 14.36                                      | 10.82 | 8.69 | 6.74 | 5.36 | 4.41 | 3.72 | 3.20 | 2.80 | 2.48 | 2.22 | 2.01 | 1.83 | 1.68 | 1.56 | 1.44 | 1.35 | 1.26 | 1.19 | 1.12 | 1.06 | 1.00 | 0.96 | 0.91 | 0.87 | 0.83 | 0.78 | 0.74 | 0.69 | 0.66 | 0.62 | 0.59 | 0.56 |
| 120                 | Pressure  | 13.94                                      | 10.41 | 8.29 | 6.70 | 5.29 | 4.32 | 3.61 | 3.07 | 2.66 | 2.32 | 2.05 | 1.83 | 1.64 | 1.49 | 1.35 | 1.23 | 1.13 | 1.04 | 0.96 | 0.89 | 0.83 | 0.77 | 0.72 | 0.67 | 0.63 | 0.59 | 0.55 | 0.52 | 0.49 | 0.46 | 0.43 | 0.41 | 0.38 |
|                     | Suction   | 14.38                                      | 10.84 | 8.70 | 6.85 | 5.46 | 4.49 | 3.80 | 3.27 | 2.86 | 2.54 | 2.28 | 2.06 | 1.88 | 1.72 | 1.59 | 1.48 | 1.38 | 1.29 | 1.22 | 1.15 | 1.09 | 1.03 | 0.98 | 0.93 | 0.89 | 0.86 | 0.81 | 0.76 | 0.72 | 0.68 | 0.64 | 0.61 | 0.58 |
| 137                 | Pressure  | 13.99                                      | 10.45 | 8.32 | 6.89 | 5.60 | 4.58 | 3.84 | 3.28 | 2.84 | 2.49 | 2.21 | 1.97 | 1.77 | 1.60 | 1.46 | 1.33 | 1.22 | 1.13 | 1.04 | 0.97 | 0.90 | 0.84 | 0.78 | 0.73 | 0.68 | 0.64 | 0.60 | 0.57 | 0.53 | 0.50 | 0.48 | 0.45 | 0.42 |
|                     | Suction   | 14.44                                      | 10.90 | 8.75 | 7.22 | 5.78 | 4.78 | 4.05 | 3.50 | 3.07 | 2.72 | 2.44 | 2.21 | 2.02 | 1.86 | 1.72 | 1.59 | 1.49 | 1.40 | 1.31 | 1.24 | 1.17 | 1.11 | 1.06 | 1.01 | 0.97 | 0.93 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.67 | 0.63 |
| 150                 | Pressure  | 14.03                                      | 10.48 | 8.34 | 6.90 | 5.82 | 4.78 | 4.02 | 3.43 | 2.98 | 2.61 | 2.32 | 2.07 | 1.86 | 1.69 | 1.54 | 1.41 | 1.29 | 1.19 | 1.10 | 1.02 | 0.95 | 0.89 | 0.83 | 0.78 | 0.73 | 0.68 | 0.64 | 0.60 | 0.57 | 0.54 | 0.51 | 0.48 | 0.45 |
|                     | Suction   | 14.49                                      | 10.94 | 8.78 | 7.33 | 6.02 | 4.99 | 4.24 | 3.66 | 3.21 | 2.86 | 2.57 | 2.33 | 2.12 | 1.95 | 1.81 | 1.68 | 1.57 | 1.47 | 1.38 | 1.31 | 1.24 | 1.18 | 1.12 | 1.07 | 1.02 | 0.98 | 0.94 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.67 |
| 167                 | Pressure  | 14.07                                      | 10.52 | 8.37 | 6.92 | 5.88 | 5.03 | 4.24 | 3.63 | 3.15 | 2.77 | 2.46 | 2.20 | 1.98 | 1.80 | 1.64 | 1.50 | 1.38 | 1.27 | 1.18 | 1.09 | 1.02 | 0.95 | 0.89 | 0.83 | 0.78 | 0.73 | 0.69 | 0.65 | 0.61 | 0.58 | 0.55 | 0.52 | 0.49 |
|                     | Suction   | 14.54                                      | 10.99 | 8.83 | 7.36 | 6.31 | 5.25 | 4.47 | 3.87 | 3.40 | 3.03 | 2.72 | 2.47 | 2.25 | 2.07 | 1.92 | 1.78 | 1.67 | 1.56 | 1.47 | 1.39 | 1.32 | 1.25 | 1.19 | 1.14 | 1.09 | 1.04 | 1.00 | 0.95 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 |

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  $\pm 5$  mm.

# Product Data: Load / Span Tables

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  |
| 40                  | Pressure  | 11.31                                      | 7.76  | 5.48 | 4.16 | 3.31 | 2.71 | 2.26 | 1.92 | 1.64 | 1.42 | 1.24 | 1.09 | 0.96 | 0.85 | 0.76 | 0.68 | 0.61 | 0.55 | 0.49 | 0.45 | 0.39 | 0.33 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 11.40                                      | 7.81  | 5.55 | 4.24 | 3.40 | 2.81 | 2.37 | 2.03 | 1.76 | 1.55 | 1.37 | 1.22 | 1.09 | 0.99 | 0.89 | 0.81 | 0.75 | 0.69 | 0.63 | 0.59 | 0.55 | 0.51 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 53                  | Pressure  | 12.36                                      | 8.61  | 6.30 | 4.94 | 4.03 | 3.38 | 2.88 | 2.49 | 2.17 | 1.90 | 1.67 | 1.48 | 1.32 | 1.19 | 1.07 | 0.96 | 0.87 | 0.79 | 0.72 | 0.65 | 0.59 | 0.52 | 0.46 | 0.41 | 0.36 | 0.31 | -    | -    | -    | -    | -    | -    | -    |
|                     | Suction   | 12.45                                      | 8.68  | 6.37 | 5.03 | 4.13 | 3.49 | 3.00 | 2.61 | 2.30 | 2.04 | 1.82 | 1.63 | 1.47 | 1.33 | 1.21 | 1.11 | 1.00 | 0.90 | 0.82 | 0.75 | 0.69 | 0.64 | 0.59 | 0.55 | 0.52 | 0.48 | -    | -    | -    | -    | -    | -    | -    |
| 60                  | Pressure  | 12.93                                      | 9.08  | 6.74 | 5.36 | 4.44 | 3.76 | 3.19 | 2.69 | 2.31 | 2.00 | 1.76 | 1.56 | 1.40 | 1.26 | 1.14 | 1.03 | 0.94 | 0.86 | 0.79 | 0.73 | 0.68 | 0.62 | 0.56 | 0.50 | 0.44 | 0.40 | 0.35 | 0.31 | -    | -    | -    | -    | -    |
|                     | Suction   | 13.02                                      | 9.15  | 6.83 | 5.46 | 4.54 | 3.88 | 3.34 | 2.85 | 2.48 | 2.18 | 1.95 | 1.75 | 1.59 | 1.46 | 1.34 | 1.21 | 1.09 | 0.98 | 0.89 | 0.82 | 0.75 | 0.69 | 0.64 | 0.60 | 0.56 | 0.52 | 0.49 | 0.46 | -    | -    | -    | -    | -    |
| 73                  | Pressure  | 13.99                                      | 9.65  | 7.35 | 5.97 | 5.03 | 4.10 | 3.40 | 2.88 | 2.48 | 2.17 | 1.91 | 1.70 | 1.53 | 1.38 | 1.25 | 1.14 | 1.05 | 0.96 | 0.89 | 0.82 | 0.76 | 0.71 | 0.66 | 0.61 | 0.56 | 0.50 | 0.46 | 0.41 | 0.37 | 0.34 | 0.31 | -    | -    |
|                     | Suction   | 14.10                                      | 10.03 | 7.68 | 6.28 | 5.23 | 4.25 | 3.56 | 3.05 | 2.66 | 2.36 | 2.11 | 1.90 | 1.73 | 1.59 | 1.47 | 1.36 | 1.26 | 1.14 | 1.03 | 0.95 | 0.87 | 0.80 | 0.74 | 0.69 | 0.65 | 0.60 | 0.57 | 0.53 | 0.50 | 0.48 | 0.45 | -    | -    |
| 80                  | Pressure  | 14.45                                      | 9.88  | 7.62 | 6.26 | 5.23 | 4.22 | 3.51 | 2.98 | 2.57 | 2.25 | 1.99 | 1.77 | 1.59 | 1.44 | 1.31 | 1.20 | 1.10 | 1.01 | 0.93 | 0.86 | 0.80 | 0.75 | 0.70 | 0.65 | 0.60 | 0.54 | 0.49 | 0.44 | 0.40 | 0.37 | 0.33 | 0.31 | -    |
|                     | Suction   | 14.68                                      | 10.51 | 8.15 | 6.73 | 5.37 | 4.38 | 3.67 | 3.16 | 2.76 | 2.45 | 2.19 | 1.98 | 1.81 | 1.66 | 1.53 | 1.42 | 1.33 | 1.22 | 1.11 | 1.02 | 0.93 | 0.86 | 0.80 | 0.74 | 0.69 | 0.65 | 0.61 | 0.57 | 0.54 | 0.51 | 0.49 | 0.46 | -    |
| 91                  | Pressure  | 14.86                                      | 10.37 | 8.14 | 6.77 | 5.44 | 4.41 | 3.67 | 3.13 | 2.71 | 2.37 | 2.10 | 1.88 | 1.69 | 1.54 | 1.40 | 1.28 | 1.18 | 1.09 | 1.00 | 0.93 | 0.87 | 0.81 | 0.75 | 0.71 | 0.66 | 0.62 | 0.58 | 0.55 | 0.50 | 0.46 | 0.42 | 0.38 | 0.35 |
|                     | Suction   | 15.33                                      | 11.27 | 8.89 | 7.10 | 5.58 | 4.57 | 3.85 | 3.31 | 2.90 | 2.58 | 2.32 | 2.10 | 1.92 | 1.76 | 1.63 | 1.52 | 1.41 | 1.33 | 1.22 | 1.11 | 1.02 | 0.94 | 0.87 | 0.81 | 0.76 | 0.71 | 0.67 | 0.63 | 0.59 | 0.56 | 0.53 | 0.50 | 0.48 |
| 100                 | Pressure  | 15.19                                      | 10.76 | 8.54 | 7.16 | 5.60 | 4.55 | 3.80 | 3.24 | 2.81 | 2.47 | 2.19 | 1.96 | 1.77 | 1.61 | 1.47 | 1.34 | 1.24 | 1.14 | 1.06 | 0.98 | 0.91 | 0.85 | 0.80 | 0.75 | 0.70 | 0.66 | 0.62 | 0.58 | 0.55 | 0.52 | 0.49 | 0.45 | 0.41 |
|                     | Suction   | 15.61                                      | 11.74 | 9.41 | 7.30 | 5.75 | 4.72 | 3.99 | 3.44 | 3.02 | 2.69 | 2.42 | 2.19 | 2.00 | 1.85 | 1.71 | 1.59 | 1.48 | 1.39 | 1.30 | 1.19 | 1.09 | 1.01 | 0.93 | 0.87 | 0.81 | 0.76 | 0.71 | 0.67 | 0.63 | 0.60 | 0.56 | 0.54 | 0.51 |
| 115                 | Pressure  | 15.40                                      | 11.36 | 9.19 | 7.47 | 5.87 | 4.79 | 4.01 | 3.43 | 2.99 | 2.63 | 2.34 | 2.10 | 1.90 | 1.72 | 1.58 | 1.45 | 1.33 | 1.23 | 1.14 | 1.06 | 0.99 | 0.93 | 0.87 | 0.82 | 0.77 | 0.72 | 0.68 | 0.64 | 0.61 | 0.57 | 0.54 | 0.51 | 0.49 |
|                     | Suction   | 15.62                                      | 11.74 | 9.41 | 7.61 | 6.03 | 4.97 | 4.21 | 3.64 | 3.20 | 2.85 | 2.57 | 2.34 | 2.14 | 1.97 | 1.83 | 1.70 | 1.59 | 1.50 | 1.41 | 1.31 | 1.20 | 1.11 | 1.03 | 0.96 | 0.89 | 0.83 | 0.78 | 0.74 | 0.69 | 0.66 | 0.62 | 0.59 | 0.56 |
| 120                 | Pressure  | 15.40                                      | 11.52 | 9.20 | 7.56 | 5.95 | 4.86 | 4.08 | 3.49 | 3.04 | 2.68 | 2.38 | 2.14 | 1.94 | 1.76 | 1.61 | 1.48 | 1.36 | 1.26 | 1.17 | 1.09 | 1.02 | 0.95 | 0.89 | 0.84 | 0.79 | 0.74 | 0.70 | 0.66 | 0.62 | 0.59 | 0.56 | 0.53 | 0.50 |
|                     | Suction   | 15.62                                      | 11.74 | 9.42 | 7.71 | 6.12 | 5.05 | 4.28 | 3.71 | 3.26 | 2.91 | 2.62 | 2.38 | 2.18 | 2.01 | 1.87 | 1.74 | 1.63 | 1.53 | 1.44 | 1.35 | 1.24 | 1.15 | 1.06 | 0.99 | 0.92 | 0.86 | 0.81 | 0.76 | 0.72 | 0.68 | 0.64 | 0.61 | 0.58 |
| 137                 | Pressure  | 15.40                                      | 11.52 | 9.19 | 7.64 | 6.24 | 5.11 | 4.30 | 3.69 | 3.22 | 2.84 | 2.53 | 2.28 | 2.06 | 1.88 | 1.72 | 1.58 | 1.46 | 1.35 | 1.26 | 1.17 | 1.10 | 1.03 | 0.96 | 0.91 | 0.85 | 0.80 | 0.76 | 0.72 | 0.68 | 0.64 | 0.61 | 0.58 | 0.55 |
|                     | Suction   | 15.63                                      | 11.75 | 9.42 | 7.87 | 6.42 | 5.31 | 4.52 | 3.92 | 3.46 | 3.09 | 2.79 | 2.54 | 2.33 | 2.15 | 2.00 | 1.86 | 1.74 | 1.64 | 1.55 | 1.46 | 1.36 | 1.26 | 1.16 | 1.08 | 1.01 | 0.94 | 0.88 | 0.83 | 0.78 | 0.74 | 0.70 | 0.67 | 0.63 |
| 150                 | Pressure  | 15.39                                      | 11.51 | 9.19 | 7.64 | 6.45 | 5.30 | 4.47 | 3.84 | 3.35 | 2.96 | 2.64 | 2.38 | 2.16 | 1.97 | 1.80 | 1.66 | 1.53 | 1.42 | 1.32 | 1.23 | 1.15 | 1.08 | 1.02 | 0.96 | 0.90 | 0.85 | 0.80 | 0.76 | 0.72 | 0.68 | 0.65 | 0.61 | 0.58 |
|                     | Suction   | 15.63                                      | 11.75 | 9.43 | 7.88 | 6.64 | 5.51 | 4.69 | 4.08 | 3.60 | 3.22 | 2.91 | 2.65 | 2.43 | 2.25 | 2.09 | 1.95 | 1.83 | 1.72 | 1.62 | 1.54 | 1.45 | 1.34 | 1.24 | 1.15 | 1.07 | 1.00 | 0.94 | 0.88 | 0.83 | 0.79 | 0.75 | 0.71 | 0.67 |
| 167                 | Pressure  | 15.39                                      | 11.51 | 9.18 | 7.63 | 6.52 | 5.53 | 4.67 | 4.03 | 3.52 | 3.11 | 2.78 | 2.51 | 2.28 | 2.08 | 1.91 | 1.76 | 1.62 | 1.51 | 1.40 | 1.31 | 1.23 | 1.15 | 1.08 | 1.02 | 0.96 | 0.91 | 0.86 | 0.81 | 0.77 | 0.73 | 0.69 | 0.66 | 0.63 |
|                     | Suction   | 15.64                                      | 11.76 | 9.43 | 7.88 | 6.77 | 5.76 | 4.91 | 4.28 | 3.78 | 3.38 | 3.06 | 2.79 | 2.57 | 2.37 | 2.21 | 2.06 | 1.93 | 1.82 | 1.72 | 1.63 | 1.54 | 1.43 | 1.33 | 1.23 | 1.15 | 1.08 | 1.01 | 0.95 | 0.89 | 0.84 | 0.80 | 0.76 | 0.72 |

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  $\pm 5$  mm.

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