

Roof Details

The KS1000 RW is a through-fix trapezoidal profiled insulated roof panel which can be used for building applications

KS1000 RW Trapezoidal

Product Data Sheet

Insulation Core

KS1000 RW insulated roof panels are manufactured with an ECOsafe and FIREsafe polyisocyanurate (PIR) core.

Fire

The external and internal faces of the panel to be Class 0 in accordance with the Building Regulations when tested to BS 476: Part 6: 2009 and Part 7: 1997. The panel is rated SAA when tested to BS 476: Part 3: 2004.

This FIREsafe system has passed all the requirements of LPS 1181: 2005: Part 1: Issue 1.1, ceiling lining tests by the Loss Prevention Certification Board (LPCB) certified to LPS 1181 Grade EXT – B and FM approval to FMRC 4880 & 4471 Class 1 fire classification, unlimited height, for roof applications.



Environmental

This ECOsafe system achieves a Green Guide A+ rating as per the BRE Global "The Green Guide to Specification", Green Guide 2008 ratings. Green Guide element no. 812550001.

Air Leakage

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

Acoustic

Sound Reduction Index (SRI)

Hz*	63	125	250	500	1K	2K	4K	8K
SRI (dB)	20	18	20	24	20	29	39	47

* Frequency

The KS1000 RW insulated roof panel has a single figure weighted sound reduction $R_w = 25\text{dB}$.

Biological

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

Materials

Substrate

- Kingspan XL Forté, Kingspan Spectrum, Kingspan AQUAsafe and Kingspan CLEANsafe: S220GD+ZA hot-dip zinc / aluminium Galvanneal coated steel to BS EN 10346: 2009. Standard external sheet thickness 0.5mm, standard internal sheet thickness 0.4mm.
- Bright White Polyester: Hot dip zinc coated to BS EN 10346: 2009, Standard internal steel thickness 0.4mm.
- Stainless Steel: Austenitic Grade 304 stainless steel to BS EN 10088: Part 2: 2005, thickness 0.4mm.
- Aluminium: Please contact Kingspan Technical Services.

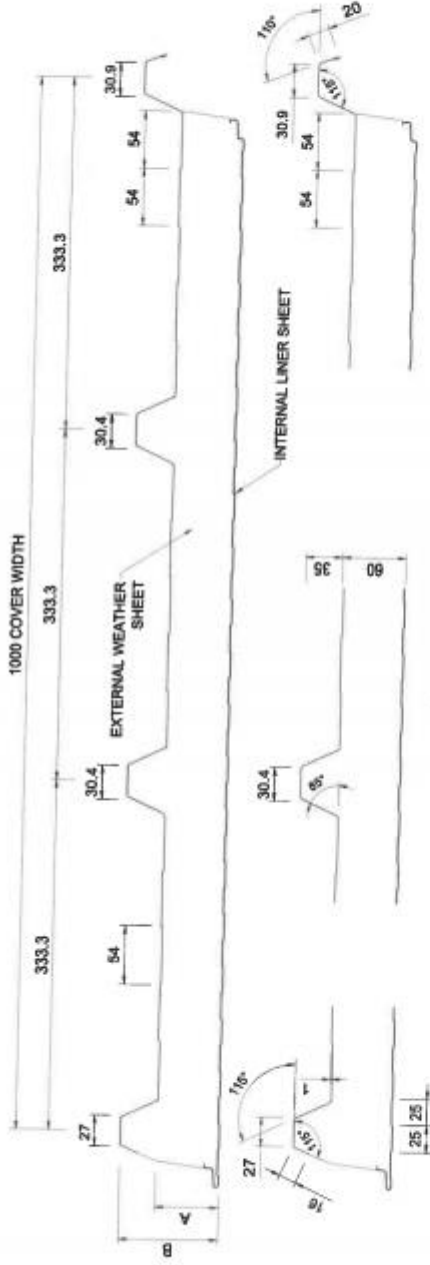
Coatings - External Weather Sheet

- Kingspan XL Forté: Consists of a multi-layer organic coating, embossed with a traditional leather-grain finish.
- Kingspan Spectrum: Consists of a coated semi-gloss finish with slight granular effect.

Coatings - Internal Liner Sheet

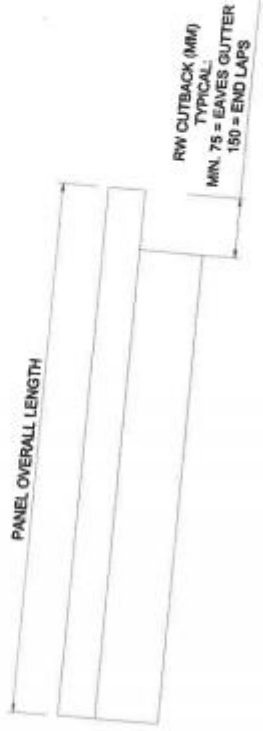
- Bright White Polyester: The coating has been developed for use as the internal lining of insulated panels. Standard colour is "bright white" with an easily cleaned surface.
- Kingspan AQUAsafe: The coating has been developed for use as the internal lining of insulated panels to suit high humidity internal environments (class 5 as defined by the Building Regulations).
- Kingspan CLEANsafe: 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.
- Stainless Steel: The stainless steel liner has been developed for use as the internal lining of insulated panels in buildings with a very aggressive/corrosive internal environment.

Trapezoidal Roof Panel (KS1000 RW)



A - CORE THICKNESS (MM)	40	60	100
B - OVERALL DIMS (MM)	75	95	135

NOTE: ABOVE DIMENSIONS ARE NOMINAL, ACTUAL DIMENSIONS WILL VARY DUE TO MANUFACTURING TOLERANCES. EXACT DIMENSIONS MUST ALWAYS BE MEASURED FROM ACTUAL SAMPLES. ALL DIMENSIONS IN MILLIMETRES.



Dwg. Title

Panel Dimensions

Application

Roof Panel

Scale

NTS

Dwg. No.

RW RS 01

Rev.

B

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Photographs showing standard roof

