Product Data Sheet
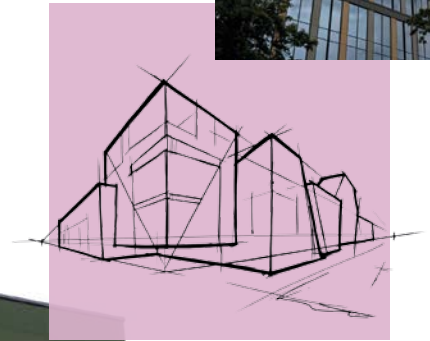# Rockpanel Premium

Rockpanel Premium

Product description

Impressively transform buildings into representative symbols that visually express the success of your business. The best materials, open-ended design solutions as well as customised formats and dimensions give your building project an absolute premium look. Naturally, they always meet the particularly high requirements for fire protection A2-s1,d0.

Assortment

Product Line	Board Composition	Thickness	Standard dimensions
Rockpanel Premium	FS-Xtra	9 mm	1200/1250 x 1700-3050 mm

Surface

The surface of Rockpanel Premium is treated with a four-layer water-borne polymer emulsion paint on one side, and comes standard with a ProtectPlus finish. The Rockpanel ProtectPlus boards are provided with an extra anti-graffiti clear coat as a fifth layer on top of the coloured paint.

Key product properties

	Rockpanel Premium	Unit	Test/classification method
Optical properties			
Colour stability (5000 h)	ProtectPlus: 4 or better	Class on greyscale	ISO 105 A02
Fire			
Fire classification	A2-s1,d0	Euroclass	EN 13501-1
Physical properties			
Thickness	9	mm	EN 325
Weight	11.25	kg/m²	
Density, nominal	1250	kg/m³	EN 323
Thermal conductivity	0.55	W/m·K	EN 10456
Water vapour permeability S_d (at 23 °C and 85 % RF) ProtectPlus	n.a.	m	EN 12572
Coefficient of thermal expansion (mm/m·K)	9.7	$x10^{-3}$ mm/m·K	EN 438:2 clause 17
Coefficient of moisture expansion (after 4 days) (mm/m)	0.206	mm/m	EN 438:2 clause 17
Mechanical properties			
Bending strength, length and width (f_{05})	≥ 25.5	N/mm²	EN 310 / EN 1058
Modulus of elasticity m (E)	4740	N/mm²	EN 310

Fixing distances

Maximum Fixing distances (mm)	Rockpanel Premium	
	b max.	a max.
Rivet	600	600

Test in this document are executed according the European Assessment Document (EAD 090001-00-0404) for Rockpanel boards.

Rockpanel boards

The Rockpanel boards are produced from compressed natural basalt, a sustainable and readily available volcanic rock and bonded with an organic binder from which all Rockpanel products derive their unique properties. The products combine the advantages of stone and workability of wood.

Sustainability and environment

Rockpanel Durable and FS-Xtra products have been independently certified for their environmental performance by the Building Research Establishment (BRE), complying with all requirements identified in the scheme document SD028. BRE granted Rockpanel an Environmental Product Declaration (Environmental Profiles Certificate No. 427) acknowledging Rockpanel Durable and FS-Xtra board material as amongst the best in their category with A+ and A ratings for various structures. Next to these Environmental Profiles ratings and Greenbook live registration, BRE issued for the Durable and FS-Xtra composition an ECO_EPD in accordance with EN 15804.

The influence on air quality and release of dangerous substances to soil and water has been determined to achieve the European Technical Assessment. The analysis showed Rockpanel boards contain no dangerous materials such as biocides; the manufacture of Rockpanel boards does not involve the use of flame retardents or cadmium. The formaldehyde concentration is ≤ 0.0105 mg/m³ which relates to formaldehyde class E1.

Packaging

The panels are provided with a protective film on the decorative face (with the exception of Rockpanel Metallics White Aluminium/Grey Aluminium, Natural, Lines² and Structures) and are delivered on pallets and with a protective cover and edge protection. The panels must be stored on a dry sub-soil and protected against rain, preferably under a cover. Pallets shall be stacked no more than two pallets high. The panels should be lifted upward when being handled and should not be slid over one another. Protective foam membranes should be placed between the sheets again to protect the surface layer, for example when the panels are stacked after having been sawn.

Visual appearance

Surface quality: Rockpanel boards are produced with the utmost care and individually checked before being approved. In the event of doubts the panels are judged visually for aesthetic flaws, in daylight, without sight enhancements, from a distance of at least 5 metres in front of the surface of the façade element, with an observation angle of 45° (horizontally/vertically).

Batches: Rockpanel boards are produced using incoming inspection, process assurance and quality control by which Rockpanel Colours boards in RAL/NCS colours out of different batches can be combined. However for all other products and for project related orders, the whole order for a given project must be ordered as a single batch.

Maintenance

Depending on the surface treatment, the boards can be cleaned with ordinary cleaning agents such as car shampoo dissolved in lukewarm water. Organic solvents for boards with the ProtectPlus finish are in general also allowed (such as white spirit and acetone), however consult Rockpanel for the correct application method. To remove graffiti, Rockpanel can supply a special cleaner.

The Rockpanel Natural boards can be cleaned with a brush. Stubborn polution can be removed with a wire brush. The cleaned spot will then become visible and weather again. Do not clean Rockpanel Natural with a solvent or detergent.

Rockpanel Premium

Within our detailed product information section you can read about the impact resistance, suitable sub frames, fire properties and the specified fixings. Also visit www.rockpanel.co.uk for additional information on Rockpanel board material, such as a complete overview of the Rockpanel assortment, guidelines for processing and installation, specifications text, health and safety and application.

Impact resistance

Categories	FS-Xtra	Test / classification method
Hard body (1 J)	IV	
Hard body (3 J)	III, II, I	
Hard body (10 J)	II, I	ISO 7892: 1988
Soft body (10 J)	IV, III	

Application for full boards, for a complete overview and description, please consult the relevant European Technical Assessment.

Suitable sub frames

Rockpanel Premium in FS-Xtra quality can only be attached to a sub frame of aluminium or steel. The minimum thickness of the vertical aluminium profiles is 1.5 mm.

The aluminium is AW-6060 according to EN 755-2. The Rm/Rp0.2 value is 170 /140 for profile T6 and 195/150 for profile T66. The minimum thickness of the vertical steel profiles is either 1.0 mm (steel quality is S320GD +Z EN 10346 number 1.0250, or equivalent for cold forming), or 1.5 mm (steel quality EN 10025-2:2004 S235JR number 1.0038).

Properties in relation to fire

Product Grade	Fixing method	Construction build-up	Vertical sub frame***	Classification
FS-Xtra 9 mm	Mechanically fixed	Ventilated with ≥ 40 mm cavity	Aluminium or steel sub frame	A2-s1,d0

*   For a complete overview and description of the end use situation in which the classification is determined, please consult the relevant European Technical Assessment.

Fixings specified for use with Rockpanel Premium

Rockpanel Premium	Rivet[1]			
	✓	✓	✓	✓
Code	AP14-50180-S	1290406	SSO-D15-50180	1290806
Sub frame[2]	Aluminium sub frame	Aluminium sub frame	Steel sub frame	Steel sub frame
Thickness subconstruction[2]	≥ 1,5 mm	≥ 1,8 mm	≥ 1,0 mm	≥ 1,5 mm
Material (body)	EN AW-5019 (AlMg5) according EN 755-2	EN AW-5019 (AlMg5) according EN 755-2	Stainless steel material nr. 1.4578 according EN 10088	Stainless steel material nr. 1.4578 according EN 10088
Length	18 mm	18 mm	18 mm	16 mm
Shank diameter	5 mm	5 mm	5 mm	5 mm
Head diameter fixing	14 mm	14 mm	15 mm	14 mm
Hole Ø fixed point	5,2 mm	5,2 mm	5,2 mm	5,2 mm
Hole Ø moving point	8,0 mm	8,0 mm	8,0 mm	8,0 mm
Hole Ø slotted point	5,2 x 8,0 mm	5,2 x 8,0 mm	5,2 x 8,0 mm	5,2 x 8,0 mm

[1] For correct fixing, use riveting tool with rivet spacer
[2] In accordance with paragraph "Suitable sub frames"

European Technical Assessment (ETA)

Declarations of Performance (DoP)

European Technical Assessment ETA-13/0340:	Rockpanel FS-Xtra 9 mm finish Colours / Rockclad or ProtectPlus	0764-CPR-0240

Additional information

The product data sheet Rockpanel Premium clearly specifies the general product properties and is not related to national building regulations. Relevant information about the application of Rockpanel boards related to national building regulations or national guidelines can be found in the Rockpanel instruction guide and on the Rockpanel website. The Rockpanel instruction guide and the website also provide fixing tables related to national annex of the EN 1991-1-4.

Published October 2017. This publication supersedes and replaces all previous datasheets. Subject to alterations. All data are intended to serve as general information about our products and their possible uses. This publication is an extract of the European Technical Assessment, which is the only legally binding document. ROCKWOOL B.V. / Rockpanel disclaims any liability towards possible (typing) errors and incomplete information in this product data sheet. No rights may be derived from the content of this publication.

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