Rockpanel®

Part of ROCKWOOL Group

Product Data Sheet Rockpanel Stones







Rockpanel Stones

Key product data

Product description

With Rockpanel Stones we offer both smooth and textured surfaces in a palette of natural colours such as chalk and limestone. It also comes with the flexibility and versatility in terms of freedom of design, fire resilience and ease of use.

Assortment

Product line	Board composition	Thickness	Standard dimensions
Rockpanel Stones	A2 8 mm	8 mm	1200/1250 x 2500/3050 mm
	A2 9 mm	9 mm	1200/1250 x 2500/3050 mm

Surface

The surface of Rockpanel boards is treated with layers of water-borne polymer emulsion primer and paint on one side. The additional protective coating called ProtectPlus comes standard. This layer provides extra protection against things like UV light and graffiti.

Fire safety

Rockpanel boards offer high performance when assessed for reaction to fire. Due to the nature of the stone wool fibres and the low binder content the boards have a low calorific value, this means that they will hardly contribute to a fire when exposed. As a result, the addition of environmentally unfriendly flame retardants is not needed. The Rockpanel products are tested in accordance with the European harmonized technical specification (EAD 090001-00-0404 and EAD 090001-01-0404) and are classified in accordance with EN 13501-1. The Euroclass classification of all Rockpanel products is based on testing with non-combustible mineral wool insulation. For the field of application covered by the classification, please see the relevant Declaration of Performance.

For high-rise and high-risk buildings, Rockpanel recommends the application of non-combustible (Euroclass A1 or A2-s1,d0) cladding and insulation.

Key product properties

Rockpanel Stones	A2 8 mm	A2 9 mm	Unit	Test/classification method
Optical properties				
ProtectPlus	4	4	Class on greyscale	ISO 105 A02
Fire				
Fire classification	A2-s1,d0	A2-s1,d0	Euroclass	EN 13501-1
Physical properties				
Weight	9.4	11.25	kg/m2	EN 323
Density, nominal	1170	1250	kg/m3	EN 323
Thermal conductivity	0.47	0.55	W/m·K	EN 10456
Water vapour permeability Colours ProtectPlus 23 °C and 85 % RH	< 3.2	NPD	m	EN 12572
Cumulative dimensional change length %	0.072	0.064	%	EN 438-2
Cumulative dimensional change width %	0.072	0.064	%	EN 438-2
Mechanical properties				
Bending strength, length and width	≥ 27	≥ 25.5	N/mm2	EN 310 / EN 1058
Modulus of elasticity	≥ 4015	≥ 4740	N/mm2	EN 310

Rockpanel Stones

General product information

Rockpanel is recognised for its blend of natural qualities that make it a unique choice for exterior cladding and other architectural applications. Derived from the abundantly available rock, basalt, Rockpanel possess inherent natural properties that contribute to their durability, sustainability, fire resilience, ease of installation and aesthetic versatility.

Sustainability and environment

Rockpanel boards have a third-party verified Environmental Product Declaration (EPD), in all according to the EN15804, where we transparently communicate the environmental performance of our products.

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 retardants or cadmium. The formaldehyde concentration is 0.0105 mg/m³ which relates to formaldehyde class E1.

Packaging

Rockpanel boards are covered by a film to protect the decorative finish. Site measurements can also be marked on this film to aid the installation process. If you're marking anything on protective film, it's advisable to test the pen on a sample board first. This step ensures compatibility and helps prevent potential bleeding through. Some permanent markers may bleed through the film, so a preliminary test can save you from any unwanted surprises. Remove the protective film:

- directly after mounting, if attaching mechanically with screws or manual nailing;
- before priming the board for adhesive bonding, not required but recommended;
- before installing when using a pneumatic hammer.

The protective film can be recycled.

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. For project related orders, the whole order for a given project must be ordered as a single batch.

Maintenance

Rockpanel products generally require low maintenance, primarily needing only rain for cleaning. However, in cases where additional cleaning is necessary, such as from bird droppings or tree residue, annual inspections and occasional cleaning with mild, non-solvent based products are recommended. The products can be cleaned with lukewarm water and mild cleaning agents and can even handle anti-graffiti cleaners if needed.

It is crucial to follow cleaning agent manufacturer instructions, conduct suitability tests on inconspicuous areas and avoid abrasive or high-pH cleaning agents. Always clean from top to bottom and avoid cleaning in extreme temperatures or direct sunlight. For more detailed cleaning and maintenance instructions visit our download section at www.rockpanel.co.uk/support/resources/.

Rockpanel Stones

Detailed product information

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	A2 8 MM	A2 9 MM	Test / classification method
Hard body (1 J) without horizontal joint	III	IV	ISO 7892: 1988
Hard body (3 J) without horizontal joint	III	I, II, III	
Hard body (10 J) without horizontal joint	III	I, II	
Soft body (10 J) without horizontal joint	III	III, IV	
Soft body (60 J) without horizontal joint	III	I, II	

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

Suitable sub frames

Rockpanel boards can be attached to the building by fixing to a sub-frame of timber or metal, in all according ETA. The vertical timber battens should have a minimum thickness of 25 mm or 28 mm (depending on ETA). The minimum thickness of the vertical aluminium profiles is 1.5 mm for rivets and 1.8 mm for screws. The aluminium is minimum 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 S280GD or S320GD (depending on ETA) +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	Vertical subframe***	Construction build-up	Fixing method	Classification
A2 8 MM	Wooden sub frame	Ventilated with EPDM gasket*	Mechanically fixed	A2-s2,d0
	Wooden sub frame	Non-ventilated, cavity filled with mineral wool**	Mechanically fixed	A2-s1,d0
	Aluminium or steel subframe	Ventilated	Mechanically fixed	A2-s1,d0
	Wooden sub frame	Ventilated with Rockpanel strips (8 mm) on the battens	Bonded	A2-s1,d0
	Aluminium or steel subframe	Ventilated	Bonded	A2-s1,d0
A2 9 MM	Aluminium or steel subframe	Ventilated with minimum 20 mm cavity	Mechanically fixed	A2-s1,d0
	Wooden sub frame	Ventilated with EPDM gasket*	Mechanically fixed	A2-s2,d0
	Aluminium sub frame	PlankClip	Mechanically fixed	A2-s1,d0
	Wooden sub frame	PlankClip	Mechanically fixed	A2-s1,d0

* Gasket/strip 15 mm wider at both sides than the batten.
** Check the pre-conditions for non-ventilated constructions or consult Rockpanel.
*** 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

	Torx screw	Rivet 18 SFS Aluminium	Rivet 18 SFS Stainless Steel A4	Rivet 18 MBE Aluminium	Rivet 18 MBE stainless steel	Ring-shank nail, High Performance	Screw for steel, clamping depth 9 mm	Screw for steel, clamping length 19 mm	Self-drilling screw for aluminium
A2 8 mm	+	+	+	+	+	+	+	+	+
A2 9 mm	+	+	+	+	+	-	+	+	+
Fixing code		AP14-50180-S	SSO-D15-50180	FN-Al5-5x18 K14	FN-A4-5x18 K15		JT6-FR-3-5.5 x 25	JT6-FR-3 -5,5 x 35	SDA4-D15-CS10/8-5.8x29-A4
Sub frame	Wooden	Aluminium	Steel	Aluminium	Steel	Wooden	Steel	Steel	Aluminium
Thickness sub construction (mm)	≥ 28	≥ 1.5	≥ 1.0	≥ 1.5	≥ 1.0	≥ 28	≥ 1.0	≥ 1.0	≥ 1.8
Material (body)	Stainless steel nr. 1.4401 or 1.4578 in accordance with EN 10088	Aluminium EN AW-5019 (AlMg5) in accordance with EN 755-2	Stainless steel nr. 1.4571 in accordance with EN ISO 3506	Aluminium EN AW-5019 (AlMg5) in accordance with EN 755-2	Stainless steel nr. 1.4571 in accordance with EN ISO 3506	Stainless steel nr. 1.4401 or 1.4578 in accordance with EN 10088	Stainless steel A4 in accordance with EN ISO 3506	Stainless steel A4 in accordance with EN ISO 3506	Stainless steel A4 in accordance with EN ISO 3506
Length (mm)	35	18	18	18	18	35	25	35	29
Shank diameter (mm)	3.3 - 3.4	5	5	5	5	2.7	4.3	4.3	4.5
Head diameter fixing (mm)	9.6	14	15	14	15	6	12	12	15
Hole diameter fixed point (mm)	3.2	5.2	5.2	5.2	5.2	2.5	4.3	4.3	5.8
Hole diameter moving point (mm)	6.0	8.0	8.0	8.0	8.0	3.8	8.0	8.0	10.0
Hole diameter slotted point (mm)	3.4 x 6.0	5.2 x 8.0	5.2 x 8.0	5.2 x 8.0	5.2 x 8.0	2.8 x 4.0	4.3 x 8.0	4.3 x 8.0	-

For correct fixing with rivets, use riveting tool with rivet spacer.
Sub-frame parameters in accordance with paragraph "Suitable sub-frames".

Fixing distances

Maximum fixing distances (mm)	A2 8 MM		A2 9 MM	
	b max.	a max.	b max.	a max.
Nail	600	400	N/A	N/A
Screw	600	600	600	600
Rivet	600	600	600	600
Bonding	600	uninterupted bonding line	N/A	N/A

European Technical Assessment (ETA)

Declarations of Performance (DoP)

ETA-24/0910	Rockpanel A2 8 mm finish Colours, Ply and ProtectPlus	0764-CPR-0388
ETA-13/0340	Rockpanel A2 9 mm finish Colours, Structures and ProtectPlus	0764-CPR-0317
ETA-24/0911	Rockpanel A2 9 mm finish Colours, Structures and ProtectPlus, applied with PlankClip system	

Additional information

This product data sheet clearly specifies the general product properties and is not related to national building regultions. 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.

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www.rockpanel.co.uk