

Rockpanel Ply is a pre-primed rock-fibre panel. Rockpanel Ply enables you to finish your building off in a very durable way with a traditional exterior. The application of the aesthetic final layer onto the Rockpanel Ply can be carried out manually on site, prior to or post installation.



ROCKPANEL PLY	DURABLE			
	1200		1200	
Panel width in mm	1200			
Panel thickness	6	8	10	
Panel dimensions	2500	3050	2500	3050
Thickness tolerance	+0,5/-0,5			
Length/width tolerance	+2/-2			
Diagonal tolerance	≤ 4			
Nominal volumetric mass kg/m ³	1050 + 150/-150			
Nominal mass of surface kg/m ²	6	8	10	

DURABLE: Rockpanel panels for general applications.

Construction

Rockpanel Ply comprises of a Rockpanel basic panel provided with a lightgrey-pigmented first coat for finishing on the building site or in a paint shop. The panel is completely water-repellent.

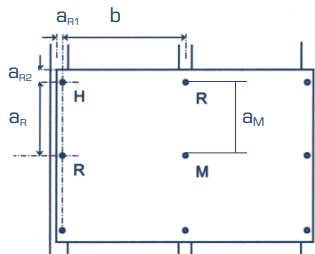
Factory undercoat

The visible side is provided with a water-based undercoat. The end edges do not require a finish as the panels do not absorb water and cannot delaminate. For aesthetic reasons these edges can however be painted, with a water-based paint for example.

Fastenings/line work/framework

For attaching Rockpanel Ply various fastenings can be used, such as:

- Non-visible mechanical fastenings (concealed by filling)
 - Rockpanel stainless steel AISI 316 ring nails, 27 mm long
- Adhesive fastening
 - Rockpanel Tack
- Visible mechanical fastenings
 - Rockpanel stainless steel AISI 316 ring shank nail, 32 mm long
 - Rockpanel stainless steel AISI 316 torx screw, 35 mm long with split thread



Panel spans and fastening intervals at least 2 fields and 3 fastenings per batten. For single-field and/or two fastenings per timber batten consult Rockpanel

Maximum centre-to-centre distances of a and b.

Rockpanel Ply		UK site altitude $\leq 50\text{m}$ [b]/ventilation $\mu^e < 0,1 \%$ / basic windspeed $V_b \leq 24\text{m/s}$ [c]						
		Closest distance to sea [km]						
		0 km	10 km	≥ 100 km	0 km	10 km	≥ 100 km	
Nominal panel thickness in mm		6			8			
Timber batten distance b in mm		300			500			
Rockpanel ring shank nails 2, 1/2, 3 x 27 mm	a_M	≤ 10	155	165	190	95	100	115
		≤ 15	145	150	170	85	90	100
		≤ 20	140	140	160	a	a	95
	a_R	≤ 10	300	300	300	235	250	285
		≤ 15	300	300	300	220	225	255
		≤ 20	290	290	300	210	210	240

- a: one or more basic requirements not fulfilled
 b: for a higher site altitude consult Rockpanel
 c: in case of a higher basic windspeed V_b consult Rockpanel

This data applies to facades.

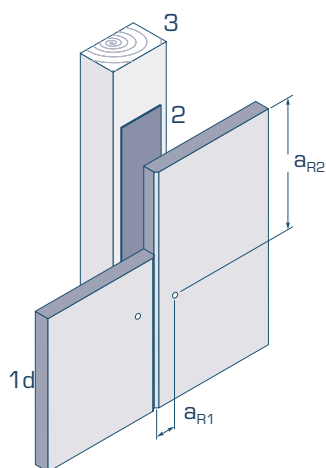
Rockpanel Ply		UK site altitude $\leq 50\text{m}$ [b]/ventilation $\mu^e < 0,1\%$ / basic windspeed $V_b \leq 24^m/s$ [c]						
		Closest distance to sea [km]						
		0 km	10 km	≥ 100 km	0 km	10 km	≥ 100 km	
Nominal panel thickness in mm		6			8			
Timber batten distance b in mm		300			500			
Rockpanel ring shank nails 2,7/2,9 x 32 mm	a_M	≤ 10	155	165	190	135	145	165
		≤ 15	145	150	170	125	130	150
		≤ 20	140	140	160	120	120	140
	a_R	≤ 10	300	300	300	345	365	400
		≤ 15	300	300	300	320	330	370
		≤ 20	290	300	300	300	305	345
Rockpanel screws 4,5 x 35 mm	a_M	≤ 10	215	230	265	205	215	250
		≤ 15	200	210	235	190	195	220
		≤ 20	190	190	220	180	180	205
	a_R	≤ 10	300	300	300	410	435	495
		≤ 15	300	300	300	380	390	445
		≤ 20	300	300	300	360	365	415

- a: one or more basic requirements not fulfilled
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 c: in case of a higher basic windspeed V_b consult Rockpanel

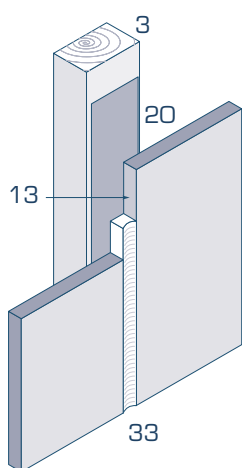
For mechanical fastening use wooden battens or wooden frameworks with a thickness of at least 28 mm for the ring shank nails. Width 45 mm at an intermediate support and at least 70 mm at a vertical joint. (Timber quality in accordance with the BBA approval for Rockpanel Colours Durable and Rockpanel Durable ProtectPlus panels) The stainless steel AISI 316 fastenings can also be used in a chlorine-rich environment, such as the coast.

Finish

The sawn edges do not require finishing. Rockpanel Ply can be finished with various systems f.i. PPG & Sigma Coatings.



Detail 1-209



Connections

Jointless and with sealant.

- 1d. Rockpanel Ply
2. Weather-resistant joint sealing gasket
3. Lathing, dimensions 34 x 45 mm and 34 x 70 mm at the seams (for the ring shank nails the minimum thickness is 28 mm)
- 13 Simson Primer MSP Transparent
- 20 Anti-adhesive layer, e.g. strip PE film
- 33 Sealant: e.g. Simson HybridTop (paintable)
- a_{R1} Edge distance min. 15 mm
- a_{R2} Edge distance min. 50 mm

Ventilation of the rear structure

The rear structure must be ventilated by means of ventilation openings of at least 1000 m²/m¹ of the facade length at the top and bottom of the cladding. Openings min. 5 mm and max. 10 mm deep; length e.g. 50 mm.

Rockpanel Ply can be assembled without joints (see detail 1-209), with a open joint, or with putty. In jointless assembly the plates are provided with a bevelled edge. In the case of jointless finishing and open joints the timber at the rear must be protected with a flat UV and weather-resistant joining strip. In applications with open horizontal joints consult the Technical Design Guide. In sealant applications do not use silicone sealant (repels paint!), but paintable and/or over-paintable sealant such as Simson HybridTop. The sawn edges should be pre-treated with Simson Primer MSP Transparent to prevent adhesion to the structure, a PE strip must be used.

Physical properties

Dimensional stability length/width EN 438-2	
Dimensional stability (m/m°C):	11x10 ⁶
Dimensional stability per 10% change RH (m/m):	8x10 ⁵
Water uptake via the sawn edge after 28 days:	
at 20°C and 65% RH:	< 1.3%
at 2°C and 90% RH:	< 0.2%

Fire properties

Anticipated classification by fire test of Rockpanel Ply	
EURO fire class	A2
Smoke development rate SMOGRA:	s2
Burning particles:	d0
This anticipated classification is based on the experience:	
Fixing panels onto vertical timber battens:	400 mm
Type of fastening:	Rockpanel nails or screws
Vertical joint sealing:	EPDM self-adhesive foam gasket
Horizontal joint sealing:	Alu chair section profile
Ventilated or Non ventilated:	Ventilated
Vertical fixing centres:	400 mm

This means that Rockpanel Ply 'hardly contributes' to a fire and in practice is 'practically non-flammable'.

Mechanical properties

Characteristic bending tensile strength in N/mm ² EN 310 and EN 1058:	≥ 12
Failure bending strength in N/mm ² EN 310	≥ 4
Elasticity module bending, after statistic N/mm ² EN 310, E ₀₅	2450

Workability

Rockpanel Ply can be easily sawn with tools with a 300 mm Ø 48 widia tooth circular saw.

For sawing recesses and contours a jigsaw with a tungsten-grained toothed blade can be used (e.g. Bosch type T150 RIFF or AEG type K50:932-213232).

Storage

Store the Rockpanel in a dry place on flat pallets. Do not place more than 2 pallets on top of each other (irrespective of the thickness).

Rockpanel accessories

Ring shank nails for visible fastening:

- Rockpanel stainless steel AISI 316 ring shank nails 32 mm long

Ring shank nails for non-visible fastening:

- Rockpanel stainless steel AISI 316 ring shank nails 27 mm long

Joint gasket:

- PVC-gasket with low groove
 - width 36 mm:
 - width 60 mm
- EPDM self-adhesive foam gasket
 - width 36 mm:
 - width 60 mm

Sealant: Simson HybridTop

Paint finish advice: For paint advice we refer to our website: www.rockpanel.co.uk

Maintenance

The method and manner of cleaning are determined by the type of finish. In general it is recommended that the facade is cleaned once a year with, for example, a 'car shampoo' or an 'all-purpose' cleaner. When cleaning facades use a ladder with a distributor at the contact point.

Suppliers

All Rockpanel distributors.

All accessories such as screws, nails, adhesive, joining strip, profiles etc can be ordered via the Rockpanel distributors. Edge paints via Plastestrip Profiles (tel: 0172674771) .

Distribution

Rockpanel Ply can be obtained from Rockpanel distributors in the UK.

United Kingdom

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