

# Instruction Guide

Guidelines for processing and  
installation of external cladding



Rockpanel<sup>®</sup>  
a **ROCKWOOL** company

[www.rockpanel.co.uk/itispossible](http://www.rockpanel.co.uk/itispossible)

# TABLE OF CONTENTS

GENERAL	4
INTRODUCTION TO ROCKPANEL	4
IT IS POSSIBLE! WITH ROCKPANEL	6
USING ROCKPANEL	8
PACKAGING, TRANSPORT AND STORAGE	8
WORKING WITH ROCKPANEL	10
SUB FRAME	14
JOINTS AND BOARD CONNECTIONS	19
FIXING	22
DISTANCES BETWEEN FASTENING POINTS	27
MAINTENANCE	37
DETAILING	38
FACADE	38
ROOFLINE	41
DETAILING	43
NON-VENTILATED APPLICATIONS	45
STANDARD RANGE AND AVAILABILITY	46
BOARDS	46
ACCESSORIES	48
PRODUCT PROPERTIES	50

# GENERAL

## INTRODUCTION TO ROCKPANEL

Rockpanel Group is part of the Rockwool International A/S Group. The company manufactures board material for exterior cladding from the sustainable resource, basalt rock. Rockpanel® products combine all the benefits of stone and wood.

Where other board materials fail, Rockpanel succeeds. It's quick and easy to work, durable and attractive - which is why we say: Rockpanel; It is possible!

Rockpanel is ideally suited to both new build and renovation projects in areas such as:

- facades;
- roofline applications: like roof edging, -projections, gutter finishing, dormers, fascia boards or parapets;
- other detailing such as on ceilings, entrances and infilling panels

### Certification and warranties

Rockpanel products comply with British Standards and are BBA approved. Certificate 4168; Rockpanel Rockclad durable and Rockpanel durable anti-graffiti panels. Rockpanel can provide project specific warranties. More information can be obtained via your Rockpanel dealer.

### Rockpanel grades

The basic board material is available in two different grades.

- **Durable:** for use in regular facade and roofline applications.
- **Xtreme:** for use in facade applications when a greater degree of strength is required. For instance to withstand higher wind loadings or impact resistance.

**Note:** Rockpanel Ply is a product in the Rockpanel assortment which has other mechanical properties than the Durable or Xtreme grades.

### Properties

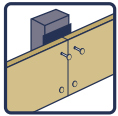
See page 6 and 7 for all the advantages which Rockpanel has to offer. A list with product characteristics and technical approvals can be found at page 50 and 51.

### Product range

Rockpanel board material is available in a range of different colours and designs. See page 46 and 47 for the standard range.

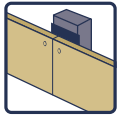
- **Rockpanel Rockclad:** a board available in all RAL/NCS colours.
- **Rockpanel Ply:** board material with a primer coat, ready for painting on site.
- **Rockpanel Metallics:** facade cladding with a metallic topcoat for a striking industrial character.
- **Rockpanel Chameleon:** extraordinary facade panels which appear to change colour depending on the effect of light and the angle from which it is viewed.
- **Rockpanel Woods:** board material for a natural, non repetitive wood grain pattern.
- **Rockpanel Natural:** unpainted board material where the colour changes under the influence of natural weathering to grey-brown.
- **NEW Rockpanel Lines<sup>2</sup>:** the Lines<sup>2</sup> 10 mm tongue-and-groove cladding boards can be mounted in the traditional way, using nails or flat-top screws. Lines<sup>2</sup> 8 mm can also be fixed in a more innovative way, using the new mounting clip. The Lines<sup>2</sup> panels are available in different widths as Lines<sup>2</sup> XL and Lines<sup>2</sup> S versions.

## IT IS POSSIBLE! WITH ROCKPANEL



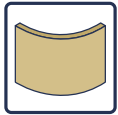
### Installing Rockpanel with nails? It is possible!

With Rockpanel you can install the boards with nails on the building site. The small nail heads in a compatible RAL colour ensure a beautiful end result.



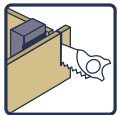
### Installing Rockpanel seamlessly? It is possible!

Rockpanel is dimensionally stable, and therefore resistant to changes in length and width arising from changes in temperature and humidity. This Guarantees a sleek and seamless result. See page 19 for the conditions of a seamless installation.



### Rockpanel strong but flexible? It is possible!

Rockpanel combines the advantages of stone and wood in one product. It is as durable as stone and can be worked as easily as wood. Rockpanel combines the advantages of stone and wood in one product. It is as durable as stone and can be worked as easily as wood. A slightly curved facade can easily be applied.



### Rockpanel detailing on the building site? It is possible!

With Rockpanel you can complete detailing quickly and easily. Detailing and sawing to size? It's so easy. You don't even need to finish the edges to protect them from moisture.



### Rockpanel always in matching colours? It is possible!

The RAL colours of Rockpanel match window frames or other building elements. Facade finishing and paintwork in compatible RAL colour can therefore give your building a smooth and seamless look.



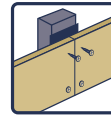
### Colours that stay beautiful? It is possible!

Rockpanel is colourfast and low-maintenance. Clean once a year with water and the facade looks fresh for years to come!



### Rockpanel insensitive to moisture? It is possible!

Edge treatment to protect the edges from moisture is needed with many other board materials or laminates. Rockpanel is insensitive to moisture and temperature so does not require edge treatment.



### Installing Rockpanel without pre-drilling? It is possible!

With Rockpanel you save time and money and avoid risks and costly delays. Just install on site without pre-drilling. This ensures fewer mistakes, a better finish and no drilling costs for you to pay.



### Rockpanel truly lightweight? It is possible!

With Rockpanel board material you can work more quickly and easily. You can save time and make installation easier for site personnel. The boards are considerably lighter than other board materials. Making a real difference to those installing them!

- Rockpanel board material 6 mm = 6.3 kg/m<sup>2</sup>
- Rockpanel board material 8 mm = 8.4 kg/m<sup>2</sup>



### Working Rockpanel with standard tools? It is possible!

Rockpanel can be worked using standard tools. It is easier and much faster to work than other board materials. Easy to saw to size and install without pre-drilling again avoiding risks and costly site delays.



### Rockpanel has a corner solution for every detail? It is possible!

For every corner Rockpanel offers the right solution. Use a corner profile in exactly the same RAL colour, or simply touch up paint for the edges if required. For the real craftsman you can achieve a perfect corner finish using a mitre saw.

# USING ROCKPANEL

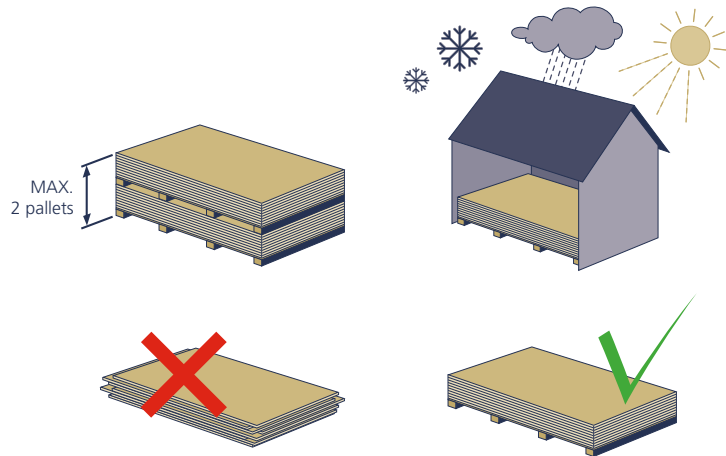
## PACKAGING, TRANSPORT AND STORAGE

### General

- Rockpanel board material is a decorative external cladding product. Always handle the boards with care.

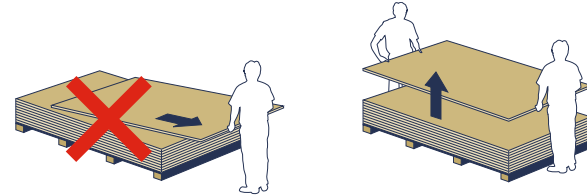
### Storage

- Store the board material in dry, flat, frost-proof and protected conditions;
- Store on flat pallets and place the pallets on a level foundation. Preferably with PE-foil as an underlay;
- Never stack more than two pallets on top of one another.
- During storage, the board material can be more affected by moisture and night-time cooling than when installed. Before installing, the boards will need some time to allow any moisture and condensation to evaporate.



### Site handling

- Individual panels must be lifted off the stack, not pulled or pushed, and carried upright;
- Protective foam membranes should be placed between the sheets again to protect the surface layer.



### Protective film

- Most boards in the range are covered by a film to protect the decorative finish. Site measurements can also be marked on this film to aid the installation process. Rockpanel Natural, Rockpanel Lines<sup>2</sup>, Rockpanel Metallics (Aluminium White and Aluminium Grey) and Rockpanel Structures are delivered without protective film. Handling of these boards needs extra attention.
- Remove the protective film:
  - after mounting, if attaching mechanically with screws or manual nailing;
  - before priming the board for adhesive bonding;
  - before installing when using a pneumatic hammer.

## WORKING WITH ROCKPANEL

Rockpanel board material is a safe product to work with. Produced from basalt, a natural and sustainable volcanic stone. Stone wool is one of the most extensively researched and tested building materials. For additional information see the 'Health and safety' documentation on [www.rockpanel.co.uk](http://www.rockpanel.co.uk).

### Sawing

Standard woodwork tools can be used for sawing Rockpanel boards or making cut-outs in the board material. In general the boards should be sawn with the decorative side facing upwards and with the protective film still in place.

### Equipment

- Hand saw, e.g. a hard point saw.
- Circular saw, e.g. a fine-toothed Widia saw blade.
- Fretsaw, e.g. a fine-toothed saw blade for metal or a saw blade with tungsten coating.

### Safety guidelines

- Use a dust mask (type P2)
- Use standard safety spectacles to protect the eyes from dust.
- Wear gloves during sawing.



### Indoor sawing

- Use dust-reducing sawing equipment in combination with an extraction hood in a well-ventilated room.

### Outdoor sawing

- Position the saw installation so that the wind blows away any dust from the sawing.
- Use dust-reducing sawing equipment if possible.

### Drilling

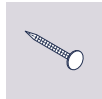
- Pre-drilling is not necessary with Rockpanel. If desired screw holes or holes for nailing can be pre-drilled with a HSS-steeldriller  $\varnothing$  2.5 mm.
- With rivets, fixed anchorages are advised to be drilled at  $\varnothing$  5.2 mm and a sliding attachment with  $\varnothing$  9 mm. Pre-drilling can be done with a HSS-steeldriller.
- When fixing Rockpanel Lines<sup>2</sup> 10 mm Rockpanel recommends the use of flat headed screws or manual nailing with ring shank nails. When using the 2.1/2.3 x 27 mm ring shank nails pre-drilling to  $\varnothing$  2 mm is recommended. When using 3.5 x 35 mm stainless steel flat headed screws, pre-drilling to  $\varnothing$  3.5 mm is recommended and also drilling to countersink the flathead.

### Screwing

Rockpanel board material and Rockpanel Lines<sup>2</sup> can be fixed mechanically with nails or screws. With a timber sub frame and mechanical fastening with screws, the boards do not have to be pre-drilled before installation. The boards can be mechanically installed on the construction site.



Screw Ø 9.6 mm



Nail Ø 6.0 mm

### Nailing

Nailing can be done by hand with a nylon hammer or with a pneumatic hammer.

#### Manual

For the best end result, Rockpanel recommends that the boards are pre-drilled at the correct distances with Ø 2.5 mm.

#### Pneumatic hammer

Ensure that the type of pneumatic hammer is appropriate for the chosen nail (e.g. the Max Coil Nailer 450). Adjust for the right operating pressure: compressor around 10 bar and hose to the pneumatic hammer around 7 bar. Press the pneumatic hammer firmly and at an angle of 90° onto the board, in order to prevent double striking. Nails which are not hammered in deeply enough can be further hammered manually with a soft headed nylon hammer.

### Fixing Rockpanel Lines<sup>2</sup> tongue-and-groove panels

The Lines<sup>2</sup> 10 mm cladding boards can be mounted in the traditional way, using nails or flat-top screws. However, Lines<sup>2</sup> 8 mm can also be fixed in a more innovative way, using the new mounting clip. Both methods of installation can be used for both Lines<sup>2</sup> S and Lines<sup>2</sup> XL.

#### Traditional installation Lines<sup>2</sup> 10

The Lines<sup>2</sup> 10 mm tongue-and-groove panels can be fixed invisibly using Rockpanel ring shank nails or flat-top screws, which results in a traditional groove effect.

#### Innovative installation Lines<sup>2</sup> 8

To make the fixing of tongue-and-groove panels easier and 'secret fix', Rockpanel has developed an innovative new clip. The clip ensures that the supporting structure is ventilated more effectively, reducing damp retention and thus increasing the structure's durability.

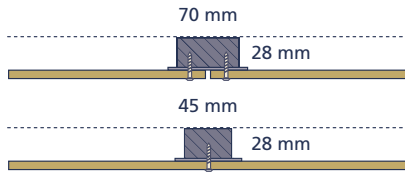
#### No edge finishing

- Finishing sawn edges from moisture is not needed with Rockpanel boards.
- Chamfering is easy using the reverse (non decorative) side of a leftover Rockpanel strip to lightly sand the edge.
- If required for aesthetic reasons the side edges can be painted in a corresponding RAL/NCS colour. Without finishing the edges naturally age within several months to a grey-brown colour.

## SUB FRAME

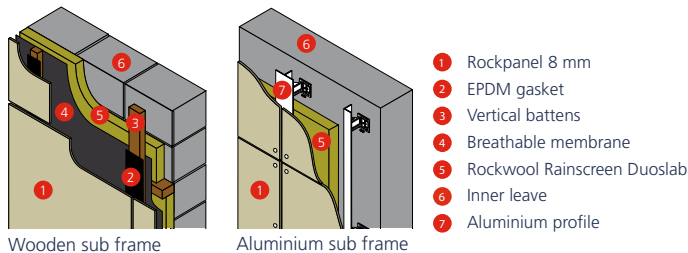
### Wooden sub frame

Timber stud walls and timber battens fixed to masonry walls should be constructed in accordance with BS 5268-2: 2002 and preservative treated in accordance with BS 5268-5: 1989 and BS 8417: 2003. Studding and framing should be adequately supported by noggings to ensure rigidity. Where timber stud walls or battens are treated with cuprous preservatives, care must be taken to ensure that sufficient time is allowed for the preservative to properly condition before the cladding is fixed.



### Aluminium sub frame

- The aluminium alloy is AW-6060 according to EN 755-2:
  - Rm/Rp0.2 value is 170/140 for profile T6
  - Rm/Rp0.2 value is 195/150 for profile T66
- The minimum thickness of the profile is 1.5 mm.



Wooden sub frame

Aluminium sub frame

### Ventilated constructions

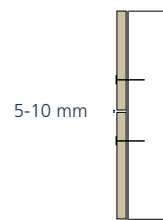
It is typical for this kind of facade that the outer facade is constructed as a cavity wall with an inner and an outer layer, resulting in a ventilated space between the facade cladding and the insulation. There are two possibilities: an open or closed construction.

### Open facade

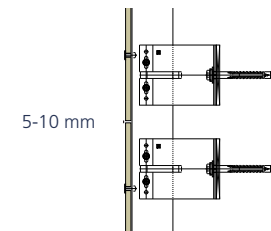
#### Horizontal Joints

With an open facade, the horizontal joints should have a joint of a minimum 5 mm and maximum 10 mm width.

- When using open joints in a **wooden construction**, the structure behind the vertical batten should be protected with a breathable, water repellent and UV resistant membrane. The cavity behind the Rockpanel board and between the breathable membrane should be a minimum of 20 mm or greater to say the thickness of the battens in order to drain rainwater. For those panel systems requiring NHBC approval, a cavity of 35 mm is required.
- With an **aluminium construction** Rockpanel recommends a cavity depth of 60 mm. The insulation should comply with the standard BS-EN-13162 e.g. Rockwool Rainscreen Duoslab. For more information see [www1.rockwool.co.uk/sw53874.asp](http://www1.rockwool.co.uk/sw53874.asp)



Wooden substructure, open horizontal joint



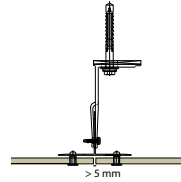
Aluminium substructure, open horizontal joint

**Vertical Joints**

The vertical joints are automatically closed by the backing of the vertical substructure. To ensure the durability of the wood, the vertical slats must be well protected against rain water. This can be done with a UV- and weather-resistant joint sealing strip that is 15 mm wider on both sides than the framework. It can also be done with a strip of Rockpanel, which acts as gasket to protect the battens.



Wooden substructure, vertical joint solution

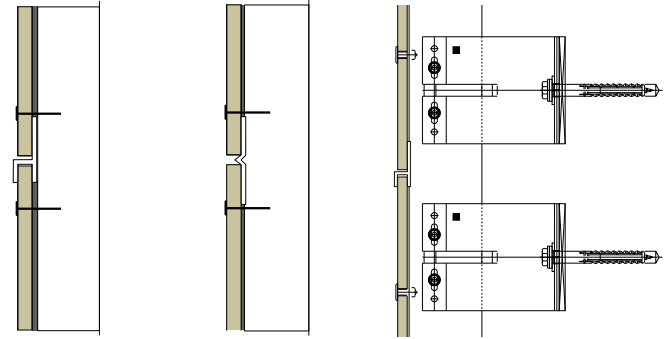


Aluminium substructure, vertical joint solution

**Closed facade**

**Horizontal Joints**

For a closed facade the horizontal joints are closed with a profile, usually a chair or nose profile (semi-closed). Thus the rainwater is drained off as much as possible on the outer side of the cladding. The supporting structure must be ventilated in accordance with BS8200:1985. For example retaining a 20 mm cavity width behind the cladding and 5 mm continuous opening (or equivalent slots) at top and bottom. Further ventilation must be provided in vertical runs exceeding 20 mm. For those panel systems requiring NHBC approval, a continuous opening at the top and bottom is required.



Wooden substructure with closed (left) and semi-closed (right) horizontal joint

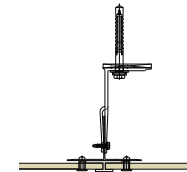
Aluminium substructure with closed horizontal joint

**Vertical joints**

The vertical joints are automatically closed by the backing of the vertical substructure. To ensure the durability of the wood, the vertical slats must be well protected against rain water. This can be done with a UV- and weather-resistant joint sealing strip. With a closed joint, the joint sealing strip does not need to protrude. It can also be done with a strip of Rockpanel.



Wooden substructure, vertical joint solution



Aluminium substructure, vertical joint solution

### Non-ventilated applications

Thanks to its unique characteristics and the vapour-open structure of Rockpanel Rockclad this product can be used in specific situations in non-ventilated structures. In situations where the preconditions can easily be fulfilled, for example such as infill panels and dormers, the total thickness of the construction is suitable for insulation which leads to a higher U-value.

For non-ventilated applications of Rockpanel Rockclad the following preconditions are required:

- interior climate with a maximum vapour pressure of 1330 Pa (normal housing and office buildings i.e. no swimming pools or factories);
- the  $S_a$ -values of the materials on the inside of the structure down to the insulation should add up to at least 10 m, this value can be achieved with a 0.15 mm thick PE-membrane as vapour barrier and drywall;
- the  $S_a$ -values of the materials on the outside of the structure down to the insulation should add up to more than 2.5 m;
- the inside of the structure should be airtight so that no warm air, containing moisture, can penetrate through the structure;
- the attachments of the boards to the structure should be watertight, so that no rainwater or cleaning water can get behind the cladding. This means that horizontal joints between the Rockpanel boards are not allowed. Vertical joints can be applied but should abut at a wooden timber batten covered with a 3 mm x 60 mm soft adhesive EPDM foam gasket;
- only Rockpanel Rockclad without ProtectPlus can be used in this application. The  $S_a$ -value from Rockpanel Rockclad without Protect Plus is 1.8 m.

If you are unsure whether the construction meets these conditions, please contact Rockpanel.

## JOINTS AND BOARD CONNECTIONS

### General

- Rockpanel is dimensionally stable, and therefore resistant to changes in length and width arising from changes in temperature and humidity. Other materials could expand or contract to varying degrees when compared to Rockpanel boards.
- Take into account that boards, installation and building tolerances play an important role in the detailing of joints.
- Apply weather- and UV-resistant joint tape to the seams to protect the substructure against weather influences.
- The joints should be > 5 mm, to ensure proper drainage.
- See paragraph 'ventilated constructions' on page 15 for horizontal and vertical board connections.
- See paragraph 'guidelines Rockpanel Lines<sup>2</sup>' on page 20 for the application of Rockpanel Lines<sup>2</sup>.

### Guidelines seamless installation

Rockpanel board material retains its shape as it is able to withstand dampness and changes in temperature. This allows it to be used seamlessly under certain conditions:

- Only for use around the roof, such as to finish guttering, for fascias and barge boards. If you are considering a seamless facade finish with panels, Lines<sup>2</sup> or shiplap, contact Rockpanel for individual and expert advice;
- Up to a maximum length of 15 metres;
- Only when a timber sub frame is used with vertical slats to prevent the sub frame from warping;
- The sub frame timber is protected by using gaskets for all joints on the sub frame;
- Expansion joints are used throughout the Rockpanel construction. If there are expansion joints in the structure, the facade panels must also have expansion joints.

## Guidelines Rockpanel Lines<sup>2</sup>

In horizontal use of Rockpanel Lines<sup>2</sup>, horizontal seams are automatically covered by the overlaid board and no additional finishing of the seam is necessary. On vertical framework, weather resistant joint tape should be applied to protect the framework. Rockpanel recommends that a joint width of at least 3 mm should be maintained between the panels.

When using the clip to fix Lines<sup>2</sup> S 8 and Lines<sup>2</sup> XL 8, protection of the timber battens with weather-resistant joint tape is not recommended. In this case, the timber battens should be in accordance with BS 5268-2: 2002 and preservative treated in accordance with BS 5268-5: 1989 and BS 8417: 2003.

With Lines<sup>2</sup> 8 mm installed in a demountable fashion, each board can be secured horizontally and vertically. Even when the panels are secured they still can be replaced individually. If horizontal secured fixing is used, automatically a small vertical joint of 3 mm will be applied between the panels.

## Corner and edge solutions

Finishing the edges is only necessary to meet any design or aesthetic requirements. Rockpanel offers a range of solutions for an attractive finish at corners and edges.

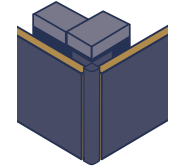
### *Assembly corner joint with natural grey-brown edges*

Without finishing, the basic material changes colour to natural grey-brown under the effect of UV.

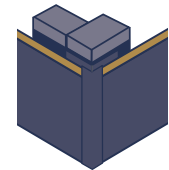


### *Corner profiles in a RAL colour*

A solution with a corner profile in a compatible RAL colour ensures a perfect finish.



See page 48 for a complete overview of the profiles.



### *Mitre joint*

For the highly skilled installer, a mitre joint can be made with the material, thereby creating a precise and uniform finish.



**Important:** the minimum panel thickness for this solution is 8 mm.

### *Edge paint*

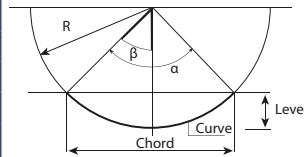
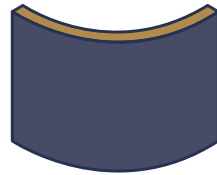
Finishing the edges with matching colour paint is another option.



### Bending and curving

Rockpanel board material can easily be curved on the building site if required.

Rockpanel Colours, Metallics, Woods and Chameleon		
Panel thickness (mm)	6	8
Panel dimensions (Curve, mm)	3050	3050
Radius R minimal (mm)	1900	2500
Angle $\alpha$	91.97°	69.9°
Chord (mm)	2733	2864
Level (mm)	580	451
Common ground c.t.c. (mm)	300	400
Fixing distance c.t.c. (mm)*	270	300



\* For urban and rural environments. Height of the building  $\leq$  10 meter.

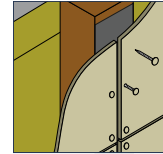
### FIXING

Rockpanel offers a broad range of fixings; nails, screws as well as a fire safe adhesive system developed in collaboration with Bostik. All are suitable and thoroughly tested to be applied in combination with our board material.

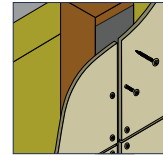
In case you want to use other fixings different than Rockpanel original fixings please ensure with the supplier the suitability of their fixings to meet our technical requirements. Always check that accessories are suitable for the design and its associated performance requirements. In particular it is important that any nails, screws or rivets comply with the requirements and design loads of the BBA certificate 4168. It is further recommended to use only coloured fixings with a durable finish. Working with accessories from other manufacturers should be carried out according to their recommendations, their supervision and their warranty conditions.

### Mechanical fixing on wood

- Rockpanel ring shank nails (stainless steel material number 1.4401 or 1.4578) 2,7/2,9 x 32 (flat-top).
- Rockpanel ring shank nails (stainless steel material number 1.4401 or 1.4578) 2.1/2.3 x 27 (flat-top) for fixing Rockpanel Lines<sup>2</sup> 10 mm.
- Stainless steel flat-top screws of 3.5\*30 mm with a head diameter of  $\varnothing$  6.6 mm for fixing Rockpanel Lines<sup>2</sup> 10 mm. The tongue should be predrilled with a steel drill  $\varnothing$  3.5 mm and the hole for the flat-top screw head should be sunk with a countersink bore. The top of the screw head should be level with the surface of the tongue. Tension in the mounting of the tongue can be avoided by tightening to an appropriate level and by ensuring they are driven in to the batten in a true fashion.
- Rockpanel Torx screws (stainless steel material number 1.4401 or 1.4578) 4,5 x 35 mm. Nail heads in the same RAL colour combine perfectly with the RAL colour of the board material.



Ring shank nails

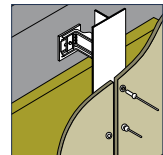


Torx screws

### Mechanical fixing on aluminium

For the mounting of Rockpanel on aluminium load-bearing sections,  $\varnothing$  14 mm AP14-5 x 18-S flat-topped aluminium pop rivets can be used:

- material EN-AW-5019 in conformity with EN 755-2. Nail material number 1.4541 in conformity with EN 10088. Failure tensile strength  $Z_b = 3920N$



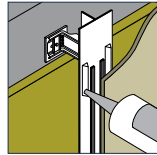
Mechanical fixing on aluminium

When installing Rockpanel on aluminium load-bearing sections, fixed points and slotted holes should be applied. By applications of fixed points and moving points the fixed points should be pre-drilled with  $\varnothing$  5.2 mm and the moving points with  $\varnothing$  9 mm. The sliding attachment must be done with a 'rivet spacer' so that the attachment can move easily.

**Adhesive installation**

In collaboration with Bostik, Rockpanel has developed a fire safe European-certified adhesive system compatible with the European standards of Rockpanel. If you prefer to use another adhesive system, always verify that the chosen system meets the requirements for application with Rockpanel. If using another adhesive system, the adhesive supplier becomes responsible for technical approvals and guarantee.

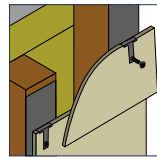
**Note:** The quality of the adhesive bonding is partly determined by the weather conditions during application. For more information refer to the adhesive supplier.



Adhesive installation

**Easy Fix; for a ship lap construction**

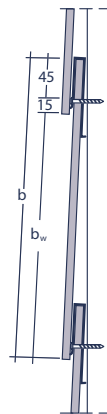
Rockpanel has developed a secret fixing system for cladding boards using a mounting spacer called Rockpanel Easy Fix. The Easy Fix clips onto the boards to allow a simple and stress free assembly, which presets the position of the fixing screws. For more information about assembly see processing and the product data sheet on [www.rockpanel.co.uk](http://www.rockpanel.co.uk).



Easy Fix



Rockpanel board sizes	
Gross width (b)	Effective width (b <sub>v</sub> )
285 - 340 mm	b - 60 mm



**Fixing Rockpanel Lines<sup>2</sup>**

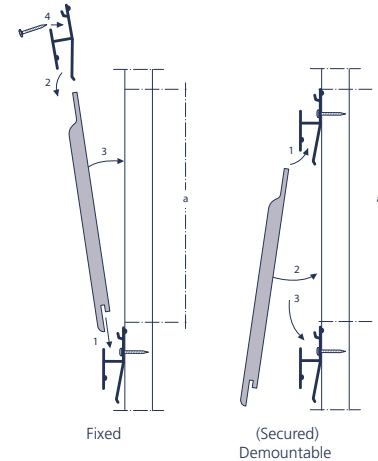
Rockpanel Lines<sup>2</sup> are tongue-and-groove cladding boards suitable for horizontal application in ventilated constructions. The panels are available in a small (S) and an extra wide (XL) version. The thicknesses available are 8 and 10 mm each of which has a different fixing method.

**Rockpanel Lines<sup>2</sup> 8 tongue-and-groove panels (with clip)**

With the innovative clip developed by Rockpanel, you can choose between a fixed and demountable installation of Lines<sup>2</sup> S 8 and Lines<sup>2</sup> XL 8 tongue-and-groove panels. For demountable installation, the tongue-and-groove board is simply inserted into the clip so that each panel can be removed separately.

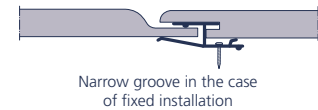


Mounting clip



Lines<sup>2</sup> S 8

Lines<sup>2</sup> XL 8



Narrow groove in the case of fixed installation



Wide groove in the case of demountable installation

Clip spacing (a)		
Type	Fixed	(Secured) Demountable
Rockpanel Lines <sup>2</sup> S 8	151 mm	156 mm
Rockpanel Lines <sup>2</sup> XL 8	282 mm	287 mm

Mounting of Lines<sup>2</sup> S 8 and Lines<sup>2</sup> XL 8 is either with a fixed or demountable attachment, depending on the clip spacing used. Variations of this can be achieved with the working sheet width of 151-156 mm for Lines<sup>2</sup> S 8 and of 282-287 mm for Lines<sup>2</sup> XL 8.

### Rockpanel Lines<sup>2</sup> 10 tongue-and-groove panels

The Lines<sup>2</sup> 10 tongue-and-groove panels can be fixed invisibly by means of Rockpanel ring shank nails or flat-top screws, which results in a traditional groove effect.

Type	Panel width	Working panel width
Rockpanel Lines <sup>2</sup> S 10	164 mm	146 mm
Rockpanel Lines <sup>2</sup> XL 10	295 mm	277 mm



Lines<sup>2</sup> S 10

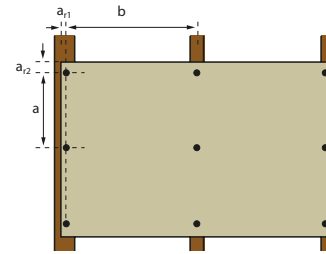
Lines<sup>2</sup> XL 10

## DISTANCES BETWEEN FASTENING POINTS

In the chapter “Distances between fastening points” the maximum approved fixing distances for flat boards of Durable quality fixed to a wooden or aluminium substructure are defined. However the fixing distances can differ per project as the actual fixing distance has to be calculated in accordance with the actual situation (i.e. building height, wind speed etc.).

### Distances between fastening points in accordance with BBA/ETA approval

The table below shows the maximum fixing distances at a vertical timber substructure or aluminium substructure in accordance with BBA approval Agrément Certificate 4168 or ETA -7/0141.



Edge distance  $a_{11} = 15$  mm  
Edge distance  $a_{12} = 50$  mm

Maximum fixing distances according approval				
Fastening system **	Rockpanel Durable 6 mm*		Rockpanel Durable 8 mm*	
	Maximum Span (b)	Maximum distance between Fasteners (a)	Maximum Span (b)	Maximum distance between Fasteners (a)
Screw	400 mm	300 mm	600 mm	600 mm
Ring shank nail	480 mm	300 mm	600 mm	400 mm
Rivet	-	-	600 mm	600 mm
Bounding system	The maximum span between the bounding ropes at an 8 mm board will be 600 mm (a)*.			

\* Maximum distances are not applicable for Rockpanel Natural.

\*\* Specified fastening system according technical approval.

### Determining the fixing distances

When determining the fixing distances the next variables should be taken into account:

- Wind load
  - Determine the fundamental local basic wind velocity;
  - Determine the maximum height of the building;
  - Determine the site altitude;
  - Determine the distance from the coast;
  - Determine the distance to the edge of the city.
- Building area: zone A (corner area) or zone B (area between corners). For details see the figure below.

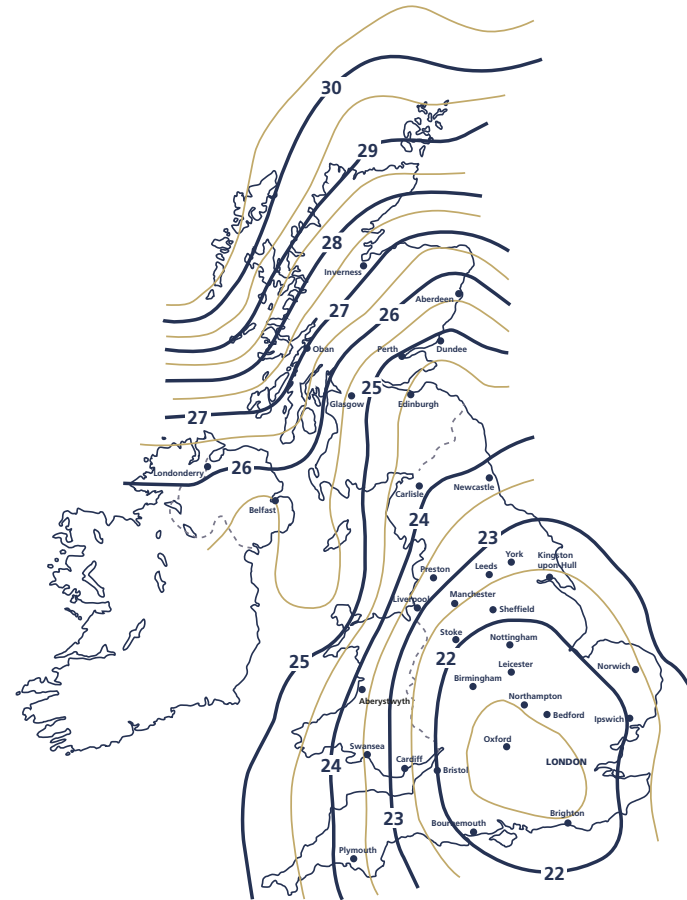


A = Corner area  
 B = Area between the corners  
 T = Total building height

- Type of board, thickness and fastening system
- Static load absorption, for example 1-field- or 2-field span
- Legal local requirements

### Calculation examples: fixing distances and maximum permissible building heights

The calculation examples on page 30-33 are based on the properties of Rockpanel Durable. The tables show the distances between fastening points (mm) in relation to the basic wind velocity and the location in the country. The calculation examples on page 34-35 show the maximum permissible building heights (m) for which Rockpanel Lines<sup>2</sup> can be used in relation to the basic wind velocity.



- This map is an indication of the fundamental basic wind velocity according to BE-EN 1991-1-4. If you are unsure which zone the building is located please contact Rockpanel.

## Calculation examples: Fixing distances

Fixing distances (mm) for Rockpanel Rockclad / Woods / Metallics / Chameleon in Durable grade						
- Location in country - Distance from coast > 10 km - Site altitude ≤ 50 m - Building height ≤ 10 m - Strength class timber: c24 according EN338 - Aluminium according approval - $a_{r1} = 15$ mm - $a_{r2} = 50$ mm						
8 mm panels						
Wind speed		22 m/s	23 m/s	24 m/s	25 m/s	26 m/s
	b	$a_m(a_r)$	$a_m(a_r)$	$a_m(a_r)$	$a_m(a_r)$	$a_m(a_r)$
Torx-screw	600	330 (500)	-	-	-	-
	500	400 (600)	365 (550)	335 (505)	310 (465)	285 (430)
	400	500 (600)	455 (580)	420 (565)	385 (550)	355 (535)
Rivet onto Aluminium	600	405 (600)	-	-	-	-
	500	490 (600)	445 (580)	410 (565)	380 (550)	350 (535)
	400	600 (600)	560 (580)	515 (565)	475 (550)	435 (535)
6 mm panels						
Torx-screw	400	300 (300)	285 (300)	260 (300)	240 (300)	255 (300)
	300	300 (300)	300 (300)	300 (300)	300 (300)	220 (300)

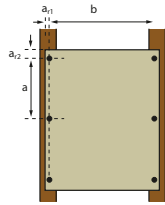
- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes and higher wind speeds, Rockpanel should be consulted.
- For buildings with a height > 10 m, also for buildings with a non-conventional shape Rockpanel should be consulted.
- The specification of the Rockpanel screw and rivet should be in accordance with the appropriate Rockpanel technical approval.

Fixing distances (mm) for Rockpanel Rockclad / Woods / Metallics / Chameleon in Durable grade						
- Location in country - Distance from coast > 10 km - Site altitude ≤ 50 m - Building height ≤ 10 m - Strength class timber: c24 according EN338 - Aluminium according approval - $a_{r1} = 15$ mm - $a_{r2} = 50$ mm						
8 mm panels						
Wind speed		22 m/s	23 m/s	24 m/s	25 m/s	26 m/s
	b	a	a	a	a	a
Torx-screw	600	330	-	-	-	-
	500	400	365	335	310	285
	400	440	425	415	385	355
Rivet onto Aluminium	600	405	-	-	-	-
	500	440	425	410	380	350
	400	440	425	415	400	395
6 mm panels						
Torx-screw	400	300	285	260	240	255
	300	300	300	300	300	220

- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes and higher wind speeds, Rockpanel should be consulted.
- For buildings with a height > 10 m, also for buildings with a non-conventional shape Rockpanel should be consulted.
- The specification of the Rockpanel screw and rivet should be in accordance with the appropriate Rockpanel technical approval.

**Fixing distances (mm) for Rockpanel Rockclad / Woods / Metallics / Chameleon in Durable grade**

- Location in country
- Distance from coast > 10 km
- Site altitude ≤ 50 m
- Building height ≤ 10 m
- Strength class timber: c24 according EN338
- Aluminium according approval
- $a_{11} = 15$  mm
- $a_{12} = 50$  mm



**8 mm panels**

Wind speed		22 m/s	23 m/s	24 m/s	25 m/s	26 m/s
	b	a	a	a	a	a
<b>Torx-screw</b>	600	-	-	-	-	-
	500	-	-	-	-	-
	400	565	515	475	435	405
<b>Rivet onto Aluminium</b>	600	-	-	-	-	-
	500	-	-	-	-	-
	400	600	580	565	550	415

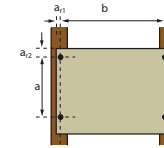
**6 mm panels**

<b>Torx-screw</b>	400	-	-	-	-	-
	300	300	300	300	300	300

- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes and higher wind speeds, Rockpanel should be consulted.
- For buildings with a height > 10 m, also for buildings with a non-conventional shape Rockpanel should be consulted.
- The specification of the Rockpanel screw and rivet should be in accordance with the appropriate Rockpanel technical approval.

**Fixing distances (mm) for Rockpanel Rockclad / Woods / Metallics / Chameleon in Durable grade**

- Location in country
- Distance from coast > 10 km
- Site altitude ≤ 50 m
- Building height ≤ 10 m
- Strength class timber: c24 according EN338
- Aluminium according approval
- $a_{11} = 15$  mm
- $a_{12} = 50$  mm



**8 mm panels**

Wind speed		22 m/s	23 m/s	24 m/s	25 m/s	26 m/s
	b	a	a	a	a	a
<b>Torx-screw</b>	600	-	-	-	-	-
	500	-	-	-	-	-
	400	440	425	415	400	395
<b>Rivet onto Aluminium</b>	600	-	-	-	-	-
	500	-	-	-	-	-
	400	440	425	415	400	395

**6 mm panels**

<b>Torx-screw</b>	400	-	-	-	-	-
	300	300	300	300	300	295

- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes and higher wind speeds, Rockpanel should be consulted.
- For buildings with a height > 10 m, also for buildings with a non-conventional shape Rockpanel should be consulted.
- The specification of the Rockpanel screw and rivet should be in accordance with the appropriate Rockpanel technical approval.

## Fixing distances Rockpanel Lines<sup>2</sup>

<ul style="list-style-type: none"> <li>- Location in country</li> <li>- Distance from coast &gt; 10 km</li> <li>- Site altitude ≤ 50 m</li> <li>- Strength class timber: c24 according EN338</li> <li>- Cavity closers at the corners</li> <li>- a<sub>11</sub> = 15 mm</li> <li>- a<sub>12</sub> = 15 mm</li> </ul>	
--	--

Maximum permissible building height (m) Lines<sup>2</sup> 8 mm with a 2- field span, fixed using a single Rockpanel clip at the intermediate battens. Clips and screws for fixing are supplied by Rockpanel.

Wind speed	Span c.t.c. (mm)	Lines <sup>2</sup> 8 XL		Lines <sup>2</sup> 8 S	
		Zone B: Middle area	Zone A: Corner area	Zone B: Middle area	Zone A: Corner area
22 m/s	500	30*	-	30*	30*
	400	30*	7	30*	30*
23 m/s	500	20*	-	30*	20
	400	30*	5	30*	30*
24 m/s	500	15	-	30*	20
	400	30*	-	30*	30*
25 m/s	500	15	-	30*	15
	400	30	-	30*	30
26 m/s	500	10	-	30*	10
	400	20	-	30*	20

Maximum permissible building height (m) Lines<sup>2</sup> 8 mm with a 2- field span, fixed using a double Rockpanel clip at the intermediate battens. Clips and screws for fixing are supplied by Rockpanel.

Wind speed	Span c.t.c. (mm)	Lines <sup>2</sup> 8 XL		Lines <sup>2</sup> 8 S	
		Zone B: Middle area	Zone A: Corner area	Zone B: Middle area	Zone A: Corner area
22 m/s	500	30*	30*	30*	30*
	400	30*	30*	30*	30*
23 m/s	500	30*	30*	30*	30*
	400	30*	30*	30*	30*
24 m/s	500	30*	20	30*	30*
	400	30*	30*	30*	30*
25 m/s	500	30*	20	30*	30*
	400	30*	30	30*	30*
26 m/s	500	30*	15	30*	30*
	400	30*	30	30*	30*

- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes or higher wind speeds, Rockpanel should be consulted.
- For buildings with a non-conventional shape Rockpanel should be consulted
- Specification of the fasteners should be in accordance with the appropriate Rockpanel technical guidelines.

\* Higher buildings not calculated. Contact Rockpanel for advice.

<ul style="list-style-type: none"> <li>- Location in country</li> <li>- Distance from coast &gt; 10 km</li> <li>- Site altitude ≤ 50 m</li> <li>- Strength class timber: c24 according EN338</li> <li>- Cavity closers at the corners</li> <li>- a<sub>11</sub> = 15 mm</li> <li>- a<sub>12</sub> = 15 mm</li> </ul>	
--	--

Maximum permissible building height (m) Lines<sup>2</sup> 10 mm with a 2- field span, fixed using a single Rockpanel ring shank nail 2,1/2,3 x 27 mm at the intermediate battens.

Wind speed	Span c.t.c. (mm)	Lines <sup>2</sup> 10 XL		Lines <sup>2</sup> 10 S	
		Zone B: Middle area	Zone A: Corner area	Zone B: Middle area	Zone A: Corner area
22 m/s	600	5	-	30*	15
	500	7	5	30*	30
23 m/s	600	-	-	20	10
	500	7	-	30*	20
24 m/s	600	-	-	15	7
	500	5	-	30*	15
25 m/s	600	-	-	15	7
	500	5	-	20	10
26 m/s	600	-	-	10	5
	500	-	-	20	10

Maximum permissible building height (m) Lines<sup>2</sup> 10 mm with a 2- field span, fixed using a double Rockpanel ring shank nail 2,1/2,3 x 27 mm at the intermediate battens.

Wind speed	Span c.t.c. (mm)	Lines <sup>2</sup> 10 XL		Lines <sup>2</sup> 10 S	
		Zone B: Middle area	Zone A: Corner area	Zone B: Middle area	Zone A: Corner area
22 m/s	600	30*	15	30*	30*
	500	30*	30	30*	30*
23 m/s	600	30	15	30*	30*
	500	30*	20	30*	30*
24 m/s	600	20	10	30*	30*
	500	30*	15	30*	30*
25 m/s	600	15	7	30*	30*
	500	30	15	30*	30*
26 m/s	600	15	7	30*	30*
	500	20	10	30*	30*

- If the table shows no fixing distance (-), contact Rockpanel for the possibilities and a specific advice.
- For applications < 10 km from the coast, also at higher site altitudes or higher wind speeds, Rockpanel should be consulted.
- For buildings with a non-conventional shape Rockpanel should be consulted
- Specification of the fasteners should be in accordance with the appropriate Rockpanel technical guidelines.

\* Higher buildings not calculated. Contact Rockpanel for advice.

### Fixing of other Rockpanel products

For the fixing guidelines applicable to other Rockpanel products, please consult the technical product datasheets at [www.rockpanel.co.uk](http://www.rockpanel.co.uk).

### Adhesive installation

Adhesive installation of Rockpanel board material should be carried out according to the instructions of the adhesive system manufacturer and under the manufacturer's supervision and warranty conditions. In collaboration with Rockpanel, Bostik has developed the Rockpanel Tack-S system (ETA 07/0141). For more information see the product data sheet on [www.rockpanel.co.uk](http://www.rockpanel.co.uk) or consult the ETA 07/0141.

### Horizontal applications

If Rockpanel is used horizontally, for example in a ceiling application, the specific weight of Rockpanel must be taken into account in the calculation of the fixing distances. As a rule of thumb, the fixing distances can be multiplied by 0.75.

## MAINTENANCE

### Cleaning

The advice of Rockpanel is to clean the board material once per year with water. If desired, the board material can be cleaned with, for example, a car shampoo or an all-purpose cleaner, diluted as indicated by the manufacturer. This solution prevents contamination by dirt so that the colour is preserved for a long time.

### Extra protection: ProtectPlus

Rockpanel Rockclad can be optionally finished with a ProtectPlus layer. Rockpanel Woods, Chameleon and Metallics (with the exception of Aluminium White and Aluminium Grey) have a standard ProtectPlus finish. Due to the tightly closed surface of the ProtectPlus layer, it is almost impossible for dirt to attach itself. The strength of the ProtectPlus layer means that the surface of the boards can remain dirt free for years to come. The layer does not lose its effectiveness over time, and is therefore one of the best self-cleaning cladding surfaces on the market. ProtectPlus has an integrated UV blocker and ensures excellent colour fastness. Graffiti is easy to remove with Rockpanel Graffiti Cleaner.

### Repainting

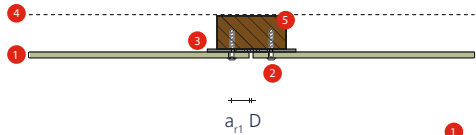
Rockpanel Rockclad and Rockpanel Lines<sup>2</sup> are finished with a water-based coating system which makes it easy to repaint if desired for aesthetic reasons. For advice on repainting, Rockpanel recommends contacting the paint supplier direct. Note that it is not possible to repaint Rockpanel board material that has a ProtectPlus finish (this applies to Rockpanel Rockclad (with ProtectPlus), Rockpanel Woods, Rockpanel Metallics and Rockpanel Chameleon).

**Attention:** If Rockpanel board material is repainted, properties related to its coating may change. In this instance, you should fully consider colour, surface structure and the vapour-permeable properties of Rockpanel. If you wish to repaint Rockpanel Rockclad in an unventilated application, it is important that you consider and evaluate with the paint supplier the moisture-regulating properties of the new paint to be applied.

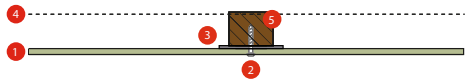
# DETAILING

## FACADE

1-200 | Mechanically fixed on timber support,

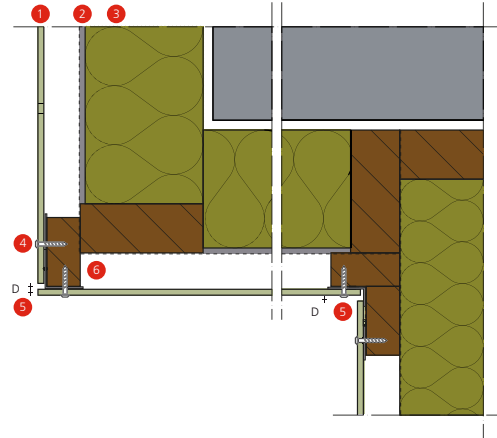


- 1 Rockpanel 6 or 8 mm
- 2 Rockpanel ring shank nail or Rockpanel screw
- 3 EPDM gasket
- 4 Breathable membrane
- 5 Battens 28 x 70 mm
- D Assembly joint
- $a_{11}$  15 mm edge distance



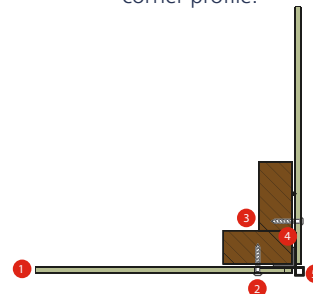
- 1 Rockpanel 6 or 8 mm
- 2 Rockpanel ring shank nail or Rockpanel screw
- 3 EPDM gasket
- 4 Breathable membrane
- 5 Battens 28 x 45 mm

1-201 | Mechanically fixed to timber supports, internal and external corner



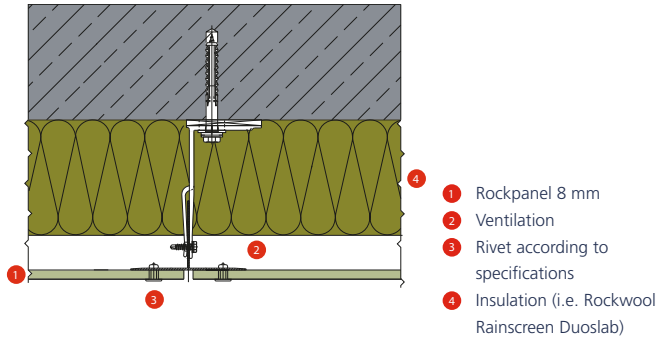
- 1 Rockpanel 6 or 8 mm
- 2 Breathable membrane
- 3 Insulation (i.e. Rockwool Rainscreen Duoslab)
- 4 Rockpanel ring shank nail or Rockpanel screw
- 5 EPDM gasket
- 6 Battens 28 x 70 mm
- D Assembly joint

1-208 | Mechanically fixed to timber supports, with external corner profile.



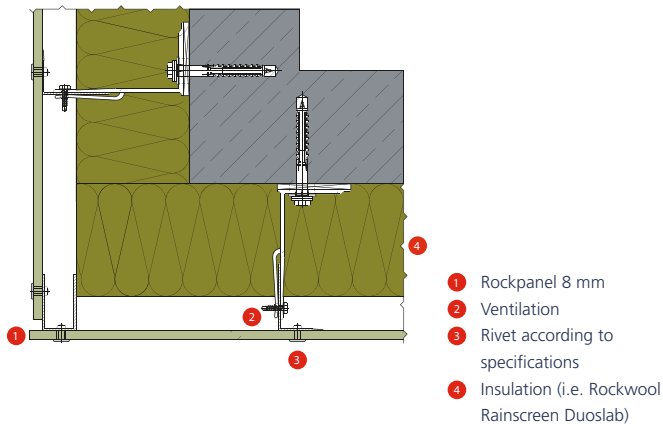
- 1 Rockpanel 6 or 8 mm
- 2 Rockpanel ring shank nail or Rockpanel screw
- 3 Battens 28 x 70 mm
- 4 EPDM gasket
- 5 Rockpanel corner profile type D

2-200B | Mechanically fixed to aluminium supports, abutment vertical joint



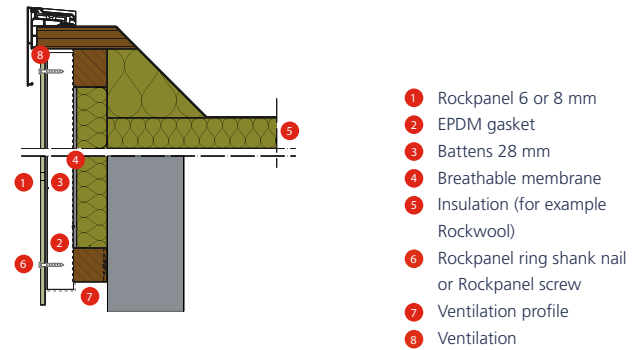
Important: For aluminium constructions in an open facade Rockpanel recommends a cavity depth of 60 mm.

2-201B | Mechanically fixed to aluminium supports, external corner

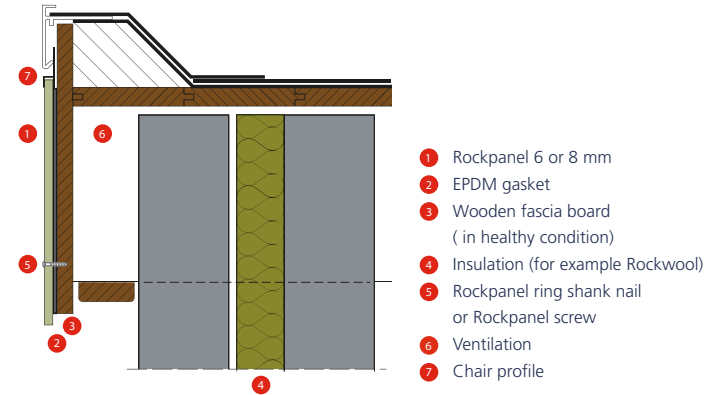


## ROOFLINE

1-501 | Mechanically fixed to timber supports, fascia board new build

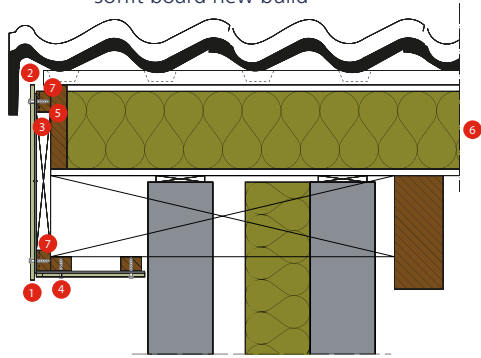


1-504B | Mechanically fixed to timber supports, fascia board renovation



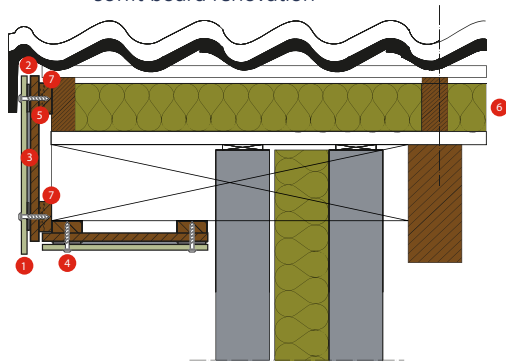
Attention: An EPDM gasket should be provided to ensure watertight connections at the point where the Rockpanel sheet is fixed over the existing sub frame.

1-509 | Mechanically fixed to timber supports, soffit board new build



- 1 Rockpanel 6 or 8 mm
- 2 Ventilation
- 3 EPDM gasket
- 4 Rockpanel ring shank nail or Rockpanel screw
- 5 Battens 28 mm
- 6 Insulation (for example Rockwool)
- 7 Ventilation gap in horizontal battens

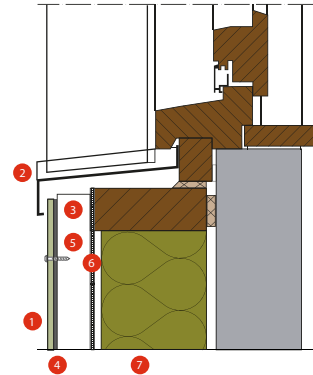
1-511 | Mechanically fixed to timber supports, soffit board renovation



- 1 Rockpanel 6 or 8 mm
- 2 Ventilation
- 3 EPDM gasket
- 4 Rockpanel ring shank nail or Rockpanel screw
- 5 Existing multi-ply cladding (in healthy condition)
- 6 Insulation (for example Rockwool)
- 7 Ventilation gap in horizontal battens

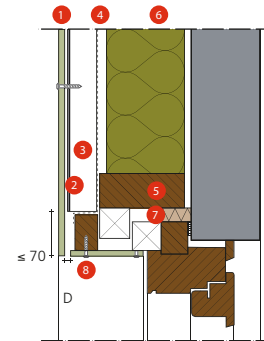
## DETAILING

1-350 | Mechanically fixed to timber supports, junction at window-sill



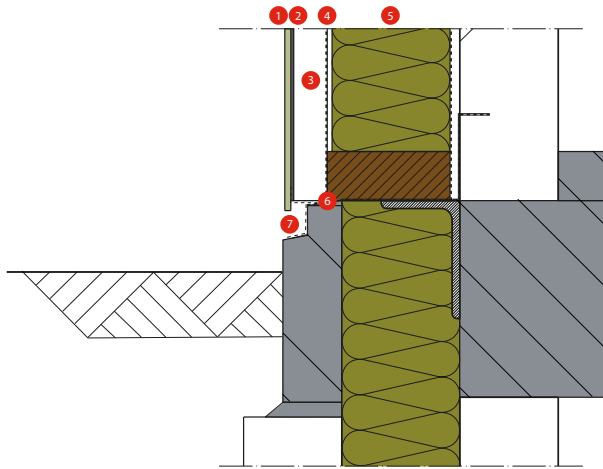
- 1 Rockpanel 8 mm
- 2 Aluminium window-sill with bulkhead
- 3 Ventilation
- 4 EPDM gasket
- 5 Battens
- 6 Breathable membrane
- 7 Insulation (for example Rockwool)

1-351 | Mechanically fixed to timber supports, junction at window head



- 1 Rockpanel 8 mm
- 2 EPDM gasket
- 3 Battens
- 4 Breathable membrane
- 5 Framework
- 6 Insulation (for example Rockwool)
- 7 PU foam
- 8 Rockpanel ring shank nail or Rockpanel screw
- D Assembly joint

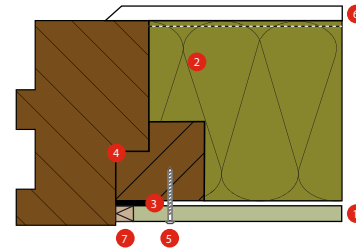
1-552 | Mechanically fixed to timber supports, connection at ground level



- 1 Rockpanel 8 mm
- 2 EPDM gasket
- 3 Battens / ventilation
- 4 Breathable membrane
- 5 Insulation (for example Rockwool)
- 6 Lead flashing / cavity tray
- 7 Access for ventilation

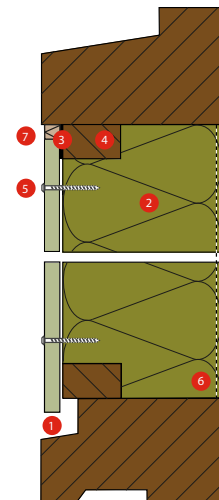
## NON-VENTILATED APPLICATIONS

1-400 | Mechanically fixed to timber support, non-ventilated infilling (horizontal)



- 1 Rockpanel Rockclad (without ProtectPlus) 6 or 8 mm
  - 2 Insulation (for example Rockwool)
  - 3 Non-sticking layer, for example PE-foil
  - 4 Battens
  - 5 Rockpanel screw
  - 6 Vapour barrier  $S_d > 10$  m
  - 7 Sustainable elastic sealant
- See also preconditions on page 18

1-450 | Mechanically fixed to timber support, non-ventilated infilling (vertical)



- 1 Rockpanel Rockclad (without ProtectPlus) 6 or 8 mm
  - 2 Insulation (for example Rockwool)
  - 3 Non-sticking layer, for example PE-foil
  - 4 Battens
  - 5 Rockpanel screw
  - 6 Vapour barrier  $S_d > 10$  m
  - 7 Sustainable elastic sealant
- See also preconditions on page 18

# STANDARD RANGE AND AVAILABILITY

## BOARDS

	Dimensions*	Availability
Rockpanel Rockclad	Panel thickness: 6 mm and 8 mm Panel width: 1200 mm and 1250 mm Panel length: 2500 mm and 3050 mm	20 standard colours in stock. Orders > 100m <sup>2</sup> 2500 mm maximum 6 weeks.
Rockpanel Ply Light grey primer	Panel thickness: 6 mm, 8 mm and 10 mm Panel width: 1200 mm and 1250 mm Panel length: 2500 mm and 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.
<b>NEW</b> Rockpanel Lines <sup>2</sup>	Panel thickness: 8 mm and 10 mm Panel width**: 164 mm and 295 mm Panel length: 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.
Rockpanel Woods	Panel thickness: 8 mm Panel width: 1200 mm and 1250 mm Panel length: 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.
Rockpanel Natural	Panel thickness: 8 mm and 10 mm Panel width: 1200 mm and 1250 mm Panel length: 2500 mm and 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.
Rockpanel Chameleon	Panel thickness: 8 mm Panel width: 1200 mm and 1250 mm Panel length: 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.
Rockpanel Metallics	Panel thickness: 8 mm Panel width: 1200 mm and 1250 mm Panel length: 3050 mm	A stock item. Orders > 100 m <sup>2</sup> maximum 6 weeks.

\* Panel width 1250 mm is available from 100 m<sup>2</sup> with a maximum delivery time of 6 weeks.

\*\* Working sheet width Lines<sup>2</sup> 10: respectively 146 mm and 277 mm.  
Working sheet width Lines<sup>2</sup> 8: respectively 151-156 mm and 282-287 mm.

Note: All Xtreme boards are subject to a maximum lead time of 6 weeks.

### Colour customisation

Besides the standard range of colours Rockpanel is also able to produce any RAL or NCS colour. Contact Rockpanel for the possibilities and delivery times.

### Width customisation

Rockpanel offers the possibility to supply custom made boards. Length can be adjusted to your project requirements. As a result of the innovative production process of Rockpanel, the board can now be delivered in all lengths between 2500 and 3050 mm and between 1700 and 2000 mm.

Minimum order: 300 m<sup>2</sup> per format/colour.












Delivery time: maximum 6 weeks.

### Extra protection: ProtectPlus

Rockpanel Rockclad can be treated with a ProtectPlus finish as an option. Minimum order is 100 m<sup>2</sup>. Rockpanel Woods, Chameleon and Metallics come with the ProtectPlus finish as standard. With the exception of Rockpanel Metallics Aluminium White and Aluminium Grey.

## ACCESSORIES

### Profiles\*

	Standard length is 3055 mm	Colour	Panel thickness	Availability
	Profile A	Blanc adonised* & Standard 20 colours	6, 8, 10 mm 6, 8, 10 mm	1 week 4 weeks
	Profile B	Blanc adonised* & Ral 9005	One size fits all	1 week 1 week
	Profile C	Blanc adonised* & Standard 20 colours	6, 8, 10 mm 6, 8, 10 mm	1 week 4 weeks
	Profile D	Blanc adonised* & Standard 20 colours	6, 8**, 10 mm 6, 8**, 10 mm	1 week 4 weeks
	Profile E	Blanc adonised* & Standard 20 colours	6, 8, 10 mm 6, 8, 10 mm	1 week 4 weeks
	Profile F	Blanc adonised* & Standard 20 colours	6, 8, 10 mm 6, 8, 10 mm	1 week 4 weeks
	Profile G (Easy Fix assembly)	Blanc adonised* & Standard 20 colours	8 mm 8 mm	1 week 4 weeks
	Profile H	Blanc adonised* & Standard 20 colours	6, 8, 10 mm 6, 8, 10 mm	1 week 4 weeks
	Profile I	Blanc adonised*	8 mm	1 week
	Profile J	Blanc adonised*	One size fits all	1 week
	Profile K Lines2 ***	Blanc adonised*	8, 10 mm	1 week

\* Unpainted aluminium.

\*\* When using Lines<sup>2</sup> 8 with a Rockpanel clip, a 12 mm profile is required. The delivery time of this profile is 1 week for the blanc adonised profile and 4 weeks for a coloured profile.

\*\*\* For easy connection at ground level, a Rockpanel starting profile (type K) can be used for placement of the lowest section of Rockpanel Lines<sup>2</sup>.

### Fixing method

	Colour	Indicative usage per m <sup>2</sup> *	Availability
Ring shank nails 27 mm	(stainless steel)	10 pieces	A stock item
Ring shank nails 32 mm	(stainless steel) 20 standard colours	12 pieces	A stock item A stock item
Screws 35 mm	20 standard colours	8 pieces	A stock item

### Adhesive method\*\*

	Quantity	Indicative usage per 100 m <sup>2</sup> *	Availability
Rockpanel Tack-S (ETA certified)	290 ml	50 cartridges	A stock item
Primer MSP Transparent (backside board)	500 ml	6 cans	A stock item
Prep M (Aluminium frames)	500 ml	2 cans	A stock item
Foam tape (double sided)	25 lm	12 rolls	A stock item
Liquid 1	1 litre	1 can	A stock item

### Other accessories

	Quantity	Availability
EPDM Foam tape (adhesive) 36 mm	50 rm	A stock item
EPDM Foam tape (adhesive) 60 mm	50 rm	A stock item
EPDM Foam tape (adhesive) 100 mm	25 rm	A stock item
Rockpanel graffiti cleaner	780 ml	A stock item
Rockpanel edge paint	750 ml	A stock item

\* With 32 mm nails and 35 mm screws assuming a panel thickness of 8 mm, with 27 mm nails assuming Lines<sup>2</sup> 10 mm. Actual consumption will depend on panel size, connections and height of the building. The example assumes a maximum panel size and span.

\*\* Adhesive installation of Rockpanel board material should be carried out according to the instructions of the supplier of the adhesive system and under his supervision and warranty conditions. If you choose to work with an adhesive system that is thoroughly tested with Rockpanel board material, you can work with the Tack-S adhesive system (ETA certified). Contact Rockpanel for more information and your nearest supplier.

## PRODUCT PROPERTIES

### Standard board material (Durable)

Property	Value	Unit	Standard
<b>Mechanical</b>			
Modules of elasticity	4015 (Durable)	N/mm <sup>2</sup>	EN 310
Characteristic bending strength	≥ 27 (Durable)	N/mm <sup>2</sup>	EN 310 / EN 1058 (f <sub>05</sub> )
<b>Optical</b>			
Colour authenticity (3.000 hours; Xenon test)	Rockclad / Lines2: 4 Rockclad (PP) / Metallics / Woods / Chameleon: 4/5 Natural *	Greyscale	EN 20105-A02
<b>Fire</b>			
Fire classification	Euroclass B-s2-d0**		EN 13501-1
<b>Physical</b>			
Nominal mass of surface (Durable)	6 mm: 6,3 8 mm: 8,4	Kg/m <sup>2</sup>	
Vapour permeable Sd – At 23 °C and 85% RH	-Rockpanel Rockclad: 1,8 -Rockpanel with ProtectPlus finish: 3,5	m	EN-ISO 12572:2001
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	%	
<b>Dimension stability</b>			
Dimension stability arising from changes in temperature	11 x 10 <sup>-3</sup>	mm/(m°K)	EN 438-2
Change of length due to moisture between conditions of 23°C/50% RH and 23°C/95% RH	0.302	mm/m (after 4 days)	

For properties for the Xtreme grade and Rockpanel Ply see [www.rockpanel.co.uk](http://www.rockpanel.co.uk)

\* The appearance of this board material changes under the impact of climate. Sunlight produces a natural change and discolouring of the boards, comparable to other natural materials such as wood, concrete, steel, etc. Each microclimate has a unique effect on Rockpanel Natural.

\*\* Depending on the bearing constructions in some case a sub classification of s1 can be achieved by use of Rockpanel Rockclad.

### Technical approval

Rockpanel board material is ETA-certified and bears the EC-quality label. The certification means that the product satisfies the rigorous strict European assessment guidelines.

### ETA

- ETA-07/0141 “Rockpanel Durable Colour 8 mm and Durable Anti-Graffiti 8 mm”.
- ETA-08/0343 “Rockpanel Durable 6 mm finish Colours”.

### United Kingdom

Rockpanel products comply with British Standards and are BBA approved. Certificate 4168; Rockpanel Rockclad Durable and Rockpanel Durable anti-graffiti panels.

### Sample requests

By using the contact form on [www.rockpanel.co.uk/contact](http://www.rockpanel.co.uk/contact) you can easily request a sample.

### Rockpanel; It is possible!

If you would like to receive 3 times a year an e-mail with advice on how to use Rockpanel, that's possible too! Register your e-mail address at [www.rockpanel.co.uk/itispossible](http://www.rockpanel.co.uk/itispossible).

### Rockpanel product range

The small colour chart gives a complete overview of the standard Rockpanel product range. Get your own copy at [www.rockpanel.co.uk/contact](http://www.rockpanel.co.uk/contact).



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Rockpanel Group is part of the Rockwool International A/S Group. Rockpanel manufactures board material for exterior cladding from the sustainable resource, basalt rock. Trends like stratification, organic forms and sustainability, in combination with a strong emphasis on costs and installation time, demand a flexible but robust board material to meet every desired format and shape.

The advantages of stone and wood are brought together in one product with Rockpanel. Rockpanel has been used for many years in numerous countries across the world for the finishing of facades, roofline applications and building details. The product is very often used as decorative cladding in ventilated structures, where the boards contribute to a cost-efficient and aesthetically high-quality outer shell for both renovation and new construction projects.

