



FIXING
TABLES

Determining the fixing distances

The following steps should be followed to determine the fixing distances:

Determine the design wind load

1. Define wind zone (Step 1)

Find the place where the project is located on the country map and note the relevant wind speed zone.

2. Define terrain category (Step 2)

Find the relevant terrain type in the overview of various terrain categories.

3. Define area on the façade: (Step 3)

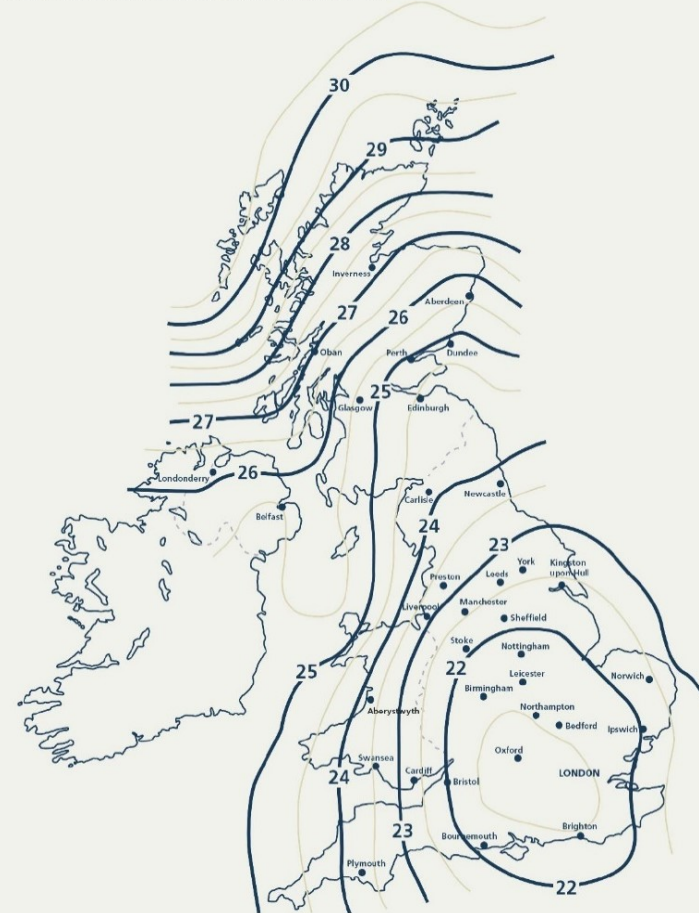
Define the area on the façade, Zone A or B. Zone A is decisive for keeping the fixing distances the same over the entire façade.

- Zone A for corner area
- Zone B for middle area

Consider the rules in standard EN 1991-1-4). If unknown or façades are very small use zone A as normative value.

4. Look up the design wind load in kN/m^2 in the table (Step

Step 1. Wind zones and basic wind velocities :



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

Step 2. Define terrain category

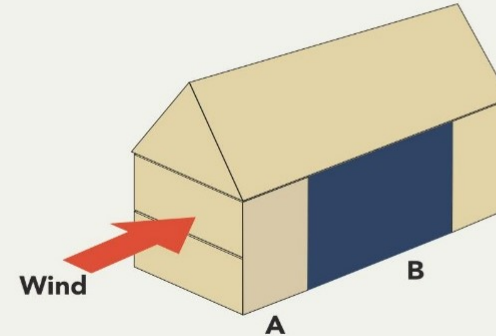
Terrain category (countryside)

Specified by the distance upwind to shoreline (km).

Terrain category (town)

Town located 10-100 km upwind to shoreline. Specified by the distance of the building into town (km).

Step 3. Define area on the facade



Step 4. Look-up the wind load

Value of fundamental basic wind velocity $v_{b,map}$ (m/s)													
United Kingdom		1) Wind Zone		28		26		25		23		22	
		3) Facade area		A	B	A	B	A	B	A	B	A	B
2) Terrain category													
Terrain Category - Countryside	Distance upwind to shoreline	≤0.1 to 1 km	-2.64	-1.76	-2.28	-1.52	-2.11	-1.41	-1.78	-1.19	-1.63	-1.09	
		1 to 10 km	-2.57	-1.71	-2.22	-1.48	-2.05	-1.37	-1.73	-1.16	-1.59	-1.06	
		10 to 100 km	-2.33	-1.55	-2.01	-1.34	-1.85	-1.24	-1.57	-1.05	-1.44	-0.96	
		≥100 km	-2.18	-1.46	-1.88	-1.26	-1.74	-1.16	-1.47	-0.98	-1.35	-0.90	
Terrain Category - Town located 10-100 km upwind to shoreline	Distance into town (km)	≤0.4 km	-2.33	-1.55	-2.01	-1.34	-1.85	-1.24	-1.57	-1.05	-1.44	-0.96	
		0.4 to 1 km	-2.31	-1.54	-1.99	-1.33	-1.84	-1.23	-1.56	-1.04	-1.43	-0.95	
		1 to 5 km	-2.14	-1.43	-1.84	-1.23	-1.71	-1.14	-1.44	-0.96	-1.32	-0.88	
		≥5 km	-1.92	-1.28	-1.66	-1.11	-1.53	-1.02	-1.30	-0.87	-1.19	-0.79	

Note: Building height ≤ 10 m / Site altitude ≤ 50 m

All information in this calculation is protected by copyright. This calculation does not constitute a static verification and is purely intended as orientation. The greatest possible care has been taken in determining the calculation method and the calculation. However, ROCKWOOL B.V / Rockpanel cannot warrant the completeness and accuracy of the information stated, the performance of its products, the calculation and/or any advice based on this. All calculations and statements relating to performance are approximations and will not bind ROCKWOOL B.V / Rockpanel. Customers are recommended to have our calculation and/or technical advice on their specific projects confirmed by the involved architects, specialist engineers, designers and/or contractors. For high-rise buildings and high-risk buildings Rockpanel recommends the application of non-combustible (Euroclass A1-A2-s1, d0) cladding and insulation.

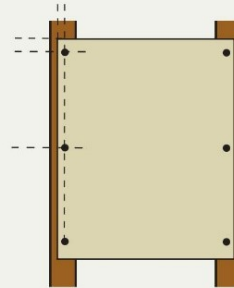
Step 5. Choose the correct table by:

- Type of board and thickness e.g., Rockpanel A2 8 mm
- Load absorption due to static scheme with 1 or 2- or more field span (5)
- Type of fastening system (e.g.)
- Timber with screws
- Aluminium with rivets

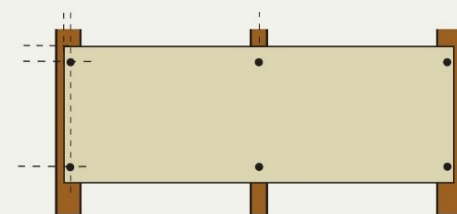
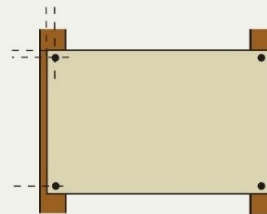
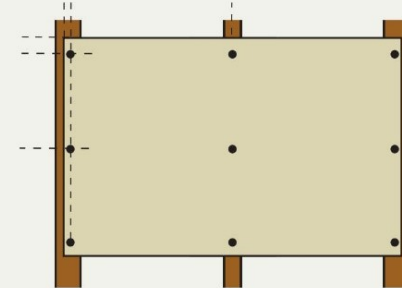
Step 6. Look up the max vertical distance possible and preferred span

- Use the wind load calculated in step 4
- Look up the centre-to-centre distance between the vertical sub construction (timber battens or metal profiles)
- Define the maximum fixing distance between the fasteners within the table

1-field-span



2- or more field-span



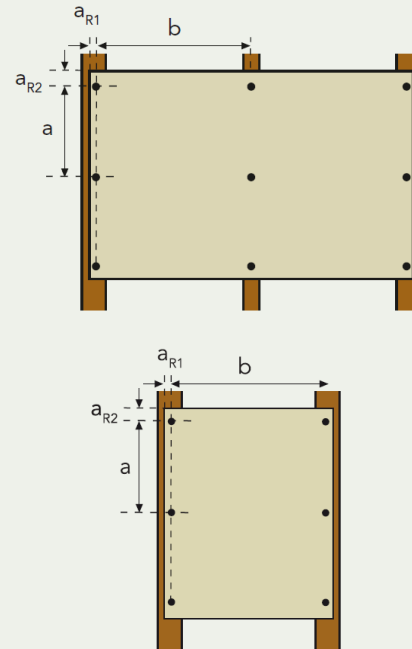
Step 5. Static schemes

Table of content

Rockpanel A2 8 mm

Nails on timber	<u>6 - 7</u>
Screws on timber	<u>8 - 9</u>
Screws on aluminium	<u>10 - 11</u>
Screws on steel	<u>12 - 13</u>
Rivets on aluminium	<u>14-15</u>
Rivets on steel	<u>16-17</u>

Legend for all tables



Legend:

- b Distance of the vertical sub construction carriers
- a_{R1} Edge distance, sub-construction: Timber $\geq 15\text{mm}$ or Metal $\geq 20\text{mm}$
- a_{R2} Edge distance $\geq 50\text{ mm}$
- a Vertical distance between fasteners in the board
- k_{mod} Modification coefficient for load duration and moisture content

ETA

Rockpanel boards need to be applied in all according ETA. For the latest information and updates of our ETA's please visit the Rockpanel website. Please see Rockpanel boards and corresponding ETA numbers below.

ETA-24/0910: Rockpanel Colours, Nordic and ProtectPlus A2 8 mm

Note: tables only for building height $\leq 10\text{ m}$. If the table shows no fixing distance (-) or building height $> 10\text{ m}$, contact Rockpanel for the possibilities and specific advice.

Calculation of fixing distances

High Performance nails on timber

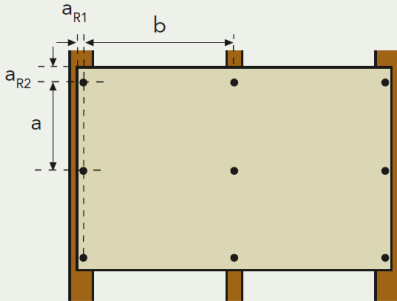
Coated Rockpanel A2 boards, 8 mm thickness

- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural
- Quality timber battens: \geq C18, service class 2 according EN 1995-1-1
- Thickness gasket max. 0.5 mm

a_{R1} Edge distance - timber ≥ 15 mm

a_{R2} Edge distance ≥ 50 mm

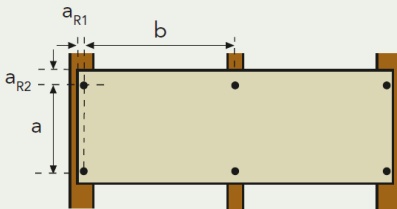
Ring-shank nail, High Performance 2.7/3.1 x 35 mm
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction (k_{mod} 1,1 for UK)

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²																A2 8 mm
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20	-2,30	
600	400	400	370	340	310	290	270	250	240	-	-	-	-	-	-	-	-
500	400	400	400	400	370	345	320	300	280	265	250	240	230	220	210	205	
400	400	400	400	400	400	400	395	370	350	330	310	295	280	270	260	250	
300	400	400	400	400	400	400	400	400	400	400	400	390	370	355	340	325	



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction (k_{mod} 1,1 for UK)

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²																A2 8 mm
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20	-2,30	
600	400	400	400	400	400	400	400	380	350	-	-	-	-	-	-	-	-
500	400	400	400	400	400	400	400	400	400	400	380	355	330	310	290	275	
400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	390	370	
300	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	

Calculation of fixing distances

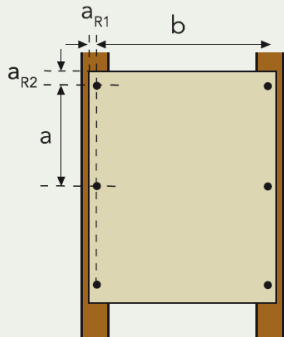
High Performance nails on timber

Coated Rockpanel A2 boards, 8 mm thickness

- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural
- Quality timber battens: \geq C18, service class 2 according EN 1995-1-1
- Thickness gasket max. 0.5 mm

a_{R1} Edge distance - timber ≥ 15 mm

a_{R2} Edge distance ≥ 50 mm

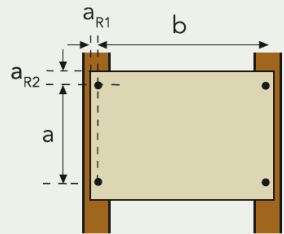


1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction (k_{mod} 1,1 for UK)

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
500	400	400	400	400	-	-	-	-	-	-	-	-	-	-	-	-	-	
400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
300	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	

Ring-shank nail, High Performance 2.7/3.1 x 35 mm
In all according ETA



1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction (k_{mod} 1,1 for UK)

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
500	400	400	400	400	-	-	-	-	-	-	-	-	-	-	-	-	-	
400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
300	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	

Calculation of fixing distances

Screws on timber

Coated Rockpanel A2 boards, 8 mm thickness

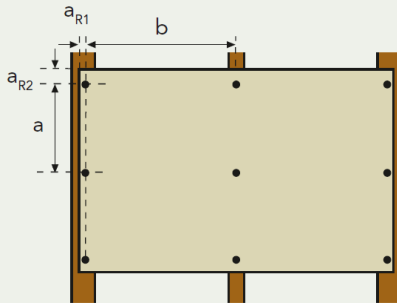
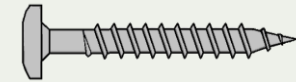
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural
- Quality timber battens: \geq C18, service class 2 according EN 1995-1-1
- Thickness gasket max. 0.5 mm

a_{R1} Edge distance - timber ≥ 15 mm

a_{R2} Edge distance ≥ 50 mm

Torx screw 4,5 x 35 mm

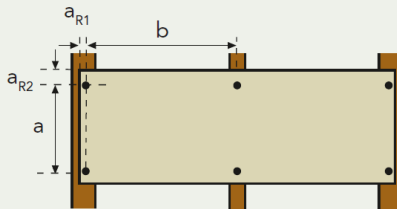
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	585	515	465	425	390	360	340	315	295	-	-	-	-	-	-	-	-
500	600	600	560	510	465	430	405	375	355	335	315	300	285	275	260	250	
400	600	600	600	600	580	540	500	465	440	415	390	370	355	335	325	310	
300	600	600	600	600	600	600	600	600	600	585	550	520	495	470	445	425	410



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	600	600	580	520	475	435	395	365	-	-	-	-	-	-	-	-
500	600	600	600	600	600	590	540	495	460	425	395	370	345	325	305	285	
400	600	600	600	600	600	600	600	600	600	560	520	490	460	430	405	385	
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	580	550	

Calculation of fixing distances

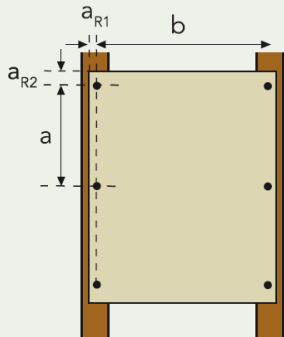
Screws on timber

Coated Rockpanel A2 boards, 8 mm thickness

- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural
- Quality timber battens: \geq C18, service class 2 according EN 1995-1-1
- Thickness gasket max. 0.5 mm

a_{R1} Edge distance - timber ≥ 15 mm

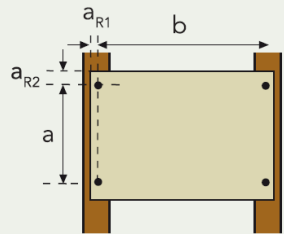
a_{R2} Edge distance ≥ 50 mm



1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm			
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30		
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
400	600	600	600	600	600	600	600	600	600	600	600	565	540	515	490	465	445	-	
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	575	-



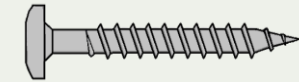
1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm			
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30		
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
500	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
400	600	600	600	600	600	600	600	600	600	600	600	600	600	570	540	510	480	-	
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	-

Torx screw 4,5 x 35 mm

In all according ETA



Calculation of fixing distances

Screws on aluminium

Coated Rockpanel A2 boards, 8 mm thickness

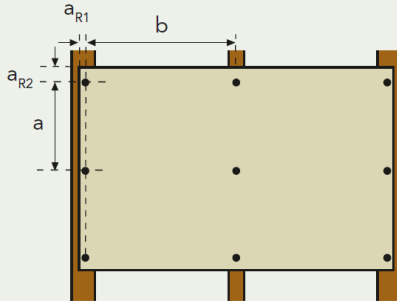
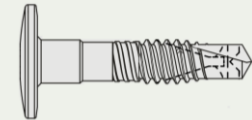
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Self-drilling screw aluminium

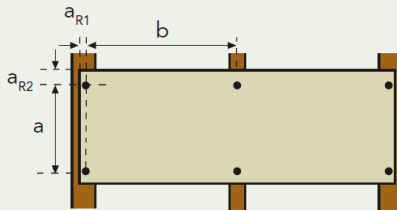
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	590	530	485	445	410	385	355	335	-	-	-	-	-	-	-	-
500	600	600	600	580	530	490	455	425	400	380	355	340	325	310	295	285	
400	600	600	600	600	600	600	570	530	500	470	445	420	400	380	365	350	
300	600	600	600	600	600	600	600	600	600	600	600	590	560	520	505	485	465



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	600	600	600	555	510	465	425	395	-	-	-	-	-	-	-	-
500	600	600	600	600	600	600	580	530	495	460	425	400	375	350	330	310	
400	600	600	600	600	600	600	600	600	600	600	600	560	525	495	465	440	415
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	590

Calculation of fixing distances

Screws on aluminium

Coated Rockpanel A2 boards, 8 mm thickness

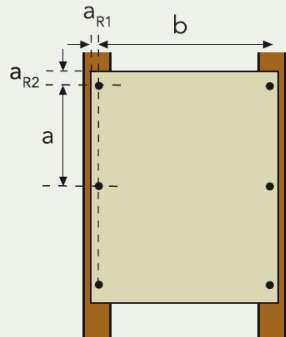
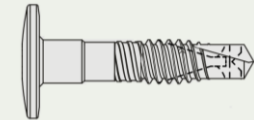
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Self-drilling screw aluminium

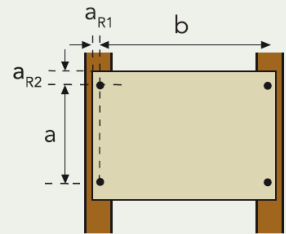
In all according ETA



1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	570	545	515	495	475
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600



1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	590	555	525	500	500
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600

Calculation of fixing distances

Screws on steel

Coated Rockpanel A2 boards, 8 mm thickness

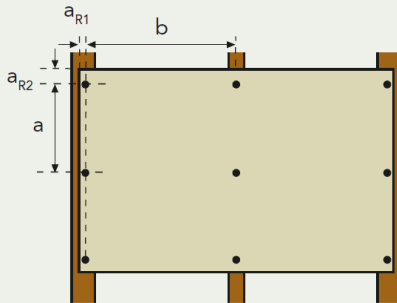
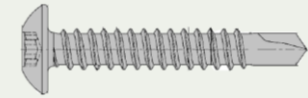
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Self-drilling screw steel

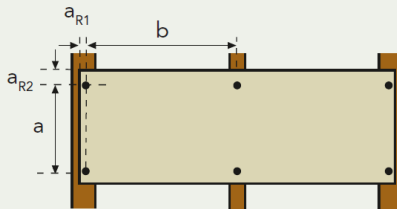
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	560	500	450	410	375	350	325	305	285	-	-	-	-	-	-	-	-
500	600	595	540	490	450	435	390	360	340	320	305	290	275	265	250	240	
400	600	600	600	600	600	520	485	450	425	400	375	360	340	325	310	300	
300	600	600	600	600	600	600	600	600	560	530	500	475	450	430	410	395	



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	600	600	600	600	585	535	490	455	-	-	-	-	-	-	-	-
500	600	600	600	600	600	600	600	600	600	565	530	490	460	435	405	385	365
400	600	600	600	600	600	600	600	600	600	600	600	600	570	535	505	480	
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	

Calculation of fixing distances

Screws on steel

Coated Rockpanel A2 boards, 8 mm thickness

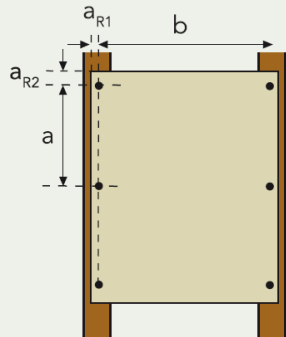
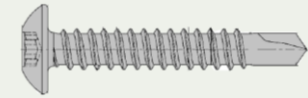
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Self-drilling screw steel

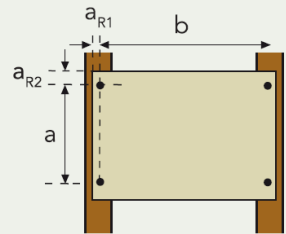
In all according ETA



1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-structure

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	600	580	555	530	-
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600



1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-structure

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600

Calculation of fixing distances

Rivets on aluminium

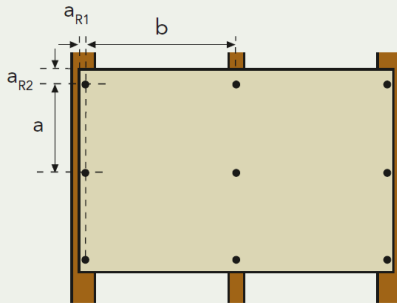
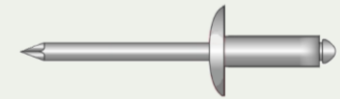
Coated Rockpanel A2 boards, 8 mm thickness

- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

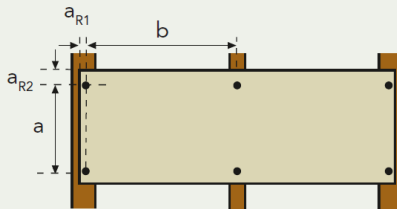
Rivet aluminium
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	575	520	475	435	400	375	350	330	-	-	-	-	-	-	-	-
500	600	600	600	565	510	480	445	415	390	370	350	330	315	300	290	275	
400	600	600	600	600	600	595	555	520	485	460	435	410	390	375	355	345	
300	600	600	600	600	600	600	600	600	600	600	600	575	545	520	495	475	450



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	600	600	600	600	600	565	515	475	435	-	-	-	-	-	-	-	-
500	600	600	600	600	600	600	600	590	545	510	475	445	415	390	370	350	
400	600	600	600	600	600	600	600	600	600	600	600	580	550	515	490	460	
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600

Calculation of fixing distances

Rivets on aluminium

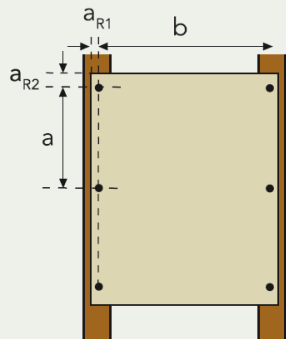
Coated Rockpanel A2 boards, 8 mm thickness

- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

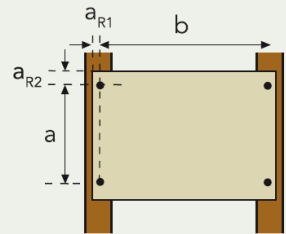
Rivet aluminium
In all according ETA



1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	590	565	540	515
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600



1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²															A2 8 mm	
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600

Calculation of fixing distances

Rivets on steel

Coated Rockpanel A2 boards, 8 mm thickness

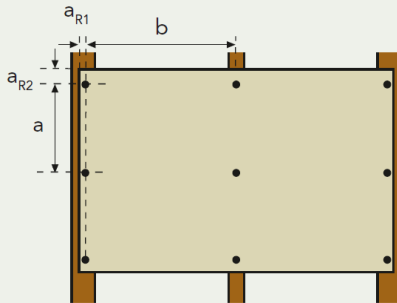
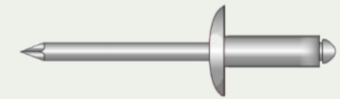
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Rivet steel

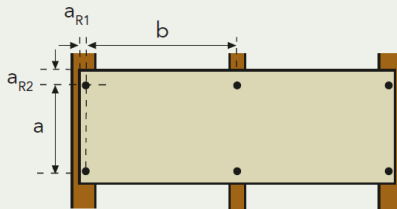
In all according ETA



2 or more field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²																A2 8 mm
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20	-2,30	
600	600	550	495	455	415	385	360	335	315	-	-	-	-	-	-	-	-
500	600	600	595	545	500	460	430	400	375	355	335	320	305	290	280	265	265
400	600	600	600	600	600	575	535	500	470	445	415	395	380	360	345	330	330
300	600	600	600	600	600	600	600	600	600	600	590	555	525	500	475	455	435



2 or more field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} * \gamma_F$) in kN/m ²																A2 8 mm
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20	-2,30	
600	600	600	600	600	600	595	545	500	465	-	-	-	-	-	-	-	-
500	600	600	600	600	600	600	600	600	580	540	500	470	445	415	390	370	370
400	600	600	600	600	600	600	600	600	600	600	600	600	580	545	515	490	490
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600

Calculation of fixing distances

Rivets on steel

Coated Rockpanel A2 boards, 8 mm thickness

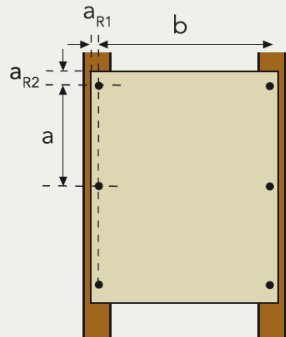
- ETA-24/0910 - Rockpanel A2 8 mm
- Tables only for building height ≤ 10 m
- Cavity closers (on the corners of the building)
- Maximum deflection of the panels 0.75%
- Not applicable for Rockpanel Natural

a_{R1} Edge distance - metal ≥ 20 mm

a_{R2} Edge distance ≥ 50 mm

Rivet steel

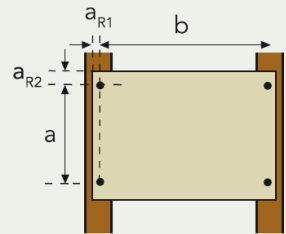
In all according ETA



1 field span, 3 or more fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} \cdot \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	600	590	565	540	-
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600



1 field span, 2 fixings

Maximum fixing distance (mm) a for different c.t.c. distances (b) of the vertical sub-construction

b (mm)	Design wind load on Rockpanel board ($F_d = F_{rep} \cdot \gamma_F$) in kN/m ²															A2 8 mm		
	-0,80	-0,90	-1,00	-1,10	-1,20	-1,30	-1,40	-1,50	-1,60	-1,70	-1,80	-1,90	-2,00	-2,10	-2,20		-2,30	
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
500	600	600	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600