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# TECHNICAL INFORMATION

Release 16 juni 2017 9:30 AM Make sure you always use the latest version. These can be downloaded from our website www.ozeon.nl chapter documentation See also www.ozeon.nl chapter technology for further technical information

# DISTANCES BETWEEN FASTENING POINTS

In the chapter "Distances between fastening points" the maximum approved fixing distances for flat boards of Durable grade fixed to a wooden or aluminium substructure are defined. However the fixing distances can differ for each project as the 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 ETA approval The table below shows the maximum fixing distances at a vertical timber substructure or aluminium substructure in accordance with ETA-07/0141 and ETA-08/0343.

Maximum fixing distances according approval						
	OZEON <sup>®</sup> 8 mm					
Fastening system	Maximale hori- zontale asafstand (mm)	Maximale verticale asafstand (mm)				
Torx screw according to specification	600	600				
Rivet	600	600				
Bonding system	The maximum span between the bonding strips at an 8 mm board will be 600 mm.					

#### Determining the fixing distances

When determining the fixing distances the following variables should be taken into

account:

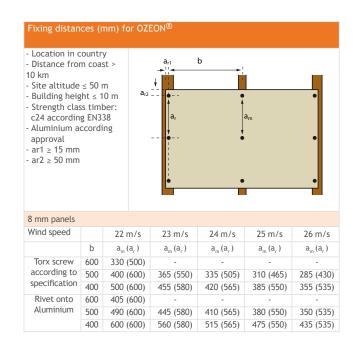
- Wind load
- Determine the fundamental local basic wind velocity;
- Determine the maximum height of the building;
- Determine the site altitude;
- Determine the distance from the coast;
- Determine the distance to the town border.

- Building area: zone A (corner area) or zone B (area between corners). For details see the figure below.
- Mechanical fixation on wooden 30 constructions Wind A = corner area B = area between the corners T = total building height 26 24 Oxford LONDO • 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 in, please contact Ozeon<sup>®</sup>.



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<ul> <li>Location in country</li> <li>Distance from coast &gt; 10 km</li> <li>Site altitude ≤ 50 m</li> <li>Building height ≤ 10 m</li> <li>Strength class timber:</li> </ul>		m	a <sub>r1</sub> →''	b	-	
- Strength class c24 according - Aluminium ac approval - $a_{r1} \ge 15 \text{ mm}$ - $a_{r2} \ge 50 \text{ mm}$	EN338	a <sub>r2</sub>	a 		a	•
8 mm panels						
Wind speed		22 m/s	23 m/s	24 m/s	25 m/s	26 m/s
	b	a	a	а	a	a
Torx screw	600	275	-	-	-	-
Torx screw		350	310	280	250	220
according to	500	550				205
	500 400	440	415	375	335	305
according to specification Rivet onto			415	375	335	- 305
according to specification	400	440				



## Details

#### Attachment methods:

Panel attachment also forms part of a certified system. The calculation values are laid down with the attachment methods as included in the European approval. It is therefore important to comply with this specification. See also www.ozeon.nl/bevestigingen. You will also find information on the use of adhesives here.

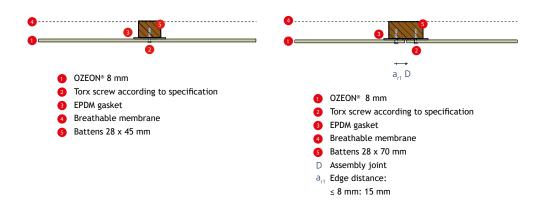
Specifications of the attachment methods are indicated in the detailed drawings as "Torx screw according to specification" and "Blind rivet according to specification":

Torx-Schraube gemäß Spezifikation	Blindniete gemäß Spezifikation
Torx screws Stainless steel material number 1.4401 or 1.4578	Flat-topped aluminium pop rivets ø 14mm AP14-50180-S Materiaal EN-AW-5019 in conformity with EN 755-2 Mandrel material number 1.4541 in conformity with EN 10088

The attachments that can be used for Ozeon panels are the same as those for Rockpanel panels. These attachment methods are stated in the ETA certification.

#### FACADE

1a. Mechanically fixed on timber support,



Fixing distances (mm) for OZEON<sup>®</sup>

b

600

500

400

600

500

400

22 m/s

а

-

-

565

-

-

600

23 m/s

а

-

-

515

-

-

580

24 m/s

а

-

475

-

565

25 m/s

а

-

435

-

550

26 m/s

а

-

-

-

-

Location in country
 Distance from coast >

Site altitude ≤ 50 m
Building height ≤ 10 m
Strength class timber:

c24 according EN338

Aluminium according

10 km

- a<sub>r1</sub> ≥ 15 mm

 $-a_{r2} \ge 50 \text{ mm}$ 8 mm panels

Wind speed

Torx screw

according to

specification

Rivet onto

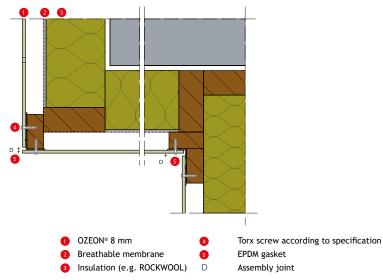
Aluminium

#### Adhesive installation

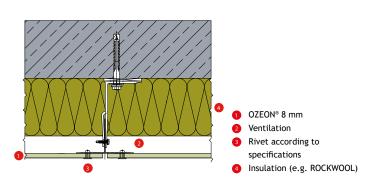
Adhesive installation of ROCKPANEL board material should be carried out according to the instructions of the adhesive system manufacturer and under the manufacturer's supervision and warranty conditions. In collaboration with the ROCKPANEL Group, Bostik has developed the ROCKPANEL Tack-S system (ETA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

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1b. Mechanically fixed to timber supports, internal and external corner

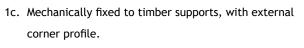


2a. | Mechanically fixed to aluminium supports, abutment vertical joint

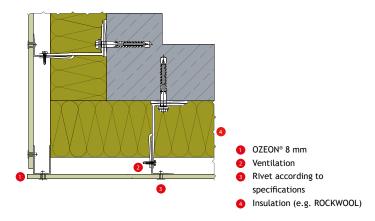


Important: For aluminium constructions in an open facade we recommends a cavity depth between 40 mm and 100 mm.

2b. | Mechanically fixed to aluminium supports, external





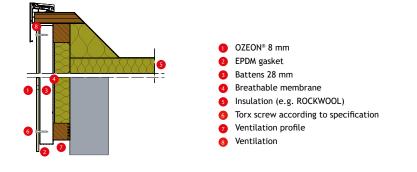




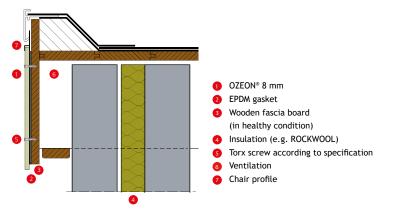


#### Roofline

#### 3a. Mechanically fixed to timber supports, fascia board

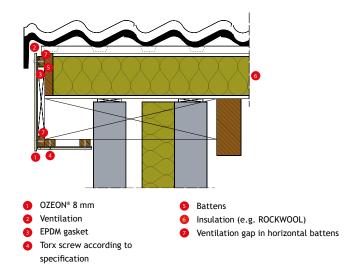


3b. Mechanically fixed to timber supports, fascia board renovation

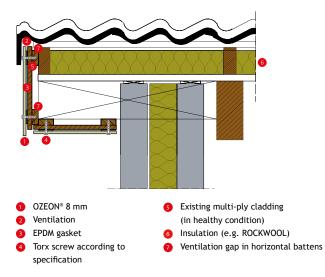


Attention: An EPDM gasket should be provided to ensure watertight connections at the point where the OZEON $^{\circ}$  sheet is fixed over the existing sub frame.

#### 3c. Mechanically fixed to timber supports, soffit board new build

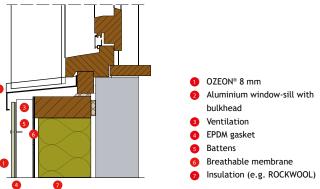


3d. Mechanically fixed to timber supports, soffit board renovation

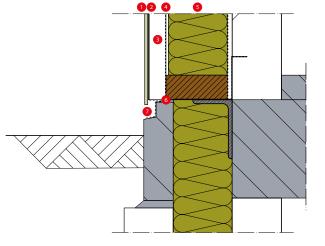




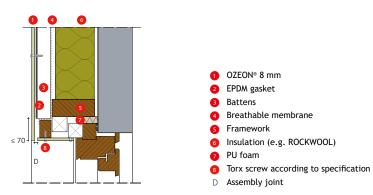
#### 4a. Mechanically fixed to timber supports, junction at window-sill

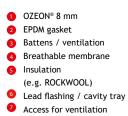






4b. Mechanically fixed to timber supports, junction at window head





4c. Mechanically fixed to timber supports, connection at ground

