

KRONOSPAN OSB BARRIER

PURPOSE

Kronospan OSB Barrier (OSB Barrier) is supplied for use as a bracing element, which when combined with a flexible underlay, provides a rigid underlay that acts as a vapour and air barrier with weathertight properties.

EXPLANATION

Kronospan OSB Barrier is an oriented strand board (OSB/3), manufactured from waterproof, heat-cured adhesives and rectangularly shaped wood strands that are arranged in cross-oriented layers.

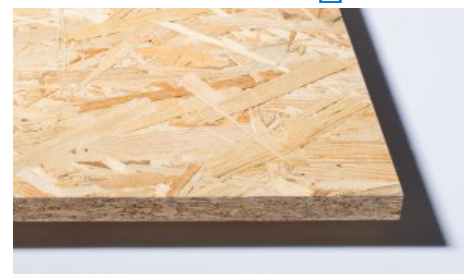
OSB is a strong, dimensionally stable panel that resists deflection, delamination and warping. The panels also resist racking and shape distortion when subjected to wind and seismic conditions. Relative to their strength, OSB panels are light in weight and easy to handle and install.

OSB/3 is defined under EN 300 as suitable for load-bearing conditions and for use in humid conditions. Humid refers to environments where panels are protected from external conditions but where moisture content can increase because of humidity.

OSB Barrier is supplied untreated.

The panels are available in the following sizes:

- 2440 x 1220 x 9 mm
- 2800 x 1220 x 9 mm.



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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In wind zones up to and including extra high as defined in NZS 3604:2011 or to a wind design pressure (ULS) of 2.6 kPa.	➤ Where the ULS exceeds 2.1 kPa, the primary structure must be specifically engineered in accordance with B1/VM1.
In all exposure zones as defined in NZS 3604:2011.	➤ Fixing material selection to be in accordance with section 4, NZS 3604:2011.
In all seismic zones.	
Greater than 1 m from a relevant boundary.	
Building	
In buildings where the relevant structure complies with the NZ Building Code or where the designer and installer have satisfied themselves that the existing structure is suitable for the intended building work.	➤ The building height must be less than 10 m unless specifically designed with respect to fire.
On timber or lightweight steel framing.	
As a wall bracing element.	➤ OSB Barrier must be installed on timber framing. ➤ Installation is to be in accordance with the relevant Scion test assembly.
As a rigid air barrier.	➤ OSB Barrier must be installed in conjunction with a flexible building wrap and a drained ventilated cavity that complies with all relevant provisions of the building code. ➤ OSB Barrier must also be installed in conjunction with an external cladding system and joinery that complies with all relevant provisions of the NZ Building Code. ➤ Where installed behind an open-jointed rainscreen, a flexible building wrap and tape must be installed. ➤ Where installed over lightweight steel framing, a thermal break is required.
Internally as part of a wall assembly or as an internal lining.	➤ Where used in areas prone to water splash, a waterproof membrane must be applied. ➤ If to be used internally and left exposed, OSB Barrier may only be used where a minimum performance as described by material group number 3 is required.

OTHER CERTIFICATIONS AND APPROVALS HELD BY KRONOSPAN

- RINA Services S.p.A. [21/03/2019] PEFC ST 2002:2013. Certificate no. RINA-PEFC-CoC-18.
- British Board of Agrément (BBA). [26/04/2016] Kronospan OSB/3 for sheathing. 07/4498 Product sheet 3.
- British Board of Agrément (BBA). [26/04/2016] Kronospan OSB/3 for sheathing. 13/4498 Product sheet 3.

- British Board of Agrément (BBA). [26/04/2018] Kronospan OSB/3 for sheathing. 18/5480 Product sheet 3.
- PFS TECO. [22/04/2019] Certificate of PS2 Approval. Performance Standard for wood-based structural use panels. Canadian Standards Association.

USEFUL INFORMATION

For design, installation and maintenance information, refer to globalbuild.nz.

CONDITIONS OF USE

- OSB Barrier must be used in conjunction with the fixing system specified in the GlobalBuild NZ OSB Barrier Design and Installation Guide.
- Where fire obligations apply, OSB Barrier must be specifically designed with respect to fire.
- Where exposed to the weather, OSB Barrier must be wrapped in a flexible building wrap within 14 days where untreated and 30 days where treated.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all GlobalBuild NZ requirements, OSB Barrier will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, , B1.3.3 (a, f, h), B1.3.4	ALTERNATIVE SOLUTION	- Manufactured to EN 13986:2004+A1:2015. Drevarsky ustav Timber Institute. [28/01/2019]. - Kronospan. Technical datasheet. [01/11/2018]. - Scion P21 testing. [28/02/2020].
B2 DURABILITY B2.3.1 (a)	ALTERNATIVE SOLUTION	- BBA certification refers to compliance with BS-EN 300:2006 Oriented Strand Boards for use in environmental conditions classes 1 and 2 for wood based products in BS-EN 335:2013 [26/04/2018]. - External cladding/joinery system compliance.
E2 EXTERNAL MOISTURE E2.3.2, E2.3.5	ALTERNATIVE SOLUTION	- APA. Water Vapour Permeance of Wood Structural Panels and Wood Wall Construction [02/2009] - PS 2-18 Performance Standard for Wood-Based Structural-Use Panels certification by PFS-TECO - BBA certification refers to compliance with BS-EN 300:2006 Oriented Strand Boards for use in environmental conditions classes 1 and 2 for wood based products in BS-EN 335:2013 [26/04/2018].
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	- Formaldehyde release in accordance with EN 13986:2004+A1:2015. Drevarsky ustav Timber Institute. [28/01/2019]. - Treatment protocol by treatment supplier.

SOURCES OF INFORMATION

- APA. [02/2009]. Technical note J450. Retrieved from <https://www.norbord.com/na/wp-content/uploads/2017/07/Moisture-Vapor-and-Perms-J450.pdf>. Accessed 24/07/2020.
- British Board of Agreement (BBA). [26/04/2018]. *Kronospan OSB/3 for sheathing*. 18/5480 Product sheet 3
- Drevarsky ustav Timber Institute. (28 January 2019). *Certificate of conformity of the factory production control*. Certificate 1393-CPR-0522 to EN 13986:2004+A1:2015.
- Kronospan. [11/2018]. Declaration of performance. No. 1393-CPR-0522. V1.
- Kronospan. (6 January 2015) *Oriented Strand Board Technical Data*. Reference KC/QUAL/DOC/0025
- Global Build NZ. (n.d) Kronospan OSB Barrier Design and Installation Guide. V1.0
- PFS TECO. [01/11/2018]. *Certificate of PS2-10 Approval*. Performance Standard for wood-based structural use panels. Canadian Standards Association.
- Scion. [2/02/2020]. *P21:2010*. 9 mm Kronospan OSB 10 mm 400 wall with brackets.
- Scion. [28/02/2020]. *P21:2010*. 9 mm Kronospan OSB 10mm GIB standard 1200 wall with brackets.
- Scion. [28/02/2020]. *P21:2010*. 9 mm Kronospan OSB 10 mm GIB standard 400 wall with brackets.
- Scion. [28/02/2020]. *P21:2010*. 9 mm Kronospan OSB 10 mm GIB standard 600 wall with brackets.

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

globalbuild.nz/documentation



1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

Global Build confirms that if Kronospan OSB Barrier is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue: 25/08/2020

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NZBN: 9429037060695

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Global Build has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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