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BUILDING ELEMENTS ASSEMBLED FROM OSB FOR STRUCTURAL AND NON-STRUCTURAL APPLICATIONS

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Attest holder

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Declaration of SKH

This attest has been issued on the basis of AD 1106 'OSB Oriented Strand Board' dd. 01-05-2005 including amendment sheet dd. 09-09-2016, in accordance with the SKH Regulations for Certification.

The performance of building elements assembled from OSB for structural and non-structural applications has been assessed in relation to the Building Act and the principles of the assessment are reassessed periodically.

Based on this, SKH declares that:

The building elements assembled from this OSB provide the performance as included in this attest and these building elements meet the Building Act requirements included in this attest, providing:

- the technical specification and applications conditions defined in this attest are met;
- the production of the building elements occurs in accordance with the conditions and/or processing methods stipulated in this attest.

In the context of this attest, no inspection of the manufacture of the OSB takes place, neither of its composition nor of the assembly into building elements.

For SKH

drs. H.J.O. van Doorn, director

This attest is also included in the overview on the website of the KOMO foundation: <http://www.komo.nl>.

Users of this attest are advised to verify whether this certificate is still valid; consult the SKH-website: <http://www.skh.nl>.

This attest consists of 6 pages.

Consult the Dutch version in case of doubt.



Building Act

The following has been assessed:
• One-off performance in the application
Reassessment every 5 years

BUILDING ELEMENTS ASSEMBLED FROM OSB FOR STRUCTURAL AND NON-STRUCTURAL APPLICATIONS

1 TECHNICAL SPECIFICATION

1.1 Subject

This attest concerns the performance of building elements assembled from OSB for structural and non-structural applications.

1.2 Product specification

The statements in this attest for building elements assembled from OSB for structural and non-structural) applications are valid providing the OSB meets the conditions below:

Property	Determination method	AD requirement
Characteristic values of the mechanical properties*	NEN-EN 310	No requirement
Limiting the development of fire and smoke	NEN-EN 13501-1 or derived from Table 8 in NEN-EN 13986	Inside surface fire class at least D and smoke class at least s2. Outside surface fire class at least D. Walkable surface fire class at least D _{fi} and smoke class at least s1 _{fi} .
Restriction on the use of harmful materials	NEN-EN 13986 Annex B	At least E1

* = optional

2 PERFORMANCE BASED ON THE BUILDING ACT

BUILDING ACT ENTRY (ONLY FOR BUILDING PURPOSES)

No.	Section	Limiting value/ method of determination	Performance according to quality declaration
2.1	General strength of the building construction	Ultimate threshold building construction, calculation according NEN-EN 1995-1-1 (including national annex), NEN-EN 1990 (including national annex) and NEN-EN 1991-1-1/3/4/5 (including national annex)	Application examples stating the performance which proves that the requirements imposed are met
2.9	Restriction of development of fire and smoke	Indoor surface	at least fire class D and at least smoke class s2
		Outdoor surface	At least fire class D
		Walkable surface	At least fire class D _{fi} and at least smoke class s1 _{fi}
		Part of construction	No performance mentioned
3.9	Restriction of the presence of harmful substances and ionising radiation	According to Ministerial regulation	No performance mentioned

* = optional

BUILDING ELEMENTS ASSEMBLED FROM OSB FOR STRUCTURAL AND NON-STRUCTURAL APPLICATIONS

2.1 PERFORMANCE FROM A SAFETY VIEWPOINT

GENERAL STRENGTH OF THE BUILDING STRUCTURE; BA Section 2.1
(Only for structural applications)

2.1.1 **Strength of the building structure; BA Articles 2.2, 2.3 and 2.4**

The ultimate limiting condition of the building structure must be calculated in accordance with NEN-EN 1995-1-1 (incl. national appendix) in combination with the loads and load combinations described in NEN-EN 1990 (incl. national appendix) and NEN-EN 1991-1-1/3/4/5 (incl. national appendix). In this, for the determination of the performance of the OSB, use is made of the characteristic values of the mechanical properties of the OSB mentioned in the declaration of performance.

LIMITING THE DEVELOPMENT OF FIRE AND SMOKE; BA Section 2.9

2.1.2 **Indoor surface; BA Article 2.67**

In application bordering on the indoor air in structural elements (such as walls and ceilings), BA Article 2.67 distinguishes among 'extra-protected escape route', 'protected escape route' and 'other':

Extra-protected escape route

OSB may not be used bordering on the indoor air in structural elements (such as walls and ceilings).

Protected escape route

OSB of 9 mm and thicker and with a density of at least 600 kg/m³ (or the reaction to fire values have been determined to be D-s2,d0), may be used bordering on the indoor air in structural elements (such as walls and ceilings) in the following usage functions:

- Other residential function
- Other meeting function
- Other healthcare function
- Other industrial function
- Office function
- Educational function
- Sports function
- Retail function
- Other usage function

Other

OSB of 9 mm and thicker and with a density of at least 600 kg/m³ (or the reaction to fire values have been determined to be D-s2,d0), may be used bordering on the indoor air in structural elements (such as walls and ceilings) in the following usage functions:

- Residential function
- Meeting function
- Healthcare function
- Other industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Application conditions

OSB of less than 9 mm and / or a density inferior to 600 kg/m³ may not be used bordering on the indoor air in structural elements (such as walls and ceilings), unless the reaction to fire values have been determined to be D-s2,d0.

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2.1.3 Walkable surface; BA Article 2.69

In application for the upper surface of a floor, a stair or an access ramp, BA Article 2.69 distinguishes among 'extra-protected escape route', 'protected escape route' and 'other':

Extra-protected escape route

OSB may not be used for the upper surface of a floor, a stair or an access ramp.

Protected escape route

OSB of 9 mm and thicker and with a density of at least 600 kg/m³ (or the reaction to fire values have been determined to be D-s2,d0), may be used for the upper surface of a floor, a stair or an access ramp in the following usage functions:

- Other residential function
- Meeting function
- Healthcare function
- Industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Other

OSB of 9 mm and thicker and with a density of at least 600 kg/m³ (or the reaction to fire values have been determined to be D-s2,d0), may be used for the upper surface of a floor, a stair or an access ramp in the following usage functions:

- Residential function
- Meeting function
- Healthcare function
- Industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Application conditions

OSB of less than 9 mm and / or a density inferior to 600 kg/m³ may not be used for the upper surface of a floor, a stair or an access ramp), unless the reaction to fire values have been determined to be D-s2,d0.

2.2 PERFORMANCE FROM A HEALTH VIEWPOINT

REDUCING THE PRESENCE OF HARMFUL SUBSTANCES AND IONISING RADIATION;
BA Section 3.9

2.2.1 Ministerial regulations; BA Article 3.63

The OSB shall at least meet class E1.

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3 SUGGESTIONS FOR THE USER

3.1 On delivery of the OSB inspect whether:

- the OSB meets the specification and application conditions included in this attest;
- what has been delivered corresponds with what has been agreed;
- the products do not show any visible defects as a result of transport, etc.;
- processing and/or maintenance instructions are available.

If the products are rejected on the basis of the above, contact shall be made with:
Kronospan OSB Sp. z o.o. and if desirable: The certification-body SKH.

3.2 Attest

It is the duty of the producer to make sure that the buyer receives a copy of the complete attest.

3.3 Application and use

Transport, storage and processing are to be carried out in accordance with the conditions included in this attest.

3.4 Period of validity

Consult the SKH-website: <http://www.skh.nl> to verify whether the attest is still valid.