

Technical specification of production

Product: OSB Firestop

General Requirements (acc. EN 300)

Properties		Test Method	Requirement
Tolerance on nominal dimensions	Thickness	EN 324-1	± 0,8 mm
	Length and width		± 3 mm
Tolerance of edge straightness		EN 324-2	1,5 mm/m
Tolerance of squareness			2 mm/m
Moisture content		EN 322	2 - 12 %
Tolerance of density		EN 323	± 15 %
Formaldehyde release		EN 717-1	< 0,03 ppm

Specific Requirements on Pyrotite® coat surface

Properties		Requirement
Tolerance on nominal dimensions	Thickness of Pyrotite® coat with glass fibres	min. 1 mm
	Termination of Pyrotite® coat with glass fibres at the OSB board edge	Straight edge + 0 / -5 mm Tongue / Groove + 0 / -2 mm
Pyrotite® surface flatness deviation (coat thickness, blistering, cracked bubbles etc.)		± 0,5 mm
Vertical step at T+G joint between panels after assembly measured at a relative humidity 65 ± 5% and temperature of 20 ± 2°C (only from Pyrotite® coat side)		max. 0,8 mm
Colour divergences of Pyrotite® coat surface		tolerable *

* Colour divergences of surface unify the topcoat (e.g. interior acryl paint).

Strengthness and moisture resistance (acc. EN 300, OSB/3)

Properties		Test Method	Unit	Thickness (mm, nominal dimension)			
				8 - 10	> 10 - 18	> 18 - 25	> 25 - 30
Bending strength	Major axis	EN 310	N/mm ²	22	20	18	16
	Minor axis			11	10	9	8
Modulus of elasticity in bending	Major axis	EN 310	N/mm ²	3500	3500	3500	3500
	Minor axis			1400	1400	1400	1400
Internal Bond		EN 319	N/mm ²	0,34	0,32	0,30	0,29
	After boil test ²	EN 321		0,15	0,13	0,12	0,06
	After cyclic test ¹	EN 321		0,18	0,15	0,13	0,10
Bending strength after cyclic test – main axis ¹		EN 1087-1	N/mm ²	9	8	7	6
Swelling in thickness after 24 hours		EN 317	%	15	15	15	15

NOTE:

The values are valid for moisture content in the materials corresponding to a relative humidity of 65 % and temperature 20 °C. Strength properties are related to OSB Firestop nominal thickness reduced by 1 mm. Assessment of strength properties shall be set for row OSB board itself. For instance assessment of OSB Pyrotite ECO in th. 16 mm shall be set for measurement of OSB/3 in th. 15 mm.

¹Option 1, ² Option 2; Manufacturer must follow one of these options.

The table values of strength are not characteristic values for use in the design of framed structures (e.g. according to EN 1995-1-1).