



Extra-WR

Product class

P5

Standard reference

EN 312

Producer

SPANO

Solution



MOISTURE RESISTANT
Wood Based Solutions



CONSTRUCTION/FLOORING
Wood Based Solutions

Scope

Moisture-resistant board for load-bearing applications in humid conditions.

Description

High-density chipboard with a fine sanded surface and a particularly screwable core, MUF glued. The board is subject to minimal expansion and swelling in conditions of high humidity. Suitable for load-bearing applications in humid conditions, it can be refined with paper, melamine, veneer or laminate. The board is easy to mill and has low formaldehyde emission (E1 class).

Use of the product

The board can be applied in service class 2 (restrictions in temperature and ambient humidity) and can only be used in biological hazard classes 1 and 2 of EN 335-3. During and especially after installation the boards must be optimally protected from any direct contact with water. They must be stacked flat, on a pallet or using a sufficient number of cross members. Boards should not be stored vertically, unless ground contact can be avoided. The board will expand or shrink under variable humidity conditions, albeit to a lesser extent than the Standard E1, meaning that an expansion space must be provided for at all times. Use suitable sawing, milling and drilling tools. The Extra WR can be used for structural floors (see Durelis Floor), walls and roofs. When used on roofs, the boards may be placed both below and above the insulation (hot and cold roof). In service class 2, corrosion resistant fittings must be used, e.g., galvanised steel. Nails or screws should be kept at least 8 mm away from the edge of the board.

Dimensions and stock range

Thickness: 8 to 22 mm. Width: 2030 - 2100 to length 5700 and 2440 - 2620 to length 6300

Spano has high-capacity saws that support all sawing dimensions. In principle, all thicknesses and lengths/widths are available within the press capabilities. Contact our agent or mail to sales@spano.bg.

Stock range

Dimensions Extra-WR	Quantities per pack						
Thickness	10	12	16	18	19	22	28
125x250	90	75	50	50		40	30
125x305	90	75	50	50			30

Technical specifications

General characteristics + standard	Unit	Average values						
Thickness EN 324-1	mm	10	12	15	18	19	22	28
Density EN 323	Kg/m ³	740	720	720	720	700	700	670
Moisture content EN 322	%	6-10	6-10	6-10	6-10	6-10	6-10	6-10
Water vapour permeability	μ			± 40	± 40	± 40	± 40	± 40
Technical characteristics + standard		5/95 Percentile values						
Bending strength EN 310	N/mm ²	18	18	16	16	16	14	12
Internal bond EN 319	N/mm ²	0,45	0,45	0,45	0,45	0,45	0,40	0,35
Modulus of elasticity EN 310	N/mm ²	2550	2550	2400	2400	2400	2150	1900
Swelling/24h EN 317	%	11	11	10	10	10	10	10
Internal bond after cyclic test EN 321 option 1	N/mm ²	0,25	0,25	0,22	0,22	0,22	0,20	0,17
Swelling after cyclic test EN 321 option 1	%	12	12	12	12	12	11	10

General specifications

Nº	Property	Test method	Requirement
1a	Tolerances on nominal dimensions	EN 324-1	
	- Thickness (sanded) within and between boards		± 0,3 mm
	- Thickness (unsanded) within and between boards		- 0,3 mm + 1,7 mm
	- Length and width		± 5 mm
2a	Edge straightness tolerance	EN 324-2	1,5 mm per m
3a	Squareness tolerance	EN 324-2	2 mm per m
4	Moisture content	EN 322	5% to 13%
5a	Tolerance on the mean density within a board	EN 323	± 10 %
6b	Formaldehyde release according to EN 13986		
	- Class E 1		
	Perforator value	EN 120	Content ≤ 8mg/100g oven dry board (d)
	Steady state emission value (c)	ENV 717-1	Release ≤ 0,124 mg/m ³ air

(a) These values are characterized by a moisture content in the material corresponding to a relative humidity of 65% and a temperature of 20 °C.

(b) The perforator values apply to boards with moisture contents H of 6,5 %. In the case of particleboards with different moisture content (in the range of 3 % ≤ H ≤ 10 %) the perforator value shall be multiplied by a factor F which can be calculated from the following equation:

$$F = - 0,133 H + 1,86$$

(c) Required for initial type testing other than for established products where initial type testing may also

be done on the basis of existing data with EN 120 or ENV 717-1 testing, either from factory production control or from external inspection.

(d) Experience has shown that to ensure compliance with these limits, the rolling average of the EN 120 values found from the internal factory production control over a period of ½ year should not exceed 6,5 mg HCHO/100 g panel mass.

The board meets the specifications of EN 312, P5, option 1, cyclic test, in which the board is immersed in water, frozen and finally dried. This cycle is repeated 3 times, after which the test specimens are tested for swelling and internal bond strength. The board is CE marked and checked daily by the in-house lab.



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