



Durélis/Populair® Floor

Product class

P5

Standard reference

EN 312

Producer

SPANO

Solution



MOISTURE RESISTANT
Wood Based Solutions



CONSTRUCTION/FLOORING
Wood Based Solutions

Scope

Tongue and groove waterproof Durélis/Populair® is suitable for laying structural and non-structural floors, also in humid conditions. The panels can also be used in vertical applications.

Description

High-density chipboard with special oblique tongue profile, on two or four sides. The tongue profile ensures high stability and easy installation and allows blind nailing or screwing of the panels.

Durélis/Populair® Floor has high rigidity and a hard, unsanded surface. This provides Durélis/Populair® Floor with great impact resistance. The hard, highly closed surface greatly facilitates cleaning of the floor.

Durélis/Populair® Floor is produced with a melamine glue, allowing the board not only to preserve its basic strength but also to minimise swelling and linear dimensional change, even in highly humid conditions.

Use of the product

The board can be applied in service class 1 or 2 (restrictions in temperature and ambient humidity) and can only be used in biological hazard classes 1 and 2 of EN 335-3 (see product sheet of board types). For non-structural applications, WR TG4 can be used. 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. Stacking on the tongue must be avoided. The board will expand or shrink under variable humidity conditions, meaning that an expansion space must be provided for at all times. Use suitable sawing, milling and drilling tools.

The choice of floor type is determined by the required loading capacity and the expected conditions (service class). The tongue and groove panels can be coated with a floorcovering. To ensure good floor stability and flatness, the following operations are recommended: determine optimal combination of rafter distance and board type, lay boards in a bond pattern, place short side square on the cross member, apply

PVAc glue in groove, fill small openings, sand floor and level before installing the floorcovering.

The circumference of the floor and the sawn sides must be supported by cross members. Make sure the panels are supported over minimum 18 mm.

With some floors, moisture may leak from the wood or concrete. This must be avoided by fitting a vapour barrier.

Dimensions and stock range

Special dimensions are possible: contact our agent or mail to sales@spano.be.

Stock range

Dimensions Durélis/Populair® Floor	Quantities per pack					
Thickness	12	15	18	19	22	25
60x240					31	
61x244	150		100		80	
91x204				45	40	35
122x244			50		40	
122x366			39			
81,8x248,3	75					
81x247,6		60	50		40	
66,6x247,6			50			

Technical specifications

General characteristics + standard	Unit	Average values			
Thickness EN 324-1	mm	18	19	22	25
Density EN 323	Kg/m ³	700		680	690
Moisture content EN 322	%	6-10	6-10	6-10	6-10
Water vapour permeability	μ	± 50	± 50	± 50	± 50
Technical characteristics + standard		5/95 Percentile values			
Bending strength EN 310	N/mm ²	16	16	14	14
Internal bond EN 319	N/mm ²	0,45	0,45	0,40	0,40
Modulus of elasticity EN 310	N/mm ²	2400	2400	2150	2150
Swelling/24h EN 317	%	10	10	10	10
Internal bond after cyclic test EN 321 option 1	N/mm ²	0,22	0,22	0,20	0,20
Swelling after cyclic test EN 321 option 1	%	12	12	11	11

General specifications

N°	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 three 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.

Load tables

Load table Durélis/Populair® Floor for TREADING (=temporary load) - floating installation - Service class 1 (dry conditions)					
Uniformly distributed load in kN/m ² - deflection max. 1/300					
RAFTER DISTANCE (m)	NOMINAL THICKNESS (mm)				
	P5 class (EN312)				
	16	18	19	22	25
0,40	10,42	14,87	17,51	24,74	36,36
0,45	6,47	9,24	10,88	15,39	22,64
0,50	4,21	6,02	7,10	10,05	14,80
0,55	2,84	4,07	4,81	6,82	10,05
0,60	1,97	2,84	3,36	4,77	7,05
0,65	1,40	2,03	2,40	3,42	5,07
0,70	1,02	1,48	1,75	2,51	3,73
0,75	0,74	1,09	1,30	1,87	2,79
0,80	0,55	0,82	0,98	1,41	2,12
0,85	0,41	0,61	0,74	1,07	1,63

0,90	0,30	0,46	0,56	0,83	1,26
0,95	0,22	0,35	0,43	0,64	0,98
1,00	0,16	0,26	0,33	0,49	0,77

Load table Durélis/Populair® Floor for STORAGE (=long-term load, 6 months - 10 years) - floating installation - Service class 1 (dry conditions)					
Uniformly distributed load in kN/m ² - deflection max. 1/200					
RAFTER DISTANCE (m)	NOMINAL THICKNESS (mm)				
	P5 class (EN312)				
	16	18	19	22	25
0,40	2,48	3,56	4,20	5,96	8,80
0,45	1,51	2,18	2,58	3,67	5,43
0,50	0,95	1,39	1,65	2,36	3,51
0,55	0,62	0,91	1,08	1,56	2,34
0,60	0,40	0,61	0,73	1,06	1,61
0,65	0,26	0,41	0,49	0,73	1,12
0,70	0,17	0,27	0,34	0,51	0,79
0,75	0,10	0,18	0,22	0,35	0,56
0,80	0,05	0,11	0,14	0,24	0,40
0,85	0,02	0,06	0,09	0,15	0,28
0,90		0,02	0,04	0,09	0,19
0,95				0,05	0,12
1,00				0,01	0,07

Load table Durélis/Populair® Floor for TREADING (=temporary load) - floating installation - Service class 2 (humid conditions)					
Uniformly distributed load in kN/m ² - deflection max. 1/300					
RAFTER DISTANCE (m)	NOMINAL THICKNESS (mm)				
	P5 class (EN312)				
	16	18	19	22	25
0,40	7,55	10,78	12,70	17,96	26,40
0,45	4,67	6,69	7,88	11,15	16,42
0,50	3,03	4,35	5,13	7,27	10,72
0,55	2,04	2,93	3,46	4,92	7,27
0,60	1,41	2,03	2,41	3,43	5,08
0,65	0,99	1,44	1,71	2,45	3,65
0,70	0,71	1,04	1,24	1,78	2,67
0,75	0,51	0,76	0,91	1,32	1,99
0,80	0,37	0,56	0,68	0,99	1,50
0,85	0,27	0,41	0,50	0,74	1,14

0,90	0,19	0,30	0,37	0,56	0,87
0,95	0,13	0,22	0,28	0,42	0,67
1,00	0,09	0,16	0,20	0,32	0,52

Load table Durélis/Populair® Floor for STORAGE (=long-term load, 6 months - 10 years) - floating installation - Service class 2 (humid conditions)

Uniformly distributed load in kN/m² - deflection max. 1/200

RAFTER DISTANCE (m)	NOMINAL THICKNESS (mm)				
	P5 class (EN312)				
	16	18	19	22	25
0,40	1,33	1,92	2,28	3,25	4,82
0,45	0,79	1,16	1,38	1,97	2,95
0,50	0,48	0,72	0,86	1,24	1,88
0,55	0,29	0,45	0,55	0,80	1,23
0,60	0,18	0,28	0,35	0,52	0,82
0,65	0,10	0,17	0,22	0,34	0,55
0,70	0,05	0,10	0,13	0,22	0,37
0,75		0,04	0,07	0,13	0,24
0,80			0,02	0,07	0,15
0,85				0,02	0,08
0,90					0,03
0,95					
1,00					



Thursday, January 12, 2012

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