



Antivlam® - Class 1/M1/B1

Product class

P2

Standard reference

EN 312

Producer

SPANO

Solution



Scope

Fire retardant chipboard for use in dry conditions.

Description

Chipboard with sanded, fine surface and particularly screwable core. Suitable for industrial processing for interior decoration and furniture production, it can be refined with paper, melamine, laminate or veneer. The board is heat- and fire-resistant and has low formaldehyde emission (E1 class). The board is used in particular in public buildings such as hospitals, airports, rest homes, theatres, hotels, etc. Antivlam® withstands extreme heat and fire, does not contribute to flame spread and has a smoke development comparable to that of natural wood.

Use of the product

The board must be applied in service class 1 (restrictions in temperature and ambient humidity) and can only be used in biological hazard class 1 of EN 335-3. The boards must be 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. Use suitable sawing, milling and drilling tools. Fire retarding products may cause deposits on tools and thereby shorten service life.

The fire retarding products and dyes in the board may in exceptional cases affect certain glues or paints. Always perform a test before use.

Dimensions and stock range

Thickness: 8 to 25 mm. Width and length: 2030 - 2100 to 5700 length and 2440 - 2620 to 6300 length. 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.be.

Stock range

Dimensions	Quantities per pack
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Antivlam®								
Thickness	10	12	15	16	18	19	22	
125x255	63	52	42	39	36	40	29	
125x305	53	44	35	33	30	40	24	
207x280				30		25		
207x411						25		

Technical specifications

General characteristics + standard	Unit	Average values						
Thickness EN 324-1	mm	10	12	15	16	18	19	22
Density EN 323	Kg/m ³	765	745	725	715	715	705	705
Moisture content EN 322	%	6-10	6-10	6-10	6-10	6-10	6-10	6-10
Technical characteristics + standard		5/95 Percentile values						
Bending strength EN 310	N/mm ²	13	13	13	13	13	13	11,5
Internal bond EN 319	N/mm ²	0,40	0,40	0,35	0,35	0,35	0,35	0,30
Modulus of elasticity EN 310	N/mm ²	1800	1800	1600	1600	1600	1600	1500
Surface soundness EN 311	N/mm ²	0,8	0,8	0,8	0,8	0,8	0,8	0,8

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.

Antivlam® has the following classification in reaction to fire: B-s2,d0. The substances that are released when exposed to heat are no more harmful than those released by natural wood. The ignitable gases are only released at approx. 450°C as opposed to 280°C in the case of untreated wood. These gases are not corrosive and do not adversely affect other materials.

Antivlam® self-extinguishes when the heat source is removed. The ignition temperature of Antivlam® is 700°C compared to 450°C for certain types of untreated wood.

The burnthrough time of Antivlam® is 30 mm/hour or 0.5 mm/min. Antivlam® long retains its mechanical strength in the event of fire.

Spano holds the following product certificates:

ISIB België: Antivlam® with melamine

UK: class 1 Warrington reports for Antivlam® and Antivlam® melaminated

France: M1

Italy: Classe Prime

Germany: B1

Switzerland: report EMPA

Certificado Spain

Netherlands: TNO Class 1

USA: reports on Surface Burning Characteristics, Reston, Virginia

USA: reports on Surface Burning Characteristics Tests of Building Materials, Underwriters Laboratories Inc.



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