



SPANO NV

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SPECIFICATIONS			
PRODUCT	HIDROFLAM	DATE	16/08/2011
CE-CLASS	P5	EUROPEAN STANDARD	EN 13986

DESCRIPTION

The works comprise delivery and installation from a specially treated, fire retardant and moisture resistant V313 high density chipboard with sanded, fine surface, well screw-resistant.

The chipboard resists high heat and fire (burn trough-time 30mm/hour or 0,5mm/min.), doesn't contribute to flame propagation and has a very moderate smoke development comparable with natural wood. The panel retains a long time its mechanical strength in the event of fire.

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.

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

Fire reaction: Class 1 according BS 476-7
B-s2, d0 according EN 13501-1
M1 according NFP 92.507

The chipboards have successfully passed the V313 ageing test: the test samples are submerged in water, then frozen and finally dried. This cycle is repeated 3 times and then the samples are tested for swelling and strength.

The chipboard has a P5 product-classification (ref. European Standard EN 312): load-bearing boards for use in humid conditions.

The board must be used in service class 2 of ENV 1995-1-1 (limitations in temperature and relative humidity of the surrounding air) and is suitable for use only in hazard classes 1 and 2 of 335-3.

The board is composed and built-up from wooden chips which are free of all undesired components: the chips are dried, sifted, mixed with an aminoplastglue type ureum-melamine-formol (UMF) and chemical additives, formed into shape and pressed. During the fabrication process the chips mix randomly so that the board becomes a homogeneous structure.

The board contains a three layer structure: both outer layers have the same thickness and contain mainly finer chips than the chips situated in the core layer.

The chipboards have a low formaldehyde-emission (Class E1) and are free of isocyanates, phenol.

For recognition a red colour is added. Possibly differences in colour between different thicknesses and packing are to be considered as normal.

The complete production process is ISO 9001:2000 certified.

**SPANO**

Wood Based Solutions

Spano is a division of SpanoGroup

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FINISHING

The boards can be finished with paper, melamine, laminate or veneer and can be further processed for usage such as separation walls, cladding walls, floors, ceilings, doors and furniture.

STANDARD DIMENSIONS**1305x3060mm**

Stocklist, other thicknesses and dimensions available on request.

PRODUCT CHARACTERISTICS

Property	Test-method	Unit	Average values				
Thickness	EN 324-1	mm	12	16	18	19	22
Density	EN 323	Kg/m ³	780	750	750	740	740
Moisture content	EN 322	%	6-10	6-10	6-10	6-10	6-10
5/95 Percentile values							
Bending strength	EN 310	N/mm ²	18,0	16,0	16,0	16,0	14,0
Internal bond	EN 319	N/mm ²	0,45	0,45	0,45	0,45	0,40
Modulus of elasticity	EN 310	N/mm ²	2550	2400	2400	2400	2150
Swelling/24h	EN 317	%	11	10	10	10	10
Internal bond V313	EN 321	N/mm ²	0,25	0,22	0,22	0,22	0,20
Swelling V313	EN 321	%	12	12	12	12	11

TOLERANCES

Property	Test method	Requirement
Tolerance nominal thickness sanded	EN 324-1	+/- 0,3mm
Tolerance nominal thickness unsanded	EN 324-1	-0,3mm + 1,7mm
Tolerance length and width	EN 324-1	+/- 5mm
Edge straightness tolerance	EN 324-2	1,5mm/m
Squareness tolerance	EN 324-2	2mm/m
Moisture content	EN 322	5% – 13%
Tolerance on mean density within a board	EN 323	+/- 10%
Formaldehyde release acc. EN 13986 - E1	EN 120	≤ 8mg/100g oven dry board