

## The Flame Retardants

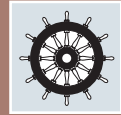
# THE FLAME RETARDANTS – LIGHTWEIGHT PRODUCTS FOR FIRE PREVENTION.



**NEW!**



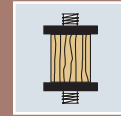
Fire classification to  
EN 13501-1



IMO marine  
approved



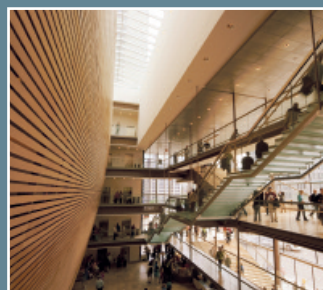
A light  
weight - sturdy  
characteristics



A pressure-  
resistant  
Balsa core

Moralt Balsaboard FlamSafe MDF

Moralt Balsaboard FlamSafe poplar plywood



## The flame-retardant, solid wood lightweight construction board.

Moralit Balsaboard FlamSafe is the flame-retardant alternative to Moralit Lightwood Balsa board. The combustible behaviour of this board is first-rate, with no dripping of burning embers, and with negligible smoke production. A density of just 245 to 465 kg/m<sup>3</sup> with extra surface stability, this material sets new standards. Available in large formats of up to 2.070 x 5.200 mm, thicknesses ranging from 16 to 38 mm.

This innovation by Moralit is an ideal substrate for the application of sliced veneers, HPL, paint, lacquer and high-gloss finishes. For particular use in wall and ceiling panelling, furniture and interior finishing in large halls, airports, public houses, boats and other properties with special public fire prevention requirements. The sandwich construction with an end grain balsa core and Poplar veneer or thin MDF facing can be processed using conventional techniques and tooling. Our certification details the fire ratings according to the appropriate standards.

## DELIVERY PROGRAMME

MORALT BALSABOARD FLAMSAFE									
Length x Width in mm	Thicknesses in mm								
Poplar plywood**	16	19	22	25	28	30	32	38	
1.220 x 2.440	○	○	■	■	■	■	■	■	
MDF-face	16	19	22	25	28	30	32	38	
2.070 x 5.200/2.600	○	○	■	○	■	■	■	○	

○ Just in time

■ Please ask for the delivery-time and minimum purchasing quantities

IF (internal) adhesive, Further thicknesses, dimensions available on request, Packaging: loose

## TOLERANCES

DIN 68705, part 2	
<b>6.1 Dimensions and Deviations</b>	
Thickness (sanded):	+ 0,2/- 0,6 mm
Length and width:	+/- 5 mm
Squareness:	2 mm/m
Edge straightness:	1,5 mm/m
Thickness tolerances:	t/60 (t = thickness in mm)

## TECHNICAL DATA

MORALT BALSABOARD FLAMSAFE				
	Thicknesses in mm			
Poplar plywood**	16	19	25	38
Density in kg/m <sup>3</sup>	350	325	290	245
E-module lengthwise in N/mm <sup>2</sup>	6.040	5.930	5.720	3.700
E-module crosswise in N/mm <sup>2</sup>	3.520	3.340	2.990	1.840
Bending strength lengthwise in N/mm <sup>2</sup>	41	36	25	24
Bending strength crosswise in N/mm <sup>2</sup>	30	25	13	11
MDF-face	16	19	25	38
Density in kg/m <sup>3</sup>	465	420	360	295
E-module in N/mm <sup>2</sup>	3.880	3.670	3.250	2.150
Bending strength in N/mm <sup>2</sup>	29	25	16	14

\*\* 3-ply poplar plywood face

Tested crosswise or lengthwise to the face layer

Elasto-mechanical properties are tested according to EN 310, bulk densities according to EN 323.

The values are subject to the naturally varying properties of wood. Further technical values available on request.

## Classification report according to EN 13501



## Classification

Fire behaviour	Smoke production	Flaming particles
B	s	d0

Class B, s1, d0 corresponds to the German national construction classification "schwerentflammbar" (low inflammability).

\* without a mineral wool substrate or free standing

Classification DIN 4102-1 and DIN EN 13501-1 can be alternatively used as proof of the fire behaviour of materials.

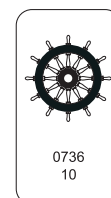
Extract from the building construction list. Addition 2009/1 App. 0.2 (2006/1)

## Moralit Tischlerplatten GmbH & Co. KG

Lenggrieser Straße 52  
83646 Bad Tölz  
Phone: +49 8041 508-0  
Fax: +49 8041 508-218  
werk.badtoelz@moralit-tischlerplatten.de

Moralit Stockist

## IMO marine approved



US Coast Guard:  
164.112/EC0736/118.232