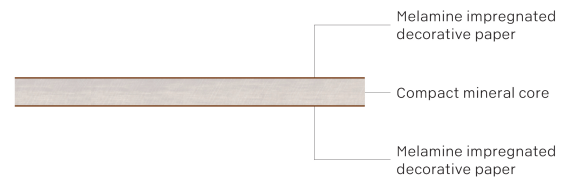


## Technical data

### Duropal flameprotect compact IMO

Fire protection panel with IMO classification 'Low Flame-Spread Surface Material' of primarily mineral constituents with uniform white-coloured core and decorative melamine resin surface on both sides.

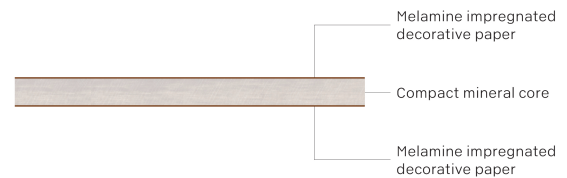


Specification								Unit	Standard	
Nominal thickness	3	4	5	6	7	8	9	mm		
Tolerance on thickness								± 0.75	mm	EN 438-2:2016
Tolerance on length								+ 10	mm	EN 438-2:2016
Tolerance on width								+ 10	mm	EN 438-2:2016
Surface defects								max. 1 <sup>1)</sup> max. 10 <sup>2)</sup>	mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	produced acc. to EN 438-4:2016
Edge defects								max. 3	mm	produced acc. to EN 438-4:2016
Straightness of edges								max. 1.5	mm/m	EN 438-2:2016
Squareness								max. 1.5	mm/m	EN 438-2:2016
Flatness	max. 8	max. 8	max. 8	max. 5	max. 5	max. 5	max. 5	mm/m	EN 438-2:2016	
Density								1,900	kg/m <sup>3</sup>	EN ISO 1183-1
Density tolerance								± 50	kg/m <sup>3</sup>	EN ISO 1183-1
Bending strength								min. 40	MPa	EN ISO 178
Flexural modulus								min. 6,000	MPa	EN ISO 178
Dimensional stability at elevated temperature (length)								max. 0.6	%	EN 438-2:2016
Dimensional stability at elevated temperature (width)								max. 0.6	%	EN 438-2:2016
Resistance to water vapour (smooth finishes)								min. 3	rating	EN 438-2:2016
Resistance to water vapour (textured finishes)								min. 3	rating	EN 438-2:2016
Resistance to immersion in boiling water (smooth finishes)								min. 3	rating	EN 438-2:2016
Resistance to immersion in boiling water (textured finishes)								min. 3	rating	EN 438-2:2016
Resistance to immersion in boiling water (edge)								min. 3	rating	EN 438-2:2016
Resistance to immersion in boiling water								max. 6 <sup>3)</sup> approx. 10 <sup>4)</sup>	%	EN 438-2:2016
Resistance to scratching (smooth finishes)								min. 2	rating	EN 438-2:2016
Resistance to scratching (textured finishes)								min. 3	rating	EN 438-2:2016
Resistance to shocks (large diameter ball) – impression diameter								max. 10	mm	EN 438-2:2016
Resistance to shocks (large diameter ball) - Fall height								min. 1,000	mm	EN 438-2:2016
Stain resistance (groups 1 & 2)								min. 5	rating	EN 438-2:2016
Stain resistance (group 3)								min. 4	rating	EN 438-2:2016
Light fastness (xenon arc)								4 to 5 grey scale rating		EN 438-2:2016
Fire behavior								non-combustible		
Reaction to fire (Euroclass)								A2-s1,d0		EN 13501-1

## Technical data

### Duropal flameprotect compact IMO

Fire protection panel with IMO classification 'Low Flame-Spread Surface Material' of primarily mineral constituents with uniform white-coloured core and decorative melamine resin surface on both sides.



Specification								Unit	Standard
Nominal thickness	3	4	5	6	7	8	9	mm	
Marine Approvals	MED (Low Flame-Spread Surface Material) USCG (Low Flame-Spread Surface Material) Transport Canada (Low Flame Spread Surface Linings)								
Formaldehyde emission class	E1								EN 717-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

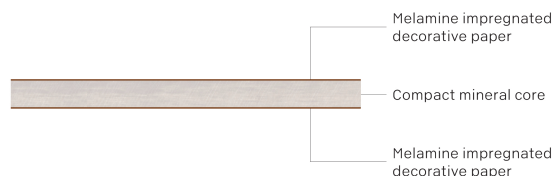
<sup>3)</sup> Thickness increase

<sup>4)</sup> Mass increase

## Technical data

### Duropal flameprotect compact IMO

Fire protection panel with IMO classification 'Low Flame-Spread Surface Material' of primarily mineral constituents with uniform white-coloured core and decorative melamine resin surface on both sides.

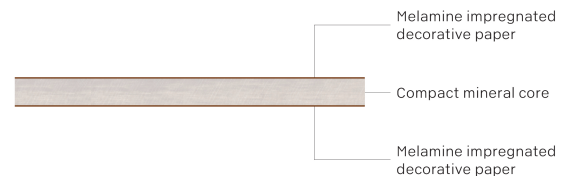


Specification							Unit	Standard
Nominal thickness	10	11	12	13	14	15	mm	
Tolerance on thickness			± 0.75				mm	EN 438-2:2016
Tolerance on length			+ 10				mm	EN 438-2:2016
Tolerance on width			+ 10				mm	EN 438-2:2016
Surface defects			max. 1 <sup>1)</sup> max. 10 <sup>2)</sup>				mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	produced acc. to EN 438-4:2016
Edge defects			max. 3				mm	produced acc. to EN 438-4:2016
Straightness of edges			max. 1.5				mm/m	EN 438-2:2016
Squareness			max. 1.5				mm/m	EN 438-2:2016
Flatness			max. 3				mm/m	EN 438-2:2016
Density			1,900				kg/m <sup>3</sup>	EN ISO 1183-1
Density tolerance			± 50				kg/m <sup>3</sup>	EN ISO 1183-1
Bending strength			min. 40				MPa	EN ISO 178
Flexural modulus			min. 6,000				MPa	EN ISO 178
Dimensional stability at elevated temperature (length)			max. 0.6				%	EN 438-2:2016
Dimensional stability at elevated temperature (width)			max. 0.6				%	EN 438-2:2016
Resistance to water vapour (smooth finishes)			min. 3				rating	EN 438-2:2016
Resistance to water vapour (textured finishes)			min. 3				rating	EN 438-2:2016
Resistance to immersion in boiling water (smooth finishes)			min. 3				rating	EN 438-2:2016
Resistance to immersion in boiling water (textured finishes)			min. 3				rating	EN 438-2:2016
Resistance to immersion in boiling water (edge)			min. 3				rating	EN 438-2:2016
Resistance to immersion in boiling water			max. 6 <sup>3)</sup> approx. 10 <sup>4)</sup>				%	EN 438-2:2016
Resistance to scratching (smooth finishes)			min. 2				rating	EN 438-2:2016
Resistance to scratching (textured finishes)			min. 3				rating	EN 438-2:2016
Resistance to shocks (large diameter ball) – impression diameter			max. 10				mm	EN 438-2:2016
Resistance to shocks (large diameter ball) - Fall height			min. 1,000				mm	EN 438-2:2016
Stain resistance (groups 1 & 2)			min. 5				rating	EN 438-2:2016
Stain resistance (group 3)			min. 4				rating	EN 438-2:2016
Light fastness (xenon arc)			4 to 5 grey scale rating					EN 438-2:2016
Fire behavior			non-combustible					
Reaction to fire (Euroclass)			A2-s1,d0					EN 13501-1

## Technical data

### Duropal flameprotect compact IMO

Fire protection panel with IMO classification 'Low Flame-Spread Surface Material' of primarily mineral constituents with uniform white-coloured core and decorative melamine resin surface on both sides.



Specification							Unit	Standard
Nominal thickness	10	11	12	13	14	15	mm	
Marine Approvals	MED (Low Flame-Spread Surface Material) USCG (Low Flame-Spread Surface Material) Transport Canada (Low Flame Spread Surface Linings)							
Formaldehyde emission class	E1							EN 717-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

<sup>3)</sup> Thickness increase

<sup>4)</sup> Mass increase

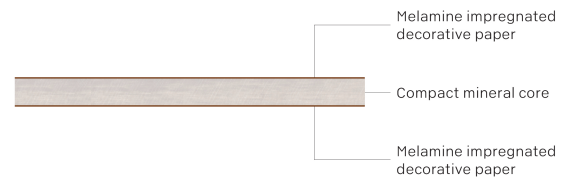
#### Additional information

Areas of application	<ul style="list-style-type: none"> <li>For universal use in preventive fire protection to reduce the fire spread. Particularly useful where high demands are made on the design and ease of care. The field of application covers decorative ship interior fitting through furniture, installations and wall coverings as well as in corridors and stairways. Use in wet areas and outdoors, as well as mechanical surface stress, is not recommended.</li> </ul>
Marine Approvals	<ul style="list-style-type: none"> <li>MED (Low Flame-Spread Surface Material)</li> <li>USCG (Low Flame-Spread Surface Material)</li> <li>Transport Canada (Low Flame Spread Surface Linings)</li> </ul>
Product safety	<ul style="list-style-type: none"> <li>This product is following the REACH regulation EC 1907/2006 an article. Following Article 7 it needs not to be registered.</li> <li>The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011.</li> <li>The decorative surface and the core consists of paper layers that are impregnated with thermosetting resins. The resins harden completely during the manufacturing process by heat and high pressure. They form a stable, resistant and non-reactive material.</li> </ul>
Special	<ul style="list-style-type: none"> <li>Wood, stone, creative and metallic decors are exclusively suitable for vertical applications or those which do not demand high stress on the surface.</li> <li>Due to the white core of the material, colour variations to other products cannot be avoided.</li> <li>For production-related reasons, there may be minor colour variations in the white material core.</li> <li>The coarser the structure and the lighter the decor, the greater the scratch resistance.</li> <li>The smoother the structure and the the darker the decor, the more sensitive it gets to stains.</li> <li>Depending on the decor and surface texture, slightly different surface visual impressions can result between format boards viewed from different angles. This is a result of the production methods and does not constitute a quality defect.</li> <li>Especially for large applications, we recommend paying attention to the colour and texture homogeneity of the boards and cut products used when further processing and installing and that the material is used taking into account the production direction.</li> </ul>

## Technical data

### Duropal flameprotect compact IMO

Fire protection panel with IMO classification 'Low Flame-Spread Surface Material' of primarily mineral constituents with uniform white-coloured core and decorative melamine resin surface on both sides.



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