

# DECLARATION OF PERFORMANCE

## Reference number DoP FIRAX® v.1.2

Product type	Intended use			AVCP
FIRAX® MDF-LA FR EN 622-5	Internal use as structural components in dry conditions			1
Essential characteristics	Performance			Reference
	6 to <12	≥12 to 19	>19 to 30	
<b>Characteristic Strength (Nmm<sup>2</sup>)</b>				<b>EN 12369-1: 2001</b>
- Bending $f_m$	21	21	21	
- Compression $f_c$	13,0	12,5	12,0	
- Tension $f_t$	13,0	12,5	12,0	
- Panel Shear $f_v$	6,5	6,5	6,5	
- Planar shear $f_r$	NPD	NPD	NPD	
<b>Characteristic Stiffness (MOE) (Nmm<sup>2</sup>)</b>				
- Tension $E_t$	2.900	2.700	2.000	
- Compression $E_c$	2.900	2.700	2.000	
- Bending $E_m$	3.700	3.000	2.900	
- Panel Shear $G_v$	800	800	800	
<b>Impact resistance</b>	NPD	NPD	NPD	
<b>Reaction to fire</b>	B-s2, d0	B-s1, d0	B-s1, d0	<b>1161-CPD-0190 &amp; 1221</b>
<b>Water vapour permeability <math>\mu</math></b>	wet 20 dry 12	wet 20 dry 12	wet 20 dry 12	<b>CWFT Table 9 Density &gt; 600 kg/m<sup>3</sup></b>
<b>Release of formaldehyde</b>	E1	E1	E1	<b>1161-CPD-0190 &amp; 1221</b>
<b>Release (content) of pentachlorophenol (PCP)</b>	≤5ppm	≤5ppm	≤5ppm	
<b>Airborne sound insulation (surface mass) (R)</b>	NPD	NPD	NPD	
<b>Sound absorption</b> Frequency range 250Hz to 500Hz ( $\alpha$ )	0,1	0,1	0,1	<b>CWFT Table 10 Density &gt; 400 kg/m<sup>3</sup></b>
<b>Sound absorption</b> Frequency range 1.000Hz to 2.000Hz ( $\alpha$ )	0,2	0,2	0,2	<b>CWFT Table 10 Density &gt; 400 kg/m<sup>3</sup></b>
<b>Thermal conductivity <math>\lambda</math></b>	0,1	0,1	0,1	<b>CWFT Table 10 Density &gt; 600, 800 &lt; kg/m<sup>3</sup></b>
<b>Internal bond (N/mm<sup>2</sup>)</b>	NPD			<b>EN 622-5: 2006</b>
<b>Swelling in thickness (%)</b>	NPD			
<b>Module of elasticity (N/mm<sup>2</sup>)</b>	NPD			
<b>Module of rupture (N/mm<sup>2</sup>)</b>	NPD			
<b>Mechanical durability</b>	NPD			
<b>Impact resistance</b>	NPD			
<b>Biological durability</b>	Class 1 according EN335			

**EN 13986: 2004**
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 Signed for and on behalf of the manufacturer by Jan GOEMINNE  
 COO Spanolux

Vielsalm, 01.07.2013

