

# DECLARATION OF PERFORMANCE

Reference number DoP FIRAX® v.2.0

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>EN 13986: 2004 + A1: 2015</b>	
<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: 2009</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				
<b>Reaction to fire</b>	Class 1 / A according ASTM E84 DIN 4102-B1			<b>EWCL5: ME 5077 abP Nr. P-BAY26-121321</b>	

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