

# DECLARATION OF PERFORMANCE

## Reference number DoP FIRAX® L v.1.3

Product type	Intended use				AVCP
FIRAX® L L-MDF FR EN 622-5	Internal use as structural components in dry conditions				1
Essential characteristics	Performance				Reference
	<b>10 to 12</b>	<b>&gt;12 to &lt;15</b>	<b>≥15 to 19</b>	<b>&gt;19 to 30</b>	
<b>Internal bond (N/mm<sup>2</sup>)</b>	0,45	0,45	0,45	0,45	<b>EN-622-5: 2009</b>
<b>Swelling in thickness (%)</b>	16	14	14	12	
<b>Module of elasticity (N/mm<sup>2</sup>)</b>	1.700	1.600	1.600	1.500	
<b>Module of rupture (N/mm<sup>2</sup>)</b>	20	18	18	15	
<b>Reaction to fire</b>	B-s2, d0	B-s2, d0	B-s1, d0	B-s1, d0	<b>1161-CPD-0189 &amp; 1223</b>
<b>Water vapour permeability μ</b>	wet 12 dry 20	wet 12 dry 20	wet 12 dry 20	wet 12 dry 20	<b>CWFT Table 9 Density &gt; 600 kg/m<sup>3</sup></b>
<b>Release of formaldehyde</b>	E1	E1	E1	E1	<b>1161-CPD-0189 &amp; 1223</b>
<b>Release (content) of pentachlorophenol (PCP)</b>	≤5ppm	≤5ppm	≤5ppm	≤5ppm	
<b>Airborne sound insulation (surface mass) (R)</b>	NPD	NPD	NPD	NPD	
<b>Sound absorption</b> Frequency range 250Hz to 500Hz ( <b>α</b> )	0,1	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 ( <b>α</b> )	0,2	0,2	0,2	0,2	<b>CWFT Table 10 Density &gt; 400 kg/m<sup>3</sup></b>
<b>Thermal conductivity λ W/(m,k)</b>	0,1	0,1	0,1	0,1	<b>CWFT Table 10 Density &gt; 600, 800 &lt; kg/m<sup>3</sup></b>
<b>Characteristic Strength (Nmm<sup>2</sup>)</b>					<b>EN 12369-1: 2001</b>
- <b>Bending</b> $f_m$	NPD				
- <b>Compression</b> $f_c$	NPD				
- <b>Tension</b> $f_t$	NPD				
- <b>Panel Shear</b> $f_v$	NPD				
- <b>Planar shear</b> $f_r$	NPD				
<b>Characteristic Stiffness (MOE) (Nmm<sup>2</sup>)</b>					
- <b>Tension</b> $E_t$	NPD				
- <b>Compression</b> $E_c$	NPD				
- <b>Bending</b> $E_m$	NPD				
- <b>Panel Shear</b> $G_v$	NPD				
<b>Impact resistance</b>	NPD				
<b>Mechanical durability</b>	NPD				
<b>Biological durability</b>	Class 1 according EN335				

**EN 13986: 2004 + A1: 2015**
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 Signed for and on behalf of the manufacturer by Jan GOEMINNE  
 Operations Director

Vielsalm, 30.11.2016

