

## DECLARATION OF PERFORMANCE

### Reference number DoP FIBRABEL® L v.1.4

Product type	Intended use				AVCP
FIBRABEL® L UL2-MDF EN 622-5	Internal use in dry conditions				4
Essential characteristics	Performance				Reference
	<b>12</b>	<b>&gt;12 to 19</b>	<b>&gt;19 to 30</b>	<b>&gt;30 to 40</b>	
<b>Internal bond (N/mm<sup>2</sup>)</b>	0,35	0,35	0,35	0,3	<b>EN 622-5: 2009</b>
<b>Swelling in thickness (%)</b>	18	14	13	12	
<b>Module of elasticity (N/mm<sup>2</sup>)</b>	1400	1300	1200	1100	
<b>Module of rupture (N/mm<sup>2</sup>)</b>	18	16	14	12	
<b>Reaction to fire</b>	D-s2, d0*	D-s2, d0*	D-s2, d0*	D-s2, d0*	<b>* test report 11198 NB 1173</b>
<b>Water vapour permeability <math>\mu</math></b>	wet 5 dry 10	wet 5 dry 10	wet 5 dry 10	wet 5 dry 10	<b>CWFT Table 9 Density &gt; 400 kg/m<sup>3</sup></b>
<b>Release of formaldehyde</b>	E1	E1	E1	E1	
<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><math>\alpha</math></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><math>\alpha</math></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 <math>\lambda</math> W/(m,k)</b>	0,07	0,07	0,07	0,07	<b>CWFT Table 10 Density &gt; 400, 600 &lt; kg/m<sup>3</sup></b>
<b>Characteristic Strength (Nmm<sup>2</sup>)</b>					<b>EN 12369-1: 2001</b>
- <b>Bending <math>f_m</math></b>	NPD				
- <b>Compression <math>f_c</math></b>	NPD				
- <b>Tension <math>f_t</math></b>	NPD				
- <b>Panel Shear <math>f_v</math></b>	NPD				
- <b>Planar shear <math>f_r</math></b>	NPD				
<b>Characteristic Stiffness (MOE) (Nmm<sup>2</sup>)</b>					
- <b>Tension <math>E_t</math></b>	NPD				
- <b>Compression <math>E_c</math></b>	NPD				
- <b>Bending <math>E_m</math></b>	NPD				
- <b>Panel Shear <math>G_v</math></b>	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

