

DECLARATION OF PERFORMANCE

Reference number DoP UMIDAX® v.1.2

Product type	Intended use			AVCP
UMIDAX® MDF-HLS EN 622-5	Internal use as structural components in dry conditions			2+
Essential characteristics	Performance			Reference
	6 to 12	>12 to 19	>19 to 30	
Characteristic Strength (Nmm²)				EN 12369-1: 2001
- Bending f_m	22	22	21	
- Compression f_c	18,0	16,5	16,0	
- Tension f_t	18,0	16,5	16,0	
- Panel Shear f_v	8,5	8,5	8,5	
- Planar shear f_r	NPD	NPD	NPD	
Characteristic Stiffness (MOE) (Nmm²)				
- Tension E_t	3.200	3.100	2.800	
- Compression E_c	2.800	2.700	2.400	
- Bending E_m	2.800	2.700	2.400	
- Panel Shear G_v	1.000	1.000	800	
Impact resistance	NPD	NPD	NPD	
Reaction to fire	D-s2, d0	D-s2, d0	D-s2, d0	CWFT Table 8 Density > 600 kg/m³
Water vapour permeability μ	wet 20 dry 12	wet 20 dry 12	wet 20 dry 12	CWFT Table 9 Density > 600 kg/m³
Release of formaldehyde	E1	E1	E1	WKI-295-6/1994
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	
Sound absorption Frequency range 250Hz to 500Hz (α)	0,1	0,1	0,1	CWFT Table 10 Density > 400 kg/m³
Sound absorption Frequency range 1.000Hz to 2.000Hz (α)	0,2	0,2	0,2	CWFT Table 10 Density > 400 kg/m³
Thermal conductivity λ	0,1	0,1	0,1	CWFT Table 10 Density > 600, 800 < kg/m³
Internal bond (N/mm²)	NPD			EN 622-5: 2006
Swelling in thickness (%)	NPD			
Module of elasticity (N/mm²)	NPD			
Module of rupture (N/mm²)	NPD			
Mechanical durability	NPD			
Impact resistance	NPD			
Biological durability	Class 2 according EN335			

EN 13986: 2004
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