



ACRE
BY MODERN·MILL

TECHNICAL SHEET

-  ATTRACTIVE AESTHETICS
-  VERSATILE STYLE
-  PROVEN PERFORMANCE
-  RESISTANCE TO THE ELEMENTS
-  LASTING DURABILITY
-  TRUE SUSTAINABILITY
-  LOW MAINTENANCE
-  US-BASED PRODUCTION
-  EASY INSTALLATION

CHARACTERISTICS	STANDARD	VALUE	UNIT
Density	ISO 1183	0.6 +/- 0.5	g/cm ²
Tensile strength	EN 789	≥9.0	N/mm ²
Tensile module	EN 789	≥700	N/mm ²
Bending strength	EN 789	≥10	N/mm ²
Flexural module	EN 789	≥800	N/mm ²
Shear module	EN 789	≥160	N/mm ²
Shear strength	EN 789	≥2.7	N/mm ²
Brinell hardness	EN 1534	≥20	N/mm ²
Screw extraction resistance - surface	EN 320	≥1200	N
Screw extraction resistance - narrow side	EN 320	≥1200	N
Nail extraction resistance - surface	EN 320	≥200	N
Nail extraction resistance - narrow side	EN 320	≥300	N
Head pull-through parameter	DIN EN 1383	≥25	N
Thermal linear expansion coefficient	ISO 11359-2	5.2 *10(-5)	m/m°C
Thermal linear expansion force	RES 101 SKZ	~1.500	N
Thermal conductivity (λ)	Annex to EN 12667	≥0.07	W/(mK)
Thermal capacity		1.02	J/(gK)
Diffusion resistance (water vapour permeability)	DIN EN ISO 12572	μ = 1000	
Airborne sound insulation	ISO-10140-2	32	Rw(dB)
Water absorption of unpolished panel / weight	EN 317	≤ 2.0% (24h) - Res	
Water absorption of unpolished panel / length	EN 317	≤ 0.1 % (24h) - Res	
Water absorption of unpolished panel / width	EN 317	≤ 0.1 % (24h) - Res	
Water absorption of unpolished panel / thickness	EN 317	≤ 0.1 % (24h) - Res	
Fire behaviour standard - UL V94	UL V94	V0	
Fire behaviour standard - EN 13501	DIN EN 13501	D,s3,d0	
Short-term welding factor - tensile test	DVS 2203 Part 2	0.68	
Short-term welding factor - flexural test	DVS 2203 Part 2	0.76	
Resistance against termites	EN 117	Attempted attack - no infestation	
Resistance against wood-discolouring fungi	EN 15534-1:2012 based on ISO 16869	Assessment number 0 - No growth / No discolouration	
VOC emission	AgBB [Committee for Health-Related Evaluation of Building Products] Test concept / DIN EN ISO 16000-3/6/9 i.a.	Passed	
VOC emission	French regulation no. 2011-321 /DEVL1104875A	Passed	
Durability with respect to wood-destroying fungi (basidiomycetes)	EN 15534-1:2014- 9.5.2 (based on ENV 12038)	Class 1	
Algae resistance	EN 15534.1:2014 - 8.5.6 (based on EN 15458)	Resistance against algae infestation	
Soft rot resistance	EN 15534-1:2014, Subsection 8.5.3 based on CEN/TS 15083-2	Highest durability class	