




TECHNICAL SHEET



ACRE
BY MODERN MILL

-  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	ASTM D-792	0.650 ± 0.050	g/cm ³
Tensile strength	EN 789	1305	PSI
Tensile module	EN 789	101526	PSI
Flexural strength	ASTM D-6109	3,377	PSI
Flexural module	ASTM D-6109	175,000	PSI
Hardness	ASTM D-2240	> 60	Shore D
Screw extraction resistance - surface	ASTM D-1761	359	LBF
Screw extraction resistance - narrow side	ASTM D-1761	701	LBF
Nail extraction resistance - surface	ASTM D-1761	171	LBF
Nail extraction resistance - narrow side	ASTM D-1761	421	LBF
Paint Adhesion	ASTM D-3359	5A	
Heat Deflection Temp	ASTM D-648	143.7	°F
Vicat Softening Temp	ASTM D-1525	154	°F
Thermal conductivity (λ)	Annex to EN 12667	≥0.07	W/(mK)
Coefficient of Linear Thermal Expansion	ASTM D-696	2.90 x 10 ⁻⁵	in/in/°F
Compressive Strength	ASTM D-1621	1,050	psi
Airborne sound insulation	ISO-10140-2	32	Rw(dB)
Water absorption	ASTM D-570	≤ 2.5 %	
Flame spread	ASTM E-84	25	
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	

*Data is for reference only. Consult with your Modern Mill Sales Representative for project specific applications.