

Test	Standard / Method	Value	Verdict
Physical properties			
Ma Deviation from straightness	NF EN 15534-1 + A1	In flatwise : 0,13 mm In edgewise : 0,28 mm	
Max Cupping		0,38 mm	
Linear mass		2,63 kg/lm	
Moisture content		0,30%	
Mechanical properties			
Falling mass impact resistance	NF EN 15534-1 + A1	No more than 1 breakage for 10 samples No crack	Pass
Bending strength	NF EN 15534-1 + A1 Annexe A NF EN 15534-5	27,3 Mpa - Span 660 mm	
Modulus of elasticity		3,3 Gpa - Span 660 mm	
Deflection at 250N		2,06 mm < 5 mm - Span 660 mm	Pass
Thermal properties			
Linear thermal expansion	NF EN 15534-1 + A1 Annexe A NF EN 15534-5	44,7 10-6 K-1	$\delta L \leq 50,0 \cdot 10^{-6}$ Pass
Heat reversion 100°C - 1 hour		0,06%	< individual 3% Pass
Durability			
UV Artificial weathering	NF EN 927-6	No blistering, cracking or peeling observed	
Colorimetric	NF EN 15534-1 + A1	$\Delta E = 2,59$	$\Delta E < 4$ Pass
Water absorption (28 days)	NF EN 15534-1 + A1 NF EN 15534-5	0,67%	< 8% Pass
Resistance to boiling water	NF EN 15534-1 + A1 NF EN 15534-4	$\Delta \text{min} = 0,7\%$	$\Delta \text{min} < 7\%$ - Pass
		$\Delta \text{max} = 0,72\%$	$\Delta \text{max} < 9\%$ - Pass
Bending at -18°C	NF EN 15534-1 + A1 Annexe A NF EN 15534-5	$\Delta \text{Bending strength} = 24,9\%$	$ \Delta \leq 50\%$ Pass
Bending at +60°C		$\Delta \text{Bending strength} = 41,8\%$	
Fire			
Euroclass	Test : EN ISO 11925-2 Classification : EN 13501-1 + A1	E	
Sismic behavior			
Stress on fasteners	NF EN 1998-1, Eurocode 8 Sismic zone : 4 Building category : IV Substructure : Wood Parallel to the facade	Traction : 3560 N	CSTB report DEIS/ FACET-19-606
		Shearing : 189 N	
Impact resistance			
Conservation of external performance after impact	NF P08-301 :1991	Satisfactory Classification : Q4	CSTB report n° FaCeT 19-0212-26082837/A
Wind			
Wind load resistance test, under the effect of a static air depression	CSTB book N°3517	Maximum depression : 10 385 Pa The capacity limit of the test bench has given this value and therefore limits the test	CSTB report n° FaCeT 19-0212-26082837/B
Thermal choc			
Dimensional stability test after a thermal choc		Absence of visible degradation, no separation of the boards, no degradation of the connections between the boards, no visible debris, no cracks or degradation around the screws	Rapport GINGER n°BEB3.J.2009-1