



Tongue & Groove Composite Cladding

Dimensions & Performance Data

		WIDTH	FRONT SIDE WIDTH	LENGTH	THICKNESS
		161.5mm	150mm	1850mm	20mm
NUM	ITEM	STANDARD	RESULT	REMARKS	APPLICATION
1	REACH	RoHS Directive 2011/65/EU and [EU] 2015/863, EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use	Meet Requirement	Test Harmful Contents	Content Test Report

2	FIRE PERFORMANCE	EN 13501	Bf1-S1	SGS	Fire Proofing Test
3	PENDULUM TEST	EN15534-1:2014	Pass	Slip Resistance Test	Safety Performance
4	MOISTURE RESISTANCE - BOILING TEST	EN15534-1:2014	Pass		Durability
5	RESISTANCE TO ARTIFICIAL WEATHERING	EN15534-1:2014	4.5 Grade of Colourfastness	2000h	Durability
6	FALLING MASS IMPACT RESISTANCE	EN15534-1:2014	Residual Indentation, No Crack Occured After	9mm	Mechanical Test
7	BENDING STRENGTH	EN15534-1:2014	Average Bending Strength: 71,41MPa	/	Mechanical Test
8	MODULUS OF ELASTICITY	EN15534-1:2014	Average Modulus of Elasticity: 1164MPa	/	Mechanical Test
9	COEFFICIENT OF LINEAR THERMAL EXPANSION	EN15534-1:2014	Average: $37,5 \cdot 10^{-6}$ K-1 Maximum:	Requirement: $\leq 50 \cdot 10^{-6}$ K-1	Material Performance

			41,2*10 ⁻⁶ K-1		
10	DENSITY	GB/T 24508-2009	1.3	Pass	Material Performance
11	SWELLING AND WATER ABSORPTION	EN 15534-1:2014	Thickness swelling: 1,15% Width swelling: 0,03% Length swelling: 0,07% Water absorption: 2,12%	Pass	Material Performance
12	DIMENSION CHANGING RATIO OF SWELLING AFTER IMMERSION IN WATER	GB/T 24508-2009	<0.1	Pass	Material Performance
13	FREE THAW RESISTANCE	GB/T 24508-2009	94%	Pass	Durability
14	DURABILITY OF THE PRODUCTS AGAINST AGEING AND MOISTURE	EN 15534-1:2014	ΔL^* : 4,78 Δa^* : 2,59 Δb^* : 0,23 ΔE : 5,45	Visible color change after 300 hours weathering exposure.	Durability

