

**PARKLEX 1000**

Exterior Grade Wood Composite Panel



Ayous Dark  
Brown

Ayous Light  
Brown

Ayous Natural

Boak Brown

Boak Natural

PRODUCT NAME: **PARKLEX 1000**

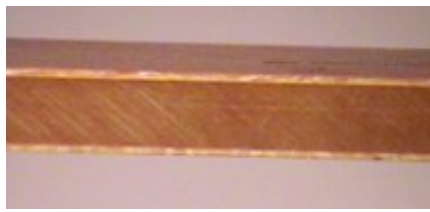
PRODUCT DESCRIPTION: **PARKLEX 1000** is a prefinished exterior grade wood composite panel. This HIGH QUALITY panel system has been treated with durable THERMO-HARDENED resins and has a bakelite core. The panel is dimensionally stable and is suitable for exterior applications. Minimum maintenance is required; clean with water and non-abrasive cleaner.

PRODUCT SPECIFICATION: Laminated wood panel, double-face, outerply Boak or Ayous, wood coated with phenolic resins; inner core paper fibers treated with thermo-hardened resins.

SPECIAL CHARACTERISTICS: **PARKLEX 1000** is highly resistant to varying climatic conditions, including freeze/thaw, salt spray, dry climate and UV ray exposure. It is non-toxic and resists mold, mildew, fungus and is impervious to termite.

**Parklex 1000+** In 2003, improvements to the Parklex 1000 were put into production. The improvements increase the age resistance and dimensional stability of the panel. An additional layer of clear film, developed by the scientists at Parklex, greatly increase the UV resistance and color stability of the face veneer. Additionally, the surface gloss of the finish is retained, showing no sign of change during artificial ageing testing. The improvements also add increased protection against humidity absorption, increasing the dimensional stability of the panel.

WOOD VENEER: BNP - Boak natural, BBP - Boak brown, ANP - Ayous natural, ABP lt. - Ayous light brown, ABP - Ayous dark brown; smooth surface (standard) or grooved surface (special order).



**PANEL DIMENSIONS:** 1220mm (48") x 2440mm (96") x 10mm (3/8" approx., standard thickness); 6mm, 8mm, 13mm and 15mm (special order).

**DIMENSIONAL TOLERANCES:** Length  $\pm 2$ mm, Width  $\pm 2$ mm, Thickness  $\pm 0.55$ mm (10mm thick panel).

**WEIGHT:** 13.5 kg/m<sup>2</sup> or 2.8 lb/ft<sup>2</sup> (10mm thick panel); 1220mm x 2440mm x 10mm panel weighs approximately 90 pounds.

**SURFACE BURNING CHARACTERISTICS:** Report on surface burning characteristics determined by ASTM E-84 (twenty-five foot tunnel furnace test method), meets Class B (II) - 75 or under flame spread, with a flame spread index of 40 and smoke developed index of 35. It is possible to manufacture the product to achieve a Class A (Class I) rating - with a flame spread index of 5 and smoke developed index of 10. Please contact us for additional information.

**THERMAL PROPERTIES:**

Parameter Description	Metric	English
Thermal Conductivity $k$	0.18 W/m·K	0.104 (Btu/h)/ft·F
Thermal Resistance $R$ (10mm)	0.0556 K·m <sup>2</sup> /W	0.315 h·ft <sup>2</sup> ·F/Btu
Equivalent to R-9.61 (thermal resistance of 1 ft of Parklex insulation, given in h·ft <sup>2</sup> ·F/Btu).		

**TECHNICAL DATA:**

**ASTM Test Results**

Characteristics	Standards and test methods	Values
Density (10mm)	ASTM D 2395 Method A	1.51 g/cc
Moisture Content	ASTM D 4442 Method A	2.1%
Water Absorption (24 h/23°C)	ASTM D 1037 Method B	0.34% by mass 0.56% by volume
Thickness Swelling		0.59%
Flexural Properties Modulus of Elasticity	ASTM D 1037	

veneer parallel to long dimension	dry	19.0 GPa (2,756,000 psi)
	soaked	18.0 GPa (2,611,000 psi)
veneer perpendicular to long dim.	dry	9.0 GPa (1,305,000 psi)
	soaked	8.7 GPa (1,261,000 psi)
Bending Strength (MOR)		
parallel to long direction	dry	193 MPa (28,000 psi)
	soaked	200 MPa (29,000 psi)
perpendicular to long direction	dry	93 MPa (13,500 psi)
	soaked	108 MPa (15,700 psi)
Bond Durability	APA PS-1 6.1.5	
maximum load	reference	2.58 kN (580 lb-f)
	vacuum/pressure soaked	3.47 kN (780 lb-f)
	boiled (2 cycles)	2.68 kN (600 lb-f)
Surface Burning Characteristics	ASTM E-84	Class B (II) / Class A (I)

Click on the following link for [Interpretation of ASTM Test Data on Parklex 1000](#).

ASTM Testing Performed at AEWC Advanced Engineered Wood Composites Center, University of Maine; ASTM E-84 Testing (Surface Burning) performed at Hardwood Plywood & Veneer Association Laboratory, Reston Virginia.

## European Test Results

Characteristics	Standards and test methods	Values
Visible Density	UNE 53.020 (NF T 51-005)	1.4 gr/cc ( $\geq 1400 \text{ daN/m}^3 \pm 50$ )
Water Absorption	24 h/23°C	<1.5% in mass
Moisture Content	---	<1%
Formaldehyde Content	UNE-EN 312-1:1.997	Class 1 (<1 mg/100g) (9 ppm - parts per million)
Bending Strength		
lengthways	ISO 178	190 MPa
crosswise		95 MPa
Stretch Modulus		
lengthways	ISO 178	$\geq 18,000 \text{ MPa}$
crosswise		$\geq 7,800 \text{ MPa}$
Traction Shearing	NF EN 314-1	
	1) 2x4 h in boiling water	ShearingR N/mm <sup>2</sup> /80% adhesion
	2) 72 h in boiling water	ShearingR N/mm <sup>2</sup> /70% adhesion
Compression Strength	ISO 604	220 MPa
External Glueing Quality	EN 311 72 h boiling water	surface tearing <4MPa

Toughness	UNE 56.534/77	16.8
Resistance to Abrasion	UNE 23-727/90 (EN 438)	1,200/13,000 cycles (7,000)
Resistance to Stains	EN 438	5
Resistance to Cigarette Burns	EN 438	2
Fire Reaction	UNE 23-727/90	Class M2/M1
Fume Toxicity/Opacity	---	Class F1

Limited Warranty Available.