

# Quality Redefined





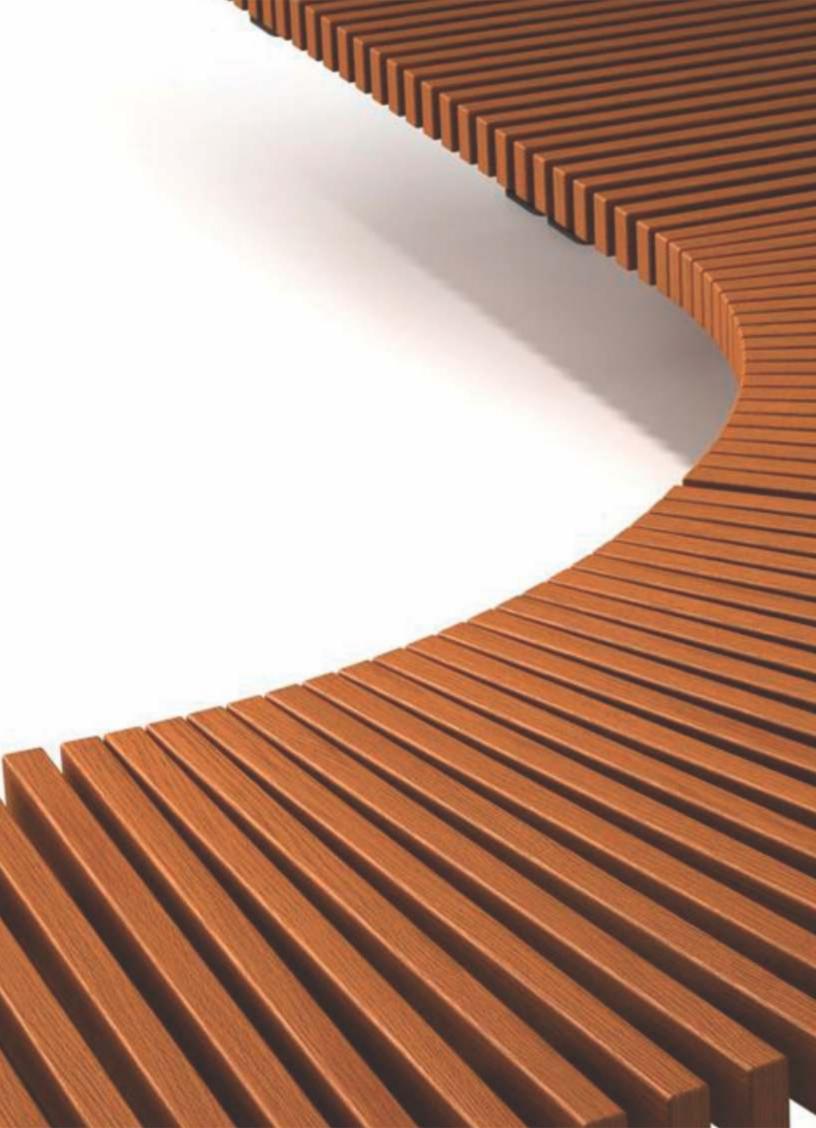






We believe in











Veneers from high quality logs are mechanically dried and they undergo stress relieving process, which are assembled in such a way to form a balanced construction. High quality fortified synthetic resins are used for gluing the veneers. Glue line is poisoned by special formulations of chemicals to make Kangaro Plywood safe against borers. It is hot pressed under proper temperature and more than 16 Kg/cm² specific pressure. Conditioning is done after pressing, followed by preservative treatment.

#### Applications

Partition and paneling, ceilings in public rooms and corridors, floor underlayment, computer rooms, furniture, bus bodies, railway coaches, milk booths, sign boards, insert in panel doors, storage racks.

Tech	nical Specification			
S.No.	Test	I.S.I. Requirement		Test Results
1.	Moisture Content	5 - 15%		7.5 %
2.	Glue Shear Strength in Dry Condition	a) Individual b) Average Min.	1100 Newton 1350 Newton	1400 Newton 1590 Newton
3.	Glue Shear Strength in Wet Condition	<ul><li>a) Individual</li><li>b) Average Min.</li></ul>	800 Newton 1000 Newton	1080 Newton 1360 Newton
4.	Glue Shear Strength in Mycological Test	a) Individual b) Average Min.	800 Newton 1000 Newton	1090 Newton 1350 Newton
5.	Tensile Strength a. Parallel to grain direction b. Right angle to grain direction c. Sum of both directions	42.0N/mm² 25.0N/mm² 84.5N/mm²		645 KN./m² 395 KN./m² 1040 KN./m²
6.	MOR N/mm² Parallel to grain Perpendicular to grain	Avg./Min. 50 / 45 30 / 27		60 / 55 40 / 35
7.	MOE N/mm² Parallel to grain Perpendicular to grain	Avg./Min 7500 / 6700 4000 / 3600		8000 / 7500 4500 / 4000







These are made out of excellent quality of Plantation Timbers. Logs are quarter sawn into Planks using SDR method, which are chemically treated and well seasoned before converting into battens in a multiple ripsaw. Battens are sandwiched between glued mechanically dried veneers and are pressed in hot press under accurate temperature and pressure. Quarter, sawing of logs and proper seasoning of planks make it dimensionally stable and treatment of planks, poisoning of glue line and preservative treatment of finished block board make viva durable and safe against borers.

#### **Applications**

Cabinets, Almirahs and other furniture, Door Partitions, Shelves and other interior applications; Roofing, Fencing, and other external applications.

Technical Specification		
Test	Requirements of Is1659 Interior /Extirior	Test Result
Moisture Contents	5-15%	8%
Change caused by humidity	Not more than <u>+</u> 1mm	Less than 0.6mm
Adhesion of Ply	Minimum Pass Standard	Excellent
Water Resistance	3 Hours at 60°C ± 2°C	Good
Resistance to Microorganism (Mycological Test)	One Cycle of 21 days	No sign of speparation at the edges
MOE		
Avg. N/mm2	4000/5000	5200/6010N./mm <sup>2</sup>
Min Ind. N/mm2	3400/4200	4500/5000 N/mm <sup>2</sup>
MOR		
Avg. N/mm2	40/50	50/62 N/mm <sup>2</sup>
Min Ind. N/mm2	34/42	42/48 N/mm <sup>2</sup>









Kangaro offers a high quality Film Faced Shuttering Plywood. It is a multi functional product, which can be used in construction industry for buildings, bridges, heavy industry and structures etc. for use on walls, slabs, columns and beams etc. It is manufactured by selecting quality veneers impregnated with modified RPF resin for longer life and better performance in all applications.

#### Applications

Factories and buildings, sewer construction, construction of swimming pool, bridge construction, exterior and general shuttering work, beams and every construction and foundation job.

Tech	nical Specification			
S.No.	Test	I.S.I. Requirement		Test Results
1.	Moisture Content	5 - 15%		8 %
2.	Glue Shear Strength tin dry condition	a) Individual b) Average min.	1100 Newton 1350 Newton	1470 Newton 1710 Newton
3.	Glue Shear Strength in wet condition Adhesion of Plies (Knife test)	a) Individual B) Average min.	800 Newton 1000 Newton	1370 Newton 1560 Newton
4.	Glue Shear Strength in mycological test Adhesion of Plies (Knife test)	a) Individual b) Average Min	800 Newton 1000 Newton	1350 Newton 1590 Newton
5.	Tensile Strength a. Parallel to grain direction b. Right angle to grain direction c. Sum of both directions	Min. 32.5 N/mm² Min. 22.5 N/mm² Min. 60.0 N/mm²		70.5 N/mm² 63.0 N/mm² 133.5 N/cm²
6.	MOE Parallel to grain Perpendicular to grain	8000 N/mm² 4000 N/mm²		9563 N/mm² 7275 N/mm²





These are made from High Density Farm Timbers, which are chemically treated and well seasoned. Battens are edge glued to make these doors durable and dimensionally stable. Special formulations of chemicals are used to poison the glue line against borers and fungus. External preservative treatment is given to make these doors perfectly resistant to all the Micro Organisms. Kangaro Flush doors are available in all sizes and thickness.

#### Applications

Door shutters in homes and offices.

### **Special Features:**

## Lifetime warranty

TRIPLE LAYER CORE PINE WOOD FRAME HARD WOOD FILLER

Technical Specification		
Test	Requirement of IS 2202	Test Result
Dimensions & Squareness	Length +0/mm	+3mm
	Width +0/mm	+2mm
	Thickness +/-1mm	+.6mm
	Squareness : not more than	.5mm
	1mm per 500mm length	
General Flatness	6mm	2.0 mm
Local Planeness	0.5 mm	0.2 mm
Impact Indentation	0.2 mm	0.10 mm
Flexure Test	Max. Deflection 5mm	Max. Deflection 3mm
Edge Loading Tests	Residual deflection 0.5 mm	Residual deflection .25mm
	Lateral buckling 2mm	1mm
Shock Resistant Tests	Should withstand 5 impacts	Can withstand 10 impacts
Misuse Tests	No Permanent Deformation of the	No Permanent Deformatio
	Fixing	
End Immersion Tests	No Delamination	No Delamination
Knife/Glue Adhesion Test	Pass Standard	Excellent
Screw Withdrawl	1000N	1800N
Slamming Tests	No Visible Damage After 50 Drops	No Damage
Buckling Test	Pass Standard	Excellent







Kangaro well chosen veneers, display a kind of expression that has a strong aesthetic appeal. Anti borer, termite resistance and other characteristic are of course present in every inch of Kangaro decorative plywood.

Kangaro Decorative Plywoods are processed in such a way that offers an excellent surface for gloss and matt polishing to suit the applications like paneling and furnishing. Kangaro products add an exclusive touch to the interiors. Manufactured from selected Gurjan core and fine teak veneers, bonded with phenol formaldehyde resin, Kangaro decorative confirms to IS: 1328 standards that gives a complete feeling of getting the dream come true designs.

#### **Applications**

Household Furniture specially for living room and paneling.

Test	Requirements of IS : 1328	Test Result
lest	Requirements of 15 : 1328	lest nesult
Moisture Content	5-15%	6-10%
Water Resistance Test	Three Cycle 3 hour at 60+/-2°C In water and drying at 65+/-2°C for 8 hours	No Delamination
Torn grain, Dead knots dote, discolouration and sap wood	Free from such defect	Pass Standard
Open Split, Checks, open Joints	Not more than 150mm In length and 0.5mm in width rectified with Veneer insert bonded with Synthetic resin adhesive	Pass Standard