

## ADVANTAGES OF BOILING WATER PROOF FR HDF BOARD

- ✓ BOILING WATER PROOF BOARD
- ✓ FIRE RETARDANT
- ✓ HIGH LOAD BEARING
- ✓ TOUGHENED SURFACE
- ✓ ENVIRONMENT FRIENDLY
- ✓ TERMITE & BORER PROOF
- ✓ HIGH IMPACT RESISTANCE
- ✓ HIGH DIMENSION STABILITY
- ✓ FUNGUS RESISTANCE
- ✓ HIGH DENSITY

FOR PERFECT CUTTING & BETTER OUTPUT RECOMMENDED SAW BLADE FOR TESA BOILO BWP FR - HDF BOARD

The ideal cutting equipment shall be a Panel Saw with a primary Cutting blade & a secondary scoring blade or **Branded Hand-Held Circular Saw**, The Cutting motor shall drive between **5000 RPM – 7000 RPM**



TCT  
SAW BLADE



Vol1 - May 2022



[www.actiontesa.com](http://www.actiontesa.com)

Customer Care Service: 011-41120018, 41120098, cce2@actiontesa.com, cce3@actiontesa.com

### Balaji Action Buildwell Pvt. Ltd.

Regd. Office : G-11, Udhog Nagar, Peeragarhi, New Rohtak Road, North West Delhi, Delhi - 110 041 Ph.: 011-41120000, 41120020

Plant : Plot No. C34, C34 (A) to (D), C3, C6 (A) to (C), Eldeco Sidcul Industrial Park & Plot No.5, IIE, Sitarganj (US Nagar), Uttarakhand PIN - 262405, India



**BWP**  
HDF BOARD



**TESA** action

**Boilo**®

**BOILING WATER PROOF HDF BOARD**

*Har Challenge Ke Liye Taiyar*

**FIRE RETARDANT**

TESTED AS PER STANDARD OF  
FIRE RETARDANT PLYWOOD (IS 5509 : 2000)

FLAME RETARDANT 3 TIMES MORE AGAINST PASSING  
PARAMETER OF IS 5509 : 2000 - FIRE RETARDANT PLYWOOD



TERMITE  
PROOF



BORER  
PROOF



FIRE  
RETARDANT



FUNGAL  
RESISTANCE



HIGHER  
DENSITY



TOUGHER  
THAN PLYWOOD



Green Building  
Council  
Member



NOTE : ANTI VIRO BOARD, AVAILABLE IN  
PRELAMINATED BOILO BOARD

**BOILING WATER PROOF FR HDF BOARD**

# About Boilo

## BOILING WATER PROOF FR HDF BOARD



The wait is over, for the 1st Time in Panel Industry across the globe Action TESA has introduced a unique product BOILO- BWP FR HDF BOARD "BOILING WATER PROOF FR HDF BOARD". Due to inherent properties of BWP, HDF & Fire Retardant this product is highly suitable in interior applications having wet conditions, high load bearing surfaces, high traffic & high temperature areas.

**Available in - 8mm, 12mm, 16mm & 18mm (Plain & Prelam) Size: 8 x 4ft (8 x 6 ft available in 12mm only)**

**KEY APPLICATION AREA :** • Restroom Toilet Cubicle • Thermal Insulation • Load Bearing Area – Decking / Warehouse Shelves/ Staircases • Container Floor • Truck Floor • Bus Body Floor • Bathroom Partition • Fire Retardant Application • Flooring • Wall Paneling • Furniture • Fixtures • Modular Kitchen • Wardrobes • Moist Area Furniture • Stage Flooring



### FIRE RETARDANT PROPERTIES BOILO-BWP FR HDF v/s FR PLYWOOD

Sl. No.	Test Description	UOM	Test Standard	Fire Retardant Plywood - IS-5509 Requirement	BOILO BWP HDF Results
	<b>Thickness</b>	mm		<b>19mm</b>	<b>18mm</b>
1.	Flammability	Minutes	IS 1734- Part 3	30	100
2.	Flame Penetration	Minutes	IS 1734- Part 3	45	51
3.	Rate Of Burning	Minutes	IS 1734- Part 3	20	39

### Test Report Boilo 12mm as per IS 15061:2002

Horizontal Burning	Specified Values $\leq$ 100	Actual Test Result - 0 not ignite (very good result)
Vertical Burning	Specified Values $\leq$ 100	Actual Test Result - 0 not ignite (very good result)
Melting Behavior	No Flaming or Melting	Remark - Confirm Passing

### Test Standards: ASTM E84-2020 (Tested Spectro Analytical Lab Ltd.)

Index	Class 1 or A Requirement	TESA Boilo Result
Flame Spread Index	0 - 25 (lower is better)	6.37
Smoke Development	450 Maximum (lower is better)	77.57
Remarks	Passing	Passing Class 1 or A

# BOILO-BWP FR HDF (FEATURES AND BENEFITS)

Feature	Benefits
Very High Density	<ul style="list-style-type: none"> <li>High strength</li> <li>Multi Dimensional routing and carving possible</li> </ul>
Very Smooth Surface	<ul style="list-style-type: none"> <li>Best suited for Painting and polishing</li> </ul>
Very High surface density of 1180 kg/ m <sup>3</sup>	<ul style="list-style-type: none"> <li>High impact resistance</li> <li>High Resistance to Dents</li> <li>High paint coverage due to less surface absorption</li> <li>Lower glue consumption for Post-Lamination</li> <li>Low flammability – ( FR properties)</li> </ul>
Uniform Calibrated Thickness	Bubble free Pre-Lamination & Post-lamination
Homogenous structure- across the grain and along the grain similar properties	No core gaps or core overlaps
Good grey color	Can be polished- used as coloured HDF
Available in 8'X6' (12mm)	Reduction in cutting wastage
High rigidity (6 times higher than requirement of Structural plywood IS:10701)	Very High Load bearing strength
Fire retardant properties to confirm requirement of IS:5509	Enhance the safety of you & your surrounding
Very high bonding strength even after boiling water test	<ul style="list-style-type: none"> <li>Long Lasting product</li> <li>High Internal bonding and Excellent screw holding/ withdrawal strength even after boiling water proof test</li> </ul>
High Dimensional Stability	<ul style="list-style-type: none"> <li>Much Lower water absorption</li> <li>Lesser thickness swelling</li> <li>Much lower linear expansion</li> </ul>
Termite proof (1 Year testing Certificate from IPRITI)	<ul style="list-style-type: none"> <li>Long Lasting product</li> </ul>

### TECHNICAL SPECIFICATION - BOILO-BWP FR HDF BOARD

Sl. No.	Test Description	UOM	Test Standard	Marine Plywood requirement	BOILO -BWP HDF
	<b>Thickness</b>	mm		<b>19mm</b>	<b>18mm</b>
1	Density	Kg/m <sup>3</sup>	IS 2380 - Part 3	650-775	1000 $\pm$ 5%
2	Surface density*	Kg/m <sup>3</sup>	IS 2380 - Part 3	750	1150
3	Average I.B. (As Per IS-2380 - Part 5, 1977 )	N/mm <sup>2</sup>	IS 2380 - Part 5	0.57	2.0
4	Minimum I.B.*	N/mm <sup>2</sup>	IS 2380 - Part 5		1.50
5	Screw Withdrawal Face*	N	IS 2380 - Part 14	2800-4250	4000
6	Screw Withdrawal Edge*	N	IS 2380 - Part 14	2100-2900	2600
7	Water Absorption 2 Hrs* (weight)	%	IS 2380 - Part 16	2.95	2
	Water Absorption 24 Hrs* (weight)	%	IS 2380 - Part 16	13	6
8	Surface Swelling 2 Hrs* (Thickness)	%	IS 2380 - Part 17	0.36	1
	Thickness swelling 24 Hrs* (Thickness)	%	IS 2380 - Part 17	4 to 7	4
	Linear Expansion Length*	%	IS 2380 - Part 17	0.17 to 0.37	0.20
	Linear Expansion Width*	%	IS 2380 - Part 17	0.21 to 0.36	0.20
9	Termite proof (1 year testing Certificate from IPRITI)		IS- 4833 (1993)	Not tested	Pass
10	Tensile Strength	N/mm <sup>2</sup>	IS 2380 - Part 6		min 42