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
	Thickness	mm		**19mm**	**18mm**
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 ≤ 100	Actual Test Result - 0 not ignite (very good result)
Vertical Burning	Specified Values ≤ 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







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





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action TESA®
PANELS | FLOORING | DOORS
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Balaji Action Buildwell Pvt. Ltd.
Corporate Office: G-11, Udyog Nagar, Main Roht
Regd. Office : G-11, Udhyog 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), Uttrakhand PIN - 262405, India

MADE IN INDIA

BWP
HDF BOARD

BOILO 21 YEARS WARRANTY
BWP HDF BOARD

action TESA®

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

ANTIVIRO™

KILLS 99.99% VIRUS, BACTERIA & OTHER MICROBES

NOTE : ANTIVIRO 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 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

RESTROOM TOILET CUBICLE

BOILO - Boiling water Proof FR HDF with High Density (compactness) and added advantage of Fire Retardant and High Dimensional Stability makes best replacement of compact cubicles.





CONTAINER FLOOR

BOILO- Boiling water Proof FR HDF with built in High Load Bearing, High Impact Resistance & Toughened Surface is prime requisite for sturdy flooring.



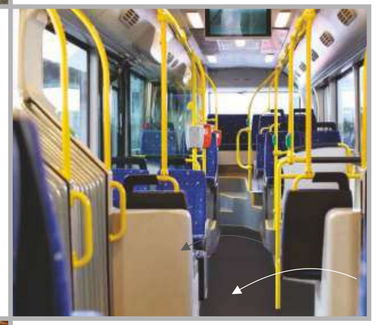


MOIST AREA FURNITURE

BOILO- Boiling Water Proof FR HDF complimented with Fungus Resistant, Termite & Borer Proof property and High Dimensional Stability makes best suited in moist and hot area.

BUS BODY FLOOR

BOILO- Boiling water Proof FR HDF having Fire Retardant High Load Bearing, High Impact Resistance & High Dimensional Stability besides giving sturdy floor add-ons to the safety aspect as well.





Load Bearing Area –

Decking / Warehouse Shelves/Staircases

BOILO- Boiling water Proof FR HDF having High Load Bearing & High Dimensional Stability can be used in shelves, lockers and trolly for stacking heavy equipment of objects.



BOILO-BWP FR HDF (FEATURES AND BENEFITS)

Feature	Benefits
Very High Density	○ High strength ○ Multi Dimensional routing and carving possible
Very Smooth Surface	○ Best suited for Painting and polishing
Very High surface density of 1180 kg/ m^3 Uniform Calibrated Thickness	○ High impact resistance ○ High Resistance to Dents ○ High paint coverage due to less surface absorption ○ Lower glue consumption for Post-Lamination ○ Low flammability – (FR properties) 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	○ Long Lasting product ○ High Internal bonding and Excellent screw holding/ withdrawal strength even after boiling water proof test
High Dimensional Stability	○ Much Lower water absorption ○ Lesser thickness swelling ○ Much lower linear expansion
Termite proof (1 Year testing Certificate from IPRITI)	○ Long Lasting product

TECHNICAL SPECIFICATION - BOILO-BWP FR HDF BOARD

Sl. No.	Test Description	UOM	Test Standard	Marine Plywood requirement	BOILO -BWP HDF
	Thickness	mm		**19mm**	**18mm**
1.	Average Density*	Kg/m^3	IS 2380 - Part 3	750	1020
2.	Density Range*	Kg/m^3	IS 2380 - Part 3	650-775	1011-1056
3.	Surface density*	Kg/m^3	IS 2380 - Part 3	750	1180
4.	Average I.B. (As Per IS-12406)*	N/mm^2	IS 2380 - Part 5	0.57	2.91
5.	Minimum I.B*	N/mm^2	IS 2380 - Part 5		1.95
6.	Screw Withdrawal Face*	N	IS 2380 ¯ Part 14	2800-4250	5100
7.	Screw Withdrawal Edge*	N	IS 2380 ¯ Part 14	2100-2900	2900
8.	Screw Withdrawal Edge (72 Hours Boiling)	N	IS 2380 - Part 14		1850
9.	Water Absorption 2 Hrs*	%	IS 2380 - Part 16	2.95	0.44
10.	Water Absorption 24 Hrs*	%	IS 2380 - Part 16	13	2.80
11.	Surface Swelling 2 Hrs*	%	IS 2380 - Part 17	0.36	0.35
12.	Thickness swelling 24 Hrs*	%	IS 2380 - Part 17	4 to 7	3.28
13.	Linear Expansion Length*	%	IS 2380 - Part 17	0.17 to 0.37	0.12
14.	Linear Expansion Width*	%	IS 2380 - Part 17	0.21 to 0.36	0.11
15.	Termite proof (1 year testing Certificate from IPRITI)		IS- 4833 (1993)	Not tested	Pass