

# Fiberock<sup>®</sup>

Aqua Tough<sup>™</sup> Abuse Resistant Panels

**USG BORAL**  
INNOVATION INSPIRED BY YOU.<sup>™</sup>



## Fiberock<sup>®</sup> Performance Interior Lining Systems

**A unique Aqua Tough<sup>™</sup> & Abuse Resistant Product for interior linings with unique 3 in 1 advantages**

**Superior Strength**

**High Performance**

**Multiple Finishing Options**

(Hard Laminates; Wood Veneer; Tiles; Wall Paper; Paints)



# Product Features

**Aqua-Tough™:** FIBEROCK® AT AR (Aqua-Tough & Abuse Resistant) panels open up a whole new possibility of substrate performance.

Fiberock's innovative composition provides effective water, mould and indentation resistance that no other drywall solution can match.

- **Water Resistant:** FIBEROCK® AT AR is water resistant and suitable for use in wet areas, showers and tub surroundings. When tested as per BS 1230 for water absorption, Fiberock achieves less than 5% water absorption. With no paper face to delaminate, tear or scratch, Fiberock maintains its integrity even when wet.
- **Mold Resistant:** FIBEROCK® AT AR earns the highest score, 10, when tested as per ASTM D3273 (Standard Test Method for Resistance to Growth of Mould on the Surface of Interior Coatings in an Environmental Chamber).

**Abuse Resistant:** FIBEROCK® AT AR is engineered to provide increased resistance to abrasion, indentation and penetration for interior walls and ceilings. They resist denting, breaking, and puncturing even in high-traffic areas.

## Strength :

- **Flexural strength:** When tested as per ASTM C473 the Flexural Strength for a 12.7mm thick FIBEROCK® AT AR panel scores 490 Newton (either directions). When tested as per BS 5234, the FIBEROCK® AT AR panel assemblies qualify for Severe Duty ratings.
- **Load carrying Capacity:** FIBEROCK® AT AR has a tough core. 13mm thick FIBEROCK® AT AR linings can take loads of up to 15kg per screw at the screw head, (16 mm can take 16kg and 9.5 mm board can take 10kg).
- **Nail Head Pull resistance** is 535 Newton's when tested as per ASTM C474.

**Acoustics:** FIBEROCK® AT AR is very effective at reducing sound transmission, as it combines high mass with very high stiffness. FIBEROCK® AT AR systems provides Sound insulation from 39 Rw to up to 56 Rw.

**Fire Resistance:** The absence of a paper surface combined with the mineral core results in surface fire resistance properties, apart from being an effective room to room fire barrier. It meets the ASTM standards when tested as per E84 for Surface Burning Characteristics.

# Installation



**Easy to Cut & Fix :** FIBEROCK® AT AR Panels can be cut to size by score and snap process using a paper cutting knife.

It has factory formed tapers to long edges.

If desired, additional tapers can be formed on off-cuts and sheet ends on site.

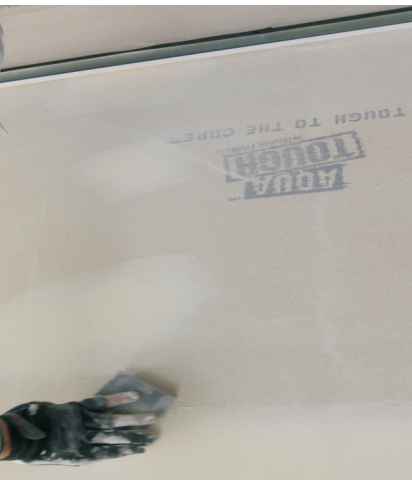
Fixing can be easily carried out on Aluminum framework, GI frame or timber studs.

**Repair & Maintenance:** Repair of Fiberock interior linings is an easy task.

Fiberock interior linings have no surface paper to scuff, tear or delaminate.

In Fiberock linings the risk of damage is minimal, unless the impact is extreme; the failure region still maintains its integrity behind the plane of the wall. The repair operation is economical to carry out.

FIBEROCK® AT AR does not shed particles.



# Finishing

FIBEROCK® eliminates virtually all surface finish compatibility constraints. It is the ideal substrate for the following finishing options-

**Painting:** For paint finishes FIBEROCK® AT AR provides stronger and flatter joints creating the necessary foundation for a quality finish. The pre-sealed surface provides even suction for the paint resulting in even coverage and smooth finish.

**Lamination:** Most hard & soft laminates can be bonded to FIBEROCK® as there is no risk of delamination. Also for wallpaper and vinyl laminates the pre-sealed surface enhances removal capability when renovating.

**Tiling:** For tile finishes the pre-sealed surface gives excellent adhesive bonding and the high dimensional stability reduces any risk of grout or tile popping or cracking.

FIBEROCK® AT AR panels are finished with a factory baked clear sealer. The surface is very smooth & ideal for finishing systems.

# Performance

<b>Abuse Resistance</b>	<b>Fire Resistance</b>	<b>Water Resistance</b>	<b>Aesthetics</b>	<b>Mold Resistance</b>	<b>Sustainability Recycled Content</b>	

	UL Classification	Aqua-Tough Formulation	Finishes Like Dry wall	Score 10 when tested per ASTM D3273	Post-Industrial	Post-Consumer
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## Interior walls and ceilings

### Wet and Dry Areas

**FIBEROCK® AT** 6.6mm and 9.5mm Interior panels are designed for wall and ceiling assemblies in high-traffic areas where resistance to moisture, mold and fire is especially important. These panels can be tiled, painted and used in interior wet applications.



Very Good	FRX-G	YES	YES	10	85	10
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### High-Traffic Areas

**FIBEROCK® AT AR** 12.7mm and 15.9mm In addition to above these Panels are engineer to resist denting, breaking, and puncturing even in high-traffic areas reducing maintenance and life-cycle costs.



Very Good	FRX-G	YES	YES	10	85	10
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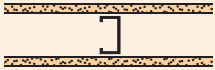
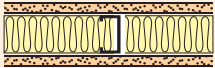
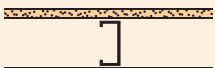




# Product Data

Property	Test Method	UoM	6.6 mm	9.5 mm	12.7 mm	15.9 mm
Weight		Kg/sqm	7.3	9.3	11.7	15.1
Density		Kg/cum	1060	960	930	960
K Value	ASTM C518	W/mk	0.14	0.14	0.14	0.14
Surface water absorption	ASTM C473	grms	1.6	1.6	1.6	1.6
Water absorption	ASTM C473	%	10*	10*	5	5
Linear Variation with Moisture Change	ASTM D1037	%	0.02	0.02	0.03	0.03
Coefficient of thermal expansion	ASTM E831		14.4	14.4	14.4	14.4
Mold Resistance	ASTM D3273		10	10	10	10
Flame Spread	ASTM E84		5	5	5	5
Smoke Development	ASTM E84		0	0	0	0
Compressive strength	Internal	Kg/sqm	88	70	35	35
Flexural strength (min)	ASTM C473	N	175	310	490	690
Nail Head Pull-Through Resistance (min)	ASTM C474	N	310	400	535	645
Alkalinity		pH value	7	7	7	7

Note: Compliance with Standards Meets ASTM C1278  
 Edge Configuration: Long Edges tapered, ends cut square for FIBEROCK® AT 12.7 & 15.9 mm as well as FIBEROCK® AT 9.5 mm. Square edges for FIBEROCK® AT 6.6 mm  
 Size - 6' x 4' (1830 mm x 1220 mm) and 8' x 4' (2440 mm x 1220 mm)  
 \*Manufacturing specs



# Fiberock® AT AR Performance Systems

Sr No	Construction Detail	Description	Overall Thickness (mm)	Sound Insulation	Fire Resistance (minutes)	Weight Kg/m <sup>2</sup>	Maximum Height (meters)
1.		13mm thick Fiberock® AT AR screw fix on both sides of 64 mm studs (0.55mm BMT)	92	39	30	27	3.2
2.		13mm thick Fiberock® AT AR screw fix on both sides of 64 mm studs (0.55mm BMT) having 63 mm mineral wool in cavity	92	44	60	28	3.2
3.		13mm thick Fiberock® AT AR screw fix on both sides of 92mm studs (0.55mm BMT)	120	41	30	28	4.5
4.		Two layers of 13mm thick Fiberock® AT AR screw fix on both sides of 64mm studs (0.55mm BMT) having 63mm mineral wool	118	54	90	51	4.1
5.		Two layers of 13mm thick Fiberock® AT AR screw fix on both sides of 92mm studs (0.55mm BMT) having 63mm mineral wool.	146	56	90	53	5.1
6.		16mm thick Fiberock® AT AR screw fix on both sides of 92mm studs (0.55mm BMT)	126	42	60	35	4.7
7.		2x16mm thick Fiberock® AT AR screw fix on both sides of 92mm studs (0.55mm BMT)	158	51	120	64	3.7

Note :  
Sound Insulation (STC) & Fire Resistance (HRS) are estimated values only.  
USG Boral can offer solutions to suit project requirements. For more details you may please contact your local representative.

## Outstanding Recycled Content

In the manufacturing of FIBEROCK® panels, 95% of their raw materials come from recycled external waste streams:

85% is post industrial gypsum, a waste product obtained from an electricity generator. No open cast or underground mining of gypsum is needed for the manufacture of Fiberock linings.

10% is recycled cellulose, meaning no trees are harvested for the manufacture of FIBEROCK® linings.



**Notice**  
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use.

Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

**Note**  
All products described here may not be available in all geographic markets. Consult your local sales office or representative for information.

**Safety First!**  
Follow good safety and industrial hygiene practices during handling and installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.