

EnduraFlood ENDU-BOARD

WATERPROOF WALL PANEL SYSTEM

The 100% waterproof, removable wall panel alternative to gypsum drywall for flood-prone interiors

- Impervious to liquid water; will not swell or delaminate
- ASTM E84 Class A fire rating (FSI = 15, SDI = 450) with NFPA 286 full-room burn pass
- Removable and reusable; panels snap into proprietary UNI-TRIM and BASE-KLIP system
- Polymer composite with no gypsum, formaldehyde, or adhesive layers
- Designed for FEMA floodproofing compliance when installed per manufacturer's instructions

DESCRIPTION

EnduraFlood ENDU-BOARD panels are inorganic polymer composite wall panels engineered as a waterproof alternative to traditional gypsum drywall in flood-prone interiors. The panels feature a 100% non-gypsum material that is impervious to liquid water and inhibits microbial growth due to its non-organic composition. ENDU-BOARD panels are 48 in. wide and available in three heights (21 in., 33 in., and 48 in.), installing to heights of 24 in., 37 in., and 51 in. with EnduraFlood's proprietary UNI-TRIM and BASE-KLIP mounting system. Panels engage the UNI-TRIM channel at the top and snap onto BASE-KLIP brackets at the bottom, allowing tool-free removal and reinstallation after a flood event. The neutral white finish is paintable with standard acrylic or latex paints.

INTENDED FOR

- Residential and commercial interiors where waterproof wall surfaces are required below the flood line
- Flood-prone basements, coastal homes, hurricane regions, and FEMA compliance retrofit projects
- New construction or repair / remodel where traditional drywall is vulnerable to water damage
- Applications up to 51 in. above finished floor using EnduraFlood trim components

LIMITATIONS

1. Not fire-resistance rated. Do not use it for fire walls, fire barriers, or fire partitions.
2. Interior walls only, up to flood level. Not intended for exterior use, or for structural support.
3. Cut panels on a stable surface. Wear a dust mask and eye protection during cutting. Safety Data Sheet available on request.

INSTALLATION

ENDU-BOARD panels install with the EnduraFlood proprietary trim system. Refer to individual component submittals (UNI-TRIM, BASE-KLIP) for detailed fastener and trim specifications.

ENDU-BOARD Panel Installation Sequence

Step	Instruction
1	Prepare substrate: Remove existing baseboard/trim. Cut bottom of existing gypsum drywall to desired floodable height (panel height + 3 in. clearance). Ensure studs are sound and flush.
2	Install horizontal EnduraFlood trim UNI-TRIM by stapling it to wooden studs. Alternative trim and fasteners shall be used for metal studs, %" drywall or certain decorative panel types.
3	Cut ENDU-BOARD panels: Score with utility knife or cut with saw to required dimensions (drywall opening height minus 3 in.). Wear eye and respiratory protection.
4	Insert panel into UNI-TRIM: Tilt panel and engage top edge into UNI-TRIM channel. Leave approximately 1/8 in. gap at top for future removal.
5	Temporarily support ENDU-BOARD. Mount BASE-KLIPs underneath ENDU-BOARD and fasten BASE-KLIP to stud.
6	Install UNI-BASE by fastening it to studs using provided screws.

Required Tools: Utility knife, circular saw, tape measure, level, power drill, stapler, 3/8 in. drill bit, 5/8 in. or 3/4 in. countersink bit, caulk gun.

FINISHING AND DECORATING

ENDU-BOARD panels accept standard acrylic and latex interior paints. All surfaces must be clean and dry before painting. No specialized primer is required, though a standard interior latex primer may be applied for enhanced color uniformity. Follow paint manufacturer's directions for surface preparation and application.

TEST DATA

Property	Test Method	Requirement	ENDU-BOARD Result
Water Absorption	Visual / Immersion	Non-absorbent	Impervious to liquid water
Surface Burning	ASTM E84 (Intertek)	Class A: FSI $\leq$ 25	FSI = 15, SDI = 450
Full-Room Burn	NFPA 286	No flashover	Pass — no flashover
Surface Flammability	DIN EN ISO 11925-2	Pass	Pass
Reaction to Fire	EN 13501-1:2019	Class E	Class E
VOC Content	Per manufacturer	Low	Low

COMPLIANCE

- IBC: Class A flame spread per IBC requirements
- IRC: Meets R302 flame/smoke limits
- FEMA Floodproofing: Complies when installed per manufacturer's instructions
- ASTM E84 (Intertek): Class A — FSI = 15, SDI = 450
- NFPA 286: Pass — No flashover, no ceiling/extremity spread

Note: Consult local building codes for additional requirements. ENDU-BOARD is not rated for fire walls, fire barriers, or fire-resistive assemblies.

PRODUCT DATA

Property	Specification
Material	Inorganic polymer composite (100% non-gypsum)
Panel Width	48 in. (1219 mm)
Panel Heights	21 in., 33 in., or 48 in.
Install Heights	24 in., 36 in., or 51 in. (with EnduraFlood trims)
Finish	Neutral white; paintable with standard acrylic / latex paints
Field Modification	Can be cut with utility knife or saw
Edges	Square-cut; designed for UNI-TRIM channel engagement
Packaging	Panels shipped individually in master carton

Part Numbers:

Part No.	Description
EB4821	48 in. × 21 in. ENDU-BOARD panel
EB4833	48 in. × 33 in. ENDU-BOARD panel
EB4848	48 in. × 48 in. ENDU-BOARD panel

WARRANTY

Item	Detail
Warranty Period	1-year limited warranty
Coverage	Defects in material and workmanship
Exclusions	Misuse, improper installation, mold growth, acts of God
Conditions	Must follow EnduraFlood installation instructions to maintain coverage

PRODUCT INFORMATION

Website	www.enduraflood.com
Order Channels	Direct via EnduraFlood website
Lead Time	Typically in-stock; ships from U.S. warehouse
Spec Section	09 77 00

CAUTION

Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or saw to minimize dust levels. Wear eye, skin and respiratory protection when cutting. If eye contact with dust occurs, flush thoroughly with water for 15 minutes. If irritation persists, consult a physician. Safety Data Sheet (SDS) available on request. Should not be heated over 140 degrees Fahrenheit.

SUBMITTAL APPROVALS

Project Name	
Contractor	
Date	

NOTICE: All information herein is based on EnduraFlood published resources and third-party test reports. Specifications are subject to manufacturer's ongoing improvements. This submittal does not constitute an endorsement or guarantee beyond the manufacturer's stated warranty. We shall not be liable for incidental or 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 within thirty (30) days from the date it was or reasonably should have been discovered.

Manufactured by

EnduraFlood Systems LLC

www.enduraflood.com