# EnduraFlood ENDU-KOARD

## WATERPROOF WALL PANEL SYSTEM

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

- 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-KOARD panels are inorganic polymer composite wall panels engineered as a waterproof,decorative alternative to traditional gypsum drywall in flood-prone interiors. ENDU-KOARD shares the same core composition and performance characteristics as the ENDU-BOARD panel, with the addition of factory-machined 1⁄4"-wide kerfed grooves spaced at 6" intervals across the panel face, producing a classic wainscoting-style appearance. 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-KOARD panels are 48 in. wide and available in two heights (33 in., and 48 in.), installing to heights of 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-KOARD panels install with the EnduraFlood proprietary trim system. Refer to individual component submittals (UNI-TRIM, BASE-KLIP) for detailed fastener and trim specifications.

**ENDU-KOARD 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, ⅝" drywall or certain decorative panel types. |
| **3** | Cut ENDU-KOARD 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-KOARD. Mount BASE-KLIPs underneath ENDU-KOARD 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-KOARD 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-KOARD Result |
|---|---|---|---|
| Water Absorption | Visual / Immersion | Non-absorbent | Impervious to liquid water |
| Surface Burning | ASTM E84 (Intertek) | Class A: FSI ≤ 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-KOARD 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) |
| **Surface Detail** | 1⁄4"-wide kerfed grooves at 6" spacing (wainscoting style) |
| **Panel Heights** | 33 in. or 48 in. |
| **Install Heights** | 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 |
|---|---|
| **EK4833** | 48 in. × 33 in. ENDU-KOARD panel |
| **EK4848** | 48 in. × 48 in. ENDU-KOARD 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