

# GOLD BOND® BRAND eXP® INTERIOR EXTREME® IR GYPSUM PANEL

## MANUFACTURER

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09 29 00/NGC BuyLine: 1100

## DESCRIPTION

Gold Bond® BRAND eXP® Interior Extreme® IR Gypsum Panel is an impact, moisture and mold resistant gypsum panel designed for interior applications requiring increased resistance to incidental moisture and wall penetrations.

eXP Interior Extreme IR is manufactured with an enhanced abuse, moisture and mold resistant gypsum core and facer. The facer is composed of a coated fiberglass mat which provides superior abrasion and moisture resistant capabilities. A fiberglass mesh is embedded into the core, close to the back of the board to provide additional impact/penetration resistance. It is produced in a 5/8" Fire-Shield® Type X core. eXP Interior Extreme IR is easily identified by the back facer in National Gypsum's original PURPLE® color.

Tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm® BRAND Ready Mix or ProForm® BRAND Quick Set Setting Compounds.

## BASIC USES

eXP Interior Extreme IR is designed for interior use in wall assemblies in areas where surface durability, impact/penetration and moisture/mold/mildew resistance are major concerns.

Can be used for pre-rock applications before the building envelope is completely enclosed which may shorten construction cycles.

## ADVANTAGES

- Provides greater resistance to surface abuse and impact penetration over standard gypsum board.
- Will withstand up to 12 months of interior exposure to the elements, subject to the terms, conditions and exclusions of National Gypsum's Limited Warranties.
- Resists the growth of mold per ASTM D 3273 with a score of 10, the best possible score.
- GREENGUARD listed as microbial-resistant when tested per ASTM D 6329.
- Coated fiberglass mat on face and back for easy handling.
- eXP Interior Extreme IR is an approved component in specific UL fire rated designs.
- Less than 5% water absorption per ASTM C 473.
- eXP Interior Extreme IR is easily scored and snapped for quick installation.

## GREENGUARD CERTIFIED

Gold Bond® BRAND eXP® Interior Extreme® IR has achieved GREENGUARD Gold Certification.



## MOLD AND MILDEW RESISTANCE

eXP Interior Extreme IR was designed to provide extra protection against mold and mildew compared to standard gypsum board products. When tested by an independent laboratory, eXP Interior Extreme IR products received the highest possible rating on ASTM D 3273.

No material can be considered "mold-proof," nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, eXP Interior Extreme IR products can provide increased mold

resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

## LIMITATIONS

- eXP Interior Extreme IR is intended for interior use only.
- Panels are non structural and are not a nailing base.
- Do not finish joints until building is properly closed in and conditioned.
- Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum panels are not recommended where they will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- eXP Interior Extreme IR should not be used in areas subject to constant and/or excessive moisture and high humidity such as gang showers, saunas, steam rooms or swimming pool enclosures.

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_ Date \_\_\_\_\_

Submittal Approvals: (Stamps or Signatures)

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- eXP Interior Extreme IR should not be used as a backer board directly behind tile in tub and shower areas.
- When installing eXP Interior Extreme IR in horizontal applications, such as ceilings, it should not be installed in pre-rock conditions.
- To maximize abuse (or impact) resistance and eliminate potential screw spin-out, a minimum true 20 gauge (.0312 design thickness) steel stud is required. If less than 20 gauge studs are used, it is recommended to use “High/Low” screws and a 2500 rpm screw gun.
- Panels must be stored off the ground and under cover. Sufficient risers must be used to assure support for the entire length of the gypsum panel to prevent sagging.
- Care should be taken to ensure that the panels are kept dry prior to, and during installation. Adequate care should be taken while transporting, storing, applying and maintaining panels. For additional information, refer to the Gypsum Association publication, “Guidelines for Prevention of Mold Growth on Gypsum Board” (GA-238-03), which is available at [www.gypsum.org](http://www.gypsum.org).

## COMPOSITION & MATERIALS

eXP Interior Extreme IR is manufactured with a moisture and mold resistant core and facers. The facer is composed of a coated fiberglass mat which provides superior mold and moisture resistance while allowing for easy handling.

A fiberglass mesh is embedded into the core close to the back of the panel. Contains no asbestos.

## ACCESSORIES

- Fasteners: drywall screws, nails and/or adhesives
- ProForm Fiberglass Mesh Tape
- ProForm Joint Tape
- Cornerbead, casing beads
- ProForm Ready Mix or ProForm Quick Set/Quick Set Lite Setting Compound
- E-Z Strip control joints or .093 zinc control joints

## TECHNICAL DATA

PHYSICAL PROPERTIES	5/8" eXP Interior Extreme IR Fire-Shield - Type X
Thickness, nominal	5/8"
Width, standard	4'
Length, standard	8' - 12'
Weight, lbs./sq.ft., nominal	2.8
Permeance (perms)	>10
Linear Expansion	$6.25 \times 10^{-6}$
Coefficiency of Thermal Expansion	$9.26 \times 10^{-6}$
Flexural Strength, parallel, lbf	≥100
Flexural Strength, perpendicular, lbf	≥140
“R” Value (C 518)	0.50
Noncombustible per ASTM E 136	Yes
Nail Pull Resistance minimum, lbf	90
Hardness core, edges and ends	≥15
Water Absorption (% of weight) (ASTM C 473)	≤5
Surface Water Absorption (grams)	≤1.6
Surface Burning Characteristics Flame Spread/Smoke Developed (E 84)	0/0
Humidified Deflection	1/8"
Bending Radius	8'
Resists Growth of Mold	Yes
Edges	Tapered
Surface Abrasion Resistance (per ASTM C 1629)	Level 3
Indentation Resistance (per ASTM C 1629)	Level 1
Soft Body Impact Resistance (per ASTM C 1629)	Level 3
Hard Body Impact Resistance (per ASTM C 1629)	Level 2

## APPLICABLE STANDARDS AND REFERENCES

ASTM C 1658

Appropriate sections of ASTM C 1396

ASTM D 3273

ASTM C 840\*

ASTM D 6329

ASTM C 1629

Gypsum Association GA-216\*

Gypsum Association GA-214

Gypsum Association GA-801

National Gypsum Company, *Gypsum Construction Guide*

\*Good building practices should always be followed to minimize adverse moisture exposure. When conditions require installation of board before the building is fully enclosed, the use of eXP Interior Extreme IR is the best possible solution.

## FIRE RESISTANCE RATINGS

Fire resistance ratings represent the result of tests on assemblies made up of materials authorized by National Gypsum in specific configurations. When selecting construction designs to meet certain fire resistance requirements, caution must be used to ensure that each component of the assembly is the one specified in the test. Further, precaution should be taken that assembly procedures are in accordance with those of the tested assembly. (For copies of specific tests, call 1-800-NATIONAL.)

## UL CORE DESIGNATION

5/8" EXP Interior Extreme IR:  
FSW-6

## INSTALLATION

### RECOMMENDATIONS

Installation of eXP Interior Extreme IR should be consistent with methods described in Applicable Standards with one exception—for best results, cutting and scoring of eXP Interior Extreme IR should be from the back side of the board.

Listed impact/penetration ratings apply to walls constructed with eXP Interior Extreme IR applied with long edges parallel to and centered over minimum 20 gauge framing members spaced a maximum of 16" o.c.

Install eXP Interior Extreme IR in accordance with GA-216 “Application and Finishing of Gypsum Panel Products” and ASTM C 840 “Standard Specification for Application and Finishing of Gypsum Board for Non-Fire Rated Construction.” In addition, the following recommendations should be followed:

- Fasteners shall be driven just below the surface, avoiding damage to the core and/or facer.

- Unlike paper-faced gypsum board, eXP Interior Extreme IR, can be installed in pre-rock applications, yet water sensitive materials should not be installed adjacent to eXP Interior Extreme IR until the building is dried in.
- For optimal results when transitioning from eXP Interior Extreme IR to paper-faced gypsum board, panels should be butted at corners or above drop ceilings.

## FINISHING

The finishing of eXP Interior Extreme IR panels should be specified and performed in accordance with Gypsum Association Publication GA-214 *“Recommended Levels of Gypsum Board Finish.”* Joints between eXP Interior Extreme IR panels may be finished with either paper tape and ready mix joint compound or fiberglass mesh tape and setting compound such as ProForm <sup>BRAND</sup> Interior Finishing Products. In areas to receive final decoration, skim coating of the entire surface is recommended.

In critical lighting conditions or when using gloss, semi-gloss or enamel paints, finish panels to a Level 5 finish as outlined in GA-214.

## DECORATION

For best painting results, all surfaces, including joint compound, should be clean and dust-free. To improve fastener and joint concealment, a coat of a quality drywall primer is recommended to equalize the porosities between surface facer and joint compound.

The level of finish selection and paint required to provide the specified or desired finished characteristics is the responsibility of the architect or contractor.

A gypsum panel that is to have a wallcovering applied should be prepared and primed as described for painting.

*Safety:* The following standard work practices are recommended: Installers should wear long pants and a long-sleeved loose fitting shirt. Protective gloves and special eye protection (goggles or safety glasses with side shield) should be used. A dust mask should be worn when sanding and additional breathing protection may be needed in extremely dusty conditions. Do not use a power saw to cut this product.

*Caution:* Because this product contains fiberglass, dust and glass fibers may be released during normal handling, which could result in eye or skin irritation or cause difficulty in breathing. Whenever possible, avoid contact with the skin and eyes and avoid breathing dust or fibers that may be released during installation. Consult the SDS for this product, available at [purplechoice.info](http://purplechoice.info) before use.

