

## TECHNICAL DATA

### MANUFACTURER

*G-P Gypsum Corporation  
133 Peachtree Street, N.E.  
Atlanta, GA 30303*

*Technical 1 (800) 225-6119*

## GYPROC® FIREGUARD® GYPSUM BOARD

### DESCRIPTION

GyProc® Fireguard® Gypsum Board has a noncombustible, dimensionally stable gypsum core. The core has been reinforced with the addition of glass fibers, increasing its strength and its resistance to the passage of heat. **The surfacings on both faces and on the long edges are 100% recycled paper.** The front face paper is an ivory color; the back face paper is gray. The short edges are square cut, smooth finished with no paper facing.

### PRIMARY USES

GyProc Fireguard Gypsum Board is a wall or ceiling covering material for use in building construction. It is designed for direct mechanical attachment to wood or metal framing for use in building assemblies with a designated fire-resistive rating.

A specially formulated gypsum core which includes glass fibers enables G-P GyProc Fireguard® to remain intact during a fire, helping to protect framing members and preventing or delaying the spread of fire. With joints covered, Fireguard gypsum board will resist passage of smoke.

GyProc Fireguard is manufactured with a paper surfacing designed to receive joint treatment, paint, wall covering, or textured coatings.

### LIMITATIONS

GyProc Fireguard is a non-structural product and should not be used as a nailing base or to support heavy wall mounted objects. It is intended for interior applications; it must be kept dry and clean and not used where exposure to moisture is extreme or continuous. It should not be exposed to temperatures exceeding 125°F for extended periods of time.

### APPLICABLE STANDARDS

ASTM C 36, Type X  
Federal Specification, SS-L-30D, Type III, Grade X, CSA A82.27

### BUILDING CODE CONFORMITY

GyProc Fireguard meets the criteria mandated by the three model code bodies: BOCA, ICBO, SBCCI. Conformity is attained by Codes reference to gypsum board construction and requirements for fire-resistive construction using Type X Gypsum Board in numerous rated assemblies. GyProc Fireguard Type X use is validated by testing in accordance with ASTM E 119.

### SIZES AND EDGES

Thickness (nominal): 5/8"  
Width (nominal): 48'  
Length (standard): 8'-16'

Edges: Tapered, square, tapered with round edges.

#### **SUPPLEMENTAL MATERIALS**

Surface and corner beads and trim, expansion joints, tape, joint compound.

## **TECHNICAL DATA**

#### **SURFACE BURNING CHARACTERISTICS**

Flame spread 15 and smoke developed 0 when tested according to ASTM E 84. The core is noncombustible when tested in accordance with ASTM E 136. It is classified by Underwriters Laboratories.

#### **FIRE-RESISTANCE RATINGS**

GyProc Fireguard meets the criteria for type X, special fire-resistant, as defined in ASTM C 36. GyProc Fireguard is classified for fire-resistance by Underwriters Laboratories.

#### **SOUND CONTROL**

GyProc Fireguard can achieve designated Sound Transmission Class (STC) values when used in properly designed constructions.

Sound rated assemblies require sealing at top, bottom, intersections and other locations where sound leaks may develop.

## **INSTALLATION**

#### **APPLICATION STANDARDS**

GyProc Fireguard Gypsum Board may be applied according to the Gypsum Association Publication GA-216 or ASTM C 840 for non-fire rated construction. Application regarding board orientation, fastener type and spacing must be consistent with the tested construction details. These details are published in the Gypsum Association Fire Resistance Design Manual GA-600, UL/ULC Fire Resistance Directory, and Warnock Hersey Listings Book.

#### **METHODS**

Appropriate methods of installation are based on the desired fire-resistance rating or specified STC value required. These ratings and values require that details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publications GA-201 and GA 216 will facilitate optimum performance through preferred construction practices.

For non-rated construction, installation methods for single- or multi-layer construction involving attachment using mechanical fasteners, adhesive, or adhesive with supplemental fasteners are numerous and varied. Refer to Gypsum Association publications for application and installation details.

The installation method selected must be planned carefully to minimize the number of end joints. Gypsum board can be cut to the necessary size by scoring the face paper with a sharp knife, then

snapping away from the cut face. The back paper is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

Apply board tight to framing, abutting edges and end. Start with ceilings aligning board perpendicular to framing followed by application to walls. Fasten from center of boards out with slight dimpling of fasteners without breaking face paper. Following proper joint treatment, gypsum board surfaces should be primed/sealed prior to decoration.

### **SAFETY**

During installation involving cutting, scoring, and breaking, safety glasses are recommended. If the work environment is dusty, a NIOSH approved respirator should be worn. Do not use a power saw.

### **HANDLING PRECAUTIONS**

Stack gypsum board on a flat, level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling also is outlined in Gypsum Association GA-216 and GA-801.

Take care to avoid impact, undue flexing and subsequent damage to board edges, ends, and corners. Avoid scuffing the face to be finished.

### **MATERIAL SAFETY DATA SHEET**

Material Safety Data Sheet (MSDS) is available upon request.

## **GYPROC® FIREGUARD® C GYPSUM BOARD**

### **DESCRIPTION**

GyProc® Fireguard® C Gypsum Board has a noncombustible, dimensionally stable inert gypsum core. The core has been reinforced with the addition of glass fibers, increasing its strength and its resistance to the passage of heat. **The surfacings on both faces and on the long edges are 100% recycled paper.** The front face paper is an ivory color; the back face paper is gray. The short edges are square cut, smooth finished with no paper facing.

### **PRIMARY USES**

GyProc Fireguard C Gypsum Board is a wall or ceiling covering material for use in building construction. It is designed for direct mechanical attachment to wood or metal framing for use in building assemblies with a designated fire-resistive rating.

A specially formulated gypsum core which includes glass fibers enables GyProc Fireguard C to remain intact during a fire, helping to protect framing members and preventing or delaying the spread of fire. With joints covered, GyProc Fireguard C will resist passage of smoke.

GyProc Fireguard C is manufactured with a paper surfacing designed to receive joint treatment, paint, wall covering, or textured coatings.

### **LIMITATIONS**

GyProc Fireguard C Gypsum Board is a nonstructural product and should not be used as a nailing base or to support heavy wall mounted objects. It is intended for interior applications; it must be

kept dry and clean and not used where exposure to moisture is extreme or continuous.

Do not use GyProc Fireguard C where it is exposed to temperatures exceeding 125°F for extended periods of time, e.g., located adjacent to wood burning stoves, electric lighting, heating appliances, and hot air flues.

#### **APPLICABLE STANDARDS**

ASTM C 36, Type X

Federal Specification, SS-L-30D, Type III, Grade X, CSA A82.27

#### **BUILDING CODE CONFORMITY**

GyProc Fireguard C Gypsum Board meets the criteria mandated by the three model code bodies: BOCA, ICBO, SBCCI. Conformity is attained by Codes reference to gypsum board construction and requirements for fire-resistive construction using Type X Gypsum Board in construction assemblies. This use is validated by testing in accordance with ASTM E 119. Separate compliance, research, and evaluation reports are not required, due to Codes reference.

#### **SIZES AND EDGES**

Thickness (nominal): 5/8"

Width (nominal): 48"

Length (standard): 8'-16'

Thickness (nominal): 1/2"

Width (nominal): 48"

Length (standard): 8'-16'

Edges: Tapered, square, tapered with round edges.

#### **SUPPLEMENTAL MATERIALS**

Surface and corner beads and trim, expansion joints, tape, joint compound.

## **TECHNICAL DATA**

#### **SURFACE BURNING CHARACTERISTICS**

Flame spread 15 and smoke developed 0 when tested according to ASTM E 84. The core is noncombustible when tested in accordance with ASTM E 136.

#### **FIRE-RESISTANCE RATINGS**

GyProc Fireguard C Gypsum Board meets the criteria for type X, special fire-resistant, as defined in ASTM C 36. Gypsum Fireguard C is classified for fire-resistance by Underwriters Laboratories.

#### **SOUND CONTROL**

Sound rated assemblies require sealing at top, bottom, intersections, and other locations where sound leaks may develop.

## **INSTALLATION**

#### **APPLICATION STANDARDS**

GyProc Fireguard C Gypsum Board may be applied according to the Gypsum Association

Publication GA-216 or ASTM C 840 for non-fire rated construction.

Application regarding board orientation, fastener type and spacing must be consistent with the tested construction details. These details are published in the Gypsum Association Fire Resistance Design Manual GA-600, UL/ULC Fire Resistance Directory, and Warnock Hersey Listings Book.

### **METHODS**

Appropriate methods of installation are based on the desired fire-resistance rating or specified STC value required. These ratings and values require that details of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publications GA-201 and GA-216 will facilitate optimum performance through preferred construction practices.

For non-rated construction, installation methods for single- or multi-layer construction involving attachment using mechanical fasteners, adhesive, or adhesive with supplemental fasteners. Refer to Gypsum Association publications for application and installation details.

The installation method selected must be planned carefully to minimize the number of end joints. GyProc Fireguard C Gypsum Board can be cut to the necessary size by scoring the face paper with a sharp knife, then snapping away from the cut face. The back paper is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

### **SAFETY**

During installation involving cutting, scoring, and breaking, safety glasses are recommended. If the work environment is dusty, a NIOSH approved respirator should be worn. Do not use a power saw.

### **HANDLING PRECAUTIONS**

Stack GyProc Fireguard C Gypsum Board on a flat, level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling also is outlined in Gypsum Association GA-216 and GA-801.

Take care to avoid impact, undue flexing, and subsequent damage to board edges, ends, and corners. Avoid scuffing the face to be finished.

### **MATERIAL SAFETY DATA SHEET**

Material Safety Data Sheet (MSDS) is available upon request.

For more information, contact the local G-P Gypsum representative nearest you:

*United States: (800) 876-4746 Midwest; (800) 327-2344 South; (800) 947-4497 Northeast; (800) 824-7503 West*

*Canada: (800) 563-1696 Atlantic Provinces; (800) 361-0486 Quebec; (800) 387-6823 Ontario; (800) 661-6589 Prairies; (800) 663-6402 British Columbia*

For technical assistance, contact the G-P Gypsum Technical Hotline:

**800-225-6119**