



NYC Department of Buildings
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Patricia Lancaster, FAIA, Commissioner
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Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 388-06-M

Manufacturer: National Gypsum Company, 2001 Rexford Road, Charlotte, NC 28211

Trade Name(s): Gold Bond®, XP®, Fire-Shield®, Hi-Abuse®, Kal-Kore®

Products: National Gypsum Company 5/8" wallboard:
5/8" Gold Bond® BRAND Fire-Shield®, 5/8" Gold Bond® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND XP® Fire-Shield®, 5/8" Hi-Abuse® BRAND Fire-Shield®, 5/8" Gold Bond® BRAND Fire-Shield® Exterior Soffit Board

Pertinent Code Section(s): 27-339, 27-340, 27-341, 27-346

Prescribed Code Section(s): Fire-rated Wall Test ASTM E119

Laboratory: Underwriters Laboratories, Inc.

Test Report(s): File R3501, Project 03NK13365, dated October 27, 2003

Description:

5/8" Hi-Abuse® BRAND XP® Fire-Shield® Wallboard panels consist of fire resistant Type X gypsum core encased in heavy, smooth, abrasion resistant, mold/mildew resistant, 100% recycled purple paper on the face side and 100% recycled heavy mold/mildew resistant liner paper on the back side. Hi-Abuse XP Wallboard is designed to provide extra protection against mold and mildew compared to standard wallboard products. The panels feature a specially formulated core to provide greater resistance to surface indentation and abuse. Long edges of panels are tapered which allow the wallboard joints to be treated in a normal manner.

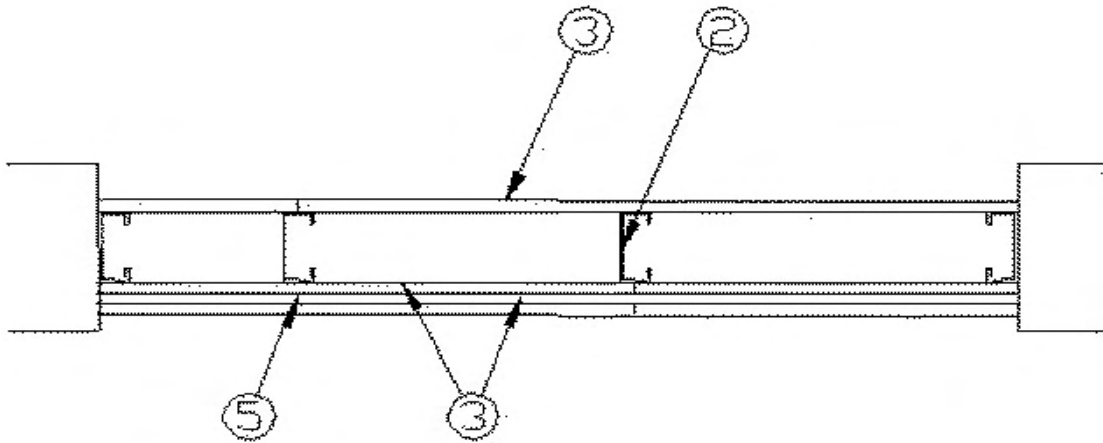
The National Gypsum Company series of 5/8" wallboard panels include the following additional products: **5/8" Gold Bond® BRAND Fire-Shield®, 5/8" Gold Bond® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND Fire-Shield®, 5/8" Gold Bond® BRAND Fire-Shield® Exterior Soffit Board.**

The entire National Gypsum Company series of 5/8" wallboard products include a Type X fire resistive core. **5/8" Gold Bond® BRAND Fire-Shield®** is designed to achieve fire resistance ratings when used in recommended systems. **5/8" Gold Bond® BRAND Fire-Shield® Kal-Kore®** is designed with an absorptive face paper to permit rapid trowel application and strong bond of veneer or traditional gypsum plaster. **5/8" Hi-Abuse® BRAND Fire-Shield® Kal-Kore®** is encased in a heavy, absorptive face paper designed to permit rapid trowel application and strong bond of veneer plaster and strong liner paper on the back side. **5/8" Hi-Abuse® BRAND Fire-Shield®** is encased in a heavy, smooth abrasion resistant face paper and heavy liner paper on the back. **5/8" Gold Bond® BRAND Fire-Shield® Exterior Soffit Board** is designed to provide a fire resistive gypsum ceiling board and the extra resistance to moisture and sagging to meet protected outdoor conditions.

The **5/8" Hi-Abuse® BRAND XP® Fire-Shield® Wallboard** product in addition to the **5/8" Gold Bond® BRAND Fire-Shield®, 5/8" Gold Bond® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND Fire-Shield® Kal-Kore®, 5/8" Hi-Abuse® BRAND Fire-Shield®,** and **5/8" Gold Bond® BRAND Fire-Shield® Exterior Soffit Board** products qualify for use in fire resistive assemblies as outlined in the following UL design numbers for 5/8 inch thick wallboard with a core designation of FSW:

| | One Hour Noncombustible Fire Resistive Assemblies | Two Hour Noncombustible Fire Resistive Assemblies | Three Hour Noncombustible Fire Resistive Assemblies | Four Hour Noncombustible Fire Resistive Assemblies |
|-----------------------------|--|---|--|---|
| UL Design Assemblies | P516, P541, U405, U418 (or 45 Min.), U420, U422, U425 (or 45 Min.), U434, U439, U450, U460, U465, U466, U475, U487, U494, U499, U531, U646, U649, U651, U652, V408, V421, V425, V430, V432, V433, V434, V435, V438, X526, X528 | G503, N501, N505, U411, U418, U420, U421, U425 (or 1.5 Hr.), U449 (1.5Hr.), U475, U505, U525, U531 (or 1.5 Hr.), U647, U651, U652, V415, V419, V420, V421, V430, V433, V438, V449, X526, X528 | N505, U450, U475, U603, U648, V430, V438, X510, X526, X528 | U450, U475, U926, V430, V438, X526 |

UL V449 Assembly Description:



NATIONAL GYPSUM CO — 5/8 in. thick Type FSW

1. **Floor and Ceiling Runners** — (Not shown) - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC max.

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, 3-1/2 in. min width, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

3. **Gypsum Board*** — 5/8 in. thick, 4 ft. wide with beveled, square or tapered edges. Applied vertically with joints centered over studs and staggered between layers.

4. **Fasteners** — (Not shown) - For base layer, 1-1/8 in. Type S screws used to attach panels to studs, spaced 8 in. OC. around perimeter and 12 in. OC. in field. Second layer, 1-5/8 in. long Type S screws spaced 12 in. OC. around perimeter and 12 in. OC. in field. Second layer screws staggered 6 in. OC. from base layer. Face layer, 2-1/4 in. Type S screws spaced 8 in. OC. around perimeter and 12 in. OC. in field. Face layer perimeter screws staggered 1 in. OC. from second layer and staggered 6 in. OC. in field.

5. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer panels.

*Bearing the UL Classification Mark

Terms and Conditions: The above-described fire-rated wall assembled designs be accepted as having the fire-resistance ratings as indicated when used where combustible or non-combustible construction as required in accordance with the Building code with the following conditions:

1. This acceptance does not include structural adequacy or wall design which must be checked by a professional engineer or registered architect for particular structure for compliance with Building Code.
2. Installation shall comply with New York City Building Code and UL fire-resistance rating as specified above.
3. All shipments and deliveries of such material shall be provided with a certificate or label certifying that the material shipped or delivered are equivalent to that tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

NOTE: In accordance with section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance October 17, 2006

Examined By Simon Derkhdam