



NYC Department of Buildings
280 Broadway, New York, NY 10007
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 199-06-M

Manufacturer: United States Gypsum Company, 125 S. Franklin, Chicago, IL 60606

Trade Name(s): FIBEROCK[®] Brand Panels, VHI Abuse Resistant SHEETROCK[®] Brand Gypsum Panels, Firecode[®] Core SHEETROCK[®] Mold Tough[™] Firecode[®] Core Gypsum Panel

Product: Fire-rated impact resistance wall assemblies

Pertinent Code Section(s): Local Law 26 Rule 32-05, 27-131, 27-375(i)(6), 27-987(c)(2) and RS 10-3

Prescribed Test(s): Hard Body Impact Testing per ASTM C1629-05 "Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels", and soft body impact testing per ASTM E695 "Measuring Relative Resistance of Wall, Floor, and Roof Construction to Impact Loading".

Laboratory: Wiss, Janney, Elstner Associates, Inc. (WJE)

Test Report(s): WJE Report No. 2006.0351
USG SHAFTWALL Systems B and E for 2-hour fire ratings approved under MEA 309-03-M

Description: FIBEROCK® Brand Panels, VHI Abuse-Resistant, UL Type FRX-G, SHEETROCK® Brand Gypsum Panels, Firecode® Core Type SCX, and SHEETROCK® Mold Tough™ Firecode® Core Gypsum Panel Type SCX for use in 2 hour UL U415 fire-rated non-load-bearing USG SHAFTWALL systems B and E.

Hard Body Impact Testing:

For single layer systems with 16" and 24" stud spacing and FIBEROCK® Brand Panels, VHI Abuse-Resistant, met requirements of 100 ft-lbs per Rule 32-05 of Local Law 26. Multiple layer systems with 16" and 24" stud spacing utilizing FIBEROCK® Brand Panels, VHI Abuse-Resistant, and SHEETROCK® Brand Gypsum Panels, Firecode® Core or two layers of FIBEROCK® Brand Panels, VHI Abuse-Resistant, met and exceeded the 150 ft-lbs requirement per Rule 32-05 of Local Law 26.

Soft Body Impact Testing:

Representative wall construction assemblies of 8' and 12' heights were used for soft body impact testing. A double layer of FIBEROCK® Brand Panels, VHI Abuse-Resistant and SHEETROCK® Brand Gypsum Panels, Firecode® Core, was tested on an 8' wall assembly. Results demonstrated the assembly met and exceeded the requirements of 195 ft-lbs. The end reaction testing for 8' and 12' walls replicated the head of wall construction as described in UL design 415 systems B & E. The base and face layers of the wall board were cut 1" short of head of wall to prevent any contribution from the two layers of wall board to the end reaction capacity of the assembly. Results of the end reaction tests indicated that the standard anchoring details for USG SHAFTWALL systems meet and exceed the equivalent energy of the soft body impact classification of Level 2 (195 ft-lbs).

Fire Resistance

FIBEROCK® Brand Panels, VHI Abuse-Resistant, UL Type FRX-G, SHEETROCK® Brand Gypsum Panels, Firecode® Core Type SCX, and SHEETROCK® Mold Tough™ Firecode® Core Gypsum Panel Type SCX are classified by Underwriters Laboratories, Inc. for two-hour fire-resistance ratings as shown in UL design U415 (MEA 309-03-M).

Terms and Conditions: The FIBEROCK® Brand Panels, VHI Abuse-Resistant, UL Type FRX-G, SHEETROCK® Brand Gypsum Panels, Firecode® Core Type SCX, and SHEETROCK® Mold Tough™ Firecode® Core Gypsum Panel Type SCX are accepted for use in stair and elevator enclosures with the following conditions:

1. The design shall meet UL two-hour fire resistance design U415, systems B and E (with additional layer of 5/8" Firecode® on impact side).
2. Structural requirements shall comply with Subchapter 10, Reference Standard RS10-3 and other applicable provisions of the New York City Building Code.
3. The acceptance of this assembly is limited to fire resistance only. Structural and other requirements shall be in accordance with pertinent Building Code, Laboratories' listing and the manufacturer's requirements.

4. All shipments and deliveries of such materials shall be provided with a certificate or label certifying that the material shipped or delivered is equivalent to that tested and acceptable for use, as provided for in Section 27-131 of the New York City 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 March 14, 2007

Examined By Sian Derkudam