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Gypsum Association Releases Revised Application Standard

The Gypsum Association announces the publication of its revised application standard, *GA-216-2007, Application and Finishing of Gypsum Panel Products*.

The document's title and text have been revised to make clear that its recommendations pertain to all gypsum panel products used for interior wall and ceiling surfaces, and exterior soffits. The information in the new edition of the document remains applicable to gypsum board products including gypsum wallboard, gypsum ceiling board, and water-resistant gypsum board, and to gypsum panel products.

New to this edition are revised specifications for the application of water-resistant gypsum board and revised specifications for sealant materials.

GA-216-2007, Application and Finishing of Gypsum Panel Products, may be purchased online from the Association's website at: www.gypsum.org, or by telephoning the Association for an order form at (202) 289-5440. 4



BOARD TALK is published specifically for code officials and building inspectors. To request your own copy and be added to our complimentary mailing list, just submit the online sign-up form located under the **Code Enforcement Officials** section on our Website (www.gypsum.org). You can also contact us at: fax: 202-289-3707; phone: 202-289-5440; e-mail: info@gypsum.org.

Gypsum Association Releases Revised Finishing Recommendations

The Gypsum Association announces the publication of the revised finishing recommendation, *GA-214-2007, Recommended Levels of Gypsum Board Finish*.

This publication, jointly produced by four leading associations in the industry, assists specifiers, owners, and contractors to precisely describe the desired finish of individual walls and ceilings to meet specific needs. Based on *ASTM C-840, Standard Specification for the Application and Finishing of Gypsum Board*, it avoids non-specific terms like "industry standards" and "workmanlike finish" and the problems they can cause. The new edition offers revised language on the application of skim coats and an entirely new look.

GA-214-2007, Recommended Levels of Gypsum Board Finish, may be purchased online from the Association's website at: www.gypsum.org, or by telephoning the Association for an order form at (202) 289-5440. 4



GA Developing New CEU on Application and Finishing



The Gypsum Association is in the final stages of producing its next on-line CEU training program. Using material from GA-216, *Application and Finishing of Gypsum Panel Products*, and GA-214, *Recommended Levels of Gypsum Board Finish*, this program focuses on the proper conditions for the finishing of gypsum panel products and choosing and applying the appropriate level of finish to the gypsum board surface.

The program, titled "Understanding the Finishing of Gypsum Panel Products using GA-216 and GA-214, Recommended Levels of Gypsum Board Finish," will offer a one-hour Health, Safety, and Welfare (HSW) AIA CEU credit. Upon its completion and approval by AIA, the program will be available to anyone with internet access to the Association's website at www.gypsum.org. Anyone who completes the program, and achieves a final score of 80 percent or better, will receive a certificate of completion and, if eligible, the AIA credit.

Revised Evaluation Report Available on Web



ICC Evaluation Services, Inc. has revised and reissued evaluation report ESR-1338, *Gypsum Wall and Ceiling Assemblies and Gypsum Board Interior and Exterior Applications*. The evaluation report addresses the compliance of gypsum systems and gypsum board materials with the 2003 International Building Code, the 2003 International Residential Code, and the 1997 Uniform Building Code.

The report is sponsored by the Gypsum Association. The revised edition of the report carries a December 1, 2006, effective date.


The primary modification to the reissued report is its acknowledgement of the 18th edition of GA-600, *Fire Resistance Design Manual*, as an acceptable source for generic fire- and sound-rated gypsum systems. The 18th edition of GA-600 was released in 2006 and is the current edition available from the Gypsum Association.

The report also describes a series of fire-resistance-rated and sound-rated gypsum assemblies that do not appear in either GA-600 or the building codes, including a solid shaft wall enclosure; a wood-frame staggered-stud partition; a two-hour bearing wall with a 50 STC rating; and floor- and roof-ceiling systems. In addition, ESR-1338 contains a significant quantity of supplementary information that elaborates on the use of gypsum board as a code-compliant building material, including an alternate suspended ceiling construction method that is composed of cold-rolled steel runner channels to which gypsum board is attached to create a fire-resistant suspended ceiling.

(Continued on page 3)

(Revised Evaluation Report Available on Web, continued from page 2)

Other conditions addressed in the report include: Sound Control Systems, Allowable Partition Heights, Wall and Ceilings in Shower and Bath Areas, Exterior Ceiling Surfaces, Exterior Wall Surfaces, Roof Assemblies, Thermal Barriers, Ceiling Diaphragms, and Shear Walls.

A PDF copy of ESR-1338, *Gypsum Wall and Ceiling Assemblies and Gypsum Board Interior and Exterior Applications*, can be downloaded through the Gypsum Association's website at www.gypsum.org. 


MAILBAG



Q: Are “nail pops” the result of “shrinking” gypsum board? I've heard that this can happen because the gypsum board has absorbed excessive moisture after exposure to high humidity conditions during transit and storage and then, after installation in a conditioned environment, the board shrank, which in turn caused the heads of the application fasteners to become exposed.

A: Gypsum board does expand and contract with changes in temperature and humidity, but those changes are imperceptible and considerably less than necessary to expose a fastener head.

An inch of gypsum board will expand 0.000009 inches when the temperature of the board is increased by one degree Fahrenheit, or an inch of gypsum board will expand 0.0000072 inches when the relative humidity in the area of exposure is increased by one percentage point. So, if a standard ½-inch thick gypsum board is exposed to a 70 percent increase in humidity, it will expand 25 ten-thousandths of an inch. When the humidity returns to its original point, the gypsum board will diminish the same thickness. Not much of a change and not perceptible to the naked eye.

Now assume that the fasteners in question are either standard drywall nails manufactured to ASTM C 514 or standard drywall screws manufactured to ASTM C 1002. Per standard, ASTM C 514 nails have a head that is a minimum of 0.015 inches thick and ASTM C 1002 screws have a head that is a minimum of 0.020 inches thick, both measurements taken at the edge of the fastener. Compare the gypsum board shrinkage to the fastener head thickness and you quickly arrive at the conclusion that even if the board did shrink due to an extreme change in relative humidity, the total shrinkage was less than 2 percent of the thickness of the head of the thinner-headed fastener; movement that is undetectable if the fasteners are properly installed and not sufficient enough to expose the head of the fasteners. The movement also is less than the thickness of the face paper of the board and less than the suggested thickness of the joint treatment that is applied to the board. 

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CHAPTER 25 - BOARD TALK

SUMMER 2007

STAY CURRENT IN THE DRYWALL FIELD

GA-600-2006 18th Edition *Fire Resistance Design Manual*

Includes fire-resistance ratings for over 375 gypsum protected wall, ceiling, roof, column, beam girder, and truss systems. Over 40 system designs have been added since the previous edition, including several new floor- and roof-ceiling systems and double-stud steel partition designs. Referenced by the International Building Code, Uniform Building Code, and the Building Construction and Safety Code, NFPA 5000. Also referenced in major jurisdictions in the United States such as Florida, Chicago, Los Angeles, and New York City. Recognized in major jurisdictions in Canada. 158 pages.

GA-216-2007 *Application and Finishing of Gypsum Panel Products*



The most up-to-date industry recommendations for the proper installation and finishing of gypsum board, including related accessories, over a variety of substrates and framing. An invaluable resource for owners, specifiers, installers, and code officials. "The drywall hanger's bible."

GA-530 *Design Data - Gypsum Board*

Our most complete collection of current Gypsum Association publications containing the most recent edition of the *Fire Resistance Design Manual* (GA-600) as well as GA-214, GA-214-M, GA-216, GA-220, GA-221, GA-222, GA-223, GA-224, GA-225, GA-226, GA-229, GA-232, GA-234, GA-235, GA-236, GA-253, GA-254, GA-276, GA-290, GA-291, GA-406, GA-510, GA-515, GA-610, GA-618 and ICC-ES ESR-1338.

A MUST FOR PLAN REVIEWERS, CODE OFFICIALS, FIRE MARSHALS & BUILDING INSPECTORS TO ORDER, FAX OR MAIL THIS ORDER FORM TO:

GYPSUM ASSOCIATION - 810 First Street NE - #510 - Washington, DC 20002
TEL: 202-289-5440 - FAX: 202-289-3707

You can order publications on our Website at www.gypsum.org.

Please send me:

_____ Copies of GA-600-2006 (18th edition) - FIRE RESISTANCE DESIGN MANUAL X \$ 18.00 each = _____

_____ Copies of GA-216-2007 - APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS X \$ 13.50 each = _____

_____ Copies of GA-530 - DESIGN DATA-GYPSUM BOARD X \$ 53.95 each = _____

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810 First Street NE - #510
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