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GYPSUM ASSOCIATION | **GYPSUMATION**
 Supplement to Construction Digests | FALL 2012

Gypsum Association to Release 20th Edition of Flagship Publication



The Gypsum Association is pleased to announce the release of the 20th edition of GA-600, Fire Resistance Design Manual (FRDM). Since 1988, the Association has regularly published its collection of the most in-fire-resistance-rated gypsum building system designs. Over the years, the manual has become the standard industry reference document for architects and design professionals, builders and drywall contractors, and the building code enforcement community. The FRDM is currently referenced by the International Building Code and The National Fire Code, as well as many State and local jurisdictions in the US and Canada as a source document for fire-resistance and sound-control rated designs that incorporate gypsum board in a variety of building systems.

The FRDM opens with introductory sections that describe the requirements necessary for correctly assembling fire-resistant and noise-attenuating building systems. Following the introductory sections, the FRDM depicts laboratory tested designs for both fire-resistance- and sound-attenuation-rated gypsum board building systems. Fire resistance ratings range from one to four hours; sound attenuating systems

(continued on page 8)

Inside this issue:

GA Features: New Publications	2
GA Features: Case Studies	2
GA Product News: Versatile GA-800 T2	3

VISIT THE GYPSUM ASSOCIATION WEBSITE AT WWW.GYPSUM.ORG

We're Here Gypsum Board Information Resource!

Gypsum Association Posts New Website

The Gypsum Association has recently launched a new website to better address the growing need for information about gypsum products.

The GypsumInfo website, located at <http://www.gypsuminfo.org>, is designed to help the public better understand the origins, uses, and many safety and environmental features of gypsum board. It also includes economic information as well as updates on relevant current issues involving gypsum board.

The new site offers five sections, each designed to provide general information and supporting links to specific information on a particular topic.

The **Fast Facts** section informs how the gypsum industry adds value to the US economy while providing environmentally sustainable building materials for the built environment.

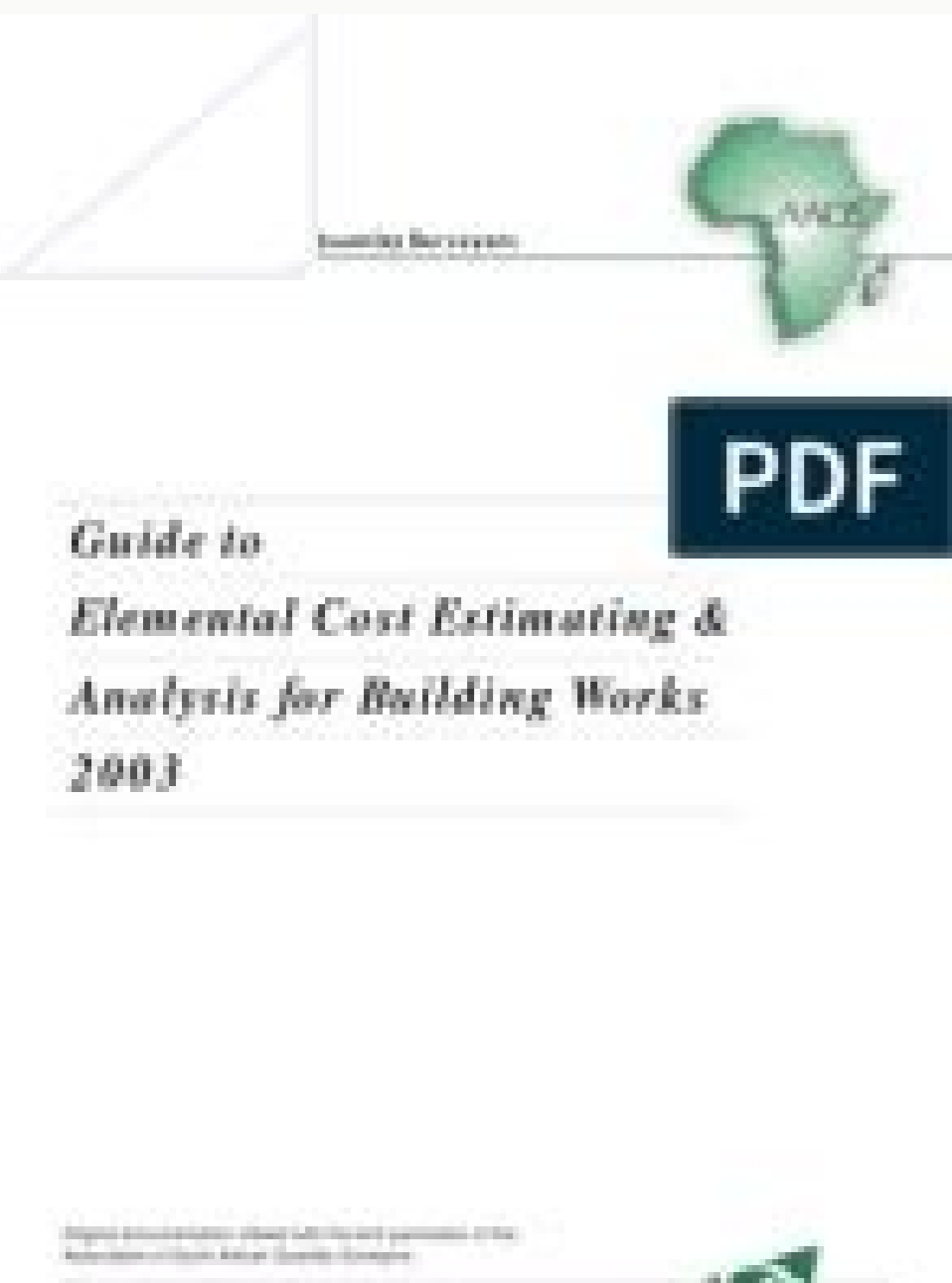
The **Gypsum 101** section discusses the chemical composition and uses of gypsum, with links to the history of



the gypsum industry and a description of how gypsum products are made.

The **Gypsum and the Environment** section explains how the gypsum industry utilizes materials that would otherwise be sent to our landfills and how gypsum products contribute to a sustainable environment.

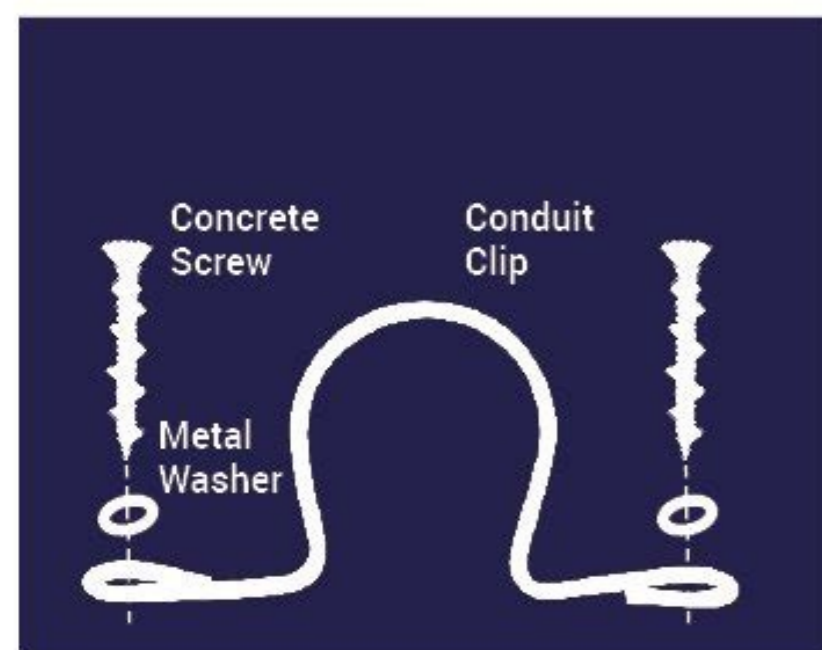
(Continued on page 11)



INSTALLATION GUIDE

Firefly CONDUIT Clip

FFRC20 To Suit Plastic Conduit 20mm diameter
FFRC25 To Suit Plastic Conduit 25mm diameter



1. Select the correct size clip for the conduit to be used.
2. Acquire the correct concrete screw, supplied at same place as clips.
3. Never use a plastic plug, the fixing must be all metal.
4. Fit the screw fixing through a metal washer then through the clip and into the substrate and finally secure into the substrate.
5. The washer MUST be installed across the two sides of the clip to ensure a secure fixing.

SPACING: Use 400mm spacing for vertical spacing. For horizontal spacing use 400mm spacing except over doors, windows or other openings which should be 300mm spacing.

SCREWS: must be used with the correct drill size.

QUALIFIED ELECTRICIANS ONLY.



GA - 600 - 2009 FIRE RESISTANCE DESIGN MANUAL

FIRE RESISTANCE DESIGN MANUAL

SOUND CONTROL



GYPSUM SYSTEMS

19th Edition
GA-600-2009



THE GYPSUM ASSOCIATION
10010 WOODBURN AVENUE
JANESVILLE, WI 53402
TEL: 608.785.4200
WWW.GYPSUMASSOCIATION.ORG

Ga-600 pdf. Ga-600 fire resistance design manual.

12Fire Resistance Tests . . .100TABLE OF CONTENTS4 GA-600-2009 FIRE RESISTANCE DESIGN MANUAL .13Wall and Partition Systems . . .86Shaft Walls, 3 HOUR . . .75Chase Walls, Wood Framed, 1 HOUR . . .11SECTION II - REQUIREMENTS FOR FIRE PROTECTION . . .74Chase Walls, Noncombustible, 2 HOUR . . .17Perimeter Relief and Control Joints . . .13Area Separation Fire Walls (Party/Fire Walls) . . .83Shaft Walls, 1 HOUR . . .24INDEX TO SYSTEMS BY STC RATING . . .10Product Identification . . .57Walls and Interior Partitions, Wood Framed, 1 HOUR . . .78Chase Walls, Wood Framed, 2 HOUR . . .19Sound Insulation . . .21Impact Noise Test . . .3TABLE OF CONTENTS . . .17Surface Burning Characteristics . . .80Movable and Office Partitions, 2 HOUR . . .71Chase Walls, Noncombustible, 1 HOUR . . .24LISTING OF DELETED SYSTEMS . . .Additionally, each member company makes annual written certification to the Gypsum Association that its products manufactured for use in systems listed in this manual continue to be inspected and labeled by an independent third-party testing service. Get it now. . .15Column Protection Systems . . .79Movable and Office Partitions, 1 HOUR . . .22Notes . . .Since 1973, model building codes such as the IBC and the NEC have referenced the GA-600 Fire Resistance and Sound Control Design Manual as a primary source of fire resistant and sound control rated designs. The 2021 edition contains more than 750 fire- and sound-rated systems including: Walls and interior partitions Shaft walls and exterior walls Area separation fire walls Floor-ceiling and roof-ceiling systems Horizontal membrane systems Column, beam, girder, and truss protection systems To maintain industry-wide quality assurance standards for gypsum panels defined in this Manual as "type X," the Gypsum Association requires that all companies listing proprietary tests or systems, or relying on the generic systems in this Manual, shall subscribe to an on-going third-party, in-plant product inspection and labeling service. . .14Floor-Ceiling and Roof-Ceiling Systems . . .12Type X Gypsum Board . . .7General Explanatory Notes . . .14Ceiling Openings . . .84Shaft Walls, 2 HOUR . . .7Overview . . .12Performance of Gypsum Plaster . . .17Smoke Barriers . . .27Walls and Interior Partitions, Noncombustible, 1 HOUR . . .16Fire Blocking . . .14Beam, Girder, and Truss Protection Systems . . .4INTRODUCTION . . .23SECTION IV - FIRE RESISTANCE AND SOUND CONTROL SYSTEMS . . .In addition, the Manual has been recognized in major jurisdictions in Canada.FOREWORD3GA-600-2009 FIRE RESISTANCE DESIGN MANUALFOREWORD . . .5Walls and Interior Partitions, Noncombustible, 4 HOUR . . .12Fire Resistive Properties of Gypsum . . .26LISTING OF NEW SYSTEMS . . .26WALL AND PARTITION SYSTEMS . . .27Walls and Interior Partitions, Noncombustible, 2 HOUR . . .8Testing Agencies . . .18SECTION III - SOUND CONTROL . . .7Description of Terms . . .15Continuous Ceiling Protection . . .19Sound Transmission Loss Tests . . .19thEditionGA-600-2009GA - 600 - 2009 FIRE RESISTANCE DESIGN MANUALYPSM ASSOCIATIONGUSJUE209n 0FIRERESISTANCEDESIGNMANUALSOUND CONTROLGYPSUM ASSOCIATIONThe Gypsum Association FIRE RESISTANCE DESIGN MANUAL is referenced by the following code and standards writing organizations:INTERNATIONAL BUILDING CODE, published by:International Code Council, Inc.5203 Leesburg Pike, Suite 600Falls Church, Virginia 22041(See footnote a, Tables 719.1a, 719.1b, and 719.1c)BOCA NATIONAL BUILDING CODE, published by:Building Officials and Code Administrators International, Inc.4051 West Flossmoor RoadCountry Club Hills, Illinois 60478-5795(See Chapters 7, 12, and 25, Commentary to the BOCA National Building Code)UNIFORM BUILDING CODE, published by:International Conference of Building Officials5360 Workman Mill RoadWhittier, California 90601(See footnote a, Tables No. 7-A, -B, and -C, and Appendix Section 1209)STANDARD BUILDING CODE, published by:Southern Building Code Congress International, Inc.900 Montclair RoadBirmingham, Alabama 35213-1206(See Section 701.5.2)THE NATIONAL FIRE CODES, published by:National Fire Protection Association1 Batterymarch ParkP.O. Box 9101Quincy, Massachusetts 02269-9101(See NFPA 90A, NFPA 101, NFPA 221, NFPA 5000, and the Life Safety Code Handbook)The FIRE RESISTANCE DESIGN MANUAL is also referenced in the code documents of major jurisdictions in the United States such as Florida, Chicago, Los Angeles, and New York City. .60Walls and Interior Partitions, Wood Framed, 2 HOUR . . .15Individual Encasement Protection . . .6SECTION I - USE OF THIS MANUAL AND GENERAL EXPLANATORY NOTES . . .11Abbreviations . . .42Walls and Interior Partitions, Noncombustible, 3 HOUR . . .

For 75 years, BNI Building News has been the nation's leading source for construction cost estimating books, square-foot cost data, building codes, electrical codes, Gypsum Association references, and public works specifications including the Greenbook.

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