Today’s Presentation

- Why partner with FM Approvals?
- Accomplishments
- What’s new?
- Changes
- Growth of the program
- Miscellaneous questions I receive
Why Should I Partner With FM Approvals?

FM Approvals

- 200+ employees, Offices worldwide
- Focused solely on Approving products and services that promote Property Loss Prevention
- Develops and publishes Approval Standards
- 50,000+ Products and Services Approved
- Publish on-line in Approval Guide and RoofNav
Who is FM Global?

Property Insurance Company

- 175+ year old company
- Commercial & Industrial Properties
- Headquartered in USA
- Losses are preventable or can be mitigated
  - No actuaries!
  - Engineer the problem!
  - Want you in business the day after an event!
FM Global

- 1,800+ Engineers
- Insure facilities globally
- 200+ countries
Accomplishments

We’ve accomplished the following since the last Conference:

1) Met with FCIA Leadership in Norwood, MA.
2) Gave a presentation to MFL wall specialists on firestopping and firestop contractors.
3) Revised and reissued Approval Standard 4991 (Oct 2013)
WHAT’S NEW?
2013 World Champions!
What’s New?

- Approval Standard 4991
  - Originally issued in 2000
  - Working with FCIA Committees
  - Sent to all Approved Contractors for review and comment
  - Used our 20-20 hindsight to try to improve the program and further clarify or define some situations that were not anticipated
Approval Standard for Approval of Firestop Contractors

Class Number 4991

May 2001

Approval Standard for Firestop Contractors

Class Number 4991

October 2013
Major Changes

Refined the definition of CEU

*Continuing Education Unit (CEU)* – is a measure used in Continuing Education programs. For the purpose of this document, CEUs must be issued by providers who have successfully gone through the Authorized Provider Accreditation Process and are approved to issue CEUs by the International Association for Continuing Education and Training (IACET).
Major Changes

Added the concept and definition of LU

*Learning Unit (LU)* – is a standard unit to measure learning. LUs do not need to be recognized by the International Association for Continuing Education and Training (IACET). They shall be educational in nature. One (1) LU = one (1) hour of learning.
CEUs vs LUs

One (1) CEU = Eight (8) LUs

Current Requirement: 6 CEUs every 3 years

New Requirement: 6 CEUs or 48 LUs every 3 years

Basically nothing has changed except for the terminology.

Gives FM Approvals more leeway in granting credits

Eight (8) LUs given for being an officer of the FCIA or Chair/Vice Chair of an FCIA committee.

Possibly given to officers of other organizations.
Clarification on Branch Offices - Shall

1) be allowed to have branch offices or store fronts that are not FM Approved. Such non-Approved branch offices or store fronts shall not indicate that they are FM Approved, shall not apply labels to their work that indicates they are FM Approved nor shall they conduct business that requires an FM Approved Firestop Contractor.

2) use field personnel (supervisors and installers) that are employed by the same branch office or store front where the Approved company and DRI are located when an FM Approved Firestop Contractor is required.
Options for Re-exam

Current requirement: Every 3 years, written re-exam and 6 CEUs

New requirements: 6 CEUs or 48 LUs + written exam
or
take original 2 exams again
or
obtain 9 CEUs or 72 LUs and the written re-exam is waived

Anniversary is either June 30th or December 31st
QA Manual Requirements

Submittal package must:

1) be signed/initialed by the DRI
2) contain a matrix showing system and intended system/penetrant
3) contain a written policy – acceptable to FM Approvals – for conducting destructive testing, record keeping for such tests and marking/identifying these locations
Effective date of changes

Effective date of changes is July 1, 2015

In 2014:

FM Approvals will develop a checklist for QA Manuals.

Auditors will review QA Manuals during 2014 annual audit

Revised QA Manuals to be submitted and reviewed (1st half of 2015)
Example of a Firestopping Matrix

<table>
<thead>
<tr>
<th>Project:</th>
<th>NON-METALLIC PENETRATIONS</th>
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</thead>
<tbody>
<tr>
<td>Through Penetrant</td>
<td>Assembly Penetrated</td>
</tr>
<tr>
<td>PVC</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>HOLLOW CORE PRECAST</td>
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<tr>
<td>PVC</td>
<td>CONCRETE WALL / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC - 6&quot;, 8&quot;, 10&quot;</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC COUPLING</td>
<td>CONCRETE / CMU</td>
</tr>
<tr>
<td>PVC</td>
<td>GYPSUM WALL</td>
</tr>
<tr>
<td>PVC</td>
<td>GYPSUM WALL</td>
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<tr>
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<td>GYPSUM WALL</td>
</tr>
<tr>
<td>PVC - 6&quot;, 8&quot;, 10&quot;</td>
<td>GYPSUM WALL</td>
</tr>
</tbody>
</table>

*NOTED SYSTEMS CARRY "W" RATING FOR WATER TIGHTNESS WHEN FB 3000 WT IS USED.

* WHEN USING CFVC PIPE, ONLY USE IC 15WB+ OR FB 3000 WT. CP-25 WB+ IS NOT COMPATIBLE WITH CFVC PIPE.
# Growth of the program

<table>
<thead>
<tr>
<th>Approval Guide</th>
<th>No. of locations</th>
<th>No. of DRIs</th>
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<td>2011</td>
<td>91</td>
<td>130</td>
</tr>
<tr>
<td>2012</td>
<td>100</td>
<td>148</td>
</tr>
<tr>
<td>2013 (Nov)</td>
<td>101</td>
<td>152</td>
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</table>

In-processed – authorized 4 locations
Miscellaneous Questions

Q I just took the exams for becoming a DRI. When will I receive the results?
A It normally takes around 2 weeks for them to be graded, recorded and results letters sent.

Q What are the exams like?
A General Information Test - is short questions of the T/F and multiple choice type.
Design Selection Test – is a set of 5 problems, each with 5 questions, multiple choice answers.
Miscellaneous Questions

Q  What do I need to bring to the exam?
A  A picture ID. The exam is closed book. You will be given copies of all designs referenced in the problems so you don’t have to remember specific listings.

Q  If I don’t pass the exam, can I take it again?
A  New - An individual shall be limited to taking each written exam once every thirty (30) days and not more than three (3) times in any six (6) month period.
Miscellaneous Questions

Q  Can I take the exam anywhere besides the FCIA Conference?
A  Yes. Exams can be administered during the initial audits. You can also travel to my office in Norwood, MA. Call ahead first!

Q  Any advice?
A  Yes. If you receive something from FM Approvals (such as an invoice, an email regarding your re-exam, scheduling of your audit), don’t just ignore it. Contact the sender if you have a problem.
Q  Do I receive any credits for attending FCIA Conferences?
A  Yes. You will receive 12 LUs for attending a Conference.

Q  How does the re-exam work?
A  About 6 months before your date to renew, you will receive an email reminder telling you your deadline, options and how to submit CEUs/LUs.
Q If I am a DRI, and I leave an FM 4991 Approved company, am I automatically a DRI at my new company?

A No. The data generated during the Approval process is considered proprietary to the company that sponsored the original Approval. The DRI status can be transferred to the new company by obtaining by having the original company send a written release to FM Approvals. Without a written release, the only option is to retake the original written exams.
Where’s My Listing?
www.ApprovalGuide.com

Getting Started

Welcome to the Approval Guide, your source for the most up to date information about FM Approved products and services. The Approval Guide provides many ways to perform your searches:

- Hierarchical searching in the content tree for each division of the Guide
- Parametric searching within folders of the content tree
- Keyword searching within Company and Product names
- Text-based keyword searches
- Searching by country
- Searching by certification type

For new users of the Approval Guide, we recommend you read our Quick Start Guide which is available here. This guide provides a quick overview of each of the search methods listed above. Once you have read the guide, or if you’d rather get started right now, just click on one of the pictures below to enter that division of the Guide and begin your search.
Firestop Contractors (FM Approval Class Number 4991)

A firestopping system is designed to protect openings in walls, floors and construction joints at floor and wall slab edge conditions against the spread of fire within buildings or adjacent compartments. Such systems are tested in laboratory conditions in accordance with applicable test standards recognized by various authorities having jurisdiction.

In order to achieve the intended results under actual or field conditions, it is necessary that a contractor not only use the products specified in published listings, but also that the products be installed in accordance with manufacturer’s written installation instructions and accepted industry practices. Failure to install any single component in the specified manner may jeopardize the integrity of the entire system.

As a means of increasing the reliability and performance of firestopping systems, an Approval Standard for assessing firestop contractors was developed. The Approval Standard for Firestop Contractors establishes criteria to ensure that an FM Approved Contractor employ at least one Designated Responsible Individual who understands the requirements and restrictions of the various listing agency publications, the Firestop Contractors International Association’s Manual of Practice and has a demonstrated knowledge of firestopping components, systems and assemblies, their proper selection, installation and the ability to identify and implement corrective action when non-conformances occur.

Eligibility requirements include a verification that the contractor has been in business for at least two (2) years, proof of workers compensation insurance and general liability insurance as legally mandated, a demonstrated knowledge by the contractor’s Designated Responsible Individual as evidenced by attaining a minimum score of 80% on a written examination administered by FM Approvals, a demonstrated quality control program, record keeping of all installations and documented technical training acceptable to FM Approvals. Continued Approval is based on having the Designated Responsible Individual obtain follow-up CEU’s, continued satisfactory performance of firestopping systems installed under this program and annual in-house and job-site quality control audits.

Companies that have met all requirements as a Firestop Contractor are shown below:

AAC Contracting Inc
175 Humboldt St, Rochester, New York 14610, USA

<table>
<thead>
<tr>
<th>Product</th>
<th>Listing Country</th>
<th>Certification Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Stop Contractor</td>
<td>United States of America</td>
<td>FM Approved</td>
</tr>
</tbody>
</table>

AI Shadid Technical Contracting
Buteena, Bldg No. 7, 4th Floor, Flat No. 9, P.O. Box 70438, Sharjah, United Arab Emirates

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<tr>
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<tbody>
<tr>
<td>Fire Stop Contractor</td>
<td>United Arab Emirates</td>
<td>FM Approved</td>
</tr>
</tbody>
</table>
What do I get if I become a DRI?

Certificate of Compliance
as a
DESIGNATED RESPONSIBLE INDIVIDUAL

Is hereby granted on this day XXXX, 2012 to:

Your Name Here!

for successfully meeting all test criteria.

FM Approvals hereby certifies that the individual shown above met all test criteria contained in Approval Standard 4991, Approval of Firestop Contractors, to qualify as a Designated Responsible Individual (DRI).

Said recognition is subject to satisfactory field performance, accumulation of Continuing Education Units and periodic written re-examinations.

For more than 100 years FM Approvals has partnered with business and industry to reduce property losses.

Richard P. Farron, P.E.
Assistant Vice President
Group Manager
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
Thank You!
Questions?