Approved Contractor Program Update

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Agenda

- Why FM Approvals?
- What are the requirements for Approval?
- Program Updates
FM Approvals

- Third party certification and testing organization
- Focused solely on Approving products and services that promote Property Loss Prevention
- Conduct follow-up surveillance audits
- Publish online FM Approval Guide and RoofNav
- Write FM Approval Standards based on research
  - FM 4990 *Firestopping* (December 2009)
  - FM 4991 *Firestop Contractors* (October 2013)
Why Should I Partner With FM Approvals?

- FM Approvals is a Nationally Recognized Testing Laboratory (NRTL)
- Products and services recognized and accepted by end users and local regulators
- Competitive advantage & marketing differentiation
- You are also partnering with FM Global
FM Global

- A commercial and industrial insurance company with a different focus and message
- Believe that the majority of losses are preventable through engineering
- Insure 1/3 of Fortune 1000 globally
- Research based engineering used to develop FM Global Data Sheets
- Nearly 2,000 engineers worldwide
- Mutual company focus
Basis for Approval

- Contractor has been in the firestop installation business for the two (2) year period immediately prior to obtaining Approval.
- Minimum of one (1) DRI employed by the contractor per location
- An initial, in-house and job-site Surveillance Audit of the contractor’s quality control program. Continued on an annual basis.
- A documented and archived record keeping system for all installations.
Designated Responsible Individual (DRI)

- The DRI has a demonstrated knowledge of the FCIA MOP, FM Approval requirements, overall product knowledge in his/her area of expertise and the ability to select firestopping components, systems and assemblies that will meet or exceed written specifications.
- Must pass both written exams with 80% or greater
- Must be re-certified every three (3) years
Approvals Personnel Updates

- Who’s out?
- Who’s in?
# FM Approved Contractors

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<td><strong>168</strong></td>
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Growth of the Program

- **Exams**
  - Middle East – administered exams to 37 individuals in April
  - USA – administered exams to approximately 45 individuals this year

- **Approved Firestop Contractors in the following countries:**
  - USA
  - United Arab Emirates
  - Qatar
  - Singapore
  - China

- Continuously working with FCIA to promote program and develop new ideas to continue program growth
Understanding the Benefit (UTB)

The Hazards

Roofing systems are the first line of defense in the complete building envelope that includes the roof, walls, windows, doors and flashing. Roofing systems must be able to protect a structure from the natural hazards associated with the local environment, including rain, hail, snow, high winds, temperature extremes—even fire.

Wind rushing over a roof, for instance, produces lift, much like an airplane wing. This lift creates tremendous turbulence and dynamic stresses. Powerful eddies and vortices, which resemble horizontal tornadoes, churn along roof perimeters and corners. These forces can rip off roof covers, flashing, insulation and the underlying roof structure.

The failure of a building’s roof and other building envelope elements, including walls, windows and doors, can have a devastating impact from which a business may not be able to recover. When a roof is damaged or destroyed, the building contents can be exposed to flooding and contamination, further compounding the loss.

Loss prevention begins with knowledge. Most property loss, including those involving the roof, can be prevented. FM Global continues to work hard to help clients in wind-prone areas to improve their roofs and other components of the building envelope. FM Approvals is doing its part to help property owners avoid losses by continually improving Approval standards and by helping to make it easier for designers, architects and contractors to specify and install FM Approved roofing systems.

FM Approvals also works to provide Approval Standards and FM Approved products that support sustainable building practices, including green roofs (e.g., vegetative, light-colored roofing), building-integrated photovoltaics (BIPV), and skylights for day lighting.

Testing Required for Approval

FM Approvals is a leader in certification and Approval of roof assemblies. FM Approvals is the only organization in the world that tests complete roof assemblies when subjected to multiple tests such as for testing above and below the deck, wind uplift testing, hail damage testing, accelerated weathering, water leakage, foot traffic and corrosion-resistance testing of metal parts.

A roof assembly is tested to meet:

- The interior fire performance requirements using the FM Approvals Construction Materials Cabinet Test (the only such test in the world developed after many years of research and testing) adopted by NFPA in NFPA 276. It’s a pass/fail test giving the rating of Class 1 if the roof assembly passes.
- The exterior fire performance using the ASTM E 108 test method for an A, B, or C rating.
- The wind performance using ANSI/ FM 447 for ratings starting from 60 psf up to 900 psf.
- Hail, corrosion and accelerated weathering performance using FM Approvals test methods for hail, corrosion and accelerated weathering. Ratings for hail are MH (moderate hail) and SH (severe hail).

The combined analysis of fire and natural hazards testing on a roof assembly assures the purchaser and building owner a fire-safe, wind-resistant roof capable of maintaining its integrity for many years.

To select an FM Approved roof to the needs of the facility owner, designer or contractor, we need to specify the fire and natural hazards ratings. For example, a rating for a roof assembly could be I-190 A SH, where “I” represents a roof assembly that passed the interior fire test; “H” represents the wind performance rating for the roof in psf; “A” represents the exterior fire rating; and “SH” represents severe hail rating. All this information for all FM Approved roof assemblies is available in RoofNex (www.RoofNex.com).

Benefits and Availability

FM Approved roofing products and assemblies are listed in RoofNex, the FM Approvals web-based tool for roofing professionals. RoofNex takes the guesswork out of configuring an FM Approved roofing system by putting all roof-testing information, including a ratings calculator and related installation recommendations from relevant FM Global Property Loss Prevention Data Sheets, in one place.

Why choose an FM Approved roof assembly versus a non-certified product or design? An FM Approved roof means you get a tested roof assembly, not simply a collection of products and parts that may or may not perform as expected. Through RoofNex and properly installed FM Approved products, you get a roofing system that has been proven in extensive testing to perform as specified, including wind uplift, fire resistance and many other factors.
Thank you.

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