Barrier Management Symposium
Barrier Management Policies

Bill McHugh, FCIA
Objective – Keep Buildings Safe

• Barriers are for Safety – DIIM
  • Properly *Designed* and Specified
    – *Tested and Listed Systems* – Directories, Tables
    – *Specified*
  • Professional *Installation* Companies
  • Properly *Inspected* – Commissioned, by Companies
  • *Maintained* –
    – NFPA 101 - 2012 (TJC, CMS)
    – International Fire Code - IFC 2015 - Annually

• *Effective Compartmentation* for Fire & Life Safety
“TOTAL FIRE PROTECTION”

• Effective Compartmentation
  – Fire Barriers, Fire Walls/Floors, Smoke Barriers
  – Firestopping, Fire Dampers, Swinging and Rolling Fire Doors, Fire Rated Glazing
• Detection & Alarm Systems
• Sprinkler Suppression Systems
• Education & Egress–
  – Building Owners & Managers, Building Occupants and Firefighters
Building & Fire Code Requirements

• **Continuous Fire Resistance**
  – **Walls / Horizontal Assemblies** – Continuity
    • Firestop Products Become Firestop Systems
      – Penetrations
      – Joints – Head /Bottom of Wall – Perimeter Joints
    • Fire & Smoke Damper Duct Systems
    • Fire Doors and Hardware Systems
      – Rolling & Swinging
    • Fire Rated Glazing
Continuity
Effective Compartmentation Features

New UL test standards for Life Safety Dampers will take effect in July 2002
Barrier Continuity SYSTEMS

- **Products Become Systems Through Testing**
  - Fire & Smoke Barriers - ASTM E 119, UL 263
  - Fire/Smoke Dampers - UL 555, UL 555S
  - Swing/Rolling Fire Doors - UL 10B, 10C
  - Fire Rated Glazing - UL 9

- **SYSTEM Testing = Suitability statement for use of a product in a specific system application**
Products become Systems
Hose Stream = Shock Test
Barrier Continuity
Products become SYSTEMS

• Fire Rated Systems Directories –
  – FM Approvals
  – Intertek
  – UL Fire Resistance Directory

*Systems Selection & Analysis…Not as easy as it looks*
Barrier Continuity
I – Installation – Listed Systems
I- Installation
Who’s Responsible, How to Choose???
What Contractor Qualifications?

- FM 4991 – Standard for the Approval of Firestop Contractors
- UL Qualified Firestop Contractors
- Other Industries...
  - FM 4991/UL CONTRACTORS UNDERSTAND SYSTEMS & DOCUMENTATION
Why Contractor Qualifications?

• Built right the first time…
• Documentation
• SYSTEMS Selection, Analysis, As-Builts
  – F, T, L, W Rated Systems
  – Tolerances - Annular Space Sizes, Angles
  – Gap Sizes - Undercuts - Framing
  – Anchors - Spacing – Hardware
  – Closers - Activation Sensors, more…
I – Inspection – Options

• Contractor Self Inspection
  – Verify Management System validity

• Manufacturer Inspection?
  – Does not exist … Survey, maybe

• Special Inspection/Commissioning
  – Independent 3rd Party
  – Destructive, Non Destructive
  – Specified Frequency
  – Inspection Agency Accreditation – IAS AC 291
Compartmentation for Safety
Barrier Management

FCIA Barrier Management Series

Barrier Management Policies
M – Maintenance (& Management)
Fire Code Requires Fire & Smoke Resistance Maintenance

- International Fire Code
- NFPA 101
- National Building Code of Canada
- UAE Fire and Life Safety Code of Practice

- Minimum Requirements Stated

- Frequency
SECTION 4.5.8 Maintenance, Inspection, and Testing.

4.5.8.1 Whenever or wherever any device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature is required for compliance with the provisions of this Code, such device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or other feature shall thereafter be continuously maintained in accordance with applicable NFPA requirements or requirements developed as part of a performance-based design, or as directed by the AHJ. [101:4.6.12.1]
• 4.5.8.2 No existing life safety feature **shall be removed or reduced** where such feature is a requirement for new construction. [101:4.6.12.2]

• 4.5.8.3* Existing life safety features **obvious to the public**, if not required by the Code, **shall be either maintained or removed.** [101:4.6.12.3]

• 4.5.8.4 *Any device*, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature requiring periodic testing, inspection, or operation to ensure its maintenance **shall be tested, inspected, or operated** as specified elsewhere in this Code or as directed by the AHJ. [101:4.6.12.4]

• 4.5.8.5 Maintenance, inspection, and testing **shall be performed under the supervision of a responsible person who shall ensure** that testing, inspection, and maintenance **are made at specified intervals** in accordance with applicable NFPA standards or as directed by the AHJ. [101:4.6.12.5]
SECTION 703
FIRE-RESISTANCE-RATED CONSTRUCTION

703.1 Maintenance. The required fire resistance rating of fire-
resistance rated construction (including walls, fire stops, shaft
enclosures, partitions, smoke barriers, floors, fire resistive coatings
and sprayed fire resistant materials applied to structural members
and fire resistive joint systems) **shall be maintained.** Such
elements shall be **visually inspected by the owner annually** and
properly repaired, restored or replaced when damaged, altered,
breached or penetrated.

**Openings** made therein for the passage of pipes, electrical conduit,
wires, ducts, air transfer openings, **and holes** made for any reason
**shall be protected with approved methods** capable of resisting
the passage of smoke and fire.
SECTION 703
FIRE-RESISTANCE-RATED CONSTRUCTION

703.1 Maintenance. The required fire-resistance rating of fire-resistance-rated construction, including, but not limited to, walls, firestops, shaft enclosures, partitions, smoke barriers, floors, fire-resistive coatings and sprayed fire-resistant materials applied to structural members and fire-resistant joint systems, shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored or replaced where damaged, altered, breached or penetrated. Records of inspections and repairs shall be maintained.
SECTION 703
FIRE-RESISTANCE-RATED CONSTRUCTION

703.1 Maintenance. (continued) Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space. Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire. Openings through fire-resistance-rated assemblies shall be protected by self- or automatic-closing doors of approved construction meeting the fire protection requirements for the assembly.
SECTION 703
FIRE-RESISTANCE-RATED CONSTRUCTION

703.1 Maintenance. (continued) 703.1.1 Fireblocking and draftstopping. Required *Fireblocking* and draftstopping in combustible concealed spaces shall be maintained to provide continuity and integrity of the construction.

703.1.2 Smoke barriers and smoke partitions. Required *smoke barriers* and smoke partitions shall be maintained to prevent the passage of smoke. Openings protected with *approved* smoke barrier doors or smoke dampers shall be maintained in accordance with NFPA 105.

703.1.3 Fire walls, fire barriers and fire partitions. Required *fire walls*, *fire barriers* and *fire partitions* shall be maintained to prevent the passage of fire. Openings protected with *approved* doors or fire dampers shall be maintained in accordance with NFPA 80.
SECTION 703
FIRE-RESISTANCE-RATED CONSTRUCTION

703.1 Maintenance. The required fire resistance rating of fire-resistance rated construction (including walls, fire stops, shaft enclosures, partitions, smoke barriers, floors, fire resistive coatings and sprayed fire resistant materials applied to structural members and fire resistive joint systems) shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored or replaced when damaged, altered, breached or penetrated.

Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings, and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire.
Chapter 1, SECTION 21
Firestopping

21.15.2 The required fire resistance rating of installed firestop systems shall be visually inspected by the owner or owner’s inspection agency annually. Damaged, altered or breached firestop systems shall be properly repaired, restored or replaced to comply with applicable codes as per the guidelines of Civil defense.

21.15.3 Any new Openings made therein for the passage of through penetrants, shall be protected with approved firestop system to comply with applicable codes as per the guidelines of Civil defense.
National Fire Code of Canada

• Division B – Part 2, Building and Occupant Fire Safety

  2.2.1.2 – Damage to Fire Separations – where fire separations are damaged so as to affect their integrity, they shall be repaired so that the integrity of the fire separation is maintained…

• FCIA Manual of Practice – Appendix, Maintenance

FCIA recommends Barrier Management for Effective Compartmentation and Structural Protection
Firestop Maintenance

• **Maintenance**
  – Code Required
  – How??

• **How to keep Track – Barrier Management Initiative**
  – Paper
  – Software
  – Labeling
M–Barrier Management Systems

‘When you’re up to you’re a__ in alligators, it’s hard to remember you’re there to drain the swamp.’
Barrier Management Begins when new construction ends...
M–Barrier Management Systems Starts with CONSTRUCTION

- **NEW Buildings – 07-84-00 Specs**
  - [www.FCIA.org](http://www.FCIA.org)

- **Part I – Focus on**
  - Systems
  - Not Products
  - Manufacturers

- “Single Manufacturer to the greatest extent possible” – EJ’s
M–Barrier Management Systems
Starts with CONSTRUCTION

• NEW Buildings – 07-84-00 Specs
  – www.FCIA.org

• Part II – Qualifications
  – FCIA Member in Good Standing, AND
  – FM 4991, Standard for the Approval of Firestop Contractors, OR
  – UL Qualified Firestop Contractor Program
  – AND
  – Manufacturer Accredited, Approved, Trained
M–Barrier Management Systems
Starts with CONSTRUCTION

• NEW Buildings – 07-84-00 Specs
  – www. FCIA .org

• Part II – Qualifications – Special Inspection
  – Special Inspection Agency –
    • IAS AC 291 Accredited Special Inspection Agencies
  – Special Inspector Qualifications
    • FM Firestop Exam
    • UL Firestop Exam
    • AND
    • IFC Exam – ASTM E 3038
M–Barrier Management Systems Starts with CONSTRUCTION

• NEW Buildings – 07-84-00 Specs
• Part III – Execution
  – Special Inspection
    • ASTM E 2174 - Penetrations
    • ASTM E 2393 - Joints
M–Barrier Management Systems
Starts with CONSTRUCTION

- Reference 01-78-00 Closeout Submittals
  - 01 78 13 Completion and Correction List
  - 01 78 19 Maintenance Contracts
  - 01 78 23 Operation and Maintenance Data
  - 01 78 23.13 Operation Data
  - 01 78 23.16 Maintenance Data
  - 01 78 23.19 Preventative Maintenance Instructions
M–Barrier Management Systems
Starts with CONSTRUCTION

- Reference 01-78-00 Closeout Submittals
  - 01 78 29 Final Site Survey
  - 01 78 33 Bonds
  - 01 78 36 Warranties
  - 01 78 39 Project Record Documents
  - 01 78 43 Spare Parts
  - 01 78 46 Extra Stock Materials
  - 01 78 53 Sustainable Design Closeout Documentation
M–Barrier Management Systems Starts with CONSTRUCTION

• Why Specifications Division 01-78-00?
  – Fire Resistance Inventory REQUIRED -
  – F-113-16 – 2018 International Fire Code
  – Section 703.1 becomes 701.1
    • Fire Rated Walls & Floors
    • **Firestop Systems**
    • Fire & Smoke Dampers
    • Fire Rated Rolling & Swinging Doors
    • Fire Rated Glazing
M–Barrier Management Systems
F113-16 – Fire Resistance

• 701.6 Owner's responsibility. The owner shall maintain an inventory of all required fire-resistance-rated and smoke resistant construction, and the construction included in Sections 703 through 707 and such construction shall be visually inspected by the owner annually and properly repaired, restored or replaced where damaged, altered, breached or penetrated.
M–Barrier Management Systems
F113-16 – Fire Resistance

• 701.6, Continued…PC2

• Records of inspections and repairs shall be maintained. Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space.
703.1 Maintaining protection. Materials and firestop systems used to protect membrane- and through-penetrations in fire resistance-rated construction and construction installed to resist the passage of smoke shall be maintained.
The materials and firestop systems shall be securely attached to or bonded to the construction being penetrated with no openings visible through or into the cavity of the construction. Where the system design number is known, the system shall be inspected to the listing criteria and manufacturer's installation instruction.
M–Barrier Management Systems

- Why Manage Barriers?
- International Fire Code
- International Property Maintenance Code
M–Barrier Management Systems
ICC’s IPMC

IPMC SECTION 703

[F] 703.1 Fire-resistance-rated assemblies. The required fire-resistance rating of fire-resistance-rated walls, fire stops, shaft enclosures, partitions and floors shall be maintained.

[F] 703.2 Opening protectives. Required opening protectives shall be maintained in an operative condition. Fire and smokestop doors shall be maintained in operable condition. Fire doors and smoke barrier doors shall not be blocked or obstructed or otherwise made inoperable.

International Existing Building Code
M–Barrier Management Systems

Policies

• Barrier Management Policy
  – Inventory
  – Monitor
  – Permits
  – Management
  – Request Budget to Meet Code Requirements
  – Implement Maintenance
    • In House (Rules)
    • Outside Contractor (Rules)
Barrier Management Systems Policies

• Barrier Management Policy
  – Items to Survey
    • Fire Rated Walls and Floors
      – Breach?
      – Wall not completed at new construction?
      – Wall removed above ceiling?
M–Barrier Management Systems
Policies

• “Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile or similar movable entry to the space. [IFC 2015, 703.1]
M–Barrier Management Systems

Starts with CONSTRUCTION

• Fire Rated Walls & Floors
  – Walls - U, V 400, 900 Designs
  – Floors – P Designs
  – Calculated Fire Resistance
  – Code Defined Fire Resistance - 720
    • Firestop Systems
    • Fire & Smoke Dampers
    • Fire Rated Rolling & Swinging Doors
    • Fire Rated Glazing
M–Barrier Management Systems Operations

• Items to Survey

• Fire Doors – Annually – NFPA 80
  – Close and Latch
  – Holes
  – Attach at Frame
  – Undercut & Astragals
  – Labels Legible
  – Labels recertified, requirements of 3rd party certification agency
M–Barrier Management Systems Operations

- Firestop Systems – Not Concealed Only
- Through & Membrane Penetrations
  - Joints
    - Wall to Wall
    - Floor to Floor
    - Head – Bottom of Wall
    - Continuity Head of Wall
  - Perimeter Fire Containment
M–Barrier Management Systems Operations

• Firestop Systems – SYSTEMS
  – Visibly Comply with System
  – Visibly ‘sealed’
  – Without openings
  – Firestop Materials & Systems
  – Securely Attached
M–Barrier Management Systems

Items to Survey

Fire Dampers

• NFPA 80 –

• Initial Installation

• At 1 year, each 4 years,

• 6 years healthcare
  • Fire Dampers
  • Smoke Dampers
  • Combination Fire/Smoke Dampers
  • Ceiling Dampers
M–Barrier Management Systems

Items to Survey

• **Fire Rated Glazing**
  – Verify it’s still fire rated
  – Glazing / Frame Attachment
  – Frame attached to wall
  – Glazing Marking as Built
M–Barrier Management Systems
Items to Survey

• Fire Resistance Inventory Systems
  – Paper & Files
  – Spreadsheets
  – Software
M–Barrier Management Systems
Building Operational

• Barrier Management Policy
  – Repairs
    • As originally permitted and approved
    • As required by Fire Code, Existing Building Code
    • If SYSTEMS required, SYSTEMS REPAIRS
    • If no Systems, original materials.
    • Fire Official
    • Insurance Company
M–Barrier Management Systems

• Now it’s your building....

• Gleeson Powers Graphic
WHAT NEEDS TO BE MAINTAINED?

- Fire Resistive Wall Construction
- Fire Doors
- Fire Dampers
- Firestop Systems:
  - Joint Systems
- Hot and Cold Water Piping
- Laboratory Waste
- Medigas Piping
- Pneumatic Tubing
- Sprinkler Piping
- Rigid Electrical Conduits
- Cable Trays
- BX Cables
- Low Voltage Cables
  - Low Voltage!!!!
- and More….
M–Barrier Management Systems

• **Barrier Management**
  – Issues…Budget???
  – Other Occupancies---Big Problem
  – Constant issues
  – Control?
  – Staff?
  – Manage?
Barrier Management HUB

• The HUB is Facility Director!
• HUB Controls Actions
  – C-Suite Execs – Budgeted Yearly
  – Construction –
    • In House Crews
    • Outside Contractors
  – I-T Department –
    • In House Crews & Outside Contractors
Barrier Hub = Facility Director?

• YOU answer to…
  – Other AHJ’s
  – C-Suite
  – Occupants, Students, Faculty, Patients
  – Building Official, Fire Marshal
  – Insurance Company
  – The Joint Commission
  – CMS Inspectors
Barrier Management Policy Contents

• **Annual Line Item Budget**
• **Rules of Engagement in Contracts**
  • Internal Contracts
  • External Contracts
• **Pre Construction Meetings**
• **Barrier Warnings - Markings**
• **Violation Consequences**
• **Ongoing Management**
• **Staff - Occupant Education**
Barrier Management Policy Tool

- **Contracts = Rules**
  - Internal Contracts -
    - In House Departments similar to Outside Contractors
  - External Contracts
    - AIA Contract
    - Marked Fire - Smoke Barrier Actions
    - Barrier Permits
    - Documentation Systems
    - Report
M–Barrier Management Systems

• Barrier Inventory Elements
  – Life Safety Drawings
  – Existing Conditions Documented
  – Ongoing Survey Records
  – Deficiency Reports
  – Systems Documentation Control, Retrieval

• ALL FIRE PROTECTION FEATURES
M–Barrier Management Systems

• Barrier Repair Examples
Gypsum Wallboard
Repair Large Holes

- USG Photo
M–Barrier Management Systems

• Electronic Best Practice Elements
  – Action Oriented
    • Projects - Specifications
    • Ongoing Surveys – FCIA RPPS 2010-1
  – Action Reminders
  – In Process Status
  – Record Retrieval
Sample Permit – Area
## Life Safety Details

<table>
<thead>
<tr>
<th>LSR Det#: 001</th>
<th>Status</th>
<th>Latest Photo</th>
<th>Detail Description</th>
<th>Life Safety T#: Firestopping</th>
<th>Life Safety Sub T#: Through Wall Penetration - Firestop</th>
<th>Letters</th>
<th>Numbers</th>
<th>LSR Count</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Non-compliant</td>
<td><img src="image1.png" alt="Image" /></td>
<td>Firestopping Through Wall Penetration - Firestop</td>
<td>Firestopping</td>
<td>Through Wall Penetration - Firestop</td>
<td>WL</td>
<td>1000-1999</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>Compliant</td>
<td><img src="image2.png" alt="Image" /></td>
<td>Firestopping Through Wall Penetration - Firestop</td>
<td>Firestopping</td>
<td>Through Wall Penetration - Firestop</td>
<td>WL</td>
<td>1000-1999</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>003</td>
<td>Compliant</td>
<td><img src="image3.png" alt="Image" /></td>
<td>Firestopping Through Wall Penetration - Firestop</td>
<td>Firestopping</td>
<td>Through Wall Penetration - Firestop</td>
<td>WL</td>
<td>5000-5999</td>
<td>1</td>
<td>EZ Path</td>
</tr>
<tr>
<td>004</td>
<td>Compliant</td>
<td><img src="image4.png" alt="Image" /></td>
<td>Firestopping Through Wall Penetration - Firestop</td>
<td>Firestopping</td>
<td>Through Wall Penetration - Firestop</td>
<td>WL</td>
<td>3000-3999</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
**Corrective Action Report**

<table>
<thead>
<tr>
<th>Building/Floor/Area:</th>
<th>Life Safety Type: Firestopping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Life Safety Sub Type: Through Wall Penetration - Firestop Systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Penetration Type:</th>
<th>EVT or Condull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration Size:</td>
<td>Max 1&quot;</td>
</tr>
<tr>
<td>Annular Space:</td>
<td>MIN: 0 to .50&quot;, MAX:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Completed:</th>
<th>May-02-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classified System:</td>
<td>Survey</td>
</tr>
<tr>
<td>Survey #:</td>
<td>Survey Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deficiency Description:</th>
<th>No firestopping</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested CA Notes:</td>
<td>Install UL Listed Firestopping System at penetration/joint</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survey Notes:</th>
<th>CA Notes:</th>
</tr>
</thead>
</table>

**Survey Photo**

- **Side:** 37296
- **Photo ID:** 37296

**Corrective Action Photo**

- **Side:** 1: 3C1
- **Photo ID:** 37298
- **Photo Notes:**

- **Side:** 2: 3L1
- **Photo ID:** 37299
- **Photo Notes:**

---

05/02/2011

Gleeson Powers Graphic
Barrier Management
Policy Tool

• Pre Construction Meetings - Education
  – Barrier Markings Mean…
  – Actions when at Barriers Required...
    • Permit required – Above Ceiling, Barrier Hole…
    • Infection Control Rules
    • Healthcare facility Rules
Barrier Management Policy Tool

– Barrier Warnings on ASSEMBLIES

Barrier Management
Policy – Tools from Codes

703.7 Marking and identification. *Fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any* other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling. Such identification shall:

1. Be located in accessible concealed floor, floor-ceiling or attic spaces;
2. Be located within 15 feet (4572 mm) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition; and
3. Include lettering **not less than 3 inches (76 mm) in height with a minimum 3/8 inch (9.5 mm) stroke** in a contrasting color incorporating the suggested wording.

“FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS”
or other wording.

**Exception:** Walls in Group R-2 occupancies that do not have a removable decorative ceiling allowing access to the concealed space.
Barrier Management
Policy = Tool
Barrier Management
Policy Tool

• Violation Consequences
  – In House –
    • 2 strikes & work reassignment to cleaning…
    • Others…
  – Outside Contractors
    • 2 strikes & not allowed to work above ceilings
    • Others…
Barrier Management Policy Tool

- Find Violators....
  - Staff Awards
Barrier Management Policy Tool

• Ongoing Management
  – Engineering Staff Reviews
  – User Staff Reviews
  – Inside Construction
  – Outside Contractor
Barrier Management Policy Tool

• Education - Healthcare Staff – Simple??
  – Fire Doors & Hardware – Simple things…
    • Close & Latch
    • Holes in Door
  – Ladder = ?? Permit Sticker?
  – Fire Rated Walls - Holes
    • Accidental
    • Workers
Barrier Management Policy Tool

• Budgets…
  – Sprinkler Maintenance
  – Alarms Maintenance
  – Security
  – Fire and Smoke Resistant Assemblies
    • Doors
    • Dampers
    • Firestoppers
    • Glazing
    • Walls/Floors
“TOTAL FIRE PROTECTION”

• Effective Compartmentation
  – Fire Barriers, Fire Walls/Floors, Smoke Barriers
  – Firestopping, Fire Dampers, Swinging and Rolling Fire Doors, Fire Rated Glazing

• Detection & Alarm Systems

• Sprinkler Suppression Systems

• Education & Egress–
  – Building Owners & Managers, Building Occupants and Firefighters
“DIIM”

• Barriers are for Safety – DIIM
  • Properly *Designed* and Specified
    – *Tested and Listed Systems* – Directories,
  • Professional *Installation* - Companies
  • Properly *Inspected* – Commissioned
  • *Maintained* - Annually –
Effective Compartmentation is a SYSTEM
Contacts

Firestop Contractors International Association
Hillside, IL – +1-708-202-1108 - office
Bill McHugh – bill @ fcia.org
Barrier Management

FCIA Barrier Management Series

© FCIA 2016