FCIA ADIBC
FIRE & SMOKE PROTECTION SYMPOSIUM
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Abu Dhabi
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- UAE Fire Code Council Member
- Subcommittee Chair – Firestopping, EIFS, Curtainwall/Cladding
- Subcommittee Member – Glazing, Roofing, Smoke Control etc.
- IAS Technical Advisory Council
- FCIA Standards Committee
- UL Standards Technical Panel (STP)
INSPECTION

Special Inspection for Firestop Systems

Leading the standards of Life-safety and Property-protection...
Inspection

✓ What
✓ Why
✓ Who
✓ How
✓ When
Why Inspections?

- To comply with:
  - Code requirements – IBC Chapter 17 & UAE Fire Code
  - Construction documents – Project specs
- To minimize insurance premium
- To safeguard owner’s interest
Code Requirement?

2013 AD-IBC

- Chapter 17
  - Section 1704 – Special Inspections
  - Section 1705 – Statement of Special Inspections

2015/2016 UAE Fire Code

- Chapter 1
  - Section 3
Code Requirement?

2013 AD-IBC

1704.17 Penetration fire-stops systems, concealed draftstop, fireblock systems

- Subject periodic special inspection prior to concealment to determine compliance with the approved construction documents

- Listed systems shall be inspected for compliance with their listing

- Inspection of ‘Through-penetration’ and ‘Membrane penetrations’ by an approved inspection agency in accordance with ASTM E 2174.
Code Requirement?

2013 AD-IBC

Fire-resistant joint systems

Inspection of ‘Fire-resistant joint systems’ and ‘Exterior curtain wall/floor intersection’ by an approved special inspection agency in accordance with ASTM E 2393.
Code Requirement?

2015/16 UAE Fire Code

3.4. Inspection and Field Quality Control

3.4.1. Inspection of through penetration firestop systems shall be in accordance with ASTM E 2174, Standard Practice for On-Site Inspection of Installed Fire Stops.

3.4.2. Inspection of fire resistive joints and perimeter barriers shall be in accordance with ASTM E 2393, Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers.
Code Requirement?

2015/16 UAE Fire Code

3.4.3. Inspection shall take place in successive stages as installation proceeds.

3.4.4. Installed firestop systems shall not be concealed from view until the inspection agency has inspected and approved each installation.

3.4.5. Do not proceed with installation for the next area until inspection agency determines completed work shows compliance with requirements.

3.4.6. Work shall not be certified as completed unless approved by the inspection agency.
Code Requirement?

2015/16 UAE Fire Code

3.4.7. Inspector Qualification

3.4.7.1. A Special Inspection Agency shall be with minimum of 2 qualified Engineers with bachelor’s degree & FM/UL/ULc Firestop exam certification and 4 technicians, listed with Civil Defence based on the following qualification:

a. Accredited to IAS AC 291 criteria or an equivalent international criteria acceptable to Civil Defence.
Code Requirement?

2015/16 UAE Fire Code

3.4.7.2. Such special inspection agency shall also have minimum of 3 years of experience in firestop inspections.

3.4.7.3. Special inspection agency shall certify and signoff the firestop installations undertaken during progressive inspections at each successive stage of installations in report which shall be part of the documentation required by Civil Defence during final inspection.
Inspection Agency Summary

IAS AC 291

Special Inspection Agency

2013 Abu Dhabi International Building Code (ADIBC)

2015/16 UAE Fire & Life Safety Code of Practice


Leading the standards of Life-safety and Property-protection...
Code Requirement?

2015/16 UAE Fire Code

3.6 Civil Defence Acceptance

3.6.1. The main consultant, the firestop system manufacturer, firestop installer, and the special inspection agency shall jointly sign off the installation and provide final inspection report for Civil Defence acceptance as evidence of compliance.
Thank you!

Questions?

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