UL’s Fire Barrier Management programs

April 2020
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Bio

Ruben Sandoval, Jr.
Business Manager, UL

• 20 years of experience in safety engineering
• Bachelors of Science in Engineering
• ASHE, CASHE, FCIA, NFCA, and AZBO
William Henry Merrill
1866 – 1923

He was a skilled and highly trained Boston electrical inspector hired by the Chicago Underwriters Bureau to resolve problems with automatic fire alarms in the city of Chicago in 1893.
Building materials and suppression

UL has a rich history in fire suppression.

- The first UL Test Standard was issued in 1903 for Tin Clad Fire Doors
- UL 72 Record Protection – 1918
- UL 263 Fire Test of Building Construction – 1929
- UL 10B Fire Doors – 1942
- UL 723 Surface Burning Characteristics – 1950
- UL 790 Fire Tests of Roofing – 1958
UL operates in more than 143 countries and across more than 20 industries.

UL has helped to set more than 1,600 standards defining safety, security, quality and sustainability.

UL software is used by 10,000+ organizations in over 10 industries.

UL's sustainability certifications are referenced in 900+ sustainable product specifications or purchasing guidelines around the globe.

UL serves 1 out of 3 Fortune 500 companies.
UL Marks appear on more than 22 billion products globally.

88% of U.S. Built Environment Authorities trust and accept the UL Mark.

Brand presence and leadership.

UL has supported a century of innovation from electricity to nanotechnology.

Ul reaches more than 2 billion global consumers annually with safety messages.

U.S. consumers are familiar with the UL Mark.

3 out of 4 U.S. consumers are familiar with the UL Mark.

UL works to protect the market from counterfeit goods from life jackets to hoverboards, we assisted in seizures of more than 2.2 million products bearing a counterfeit UL Mark.

Working for a safer world since 1894.
Contents

I. Qualified Firestop Contactor Program
II. Master Audit Certificate of Compliance (MACC)
III. UL Special Inspections
Qualified Firestop Contractor Program

For more information visit www.ul.com/firestopcontractor or Ruben.Sandovaljr@ul.com 480.290.6987
UL Qualified Firestop Contractor Program

- 13 new contractors for YTD
- 91 total locations
The UL Qualified Firestop Contractor Program is an independent, 3rd party credential.

Program requirements

- Pass the UL Firestop Exam – (DRI)
- Knowledge of FCIA MOP
- Knowledge of the UL Fire Resistance Directory of UL Listed systems
- Management system requirement
  - Establish and effectively maintain a management system that meets the UL Program Requirements
Why become a UL QFCP?

• An independent, 3rd party credential that differentiates contractor firms

• This credential allows contractors to:
  • Bid projects that specify a UL or ULC Qualified Firestop Contractor
  • Increase efficiencies in operations
  • Increase confidence for customers, architects, specifiers, manufacturers and general contractors
What are the requirements?

1. Firestop industry knowledge
   a. Employ at least one Designated Responsible Individual (DRI)
      • Knowledge is demonstrated and assessed through an exam
      • Must score 80% or better on the UL Firestop Exam

2. Firestop Contractor Management System
   a. Establish, effectively implement and maintain a management system that meets UL QFCP program requirements
   b. Assessment of the management system is through:
      • Initial and annual firestop contractor office audit
      • Firestop project site audit
Value of a management system

Management system principles provide a framework for how companies operate and results in:

- Consistent and effective control of key processes and project management
- Promotion and standardization of good working practices
- Planned training and qualification of employees
- Enhanced communication, leadership, effective remote site management, accountability, contractual control and control of suppliers
Development of your management system

Critical key steps

• Identify processes needed
• Determine process sequence and interaction
• Determine effectiveness of processes
• Provide resources to support process operation and monitoring
• Create a Management System Manual to document processes including responsibilities and authorities of key staff
• Maintain control of any outsourced processes that could affect the conformity of selection and installation of firestop systems with requirements
• Monitor, measure and analyze to continually improve processes
10 Elements of the management system

1. Construction document requirements and review
2. Procurement of firestop materials
3. Storage, handling, preservation and delivery of firestop materials
4. Installation and quality assurance procedures
5. Inspection and testing
6. Control of non-conforming materials
7. Training and qualifying staff
8. Corrective and preventative actions
9. Management system monitoring and improvement
10. Documentation and record keeping
Documentation and record keeping
Documentation and record keeping

- Policy
- Procedures
- Work Instructions
- Records

3 procedures must be documented:
- Control of Non-Conforming Materials
- Corrective & Preventative Actions
- Documentation & Recordkeeping
Documentation and record keeping

Documents

Policy

Procedures

Work Instructions

Records

Detailed Steps to carry out the Procedures or Processes
Documentation and record keeping
What to expect during your audit?

- Complete quality audit at your office
- Job-site audit
Master Audit Certificate of Compliance (MACC)

For more information visit www.ul.com/macc or Ruben.Sandovaljr@ul.com  480.290.6987
Master Audit Certificate of Compliance (MACC)

- A jobsite specific certificate
- Project scope specific
- Renewable yearly (1 year expiration)
- Complies with the 2018 International Fire Code for annual maintenance for building owners
Master Audit Certificate of Compliance (MACC)

- Should be requested at the completion of any new construction project
- A copy should be provided to local jurisdictional personnel and building owners after the completion of any new construction or annual assessment
- Annual assessments certificate copy should be given to the fire marshal
- Certificate should be given to building insurer
Master Audit Certificate of Compliance (MACC)

Benefits include:

- A jobsite-specific management system audit and improved documentation
- A renewable jobsite/annual assessment-specific certificate
- Annual assessments per the 2018 International Fire Code
Master Audit Certificate of Compliance (MACC)

YoY MACCs

- MACC growth affected by COVID-19
MACC Map

* Some cities have multiple MACCs
MACC Map

* Some cities have multiple MACCs
Where to locate QFCP’s, MACCs, and Firestop Resources
Special Inspection Firestop

For more information, email fire.inspection@ul.com or call 480.290.6987.
Inspector qualifications

• 100 hours self study materials firestop inspection
• Classroom training (48-72 hrs.)
• Job site training and evaluation
• Industry exam (UL Firestop exam)
• FCIA MOP
Special inspection firestop

• Proper traceability back to inspection report
• Visual indication of installation compliance
• Proper identification of inspected system
• Ability to red-tag questionable installations
Questions?

For more information, contact Ruben Sandoval at Ruben.Sandoval@ul.com or 480.290.6987.