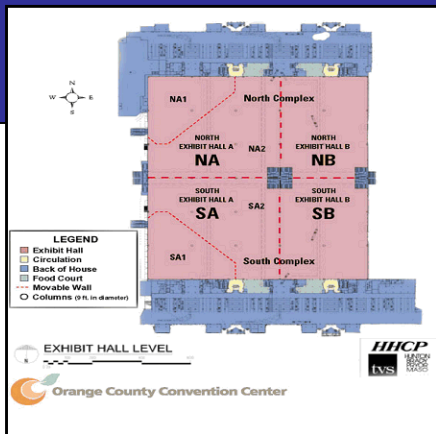


FCIA Member, FM 4991 Contractors



Graphic Credit, Orange County Convention Center

Commercial and Industrial insurance organizations, such as **Factory Mutual®** recognize that professionally installed firestopping reduces loss property, life, and business operations. The FM 4991 STANDARD was developed to "Approve" firestopping contractors. Architects nationwide have added FM 4991 into their 07840 and 07841 Specification Section Requirements. ARCOM's MasterSpec® and BSD SpecLink®, include requirements for an FM 4991 Approved Firestopping Contractor. The Architect of Record and their clients receive additional safeguard that a quantifiably qualified contractor is used on the project. Firestopping is CODE mandated work. Insist that the Building Owner, Manager, General Contractor or Construction Manager use FM 4991 Approved Contractors for safety... yours and ours.

Knowledge – FM 4991 Approved Contractors demonstrate a quantified, tested level of knowledge about firestop systems installation procedures.

Value – FM 4991 Approved Contractors use quality processes that mean a highly efficient operation resulting in lower installed costs.

Expertise – FM 4991 Approved Contractors have demonstrated expertise documented through audits at the contractor's facility and jobsite by Factory Mutual – FM Approvals.

Continued Improvement – FM 4991 Approved Contractors are challenged to improve operations though continuing education, competition as well as yearly audits by FM Approvals.

**FM – 4991
Approved Contractor**



FM 4991 Firestop Contractors

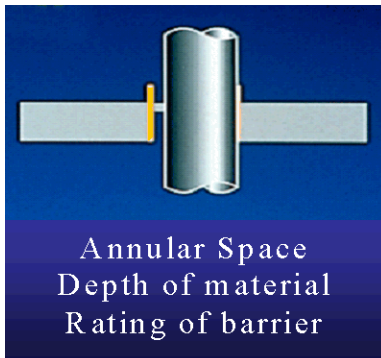
**THE
STANDARD**

FOR
FIRESTOPPING



Why FM 4991?

Firestopping is a code required discipline that currently is not licensed worldwide. That means *anybody* can install firestopping products whether they are trained, qualified or not. Firestopping products are designed to work only if they are installed to the system drawing parameters. Compartmentation and Firestopping is as important to occupants as sprinklers, detection and alarm systems.



Effective Compartmentation and Firestopping may be the only thing left protecting occupants if exits are encumbered or people immobile. And, some building types don't require sprinklers. Compartmentation and Firestopping is the first defense. Compartmentation, Detection / Alarms Training and Sprinklers save lives.

WHY NOT HAVE ALL ELEMENTS OF TOTAL FIRE PROTECTION IN TODAY'S BUILDINGS?

FCIA Membership

FCIA Members *Mean* Firestopping

- **Commitment to Firestopping Industry through Effective Compartmentation and Firestopping – Sealing Fire Resistance Rated Walls and Floors to prevent the spread of fire and smoke in buildings.**
- **Commitment to Fire and Life Safety through Education at FCIA Seminars and study of the FCIA Manual of Practice.**
- **Commitment to Fire and Life Safety through the Quality Process - FM 4991, Standard for the Approval of Firestopping Contractors, ASTM E 2174 – Standard for the Inspection of Through Penetration Firestops.**
- **Firestopping Operations Quality means less inspection, less total installed system cost.**



Life Safety



MGM Grand Hotel – 85 Dead

Picture credit – Las Vegas Fire Dept.

Many factors contributed to the vertical smoke spread, including the following:

- Unprotected seismic joint shafts and elevator hoistways.
- Insufficient fire resistance rated construction used in interior stair enclosures.
- Exposure of exit stair and exit passageway spaces to casino level plenum air.
- Heating, ventilating and air conditioning systems with fire dampers that did not operate.