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February 5, 2003

Tremco Inc.
Mr. John G. Basch
2628 Pearl Road
Medina, OH 44256

Subject: Through-Penetration Firestop Systems Installed in Hollow-Core Precast Concrete Units

Dear Mr. Basch:

This will confirm our conversation on February 4, 2003 relative to the requirements used by Underwriters Laboratories Inc. when making engineering judgments on through-penetration firestop systems installed in hollow-core precast concrete units.

There are two criteria which are looked at when judging acceptability of firestop systems in hollow-core floors. First, the system must be able to prevent the unchecked flow of hot gases into the cores. This can be accomplished through the use of firestopping products at the lower face shell of the hollow-core units or through plugging the cores for a minimum depth of 4 in. In either case, we would require that data be available to prove the material(s) utilized would stay in place for the entire F Rating period of the system. Second, we require that structural integrity of the floor assembly be maintained. This is accomplished by limiting the size of the opening to 7 in. diameter, or 7 in. by 7 in. We also have a general statement on Page 1404 of the 2002 UL Fire Resistance Directory, Volume 2 that states structural integrity of a floor must be maintained when providing openings. This is particularly true for hollow-core units. It is expected that the design professional would review the structural integrity issue at some time during the project to assure this requirement is met.

Should you require any additional information, please feel free to contact the undersigned.

Very truly yours,

Reviewed by:

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