

E.F. SIEGFRIED CO., INC.

"HOT AIR" NEWSLETTER

For most of you this is the second newsletter you've received, but for many of you this is your first edition, so WELCOME! This issue will focus more on application issues rather than new product introductions. Read on!

Please distribute to all mechanical designers



This issue's main topic is **fire dampers**. There is often some confusion on the specification of fire damper sizes. Each damper manufacturer has their own **single-section size limit** and **multiple-section size limit**. These **limits are not dictated by UL555 codes** directly, but rather the size limitations of the UL test facility itself and the sizes of each fire damper that the manufacturer chooses to submit to UL for testing. The size limit for a type "A" fire damper is usually **larger** than the size limitations for "B" and "C" style fire dampers. This is because the **"B" and "C" style fire dampers are derived from the "A" fire damper** (example: a 12" high "A" damper will be configured to make a 10" high "B" damper or a 9" high "C" damper). Therefore, it is important to check the catalog cuts before specifying a size, especially if you are dealing with larger duct sizes or calculating pressure losses based on no obstructions.

With the use of **16 ga. galvanized steel mullions**, the opening in a fire rated wall is now "unlimited" insofar as the mullions separate one big opening into several smaller openings that fire dampers can be placed in (*each of these smaller openings cannot exceed the manufacturer's multiple-section size limit*). Another thing to keep in mind is that **UL only has tests for 1½ hour-rated fire dampers and 3 hour-rated fire dampers**; there is no such thing as a UL listed 2 hour or 4 hour fire damper (by the way most 1½ hour-rated fire dampers and 3 hour-rated fire dampers are the exact same dampers, only the UL label is different!).

Finally, if you are using **combination fire/smoke dampers**, you should always specify factory assembled fire/smoke dampers w/sleeves and actuators because the UL tests include **cycling, operation, dynamic closure, and leakage tests** that insure that this critical life safety device is properly assembled and will function when necessary. By June 2000, UL will require that the **actuator be factory installed**. Your specification should include the damper's **leakage classification** (see UL555S) as well.



By the time you receive this, most of you will have recently seen me distributing our fan catalog, **American Coolair/ILG**. All of you should have our **Tuttle & Bailey, Cesco, Rink, and Markel** catalogs. If you do not please call me at the number below and I'll send one out to you.



Since we are approaching the year 2000 all too quickly, we felt it a good time to point out that **Tuttle & Bailey's ToolBox I VAV box selection program is Y2K compliant**.

Keep a lookout for our next installment!

If you have any questions, call me at 215-887-7244.
Robert L. Kugler

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