

**SIMPSON**



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August 13, 2002

Bob Dwyer  
Manager of Training  
Bacharach Institute of Technical Training  
Bacharach, Inc.

Bob;

We at Simpson Dura-Vent can appreciate the need of on-site-testing for combustion gas and draft pressure on gas burning appliances by qualified technicians. We understand that the testing procedure would require the penetration of the inner sleeve of double wall (B-Vent) pipe to insert the probe of the testing equipment into the flue gas area.

To reseal the penetration that is required in a piece of double wall (B-Vent) pipe for combustion gas and draft pressure testing use the following procedures.

1. The hole in the inner sleeve should be no bigger than necessary to insert the probe. After testing, apply high temperature non-hardening sealant to plug the hole.
2. The hole in the outer sleeve can be slightly larger than the hole in the inner sleeve to accommodate the application of the inner sleeve sealant. The outer sleeve should be sealed with a combination of high temperature non-hardening sealant applied to seal the hole and then a patch of aluminum tape applied over the sealant.

Sincerely,

Dale Menges  
Staff Engineer  
Simpson Dura-Vent



December 9, 2002

Bob Dwyer  
Manager of Training  
Bacharach Institute of Technical Training  
Bacharach, Inc.

Dear Bob:

Metal-Fab Inc. understands the need for testing of combustion gas and draft pressure on gas burning appliances by qualified technicians. Metal-Fab Inc. also understands that the testing procedure would require the penetration of the inner sleeve of the B-Vent pipe to insert the probe of the testing equipment into the flue gas area.

Under the terms of Underwriters Laboratories, Inc. Listing, Metal-Fab Inc. does not recommend this practice with Type B gas vent. However, where it is acceptable by the local code authority Metal-Fab has no objection to a qualified person resealing the penetration, as long as the following conditions are met:

1. The hole in the inner sleeve is no bigger than necessary to insert the probe. After testing, apply a high temperature non-hardening sealant to plug the hole.
2. The hole in the outer sleeve can be slightly larger than the hole in the inner sleeve to accommodate the application of the inner sleeve sealant. The outer sleeve should be sealed with a combination of high temperature non-hardening sealant applied to seal the hole and then a patch of aluminum tape applied over the sealant.

Sincerely,

Todd Bridge  
Chief Design Engineer

August 13, 1993

Mr. David Johnston  
3761 Kister Road  
Wooster, OH 44691

**SUBJECT: Drilling Holes in Type B-Vent**

Dear Dave:

After discussing this issue with other B-Vent manufacturers, we share the same thoughts on the drilling of holes in B-Vent.

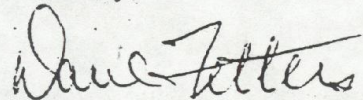
Obviously, we prefer that this practice not be done on B-Vent. Since it apparently is, we feel that sealing the holes in both the inner and outer is desirable. We cannot assume that in all cases the draft is negative and under varying operating parameters will always remain so. Likewise, to assume there may never be a condensate condition that could allow moisture to escape through the hole in the inner to the space between the walls or to leak out of the vent and drip onto the floor would be a mistake.

The difficulty in sealing the hole in the inner liner is a major consideration, but sealing only the hole in the outer wall accomplishes nothing. Sealing only the hole in the liner is acceptable.

Using a quality grade of silicone RTV like DOW 732 or similar to seal the inner hole is a preferred method. The hole in the outer could also be sealed using the same material or something like silver tape.

We don't believe that a single hole through B-Vent for purposes of measuring draft would affect our UL listing provided that a sincere attempt to seal the hole afterward is made.

Sincerely,



David M. Fetters  
Manager, Engineering Services

DMF:sg

# FAX COMMUNICATION

FROM

## SELKIRK METALBESTOS R & D

PLEASE CALL IF ALL PAGES NOT RECEIVED

TO: Bacharach, Inc.

DATE: 9/27/02

ATTENTION: Bob Dwyer, Dir. Of Training

TOTAL # OF PAGES: 1

FAX #: 406-752-5793

HARDCOPY TO FOLLOW: NO

FROM: Karen Marchand

Technical Support Specialist

PHONE: 740-385-5666 / 800-848-2149 X 212

FAX: 740-385-2483

SUBJECT: Test holes in Type B gas vent

Bob,

We concur with your observations that to verify gas fired appliances are operating as designed and engineered, testing of the flue gases may need to be done. Also, we agree that to accomplish this may require penetration of the Type B gas vent walls for test ports near the outlet of the appliance – in the equipment room.

You have asked for our comments (as manufacturers of Type B gas vent) regarding this breach of the inner liner, for testing purposes, along with any necessary actions to take after tests are completed.

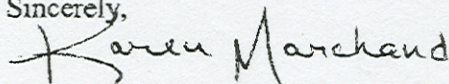
Our installation instructions clearly state that penetration of the inside wall of our Type B gas vent needs to be avoided. We stand by that policy statement – as a general rule. On the other hand, we do understand the importance of testing for combustion and draft (pressure differential) by qualified technicians. We recognize this can require test ports being drilled for insertion of small testing probes through both the outer and inner liners of double wall (B vent) pipe.

For liability purposes and under the terms of our Underwriters Laboratories, Inc. (UL) Listing (safety certification) we cannot / do not formally recommend or condone this practice with our Type B gas vent. However, where it is acceptable to the local code authority, we have no objection to a qualified person doing so, as long as the following conditions are met. The holes are small (just large enough to accommodate the small probes), are prepared carefully (without damaging the walls of the B vent), and the holes are closed off afterward.

Others have suggested that if the inner wall is penetrated, the opening should be sealed, by applying high temperature, non-hardening sealant. It has also been suggested that the hole in the outer liner can be sealed with the same type of sealant, then also covered with aluminum tape. We have no objections to such actions.

With holes prepared carefully for testing, then closed off upon completion, we are of the opinion the performance / effectiveness of the product would not be compromised.

Sincerely,



Technical Sales Support Specialist