

AUTHORIZATION #90-19-147
BY THE 20 February 1991
BUILDING MATERIALS EVALUATION COMMISSION

IN THE MATTER OF Section 18 (4) (b) of the Building Code Act,
Revised Statutes of Ontario, 1980, Chapter 51

AND IN THE MATTER OF the Applicant:

Pabco, A Division of Fibreboard Corp.
1110 - 16 Road
Fruita, Colorado, U.S.A.
81521

ON THE SUBJECT OF:

Pabco grease duct enclosures for insulation and fireproofing system; for commercial/institutional kitchen exhaust metal duct systems, to protect adjacent combustibles from ignition in the event of a grease fire within the duct.

THE COMMISSION HEREBY AUTHORIZES to the applicant the use of the aforementioned matter subject to the following terms and conditions:

1. Where in the opinion of the COMMISSION negative experience indicates that this authorization should be amended and/or terminated, the COMMISSION may by written notice to the applicant or the agent at the above address, withdraw the authorization and no further installations shall be made subsequent to the effective date of the termination as set out in the written notice.
2. The COMMISSION does not assume or undertake to discharge any responsibility of the applicant to any other party or parties and does not in any manner warrant or guarantee the correctness and/or the successful performance of the subject matter.
3. This AUTHORIZATION may be mentioned in promotional and/or advertising material, however, it is not to be used expressly or impliedly as an endorsement of any product, material, technique or design which is described herein.

4. This AUTHORIZATION is not transferable to any other party. If the APPLICANT makes any revision or change to the address or the materials, technique, design, system and/or use of the same shall automatically be cause for termination, unless prior approval is granted for such revision or change by the COMMISSION.
5. Construction and installation shall be in conformance to all applicable governing legislation except that compliance with the terms and conditions described herein shall be deemed not to be a contravention of the Building Code. Where applicable any change in the Act, Regulation or Code provisions shall be grounds for re-evaluation by the COMMISSION.

AND SPECIFIC REQUIREMENTS

6. Except as authorized herein all applicable requirements of the Ontario Building Code Act, Chapter 51, R.S.O. 1980, Ontario Regulation 413/90 as amended or reenacted shall be met. A valid copy of this authorization shall be attached to the application for a building permit and a similar copy shall be posted and maintained on the site of the construction with the building permit.
7. The applicant shall be wholly responsible for the complete discharge of each paragraph of this authorization.
8. Pabco Super Firetemp "L" and/or "M" is an asbestos free inorganic mineral fiber press molded xonotlite calcium silicate insulation board and is noncombustible when tested in accordance with Standard CAN 4-S114. Each board or bundle of boards shall be labelled as listed by Underwriters Laboratories of Canada (ULC).
9. The maximum dimensions of the kitchen exhaust metal duct shall be 1220 mm x 1220 mm (48 in. x 48 in.) and the Firetemp board shall be the minimum thickness of 57 mm (2¼ in.) as per the ULC label/listing.
10. Where the Firetemp enclosure is constructed/installed and passes through combustible or noncombustible floors, walls or partitions the clearance may be;
 - (a) zero between the kitchen exhaust duct and the inner face of the Firetemp, and
 - (b) zero between the outer face of the Firetemp and the combustible or noncombustible construction, and

- (c) installed in conformance with this authorization, the manufacturer's recommended installation instructions, and where applicable the NFPA 96-1987 or latest amended version.
11. Where a building assembly is required to have a fire resistance rating the following may be used for grease duct enclosures;
- (a) Firetemp "L" 57 mm (2¼ in.) thick for 1 hour rated assemblies and/or
 - (b) Firetemp "M" 76 mm (3 in.) thick for 2 hour rated assemblies.
12. (a) Horizontal duct Firetemp enclosures shall be continuous and adequately supported from a conventional trapeze hanger arrangement at a maximum of 1.22 m (4 ft.) centre to centre apart and anchored to the building structure, and
- (b) vertical duct Firetemp enclosures shall be continuous and adequately supported at the bottom base of such runs and at each story with metal collars attached to each side of the duct, and
 - (c) provided that the building structure, hangers, anchors and collars are capable of supporting the weight of such a load and compliance is made to the manufacturer's recommended installation instructions.
13. All joints between the Firetemp board(s) shall be cemented by buttering both mating surfaces with a minimum of 3.15 mm (1/8 in.) thick Pabco Super Calstick adhesive immediately before joining the boards attached one to the other. In addition where Firetemp boards meet at right angles; fastening shall be provided with minimum of 127 mm (5 in.) type S dry wall screws at a maximum of 203 mm (8 in.) on centres. The adhesive shall be kept from freezing until after it dries.
14. Firetemp shall be in accordance with manufacturer's recommended installation instructions for;
- (a) protection from high humidity areas and freeze\thaw conditions, and
 - (b) duct cleanout access covers, and
 - (c) clearance between the Firetemp and the metal duct and at the end of all straight runs to allow for expansion of the metal duct within the enclosure, and

- (d) protection of the enclosures when used in an exposed area that may be subject to impact to avoid incidental damage to the enclosure system.
15. Applicators shall be instructed by Pabco and/or their agent on the manufacturer's recommended installation instructions and Pabco shall issue identification cards to only those applicators who have been instructed.