

**BUILDING MATERIALS EVALUATION COMMISSION
(BMEC)
AUTHORIZATION REPORT**

DATE OF AUTHORIZATION
BMEC REFERENCE
BMEC APPLICATION #

May 24, 2001
BMEC # 01-05-257
BMEC # A 2001-08

GEORGIA-PACIFIC CANADA, INC.
Horizontal Cavity Shaftwall System

1. Applicant

Georgia-Pacific Canada, Inc.
350 Argyle Street North
Caledonia, ON
N3W 1M2

Tel: 770. 987. 5190 X 207
Fax: 770. 981. 6356

2. Manufacturing Facilities

Georgia-Pacific Canada, Inc.
350 Argyle Street North
Caledonia, ON
N3W 1M2

122 Old Dover Road
Newington, New Hampshire
USA
03801

3. Description

Georgia-Pacific Canada, Inc. horizontal cavity shaft wall system, is gypsum board with steel studs, channels and runners forming an assembly having a 2 hour fire-resistance rating for metal duct enclosures or ceiling membranes.

4. Authorization Requested

The applicant sought authorization for the use of the Georgia-Pacific Canada Inc. horizontal cavity shaft wall system as an assembly having a 2 hour fire-resistance rating for metal duct enclosures or ceiling membranes.

5. Assessment

Reports and assessments provided by the applicant show that if the Georgia-Pacific Canada Inc. horizontal cavity shaft wall system is designed, performance tested and installed in accordance with the manufacturer's instructions and limitations and the specific terms and conditions stated in this Authorization, the level of performance required by the Ontario Building Code will be provided.

Reports submitted and reviewed include the following:

1. Test Report WH1-495-PSH-0196 & 0197.
2. Installation Instructions.
3. ICBO ES ER No. 2541.
4. ULC Label Program.
5. ITS/WHI Label Program.

6. Authorization

The applicant's design has been tested by an approved and recognized testing and inspecting agency. However, as outlined in Section 2.3. of the Ontario Building Code this type of installation is required to be designed and reviewed by an architect or a professional engineer experienced in the design of the structural or mechanical systems for building listed in Ontario Building Code Sentence 2.3.1.1.(1).

The Georgia-Pacific Canada, Inc. horizontal cavity shaftwall system is authorized for use as an assembly having a 2 hour fire-resistance rating for metal duct enclosures or ceiling membranes subject to the following terms and conditions:

A. SPECIFIC TERMS AND CONDITIONS:

1. This system shall be constructed as a non-load bearing assembly. This system shall be supported by construction having a fire-resistance rating of not less than what is required for the horizontal cavity shaftwall system.
2. The maximum span for this system shall be 2.18 m and the maximum of 2 hour fire-resistance rating from either side as determined on the basis of test results with ASTM E-119 and CAN4-S101 by Wamock Hersey International Inc.: File No. WH1-495-PSH-0196 and 0197, Job No., 50611-C7-043170, date tested 5th and 6th January 1993.
3. This horizontal cavity shaftwall system consists of at least 25.4 mm thick Fireguard Shaft Liner TM (Type X shaftliner) and 12.7 mm Fireguard gypsum board. The liner and panels shall be fitted and fastened with C-T studs, steel runners, drywall screws, anchors, trim and sealant as per manufacturer's recommendations.

4. The manufacturer's detail drawings are contained in the 03/ 97 publication by G-P Gypsum Corporation, "**2-HR. USES FOR HORIZONTAL MEMBRANES**".
5. Any and all the above data, details and tests shall be made available to any and all parties responsible for the design, detail, construction, installation and inspection of each installation.

B. GENERAL CONDITIONS

1. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
2. The Applicant named in Part 1 hereof shall promptly notify the BMEC of:
 - (a) the failure of the Applicant, or of the material, system or building design that is the subject matter of this Authorization, to comply with any of the terms and conditions set out in 6. A. above; or
 - (b) the occurrence of any of the events described in Conditions 6. B. 4. (a) and (b) (ii) below.
3. The BMEC may amend or revoke this Authorization where it determines that:
 - (a) any change has been made to:
 - (i) the material, system or building design that is the subject matter of this Authorization;
 - (ii) the address of the applicant specified in Part 1 of this Authorization; or,
 - (iii) the ownership of the applicant specified in Part 1 of this Authorization.
 - (b) the use of the material, system or building design authorized herein;
 - (i) does not comply with the Building Code Act, 1992 or any relevant legislation as they may be amended or re-enacted from time to time; or

- (ii) provides an unsatisfactory level of performance, in situ.
- (c) the Applicant, or the material, system or building design that is the subject matter of this Authorization, has failed to comply with any of the terms and conditions set out in this Authorization; or
- (d) any Ontario Building Code provision relevant to this Authorization has been amended or remade.

Dated at Toronto this 24th day of May, 2001.

BUILDING MATERIALS EVALUATION COMMISSION

Rashmi Nathwani, Chair