

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

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**THERMAL HOMES DOUBLE WALL CONSTRUCTION**

Date of Authorization: September 11, 1980

Revised on February 23, 2012 to reflect new contact information

**BMEC REFERENCE: BMEC-80-01-023**

**IN THE MATTER OF** Section 18 (4) (b) of the Building Code Act, 1974

**AND IN THE MATTER OF** an application by:

John Hix Architect Ltd  
5831 6<sup>th</sup> Line  
RR#3  
Tottenham, Ontario, L0G 1W0

Tel: 905 729 3364

Web: [www.johnhixarchitect.com](http://www.johnhixarchitect.com)

**ON THE SUBJECT OF:**

Thermal Homes and the use of double wall construction for heating energy saving.

**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. A continuous Fire Stop Flap on Fusible Link is positioned at the bottom of the north double wall space as per detailed sketch.
7. There is to be no combustible structural members, horizontal or vertical, in the north double wall space.
8. 3/8" gypsum board is applied to the outer surface of the inner wall.
9. The inner wall is filled with a minimum of 3-1/2" of fibreglass insulation with 1/2" gypsum board on the inside surface.
10. The normal Fire Stops are provided at the junction of the floors and ceiling and all inner walls as required by the Ontario Building Code.
11. Product of combustion detectors are placed, one in the crawl space, one in the attic space and the normal number required internally in the dwelling. These detectors, while giving alarm to the occupants, are also inter connected to shut down the fan in the attic space.
12. A back draft damper is installed on the fan to stop the convective flow should a fire occur.
13. There is an access panel to the attic space and an access panel in the gypsum board and stud partition that divides the attic space into two compartments.

14. The summer attic vents capable of venting each side of the attic stud partition and at each end of the cable are opened when the heating season is over. This allows air warmed in the sun room to flow to the outside by natural convection. The doors are opened to the outside during this period. At the end of the summer these attic vents are closed.
15. Insulation and Vapour Barrier. The outer envelope roof is filled with fibreglass insulation and fitted with four mil vapour barrier is lapped and taped. The vapour barrier and insulation are fully accessible for inspection. The house shall be fitted with exhaust ducts and fans for all kitchen and bathrooms.
16. All applicable aspects of the Ontario Building Code shall be complied with except as authorized above.

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