

March 5, 1998

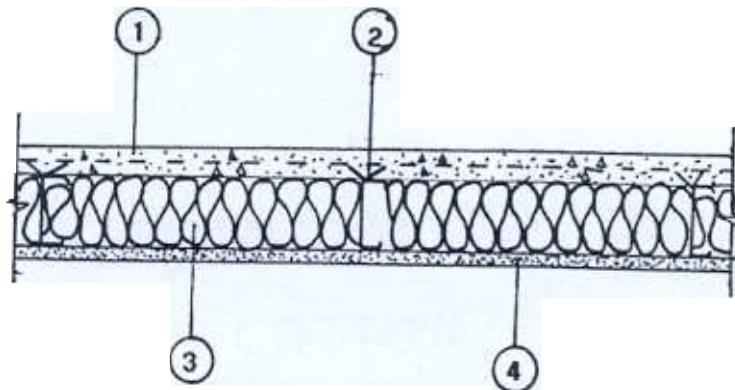
Composite Building Systems Incorporated  
P.O. Box 1486  
La Canada, California  
U.S.A. 91012

Attention: Paul M. Clark, Jr.

Dear Sir:

**Re: One Hour Rated Exterior Wall Design for Chevron Corporation, Food Mart, Vista, CA**

The following exterior wall design using Composite Building Systems Incorporated concrete/steel stud wall system will provide a one hour fire resistance rating, load bearing, in accordance with ASTM E-119 and the Uniform Building Code requirements. This determination is based on our experience in testing gypsum wallboard and similar concrete wall assemblies.



1 **Exterior Concrete** - Minimum 2 in. thickness normal density concrete (2800 PSI @ 28 days) reinforced with 6 in. by 6 in., 2.9 by 2.9 welded wire fabric mesh.



2 **Composite Steel Studs** - "MetalCrete™" minimum 18 gauge, 4 in. depth or larger galvanized steel studs and proprietary composite connectors located 24 in. on centres maximum.



3 **Insulation** - Fibreglass batt insulation filling stud cavities.



4 **Gypsum Wallboard** - 5/8 in. Type X gypsum wallboard, installed vertically and fastened with 1-1/4 in. screws located 8 in. on centres. All joints and screw heads to be taped and filled.

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**Intertek Testing Services NA Ltd.**

211 Schoolhouse Street, Coquitlam, BC V3K 4X9 Canada  
Telephone 604-520-3321 Fax 604-524-9186 Home Page [www.worldlab.com](http://www.worldlab.com)

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This design is valid for the site mentioned and other similar projects where the maximum load shall be in accordance with Composite Building Systems Incorporated structural design specifications.

Yours truly,

**INTERTEK TESTING SERVICES NA LTD.**

**Warnock Hersey**

A handwritten signature in black ink, appearing to read 'M. van Geyn', is written over the typed name.

Michael van Geyn, A.Sc.T.

Manager

Fire Testing Laboratory

MVG/gr

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