Office *of the* Fire Commissioner

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REQUEST FOR EVALUATION OF AN ALTERNATIVE SOLUTION

SECTION A – PROJECT INFORMATION

Project Information	Name of Building	Group (select one)	Division (select one)	Occupancy
	Building Address	Town/Community & Postal Code		Legal Description
	Work Description			
Owner	Name	Company		Phone No.
	Address	Town/Community & Postal Code		Email Address
Design Prof.	Name	Company		Phone No.
	Address	Town/Community & Postal Code		Email Address

SECTION B – SUBMISSION REQUIREMENTS

A REQUEST FOR EVALUATION OF AN ALTERNATIVE SOLUTION will only be considered if ALL of the items listed below are submitted.	**(OFC Use Only)** Document Verification		
Background	**Yes**	**No**	**Inc**
1) Description of the proposed Alternative Solution and reasons for deviating from the Accepted Solutions	☐	☐	☐
2) Qualifications of the Design Professional(s) responsible for the Alternative Solution	☐	☐	☐
Accepted Solutions that are being substituted	**Yes**	**No**	**Inc**
3) Applicable Division B provisions and sections of referenced standards	☐	☐	☐
4) Objectives and Functional Statements of the applicable Accepted Solutions	☐	☐	☐
5) Intent Statements of the applicable Accepted Solutions	☐	☐	☐
6) Evaluation of Performance Levels of the Accepted Solutions	☐	☐	☐
Alternative Solutions	**Yes**	**No**	**Inc**
7) Evaluation of Performance Levels of the proposed Alternative Solutions	☐	☐	☐
8) Special maintenance or operational requirements	☐	☐	☐
9) Assumptions, limiting or restricting factors	☐	☐	☐
10)Testing procedures, engineering studies, or building performance parameters	☐	☐	☐
Assessment	**Yes**	**No**	**Inc**
11) Tabular Comparison of Performance Levels of the Alternative Solutions vs. Accepted Solutions	☐	☐	☐
12) Other Supporting Documents (see Section D for examples)	☐	☐	☐

SECTION C – DECLARATION OF THE DESIGN PROFESSIONAL

I, proponent for the Alternative Solutions, certify that:

a) the information and supporting documents contained in this application to be true to the best of my knowledge,
b) the proposed Alternative Solutions will achieve the same level of performance by the applicable Accepted Solutions in accordance with Division A, 1.2.1.1.(1)(b), and
c) the proposed Alternative Solutions are specific to this project and is not considered to establish a precedent for acceptance of similar alternative solutions on other projects.

_____ Printed Name & Signature

_____ Date

SECTION D – GENERAL INFORMATION

This section is intended to provide assistance in the completion of this application form. Please read this information thoroughly when completing this application.

SECTION A – PROJECT INFORMATION

This section is intended to provide general information on the specific project being applied for. The information in this section is required in order for a Request for Evaluation of an Alternative Solution to be reviewed by the Codes & Standards Section.

- ✓ **WORK DESCRIPTION** – Provide a brief description of the scope of work, including the type of occupancy and construction type of building to be constructed or altered.
- ✓ **OWNER & DESIGN PROFESSIONAL** – All applications for Alternative Solutions shall be signed and sealed by either an architect or engineer licensed to practice in the Province of Manitoba. An owner or contractor may apply for an alternative solution; however the required documentation must be prepared by an architect or engineer. Where the design of a building includes proposed alternative solutions that involve more than one person taking responsibility for different aspects of the design, the applicant for the permit shall identify a single person to co-ordinate the preparation of the design, Code Analysis and documentation referred to in Subsection 2.3.1. of Division C.

SECTION B – SUBMISSION REQUIREMENTS

This section is intended to provide the applicant and design team with information regarding the minimum amount of supporting documentation required with the Request for Evaluation of an Alternative Solution. The Codes & Standards Section reserves the right to request further information during review in support of any proposed alternative solution.

1) **DESCRIPTION OF THE PROPOSED ALTERNATIVE SOLUTION** – Provide a description of the Alternative Solution including reduced floor layouts showing the extent and location of the Alternative Solution, and reasons for deviating from the Accepted Solutions.
2) **QUALIFICATIONS OF THE DESIGN PROFESSIONAL** – Provide information about the qualifications, experience and background of the person(s) taking responsibility for the Alternative Solution.
3) **APPLICABLE DIVISION B PROVISIONS** – Include sections of referenced standards cited in the applicable Division B provisions
4) **OBJECTIVES & FUNCTIONAL STATEMENTS** – Identify the objectives and functional statements associated with the applicable Accepted Solutions as per Attribution Tables of Division B.
5) **INTENT STATEMENTS** – Identify the intent statements associated with the applicable Accepted Solutions as per:
   a. NBC - http://codes-guides.nrc.ca/IA/10NBC/intentframe.html
   b. NFC - http://codes-guides.nrc.ca/IA/10NFC/intentframe.html
   c. NPC - http://codes-guides.nrc.ca/IA/10NPC/intentframe.html
6) **EVALUATION OF PERFORMANCE LEVELS OF THE ACCEPTED SOLUTIONS** – Describe the performance levels that the MBC is attempting to achieve with the referenced requirements in Division B.
7) **EVALUATION OF PERFORMANCE LEVELS OF THE PROPOSED ALTERNATIVE SOLUTIONS** – Provide a Code analysis outlining the analytical methods and rationales used to determine that a proposed alternative solution will achieve at least the level of performance required by 1.2.1.1.1(1)(b) of Division A. The information shall be in sufficient detail to convey the design intent and to support the validity, accuracy, relevance and precision of the Code Analysis.
8) **SPECIAL MAINTENANCE OR OPERATIONAL REQUIREMENTS** – Provide information concerning any special maintenance or operational requirements, including any building component commissioning requirements, that are necessary for the alternative solution to achieve compliance with the MBC after the building is constructed.
9) **ASSUMPTIONS, LIMITING OR RESTRICTING FACTORS** – Identify any assumptions, limiting or restricting factors that will support a Code compliance assessment.
10) **TESTING PROCEDURES, ENGINEERING STUDIES OR BUILDING PERFORMANCE PARAMETERS** - Identify any testing procedures, engineering studies or building performance parameters that will support a Code compliance assessment.
11) **TABULAR COMPARISON OF PERFORMANCE LEVELS** – Compare the performance levels of the Alternative Solutions vs. Accepted Solution.

    For example:

	Required Performance Levels
12.7 mm gypsum board as fire block material (the accepted solution)	Fire blocks shall remain in place and prevent the passage of flames for not less than 15 min when subjected to CAN/ULC-S101, “Fire Endurance Tests of Building Construction and Materials”. 3.1.11.7(2)
11 mm thick new proprietary material (the alternative solution)	The material remained in place and prevented the passage of flames for 20 mins when it was subjected to CAN/ULC-S101.

12) **OTHER SUPPORTING DOCUMENTS** – Provide other information or items that may be helpful in the review of the proposed Alternative Solution, such as engineering analysis, mathematical modelling, peer review, published standards not cited in the Code, product or material test results, evaluation of scenarios, previous approvals from other authorities, risk analysis, etc.

SECTION C – DECLARATION OF THE DESIGN PROFESSIONAL

- ✓ **DECLARATION OF THE DESIGN PROFESSIONAL** – A statement by the design professional that the proposed Alternative Solutions meets the intent of the Code and it is specific to this project/design and that it is not seen as precedent setting for future developments or if building design conditions change in the future.

APPENDIX

- ✓ **LETTER OF CERTIFICATION FOR COMPLETION OF ALTERNATIVE SOLUTION** – To be submitted to the Office of the Fire Commissioner before final inspection.

Please contact the Codes & Standards Section at 204-945-3322 for any questions regarding this application form.

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LETTER OF CERTIFICATION FOR COMPLETION OF ALTERNATIVE SOLUTION

(This letter must be submitted after completion of the Alternative Solution but prior to final inspection by the Office of the Fire Commissioner.)

To: Chief Building Official
Codes & Standards Section
Office of the Fire Commissioner

Re: Letter of Certification for Completion of Alternative Solution

Building Permit No.	OFC Alternative Solution Reference No.		Date
Name of Building	Group (select one)	Division (select one)	Occupancy
Building Address	Town/Community & Postal Code		Legal Description

I hereby give assurance that:

- ☐ I have fulfilled my obligations for field review as required for the project as outlined in the previously submitted Letter of Assurance: Schedule A (Part A and B);
- ☐ I am a registered professional who is registered in the Province of Manitoba as a member in good standing in the Manitoba Association of Architects or the Association of Professional Engineers and Geoscientists of Manitoba;
- ☐ I, (or a suitably qualified person reporting to me, has) have completed periodic reviews of the project at appropriate stages of construction;
- ☐ In my professional opinion, the Alternative Solutions have now been completed and installed in a satisfactory manner. Therefore, we give our assurance that the Alternative Solutions, as mentioned in our report, have been provided as intended for this project;
- ☐ I am not aware of any deficiencies or I have reported any deficiencies to the Authority Having Jurisdiction that would compromise compliance with the Objective, Functional and Intent Statements of applicable Accepted Solutions.

Proponent / Design Professional:

Name _____

Company _____

Address _____

Phone _____

Fax _____

Email _____

Signature _____

(Affix professional seal)