

2. STRUCTURAL DESIGN SUMMARY **PROJECT:** _____

Structural (MBC Part 4) – For all permits and permit stages, this page MUST be FULLY completed.

MBC Section 4.1 – Structural Loads and Procedures

- a. Design loads indicated on drawings, snow, live, wind, etc. (Note: see Subsection 5.2.2) Yes
- b. Other effects/loads indicated on drawings Yes

MBC Section 4.2 – Foundations

- a. Subsurface investigation (soils) report included Yes No

MBC Section 4.3 – Design Requirements for Structural Materials

Material reference standards indicated: (check **all** applicable references)

- a. Wood: CSA 086, "Engineering Design in Wood"
- b. Masonry: CSA S304.1, "Design of Masonry Structures"
- c. Concrete: CSA A23.3, "Design of Concrete Structures"
- d. Steel: CAN/CSA S16, "Limit States Design of Steel Structure"
- e. CSA S136, "Cold Formed Steel Structural Members"
- f. Others – if applicable

Shop Drawings (Div.C-2.2.7.3.)

Note: Documents listed below will be submitted prior to installation, if applicable

- | | Yes | N/A |
|--|--------------------------|--------------------------|
| a. Rigid steel frame, including design summary sheet | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Open web steel joists | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Structural connections | <input type="checkbox"/> | <input type="checkbox"/> |
| d. I-Joists, open-web wood joists, etc. | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Roof trusses, including girder trusses | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Glulam/Structural Composite Lumber (SCL) beams | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Hollow-core slabs | <input type="checkbox"/> | <input type="checkbox"/> |
| h. Pre-cast structural members | <input type="checkbox"/> | <input type="checkbox"/> |
| i. Stairs, handrails and guards | <input type="checkbox"/> | <input type="checkbox"/> |
| j. Others – if applicable | <input type="checkbox"/> | <input type="checkbox"/> |

Professional Certificate

This certificate is both applicable and limited to the scope of work defined in the plans and drawings under my seal and signature.

In submitting sealed plans for demolition or construction associated with this project, I am making the following statements:

- I am an architect or engineer entitled to practice as such in the Province of Manitoba and am competent to design and review the plans submitted under my seal.
- I am aware that the City of Winnipeg will rely upon the plans signed and sealed by me and upon this certificate, and will not conduct any plan examination or plan inspection of the plans except by way of possible screening for completeness or audit for code compliance, as they relate to the current editions of the Manitoba Energy Code for Buildings (MECB), the Canadian Electrical Code – Part I, as adopted and varied by the Winnipeg Electric Bylaw, and the following provisions of the Manitoba Building Code (MBC), Division B:
 - Section 3.7 – Health Requirements
 - Section 3.8 – Barrier-Free Design
 - Part 5 – Environmental Separation
 - Article 6.2.2.1. – General ventilation requirements
 - Part 7 – Plumbing Services
- I recognize that, if the City becomes aware that the attached plans are not complete or fail to comply with the Winnipeg Electrical By-law or the Winnipeg Building By-law, which includes the applicable editions of the Manitoba Building Code, the Manitoba Energy Code for Buildings, the Manitoba Fire Code, and the Manitoba Plumbing Code, the City may provide this information to the Manitoba Association of Architects (MAA) or the Association of Professional Engineers and Geoscientists of Manitoba (APEGM) by way of a complaint or otherwise.
- I understand that any negligence, misrepresentation or falsification of facts contained in this certificate or in the plans under my seal may result in a finding of legal liability against me. I understand that the City of Winnipeg does not accept responsibility for any errors and omissions in the sealed plans.

- I further understand that the City of Winnipeg recommends that I periodically review my professional liability exposures, including those posed by potential third party claims, and that I carry an appropriate level of insurance. I understand that this review should include this specific project, including the building's occupancy type and classification, value, size and complexity, the extent of my professional involvement with it, and the City of Winnipeg's reliance on my certificate.
- NOTE: PERIODIC REVIEWS. The architect or engineer submitting the drawings must complete (or have a suitably qualified person reporting to him or her complete) periodic reviews of the project at appropriate stages of construction, and must be prepared at the completion of the work to sign and seal a letter of certification on the project, unless the architect or engineer
 - a. obtains written acknowledgement by the City that Manitoba Building Code Division C - 2.2.2.3. and 2.2.7.2., the Winnipeg Electrical By-law Subrule 2-000(1) and the Winnipeg Building By-law 4555/87 subsection 5.1 do not apply to the project, and
 - b. indicates on his or her drawings that he/she does not intend to be involved in construction reviews

Please note: The fact that the City has acknowledged that periodic reviews are not required for its purposes does not relieve the professional from any construction reviews that may be required by professional regulatory bodies or client contracts.

I hereby certify that I have complied with all applicable legislation and professional codes in affixing my seal to the plans, drawings and related documents which are being submitted as part of an application for a permit under the Winnipeg Building By-law.

By affixing my seal, I am representing that:

- I am fully aware of the provisions of the Manitoba Building Code, the Manitoba Energy Code for Buildings and the Winnipeg Electrical By-law that are applicable to these plans and drawings;
- I have applied a professional standard of care to ensure compliance of these plans and drawings with the applicable provisions of the Manitoba Building Code, the Manitoba Energy Code for Buildings and the Winnipeg Electrical By-law.

Affix seal with signature and date