

Section IV – Plan Examination/Fire Prevention Submission SIMPLIFIED VERSION

BUILDING DESIGN SUMMARY PROJECT: _____

General Information:

1. This form **MUST** be fully completed, including the seals of the respective design professionals, and attached to the submission. When necessary, additional analyses shall be provided and included with this Submission.
2. All references in Building Design Summary refer to the Manitoba Building Code
3. Please indicate all items that are not applicable
4. This simplified version is intended for **1-Storey Group D, E, or F Buildings (with NO BASEMENT)**.
5. For partial (foundation) permit, for Part 3 section of form, only boxed areas must be completed with the initial submission

The City will not begin processing the permit application until the following information is provided:

1. ARCHITECTURAL DESIGN SUMMARY

1.1 Fire Protection, Occupant Safety and Accessibility (MBC Part 3 – Division B)

MBC Section 3.1 – General

- a. Major occupancy classification (3.1.2): _____
(Note: for multi-use building more than one major occupancy classification may be necessary)
- b. Other intended occupancy group(s): _____

- c. Building Area(s): (square metres) *(note: for additions, both new and existing areas must be included):*

- d. Building Height: (Number of storeys) _____ Facing number of streets: _____
- e. Building is sprinklered Yes No
- f. Firewall(s): _____ hr Fire Separation Location grid line(s) _____
- i. Design Occupant Load(s) (3.1.17): _____

MBC Section 3.2 – Building Fire Safety

3.2.2 – Building Size and Construction Relative to Occupancy

- a. Construction article(s) *(select from articles 3.2.2.20 to 3.2.2.88)* _____
- b. Construction: Non-combustible OR Non-combustible or combustible construction, used singly or in combination
- c. Crawl space (see 3.2.2.9 and 3.1.11.6) _____
- d. Mezzanine assemblies _____ (hr) fire-resistance rating (FRR)
- e. Roof assembly _____ (hr) FRR
- f. Roof assembly (see 3.1.14.2) _____
- g. Load bearing beams and columns _____ (hr) FRR
- h. Fire block (attic - 3.1.11.5 , crawl space - 3.1.11.6) _____

3.2.3 – Spatial Separation [Note: See Tables 3.2.3.1. A to E and Sentences 3.2.3.7.(1) & (2)]

North Wall

- a. Limiting distance (LD) = _____ metres; Exposing building face (EBF) = _____ sq m (area)
- b. Unprotected openings (allowable) _____ % (specify) > unprotected openings (actual) _____ % (specify)
- c. FRR = _____ (hr) Construction: non-combustible combustible Cladding: non-combustible combustible

South Wall

- a. Limiting distance (LD) = _____ metres; Exposing building face (EBF) = _____ sq m (area)
- b. Unprotected openings (allowable) _____ % (specify) > unprotected openings (actual) _____ % (specify)
- c. FRR = _____ (hr) Construction: non-combustible combustible Cladding: non-combustible combustible

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

East Wall

- a. Limiting distance (LD) = _____ metres; Exposing building face (EBF) = _____ sq m (area)
- b. Unprotected openings (allowable) _____ % (specify) > unprotected openings (actual) _____ % (specify)
- c. FRR = _____ (hr) Construction: non-combustible combustible Cladding: non-combustible combustible

West Wall

- a. Limiting distance (LD) = _____ metres; Exposing building face = _____ sq m (area)
- b. Unprotected openings (allowable) _____ % (specify) > unprotected openings (actual) _____ % (specify)
- c. FRR = _____ (hr) Construction: non-combustible combustible Cladding: non-combustible combustible

Supplementary calculations attached Yes

3.2.8 – Mezzanines and Opening through Floor Assemblies

(Note : Mezzanine(s) – Sentence 3.2.8.2.(1) and see also Sentences 3.2.1.1.(3) to (7)

- | | Yes | N/A |
|-----------------------------------|--------------------------|--------------------------|
| a. Open mezzanine (max. 40%). | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Enclosed mezzanine (max. 10%). | <input type="checkbox"/> | <input type="checkbox"/> |

MBC Section 3.3 – Safety within Floor Areas

- a. Suite separation (3.3.1.1) _____ (hr) FS
- b. Major occupancy separation (Table 3.1.3.1) _____ (hr) FS
- c. Other conditions : _____

MBC Section 3.4 – Exits

- a. Minimum two exits [3.4.2.1.(1)] required. Number of exits provided _____ (specify number)
- b. Mezzanine exits/egress stairs (3.4.2.2) _____
- c. Distance between exits (3.4.2.3) = _____ m > 1/2 Diagonal _____ m
- d. Travel distance (3.4.2.5) = _____ m
- e. Exit (3.4.4.1) _____ (hr) FS
- f. Exit capacity (3.4.3.2) – stair (width) _____ mm Number of persons/exit: _____
- g. Exit capacity (3.4.3.2) – door (width) _____ mm Number of persons/exit: _____

MBC Section 3.6 – Vertical Service Space

- a. Service (furnace) room (3.6.2.1) _____ (hr) FS
- b. Service (other) room(s) (3.6.2.1) _____ (hr) FS

MBC Section 3.7 – Washrooms Fixtures (See 3.7.2.2 and Tables 3.7.2.2 A to C)

- a. Occupant load/sex = _____ /2 = _____ /sex
- b. Female Water closet No. required = _____ No. provided = _____
- c. Lavatory No. required = _____ No. provided = _____
- d. Male Water closet No. required = _____ No. provided = _____
- e. Lavatory No. required = _____ No. provided = _____

MBC Section 3.8 – Barrier- Free Design

- a. Barrier-free path of travel provided throughout the building (3.8.2.1) Yes No
- b. Barrier-free washrooms are provided (3.8.2.3) Yes No
- c. Public entrance doors equipped with power door operators [3.8.3.3.(5)] Yes No

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

Building Code Electrical Life Safety Systems

- a. 3.2.4 – Fire Alarm and Detection Systems: Fire alarm is required Yes No
- b. 3.2.7 – Emergency Lighting: Emergency lighting is required Yes No
- c. 3.4.5 – Exit Signs: Exit signage is required. Yes No

Fire Paramedic Service – Fire Prevention Branch – MBC/MFC

MBC 3.2.5 – Provisions for Fire Fighting

- a. Access routes provided for firefighters vehicles, including turnaround Yes No
- b. Location of hydrants indicated. Yes No
- c. Standpipe system is required (3.2.5.8, Table 3.2.5.8.) Yes No
- d. Sprinkler system fire department connections indicated Yes No
- e. Standpipe system fire department connection indicated. Yes No
- f. Dangerous goods, etc. Yes No
- g. Flammable and Combustible Liquids Yes No
- h. Hazardous Processes and Operation, e.g. spray booths, laboratories. Yes No
- i. Other conditions/features. (specify) _____

1. 2 Environmental Separation (MBC Part 5)

MBC Section 5.3 – Heat Transfer

- a. Placement and types of primary insulation layers in environmental separations (Describe) _____

MBC Section 5.4 – Air Leakage

- a. Air-barrier systems utilized (Describe) _____

MBC Section 5.5 – Vapour Diffusion

- a. Vapour barrier materials used and location (Describe) _____

MBC Section 5.6 – Precipitation

- a. Roofing and flashing systems (Describe) _____

- b. Drainage and disposal systems (Describe) _____

MBC Section 5.7 – Surface Water

- a. Methods used to control surface water (Describe) _____

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

MBC Section 5.8 – Moisture in the Ground

- a. Methods used to control moisture in the ground (describe) _____

- b. Penetration of service elements _____

- c. Methods used to accommodate penetrations by windows, doors, electrical services, mechanical services, etc. (describe)

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 edition 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.

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, the Manitoba Fire Code and the Manitoba Plumbing Code 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 these Codes.