

Section IV – Plan Examination/Fire Prevention Branches Submission

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. 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/storey buildings, 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) _____
- g. High Building (3.2.6) Yes No If Yes, additional analysis included *(check)*
- h. Alternative Solution(s): Yes No If yes, see attachment
- i. Design Occupant Load(s) (3.1.17): *(specify occupant loads for various spaces when applicable)*

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)*

(Note: for multi-use, multi-storey buildings, more than one classification or construction article may be necessary)
- b. Construction: Non-combustible OR Non-combustible or combustible construction, used singly or in combination
- c. Floor assembly above basement (see 3.2.1.4 & 3.2.1.5) _____ (hr) fire separation (FS)
- d. Crawl space (see 3.2.2.9) _____
- e. Other floor assemblies _____ (hr) FS
- f. Mezzanine assemblies _____ (hr) fire-resistance rating (FRR)
- g. Roof assembly _____ (hr) FRR
- h. Roof assembly (see 3.1.14.2) _____
- i. Load bearing beams and columns _____ (hr) FRR
- j. Fire blocks (attic - 3.1.11.5, crawl space - 3.1.11.6) _____

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

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

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"/> |
| c. Interconnected floor space — (Sentence 3.2.8.2.(6).) | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Interconnected floor space — (Articles 3.2.8.3 to 3.2.8.9)
<i>Note : See 3.4.3.2.(6) – Exits from Interconnected Floor space</i> | <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. Public corridor separations (3.3.1.4) _____ (hr) FS
- d. Dead-end corridor [3.3.1.9.(7)] – Maximum 6 m _____ (m)
- e. Suite egress (3.3.1.5) – No. of egress doors _____
- f. Transparent /glass doors and partitions _____
- g. Guards _____
- h. Janitor's room (3.3.1.21) _____ (hr) FS
- i. Common laundry rooms (3.3.1.22) _____ (hr) FS
- j. Welding and cutting rooms (3.3.1.25) _____ (hr) FS
- k. Repair garage (3.3.5.5) 2 hr FS Yes N/A
- l. Storage garage (3.3.5.6) 1.5 hr FS Yes N/A

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

- m. Storage of dangerous goods (3.3.6) Yes N/A
- n. Flammable and combustible liquids Yes N/A
- o. Other hazardous processes Yes N/A
- p. Additional occupancy requirements (see Subsections 3.3.2 to 3.3.6) – (specify)

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 lobby (3.4.4.2) _____ (hr) FS
- g. Exit capacity (3.4.3.2) – stair (width) _____ mm capacity: _____ mm/person
- h. Number of persons/exit: _____
- i. Exit capacity (3.4.3.2) – door (width) _____ mm capacity: _____ mm/person
- j. Number of persons/exit: _____
- k. Horizontal exit (3.4.1.6 and 3.4.6.10). Yes No
- l. Exit schematic provided (optional) Yes No
- m. Additional information: _____

MBC Section 3.5 – Vertical Transportation

- a. Elevator shaft (3.5.3.1) _____ (hr) FS
- b. Elevator machine room (3.5.3.3) _____ (hr) FS
- c. Elevator size (3.5.4.1) - see appendix A _____ mm X _____ mm

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
- c. Incinerator room(s) (3.6.2.4) _____ (hr) FS
- d. Refuse (garbage) storage room(s) (3.6.2.5) _____ (hr) FS

MBC Section 3.7 – Washrooms Fixtures (See Subsection 3.7.2 and Tables 3.7.2.2 A to C)

- a. Residential occupancy – 1 washroom/suite Yes N/A
- b. Occupant load/sex = _____ /2 = _____ /sex
- c. Female: Water closet: Number required = _____ Number Provided = _____
- d. Lavatory: Number required = _____ Number Provided = _____
- e. Male: Water closet: Number required = _____ Number Provided = _____
- f. Lavatory: Number required = _____ Number Provided = _____

1. ARCHITECTURAL DESIGN SUMMARY cont'd.

MBC Section 3.8 – Barrier- Free Design

- a. Barrier-free protection (3.3.1.7) – (specify type) _____ or N/A
- b. Barrier-free path of travel provided throughout the building (3.8.2.1) Yes
- c. Barrier-free access to upper floor(s) by elevator (3.8.2.1) Yes N/A
- d. Barrier-free washrooms are provided (3.8.2.3) Yes
- e. Public entrance doors equipped with power door operators [3.8.3.3.(5)] Yes N/A

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

3.2.5 – Provisions for Fire Fighting

- a. Access for fire fighting provided to basement, above grade storeys, roof Yes No
- b. Access routes provided for firefighters vehicles, including turnaround Yes No
- c. Location of hydrants indicated. Yes No
- d. Standpipe system is required (see 3.2.5.8 and Table 3.2.5.8.) Yes No
- e. Sprinkler system fire department connections indicated Yes No
- f. Standpipe system fire department connection indicated. Yes No
- g. Other conditions _____

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) _____

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) _____

MBC Section 5.9 – Sound Transmission (for dwelling units)

- a. Walls _____
- b. Floors _____

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.

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