

Section IV – Plan Examination/Fire Prevention Submission (Architectural – 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 (FS) 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 3.2.2.54 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) _____
- 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 blocks (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 Travel distance (3.4.2.5) = _____ m
- d. Exit (3.4.4.1) _____ (hr) FS
- e. Exit capacity (3.4.3.2) – stair (width) _____ mm Number of persons/exit: _____
- f. 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 access provided to all main floor tenants (3.8.2.1) Yes
- b. Barrier-free washrooms are provided (3.8.2.3) Yes
- c. Public entrance doors equipped with power door operators [3.8.3.3.(5)] Yes N/A

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

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, as they relate to the following provisions of the current edition of the Manitoba Building Code:
 - Division B
 - Section 3.7 - Health Requirements
 - Section 3.8 – Barrier-Free Design
 - Part 5 - Environmental Separation
 - Elements of Part 6 - Heating, Ventilating and Air-Conditioning
 - Part 7 - Plumbing Services
- I am aware that the City of Winnipeg reserves the right to initiate an audit for code compliance of sealed plans.
- 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 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 accept responsibility and legal liability for any negligence, misrepresentation or falsification of facts contained in this statement or in the plans under my seal associated with this project. I understand that the City of Winnipeg does not accept responsibility for any errors and omissions in the sealed plans.
- 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 Plumbing Code and the Manitoba Fire 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.

Responsibilities of the Designer:

I will provide construction reviews as required by Subsection 5.1 of the Winnipeg Building By-Law 4555/87 and upon completion of the work, I will provide a letter of certification in conformance with Subsection 5.1 of the By-Law.