



# BUILDING CODE ANALYSIS SHEET

Required for New Buildings, Additions and Change of Occupancy Permit Applications

## Building Information

Address: \_\_\_\_\_

Building Area: Existing \_\_\_\_\_ m<sup>2</sup> + New \_\_\_\_\_ m<sup>2</sup> = Total \_\_\_\_\_ m<sup>2</sup>

Stores Above Grade: \_\_\_\_\_ Stores Below Grade: \_\_\_\_\_

Number of Streets (as defined by Art. 3.2.2.10.):  1  2  3

Use(s) of the Building (i.e. restaurant, warehouse, apartment, etc.): \_\_\_\_\_

Major Occupancy Classification(s) (circle all that apply): **A1 A2 A3 A4 B1 B2 B3 C D E F1 F2 F3**

Building Code Classification(s) under Subsection 3.2.2. of the MBC: \_\_\_\_\_

### Allowable Unprotected Openings:

North Wall (%) \_\_\_\_\_ South Wall (%) \_\_\_\_\_ East Wall (%) \_\_\_\_\_ West Wall (%) \_\_\_\_\_

### Required Exterior Wall Assembly Fire Resistance Ratings:

North Wall (Hrs) \_\_\_\_\_ South Wall (Hrs) \_\_\_\_\_ East Wall (Hrs) \_\_\_\_\_ West Wall (Hrs) \_\_\_\_\_

Occupant Load: \_\_\_\_\_

Water Closets Required: Male \_\_\_\_\_ Female \_\_\_\_\_ Water Closets Provided: Male \_\_\_\_\_ Female \_\_\_\_\_

Number of Exits Required for: Floor Area(s) \_\_\_\_\_ Mezzanine(s) \_\_\_\_\_

### Public Corridor Separations (Check one):

Fire Separation Required  YES  NO Fire Resistance Rating Required:  N/A  3/4 Hour  1 Hour

### Provide Required Fire Resistance Ratings (in hours):

Floors \_\_\_\_\_ Mezzanine \_\_\_\_\_ Roof \_\_\_\_\_

Bearing Assemblies \_\_\_\_\_ Fire Walls \_\_\_\_\_ Exit Stairways \_\_\_\_\_

Service Shafts \_\_\_\_\_ Furnace Rooms \_\_\_\_\_ Storage Rooms \_\_\_\_\_

Storage Garages \_\_\_\_\_ Repair Garages \_\_\_\_\_ Occupancy Separations \_\_\_\_\_

Suite Separations \_\_\_\_\_ Janitor's Room \_\_\_\_\_ Other (specify) \_\_\_\_\_

### Other Information (Check YES or NO for each question):

Exit Signs Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Emergency Lighting Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Standpipe & Hose System Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Smoke Alarms Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Fire Alarm System Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Barrier Free Access Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Sprinkler System Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Fire Dampers Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Attic Fire Stops Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	Piping Fire Stops Required?	<input type="checkbox"/> YES	<input type="checkbox"/> NO

## Professional Designer Information

Name of Professional designer who has completed this form: \_\_\_\_\_

RETURN THIS FORM TO THE PLANNING, PROPERTY & BUILDINGS DEPARTMENT, 638 PRINCESS AVE, BRANDON MB, R7A 0P3

**BUILDING CODE ANALYSIS SHEET**

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**Building Code Analysis**—A Building Code Analysis (*see page 1*) is required with building permit applications. For complex projects, a more comprehensive analysis should be provided on the drawing title sheet or fixed to the drawings. Appropriate Manitoba Building Code (MBC) references are required. The Articles quoted below are all from the 2010 MBC.

**Building Area:** The greatest horizontal area of a building above grade within the outside surface of exterior walls. Area is that of the building “footprint” or “shadow” only and not the sum of the area of all storeys.

**Storeys Above Grade:** Number of storeys including the first storey. The first storey is defined by the MBC as the uppermost storey having its floor level not more than 2m above grade.

**Number of Streets:** See Article 3.2.2.10. for an explanation of what a street is and how to determine the number of streets a building faces.

**Major Occupancy Classification:** See Article 3.1.2.1. for determination of classifications.

**Building Code Classification:** For Part 3 buildings, this is determined using the Building Area, Number of Storeys, Number of Streets and Occupancy of the building. This classification will fall into one of the Articles 3.2.2.20. to 3.2.2.83. This classification is very important as it will be used to determine many of the items listed in the Building Code Analysis Sheet.

**% of Allowable Unprotected Openings:** See Article 3.2.3.1. or 9.10.14.4. for an explanation of how to determine the area of allowable unprotected openings in each exterior building face. Please note that this is the allowable amount and not the actual amount.

**Required Fire-Resistance Ratings of Exterior Walls:** This is determined from Article 3.2.3.7. 9.10.14.5. or 9.10.15.4.

**Occupant Load:** See Article 3.1.17.1. to determine the occupant load of the building or floor area.

**Water Closets:** Article 3.7.2.2. describes how to determine the number of water closets required for a specific type of occupancy.

**Number of Exits Required:** Subsections 3.4.2. and 3.4.3. or Article 9.9.8.2. describe how to determine the number of exits required based on area, travel distance and occupant load.

**Public Corridor Separations:** Article 3.3.1.4. or 9.10.9.15. provides the requirements for public corridor separations and fire resistance ratings.

**Required Fire Resistance Ratings:** The required fire resistance of floors, mezzanines roofs and bearing assemblies are determined from the building code classification under Subsection 3.2.2. or 9.10.8. Firewalls from 3.1.10. or 9.10.11. Exit stairways from 3.4.4.1. or 9.9.4.2.. Service shafts from 3.6.3. Furnace rooms from 3.6.2. or 9.10.10. Storage rooms from 3.3.4.3. or 9.10.10.6. Storage garages from 3.3.5.6. or 9.10.9.16. Repair garages from 3.3.5.5. or 9.10.9.17. Occupancy separations from 3.1.3.1. or 9.10.9.11. Suite separations from 3.3.1.1. or 9.10.9.13. & 14.

**Other Requirements:** These may be determined as follows: Exit signs from 3.4.5. or 9.9.10. Emergency lighting from 3.2.7.3. or 9.9.11.3. Standpipe systems from 3.2.5.8. Smoke alarms from 3.2.4.20. or 9.10.19. Fire alarm systems from 3.2.4. or 9.10.18. Sprinkler systems from the building code classification in 3.2.2. Barrier-free access from Section 3.8. Fire dampers from 3.1.8.7. and 3.1.8.8. or 9.10.13.13. Attic fire stops from 3.1.11.5. or 9.10.16.1. Piping fire stops from 3.1.9. or 9.10.9.6. and 9.10.9.7.

**Qualified designer:** This designer must be either an architect or engineer licensed to practice in the Province of Manitoba as determined in accordance with Table 2.2.2.3. of Division C of the 2010 Manitoba Building Code.

**For further information, contact one of our commercial inspectors by calling either:**

**Brian Ursel at 204-729-2119 or Murray Fischer at 204-729-2151**