

Building Code Analysis Form (2015 National Building Code of Canada)

Information and Drawing Requirements

Building Information:

Civic Address: _____
 Legal Land Description (i.e. Lot, Block, Plan): _____
 Building Area: Existing: _____ m² + New: _____ m² = Total: _____ m²
 Number of Storeys: Above Grade: _____ Below Grade: _____
 Number of Streets (as defined by 3.2.2.10): _____
 Use(s) of the Building (i.e. restaurant, warehouse, apartment, etc.): _____
 Major Occupancy(ies) of Building (circle all that apply):
 A1 A2 A3 A4 B1 B2 C D E F1 F2 F3

Building Classification(s):

Part 9 (check only if building is classified under Part 9 of NBC)
 Part 3 (check only if building is classified under Part 3 of NBC)
 Indicate the Article(s) under which this building is classified in Part 3):

Allowable Unprotected Openings and Required Exterior Wall Fire Resistance Ratings:

North Wall (%) _____ South Wall (%) _____ East Wall (%) _____ West Wall (%) _____
 North Wall (Hr) _____ South Wall (Hr) _____ East Wall (Hr) _____ West Wall (Hr) _____

Occupant Load:

Number of People _____ as determined by _____
 Plumbing Facilities Required: Water Closets: Male _____ Female _____ Laboratories: Male _____ Female _____
 Plumbing Facilities Provided: Water Closets: Male _____ Female _____ Laboratories: Male _____ Female _____

Number of Exits Required:

From Floor Area(s) _____ From Mezzanine(s) _____

Required Fire-Resistance Ratings (In Hours):

Floors: _____ Mezzanines: _____ Roofs: _____ Bearing Assemblies: _____
 Fire Walls: _____ Exit Stairways: _____ Service Shafts: _____ Furnace Rooms: _____
 Storage Rooms: _____ Storage Garages: _____ Repair Garages: _____ Occupancy Separations: _____
 Suite Separations: _____ Other (Specify) : _____ Other (Specify) : _____

Other Information (Check Yes or No for each question):

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

Professional Designer Information:

(i.e. Name, Company, Contact Info.): _____
 (i.e. Name, Company, Contact Info.): _____
 (i.e. Name, Company, Contact Info.): _____
 (i.e. Name, Company, Contact Info.): _____
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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 National Building Code (NBC) and Uniform Building and Accessibility Standards Act (UBASA) references are required. The Articles quoted below are all from the 2015 NBC.
- 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 areas of all storeys.
- Storeys Above Grade:** Number of storeys including the first storey. The first storey is defined in the NBC as the uppermost storey having its floor level not more than 2 m 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 the building faces.
- Major Occupancy(ies):** See Article 3.1.2.1 for determination of classifications.
- Building Classification:** For Part 3 buildings, this is determined using the Building Area, Number of Storeys, Number of Streets and the Major Occupancy of the building. This classification will fall into one of Articles 3.2.2.20 to 3.2.2.90. This classification is very important as it will be used to determine many of the items listed in the Building Code Analysis sheet.
- Unprotected Openings:** See Article 3.2.3.1 or Subsection 9.10.14 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.
- Exterior Wall Rating:** 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.
- Corridor Separations:** Article 3.3.1.4 or 9.10.9.15 provides the requirements for public corridor fire separations and fire resistance ratings.
- Fire Resistance Ratings:** The required fire resistance ratings 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 Article 3.1.10 or 9.10.11. Exit stairways from Article 3.4.4.1 or 9.9.4.2. Service shafts from Subsection 3.6.3. Furnace rooms from Subsection 3.6.2 or 9.10.10. Storage rooms from Article 3.3.4.3 or 9.10.10.6. Storage garages from Article 3.3.5.6. or 9.10.9.16. Repair garages from Article 3.3.5.5 or 9.10.9.17. Occupancy separations from Article 3.1.3.1 or 9.10.9.11. Suite separations from Article 3.3.1.1 or Articles 9.10.9.13 and 14.
- Other Requirements:** These may be determined as follows: Exit signs from Subsection 3.4.5 or 9.9.11. Emergency lighting from Article 3.2.7.3 or 9.9.12.3. Standpipe systems from Article 3.2.5.8. Smoke alarms from Article 3.2.4.21. or Subsection 9.10.19. Fire alarm system from Subsection 3.2.4 or 9.10.18. Sprinkler system from the building code classification in Subsection 3.2.2. Barrier-free access from Section 3.8. Fire dampers from Article 3.1.8.7 and 3.1.8.8 or 9.10.13.13. Attic fire stops from Article 3.1.11.5 or 9.10.16.1. Piping fire stops from Subsection 3.1.9 or Articles 9.10.9.6 and 9.10.9.7.
- Qualified Designer:** This designer must either be an architect or engineer licensed to practice in the province of Saskatchewan for Part 3 or Part 4 buildings or a person competent in the design of Part 9 for Part 9 buildings.