City of Saskatoon

BUILDING & DEVELOPMENT PERMIT APPLICATION
BUILDING CODE ANALYSIS

Building Information

Address: _____

Building Area: Existing _____ m^2 + New _____ m^2 = Total _____ m^2

Storeys Above Grade: _____ Storeys 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 Classification(s): ☐A1 ☐A2 ☐A3 ☐A4 ☐B1 ☐B2 ☐B3 ☐C ☐D ☐E ☐F1 ☐F2 ☐F3

Building Code Classification(s) under Subsection 3.2.2 of the NBC: _____

Allowable Unprotected Openings:

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

Required Exterior Wall 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:

Floor Area(s) _____ Mezzanine(s) _____

Public Corridor Separations (Check one):

Fire Separation Required: ☐Yes ☐No Fire Resistance Rating Required: ☐N/A ☐¾ 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_____	Other (Specify) _____	Other (Specify) _____

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

Exit Signs Required?	☐ Yes	☐ No	Emergency Lighting Required?	☐ Yes	☐ No
Standpipe & Hose Required?	☐ Yes	☐ No	Smoke Alarms Required?	☐ Yes	☐ No
Fire Alarm System Required?	☐ Yes	☐ No	Barrier Free Access Required?	☐ Yes	☐ No
Sprinkler System Required?	☐ Yes	☐ No	Fire Dampers Required?	☐ Yes	☐ No
Attic Fire Stops Required?	☐ Yes	☐ No	Piping Fire Stops Required?	☐ Yes	☐ No

Professional Designer Information

Name of qualified professional designer who has completed this form: _____

BUILDING CODE ANALYSIS

Definitions

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 *the Act* references are required. The Articles quoted below are all from the 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 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 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.

Percent of Allowable 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.

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 fire separations and fire resistance ratings.

Required 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.