**Updated:** January 2024 Page **1** of **3** 

## **Mechanical Design Summary**

Project description/name and address:					
Gen	eral information:				
1	This document <b>must</b> be completed and attached to the application submission. When necessary, an analyses shall be provided and included with the submission.	dditional			
2	. All references refer to the Manitoba Building Code (MBC).				
3	. Indicate all items that are not applicable.				
	a previous Mechanical Design Summary - Shell only has been submitted, confirm that the design teria has been maintained.	□ Yes			

## Heating, Ventilating and Air-Conditioning (MBC Part 6)

Design professionals to initial their items of responsibility

**Note:** Mechanical systems, such as commercial cooking operations and manufacturing processes, are permitted to be excluded from the full or partial plan submission. However, separate permits are required for those mechanical systems.

MBC Section 6.3 Design and installation					
MBC Subsection 6.3.1 Ventilation ASHRAE 62 ☐ Other (s	specify):				
a. Use(s):					
b. Rate(s):	_				
c. Occupant Load(s):					
d. Ventilation capacity required =	_				
e. Ventilation capacity provided =					
Mechanical HVAC design for MBC Part 5 – Environmenta	al separation				
a. Operating temperature:					
b. Operating relative humidity range Summer:	Winter:				
c. Operating static pressure:					
d. Specified leakage rate for building:					
Other space ventilation					
a. Storage garage - 6.3.1.3	☐ Yes	□ N/A			
b. Indoor air contaminant exhaust - 6.3.1.5	☐ Yes	□ N/A			
c. Dust collection system – 6.9.1.2	☐ Yes	□ N/A			
d. Welding and cutting operations (NFPA 51) – 6.9.1.2	☐ Yes	□ N/A			
e. Crawl space/attic or roof spaces - 6.3.1.2	☐ Yes	□ N/A			
f. Other conditions/features (specify):					



MBC Subsection 6.3.2 Air duct systems						
a. Fire dampers (see Article 3.1.8.10) - 6.9.2.1	□ Yes	□ N/A				
b. Smoke detector control (see Article 3.2.4.13) - 6.9.2.2	□ Yes	□ N/A				
c. Exhaust ducts and outlets - 6.9.2.3	□ Yes	□ N/A				
d. Interconnection of systems - 6.3.2.7	□ Yes	□ N/A				
e. Make-up air - 6.3.2.8	□ Yes	□ N/A				
MBC Subsection 3.1.8 Smoke or Combination Smoke/Fire Dampers (MBC 3.1.8.7. and 3.1.8.11.)						
a. Smoke or combination smoke/fire dampers	☐ Yes	□ N/A				
b. Locations of dampers required in item (a.) have been coordinated with the Electrical Engineer.	☐ Yes					
c. Smoke or combination smoke/fire $\qed$ on electrical drawings $\qed$ on mediampers shown	hanical drawings					
d. Smoke detector required/provided	□ Yes	□ N/A				
MBC Subsection 6.9.3 Carbon monoxide alarms						
<b>Note:</b> The building does not contain a fuel-burning appliance, storage garage or other soccarbon monoxide	urces of	☐ (check)				
a. Carbon monoxide alarms - 6.9.3.1	☐ Yes					
b. Carbon monoxide alarms – (NFPA 720) 6.9.3.2.	□ Yes					
c. Carbon monoxide alarms shown $\qed$ on electrical drawings $\qed$ on med	hanical drawings					
d. Carbon monoxide alarm locations required by 6.9.3.1 or 6.9.3.2 have been coordinated with the electrical engineer	□ Yes					
MBC Subsection 3.3.6 /MFC dangerous goods						
a. Dangerous Goods - 3.3.6.2	□ Yes	□ N/A				
b. Compressed flammable, toxic and oxidizing gases – 3.3.6.3	□ Yes	□ N/A				
c. Flammable and Combustible Liquids – 3.3.6.4 (Refer to 4.1.2.1 in National Fire Code for classification)	□ Yes	□ N/A				
d. Other hazardous processes and operations	□ Yes	□ N/A				
Mechanical systems requiring a separate trade permit	□ Yes	□ N/A				
a						
b		<del></del>				
c						
Integration of fire protection and life safety systems (CAN/ULC-S1001) Standard for Integrated Systems Testing of Fire Protection and Life Safety Systems						
a. Building subject to CAN/ULC-S1001 standard (3.2.9.1)	□ Yes	□ N/A				

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## **Other Systems**

Design professionals to initial their items of responsibility

		•				
1.	Repair garage/spray booths	Check if not applicable $\square$				
a.	Auto-body repair shop - 6.3.1.5		☐ Yes	□ N/A		
b.	Service/repair garage (NFPA 30A) - 6.9.1.2		☐ Yes	□ N/A		
C.	Spray booth (NFPA 33) - 6.3.1.5 and 6.9.1.2		☐ Yes	□ N/A		
2.	Cooking equipment check	Check if not applicable $\square$				
a.	Ventilation of cooking equipment (NFPA 96) – 6.3.1.6		☐ Yes	□ N/A		
b.	Fire protection of cooking equipment (ANSI/CAN//UL/ULC 300 or ULC/ORD-C1254.6) - 6.9.	1.3	☐ Yes	□ N/A		
	Fire Suppression Systems Design professionals to initial their items of responsibility					
Not	<ul> <li>es:</li> <li>Sprinkler system and/or standpipe drawings, includin</li> <li>M2 permit □ (check)</li> <li>For M2 permit, Required Professional Design Certific dated</li> </ul>			·		
	datod					
1.	Sprinkler systems	Check if not applicable □				
			3D			
a.	Sprinkler systems Sprinkler Systems (3.2.5.12) – NFPA (check applicable)	 Ie	3D			
a.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)	le □13 □13R □1		Extra (group2)		
a.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):	le □13 □13R □1 ry (group2) □ Extra (group		Extra (group2)		
a. b.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  □ Light □ Ordinary (group1) □ Ordina	ry (group2) ☐ Extra (group		Extra (group2)		
a. b. c.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  □ Light □ Ordinary (group1) □ Ordina  Type of system (check type): □ Wet □ Dry □ Oth	ry (group2) ☐ Extra (group	1) 🗆 E	Extra (group2)		
a. b. c. d.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  Light □ Ordinary (group1) □ Ordina  Type of system (check type): □ Wet □ Dry □ Oth  Building (for additions – existing building and addition)	ry (group2)	1) 🗆 E	Extra (group2) □ N/A		
a. b. c. d. 2.	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  Light □ Ordinary (group1) □ Ordina  Type of system (check type): □ Wet □ Dry □ Oth  Building (for additions – existing building and addition)  Standpipe systems check	ry (group2)	1)			
<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li><li>2.</li><li>a.</li><li>3.</li></ul>	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  Light	ry (group2)	1)			
<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li><li>2.</li><li>a.</li><li>3.</li><li>a.</li></ul>	Sprinkler systems  Sprinkler Systems (3.2.5.12) – NFPA (check applicable standard)  NFPA Hazard occupancy (check type):  Light Ordinary (group1) Ordina  Type of system (check type): Wet Dry Oth  Building (for additions – existing building and addition)  Standpipe systems check  Standpipe and hose system (3.2.5.8 to 3.2.5.11) - NFP  Other fire suppression features	ry (group2)	1)	□ N/A		

Affix seal with signature and date

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