

CSA STANDARD F280-12 COMPLIANCE		CSA F280-12 Form Set Ver 24.10	
NBC 2015: 9.33.5.1.; 9.36.3.2. & 9.36.5.15; NBC 2020; 9.33.5.1.; 9.36.3.2.; 9.36.5.15 (5); 9.36.8.9. (1);			
These documents issued for the use of _____ and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.		PROJECT # _____	
BUILDING LOCATION			
Model: _____		Site: _____	
Address: _____		Lot: _____	
City & Province: _____		Postal Code: _____	
COMPLIANCE (See page 2 for input summary and page 3 for room by room values)			
Submittal is for: ☐ Whole house ☐ Room by Room		Units: ☐ Imperial ☐ Metric	
HEATING			
Minimum Heating Capacity: _____ btuh (total building heat loss as per 5.2.7)			
5.3.1 The total heat output capacity of all heating systems installed in a building shall not be less than 100% of the total building heat loss as determined in Clause 5.2.7.			
5.3.2 The combined heating delivery of the heating systems that serve a room or space shall not be less than 100% of the space heat loss , as determined in Clause 5.2.6.. (If room by room submittal, see page 2 for individual space heating requirements)			
COOLING			
Nominal Cooling Capacity: _____ btuh (Nominal Cooling Capacity as per 6.3.1)			
Minimum Cooling Capacity: _____ btuh Maximum Cooling Capacity: _____ btuh			
6.3.2 Except as provided in Clause 6.3.3., the cooling system capacity shall not be less than 80% of the nominal cooling capacity for the building, as determined in Clause 6.3.1.. In no case shall it be less than the nominal cooling capacity of the building minus 1800 W (0.51 tons)			
6.3.3 Where the cooling system is added to an existing heating system, it's capacity in Watts shall not exceed 18 times the capacity of the air-handling capacity of the existing system in L/s. (Cooling capacity in Tons not more than 1.0 per 400 CFM of air handling capacity)			
6.3.4 Except for ground-source and water source heat pumps used for cooling, and as permitted in Clause 6.3.5, the installed cooling capacity shall not exceed 125% of the nominal cooling capacity for the building, as determined in Clause 6.3.1.			
6.3.5 If the nominal cooling system capacity for the building, as determined in Clause 6.3.1. is less than 6,000 W (1.7 tons), the installed cooling system capacity may exceed the nominal cooling system capacity for the building by up to 1750 W (0.49 tons).			
ATTACHED DOCUMENTS			
☐ Design Summary ☐ Room by Room Results Other: _____			
Other: _____			
Notes: _____			
CALCULATIONS PERFORMED BY			
Name: _____		I, _____	
Company: _____		have reviewed and take responsibility for the design work described in this document & I am qualified in the appropriate categories.	
Address: _____		Accreditation Reference 1	
City & Prov.: _____		Accreditation Reference 2	
Postal Code: _____		Issued for: (date)	
Phone: _____		Issued for: (date)	
Fax: _____		Page: 1 of	
E-mail: _____			
Area for Authority Having Jurisdiction info		 HVAC DESIGNERS OF CANADA	

CSA F280-12 INPUT SUMMARY					CSA F280-12 Form Set Ver 24.10	
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BUILDING LOCATION						
Model:			Site:		Lot:	
Address:			City/ Prov		Post. Code:	
CALCULATION BASED ON (See Following Page For Results)						
Dimensional Info Based On:						
Attachment:			Front Facing:		Assumed?	
# of Stories:			Air Tightness:		Assumed?	
Weather Location:			Internal Shading:		Assumed?	
Wind Exposure, Site:			Occupants:		Assumed?	
Wind Sheltering, Building			Ventilated? Yes/No		HRV/ERV? Yes/No	
Units: ☐ Imperial ☐ Metric			ASE %:		ATRE %:	
HEATING DESIGN CONDITIONS				COOLING DESIGN CONDITIONS		
Outdoor Temp:		Indoor Temp:	Mean Soil Temp:	Outdoor Temp:		Range:
Soil Conductivity		Water Table Depth:	Slab Fluid Temp:	Indoor Temp:		latitude:
ABOVE GRADE WALLS			BELOW GRADE WALLS			
Style A:			Style A:			
Style B:			Style B:			
Style C:			Style C:			
CEILINGS			FLOORS ON SOIL			
Style A:			Style A:			
Style B:			Style B:			
Style C:			Style C:			
WINDOWS			EXPOSED FLOORS			
Style A:			Style A:			
Style B:			Style B:			
Style C:			Style C:			
SKYLIGHTS			DOORS			
Style A:			Style A:			
Style B:			Style B:			
Style C:			Style C:			
Issued:			Page: 2 of			
Area for Authority having Jurisdiction Info						

ROOM by ROOM CALCULATION RESULTS			CSA F280-12 Form Set Ver 24.10
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BUILDING LOCATION			
Model: 3	Site: 6	Lot: 7	
Address: 4	City/Prov 5	Post. Code: 8	
70 CALCULATION RESULTS - ROOM by ROOM			
#	Room Name 71	Heating (Btu/h) 72	Cooling (Btu/h) 73
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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35			
36			
37			
38			
39			
Ventilation Loss (if separate)74 & Latent Gain (if separate, value or multiplier)75		Btu/h	Btu/h
Total Building Loss (5.2.7) & Nominal Cooling Capacity (6.3.1.)		Btu/h	Btu/h
See page 1 for heating & Cooling System Capacity Limits		issued: 67	Page: 3 of 3
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