




CSA STANDARD F280-12 COMPLIANCE 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);			CSA-F280-M12 Standard Form No. 1	
These documents were issued for the use of <b>Sample CSA F280 Report</b>  and may not be used by any other persons without authorization. Documents for permit and/or construction are signed in red.			PROJECT #  <b>1234567890</b>	
BUILDING LOCATION				
Model: <b>Sample F280</b>		Site: <b>Winnipeg</b>		
Address: <b>123456 Street Ave.</b>		Lot: <b>North End</b>		
City & Province: <b>Selkirk, MANITOBA</b>		Postal code: <b>R12345</b>		
COMPLIANCE (See page 2 for input summary)				
Submittal is for: <input checked="" type="checkbox"/> Whole house <input type="checkbox"/> Room by Room		Units: <input type="checkbox"/> Metric <input type="checkbox"/> Imperial		
HEATING				
Minimum Heating Capacity: <b>44720</b> Btu/h (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				
Cooling Capacity: Nominal= <b>19479</b> Btu/h Minimum= <b>15584</b> Btu/h Maximum= <b>24349</b> Btu/h				
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				
<input type="checkbox"/> Design Summary		<input type="checkbox"/> Room by Room Results Other:		
Other:				
Notes:				
CALCULATIONS PERFORMED BY				
Name: <b>Norman Garcia, AllClimate</b>		I, <b>Norman Garcia, AllClimate</b> , have reviewed and take responsibility for the design work described in this document & I am qualified in the appropriate categories.		
Company: <b>AllClimate Consulting</b>				
Address:				
City & Province: <b>Winnipeg, MANITOBA</b>				
Postal code:				
Telephone:				
Fax:				
E-mail: <b>norm@allclimateconsulting.com</b>		Accreditation Reference 1		
		Accreditation Reference 2		
		Issued Date & Purpose:		
		Re-Issued Date & Purpose:		
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Address: <b>123456 Street Ave.</b>		City/Prov: <b>Selkirk, MANITOBA</b>		Post. code: <b>R12345</b>	
CALCULATION BASED ON (See Following Page For Results)					
Dimensional information based on: <b>Drawings and site measurement</b>					
Attachment: <b>Single Detached</b>		Front facing: <b>Southwest</b>		Assumed? <b>No</b>	
#. of stories: <b>One storey</b>		Air tightness: <b>4.79 ACH50</b>		Assumed? <b>No</b>	
Weather location: <b>Selkirk, MB</b>		Internal Shading: <b>None</b>		Assumed? <b>Yes</b>	
Wind Exposure: <b>Suburban, forest</b>		Occupants: <b>5</b>		Assumed? <b>Yes</b>	
Wind Sheltering: <b>Very heavy</b>		Ventilated? <b>No</b>		HRV/ERV? <b>No</b>	
Units: <input type="checkbox"/> Metric <input type="checkbox"/> Imperial		ASE %: <b>N/A</b>		ATRE %: <b>0</b>	
HEATING DESIGN CONDITIONS			COOLING DESIGN CONDITIONS		
Outdoor Temp: <b>-27.4</b>		Indoor Temp: <b>71.6</b>		Outdoor Temp: <b>84.2</b> Range: <b>53.6</b>	
Mean Soil Temp: <b>42.8</b>		Soil Conductivity: <b>Normal conductivity (dry sand, loam, clay)</b>		Indoor Temp: <b>75.2</b> Latitude: <b>50.15</b>	
ABOVE GRADE WALLS			BELOW GRADE WALLS		
Style A: <b>2x6", 16" oc, R19 batt (R 15.52 eff.)</b>			Style A: <b>2x4" wood, 24" oc, R10 batt (R 8.50 eff.)</b>		
Style B:			Style B:		
Style C:			Style C:		
CEILINGS			FLOORS ON SOIL		
Style A: <b>2x4" Attic Truss, 24" oc, R24 batt (R 23.57 eff.)</b>			Style A: <b>Basement slab uninsulated (R 0.00 eff.)</b>		
Style B:			Style B:		
Style C:			Style C:		
WINDOWS			EXPOSED FLOORS		
Style A: <b>Double glazed , Tint, 6mm Argon, Metal spacer, Aluminum (0.22 RSI / 0.65 SHGC)</b>			Style A:		
Style B: <b>Double glazed , Clear, 13mm Argon, Metal spacer, Wood (0.34 RSI / 0.49 SHGC)</b>			Style B:		
Style C: <b>Double glazed , Tint, 6mm Argon, Metal spacer, Wood (0.32 RSI / 0.6 SHGC)</b>			Style C:		
SKYLIGHTS			DOORS		
Style A:			Style A: <b>Steel polystyrene core (R 5.56 eff.)</b>		
Style B:			Style B: <b>Solid wood (R 2.21 eff.)</b>		
Style C:			Style C:		
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<div><div><div>volta</div><div>SNAP</div><div>Version 0.2.3. Contact: info@voltaresearch.org</div></div></div> <div><div></div><div><div>HVAC DESIGNERS OF CANADA</div><div>VERIFIED F280 SOFTWARE</div></div></div>					