

Ontario Heating Design Temperature Reference

CSA F280 · OBC 2024 All major Ontario municipalities

Important: Design temperatures shown are representative CSA F280 values. Always confirm the exact value with your local building department or OBC climate data tables. Some municipalities use interpolated values based on site elevation or specific location.

How to use this sheet

The **Heating Design Temperature** is the outdoor temperature your heating system must be designed to maintain comfort against. Using a warmer value than shown will undersize your equipment. Using a colder value will oversize it. Both cause problems — one on the coldest nights of the year, one in short-cycling inefficiency all winter.

Municipality	Type	County / Region	Htg Design Temp (°C)	Clg Design Temp (°C)	HDD18	Zone	Permit Portal
SIMCOE COUNTY							
Barrie	City	Simcoe County	-24	+32	4300	Zone 6	Counter / online
Collingwood	Town	Simcoe County	-22	+30	4100	Zone 6	Counter / online
Wasaga Beach	Town	Simcoe County	-22	+30	4050	Zone 6	CityView
Midland	Town	Simcoe County	-22	+30	4050	Zone 6	Cloudpermit
Oro-Medonte	Township	Simcoe County	-24	+30	4300	Zone 6	Cloudpermit
Springwater	Township	Simcoe County	-24	+30	4250	Zone 6	Counter
Tiny Township	Township	Simcoe County	-22	+30	4050	Zone 6	Cloudpermit
Tay Township	Township	Simcoe County	-22	+30	4050	Zone 6	Counter
Penetanguishene	Town	Simcoe County	-22	+30	4050	Zone 6	Counter
Innisfil	Town	Simcoe County	-22	+30	4000	Zone 6	Cloudpermit
New Tecumseth	Town	Simcoe County	-20	+30	3800	Zone 6	Counter
Bradford WG	Town	Simcoe County	-20	+30	3800	Zone 6	Cloudpermit
Essa Township	Township	Simcoe County	-22	+30	4100	Zone 6	Counter
Clearview	Township	Simcoe County	-22	+30	4000	Zone 6	Counter
Severn Township	Township	Simcoe County	-24	+30	4200	Zone 6	Counter
Orillia	City	Simcoe County	-22	+30	4100	Zone 6	Counter
The Blue Mountains	Town	Grey County	-22	+29	4100	Zone 6	Counter
DISTRICT OF MUSKOKA							
Huntsville	Town	Muskoka	-28	+30	4800	Zone 7	Counter
Bracebridge	Town	Muskoka	-28	+30	4750	Zone 7	Counter
Gravenhurst	Town	Muskoka	-26	+30	4600	Zone 7	Counter
Muskoka Lakes	Township	Muskoka	-28	+29	4750	Zone 7	Counter

Municipality	Type	County / Region	Htg Design Temp (°C)	Clg Design Temp (°C)	HDD18	Zone	Permit Portal
Lake of Bays	Township	Muskoka	-28	+29	4800	Zone 7	Counter
Georgian Bay Twp	Township	Muskoka	-24	+29	4200	Zone 6	Counter
OTHER ONTARIO MUNICIPALITIES							
Parry Sound	Town	Parry Sound Dist.	-26	+29	4600	Zone 6/7	Counter
Ottawa	City	Eastern Ontario	-24	+31	4500	Zone 6	Counter
Kingston	City	Eastern Ontario	-22	+30	4200	Zone 6	Counter
Peterborough	City	Central Ontario	-22	+31	4100	Zone 6	Counter
Toronto	City	Greater Toronto	-18	+33	3500	Zone 5/6	Counter
Hamilton	City	Greater Hamilton	-18	+31	3600	Zone 5/6	Counter
Guelph	City	Wellington Co.	-18	+31	3700	Zone 5/6	Counter
Kitchener	City	Waterloo Region	-18	+31	3700	Zone 5/6	Counter
London	City	Southwestern Ont.	-18	+32	3700	Zone 5	Counter
Windsor	City	Southwestern Ont.	-14	+34	3200	Zone 5	Counter
Sudbury	City	Northern Ontario	-30	+29	5200	Zone 6/7	Counter
North Bay	City	Northern Ontario	-30	+29	5100	Zone 7	Counter
Sault Ste. Marie	City	Northern Ontario	-28	+29	4900	Zone 7	Counter
Thunder Bay	City	Northwestern Ont.	-34	+29	5800	Zone 7	Counter
Timmins	City	Northern Ontario	-34	+28	6000	Zone 7	Counter

Zone 5 Milder southern Ontario (Windsor, London). Design temps around -14°C to -18°C.	Zone 6 Most of Ontario including Simcoe County, Eastern Ontario, Ottawa. Design temps -18°C to -26°C.	Zone 7 Muskoka and Northern Ontario. Design temps -26°C to -34°C. Coldest equipment sizing conditions.
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