

TOWN OF COCHRANE

Building Safety Codes

101 RancheHouse Rd.
Cochrane, AB T4C 2K8
Phone: 403-851-2572 Fax: 403-932-2935
Email: safety.codes@cochrane.ca



Fields marked with an * are required

Homeowner Hot Tub Application

OWNER INFORMATION

Owner Name*	Phone*
Mailing Address*	Email*
City & Postal Code*	Additional Information if required:
Project Address*	
Hot Tub Permit Fee: Includes Building & Electrical \$189.00	Estimated Construction Value*

*Existing *Concealed Work*? If "Yes" see the [concealed work process](#)

* An [electrical load calculation](#) shall be provided and must be filled out by a licensed master electrician.

APPLICANT DECLARATION I certify that I am the owner/agent submitting this application and construction will be completed in accordance with the Alberta Safety Codes Act and Regulations and will commence within **90 days**. I understand homeowner permits are to be completed within **365 days**.

I have read and understand the applicant
declaration *

Applicant Name(Print)

Application Date(mm,dd,yyyy)

Please see our website for additional information regarding Hot Tub specific installations related to the Building Code and Electrical Code.

Concealed Work - Any work (electrical) that was installed without permits and is now covered by drywall

The personal information collected through the permit application will be used to process your application. The information relates directly to and is necessary for the operation of the program or activity applied for and may be input into an automated system to generate content or make decisions, recommendations, or predictions. This information is collected and used under the authority of Section 4(c) of the Protection of Privacy Act and managed in accordance with the Act. For questions about the collection of personal information, please contact ATI@cochrane.ca.

The Alberta Safety Codes Act requires that a permit be obtained prior to beginning construction. Failure to obtain permits may result in the applicant being charged a double fee.

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Fire Safety Plan

THIS PLAN MUST BE POSTED ONSITE AND OCCUPANTS/EMPLOYEES ARE EXPECTED TO BE TRAINED IN HOW TO FOLLOW ITS PROVISIONS

Address:

Description of Project: **Hot Tub**

Contact Personnel:

Phone #:

Specific Considerations:

- Fire extinguisher(s) will be available at all times during the progress of the construction
- Access to fire hydrants and buildings for fire apparatus must be maintained

Emergency Response Numbers: FIRE/POLICE/AMBULANCE: 9-1-1

General Considerations:

- A WARNING SYSTEM will be in place to warn of potential threats, and facilitate evacuation (yelling, ringing of a bell or horn, etc.)
- EVACUATE via the nearest exit if you are warned of a fire
- PROCEED to the main entrance (outside) and report to the Fire Department
- FIGHT the fire ONLY if it is small and you are NOT ALONE

Hazards Control:

- At the end of each day combustible refuse will be cleared from the site area and disposed of in bins or stored in neat piles. Unused construction material will be kept neat and orderly.
- No open-flame devices will be used inside buildings unless a dedicated watch is in place
- Liquid Propane Tanks or flammable liquids containers are not allowed within buildings

This Fire Safety Plan is designed in conformance with and is a requirement of Division B, Section 2.8.2 of the National Fire Code, and on signature, becomes an agreement between the building owner/contractor and the Town of Cochrane Fire department.

I have read and understand the above

Building Owner/Contractor Name:

Date:

Hot Tubs

A hot tub requires a building permit because they are defined under the National Building Code (2023) AB Edition as *private swimming pools* (Article 7.2). Below are the specific conditions that will need to be met after the permit has been issued.

Alberta Building Code – Specific Conditions

Fence and Gate Design and Construction

Swimming pool means a structure, basin or tank containing an artificially created pool of water that is used for swimming, recreation, bathing, diving, wading, healing or therapy, religious rituals or other purposes, and includes all *buildings*, equipment and facilities used in connection with it.

Private swimming pool means a *swimming pool* that is constructed for the use of a single-family dwelling unit or a house with a secondary suite by the owners and their guests.

Fencing is **not required** around a *swimming pool* that is provided with a cover that

- has been designed and constructed in conformance with ASTM F1346, “Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs,” and
- has the structural strength to support the weight of an adult walking across the top of it when it is in the closed position
- is provided with **lockable devices** to prevent access to the water by unauthorized persons.
- The hot tub does not exceed 2.4 m (8 ft.), across the widest portion of the water’s surface.

The entire area of an outdoor *swimming pool* shall be protected by a fence, *building* wall or enclosure that can prevent access by unauthorized persons, and its height above the outside ground level shall be not less than 1.8m for private pools.

An opening for access through a fence around a *swimming pool* or a *private swimming pool* shall be protected by a gate that is

- the same height as the fence,
- equipped with a self-closing device,
- equipped with a self-latching device on the inside of the gate located not less than 1.5 m above the ground level, and
- capable of being locked.

The fence and gate around a *swimming pool* or a *private swimming pool* shall

- a) be constructed so that all horizontal and diagonal members are located on the *swimming pool* side, and
- b) not permit the passage of a sphere whose diameter is more than 100 mm.

No device shall be installed on or adjacent to a fence or gate around a *swimming pool* or a *private swimming pool* that could cause an electric current to pass through the fence or gate.

A fence is not required around any portion of an outdoor *private swimming pool* if the top of the outside wall of the *private swimming pool* is not less than 1.8 m above the level of the ground outside the wall and the wall is constructed so that the only means of access to the *private swimming pool* is through a gate or similar facility.

If you plan on placing the hot tub on a deck, we will require all loading calculations to be submitted to a Safety Codes Officer for review, without proper calculations an engineer's report will be required to determine whether the deck can support the load of the hot tub

**If you have any questions please contact 403-851-2572 or email safety.codes@cochrane.ca

Important Information for Hot Tub Installations

Within Section 68 (pools, hot tubs, and spas) of the Canadian Electrical Code (CEC). Below is a summary to assist along with some key electrical code rules.

- Important Note: Please make sure the location of your hot tub is approved based on local bylaws as it relates to the property line, overhead wires or other underground utilities. It's always a good idea to arrange "Call before you dig" if you are not sure what may be located underground.
- Please follow the manufacturer's instructions and use only copper conductors and approved wiring methods for underground installations.
- Electrical Load Capacity: It is important to have a licensed master electrician check your existing electrical service to make sure you have the electrical capacity required to safely operate your hot tub. Electrical load calculations are required to be submitted with your hot tub application.

Refer to the Canadian Electrical Code Rules: 8-106 and 8-200.

68-000 Scope

- a) Electrical installations and electrical equipment in or adjacent to pools; and
- b) Non-electrical metal accessories in a pool or within 3m of the inside wall of the pool.
- A pool shall be deemed to include.
 - a) Hydromassage bathtubs
 - b) Spas and hot tubs
 - c) Wading pools
 - d) Baptismal pools
 - e) Decorative pools; and
 - f) Splash pads

68-064 – Receptacles

- Receptacles shall not be located within 1.5m of the inside walls of a pool.
- Receptacles located between 1.5 and 3m of the inside walls of a pool shall be GFCI protected.

NOTE: The GFCI receptable, if installed out-doors, must also be located a minimum of 1.5m 3m away. Care should also be taken to make sure that if an outside receptable is removed it has not disrupted the down stream GFCI protection to another outside receptacle. Existing receptacles that are located within 1.5m of the hot tub shall be removed and will need to be relocated to an acceptable location as at least one

receptacle must be accessible from grade at the rear of the house or as close to the rear of the house as possible. CEC Code Rule: 26-724.

68-066 – Luminaires and lighting equipment

- All exterior lighting located within 3m of the pool surface or walls and not suitably separated from the pool area by fence, wall, or other permanent barrier, shall be GFCI protected.

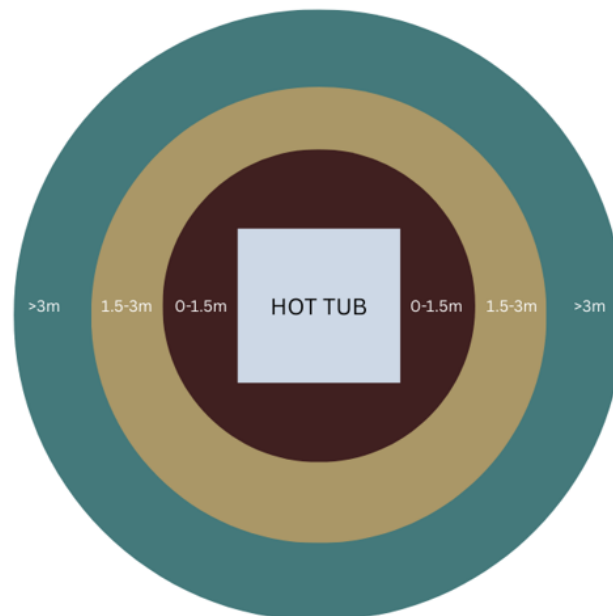
NOTE: This relates to the outside lights located within 3m of the hot tub.

68-068 – Ground fault circuit interrupters

- GFCI spa packs or spa buddy enclosures shall not be located closer than 3m to the hot tub.

68-072– Disconnecting Means

- The hot tub disconnecting means shall be located outside.





Electrical Load Calculation

Residential Electrical Load Calculation Canadian Electrical Code (CEC) Rule 8-200(2)

Project Information

Primary Dwelling Address:		Secondary Dwelling Address (if applicable):		Primary Dwelling (larger dwelling)	Secondary Dwelling (if applicable - smaller dwelling)
Area of Dwelling units				m ²	m ²
1	Add basic load of 5000W for first 90m ² of total living area for each suite (90m ² = 969 sq. ft)			W	W
2	Add 1000W for each additional 90m ² + any portion in excess of 90m ² of living area for that suite			W	W
*Notes: - Air Conditioning loads are entered in line 10 - All electric space heating loads are entered in line 11					
3	Electric range - 6000W (+ 40% of any amount by which the NAMEPLATE rating range exceeds 12 kW)			W	W
*Note: If separate wall oven and cooktop, or gas range installed. Apply Note 2 in line 6					
4	Electric Water heaters at 100% of the NAMEPLATE rating (identify each one in a separate line)			W	W
	Fully Electric On-Demand Water Heater			W	W
	Hot tubs, pool heater			W	W
	Steam shower heater			W	W
	Jet tub heater			W	W
	Sauna			W	W
	Other:			W	W
5	Electric vehicle supply equipment			W	
*Note: taken at 100% of the charge rate setting					
6	Other Loads with a NAMEPLATE rating in excess of 1500 W - these loads are applied at:				
	Dryer			W	W
	Hot tub pool pumps total			W	W
	Wall oven - if no electric range or a gas range installed			W	W
	Electric Cooktop - if no electric range or a gas range installed			W	W
	Domestic Hot Water Tank			W	W
	Other:			W	W
	Other:			W	W
	Other:			W	W
*Note 1: - 25% of nameplate rating if there is an electric range in that suite *Note 2: - 100% of the combined load up to 6000 W plus 25% of the combined load that exceeds 6000 W if no range has been provided for (gas range or wall oven and cooktop combination) - Identify each load in a separate line					
7	TOTAL CALCULATED LOAD PER SUITE IN WATTS (Lines 1 to 6)			W	W
CALCULATED LOAD APPLIED TO THE SERVICE					
8	Larger dwelling unit @ 100%				W
9	Smaller Dwelling (if applicable) - @ 65%				W
10	All air conditioning loads @ 100% - no matter which suite they are installed				W
11	All electric heating loads @ 100% - no matter which suite they are installed				W
					W
					W
					W
12	Sum of all Electric Heating Loads				W
13	Electrical heat interlocked with A/C				Y/N
	Greater of A/C or Electric loads - ONLY when A/C and electrical heat are interlocked				W
	Sum of all A/C and Electric heating loads - ONLY when A/C and electrical heat are NOT interlocked				W
*Notes - Identify each heating load in a separate line (includes electric fireplaces and garage heaters) - If air conditioning and electric heat are NOT interlocked, Both A/C and heat values must be used					
14	TOTAL CALCULATED LOAD IN WATTS				W
15	Divide line 14 by 240 for MAIN SERVICE AMPACITY REQUIRED				A
16	What is the existing installed service size installed at this building?				A
I have verified that the information contained within this document is correct					
Master Electrician Name:				Signature	
Master Electrician Number:					
Date:					
Phone No.					
		Email:			

*When a secondary suite is added to an existing property a service demand calculation must be completed and submitted as part of the permit application