

To: Bozeman Hot Tub Outlets, Contractors and Homeowners
From: City of Bozeman, Building Division
Re: Hot Tub and Spa Installation

Please review the following building code information regarding the installation of a hot tub or spa at a residence within the Bozeman City Limits.

References

- 2012 International Building Code (IBC)
- 2014 National Electrical Code Article 680 (NEC)
- 2012 Uniform Plumbing Code (UPC)
- 2012 International Swimming Pool and Spa Code

Building Permits

While a building permit for the hot tub is not required, an electrical permit from the Building Division is required for the electrical connection and a plumbing permit is required for a gas connection. *Note: Corrections and /or modifications in compliance with the International Building Code may be required if the installation of your hot tub creates an unsafe condition. For example, if it's installed within 60 inches of a window without tempered glass.*

Indoor or Outdoor Installations

- Residential raised interior floors and exterior decks are typically designed for a total load of 50 pounds per square foot. A typical hot tub weighs approximately 125 pounds per square foot. Check with a local contractor or Engineer to make sure your hot tub location is strong enough to support your new tub. Note: A building permit is required to modify an area prior to installing your hot tub.
- Any glazing in doors and enclosures, or building walls within 5 foot of water's edge and less than 60 inches above walking surface must be tempered glass. (IBC 2406.4)
- Electrical disconnect must be readily accessible and within sight of and not less than 5-foot horizontal from inside wall. (NEC 680.12)
- If permanently installed and provided with gas; water heating supply piping must be sized and installed in accordance with the 2009 UPC, and per manufactures installation instructions.

Indoor Installations

- All electrical equipment associated with or within 5 feet horizontally of the inside wall of the hot tub must be grounded per NEC 680.43 (F)
- All metal parts and fittings associated with the hot tub as well as all metal surfaces within 5 foot of inside wall of hot tub that are not separated by a permanent barrier must be bonded with #8 or larger copper wire per NEC 680.43 (D) and (E).
- At least one GFCI receptacle is required not less than 6 feet or more than 10 feet horizontally from the inside wall of the hot tub. NEC 680.43 (A).
- Lighting fixtures, lighting outlets and ceiling fans located over, or within 5 feet horizontally of the inside walls of the unit must be located at least 7 feet 6 inches above the maximum water level and be GFCI protected. NEC 680.43(B)(I)
- Listed packaged units rated 20 amperes or less may be cord and plug connected. (NEC 680.43 Exception)
- Receptacles supplying power to the hot tub must be GFCI protected unless the hot tub is a listed packaged unit with integral GFCI protection. (NEC 680.44 (A))
- Wall switches and outlets must be at least 5 feet horizontally from the inside wall of the unit. (NEC 680.43(C))

Outdoor Installations

1. No underground wiring is allowed under or within 5 feet horizontally of the hot tub or pool other than wiring necessary to supply unit. (NEC 680.10).
2. The hot tub or pool is not allowed under or within 10 feet horizontally of overhead conductors which is less than 22 1 / 2 feet above highest water level. (NEC 680.8).
3. If permanently installed at least one 125v GFCI receptacle is required between 10 feet and 20 feet from and not over 6 feet 6 inches above grade. (680.22 (A)(3)). No receptacles are allowed within 10 feet of inside wall except 1 GFCI single locking receptacle for the pump motor is allowed at not less than 6 feet from inside wall or hot tub.
4. All switching devices must be located at least 5 feet from inside walls of hot tub or separated by a solid fence or wall. (NEC 680.22 (D)).
5. Lighting fixtures, lighting outlets and ceiling fans are not allowed over or within 5 feet horizontally of inside walls unless 12 feet above maximum water level. (NEC 680.22 (C)(1)) see existing 680.22 (C) (3).
6. Fixed or Stationary equipment other than underwater lighting fixtures may be cord and plug connected if the cord is not over 3 feet long and contains a #12 or larger copper equipment grounding conductor. (NEC 680.7).
7. If permanently installed; all bonding must comply with requirements. (NEC 680.43 (D))
 8. If permanently installed; all grounding must comply with requirements. (NEC 680.43 (F))