**Chimneys**

Where certified for use with a specific chimney or class of venting system, a solid-fuel-burning appliance shall only be used with that chimney or venting system.

Factory-built chimneys acceptable for use with solid-fuel-burning appliances and their installation must conform to CAN/ULC-S629-M, “650°C Factory-Built Chimneys.”

Masonry and concrete chimneys must conform to the Alberta Building Code and should only be constructed by a qualified tradesperson.

**Combustion air**

Appliances that have a **direct supply** of combustion air shall be tested and labelled for this application. Ducts supplying combustion air from outdoors may only be connected directly to the air inlet of an appliance that is tested and labeled for such a connection.

The installation and the components of the combustion air system must conform to the manufacturer’s installation instructions or to CAN/CSA-B365, *Installation Code for Solid-Fuel-Burning Appliances and Equipment*.

**Makeup air and carbon monoxide alarms**

Even at a relatively low level of depressurization, certain open-type or even closed-type solid-fuel-burning appliances whose stoking doors are left open, can spill products of combustion into the house when operating in their “die down” or smoldering stages.

The Alberta Building Code addresses the potential for spillage in dwellings that contain solid-fuel-burning appliances and equipment with requirements for **makeup air**, and **carbon monoxide alarms**.

**Carbon monoxide alarms**: Carbon monoxide alarms shall be installed in each room containing a solid-fuel-burning appliance as prescribed under the current edition of the Alberta Building Code.
Solid-Fuel-Burning Appliances

Do you need a permit?
It is the owner’s responsibility to obtain a building permit before installing or modifying any solid-fuel-burning appliance as prescribed by the current edition of the Alberta Building Code.

Acceptable appliances and equipment
Appliances, accessories, components, and equipment are required to satisfy the requirements of one of the following standards, whichever is applicable:

- CAN/CSA-B366.1, central systems
- CAN/ULC-S610, factory-built fireplaces;
- ULC-S627, space heaters;
- ULC-S628, fireplace-inserts & hearth-mounted stoves;
- CAN/ULC-S629, factory-built chimneys;
- ULC-S632, heat shields;
- ULC-S635, lining systems for existing chimneys;
- CAN/ULC-S639, steel fireplace liners;
- CAN/ULC-S640, liners for new chimneys;
- ULC-S641, flue pipes; or
- the requirements of the authority having jurisdiction.

Manufacturer’s installation instructions are checked as part of the certification process to ensure safe operation of your solid-fuel-burning system. Labels found on certified appliances are your assurance that a product has been tested & conforms to established safety standards.

Note: Appliances and equipment without permanent certification labels that confirm testing to their applicable standard will not be allowed for use, unless accepted by the authority having jurisdiction.

Professional installation
To achieve maximum performance from a solid-fuel-burning appliance and to be assured of it’s safety, you should consider having the system that will best serve your needs professionally installed. Seek out people trained in proper installation procedures who are “Wood Energy Technical Transfer (WETT)” certified. For additional service and safety information, contact: Wood Energy Technical Transfer Inc. at 1-888-358-9388 or check out their web site at www.wettinc.ca

Installation of solid-fuel-burning appliances
The design, construction and installation of solid-fuel-burning appliances and equipment, including stoves, ranges and space heaters, shall conform to CAN/CSA-B365-01, “Installation Code for Solid-Fuel-Burning Appliances and Equipment.” This standard covers such issues as accessibility, air for combustion and ventilation, chimney and venting, mounting and floor protection, wall and ceiling clearances, installation of ducts, pipes, thimbles and manifolds, and control and safety devices.

If you have questions or would like to place an order for the CAN/CSA-B365-01 standard, please contact: Canadian Standards Association
1 (800) 463 6727 or visit them online at www.csa.ca.
Canadian Standards Association, Western Region
Phone: (780) 490-2007 Fax: (780) 490 2059

Canada Mortgage and Housing Corporation (CMHC) has produced further safety information on the safe installation of solid-fuel-burning appliances and equipment in a document called “A Guide to Residential Wood Heating.” If you have further questions or you wish to obtain this publication; visit their website at www.cmhc.ca or you may reach them by phone at 1-800-668-2642

WARNING: Whenever solid fuel-burning appliances are to be installed in mobile homes, they must be tested and labelled “for use in mobile homes.”

Protection of the floor
Any combustible flooring or floor covering beneath a solid-fuel-burning appliance requires protection from hot embers that might fall during fire tending or ash removal. Combustible floors must be protected by a continuous, durable, non combustible pad made of a 0.38 mm (0.015 in) thick metal sheet, or a grouted ceramic floor-tile installed in accordance with the National Building Code of Canada shall be considered a durable pad. Floor protection pads must extend not less than 450 mm (18 in.) in front of the loading door and 200 mm (8 in.) beyond the other sides and back.

Protection for non-tested appliances
If acceptable to the authority having jurisdiction, non-tested appliances, must provide adequate floor protection which will depend on the height of the unit supported off the combustible floor structure. Necessary protection is based on the Mounting and Floor Protection section of CAN/CSA-B365-01, Installation Code for Solid-Fuel-Burning Appliances and Equipment.

Wall and ceiling clearances
The minimum clearance between any solid-fuel-burning appliance and combustible material (other than the floor), whether or not such material is covered with non-combustible material such as plaster, shall conform to Table 2: Clearances to Combustible Material for Appliances Using Solid-Fuel of CAN/CSA-B365-01, Installation Code for Solid-Fuel-Burning Appliances and Equipment, unless the appliance is certified for lesser clearances.

Certified appliances, accessories, components, and equipment, shall be installed in accordance with the manufacturer’s installation instructions. When a difference exists between the manufacturer’s installation instructions and the CAN/CSA-B365-01, Installation Code for Solid-Fuel-Burning Appliances standard, the manufacturer’s installation instructions shall govern.

Reduction in wall and ceiling clearances
Clearances for uncertified and certified appliances may be reduced in accordance with the clearance provisions of certified heat shields or if the requirements are satisfied as set out in Table 3: Reduction in Appliance and Ductwork Clearance from Combustible Material with Specified Forms of Protection of CAN/CSA-B365-01, Installation Code for Solid-Fuel-Burning Appliances and Equipment.

The common feature of the clearance reduction rules is air space behind the shield material. This space sets up a convection flow of air which prevents the appliance’s heat from reaching the walls and ceilings.