

Wood Heat Guide

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Types of Appliances

Wood Stove

- Free standing
- Considered a room heater, not meant to heat the entire home
- Certified to ULC-S627
- Can inspect all sides, floor, and flue pipe, label usually on back

Insert

- Must be installed in the fire chamber of masonry fireplace
- Considered a room heater, not meant to heat the entire home
- Connected to existing chimney, must be relined with stainless steel liner
- Typically, the existing hearth does not extend far enough to meet current code
- Certified to ULC-S628
- Label is usually behind the surround, the fan assembly, or the side panels. Usually not visible without removing parts
- Can inspect distance to side walls, hearth extension, and mantel
- May require a fresh outdoor air kit
- Safety Surveyor inspection required

Factory Built Fireplace

- Made to be installed within combustible construction
- Connected to metal pre-fab chimney
- Some manufacturers only certify their appliance to be used with specific chimneys
- Certified to ULC-S610
- Manufacturer may require a minimum/maximum height of chimney, degree of offsets
- Can inspect distance to side walls, hearth, and mantel
- Usually installed in new construction, best to inspect after framing is complete, before finishing wall so you can see the distances to combustibles and chimney type
- May require a fresh outdoor air kit
- Safety Surveyor inspection required

Hearth Mounted Stove

- Similar to an insert, sits on the hearth, further out of the masonry fireplace
- Considered a room heater, not meant to heat the entire home
- Connected to existing chimney, must be relined with stainless steel, and must have a base “T” installed as part of the liner
- Typically, the hearth does not extend far enough to meet current code
- Certified to ULC-S628
- Label is usually behind the surround, not visible without removing parts
- Can inspect distance to side walls, hearth extension, and mantel

Cooking Range

- Free standing
- Considered a room heater, not meant to heat the entire home
- Takes large floor area, typically high required clearances
- Certified to ULC-S627
- Can inspect all sides, floor, and flue pipe, label usually on back

Open Masonry

- Requirements fall under National Building Code of Canada
- There is also the CSA standard A405, however, it is not adopted into the NBCC
- Non-combustible hearth must extend 400 mm (15 ¾ inches) in front and 200 mm (8 inches) to the sides
- Combustible material can not be within 150 mm (6 inches) of fireplace opening
- Combustible material within 300 mm (12 inches) can not project more than 38 mm (1 ½ inches)

Furnace

- Certified to CSA B366.1
- Clearances required for plenum and ducts is on label
- If installed as a standalone, plenum, branch, and return ducts must be non-combustible construction
- If installed in conjunction with oil fired furnace, wood furnace must be certified as an add on appliance, must say on label

Boiler

- Certified to CSA B366.1
- If installed in conjunction with oil fired boiler, wood boiler must be certified as an add on appliance, must say on label
- Must have a “dump zone”. A special zone to dissipate heat that operates if there is a power failure

Outdoor Wood Boiler

- Certified to CSA B366.1
- Must be installed outdoors, if installed in a building, that building is not insurable
- Manufacturers installation requirements must be followed
- Area around boiler kept clean
- Non-EPA rated appliance minimum 50' from insured structure, EPA rated minimum 30' distance
- Safety Surveyor inspection required

Pellet

- Certified to ULC-S627
- Free standing
- Considered a room heater, not meant to heat the entire home
- Label can be on back, inside hopper lid, or inside control panel
- Safety Surveyor inspection required

Sawdust/Chip

- Certified to CSA B366.1
- Could be gravity or auger fed
- Self feeding systems have fall under specific regulations, Safety Surveyor inspection required

Labels/Certification

ETL Symbol. Lab that performed the standard testing. "C" means certified for use in Canada

Clearances to combustibles section. Sometimes has measurements required for different countries, and using single or double wall pipe

This section has other installation requirements

REFER TO INTERTEK'S DIRECTORY OF BUILDING PRODUCTS FOR DETAILED INFORMATION
SE RÉFÉRER AU RÉPERTOIRE DES PRODUITS HOMOLOGUÉS D'INTERTEK POUR PLUS D'INFORMATION

ETL US
Intertek
May/Mai 2021
Control number: 4002461

STANDARDS / NORMES D'ESSAI:
Certified to/Certifié selon ULC 5627
Certified to/Certifié selon UL 1482
Certified to/Certifié selon UL 737
Certified to/Certifié selon CSA B415.1-10
Certified to/Certifié selon ASTM E3053-17
Certified to/Certifié selon ASTM E2515-11 (R2017)

LISTED SOLID FUEL BURNING APPLIANCE
POÊLE À COMBUSTIBLE SOLIDE HOMOLOGUÉ
MODEL / MODÈLE : S250
Serial Number / No. de Série: 999969

Clearances to combustibles / Dégagements aux combustibles

CANADA

Single wall connector / Tuyau à paroi simple
A: 14 in./po. (356 mm)
B: 18 in./po. (457 mm)
C: 11 in./po. (279 mm)
D: 18 in./po. (457 mm)
E: 24.5 in./po. (622 mm)
F: 18.25 in./po. (464 mm)
Floor-ceiling/plancher-plafond: 84 in./po. (213 cm)

Double wall connector / Tuyau à paroi double
A: 6 in./po. (152 mm)
B: 18 in./po. (457 mm)
C: 7 in./po. (178 mm)
D: 9.25 in./po. (235 mm)
E: 23.75 in./po. (603 mm)
F: 13.5 in./po. (343 mm)

U.S.A.

Single wall connector / Tuyau à paroi simple
A: 12 in./po. (305 mm)
B: 18 in./po. (457 mm)
C: 11 in./po. (279 mm)
D: 16 in./po. (406 mm)
E: 24.5 in./po. (622 mm)
F: 18.25 in./po. (464 mm)

Double wall connector / Tuyau à paroi double
A: 6 in./po. (152 mm)
B: 18 in./po. (457 mm)
C: 7 in./po. (178 mm)
D: 9.25 in./po. (235 mm)
E: 23.75 in./po. (603 mm)
F: 13.5 in./po. (343 mm)

MOBILE HOME / MAISONS MOBILES
Double wall connector / Tuyau à paroi double
A: 6 in./po. (152 mm)
B: 22 in./po. (559 mm)
C: 10 in./po. (254 mm)
D: 9.25 in./po. (235 mm)
E: 27.75 in./po. (705 mm)
F: 16.5 in./po. (419 mm)

Protection de plancher/Floor protection

CANADA
G: 8 in./po. (203 mm)
H: 8 in./po. (203 mm)
I: 18 in./po. (457 mm)
K: 48 in./po. (1219 mm)

U.S.A.
G: 8 in./po. (203 mm)
H: 8 in./po. (203 mm)
I: 10 in./po. (254 mm)
J: 8 in./po. (203 mm)
K: 36 in./po. (914 mm)

PREVENT HOUSE FIRES

- Install and use only in accordance with the manufacturer's installation and operating instructions.
- Contact local building or fire officials about restrictions and installation inspection in your area.
- Use listed 152 mm (6 in.) diameter single or double wall connectors with prefabricated chimneys approved UL 103 HT (US) and ULC 5629 (CAN) suitable for solid fuels or lined masonry chimneys.
- See local building code and manufacturer's instructions for precautions required for passing a chimney through a combustible wall or ceiling.
- This stove must be installed as a freestanding heater with the clearances listed in the manufacturer's installation instructions. It is strictly forbidden to install this stove in a factory-built fireplace.
- Do not pass connector through combustible wall or ceiling.
- Do not connect this unit to a chimney serving another appliance.
- For use with solid fuel only. Do not use other fuels.
- Operate only with door closed or door open with firescreen installed. Open door or remove firescreen to feed the stove only.
- Do not obstruct the space underneath the stove.
- Do not use grate or elevate fire. Build fire directly on hearth.
- Do not overfire. If heater or chimney connector glows, you are overfiring.
- Inspect and clean chimney frequently. Under certain condition of use, creosote buildup may occur rapidly.
- Replace glass with ceramic type only.
- Install unit on a non-combustible material extending as shown above on this label.
- Suitable for mobile-home installation.
- Combustion air openings shall not be obstructed.
- This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against US federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.

PRÉVENEZ LES INCENDIES

- Installer et utiliser conformément au manuel d'installation du fabricant.
- Contacter les autorités de votre localité ayant juridiction concernant les restrictions et inspections d'installation.
- Utiliser des tuyaux d'évacuation à parois simple ou double homologués d'un diamètre de 6 po. (152 mm) avec une cheminée préfabriquée approuvée UL 103 HT (US) et ULC 5629 (CAN) pour utilisation au bois ou une cheminée de maçonnerie gainée.
- Voir les codes locaux et le manuel d'installation du fabricant pour le passage de la cheminée à travers un mur ou un plafond combustible.
- Ce poêle doit être installé comme appareil de chauffage autonome avec les dégagements indiqués dans les instructions d'installation du fabricant. Il est strictement défendu d'installer ce poêle dans un foyer préfabriqué.
- Ne pas traverser un plafond ou un mur combustible avec un tuyau d'évacuation.
- Ne pas raccorder cet appareil à une cheminée desservant un autre appareil.
- Pour l'usage avec du combustible solide seulement. Ne pas utiliser d'autres combustibles.
- Garder la porte fermée ou le pare-étincelle en place en tout temps. Ouvrir la porte ou retirer le pare-étincelle que lors du chargement.
- Ne rien entreposer sous l'appareil.
- Ne pas utiliser de grilles ou de chenets pour surélever le feu. Préparer le feu directement sur l'âtre.
- Ne pas surchauffer. Si l'appareil ou le tuyau rougit, il y a surchauffe.
- Inspecter et nettoyer la cheminée fréquemment. Sous certaines conditions, l'accumulation de crésote peut être rapide.
- Remplacer la vitre seulement avec un verre de céramique.
- Installer l'appareil sur une plaque non combustible tel qu'indiqué sur l'étiquette.
- Poêle approuvé pour maison mobile.
- Les entrées d'air servant à la combustion ne doivent pas être obstruées.
- Cet appareil de chauffage requiert des inspections et réparations périodiques. Consulter le manuel de l'utilisateur pour plus d'information. Opérer cet appareil de chauffage de façon inconsistante par rapport au manuel de l'utilisateur constitue une violation de la loi fédérale (USA).

Optional blower: (115V, 0.8A, 60Hz) Option ventilateur: (115V, 0.8A, 60Hz)

U.S. ENVIRONMENTAL PROTECTION AGENCY Certified to comply with 2020 particulate emission standards using cordwood.
AGENCE DE PROTECTION DE L'ENVIRONNEMENT DES É.-U. Conforme aux normes d'émission de particules de 2020 avec bûche de bois.

Weighted average emission rate / Moyenne pondérée des émissions: 1.8 g/h
Tested and certified in compliance with CFR 40 part 60, subpart AAA, section 60.534(a)(1)(ii)

WARNING: This product can expose you to carbon monoxide, which is known to the State of California to cause cancer, birth defects or other reproductive harm. (For more information go to www.p65warnings.ca.gov)

CAUTION

- HOT WHILE IN OPERATION.
- DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
- CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

ATTENTION

- CHAUD EN FONCTIONNEMENT.
- NE PAS TOUCHER. GARDER LES ENFANTS, LES VÊTEMENTS ET LES MEUBLES ÉLOIGNÉS.
- UN CONTACT AVEC LA PEAU PEUT OCCASIONNER DES BRÛLURES. VOIR LES INSTRUCTIONS.

27863
Made in St-Augustin-de-Desmaures (Qc), Canada
16/06/2022 (# test)

Fabricant de poêles international
Stove Builder International

Fabrique à St-Augustin-de-Desmaures (Qc), Canada
16/06/2022 (# test)

Appliance make

Intertek Warnock-Hersey. Another common testing lab, similar to ETL



LISTED SOLID FUEL BURNING SPACE HEATER POÊLE À COMBUSTIBLES SOLIDES HOMOLOGUÉ

TESTED TO:
MIS À L'ÉPREUVE SELON:
UL 1482 / ULC S 627-00

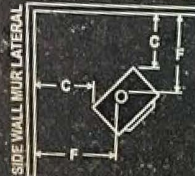
WH 357559

CONTACT LOCAL BUILDING OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION IN YOUR AREA. A MINIMUM CLEARANCE OF 18 INCHES (457mm) TO THE CHIMNEY CONNECTOR MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
RENSEIGNEZ-VOUS AUPRÈS DES RESPONSABLES LOCAUX DE LA CONSTRUCTION ET DE LA PRÉVENTION DES INCENDIES AU SUJET DES RESTRICTIONS ET INSPECTIONS D'INSTALLATION DANS VOTRE SECTEUR. UN ESPACE DE 18 POUCES (457mm) JUSQU'AU RACCORD DE LA CHEMINÉE PEUT ÊTRE EXIGÉ PAR LE CORPS CONSTITUÉ AYANT JURISDICTION.

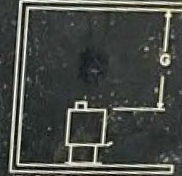
BACK WALL / MUR ARRIÈRE



BACK WALL / MUR ARRIÈRE



CEILING / PLAFOND



FLOOR / PLANCHER

DIMENSIONS: INCHES (mm)

WITH SINGLE WALL CONNECTOR / AVEC RACCORD DE CHEMINÉE À PAROI SIMPLE

MODEL:	A	B	C	D	E	F	G
S24XE	18(457)	15(381)	7(178)	25-1/2(648)	17-1/2(455)	15(381)	56(1422)
S27XE	17-1/2(445)	13(330)	11(279)	28(711)	15-1/2(395)	22(559)	54-1/2(1384)
S28XE	17-1/2(445)	13(330)	11(279)	28(711)	15-1/2(395)	22(559)	54-1/2(1384)
FW240XXX	18(457)	15(381)	7(178)	25-1/2(648)	17-1/2(455)	15(381)	56(1422)
FW270XXX	17-1/2(445)	13(330)	11(279)	28(711)	15-1/2(395)	22(559)	54-1/2(1384)

FUEL: FOR USE WITH WOOD ONLY. DO NOT USE GRASS TO ELEVATE FIRE - BUILD FIRE DIRECTLY ON HEARTH.
DO NOT OBSTRUCT SPACE UNDER HEATER.
SPECIAL METHODS ARE REQUIRED WHEN PASSING THROUGH A WALL OR CEILING. SEE INSTRUCTIONS AND BUILDING CODES.
DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.
FOR SAFE OPERATION, INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
KEEP HEATER DOOR CLOSED WHILE IN OPERATION.
PREVENT HOUSE FIRES.
INSTALL AND USE ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LOCAL BUILDING CODES.
FLOOR PROTECTION: UNIT MUST BE PLACED ON A 3/8 IN. (9.5mm) MILLBOARD PAD OR EQUIVALENT (3/4 IN. (19mm) MILLBOARD IN U.S.) EXTENDING 18 IN. (457mm) FOR CANADA 16 IN. (406mm) FOR U.S.A. IN FRONT, AND 6 IN. (152mm) ON THE SIDES AND BACK OF UNIT.
CHIMNEY CONNECTOR: MINIMUM 6 IN. (152mm) DIAMETER.
CHIMNEY CONNECTOR: 6 IN. (152mm) DIAMETER MINIMUM 24 GAUGE STEEL.

COMBUSTIBLE: POUR USAGE AVEC BOIS SEULEMENT. NE PAS UTILISER DE CHENETS POUR ÉLEVER LE FEU - CONSTRUIRE LE FEU DIRECTEMENT SUR LES BRIQUES. NE RIEN ENTREPOSER SOUS L'APPAREIL. DES MÉTHODES SPÉCIALES SONT REQUISES LORS DU PERÇAGE D'UN MUR OU PLAFOND. VÉRIFIER LES DIRECTIVES ET LES CODES DE CONSTRUCTION. NE PAS RACCORDER À LA CHEMINÉE D'UN AUTRE APPAREIL. POUR UTILISATION SÉCURITAIRE, SUIVRE ATTENTIVEMENT LES INSTRUCTIONS DU FABRICANT. MAINTIEN LES PORTES DU POÊLE FERMÉES PENDANT LE FONCTIONNEMENT.
PRÉVENEZ LES INCENDIES.
POUR INSTALLATION ET UTILISATION CONFORME AUX INSTRUCTIONS DU FABRICANT ET AUX CODES LOCAUX DE BÂTIMENT.
PROTÈGEZ PLANCHERS: L'APPAREIL DOIT ÊTRE PLACÉ SUR UNE PLAQUE INCOMBUSTIBLE DE 3/8 PO. (9.5mm) OU ÉQUIVALENT (3/4 PO. (19mm) E.U.) S'ÉTENDANT 18 PO. (457mm) AU CANADA ET 16 PO. (406mm) POUR L'ÉTAT-UNIS À L'AVANT ET 6 PO. (152mm) À L'ARRIÈRE ET SUR LES CÔTÉS DE L'APPAREIL.
TYPE DE CHEMINÉE: DIAMÈTRE MINIMAL 6 PO. (152mm) APPROUVÉE POUR USAGE RÉSIDUEL.
RACCORD DE CHEMINÉE: DIAMÈTRE 6 PO. (152mm) ÉPAISSEUR CALIBRE 24 ACIER.

OPTIONAL BLOWER: MODEL S31105
120 VOLTS FREQ 60Hz 0.75 AMPS 2900RPM

SOUFFLERIE FACULTATIVE: MODÈLE S31105
120 VOLT FREQ 60Hz 0.75 AMPS 2900RPM

DANGER: RISK OF ELECTRIC SHOCK
DISCONNECT POWER BEFORE SERVICING UNIT.

DANGER: RISQUE DE SECOURS ÉLECTRIQUE
DÉBRANCHEZ AVANT DE PROCÉDER À L'ENTRETIEN.

U.S. ENVIRONMENTAL PROTECTION AGENCY
CERTIFIED TO COMPLY WITH JULY 1990 PARTICULATE EMISSION STANDARDS

DATE OF MANUFACTURE:
DATE DE FABRICATION:

MADE IN CANADA BY:
FABRIQUÉ AU CANADA PAR:
919582 REV 4

CFM Corporation
Mississauga, Ontario

Sometimes labels will display multiple makes of appliances. Pay close attention to the area beside the makes, there should be a scratch or hole punched to show which model of appliance it is

- If the appliance has no label, or there is no testing lab symbol stating the CSA/ULC standard, the appliance must be considered uncertified

Mobile Home Installations

- Certified to ULC-S627
- Wood burning appliances installed in mobile homes must be certified for use in mobile homes and state on the label
- An appliance certified for use in mobile homes typically;
 - Is provided with hardware for venting through combustible construction, installation on a combustible floor, and an outdoor combustion air kit
 - Has provision for being attached to the floor
 - Is connected to the chimney by certified double wall pipe

Garage/Workshop Installations

A wood burning appliance must not be installed in a location where a corrosive atmosphere, flammable gas or vapor, combustible dust, or combustible fibers might be present. It may be installed in a

- storage or residential garage, provided that the appliance is mounted in such a manner that any component representing a source of ignition, such as a blower or the bottom of the firebox, ash cleanout, is at least 450 mm (18 in) above floor level and protected against physical damage; or
- commercial repair garage or other facility used for the maintenance of equipment that might involve volatile flammable substances, provided that
 - the appliance is located in a room that is separated from the remainder of the building by a vapor-tight fire separation;
 - the room specified above is not directly accessible from the location of the volatile substances; and
 - all duct penetrations of the vapor-tight fire separation are located at least 2 m (6.5 ft) above the floor level.
- Metals, plastics, and wood are considered to be combustible dust. Wood burning appliances must not be installed in this type of environment.

Chimneys

- A solid fuel burning appliance can not vent into the same chimney as a propane fired appliance
- Only solid fuel burning appliances certified for use with oil fired equipment shall connect to a vent system serving an oil-fired appliance
 - If the solid fuel burning appliance is certified for use with oil fired equipment, it should say on the label
 - There are no wood stoves certified for use with oil fired equipment
- Two or more appliances shall not be connected to the same chimney unless;
 - The appliances are on the same floor
 - The flue pipes are connected to a manifold as close to the chimney as practicable, or directly to the chimney in the following order;
 - If only solid fuel is used, the smallest diameter flue pipe is above
 - If different fuels are used, the solid fuel flue pipe is below
- If the chimney extends five feet or more from the roofline, it must be braced

Brick Shell Clay Lined



- Clay lined can only withstand one flue fire
- Must be able to see the clay protruding from the top, and see the clay at the bottom of the cleanout
- Check for missing brick and mortar, freeze/thaw damage can cause severe damage within a few years
- Masonry chimney's fall under the regulations of National Building Code of Canada

Brick Shell Stainless Steel Liner



- Stainless steel liners are certified to ULC-S635 and ULC-S640, uncertified, homemade liners are not to be used
- Liner must protrude out top of masonry, and continue to bottom of chimney

Metal Pre-fab



- Metal pre-fab chimneys venting a wood fired appliance must be certified to ULC-S629
- The stickers that show the certification will usually fall off. All chimneys certified to ULC-S629 have two inches of insulation. If the inside diameter of the chimney is six inches, the outside diameter will be ten inches. The inside diameter of the chimney will match the size of the flue pipe
- Must extend a minimum of one meter (three feet) above where the chimney comes in contact with the roof. The top 600 mm (two feet) of the chimney must extend above any adjacent structure within ten feet horizontally
- Metal pre-fab chimneys that pass through any occupied area (including closets) must have an enclosure built around it. The minimum air space around the chimney is two inches
- Metal pre-fab chimneys must terminate at the ceiling of the room where the wood appliance is and at a ceiling support kit. The wood appliance is not meant to take the weight of the chimney
- Because this type of chimney is a certified component, it can only be used with certified equipment of the same make and model. An Excel chimney can not be used with Selkirk supports or a homemade bracket

Pellet Vent



- Certified to ULC-S609
- Pellet vent is smaller in diameter than other chimney systems
- Can be vented through the roof or side vented through an exterior wall
- If vented through exterior wall, vent should rise a minimum of four feet so natural draft can take over in the event of a power failure
- Because it can be side vented, manufacturers installation methods must be checked for proper distances to windows and overhangs

Brick Shell Unlined



- If liner is not visible, safety surveyor inspection required
- Unlined chimneys venting a wood appliance build creosote very easily and are high risk for chimney fires

Bracket Type



- High risk of collapsing and causing severe damage
- Not insurable, underwriting should be notified immediately



A-Type/Square-A



- Square steel chimney, sometimes has fake brick wrap on it
- Not to be used to vent a wood burning appliance
- If any wood appliance is venting into this type of chimney, it must be disconnected immediately and not be used

Venting System

Single Wall Pipe

- Only part of the entire system that can be uncertified
- Regulations come from B365 Installation Code
- Single wall flue pipes shall;
 - Have non-combustible supports at max intervals of one meter of horizontal length
 - Not exceed three meters
 - Not exceed 180 degrees change of direction
 - Be designed to allow for expansion (elbow, telescopic section)
- Galvanized steel must not be used
- The crimped end of the pipe must point towards the appliance and be mechanically fastened with three screws a joint
- Must not pass through floor, ceiling, closet or any concealed space
- Minimum clearance of 450 mm (18 inches) to combustible material
- If proper shielding is used, clearances can be reduced by 50%

Double Wall Pipe

- Certified to ULC-S641
- Most commonly certified to six inch clearance
- Manufacturers installation requirements must be followed
- Must not pass through floor, ceiling, closet or any concealed space
- Because this type of vent pipe is a certified component, it can only be used with certified equipment of the same make and model. Can not be mixed with single wall pipe

Shielding

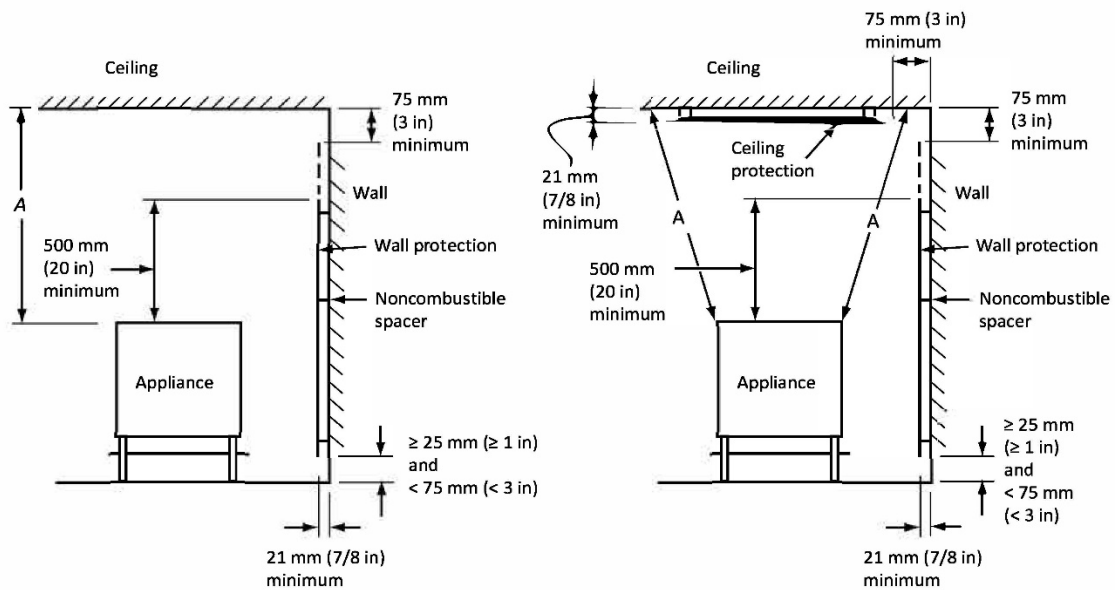
CSA B365 allows for a reduction in clearances for certified equipment with the use of a certified heat shield or if the following requirements are met;

- Wall protection shall be installed to provide clearance along the bottom of the shield equivalent to at least 25 mm (1 in) and not more than 75 mm (3 in), and clearance along the top of the shield of at least 75 mm (3 in), to allow a vertical flow of air. This protection shall extend at least 500 mm (20 in) above the appliance and at least 450 mm (18 in) beyond the sides of the appliance, as shown in figure 6
- The wall protection shall be separated at least 21 mm (7/8 in) from the combustible material by noncombustible spacers
- Ceiling protection shall be sized in accordance with Figure 6 and shall have a minimum edge clearance of 75 mm (3 in) on all sides.
- If an adhesive is used to support noncombustible material, it shall not ignite or lose its adhesive qualities at temperatures likely to be encountered.
- The wall protection mounting hardware shall be installed to allow full vertical ventilation. Such hardware shall be placed not closer than 200 mm (8 in) from the vertical centerline of the appliance [see Figure 6 b)], except for diagonal corner installations [see Figure 6 c)]. Wall protection mounting hardware that extends from the surface of the shield into combustible material may be used only at the lateral extremities of the shield.
- Minimum clearances to any unprotected portions of walls and ceilings shall be maintained.

B365-17

Installation code for solid-fuel-burning appliances and equipment

Figure 6
Application of wall and ceiling protection

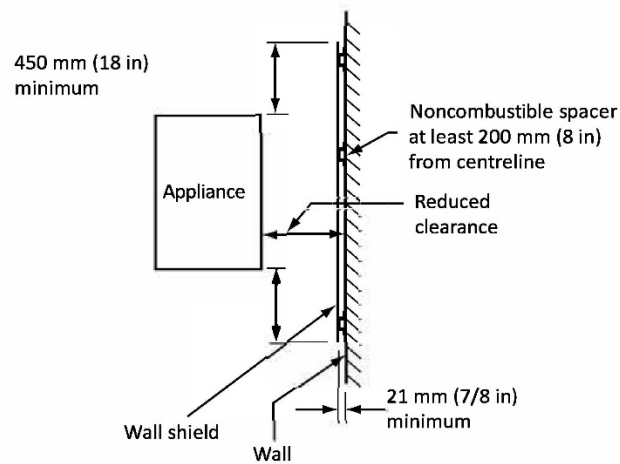


Note: The ceiling protection applied shall extend far enough in each direction to produce the required clearance, A.

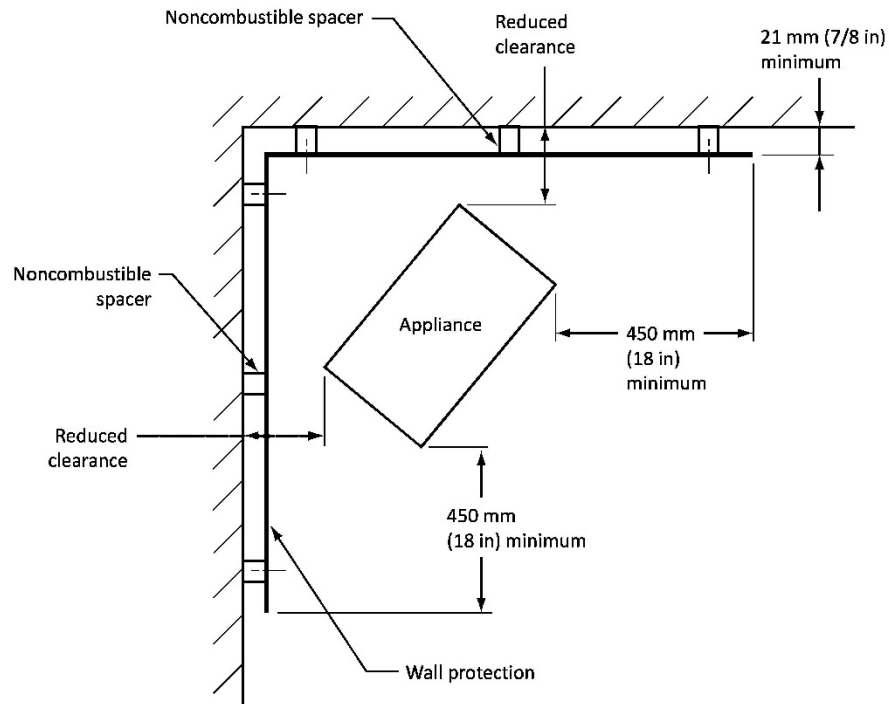
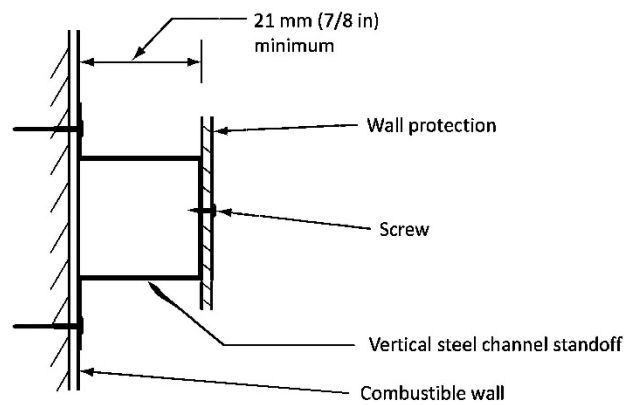
Legend:

A = the required clearance to combustible ceiling construction with no protection

a) Elevation



b) Top view

Figure 6 (Concluded)**c) Corner installation, top view****d) Noncombustible spacer (vertical channel standoff), top view**

If proper shielding requirements are met, the clearances to combustibles are reduced by the following;

B365-17

Installation code for solid-fuel-burning appliances and equipment

Table 3
Reduction in appliance and ductwork clearances from combustible material with
specified forms of protection
 (See Clause 8.2.4.)

Type of protection (shield)	Permitted reductions in clearance, %	
	Sides and rear	Top
Sheet metal, a minimum of 0.47 mm (28 gauge) in thickness, spaced out at least 21 mm (7/8 in) by noncombustible spacers	67	50
Ceramic tiles, or equivalent noncombustible material, on noncombustible supports spaced out at least 21 mm (7/8 in) by noncombustible spacers	50	33
Ceramic tiles, or equivalent noncombustible material, on noncombustible supports, with a minimum of 0.47 mm (28 gauge) thick sheet metal backing spaced out at least 21 mm (7/8 in) by noncombustible spacers	67	50
Brick, spaced out at least 21 mm (7/8 in) by noncombustible spacers	50	N/A
Brick, with a minimum of 0.47 mm (28 gauge) thick sheet metal backing, spaced out at least 21 mm (7/8 in) by noncombustible spacers	67	N/A

Inspection Practices

- Upon arrival, note the type of chimney and liner
 - Are there any obstructions within ten feet horizontally of the top of the chimney?
 - Approximately how far does it extend from the roof, should it be braced?
- Check wood burning appliance for label, and take note of make/model and required clearances
- Measure from sides/rear/corners of appliance to the closest combustible material. If there is a non-combustible material, (brick behind the appliance) measurement is taken through the brick to the closest combustible
- Measure floor pad, other than pellet stoves, the requirement for the floor pad is;
 - Non-combustible, durable, and continuous;
 - 18 inches in front of fuel loading doors; and
 - 8 inches beyond all other sides
- Check appliance components for damage or disconnection
 - Door/glass gasket, firebox, fire brick
 - Automatic draft controls
 - While checking components, pay close attention to items that don't look factory installed. Modified components (welded, replaced by something other than factory parts, additional parts installed) void the certification and are not allowed
- Inspect venting system
 - Does the appliance vent into the same liner as another appliance?
 - Double wall or single wall pipe
 - Check clearances, length of pipe, total degrees change of direction, crimped end toward the appliance, three screws a joint
 - if metal pre-fab chimney
 - Is there a proper ceiling support kit?
 - Is the chimney enclosed on upper floors?
 - If visible, is there any damage/dents?
- If shielding is installed;
 - Does it meet the required distance beyond the top (20 inches) and sides (18 inches) of the appliance?
 - 1 to 3 inches off the floor?
 - 1 inch off the wall with non combustible spacers?
 - Allows for a vertical flow of air?
- Wood burning appliances must be a minimum of 5 feet from an oil storage tank

When inspecting a wood burning appliance, if you are unsure of anything or find a red flag, submit an endorsement with the appropriate wood code (FWI) for an inspection.