

3. CLEARANCES FOR UNCERTIFIED APPLIANCES

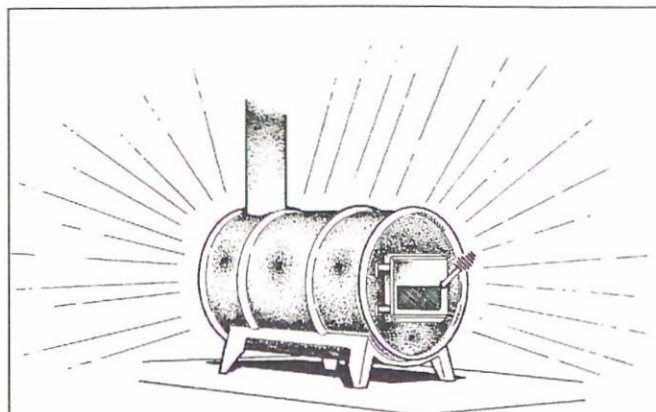
3.1 Background

The exact heat radiating characteristics of uncertified appliances are unknown because no tests have been conducted. As a result, the clearance specifications in B365 are based on “worst case” assumptions about the amount of radiant heat energy emitted at maximum firing rate by the largest appliance expected to be found in homes. Visualize a barrel stove at full fire with its sides glowing red hot and you can appreciate why the clearances for uncertified appliances are so large.

For many years, building codes specified 36" as the minimum distance from combustibles that a wood burning appliance should be installed. But more recently, laboratory tests have shown that large appliances can cause combustibles to overheat when placed 36" away. That is why the traditional clearance was changed to 1200 mm (48") in the 1984 edition of B365.

3.2 Minimum Installation Clearances (Standard B365-01; Table 2)

While it does not promote their use, Standard B365 includes clearance requirements for uncertified appliances. Table 3 refers to appliances that have not been tested and labelled. Use it as your reference for interpretations of clearance requirements. The notes at the bottom of the table define the requirements and form a mandatory part of the clause.



UNCERTIFIED SPACE HEATER

The minimum clearances for uncertified space heaters are based on the heating characteristics of large, simple appliances like this barrel stove.

The minimum clearance to the sides and rear of an uncertified appliance without shielding is 1200 mm (48"). If the appliance has a sheet metal jacket or a heat shield attached that is spaced out 50 mm (2") from the surface of the appliance and is vented at the top and bottom, the appliance can be installed 900 mm (36") from combustibles.

The standard clearance in front of a loading door is 1200 mm (48") for all appliances, certified or not. This provides room for fuel loading, ash removal and maintenance. If the appliance has loading doors on more

TABLE 2 OF CSA B365 2001

Clearances to Combustible Material for Appliances Using Solid Fuel
(Forming part of Clause 7.2.3)

Minimum clearance, mm (in)

Application	Top	Sides, rear and corner	Fuelling and ash removal sides
Appliances with no shielding	1500 (60)	1200 (48)	1200 (48)
Appliances with shielding *	1500 (60)	900 (36)	1200 (48)

* Shielding consists of protection such as external jacketing or metal heat shield attached to the sides and rear of the appliance and spaced out at least 50 mm (2 in) by non-combustible spacers, with provision for air circulation at bottom and top.

Note: Clearances shall be measured from the outer surface of the appliance to the combustible material; the protection applied over the combustible material is disregarded.