Floor protection for listed appliances shall be installed in accordance with the terms of the listing.

A manufactured floor protector or hearth extension product which has been tested and listed for the type of installation desired shall be installed in accordance with the terms of the listing.

Floor protection for unlisted appliances shall be provided by one of the following methods:

1. If there is 6" or more clearance between the bottom of the appliance and the floor protection, the floor shall be protected by at least a sheet of 1/4" asbestos cement board or equivalent, covered with a continuous sheet of 24 gauge sheet metal.

2. Where there is less than 6" of clearance between the bottom of the appliance and the floor protection, the floor shall be protected with 4"-thick hollow masonry units arranged with the sides aligned to allow free air circulation through the floor protector. The hollow masonry shall be covered with 24 gauge sheet metal.

Any of the preceding hearth extension assemblies for protecting the floor, which may be covered with a noncombustible tile, slate, masonry product, or other noncombustible material for a decorative appearance.

The minimum dimensions of the floor protection are:

18" beyond a door or opening
12" beyond the rear
12" beyond the sides

If a reduced clearance to the wall is used, extend the hearth assembly all the way back to the wall.

When installing a zero clearance fireplace, a 4'-wide piece of 20 gauge metal shall be centered under the joint between the hearth extension and the front of the firebox.

Wall Protection - Reduced Clearance

In most cases, the walls of your home are constructed of combustible materials. Wood studs covered with plasterboard is considered a combustible assembly. It is only a matter of time in proportion to the amount of heat applied before pyrolysis occurs in the wood framing. This can often result in spontaneous combustion if oxygen is present. It should be obvious, then, that the clearances specified in the terms of the listing, in the case of listed appliances, and the 4" specified for unlisted radiant wood heating appliances, are extremely important. Air spaces and air circulation are the best protection available. For this reason, it should also be obvious that applying brick, tile, cement asbestos board, or other noncombustible materials directly to the surface of a combustible wall will not provide adequate protection. The dense, noncombustible material will conduct the heat right through to the wall. Pyrolysis can still occur.

Where it is desirable to reduce the distance (clearance) from the appliance to a combustible wall, one of the following methods of protection must be employed:

1. A listed wall shield may be installed in accordance with the terms of the listing. This will normally include an air space between the wall and the shield.

2. Listed appliances shall be installed, with the clearances specified in the terms of the listing. If a reduced clearance provision using a protective shield is not specified in the terms of the listing, Table B (page 10) shall be used, starting with the listed clearance. If the listed clearance is not found in Table B, then start with the next clearance that is more restrictive.

3. A wall shield may be constructed of masonry units provided it is spaced out from the existing wall at least 1" and the framing below is adequate to carry the added weight. Wall ties must be used to hold the masonry wall in place. Leave each vertical joint open at the top and bottom for air circulation.

4. A wall shield may be constructed using the clearances and materials specified in Table B. A minimum air space of 1" is required, regardless of the material used. Final clearances are measured from the outer surface of the appliance to the original wall surface. Again, provide openings at the top and bottom for air circulation.

5. A wall shield may be approved by the Building Official when constructed of materials other than those found in Table B, provided the material is noncombustible and equal in strength, heat transmission and durability to the materials specified in Table B. A minimum air space of 1" is required, regardless of the material used. Maintain the 1" openings at the top and bottom and terminate the shield 18" from the floor or ceiling.
**TABLE A**

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<th>Code</th>
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</table>

**WARNING:**

- Use only UL-listed connectors.
- Check the electrical requirements before installation.
- Ensure that the connector is compatible with the flange.
- Always use the correct type of connector for the application.

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**Diagram of Connector Installation**

Insert the connector into the female fitting. Ensure that it is fully seated and tightened according to the manufacturer's instructions. Check for proper alignment and torque to prevent damage to the connectors or the electrical system.

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**NOTES:**

- The connector must be properly inserted and tightened to ensure a proper electrical connection.
- Always use the correct type of connector for the application.
- Check the electrical requirements before installation.
- Ensure that the connector is compatible with the flange.