

## POSITIONING THE STOVE

It is very important to position the pellet stove as close as possible to the chimney, and in an area that will favor the most efficient heat distribution possible throughout the house. The stove must therefore be installed in the room where the most time is spent, and in the most spacious room possible. Recall that wood pellet stoves produce radiating heat, the heat we feel when we are close to a wood pellet stove. A wood pellet stove also functions by convection, that is through the displacement of hot air accelerated upwards and its replacement with cooler air. If necessary, the hot air distribution from the stove may be facilitated by the installation of an optional blower.

The appliance must not be hooked up to a hot air distribution system since an excessive accumulation of heat may occur. This appliance must never be installed in a hallway or near a staircase, since it may block the way in case of fire or fail to respect required clearances.

## FLOOR PROTECTOR

Your wood pellet stove should be placed on a 1 inch, non-combustible surface with a k factor of 0.84. For multiple layers, add R-values of each layer to determine the overall R-value. The R value for the required board is 1.2. If there is a horizontal section of chimney connector, the floor protector should go under it and 2 inches beyond each side

Convert specification to R-value:

k-factor is given with a required thickness (T) in inches:  $R=1/k \times T$

C-factor is given:  $R=1/C$

Example:

If the floor protector is 4" brick with a C-factor of 1.25 over 1/8" mineral board with a "k" factor of 0.29 the total R-value of the system is:

4" brick C=1.25,  $R=1/1.25=0.8$

1/8" mineral board K=0.29,  $R=1/0.29 \times 0.125=0.431$

Total R =  $R_{brick} + R_{mineral} = 0.8 + 0.431 = 1.231$

Total R is greater than 1.2, the system is acceptable.

The floor protector should exceed the stove as follows:

