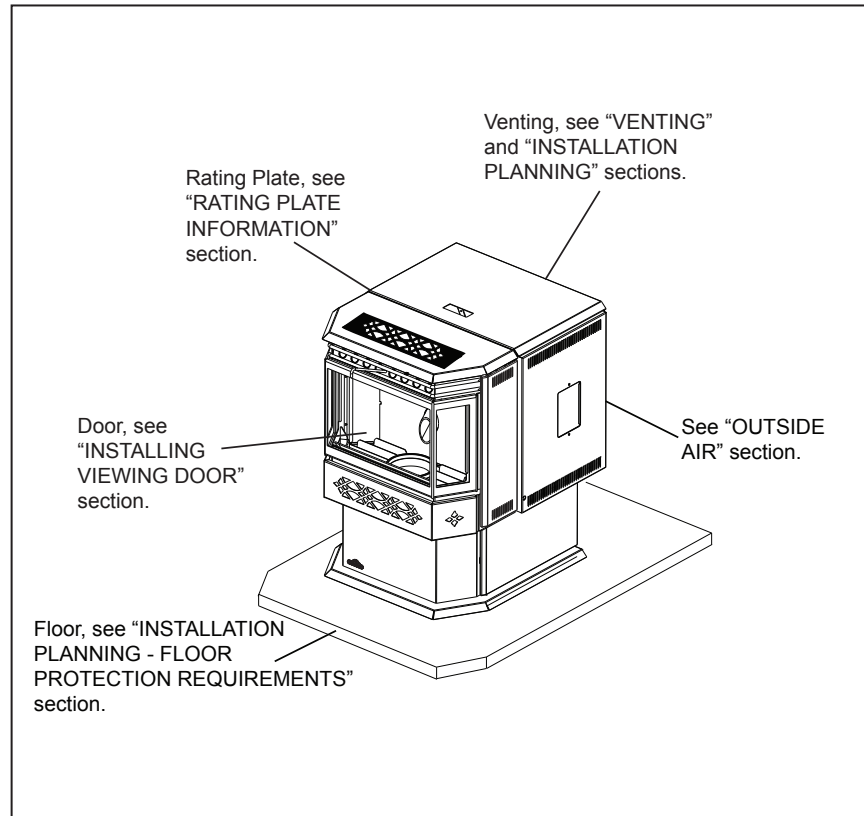


ECO PELLET STOVE

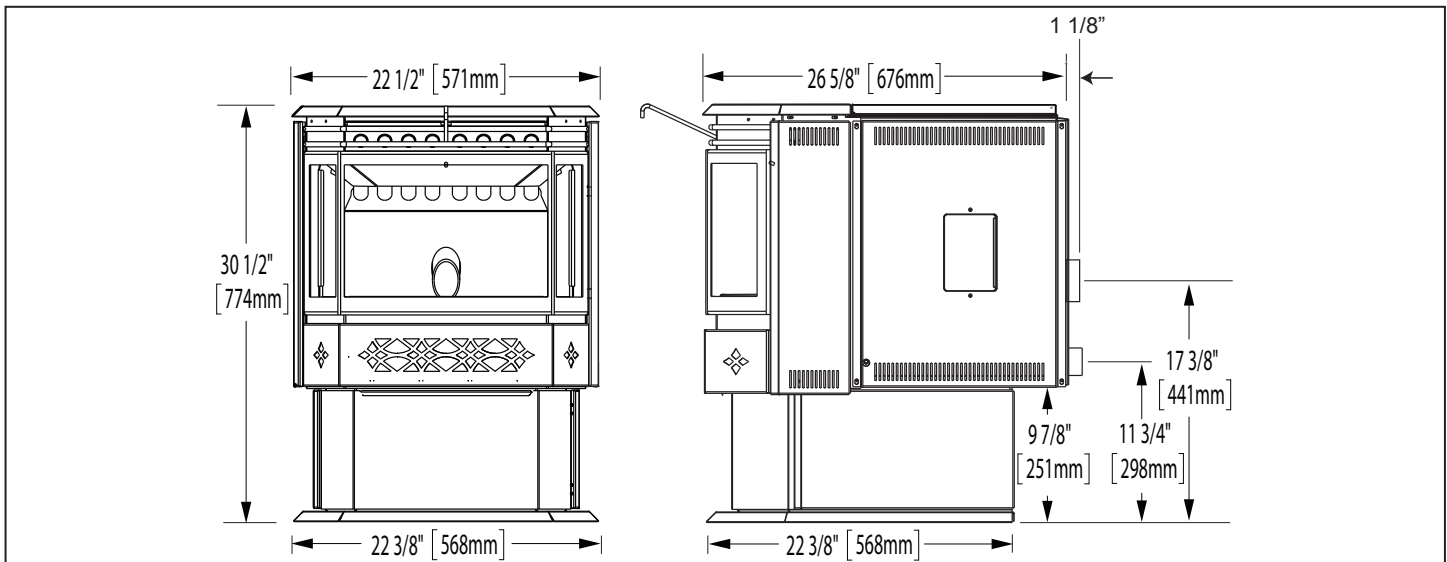
Specifications

Model	BTU	Width	Height	Depth	Hopper Capacity	Glass
NPS45	42,500	22 3/8"	30 1/2"	22 3/8"	55 Pounds	12 3/8" x 21"

Overview



Dimensions



ECO PELLET STOVE

Framing & Clearances

Minimum Fireplace Clearances

STRAIGHT INSTALLATION
Through the Wall Installations complete with outside air

CORNER INSTALLATION
Through the Wall Vents complete with outside air

NOTE: If interior vertical pellet vent is used, the clearance to the back wall is determined by the upward-turning elbow or "Tee". It will vary in depth depending on the brand of pellet vent used (it is approximately 5" (127mm)). Before placing the appliance, connect the elbow or "Tee" and allow for the minimum 3" (76mm) clearance to the combustible wall.

Vent Terminal Clearances

NOTE: Illustration dimensions are to the center of the exhaust exit point of the vent.

CLEARANCES		
A	12" (304.8mm)	Clearance above grade, veranda porch, deck or balcony. (Including vegetation and mulch)
B	9" (228.6mm)*	Clearance beside or below any windows or doors that open.
	12" (304.8mm)*	Clearance above any window or door that opens.
C	18" (457.2mm)	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (0.6m) from the center line of the terminal.
D	0" (0mm)	Clearance to an outside corner wall.
E	3" (0.9m)	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.)
F	9" (228.6mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
G	3" (0.9m)	Clearance to a mechanical air supply inlet.
H	7' (2.1m)**	Clearance above a paved sidewalk or paved driveway located on public property.
I	12" (304.8mm)**	Clearance under a veranda, porch, deck or balcony.
J	24" (609.6mm)	Clearance above the roof.
K	2" (0.6m)	Clearance from an adjacent wall including neighbouring buildings.
L	3' (0.9m) within a height of 15 feet (13.7m) above the meter / regulator assembly	Clearance to each side of center line extended above natural gas or propane meter / regulator assembly or mechanical vent.

* Recommended to prevent condensation on windows and thermal breakage
** This is a recommended distance. For additional requirements check local codes.

Product information provided is not complete and is subject to change without notice. Please consult the installation manual for the most up to date installation information.

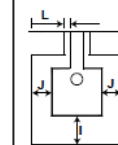
Alcove Installation Requirements

Minimum Alcove Dimensions

Floor Protection Requirements

THERMAL PROTECTOR:
This appliance must be installed on a non-combustible thermal protector that extends to the front, sides and back of the appliance as per the minimum requirements below.

NOTE: Floor protection is required for spark and ash shielding, and for limiting floor temperatures from the radiant heat of the appliance.



MINIMUM FLOOR PROTECTION		
FRONT (I)	SIDES (J)	VENT (L)
6" (152mm)	6" (152mm)	2" (51mm)

The thermal protector must have an overall R-Value of 1.0. For multiple layers, add R-Values for each layer to determine the overall R-Value.

CONVERTING MATERIAL SPECIFICATIONS TO R OR K VALUES

$R = \text{Thickness} / K\text{-Value}$
 $K = \text{Thickness} / R\text{-Value}$

COMMON K AND R VALUES CHART		
MATERIAL	K-VALUE	R-VALUE
	Per inch	Per inch
Micore 300	0.43	2.33
Wonderboard (cement board)	1.92	0.52
Common Brick	5.00	0.20
Cement Mortar	5.00	0.20
Ceramic Tile	12.50	0.08
Marble	11.00	0.09
Air Space (ventilated)	0.70	1.43
Sand and Gravel	1.70	0.59
Drywall (gypsum)	1.00	1.00
Rockwool or Fiberglass Batts	0.30	3.33

With K values, the lower value is a better insulator. With R values, the higher number is better.

K-Value Example:

A wood stove may call for thermal protection which has a K factor of 1 or less. A product such as Micore 300 Board from USG has a K-Value of approximately .43 per inch. Therefore, a 1/2" (12.7mm) thickness of this board would have a K-Value of .86, which meets the requirement of our example stove.

R-Value Example:

This fireplace calls for thermal protection with an R-Value of 0.59. This same board above is rated as having an R-Value of 2.33 for a 1" (25.4mm) thickness. Therefore, 1/2" (12.7mm) of the Micore 300 Board would have a R-value of 1.165, which meets the specifications for this fireplace.