

# KS55 Mesh Barrier - Single Sided Gas Fireplace

Information Sheet for Builders and Architects

FIRE BY **escea.**

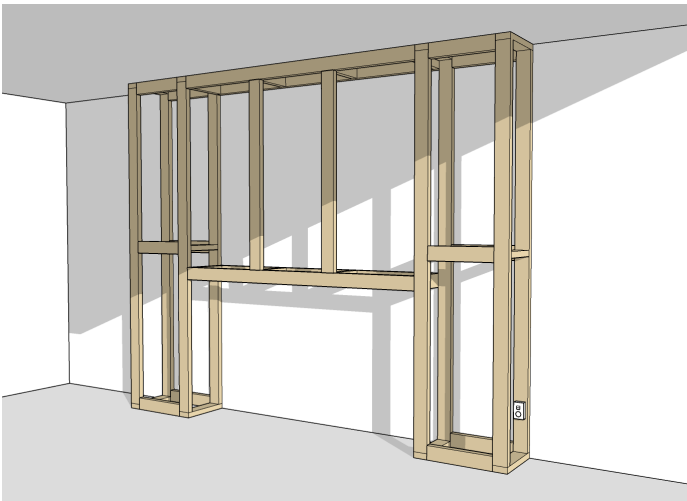
## SPECIFICATIONS

<b>Model No.</b>	NBS5525
<b>Gas Input (NG/Propane)</b>	45,000 BTU-hr/42,000 BTU-hr
<b>Heat Output (NG/Propane)</b>	28,485 BTU-hr/27,762 BTU-hr
<b>Gas Connection</b>	Lower center of fireplace
<b>Gas Type</b>	Natural Gas / Propane
<b>Power Requirement</b>	3 pin, 110/120V mains power
<b>Appliance Weight</b>	352.7 lbs
<b>Fuel Bed/Media</b>	Traditional Logs, Riverbed, Crushed Glass
<b>Finish Options</b>	Frameless
<b>Connections</b>	Right-hand side of the fireplace
<b>Duct Vent</b>	Not Required
<b>Fireplace Chase Venting</b>	Not Required
<b>Clearance to Combustibles</b>	Zero clearance from fireplace surfaces
<b>Service Access Hatch</b>	Not Required

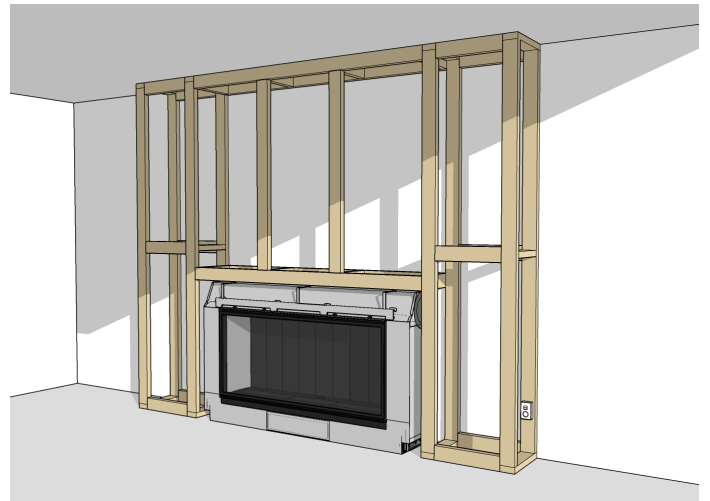


<b>Vent System</b>	Power direct-vent with 4" x 6 3/8" vent pipe*
<b>Vent Termination Locations</b>	Roof or Wall mounted Terminations
<b>Minimum Vent Length</b>	24"
<b>Maximum Vent Length</b>	50' (600")
<b>Vent Clearances to Combustibles</b>	3" above vent, 1" to sides/below vent
<b>Vent Bends Allowed</b>	6 @ 90° and 12 @45°
<b>Compliance</b>	Certified to ANSI Z21.88/CSA 2.33

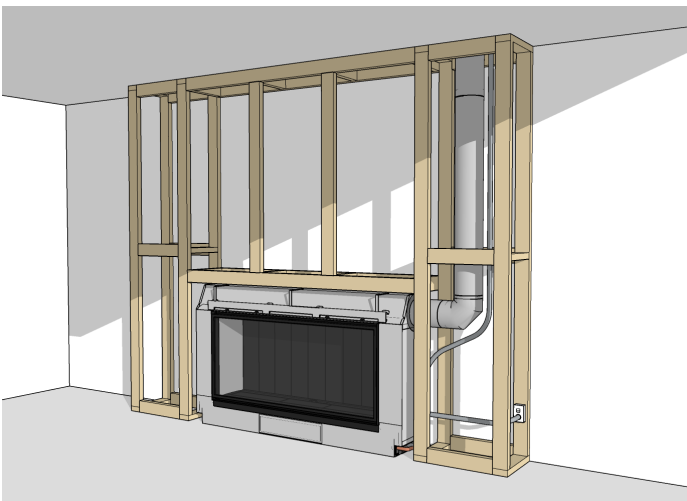
## INSTALLATION



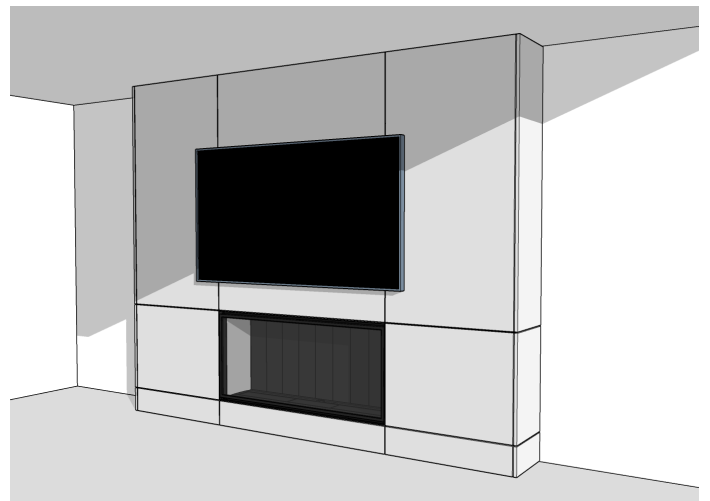
Construct the wood framing following all minimum fireplace chase opening requirements and with consideration to vent pathways. Provide a continuous base for the fireplace. Allow for mains power connection and an accessible isolation switch.



Install the appliance into the preformed opening in the chase. Secure to the framework using the supplied nailing flanges. The fireplace should be flush with the wood framing.



Install the electrical connection and gas supply. Connect the vent pipe to the fireplace and construct vent pathway to the vent termination. Connect Power-vent electrical supply from the fireplace to the vent termination.



Fix the wall linings to the framework and the fireplace leaving a 1/4" gap to the glass opening. The wall lining can be bonded directly to the fireplace. Install any additional finishes or fixtures to complete the project.

\*Refer to the Escea KS Flue Information Sheets

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## FIREPLACE LOCATION

A single sided gas fireplace allows for a multiple locations within a space or room. This could be as a room divider, against an external wall, an island, into a corner, or as a peninsula type installation. Alternatively, the framework could be capped at the minimum cavity height for an under counter or cabinetry scenario.

## FIREPLACE CHASE

The fireplace chase is a vertical or box-like structure built to enclose the gas fireplace and/or its vent system. In cooler climates the vent should be enclosed in the chase. This can be constructed from wood or steel framing, or panels.

Fire-stops are required for safety when the vent system passes through an interior, exterior wall or a ceiling. Ceiling or wall fire-stop requirements will vary with each geographic location and you should check local regulations.

*In this scenario the overall fireplace chase width is 120" with 23 1/2" of framework to each side of the fireplace. This allows for additional space to run the vent system and overall chase symmetry.*

## FIREPLACE BASE

The fireplace can be installed directly onto the floor or onto an elevated structure. In all instances the fireplace should be installed onto a hard, continuous surface, i.e. concrete floor, plywood or compressed cement sheet. Do not install directly onto carpeting, rugs or other heat sensitive floor finishes.

## TV AND MANTEL CLEARANCE

A TV or other electrical appliances can be mounted above the fireplace, either surface mounted or recessed into the chase. The base of the TV must be a minimum of 8" above the top of the glass viewing area.

A combustible mantel can be installed above the fireplace a minimum of 8", but the mantel height is relative to the mantel depth. The greater the depth protruding from the wall, the higher the mantel clearance. Please refer to the *Escea NB Series Install Manual* for further information.

## FINISHES

Various combustible or non-combustible wall finishes and linings can be used to complete the installation, varying in depths of 3/8" to 3/4". **Combustible wall linings MUST NOT protrude past the finishing trim (5/8" depth) to the edge of the glass.**

Some installation scenarios can expose materials to higher levels of heat than expected or allowable. Designers, owners, or Installers must choose materials that are suitable for use. *Please refer to the Escea website for finish details.*

Wall linings can be bonded directly to the appliance.

Finishes should not obstruct or modify air inlets or outlets in any way.

## ALTERNATIVE CHASE SCENARIOS

Where the framework is capped at the minimum cavity opening height for an under counter or built-in cabinet, refer to the *Escea Cabinetry Design Guide* for further information.

## FIREPLACE AND CHASE DIMENSIONS

Fireplace Width	68 21/32"
Fireplace Height	39 1/4"
Fireplace Depth	15 1/8"
Viewing Area Width	53 5/16"
Viewing Area Height	25 13/32"

Cavity Opening Width min.	73"
Cavity Opening Height min.	40"
Cavity Opening Depth min.	14 1/2"
Vent Chase Width min.	8"

*This fireplace should be installed in accordance with any local regulations or codes and the Escea NB Series Install Manual. In the absence of local codes, install in accordance with ANSI Z223.1/NFPA 54, or CSA B149.1 and the Escea NB Series Install Manual.*

