

Rough Framing Dimensions

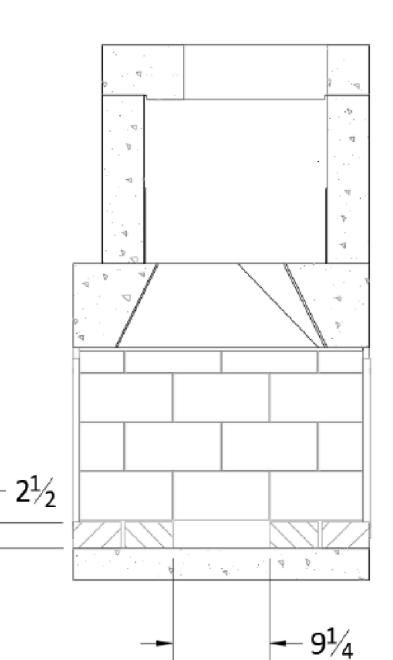
TYPICAL INSTALLATION FRAMING DIMENSIONS			
Model#	A - Width	B - Height	C - Depth
82L48ST	56"	51"	28"
82L60ST	77"	51"	28"
82L72ST	89"	51"	28"
82L96ST	112"	51"	28"
82L120ST	135"	51"	28"
NOTEC.			_

NOTES:

- "B" includes the required 3" thick base plate.
- 2) If the Maximus Linear See-Thru installation is to be elevated, this "Raised hearth" installation will require additional rough opening height at "B" that is equal to the height of the raised hearth.

IMPORTANT: Unless the insulation on walls at sides of firebox is installed behind plywood sheathing, the walls must be framed to account for the required 3" clearance to insulation. Even at this distance, the installer should be aware that usage of spray foam insulation may expand past the face of the stud wall and will require trimming prior to firebox installation to maintain the required 3" clearance. It is important that any insulation that is not installed behind sheathing shall be installed in such a manner that it cannot fall on the firebox and encroach on this clearance.

<u>Firebrick Installation - Maximus Linear See-Thru Fireplace</u>



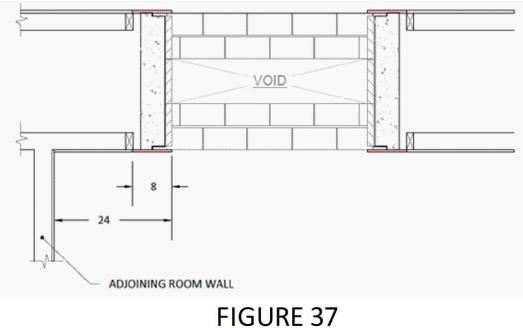
- 1) Lay two courses of "full" sized firebrick on floor so that the leading edge of the coursing is aligned with opening of the firebox. Ensure a gap of approximately ½" is kept between firebrick and sidewall to allow for expansion.
- 2) Repeat Step 1 for the opposite side of See Thru firebox.
- 3) Starting at the front edge of the unit's sidewall, apply "split" firebrick to the side wall of the unit. Ensure approximately 1/4" gap is kept between firebrick and damper beam/damper block assembly to allow for expansion.
- 4) Repeat on opposite side wall.

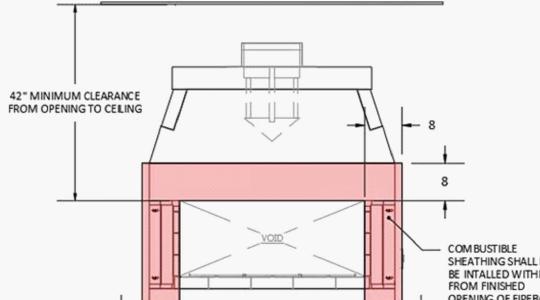
IMPORTANT:

Ensure that the required holes for the Isoflames Linear burner's 3/8" gas supply and pilot assembly gas and electrical connections are drilled prior to firebrick installation. DO NOT COVER THESE AREAS WITH

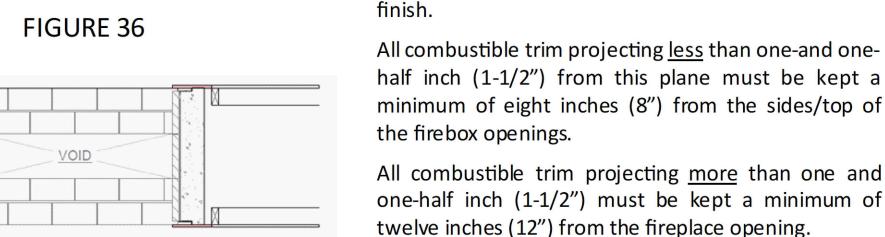
FIREBRICK!

COMBUSTIBLE MANTEL or TRIM PROJECTING MORE THAN 1-1/2" PROJECTING LESS THAN 1-1/2" COMBUSTIBLE FLOOR SYST





facing will not catch fire. In most cases the distances should also be adequate to prevent any discoloration or warping due to heat. However, each installation presents a unique and completely different set of circumstances involving many variables. These variables include paint or finish composition, previous exposure to heat, methods and quality of construction, air flow patterns, etc. Because of these variables, the manufacturer does not guarantee that heat warping, or discoloration will never occur. MANTEL AND MANTEL SHELF CLEARANCES: Maximus Linear See Thru units are designed to be



Parts of the combustible mantle assembly located along the sides of the fireplace opening, which project more than one- and one-half inches (1-1/2") from the face of the fireplace, shall have additional clearance equal to that of the projection.

distances required to ensure that a fireplace mantel or

installed so that the rough front face(s) of the Isokern

firebox and smoke dome sit flush with the face of the

rough framing members that create the room wall

Parts of the combustible mantle assembly located above and projecting more than one- and one-half inches (1-1/2") from the fireplace opening shall not be placed less than twelve inches (12") from the top of the fireplace opening.

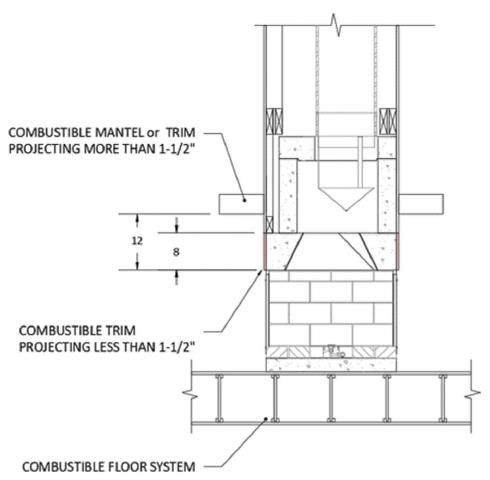
ADJOINING WALLS:

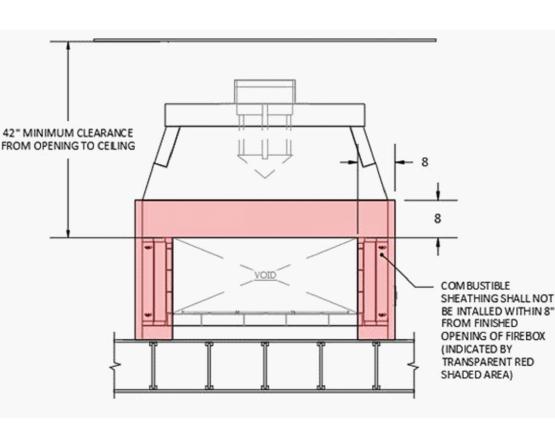
Side walls and walls to rooms adjoining the Isokern fireplace installation cannot be closer than twentyfour inches (24") to the finished fireplace opening.

CEILINGS:

The minimum clearance from the top of the fireplace opening to a ceiling is forty-two inches (42")

Clearance to Combustible Trim NOTE: "Clearance to Combustible Trim" are those





SCAN QR CODE FOR LATEST **INSTALLATION MANUALS**



Maximus Linear Series (Gas Only) Specifications

MANUFACTURER:

ISOKERN Fireplace and Chimney Systems, North America distribution by Earthcore Industries, LLC, Jacksonville, Florida (Telephone 800-642-2920)

PRODUCT DESCRIPTION:

Modular refractory masonry precast fireplace and chimney system.

- . Designed for field assembly as a fireplace and B-vent chimney system.
- 2. All interlocking parts necessary for assembly of a complete firebox, smoke dome, and Glass-Front Kit (Glass-Front Kit is installation option of the Maximus Linear series and is not required for all installations).
- 3. Isoflames Linear Burner and Valve system (per installation manual)
- 4. 12" B-vent chimney flue (per installation manual)
- 5. Mechanical draft system (per installation manual)

MATERIALS:

- A. Light weight concrete of a proprietary mixture of Icelandic volcanic aggregate and aluminum cement for precast firebox, chimney block and flue liner components.
 - 1. Compressive Strength: Firebox Block: 972 psi.
- B. Premixed (dry) EARTHCORE ADHESIVE.
 - 1. Tensile strength: 807 psi; Compressive strength: 2460 psi.
 - 2. Tested per ASTM C109, ASTM C307, and ANSI 118.4.
- C. Standard 1-1/8" high temperature refractory brick to line firebox interior walls.
- D. Standard 2-1/2" high temperature refractory brick to line firebox floor.

INSTALLATION:

- A. Reference manufacturer's installation instructions for standard configurations, weights, sizes and
- B. Suitable masonry foundation or structural wood floor system must be provided.
- C. Non combustible hearth extensions must be provided.
- D. Unit to be assembled on site per manufacturer's illustrated instructions.
 - . Premixed EARTHCORE ADHESIVE is used at all joints between components.
 - 2. Firebox to be lined with a minimum 1-1/8" rated firebrick on the walls and 2-1/2" rated firebrick on floor (trough created in firebrick floor for Isoflames Linear Burner installation).
 - 3. A 1-1/2" minimum clearance to combustible materials is required for firebox side and
 - 4. A 3" minimum clearance to insulation required.
- E. Shall be installed only with the approved Isoflames Linear Burner and Valve System as detailed in the instruction manual.
- F. Installation must use 12" B-vent pipe as detailed in the instruction manual (Anchor Plate with Down-Draft Diverter required).
- G. Only approved mechanical draft systems shall be utilized, as detailed in the instruction manual.

CERTIFICATION:

- A. PFS Corporation, PFS Report No. F19-161
- B. Meets or exceeds ANSI Z 21.50-2014, CSA 2.22-2014

CODE COMPLIANCE:

A. ICC NO. ESR 4873

NOTE: Isokern components are a natural material and slight variations in dimensions may occur. These should be no more than 1/8".

WEIGHTS AND LOAD CALCULATIONS

Total dead load amounts include (but are not necessarily limited to) the following items and their corresponding weight estimates as listed below:

- 1) Isokern Maximus Linear- See-Thru unit weights:
 - a) Maximus Linear See-Thru 48: 1,112 lbs. (no burner, flue, accessories)
 - b) Maximus Linear See-Thru 60: 1,658 lbs. (includes steel angle; but no burner, flue, accessories)
 - c) Maximus Linear See-Thru 72: 1,828 lbs. (includes steel angle; but no burner, flue, accessories)
 - d) Maximus Linear See-Thru 96: 2,247 lbs. (includes steel angle; but no burner, flue, accessories) e) Maximus Linear See-Thru - 120: 2,756 lbs. (includes steel angle; but no burner, flue, accessories)
- 2) Approximate weight of glass media: 100 lbs.
- 3) Fire brick and Adhesive: 350 lbs. 1800 lbs. depending on brick size and pattern
- 4) Facing material: per general contractor
- 5) B-Vent metal flue: per manufacturer and installation requirements

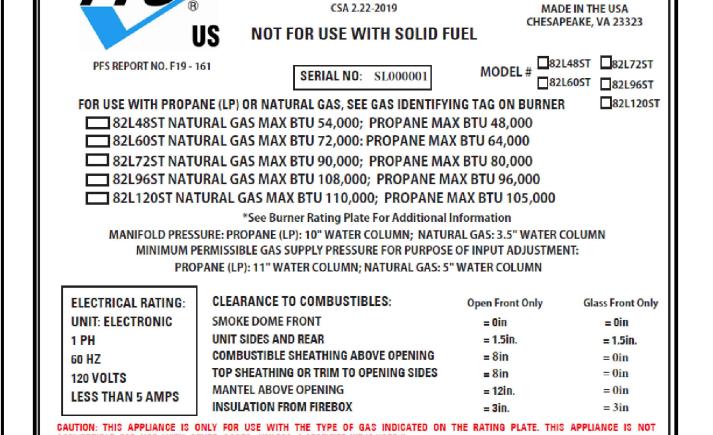
The floor area for each model is as follows:

- Maximus Linear See-Thru 48: @ 53" x 28" = 10.3 sq. ft.
- Maximus Linear See-Thru 60: @ 73-1/2" x 28" = 14.3 sq. ft.
- Maximus Linear See-Thru 72: @ 85-3/4" x 28" = 16.67 sq. ft.
- Maximus Linear See-Thru 96: @ 108-1/4" x 28" = 21.04 sq. ft.
- Maximus Linear See-Thru 120: @ 131-3/4" x 28" = 25.62 sq. ft.

Earthcore is not responsible for structural floor support details for this fireplace system. Unless otherwise noted all floor framing drawings in this manual are merely illustrations to indicate the presence of an underlying floor system. Consult your local structural engineer for proper floor system design, sizing, and specifications.



<u>"5" MAXIMUS LINEAR SEE-THRU</u> UNSPECIFIED TOLERANCES PROJECTION GENERAL INFORMATION AND SPECIFICATIONS DRAWN:
K.B.H
APPROVED 8/29/2024 DATE: N.T.S 82L60ST



See Installation and Operating Instructions for this model and ICC # ESR -4873 **EARTHCORE INDUSTRIES HEADQUARTERS**

JACKSONVILLE, FL 32256

