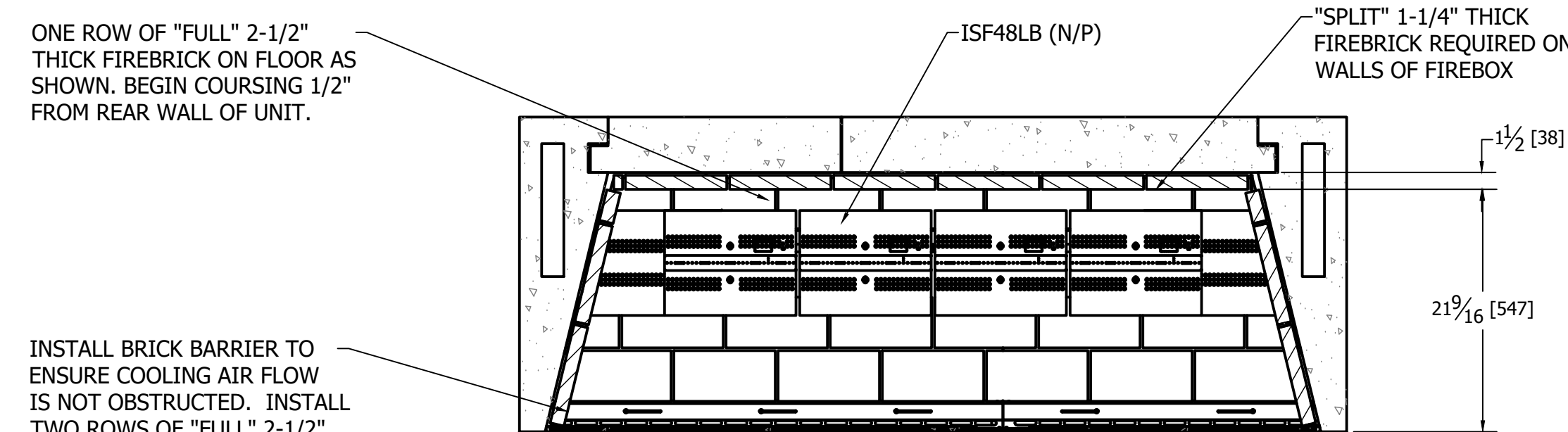


METAL-FAB 12" B-VENT PIPE (12" I.D./13" O.D.) W/ DOWN-DRAFT DIVERTER; X-VENTISO-MERIDIAN MAX LINEAR FAN SYSTEM REQUIRED.

FRAME OPENINGS TO 15" X 15" CLEAR TO MAINTAIN MIN. 1" CLEARANCE TO COMBUSTIBLES.

TOP VIEW



INSTALL BRICK BARRIER TO ENSURE COOLING AIR FLOW IS NOT OBSTRUCTED. INSTALL TWO ROWS OF "FULL" 2-1/2" THICK FIREBRICK ON FLOOR AS SHOWN.

SECTION A-A

X-VENTISO MERIDIAN 350 FAN

X-VENTISO-12" PIPE ADAPTER FOR 350 FAN

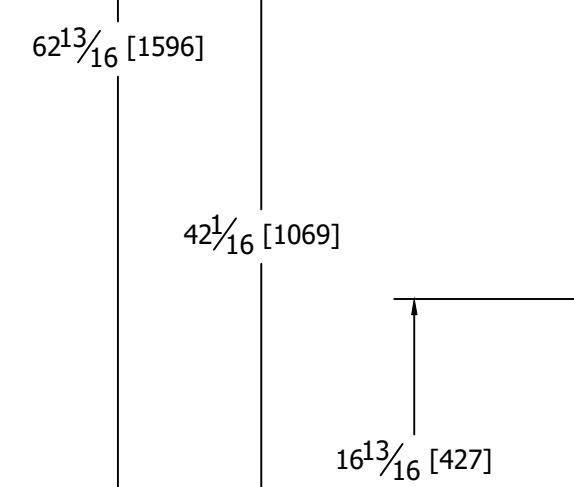
X-VENTISO-MERIDIAN DAMPER ASSEMBLY
 • MUST BE ACCESSIBLE
 • 2" CLEARANCE REQUIRED

METAL FAB 12" TYPE -B GAS VENT
 • MUST USE ANCHOR PLATE WITH DOWN-DRAFT DIVERTER
 • MAINTAIN MINIMUM 1" CLEARANCE TO COMBUSTIBLES
 • FRAME OPENINGS 15"x15" CLEAR

STACK PRESSURE PROBE
 • MOUNT 12" ABOVE FIREPLACE
 • CONNECT TO X-VENTISO HIGH PRESSURE PORT (TOP)

(2X) TG2 GLASS BRACKET ASSEMBLY

6"x 6"x 1/2" STEEL ANGLE (NOT PROVIDED BY EARTHCORE, SOURCE LOCALLY)



FRONT VIEW

CG5 NEOCERAM GLASS ASSEMBLY

3/8" GAS SUPPLY TO VALVE:
 • NG: 5" W.C. MIN / 10.5" W.C. MAX.
 • LP: 11" W.C. MIN / 13" W.C. MAX.

4 PIN MOLEX CONNECTION

3 PIN MOLEX CONNECTION

2 PIN MOLEX CONNECTION

(2) 120 VAC/ 15A RECEPTACLES

120 VAC/ 15A IN

GAS AND ELECTRICAL CONNECTIONS TO PILOT ASSEMBLY

X-VENTISO MERIDIAN CONTROL PANEL

E-VK(N/P) VALVE CONTROL BOX

ROOM PRESSURE SENSOR

DISCONNECT SWITCH

X-VENTISO 350 RAIN COLLAR

X-VENTISO MERIDIAN DAMPER ASSEMBLY

X-VENTISO-12" PIPE ADAPTER FOR 350 FAN

X-VENTISO MERIDIAN 350 FAN

METAL-FAB 12" B-VENT PIPE (12" I.D./13" O.D.) W/ DOWN-DRAFT DIVERTER; X-VENTISO-MERIDIAN MAX LINEAR FAN SYSTEM REQUIRED.

FRAME OPENINGS TO 15" X 15" CLEAR TO MAINTAIN MIN. 1" CLEARANCE TO COMBUSTIBLES.

ONE ROW OF "FULL" 2-1/2" THICK FIREBRICK ON FLOOR AS SHOWN. BEGIN COURSING 1/2" FROM REAR WALL OF UNIT.

INSTALL BRICK BARRIER TO ENSURE COOLING AIR FLOW IS NOT OBSTRUCTED. INSTALL TWO ROWS OF "FULL" 2-1/2" THICK FIREBRICK ON FLOOR AS SHOWN.

6"x 6"x 1/2" STEEL ANGLE (NOT PROVIDED BY EARTHCORE, SOURCE LOCALLY)

SIDE WALLS MUST BE NOTCHED SO ANGLE IRON SITS FLUSH WITH TOP OF WALL

6"x 6"x 1/2" STEEL ANGLE (NOT PROVIDED BY EARTHCORE, SOURCE LOCALLY)

"SPLIT" 1-1/4" THICK FIREBRICK REQUIRED ON WALLS OF FIREBOX

ISF48LB (N/P)

25 3/16 [640mm]

36 11/16 [932.5mm]

73 7/16 [1865mm]

27 15/16 [710mm]

1 1/2 [38]

21 9/16 [547]

12"

62 13/16 [1596]

42 1/16 [1069]

16 3/16 [427]

73 7/16 [1865]

4 3/8 [106.5mm]

7 9/16 [191.5mm]

7 1/8 [195.5mm]

15 [381mm]

27 15/16 [710mm]

62 13/16 [1593mm]

42 1/16 [1069mm]

7 9/16 [191.5mm]

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62 13/16 [1593mm]

42 1/16 [1069mm]

7 9/16 [191.5mm]

4 3/8 [106.5mm]

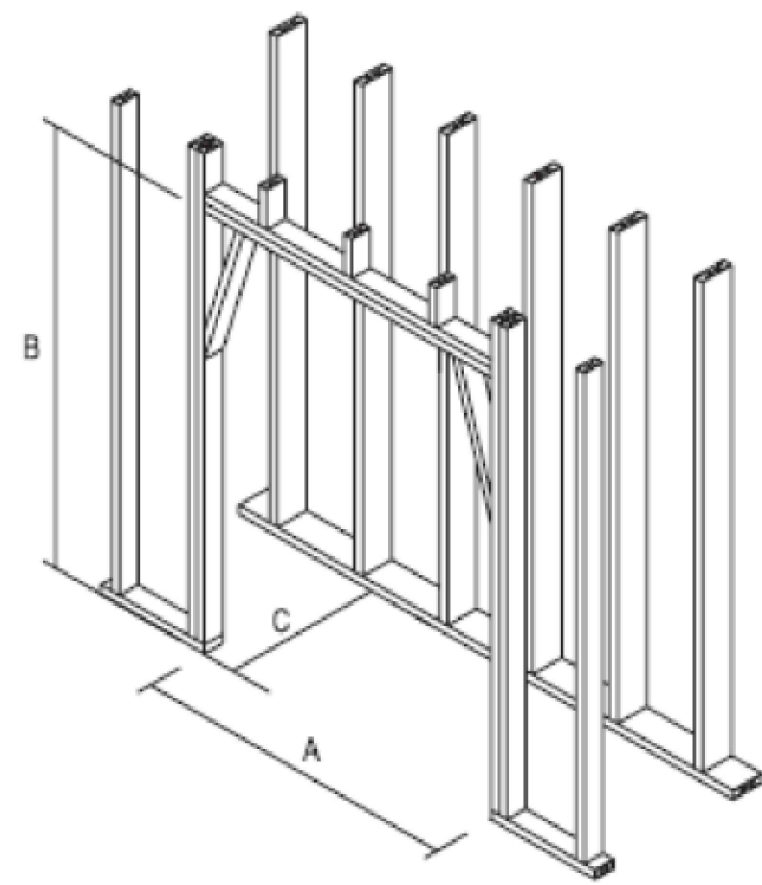
15 [381mm]

27 15/16 [710mm]

62 13/16 [1593mm]

42 1/16 [1069

Rough Framing Dimensions



TYPICAL INSTALLATION FRAMING DIMENSIONS			
Model #	A - Width	B - Height	C - Depth
82L48	56"	64-1/2"	29-1/2"
82L60	77"	64-1/2"	29-1/2"
82L72	89"	64-1/2"	29-1/2"
82L96	112"	64-1/2"	29-1/2"
82L120	135"	64-1/2"	29-1/2"

NOTES:

- 1) "B" includes the required 3" thick base plate.
- 2) If the Maximus Linear 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.
- 3) Rough framing dimension for depth "C" allows for the required 1-1/2" clearance at the back of the fireplace. Note that this 29-1/2" is typically used on interior walls that do not have insulation present.

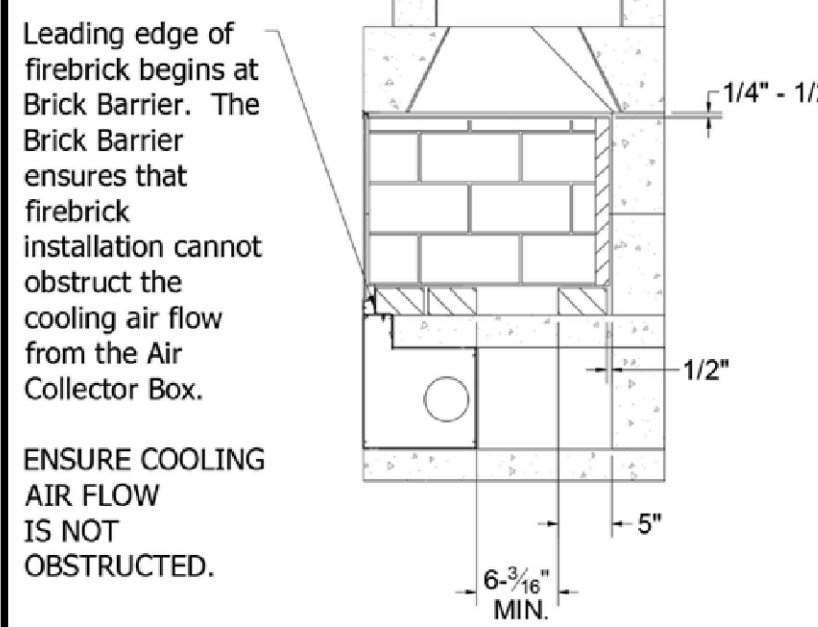
IMPORTANT: Unless the insulation on an exterior wall is installed behind plywood sheathing, a depth of 31" is often used to account for the required 3" clearance to insulation. Even with this increased distance, the installer should be aware that spray foam insulation may expand past the face of the 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.

Firebrick Installation - Maximus Linear with Glass-Front Fireplace

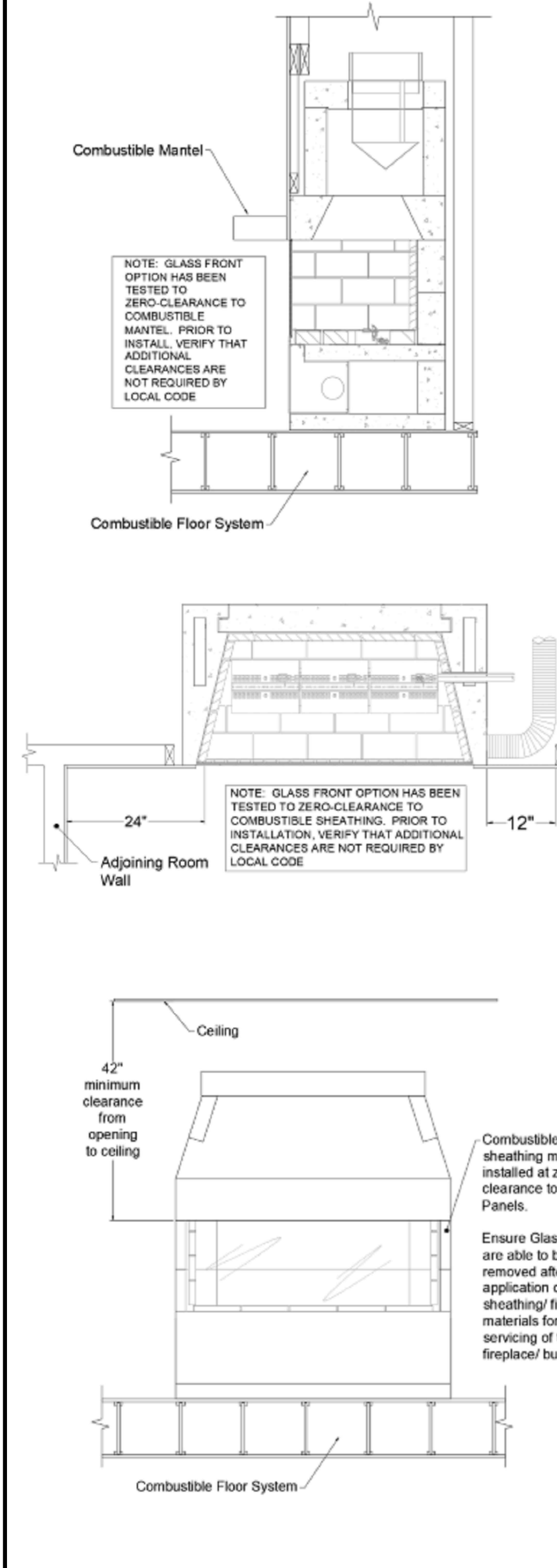
- 1) Starting approximately 1/2" from the rear of the firebox, lay one course of "full" sized firebrick on floor. Ensure a gap of approximately 1/2" is kept between firebrick and sidewall to allow for expansion.
- 2) Lay two courses of "full" sized firebrick so that the leading edge of the coursing begins at the Brick Barrier that is affixed to the Air Collector Box (s). Ensure a gap of approximately 1/2" is kept between firebrick and sidewall to allow for expansion.
- 3) Apply "split" firebrick to the rear wall of the unit. Ensure approximately 1/2" gap is kept between firebrick and sidewall, as well as an 1/4" gap is kept between firebrick and damper beam assembly to allow for expansion.
- 4) 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.
- 5) Repeat on opposite side wall.

IMPORTANT:

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



Clearance to Combustible Trim



NOTE: "Clearance to Combustible Trim" are those distances required to ensure that a fireplace mantel or 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 with Glass Fronts units are designed to be installed so that the rough front face(s) of the Isokern firebox and sits flush with the face of the rough framing members that create the room wall finish.

The Maximus Linear with Glass Front has been tested to zero-clearance to combustible mantel and sheathing. The zero-clearance rating requires the glass panels to be installed during fireplace operation. Do not operate with the glass panels removed. Prior to installation, verify that additional clearances are not required by local code.

ADJOINING WALLS:

It is recommended that adjoining room walls to the Isokern fireplace installation not be closer than twenty-four 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").

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.

1. 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 installation details.
- 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.
 1. 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 back-walls.
 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:

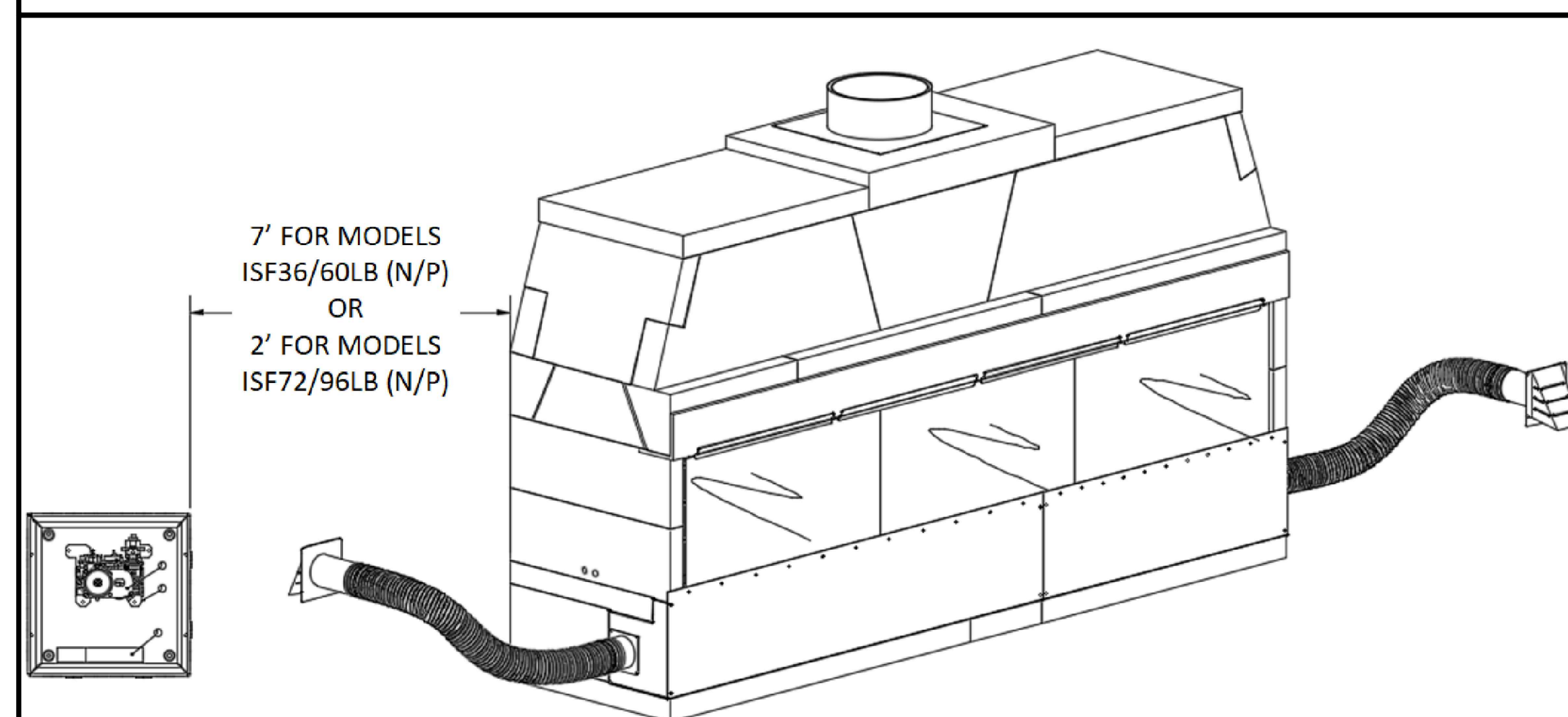
- 1) Isokern Maximus Linear w/ Glass Front unit weights:
 - a) Maximus Linear w/ Glass Front - 48: 1,652 lbs. (no burner, flue, accessories)
 - b) Maximus Linear w/ Glass Front - 60: 2,204 lbs. (includes steel angle; but no burner, flue, accessories)
 - c) Maximus Linear w/ Glass Front - 72: 2,578 lbs. (includes steel angle; but no burner, flue, accessories)
 - d) Maximus Linear w/ Glass Front - 96: 3,132 lbs. (includes steel angle; but no burner, flue, accessories)
 - e) Maximus Linear w/ Glass Front - 120: 3,844 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 w/ Glass Front - 48: @ 53" x 28" = 10.3 sq. ft.
- Maximus Linear w/ Glass Front - 60: @ 73-1/2" x 28" = 14.3 sq. ft.
- Maximus Linear w/ Glass Front- 72: @ 85-3/4" x 28" = 16.67 sq. ft.
- Maximus Linear w/ Glass Front- 96: @ 108-1/4" x 28" = 21.04 sq. ft.
- Maximus Linear w/ Glass Front - 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.

E-VK(N/P) VALVE LOCATION



SCAN QR CODE FOR LATEST INSTALLATION MANUALS



PFS ISOKERN LINEAR GAS FIREPLACE LISTED VENTED GAS FIREPLACE PER ANSI Z21.50 - 2019 CSA 2.22-2019

US NOT FOR USE WITH SOLID FUEL

PFS REPORT NO. F19 - 161 SERIAL NO. L000001 MODEL # 82L48 82L72 82L60 82L96 82L120

FOR USE WITH PROPANE (LP) OR NATURAL GAS. SEE GAS IDENTIFYING TAG ON BURNER

- 82L48 NATURAL GAS MAX BTU 54,000; PROPANE MAX BTU 48,000
- 82L60 NATURAL GAS MAX BTU 72,000; PROPANE MAX BTU 64,000
- 82L72 NATURAL GAS MAX BTU 90,000; PROPANE MAX BTU 80,000
- 82L96 NATURAL GAS MAX BTU 108,000; PROPANE MAX BTU 96,000
- 82L120 NATURAL GAS MAX BTU 110,000; PROPANE MAX BTU 105,000

*See Burner Rating Plate For Additional Information
MANIFOLD PRESSURE: PROPANE (LP): 10" WATER COLUMN; NATURAL GAS: 3.5" WATER COLUMN
MINIMUM PERMISSIBLE GAS SUPPLY PRESSURE FOR PURPOSE OF INPUT ADJUSTMENT:
PROPANE (LP): 11" WATER COLUMN; NATURAL GAS: 5" WATER COLUMN

ELECTRICAL RATING: UNIT: ELECTRONIC 1 PH 60 HZ 120 VOLTS LESS THAN 5 AMPS	CLEARANCE TO COMBUSTIBLES:	Open Front Only		Glass Front Only			
		UNIT FRONT	UNIT SIDES AND REAR	COMBUSTIBLE SHEATHING ABOVE OPENING	TOP SHEATHING OR TRIM TO OPENING SIDES	MANTEL ABOVE OPENING	INSULATION FROM FIREBOX
		= 0in	= 1.5in	= 0in	= 0in	= 0in	= 3in

CAUTION: THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE RATING PLATE. THIS APPLIANCE IS NOT CONVERTIBLE FOR USE WITH OTHER GASES, UNLESS A CERTIFIED KIT IS USED.
This appliance must be installed in accordance with local codes, if any, if none, follow the current ANSI Z223.1/NFPA 54 or CSA B149.1

EARTHCORE INDUSTRIES HEADQUARTERS
JACKSONVILLE, FL 32256

UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE IN INCHES		PROJECT: 5' MAXIMUS LINEAR W/ GFK	
UNSPECIFIED TOLERANCES:	THIRD ANGLE PROJECTION	DESCRIPTION: GENERAL INFORMATION AND SPECIFICATIONS	
ANG. A ±		MATERIAL:	
LIN. XX ±		DRAWN: K.B.H.	DATE: 8/29/2024
XXX ±		APPROVED:	DATE:
		SIZE: D	SCALE: N.T.S.
		DRAWING #: 82L60-GFK	REV: A
		DO NOT SCALE	SHEET 1 OF 2