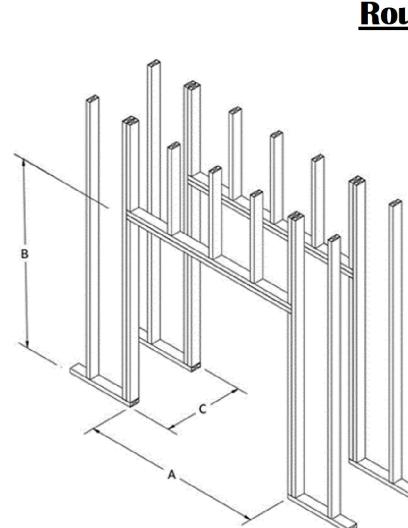


	PARTS LIST									
Ī	PART NUMBER	QTY	DESCRIPTION							
	82L120ST N/A	1 2	ISOKERN MAXIMUS LINEAR SEE-THRU-120" 6"x6"x1/2" STEEL ANGLE (MUST BE SOURCED LOCALLY, NOT PROVIDED BY EARTHCORE)							
	ISF96LB (N/P)	1	96" LINEAR BURNER ASSEMBLY AND VALVE/ CONTROLS (N: NATURAL GAS/ P: PROPANE)							
	12MDD	1	METAL- FAB 12" B-VENT DOWN DRAFT DIVERTER X-VENTISO-MERIDIAN MAX LINEAR FAN SYSTEM (CONSISTS OF THE FOLLOWING:)							
			X-VENTISO-MERIDIAN-350 FAN (XV-MERD-350)							
	XV-MERDML	1	<ul> <li>X-VENTISO-350 FAN RAIN CAP (XV-350RC)</li> <li>X-VENTISO-12" PIPE ADAPTER FOR 350 FAN (XV-350ADP12)</li> </ul>							
		L L	<ul> <li>X-VENTISO-MERIDIAN DAMPER ASSEMBLY (XV-MERD-DAMP)</li> <li>X-VENTISO-MERIDIAN ROOM PRESSURE PROBE/ COVER PLATE, STACK PRESSURE PROBE,</li> </ul>							
			TUBING (XV-MERD-PRESSKIT)							
X-VENTISO-MERIDIAN CONTROL PANEL (XV-MERD-CTLR)										
	<u>GENERAL NOTES</u>									
	1. THE ISOKERN 120" MAXIMUS LINEAR SEE-THRU FIREPLACE IS A TOP-VENTED, GAS ONLY FIREPLACE THAT IS									
	APPROVED FOR USE ONLY WITH THE ISOFLAMES LINEAR BURNER SYSTEM AS SHOWN IN THIS DRAWING (ISF96LB(N/P)). USAGE OF ANY OTHER BURNER IN THIS FIREPLACE IS PROHIBITED AND WILL ABSOLVE EARTHCORE/ ISOKERN OR ANY DIVISION THEREOF FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES ARISING OUT OF THE USE OF THIS FIREPLACE.									
	<ol> <li>EXPENSES ARISING OUT OF THE USE OF THIS FIREPLACE.</li> <li>THIS FIREPLACE'S BURNER SYSTEM (ISF96LB N/P) COMES WITH A GAS CONTROL VALVE ASSEMBLY (E-VK(N/P))THAT INCLUDES AN AUTOMATIC DRAFT AND SAFETY SYSTEM.</li> <li>THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE BURNER RATING PLATE.</li> </ol>									
	_	-	D BURNER/ VALVE ARE OF SAME TYPE PRIOR TO INSTALLATION. SES ARE TO BE VENTED THROUGH THE TOP OF THE UNIT WITH 12" METAL-FAB UL							
	LISTED B-VEN	NT PIPING V	VITH DOWN-DRAFT DIVERTER. THIS TWELVE INCH (12") DIAMETER, DOUBLE WALL							
	5. THE MAXIMUS	S LINEAR S	IOT SUPPLIED BUT IS REQUIRED FOR PROPER OPERATION. ERIES FIREPLACES SHALL BE INSTALLED WITH THE MINIMUM CLEARANCES TO							
	COMBUSTIBL •UNIT FRO		ED BELOW:							
	<ul> <li>SIDES AN</li> </ul>	D REAR: 1	.5" ATHING ABOVE OPENING TOP: 8"							
	<ul> <li>SHEATHIN</li> </ul>	NG OR TRIN	1 TO OPENING SIDES: 8"							
		ABOVE OPE TO SIDEW								
			I BEYOND FRONT: 20" I BEYOND SIDES (FINISHED): 12"							
	<ul> <li>COMBUS<sup>-</sup></li> </ul>	TIBLE FLOC	R: 0" (MUST USE ISOKERN BASE PLATE, "FULL" 2-1/2" FIREBRICK, AND ISOFLAMES							
	● <u>INSULATI</u>		IREBOX (UNSHIELDED): 3"							
			MECHANICAL VENTILATION ASSISTANCE USING THE X-VENTISO-MERIDIAN MAX R GAS-ONLY OPERATION. VENT PATHS ARE LIMITED TO A MAXIMUM OF TWO 90°							
	ELBOWS AND	MAY TERM	NINATE EITHER VERTICALLY OR HORIZONTALLY. REFER TO INSTALLATION MANUAL NGTHS AND ADDITIONAL INFORMATION REGARDING FLUE RUNS.							
	7. ENSURE TWO	O 120VAC/ <sup>-</sup>	15A OUTLETS ARE PROVIDED FOR GAS VALVE AND X-VENTISO-MERIDIAN CONTROL							
	PANEL IN ACC LOCATION.	CORDANCE	WITH INSTALLATION MANUAL. CONTROLS SHALL BE LOCATED IN ACCESSIBLE							
K	8. ALL ACCESSO MANUFACTUR	-	IPMENT INSTALLED WITH THIS FIREPLACE TO BE INSTALLED ACCORDING TO							
	9. INSTALL AND	SUPPORT	B-VENT PIPE TO ALL MANUFACTURER SPECIFICATIONS. ENSURE MIN.1" CLEARANCE							
			EPT AT ALL TIMES. TISO-MERIDIAN DAMPER ASSEMBLY REQUIRES 2" CLEARANCE TO COMBUSTIBLES							
			ALLED. IF HEAT SHIELD IS NOT INSTALLED, THIS CLEARANCE INCREASES TO 18". SIGN PURPOSES ONLY AND ARE THE SOLE PROPERTY OF EARTHCORE INDUSTRIES.							
	ANY REPROD	OUCTION OF	R UNAUTHORIZED USE IS STRICTLY PROHIBITED.							
	CONSEQUEN	-	OR ANY DIVISION THEREOF SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR GES OR EXPENSES ARISING OUT OF THE USE OF THE FIREPLACES OR CHIMNEY							
	SYSTEMS. 13. ALWAYS CHE	CK LOCAL	BUILDING CODES GOVERNING FIREPLACES AND FIREPLACE INSTALLATIONS.							
<u>२</u>			ISOMETRIC VIEW (N.T.S.)							
2	120" MAXIMUS SE	LINEAR - E-THRU	METAL-FAB 12" B-VENT PIPE (12" I.D./13" O.D.) W/ DOWN-DRAFT DIVERTER; X-VENTISO-MERIDIAN							
			MAX LINEAR FAN SYSTEM REQUIRED.							
		$\leq$	FRAME OPENINGS TO 15" X 15" CLEAR TO MAINTAIN MIN. 1" CLEARANCE TO COMBUSTIBLES.							
		μ	6"x 6"x 1/2" STEEL ANGLE ON							
			BOTH SIDES (NOT PROVIDED BY							
	1-1/4" THICK – FIREBRICK ON		EARTHCORE,							
	SIDE WALLS		SOURCE LOCALLY)							
,										
	2-1/2" THICH FIREBRICK C									
	FIREBRICK ON FLOOR									
			ISF96LB (N/P)							
			UNLESS OTHERWISE STATED, ALL PROJECT: 10' MAXIMUS LINEAR SEE-THRU							
	earthe									
	INDUSTRIE	S, L.L.C.	ANG. A ± LIN. X ± E.C. PUMICE MIXTURE DRAWN: DATE: SIZE: SCALE: DRAWING #: REV:							
			xx     ±     K.B.H     8/29/2024     D     1"=1'-0"     82L120ST     D							
			.XXX     ±       DO NOT SCALE     SHEET # 1       OF     2							



# **Rough Framing Dimensions**

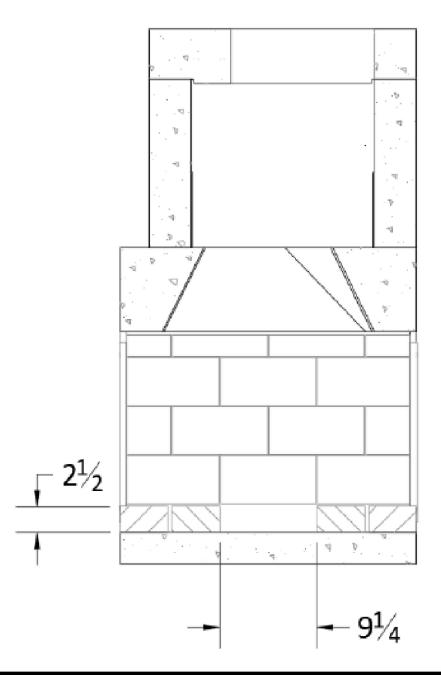
<b>TYPICAL INSTALLATION FRAMING DIMENSIONS</b>							
Model #	<b>A</b> - Width	<b>B</b> - Height	<b>C</b> - Depth				
82L48ST	56"	51"	28"				
82L60ST	77"	51"	28"				
82L72ST	89"	51"	28"				
82L96ST	112"	51"	28"				
82L120ST	135″	51"	28"				
NOTEC							

## NOTES:

- 1) **"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.

# Firebrick Installation - Maximus Linear See-Thru Fireplace



- 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  $\frac{1}{2}$ " is kept between firebrick and sidewall to allow for expansion.
- 2) Repeat Step 1 for the opposite side of See Thru firebox.
- 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!

PFS	ISOKERN SEE THRU LINEAR GAS FIRI LISTED VENTED GAS FIREPLACE PER ANSI Z21.: CSA 2.22-2019 NOT FOR USE WITH SOLID F	50 - 2019 MADE IN CHESAPEAK	THE USA					
PFS REPORT NO. F19 - 161       MODEL #       B2L48ST       B2L72ST         FOR USE WITH PROPANE (LP) OR NATURAL GAS, SEE GAS IDENTIFYING TAG ON BURNER       B2L120ST         B2L48ST NATURAL GAS MAX BTU 54,000; PROPANE MAX BTU 48,000       B2L60ST NATURAL GAS MAX BTU 72,000; PROPANE MAX BTU 64,000         B2L272ST NATURAL GAS MAX BTU 90,000; PROPANE MAX BTU 80,000       B2L96ST NATURAL GAS MAX BTU 108,000; PROPANE MAX BTU 96,000         B2L120ST NATURAL GAS MAX BTU 110,000; PROPANE MAX BTU 96,000       S2L120ST NATURAL GAS MAX BTU 110,000; PROPANE MAX BTU 105,000         MODEL #       See Burner Rating Plate For Additional Information         MANIFOLD PRESSURE: PROPANE (LP): 10" WATER COLUMN; NATURAL GAS: 3.5" WATER COLUMN         MANIFOLD PRESSURE: PROPANE (LP): 10" WATER COLUMN; NATURAL GAS: 3.5" WATER COLUMN         MANIFOLD PRESSURE: PROPANE (LP): 10" WATER COLUMN; NATURAL GAS: 5." WATER COLUMN								
ONVERTIBLE FOR USE WITH O	CLEARANCE TO COMBUSTIBLES: SMOKE DOME FRONT UNIT SIDES AND REAR COMBUSTIBLE SHEATHING ABOVE OPENING TOP SHEATHING OR TRIM TO OPENING SIDES MANTEL ABOVE OPENING INSULATION FROM FIREBOX	= Oin = 1.5in. = 8in = 8in = 12in. = 3in. THE RATING PLATE. THIS APP						
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 See Installation and Operating Instructions for this model and ICC # ESR -4873 EARTHCORE INDUSTRIES HEADQUARTERS JACKSONVILLE, FL 32256								

	E
7' FOR MODELS ISF36/60 LB(N/P) OR 2' FOR ISF72/ 96 LB(N/P)	F
-	

## **Clearance to Combustible Trim**

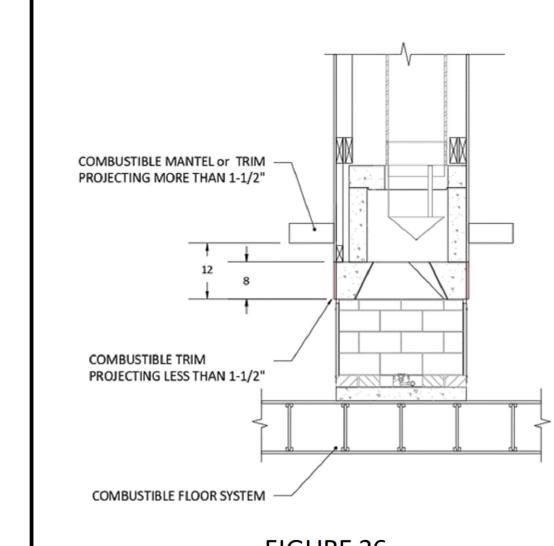
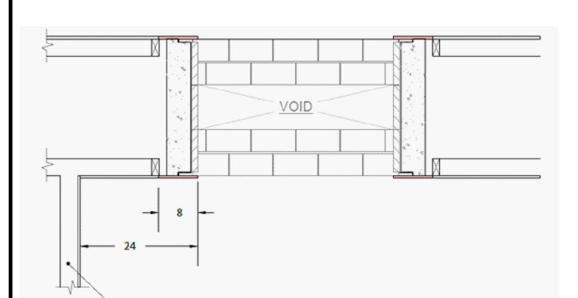
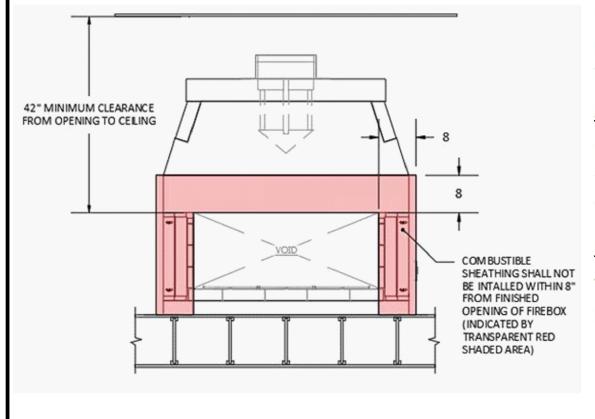


FIGURE 36





ADJOINING ROOM WALL



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 See Thru units are designed to be 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 finish

All combustible trim projecting less than one-and onehalf inch (1-1/2'') from this plane must be kept a minimum of eight inches (8") from the sides/top of the firebox openings.

All combustible trim projecting more than one and one-half inch (1-1/2'') must be kept a minimum of twelve inches (12") from the fireplace opening.

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.

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.

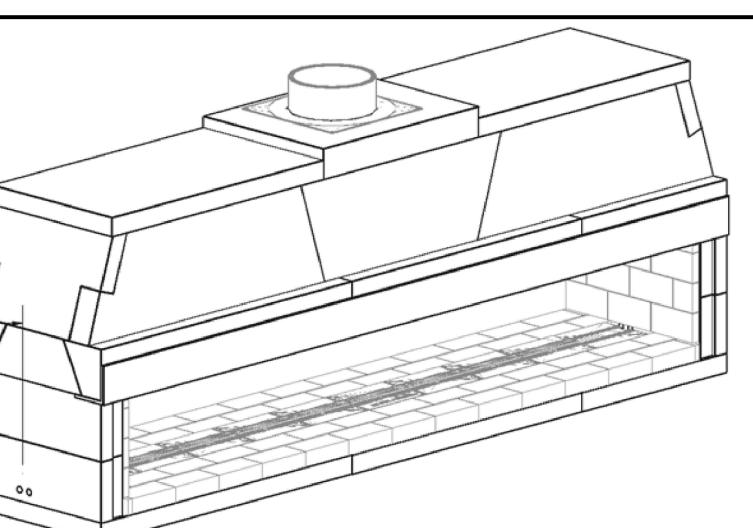
### **ADJOINING WALLS:**

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")

# -VK(N/P) VALVE LOCATION



### 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 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.
  - . 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- 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.

	UNLESS OTHER			SE STATED, ALL	PROJECT: 10' MA	AXIMUS	5 L	INEAR	SEE-THR	U
GERINCORE			NCES	THIRD ANGLE PROJECTION		NFORMATION	AND	SPECIFICATIO	NS	
INDUSTRIES, L.L.C.	ANG.	А	±		MATERIAL:					
-	LIN.	.X	±		DRAWN:	DATE:	SIZE:	SCALE:	DRAWING #:	REV:
		.XX	±		K.B.H APPROVED:	8/29/2024 DATE:		N.T.S	82L120ST	D
		.xxx						DO NOT SCALE	SHEET # 2 OF	2