

•NG: 5" W.C. MIN./ 10.5" W.C. MAX. •LP: 11" W.C. MIN./ 13" W.C. MAX.

FRONT

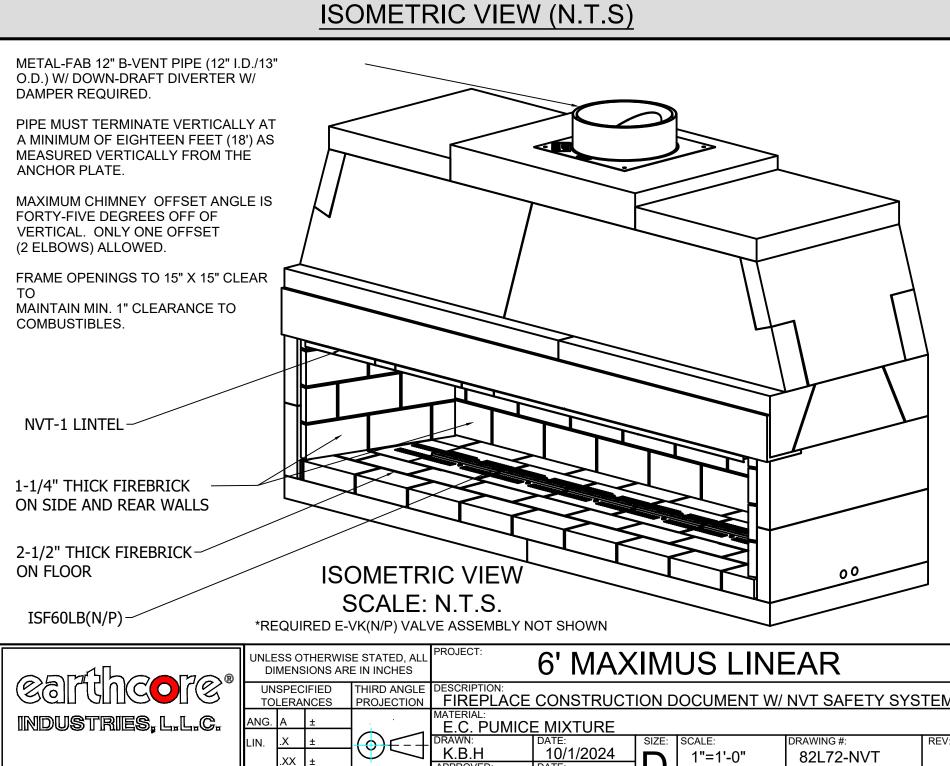
ISOKERN COMPONENT AND ACCESSORIES LIST				
PART#	QTY.	DESCRIPTION		
82L72	1	72" MAXIMUS LINEAR FIREPLACE		
	1	6"x6"x1/2" STEEL ANGLE, 85-7/8" LONG (NOT SUPPLIED BY EARTHCORE, SOURCE LOCALLY)		
NVT-1	1	NVT-1 HIGH TEMP LINTEL, 48" – 72" MODELS		
NVT-2	1	12" B-VENT ANCHOR PLATE W/ DRAFT DIVERTER AND DAMPER		
ISF60LB	1	ISOFLAMES 60" LINEAR BURNER ASSEMBLY (N: NATURAL GAS/ P: PROPANE)		

GENERAL NOTES

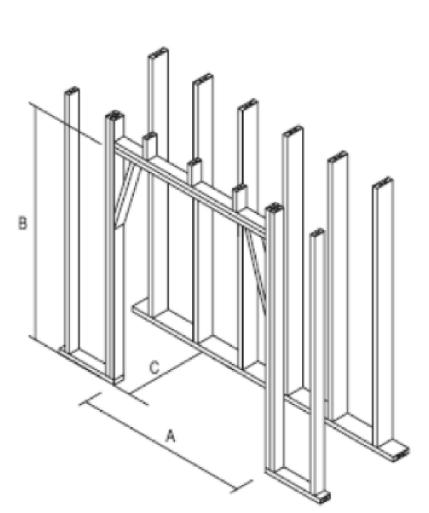
- 1. THE ISOKERN 72" MAXIMUS LINEAR FIREPLACE IS A TOP-VENTED, GAS ONLY FIREPLACE THAT IS APPROVED FOR USE ONLY WITH THE ISOFLAMES LINEAR BURNER SYSTEM AS SHOWN IN THIS DRAWING (ISF60LB(N/P)). USAGE OF ANY OTHER BURNER IN THIS FIREPLACE IS PROHIBITED AND WILL ABSOLVE EARTHCORE/ ISOKERN OR ANY DIVISION THEREOF FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES ARISING OUT OF THE USE OF THIS FIREPLACE.
- 2. THIS FIREPLACE'S BURNER SYSTEM (ISF60LB N/P) COMES WITH A GAS CONTROL VALVE ASSEMBLY (E-VK(N/P)) THAT INCLUDES AN AUTOMATIC DRAFT AND SAFETY SYSTEM. BURNER OPERATION IS INTERLOCKED INTO THE NVT-1 AND
- 3. THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON THE BURNER RATING PLATE. VERIFY GAS SUPPLY AND BURNER/ VALVE ARE OF SAME TYPE PRIOR TO INSTALLATION.
- 4. ALL NATURALLY VENTING APPLICATIONS OF THE MAXIMUS LINEAR SERIES SHALL BEGIN WITH THE NVT-2 (12" B-VENT
- 5. THE EXHAUST FLUE GASES ARE TO BE VENTED THROUGH THE TOP OF THE UNIT WITH LISTED 12" B-VENT PIPING. A MINIMUM OF EIGHTEEN FEET (18') AS MEASURED VERTICALLY FROM THE ANCHOR PLATE TO THE CHIMNEY CAP IS REQUIRED. MAXIMUM CHIMNEY OFFSET ANGLE IS FORTY-FIVE DEGREES OFF OF VERTICAL. ONLY ONE OFFSET (2 ELBOWS) ALLOWED. CHIMNEY MUST TERMINATE VERTICALLY. THE TWELVE-INCH (12") DIAMETER, DOUBLE WALL B-VENT PIPE AND LISTED VENT CAP ARE NOT SUPPLIED BUT ARE REQUIRED FOR PROPER OPERATION OF ALL MAXIMUS LINEAR.
- NOTE: IF THE ABOVE CONDITIONS ARE NOT PRESENT, THE XVENTIO-MERIDIAN MECHANICAL DRAFT SYSTEM IS
- 6. INSTALL AND SUPPORT B-VENT PIPE TO ALL MANUFACTURER SPECIFICATIONS. ENSURE MIN.1" CLEARANCE TO
- 7. THE MAXIMUS LINEAR SERIES FIREPLACES SHALL BE INSTALLED WITH THE MINIMUM CLEARANCES TO COMBUSTIBLES AS

RIGHT

- B. ENSURE A 120VAC/ 15A OUTLET IS PROVIDED FOR E-VKN/ E-VKP GAS VALVE FOR ISOFLAMES LINEAR BURNER.
- 9. ALL ACCESSORIES/ EQUIPMENT INSTALLED WITH THIS FIREPLACE TO BE INSTALLED ACCORDING TO MANUFACTURER'S
- 10. DRAWINGS ARE FOR DESIGN PURPOSES ONLY AND ARE THE SOLE PROPERTY OF EARTHCORE INDUSTRIES. ANY
- 11. EARTHCORE/ ISOKERN OR ANY DIVISION THEREOF SHALL NOT BE HELD LIABLE FOR ANY INCIDENTAL OR
- CONSEQUENTIAL DAMAGES OR EXPENSES ARISING OUT OF THE USE OF THE FIREPLACES OR CHIMNEY SYSTEMS.



Rough Framing Dimensions



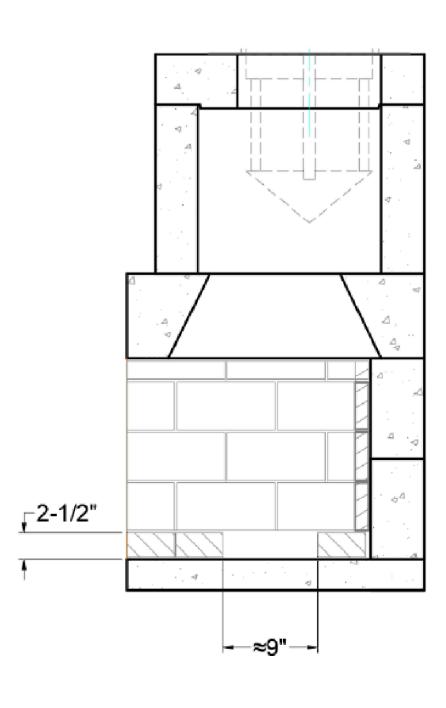
TYPICAL INSTALLATION FRAMING DIMENSIONS						
Model #	A - Width	B - Height	C - Depth			
82L48	56"	51"	29-1/2"			
82L60	77"	51"	29-1/2"			
82L72	89"	51"	29-1/2"			
82L96	112"	51"	29-1/2"			
82L120	135"	51"	29-1/2"			

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
- 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 Fireplace



ISOKERN LINEAR GAS FIREPLACE

LISTED VENTED GAS FIREPLACE PER ANSI Z21.50 - 2015

NOT FOR USE WITH SOLID FUEL

SERIAL NO: 1,000001

*See Burner Rating Plate For Additional Information

PROPANE (LP): 11" WATER COLUMN: NATURAL GAS: 5" WATER COLUMN

This appliance must be installed in accordance with local codes, if any, if none, follow the current ANSI Z223.1/NFPA 54 or

EARTHCORE INDUSTRIES HEADQUARTERS

JACKSONVILLE, FL 32256

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

CLEARANCE TO COMBUSTIBLES:

COMBUSTIBLE SHEATHING ABOVE OPENING

TOP SHEATHING OR TRIM TO OPENING SIDES

UNIT FRONT

CAUTION: THIS APPLIANCE IS ONLY FOR USE WITH THE TYPE OF GAS INDICATED ON

UNIT SIDES AND REAR

ELECTRICAL RATING:

UNIT: ELECTRONIC

LESS THAN 5 AMPS

60 HZ

120 VOLTS

82L96 NATURAL GAS MAX BTU 108,000; PROPANE MAX BTU 96,000 82L120 NATURAL GAS MAX BTU 110,000; PROPANE MAX BTU 105,000

- 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 is aligned with opening of the firebox. 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:

ISOKERN'

MADE IN THE USA CHESAPEAKE, VA 23323

82L48 82L72

Glass Front On

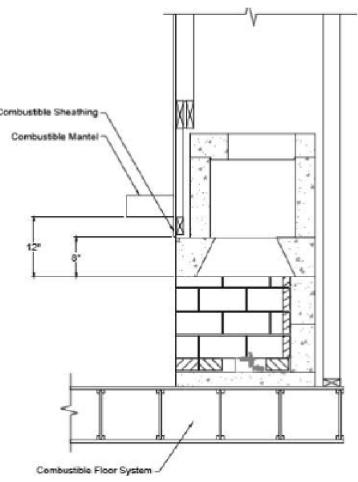
= 1.5in.

= 0in

= 0in

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



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

NOTE: "Clearance to Combustible Trim" are those

facing will not catch fire. In most cases the distances

distances required to ensure that a fireplace mantel or

should also be adequate to prevent any discoloration or

MANTEL AND MANTEL SHELF CLEARANCES:

warping, or discoloration will never occur.

Maximus Linear units are designed to be installed so that the rough front face(s) of the Isokern firebox and smoke dome sit flush with the f ace of the rough framing members that create the room wall finish.

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

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

Parts of the combustible mantel 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 mantel 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:

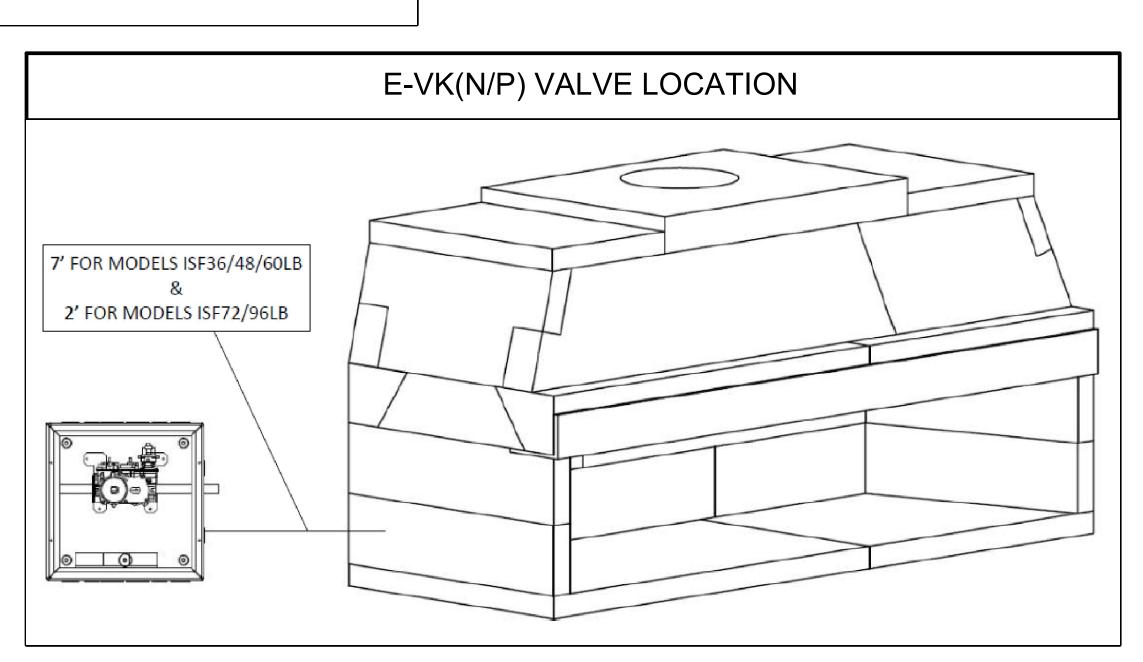
Side walls and walls to rooms adjoining the Isokern 8° from finished opening of fireplace installation cannot be closer than twentyfour inches (24") to the finished fireplace opening.

CEILINGS:

shall not be installed within

firebox (indicated by

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



Combustible Sheathing -

SCAN QR CODE FOR LATEST **INSTALLATION MANUALS**



Maximus Linear Series (Gas Only-Natural Vent) 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 and smoke dome (Glass-Front Kit installation option is only available on Maximus Linear series using mechanical draft).
- 3. Isoflames Linear Burner and Valve system (per installation manual)
- 4. NVT-1 and NVT-2 safety system
- 5. 12" B-vent chimney flue (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.
 - 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. The Maximus Linear shall be installed only with the approved Isoflames Linear Burner and Valve System as detailed in the instruction manual. F. Installation must use the NVT-1 and NVT-2 safety system interlocked with Isoflames Linear Burner.
- G. Installation must use 12" B-vent pipe as detailed in the instruction manual. (NVT-2 Anchor Plate with
- Draft-Diverter and Damper and NVT-1 Lintel required). H. Minimum of eighteen feet (18') of pipe as measured vertically from the anchor plate to the chimney cap is
- Maximum chimney offset angle is forty-five degrees off of vertical.
- J. Only one offset (2 elbows) allowed.
- K. Chimney must terminate vertically.
 - NOTE: if the above conditions (F-K) are not present, the xventiso-meridian mechanical draft system is required

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- Open Front unit weights:
 - a) Maximus Linear Open Front 48: 1,275 lbs. (no burner, flue, or accessories)
 - b) Maximus Linear Open Front 60: 1,720 lbs. (includes steel angle; but no burner, flue, or accessories)
- c) Maximus Linear Open Front 72: 1,990 lbs. (includes steel angle; but no burner, flue, or
- d) Maximus Linear Open Front 96: 2,450 lbs. (includes steel angle; but no burner, flue, or
- e) Maximus Linear Open Front 120: 2,997 lbs. (includes steel angle; but no burner, flue, or
- 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 Open Front 48: @ 53" x 28" = 10.3 sq. ft.
- Maximus Linear Open Front 60: @ 73-1/2" x 28" = 14.3 sq. ft.
- Maximus Linear Open Front 72: @ 85-3/4" x 28" = 16.67 sq. ft.
- Maximus Linear Open Front 96: @ 108-1/4" x 28" = 21.04 sq. ft. • Maximus Linear Open 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.

