

ICC-ES Evaluation Report

ESR-2401

Reissued January 2024

This report also contains:

- LABC Supplement

Subject to renewal January 2026

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DIVISION: 10 00 00— SPECIALTIES

Section: 10 31 00—
Manufactured Fireplaces

REPORT HOLDER:

MASONRY FIREPLACE INDUSTRIES, LLC

ADDITIONAL LISTEES:

BURNTECH FIREPLACE SOLUTIONS

CAPO FIRESIDE

EVALUATION SUBJECT:

MASON-LITE MODULAR CONCRETE FIREPLACES



1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (*IBC*)
- 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (*IRC*)
- 2018, 2015, 2012, 2009 and 2006 International Mechanical Code® (IMC)
- 2018, 2015, 2012, 2009 and 2006 International Fuel Gas Code® (IFGC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see <u>ESR-2401 LABC and LARC Supplement</u>

Properties evaluated:

- Fire resistance
- Seismic resistance

2.0 USES

The Mason-Lite™ modular concrete fireplaces, Models MFP-33, MFP-39, MFP-44, MFP-49 and MFP-63 [Burntech Fireplace Solutions Models TFS33, TFS39, TFS44, TFS49 and TFS63 and Capo Fireside Artisan Series Models AS33, AS39, AS44, AS49 and AS63], comply with UL 127 and are fireplaces constructed in the field using prefabricated concrete firebox components with factory-built chimneys. The fireplaces are for use only with solid wood logs, LPG or natural gas log lighters complying with CSA 8, and decorative gas appliances complying with ANSI Z 21.60.

Mason-Lite modular concrete vented gas-fired fireplace models MGFP-39, MGFP-44, and MGFP-49 [Burntech Fireplace Solutions Models_GBVS39, GBVS44 and GBVS49 and Capo Fireside Artisan Series Models ASG39, ASG44 and ASG49] comply with ANSI Z21.50, and are constructed in the field and vented with a listed Type B gas vent.

Mason-Lite modular concrete gas-fired vent free fireplace models MFP-39VF, MFP-44VF, and MFP-49VF [Burntech Fireplace Solutions Models_VFS39, VFS44 and VFS49 and Capo Fireside Artisan Series Models AS-39VF, AS-44VF and AS-49VF] comply with ANSI Z21.91 and are constructed in the field.

3.0 DESCRIPTION

3.1 Fireplace Units:

The Mason-Lite™ Masonry Fireplace is a modular refractory masonry unit designed for field assembly. The firebox is constructed using precast, interlocking refractory blocks secured to each other using Mason-Lite mortar. The system is supplied with all parts necessary for the assembly of a complete masonry firebox unit. Figures 1 and 2 illustrate the Mason-Lite system components. For combustible floor installations, the Mason-Lite system includes a noncombustible raised platform designed to be placed beneath the field-assembled firebox unit. High-temperature refractory brick, 1¹/8 inches (28.6 mm) thick, is required to line the interior of the firebox. See Table 1 for Masonry Fireplace Industries (MFI), Capo Fireside and Burntech Fireplace Solutions (Burntech) models, fireplace weights and floor areas.

The Mason-Lite™ Models MFP-33, MFP-39, MFP-44, MFP-49, and MFP-63 are also sold as Burntech Fireplace Solutions models TFS-33, TFS-39, TFS-44, TFS-49, and TFS-63, respectively. The products are also sold as Capo Fireside models AS33, AS39, AS44, AS49 and AS63.

3.2 Factory-built Chimneys:

The wood-burning fireplaces may only be used in conjunction with listed factory-built specific chimney systems. The MFP-39, MFP-44 (AS33, AS39, AS44, TFS33, TFS39, TFS44) wood burning fireplaces require the use of a Desa/FMI DM12 12-inch-diameter (305 mm) chimney or 12- or 14-inch-diameter (305 or 356 mm) flue system listed by an approved agency as complying with UL103. The MFP-49 (AS49, TFS-49) fireplace requires a 14-inch-diameter (356 mm) flue system listed by an approved agency as complying with UL103. The MFP-63 (AS63, TFS63) fireplace requires the use of a Desa/FMI DM16 16-inch-diameter (406 mm) flue system listed by an approved agency as complying with UL103 and labeled as "Residential Type and Building Heating Appliance Chimney". As an alternative, the MFP-63 (AS63, TFS63) fireplace may use a dual Desa/FMI DM12 12-inch-diameter (305 mm) flue system. The chimneys are limited to a maximum height of 40 feet (12 192 mm) and a minimum height of 14 feet (4267 mm); except that, where offsets are used, the minimum height is 17 feet (5181 mm). No more than two offsets are permitted.

3.3 Fireplaces Equipped with a Decorative Gas Appliance:

The fireplace systems described in Section 3.1 may be installed with a decorative gas appliance listed in accordance with ANSI Z21.60, provided the fireplace is terminated with a 10-inch-diameter (254 mm) listed Type B gas vent.

3.4 Vented Gas-fired Fireplaces:

Models MGFP-39, MGFP-44, and MGFP-49 (GBVS39, GBVS44, GBVS49, ASG39, ASG44 and ASG49), complying with ANSI Z21.50, require the use of a listed 10-inch-diameter (254 mm) Type B gas vent and must comply with Chapter 8 of the IMC and Chapter 5 of the IFGC. The models must be as specified in the report holder's Mason-Lite published installation instructions.

3.5 Unvented (Vent Free) Gas-fired Fireplaces:

Unvented (vent free) gas-fired fireplace models MFP-39VF, MFP-44VF and MFP-49VF (VFS39, VFS44, VFS49, AS-39VF, AS-44VF and AS-49VF) complying with ANSI Z21.91, require the use of an unvented decorative room heater complying with ANSI Z21.11.2. See <u>Table 1A</u> for vent free fireplace weights and floor areas.

3.6 Grout and Mortar:

The grout and mortar used to construct the fireplace is provided by Masonry Fireplace Industries, LLC.

4.0 DESIGN AND INSTALLATION

4.1 General:

The fireplace units must be installed in accordance with this report, the fireplace report holder's published installation instructions, and the applicable code. A copy of the report holder's installation instructions must be available at the jobsite at all times during installation. As applicable, the factory-built chimney or Type B gas vent installation instructions must also be available at the jobsite at all times during installation.

4.2 Design:

When installed in accordance with Section 4.3 of this report and the manufacturer's instructions, the fireplace units may be installed in Seismic Design Categories A through F. In Seismic Design Categories C, D, E and F, the seismic design parameters are limited to the values noted in <u>Table 2</u>. The seismic design must be in accordance with Sections 13.3, 13.4, 13.5 and 13.6 of ASCE 7.

When installed in accordance with <u>Figure 10</u> or <u>Figure 11</u> of this report, the Mason-Lite modular concrete fireplaces may be anchored to a concrete slab-on-grade, located in Seismic Design Categories A through F, as determined from the seismic design parameters shown in <u>Table 2</u> of this report.

When installation is on wood floor construction, the licensed design professional must determine the requirements for support and anchorage for the combined gravity and seismic loading. The applicability of the seismic design parameters in Table 2 must be verified with due consideration of the flexibility of anchorage and supports. In addition, the calculated long-term deflection of the wood members supporting the fireplace must not exceed the values shown in IBC Table 1604.3 for floor members. Under the IRC, an engineered design must be provided in accordance with IRC Section R301.1.3.

4.3 Installation:

The Mason-Lite™ masonry fireplace system may be installed directly on concrete slabs and footings or on combustible floors, subject to the structural design limitations contained within this report. For concrete foundations, the firebox base must be installed directly to the foundation. For combustible supporting systems, installation of a 1-inch-thick (25.4 mm) ceramic fiber-board, 6-inch-high (152 mm) or 8.5-inch-high (216 mm) (for MFP-63, AS63, TFS63) metal support base and ½-inch-thick (12.7 mm) cement board is required before placement of the firebox hearth components. The precast components are assembled following the Mason-Lite published instructions and using the mortar described in Section 3.5. Minimum No. 4 reinforcing bar or ½-inch-diameter (12.7 mm) all-thread bar must be installed, and the cells of the precast components are grouted with Mason-Lite grout. Anchorage of the fireplace unit to the foundation or supporting floor must be as described in Section 4.2.

After completion of the construction of the lower firebox components, the precast lintel and firebox dome components are installed. The chimney anchor plate must then be attached to the firebox dome as shown in Figure 4. With the exception of the unvented (vent free) gas-fired fireplaces, once the installation of the chimney anchor plate is completed, the listed prefabricated chimney flue pipe or listed Type B gas vent must be installed. See Figures 5, 6 and 7. The clearances to combustibles must comply with Table 4 or Table 5. Installation of the chimney or gas vent must be in accordance with the chimney or gas vent listing, the chimney or gas vent report holder's instructions and the applicable code.

Firebrick lining having a minimum thickness of 1¹/₈ inches (29 mm) and complying with ASTM C1261 must be installed along with any required hearth extensions as shown in Figure 8.

Combustion air must be provided in accordance with IBC Section 2111.14, IRC Section R1006.1, IRC Section G2407 or IFGC Section 304, as applicable, and the report holder's published installation instructions.

The wood-burning fireplace models specified in <u>Table 7</u> may be installed with glass doors. Wood-burning fireplace Models MFP-63, TFS-63 and AS63 are not recognized for use with doors. The vented gas-fired fireplaces described in Section 3.4 may be installed with a Crown-Breckinridge glass door or a McKenzie-Pendelton glass door. The unvented (vent free) gas-fired fireplaces described in Section 3.5 are not recognized for use with doors.

5.0 CONDITIONS OF USE:

The Mason-Lite modular concrete fireplaces described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The fireplaces must be installed in accordance with this report and the report holder's published installation instructions. In the event of a conflict between this report and the report holder's instructions, the more restrictive governs.
- 5.2 The fireplace units must be installed by contractors approved by Masonry Fireplace Industries, LLC.
- 5.3 When installation is over framed floor construction, the supporting structure and the anchorage of the fireplace unit to the supporting structure must be designed for all applicable loads, including gravity, wind and earthquake loading, and must include applicable load combinations in accordance with IBC Section 1605. The weights of the various components and the footprint of the installed unit are included in Table 1.

The structural design and calculations must be prepared by a registered design professional and must be provided to the code official for approval.

- **5.4** When installation is over a slab-on-grade concrete foundation, the installation must be as shown in Figure 10 or Figure 11 of this report.
- **5.5** For fireplaces recognized for use with glass doors, see Section 4.3 and Table 7.
- 5.6 Compliance with the fireplace air leakage provisions found in 2018 and 2015 International Energy Conservation Code® (IECC) Section R402.4.2, 2012 IECC Section R402.4.2 and Table R402.4.1.1, 2018 and 2015 IRC Section N1102.4.2, 2012 IRC Section N1102.4.2 and Table N1102.4.1.1, 2009 IECC Section 402.4.3 and 2009 IRC Section N1102.4.3 are outside the scope of this report.
- 5.7 Under the 2018 IRC, 2018 IMC and 2018 IFGC, where factory-built chimneys pass through insulated assemblies, an insulation shield complying with 2018 IRC Section R1005.8, 2018 IMC Section 805.7 or 2018 IFGC Section 503.5.11, as applicable, must be installed.
- **5.8** The fireplace units are manufactured in Riverside, California, under a quality-control program with inspections by ICC Evaluation Service, LLC.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Field-constructed Fireplace Systems Using Prefabricated Blocks (AC375), dated February 2012 (editorially revised August 2019).

7.0 IDENTIFICATION

- 7.1 The components of the fireplace units, including mortar and grout, are supplied to the jobsite on a factory-assembled, shrink-wrapped pallet bearing a label with the company name (Masonry Fireplace Industries, LLC; Capo Fireside; or Burntech Fireplace Solutions) and address; the product name; the address of the manufacturing plant; and the evaluation report number (ESR-2401). A permanent label must be attached to the installed fireplace by the contractor, identifying the report holder's or additional listee's name; the product name; the manufacturing location; the date of manufacture and the serial number; the clearances to combustibles; other information required by UL 127; and the evaluation report number (ESR-2401).
- 7.2 The report holder's contact information is the following:

MASONRY FIREPLACE INDUSTRIES, LLC 6391 JURUPA AVENUE RIVERSIDE, CALIFORNIA 92504 (800) 345-7078 www.mason-lite.com

7.3 The Additional Listees' contact information is the following:

BURNTECH FIREPLACE SOLUTIONS 6250 PLATT AVENUE, NO. 577 WEST HILLS, CALIFORNIA 91307 www.burntech.com

CAPO FIRESIDE 26401 VIA DE ANZA SAN JUAN CAPISTRANO, CALIFORNIA 92675 (949) 364-5118 www.capofireside.com



TABLE 1-MASON-LITE FIREPLACE WEIGHTS AND FLOOR AREA1

MFI MODEL	MFP-33	MFP-39	MGFP-39	MFP-44	MGFP-44	MFP-49	MGFP-49	MFP-63
CAPO FIRESIDE MODEL	AS33	AS39	ASG39	AS44	ASG44	AS49	ASG49	AS63
BURNTECH	TFS33	TFS39	GBVS39	TFS44	GBVS44	TFS49	GBVS49	TFS63
Fireplace Weight (lbs)	1,167	1,260	1,460	1,331	1,580	1,462	1,680	2,225
Damper/Anchor Plate, Firebrick, Grout & Mortar Weight (lbs)	350	380	380	430	430	480	480	550
Steel Platform Weight (lbs)	51	61	61	65	65	80	80	90
Maximum Chimney Weight (Ibs/lineal ft)	10	10	10	10	10	12	12	15
Chimney or Vent Size-I.D. (inches)	12	12	10	12	10	14 ²	10	16 ²
Floor Area	37 in. x 28 in. (7.2 ft²)	42 in. x (8.12		_	x 28 in. 33 ft ²)	53 in. x 28 in. (10.30 ft²)		67 in. X 28 in. (13.03 ft ²)

For SI: 1 lb = 4.45 N, 1 in. = 25.4 mm, 1 lb/lineal ft. = 0.0146 N/mm, 1 ft² = 0.092 mm².

TABLE 1A-MASON-LITE VENT FREE FIREPLACE WEIGHTS AND FLOOR AREA

MFI MODEL	MFP-39VF	MFP-44VF	MFP-49VF
CAPO FIRESIDE MODEL	ASVF-39	ASVF-44	ASVF49
BURNTECH	VFS39	VFS44	VFS49
Fireplace Weight (lbs)	809	896	987
Mortar, Rebar & Ready Mix Concrete Weight (lbs)	350	357	364
Firebrick Lining Weight (lbs)	333	345	356
Floor Area	43 in. x 28 in. (8.12 ft²)	48 in. x 28 in. (9.33 ft ²)	53 in. x 28 in. (10.33 ft ²)

For **SI**: 1 lb = 4.45 N, 1 in. = 25.4 mm, 1 ft² = 0.092 mm².

TABLE 2—SEISMIC DESIGN PARAMETERS

PARAMETER	VALUE
Amplification factor, a _p	1.0
Component response modification factor, R _p .	1.5
Maximum z/h factor; where z is the height in structure with respect to grade at point of attachment of the fireplace and h is the average roof height of structure with respect to the base elevation	0
Fundamental period of the fireplace, T _p	0.16
Maximum Spectral response acceleration parameter, S _{Ds}	1.25

TABLE 3—DEFLECTION LIMITS

CONSTRUCTION	L	S or W	D +L ₁
Floor members	1/360		1/240

¹For wood structural members having a moisture content of less than 16 percent at time of installation and used under dry conditions, the deflection resulting from L + 0.5D is permitted to be substituted for the deflection resulting from L + D. (Note: contents of this table are from IBC Table 1604.3).

¹MFP, AS and TFS designates fireplace used with a UL 103 complying listed factory-built chimney. MGFP, ASG and GBVS designates fireplace used with a listed Type B gas vent.

²AS49 fireplace requires the use of a 12-inch-diameter listed flue system. The MFP-63, AS63 and TFS63 fireplaces require the use of a dual 12-inch-diameter flue system or a single 16-inch-diameter flue system.

- ICC-ES^{*} Most Widely Accepted and Trusted

TABLE 4—MINIMUM CLEARANCE TO COMBUSTIBLES FOR MFP, TFS AND MM SERIES WOOD-FIRED FIREPLACE SYSTEMS (inches)

Unit front, sides, rear:	2
Combustible Floor (MFP-33 through MFP-49):	6
Combustible Sheathing above opening top:	18
Combustible Floor (MFP-63):	8
Sheathing or trim to opening sides:	8
Mantle above opening	12
Opening to sidewall:	24
Hearth extension beyond front:	20
Hearth extension beyond sides:	12
Insulation from firebox:	2

For SI: 1 inch=25.4 mm.

TABLE 5—MINIMUM CLEARANCE TO COMBUSTIBLES FOR MGFP, ASG AND GBVS SERIES GAS-FIRED FIREPLACE SYSTEMS (inches)

Back/Side(s)				
Тор				
Vent				
Front ¹				
Perpendicular Walls	8			
Floor	0			
Ceiling	24			
Mantle ²	3			

For SI: 1 inch=25.4 mm.

TABLE 6—MINIMUM CLEARANCE TO COMBUSTIBLES FOR MFP-VF, VFS AND AS-VF SERIES GAS-FIRED VENT FREE FIREPLACE SYSTEMS (inches)

0
0
0
3
42
None 1
1½1
3 ¹
6 ¹
8 ¹
10 ¹

For SI: 1 inch=25.4 mm.

TABLE 7—WOOD-BURNING FIREPLACES FOR USE WITH GLASS DOORS1

Mason- Lite™ Fireplace Model	Mason- Lite™ Glass Door Model	Burntech Fireplace Model	Burntech Glass Door Model	Capo Fireside Fireplace Model	Capo Fireside Glass Door Model	Glass Panel Width (inch)	Overall Glass Door Width (Inch)	Glass Door height (inch)
MFP-33	MFP-33-GD	TFS33	TFS-33-GD	AS33	AS-33-GD	14 ¾	29 ½	20
MFP-39	MFP-39-GD	TFS39	TFS-39-GD	AS39	AS-39-GD	17 1/4	34 ½	28
MFP-44	MFP-44-GD	TFS44	TFS-44-GD	AS44	AS-44-GD	19 ¾	39 ½	28
MFP-49	MFP-49-GD	TFS49	TFS-49-GD	AS49	AS-49-GD	22 1/4	44 ½	28

For SI: 1 inch=25.4 mm.

¹Top of louver opening to ceiling.

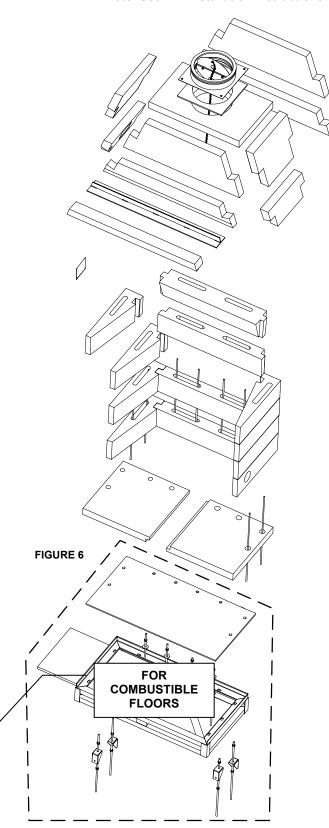
²3-inch wide mantle.

¹Maximum mantle projection.

¹The vented gas-fired fireplaces described in Section 3.4 may be installed with a Crown-Breckinridge glass door or a McKenzie-Pendelton glass door.

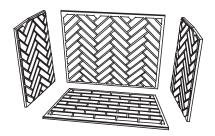
FIREPLACE PARTS DIAGRAM MODELS MFP33/39/44/49

Note: See MFI installation instructions for a complete description of the items shown.





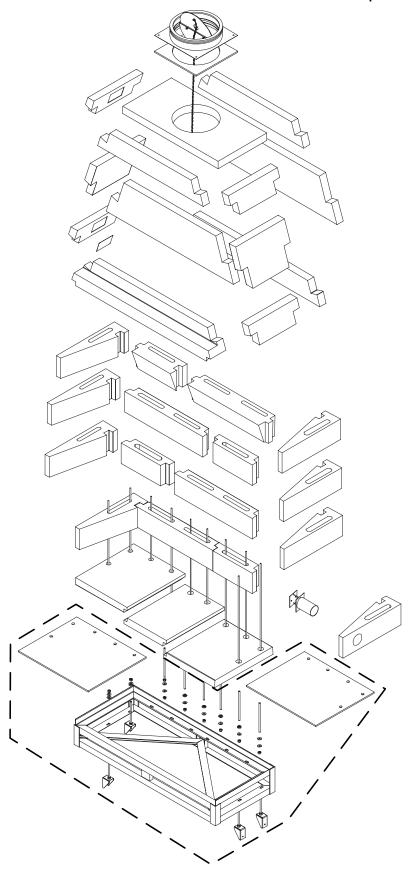
Optional Outside Ø4" Combustion Air Kit Model No.: MFP4-AK



MFPXXSHBL- Herringbone MFPXXFRBL- Running Bond

FIREPLACE PARTS DIAGRAM MODEL MFP63

Note: See MFI installation instructions for a complete description of the items shown.





Optional Outside Ø4" Combustion Air Kit Model No.: MFP4-AK



MFP63SHBL- Herringbone MFP63FRBL- Running Bond

MODELS MFP-63, AS63, TFS63

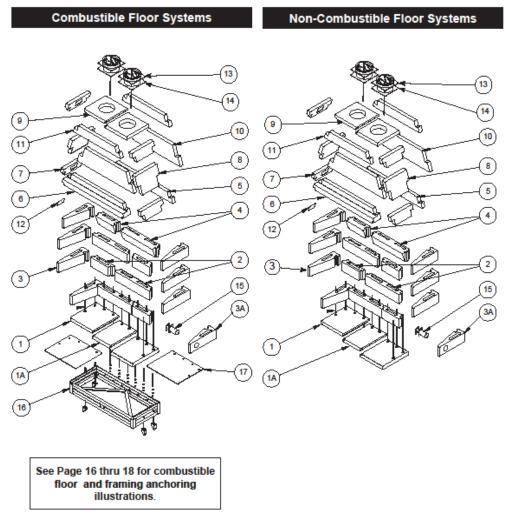


FIGURE 2 (Continued)

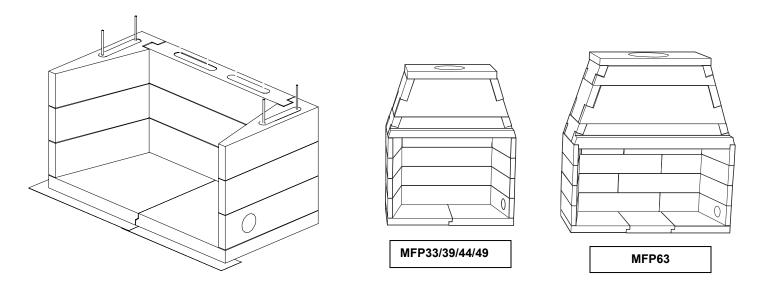


FIGURE 3—MASON-LITE ASSEMBLED FIREPLACE COMPONENTS



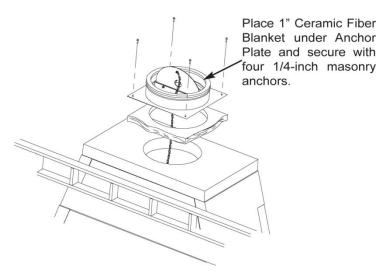
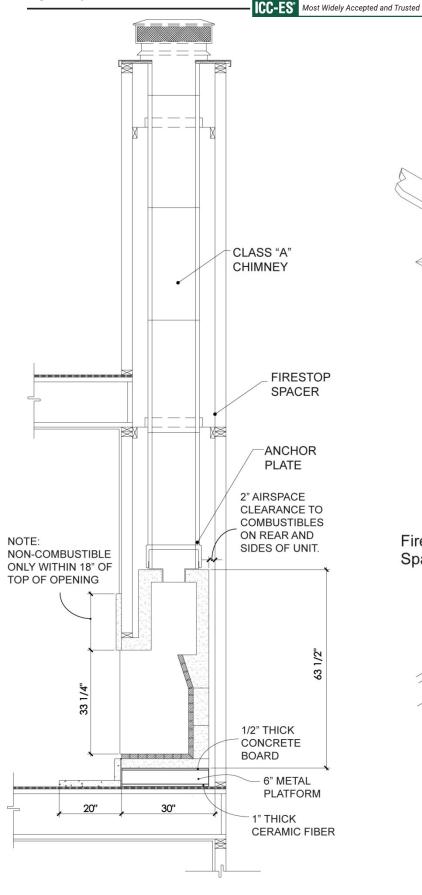


FIGURE 4



Firestop Spacer with Living Space Above Ceiling

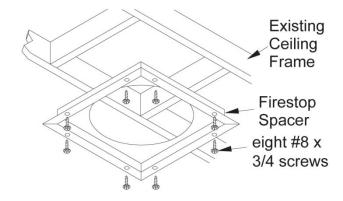


FIGURE 6

Firestop Spacer with Attic Space Above Ceiling

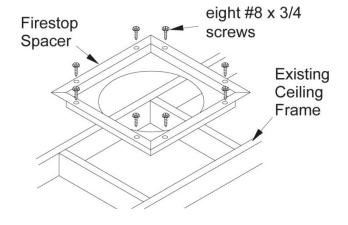


FIGURE 7

FIGURE 5

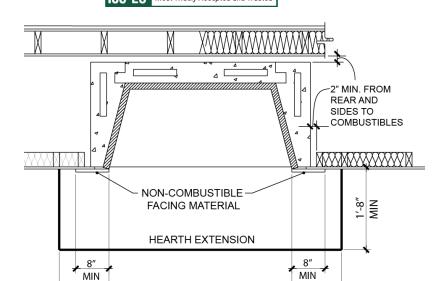


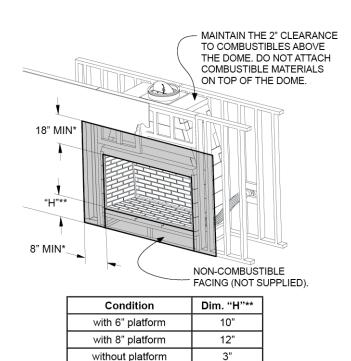
FIGURE 8

1'-0"

MIN

1'-0"

MIN



* MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS.
** MEASURED FROM FLOOR TO TOP OF FIREBRICK LINER.

without platform

FIGURE 9

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SOIL ALLOWABLE BEARING PRESSURE USED IN DESIGN IS 1500 PSF.
REINFORCHIG STEL SHALL CONFORM TO ASTM 615, GRADE 60.
THREADED RODS SHALL CONFORM TO ASTM F 1554, GRADE 36.
ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF
THE 2009 AND 2012 INTERNATIONAL BUILDING CODE & LOCAL CITY OR COUNTY REQUIREMENTS. SOIL SUPPORTING FOOTINGS IS NATIVE SOIL.

5.5.4.3

STRUCTURAL NOTES

SPECIAL INSPECTION
1. SPECIAL INSPECT
2. SPECIAL INSPECT

SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF THE 2009 AND 2012 IBC.
SPECIAL INSPECTORS SHALL:
A) BE UNDER THE SUPERVISION OF A REGISTERED DESIGN PROFESSIONAL.
B) BUSENVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DRAWINGS OF SPECIFICATIONS. ASSIGNED FOR CONFORMANCE WITH THE APPROVED DRAWINGS OF SPECIFICATION REPORTS TO THE ENGINEER AND BUILDING DEPARTMENT.
DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTED. TO THE ENGINEER AND BUILDING DEPARTMENT.

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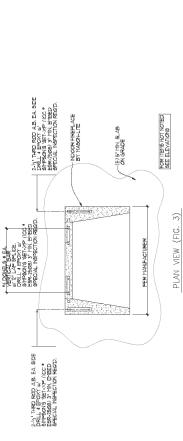
PATILIZABLE WATANAMAN NOTES.

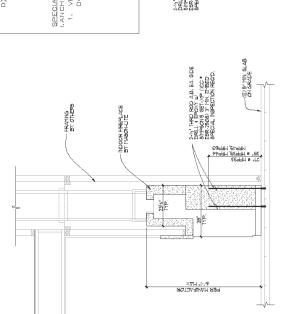
CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS RECONSTRUCTION INSPECTIONS LISTENATIONAL BUILDING CODE. SPECIAL INSPECTION NOT A BUILDING CODE. SPECIAL INSPECTION WORK WHICH IS INSTALLED OR COVERED WITHOUT A BUILDING OFFICIAL. SPECIALLY INSPECTION WORK WHICH IS INSTALLED OR COVERED WITHOUT A PREVOVAL OF THE BUILDING OFFICIAL IS SPECIALLY NOTE.

CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING PERFORMANCE OF THE SPECIAL INSPECTION SPECIAL INSPECTIOR SPECIAL INSPECTIOR OF THE OWNER TO INFORM THE SPECIAL INSPECTOR OR THE OWNER TO INFORM THE SPECIAL INSPECTOR OR THE OWNER TO INFORM THE SPECIAL INSPECTOR OR THAT REQUIRES SPECIAL INSPECTOR. ALL LAST ON WORK IN ALL WORK PERFORMED AND YEAR OF THE OWNER TO INFORM THE SPECIAL INSPECTOR OR THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION.

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SPECIAL INSPECTION REQUIRED.
1.ANCHORS, ANCHOR BOLTS, & DOWELS
1. VERFY MANUFACTURERS INSTALLATION REQUIREMENTS (AND TESTING) OF EPOXIED DOWELS IN CONCRETE AT (HOLDOWNS) (EXISTING FOOTINGS) (CONCRETE REPAIRS).





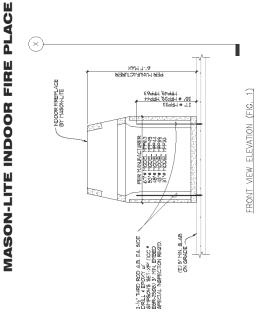
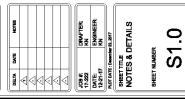


FIGURE 10—MASON-LITE INSTALLATION DETAILS-2012, 2009 AND 2006 IBC AND IRC

x) SIDE VIEW ELEVATION (FIG. 2)



RIVERSIDE CA 92504



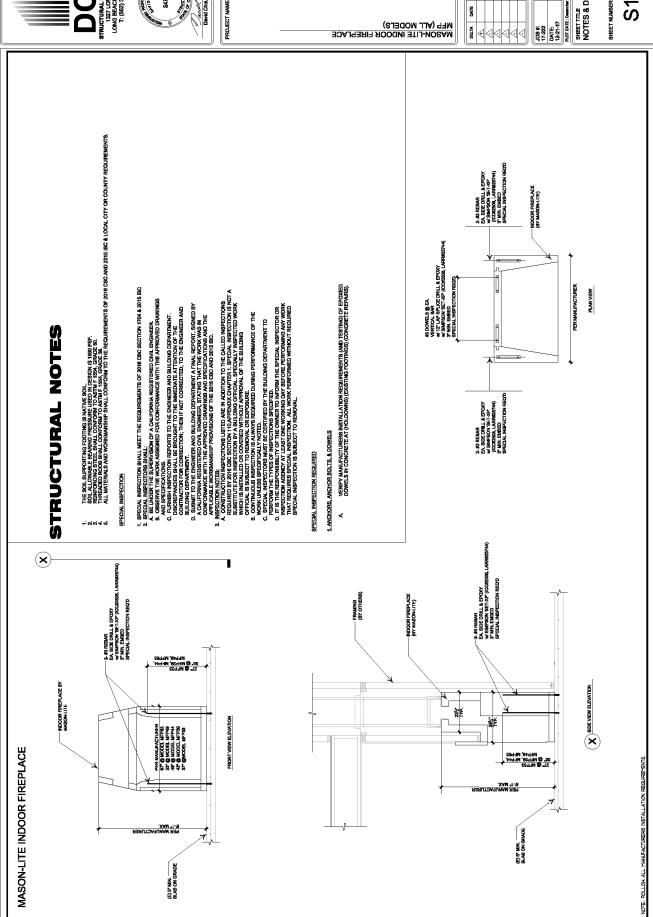


FIGURE 11—MASON-LITE INSTALLATION DETAILS 2018 AND 2015 IBC AND IRC



ICC-ES Evaluation Report

ESR-2401 LABC and LARC Supplement

Reissued January 2024

This report is subject to renewal January 2026.

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A Subsidiary of the International Code Council®

DIVISION: 10 00 00—SPECIALTIES

Section: 10 31 00—Manufactured Fireplaces

REPORT HOLDER:

MASONRY FIREPLACE INDUSTRIES, LLC

EVALUATION SUBJECT:

MASON-LITE MODULAR CONCRETE FIREPLACES

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Mason-Lite Modular Concrete Fireplaces described in ICC-ES evaluation report <u>ESR-2401</u>, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The Mason-Lite Modular Concrete Fireplaces, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-2401</u>, comply with LABC Chapters 13 and 28 and LARC Section R1004 (with the exception of LARC Section R1004.1.1), and are subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Mason-Lite Modular Concrete Fireplaces, described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-2401.
- The design, installation, conditions of use and identification are in accordance with the 2018 *International Building Code*[®] (IBC) and 2018 *International Residential Code*[®] (IRC) provisions noted in the evaluation report ESR-2401.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- The Mason-Lite Modular Concrete Fireplaces are not approved for use with solid wood logs.
- The Mason-Lite Modular Concrete Fireplaces, vented gas-fired, comply with ANSI Z21.50, and are constructed in the field and vented with a 10-inch diameter listed Type B gas vent as described in the evaluation report ESR-2401.
- The Mason-Lite Modular Concrete Fireplaces, when installed with a decorative gas appliance listed in accordance with ANSI Z21.60, shall be terminated with a 10-inch diameter listed Type B gas vent as described in the evaluation report <u>ESR-2401</u>.
- The Mason-Lite Modular Concrete Fireplaces, unvented gas-fired, comply with ANSI Z21.91 and are constructed in the field
 with an unvented decorative room heater complying with ANSI Z21.11.2 as described in the evaluation report
 ESR-2401.
- When installed with doors, the Mason-Lite Modular Concrete Fireplaces must be installed with the doors specified in the
 evaluation report <u>ESR-2401</u>, and when required by the California Energy Code (CEC), the combustible air intake specified
 in the evaluation report <u>ESR-2401</u>.



- The exterior air supply system to the fireplaces must comply with the requirements noted in 2020 LABC Section 2111.14.1 or 2020 LARC Section R1006, as applicable.
- The installation of the Mason-Lite Modular Concrete Fireplaces is limited to base floor and seismic parameters noted in Table 2 of the evaluation report ESR-2401.
- Use of the Mason-Lite Modular Concrete Fireplaces, when subject to the 2020 Los Angeles City Green Building Code, must conform to the applicable section of 4.503.1 or 5.503.1 that requires the installation of a direct vent or sealed combustion chamber.
- The Mason-Lite Modular Concrete Fireplace installations in new or existing construction must conform to the provisions of South Coast Air Quality Management District Rule 445.
- The Mason-Lite Modular Concrete Fireplaces must be installed in accordance with the manufacturer's published installation instructions, the 2020 LABC or 2020 LARC, and the evaluation report ESR-2401. A copy of the manufacturer's published installation instructions must be available at the jobsite.

This supplement expires concurrently with the evaluation report, reissued January 2024.