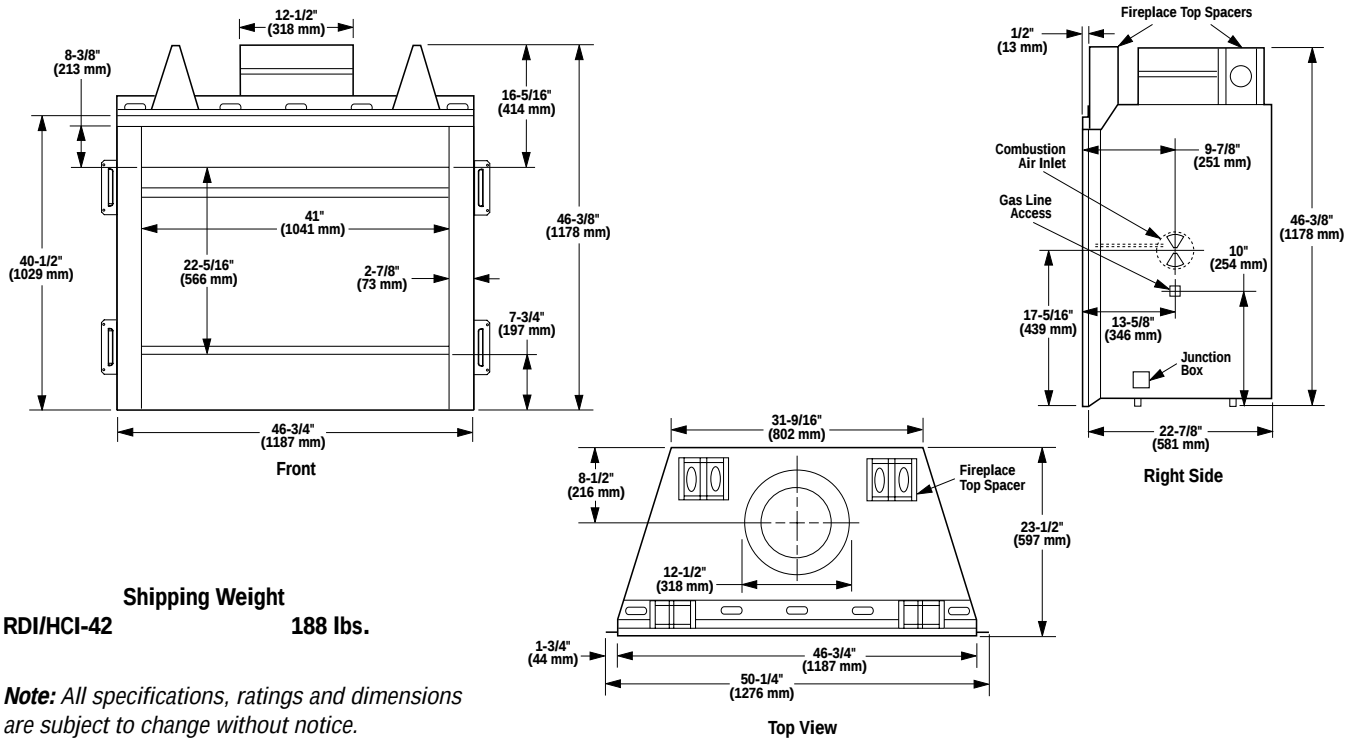


# MERIT™ SERIES RDI-42 & HCI-42

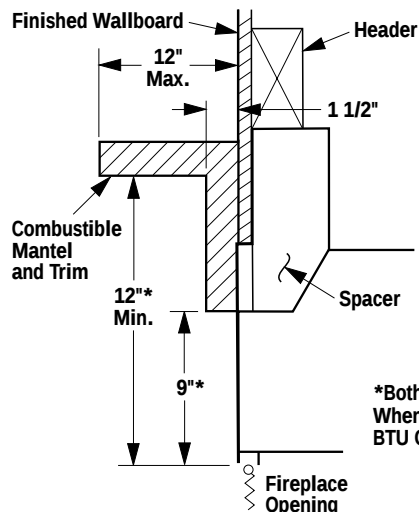
## Appliance Specifications



## Fireplace Finishes

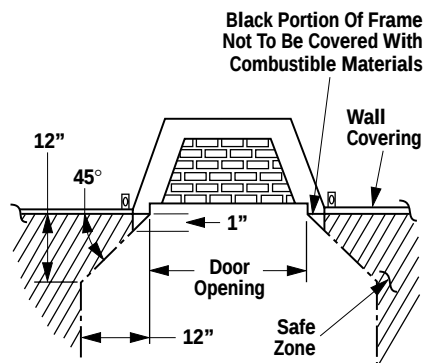
### Mantels And Trim

Combustible mantels and trim may be installed 12" (305 mm) above the fireplace opening as per NFPA 211; Section 7-2.3.3. and the Mantel limitation diagram. If a mantel is of a noncombustible material, it is exempt from these requirements as long as it does not interfere with the installation or operation of glass doors.



### Vertical Surround Limitations

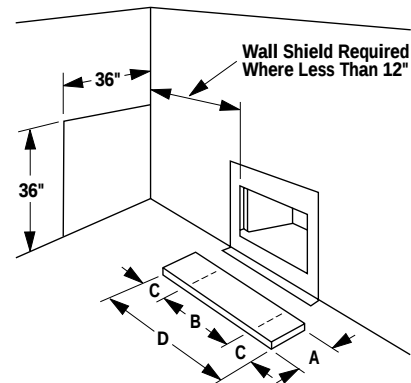
Combustible materials may project beyond the sides of the fireplace opening as long as they are kept within the shaded areas illustrated in the diagram below.



\*Both Of These Dimensions Must Be At Least 18" When An Unvented Gas Log Set Rated At 32,000 BTU Or Higher Is Used. (Maximum 40,000 BTU)

### Hearth Extensions

A hearth extension must be installed with all fireplaces. Its purpose is twofold. It protects a combustible floor in front of the fireplace from both radiant heat and sparks and it distinguishes the prescribed hearth extension area from other non-protected surfaces.



### Hearth Extension Dimensions

|   |               |
|---|---------------|
| A | 16" (406mm)   |
| B | 38" (965 mm)  |
| C | 8" (203 mm)   |
| D | 54" (1372 mm) |



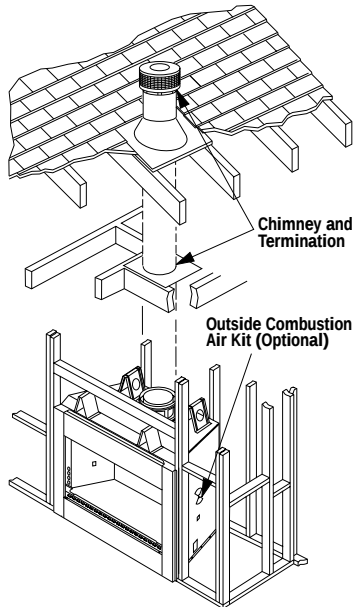
NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

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# MERIT™ SERIES RDI-42 & HCI-42

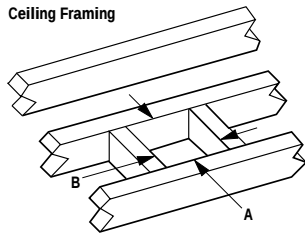
## Framing Specifications

### Typical Installation



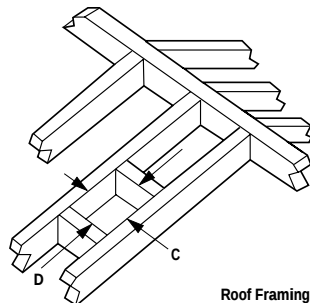
### Radiant Model Shown

#### Ceiling Framing



#### Framing Dimensions for Ceiling

| Flue Type       | A       | B       |
|-----------------|---------|---------|
| FTF8 Vertical   | 16 1/2" | 16 1/2" |
| FTF8 Offset 30° | 16 1/2" | 27"     |



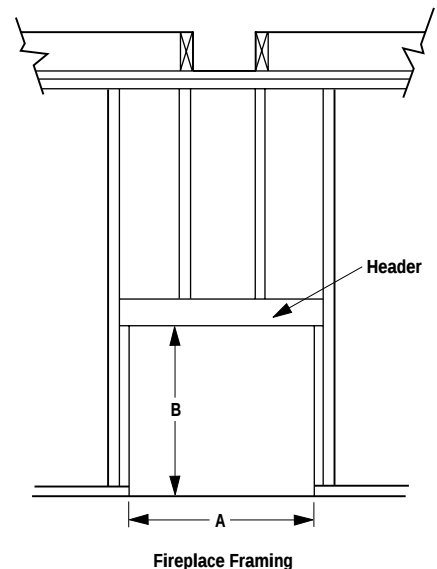
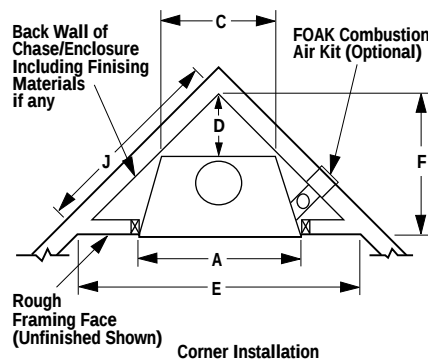
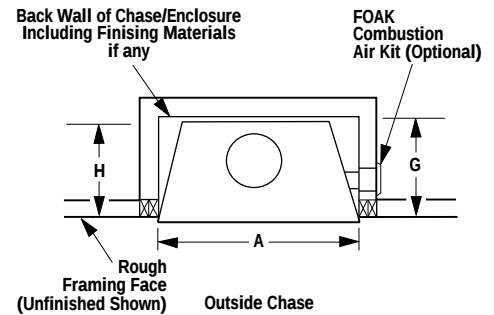
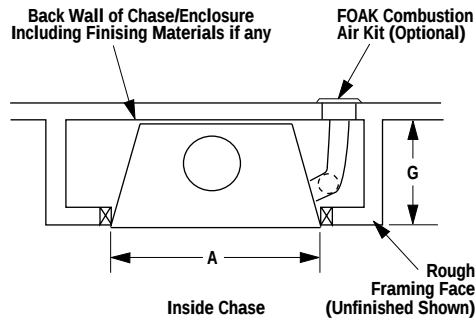
Roof Framing

#### Framing Dimensions for Roof

| Pitch | C       | D*      |
|-------|---------|---------|
| 0/12  | 16 1/2" | 16 1/2" |
| 6/12  | 16 1/2" | 19"     |
| 12/12 | 16 1/2" | 23 1/2" |

\* Perpendicular to roof ridge

**Note:** All framing dimensions calculated for 1/2" dry wall at the appliance face. If sheathing the chase or finishing with other thickness materials, calculations will need to be made.



**Note:** For millimeters multiply by 25.4

### Framing Dimensions

|            | A   | B       | C   | D       | E   | F       | G   | H   | J       |
|------------|-----|---------|-----|---------|-----|---------|-----|-----|---------|
| RDI/HCI-42 | 49" | 46-1/2" | 33" | 17-1/2" | 81" | 40-3/8" | 24" | 23" | 57-1/4" |



NOTE: DIAGRAMS & ILLUSTRATIONS NOT TO SCALE.

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