



**FLARE** FIREPLACES SERVICE BULLETIN  
*PASSIVE – HEAT FLEX INSTALLATION (V 2.3)*

CSA Approved

Safety and Quality First

Service Technician Use Only

Contact Flare Fireplaces for  
Support

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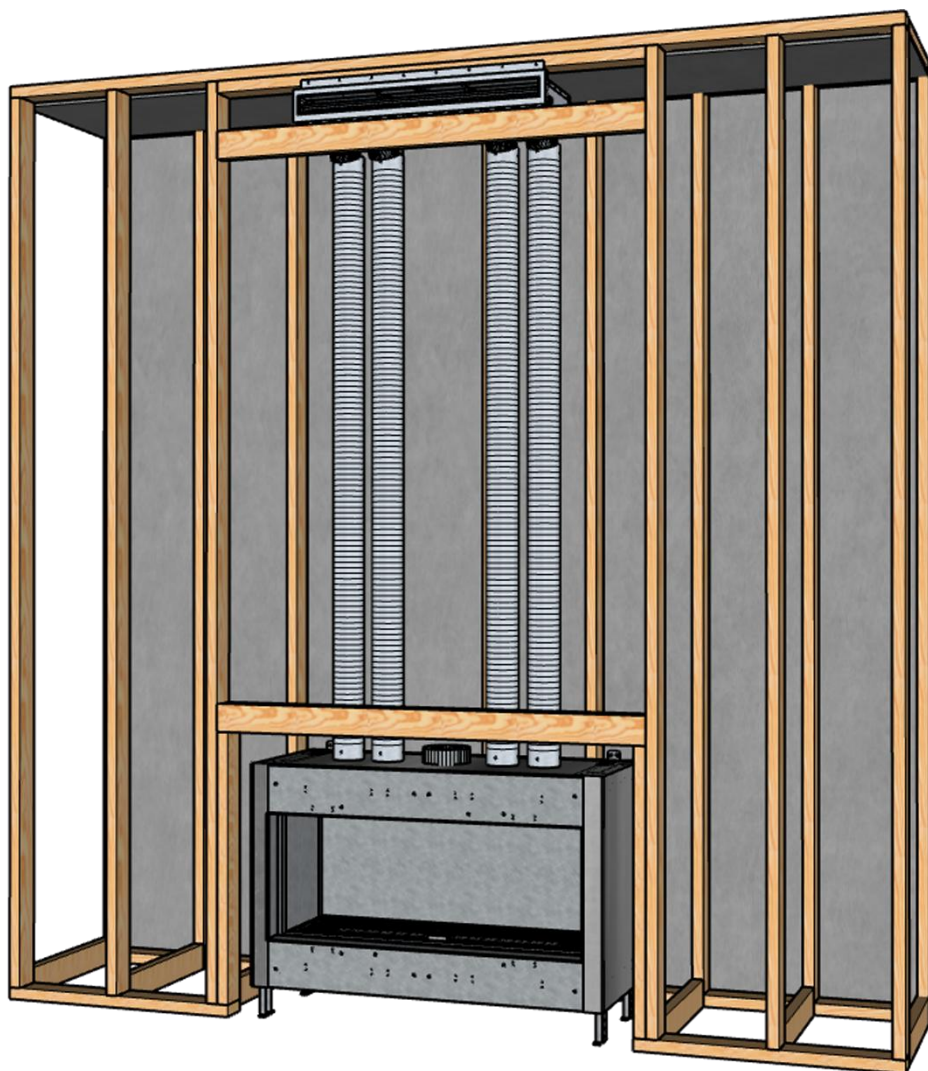
**Caution:** Read and understand this service bulletin thoroughly before beginning. Only a trained, and experienced service technician should attempt this procedure



## PASSIVE HEAT FLEX – HEAT RELEASE

The Passive Heat Flex system efficiently redirects heat away from the top of the fireplace to ensure safe installation in various framing applications. A sheet metal wrapper captures rising heat, which is then transferred through [DuraFlex](#) ducting to the passive heat flex box where it recirculates back into the room through our standardized louvered release.

This system helps maintain proper clearances while allowing you to frame and finish around the fireplace with combustible materials, ensuring both safety and design flexibility.





## PASSIVE HEAT FLEX – COMPONENT SIZING CHART

| Passive Heat Flex Kits |                          |                                          |                    |                         |
|------------------------|--------------------------|------------------------------------------|--------------------|-------------------------|
| Model Size             | Part Name                | Description                              | Flex Quantity/Size | SKU                     |
| 30                     | <a href="#">HFPK-70</a>  | Passive Heat Flex Kit for 30" Fireplace  | 4 / 4"             | <a href="#">HFPK70</a>  |
| 45                     | <a href="#">HFPK-100</a> | Passive Heat Flex Kit for 45" Fireplace  | 4 / 4"             | <a href="#">HFPK100</a> |
| 50                     | <a href="#">HFPK-100</a> | Passive Heat Flex Kit for 50" Fireplace  | 4 / 4"             | <a href="#">HFPK100</a> |
| Traditional 42         | <a href="#">HFPK-120</a> | Passive Heat Flex Kit for 60" Fireplace  | 4 / 4"             | <a href="#">HFPK120</a> |
| Traditional 46         | <a href="#">HFPK-120</a> | Passive Heat Flex Kit for 60" Fireplace  | 4 / 4"             | <a href="#">HFPK120</a> |
| Passage                | <a href="#">HFPK-120</a> | Passive Heat Flex Kit for 60" Fireplace  | 4 / 4"             | <a href="#">HFPK120</a> |
| 60                     | <a href="#">HFPK-120</a> | Passive Heat Flex Kit for 60" Fireplace  | 4 / 4"             | <a href="#">HFPK120</a> |
| 70                     | <a href="#">HFPK-120</a> | Passive Heat Flex Kit for 70" Fireplace  | 4 / 4"             | <a href="#">HFPK120</a> |
| 80                     | <a href="#">HFPK-180</a> | Passive Heat Flex Kit for 80" Fireplace  | 6 / 6"             | <a href="#">HFPK180</a> |
| 100                    | <a href="#">HFPK-180</a> | Passive Heat Flex Kit for 100" Fireplace | 6 / 6"             | <a href="#">HFPK180</a> |

| Flare Model    | Heat Flex - Louvers     |                    |                     |
|----------------|-------------------------|--------------------|---------------------|
|                | Part Name               | Dimension (Inches) | Open Air Flow [SQ"] |
| Flare 30       | <a href="#">LUV-70</a>  | 32 1/4 x 2 5/32    | 70"                 |
| Flare 45       | <a href="#">LUV100</a>  | 46 3/64 x 2 5/32   | 100"                |
| Flare 50       | <a href="#">LUV100</a>  | 46 3/64 x 2 5/32   | 100"                |
| Traditional 42 | <a href="#">LUV-120</a> | 55 19/64 x 2 5/32  | 120"                |
| Traditional 46 | <a href="#">LUV-120</a> | 55 19/64 x 2 5/32  | 120"                |
| Passage        | <a href="#">LUV-120</a> | 55 19/64 x 2 5/32  | 120"                |
| Flare 60       | <a href="#">LUV-120</a> | 55 19/64 x 2 5/32  | 120"                |
| Flare 70       | <a href="#">LUV-120</a> | 55 19/64 x 2 5/32  | 120"                |
| Flare 80       | <a href="#">LUV-180</a> | 82 15/16 x 2 5/32  | 180"                |
| Flare 100      | <a href="#">LUV-180</a> | 82 15/16 x 2 5/32  | 180"                |

| Flare Model    | Heat Flex Box - Passive |                 |                     |                                |                         |
|----------------|-------------------------|-----------------|---------------------|--------------------------------|-------------------------|
|                | Part Name               | Length (Inches) | Open Air Flow [SQ"] | Collar Adapter & Flex Size (") | Collar Adapter Quantity |
| Flare 30       | <a href="#">HFB70</a>   | 32 3/4          | 70"                 | 4"                             | 4                       |
| Flare 45       | <a href="#">HFB100</a>  | 46 15/16        | 100"                | 4"                             | 4                       |
| Flare 50       | <a href="#">HFB100</a>  | 46 15/16        | 100"                | 4"                             | 4                       |
| Traditional 42 | <a href="#">HFB120</a>  | 56 3/4          | 120"                | 6"                             | 4                       |
| Traditional 46 | <a href="#">HFB120</a>  | 56 3/4          | 120"                | 6"                             | 4                       |
| Passage        | <a href="#">HFB120</a>  | 56 3/4          | 120"                | 6"                             | 4                       |
| Flare 60       | <a href="#">HFB120</a>  | 56 3/4          | 120"                | 6"                             | 4                       |
| Flare 70       | <a href="#">HFB120</a>  | 56 3/4          | 120"                | 6"                             | 4                       |
| Flare 80       | <a href="#">HFB180</a>  | 83 13/16        | 180                 | 6"                             | 6                       |
| Flare 100      | <a href="#">HFB180</a>  | 83 13/16        | 180                 | 6"                             | 6                       |



## PASSIVE HEAT FLEX - HEAT RELEASE OPEN AIR REQUIREMENTS

The following outlines the open-air flow requirement for the free flow heat management system.

1. Must remain open at all times.
2. Must be no less than 35" above the fireplace, with no maximum height.
3. Can be located on the front or back of the fireplace cavity
4. The heat release must be interior facing
5. The heat release must be oriented horizontally.
6. All sizing is assuming the cavity stops a minimum of 40" above the fireplace

Fireplaces sized **30"** the vent area must be at least **70 square inches of open-air flow**.

Fireplaces sized **45" – 50"** the vent area must be at least **100 square inches of open-air flow**.

\*Fireplaces sized **60" – 70"** the vent area must be at least **120 square inches of open-air flow**.

\*Please note this includes the **Traditional** and **Passage** fireplaces as well.

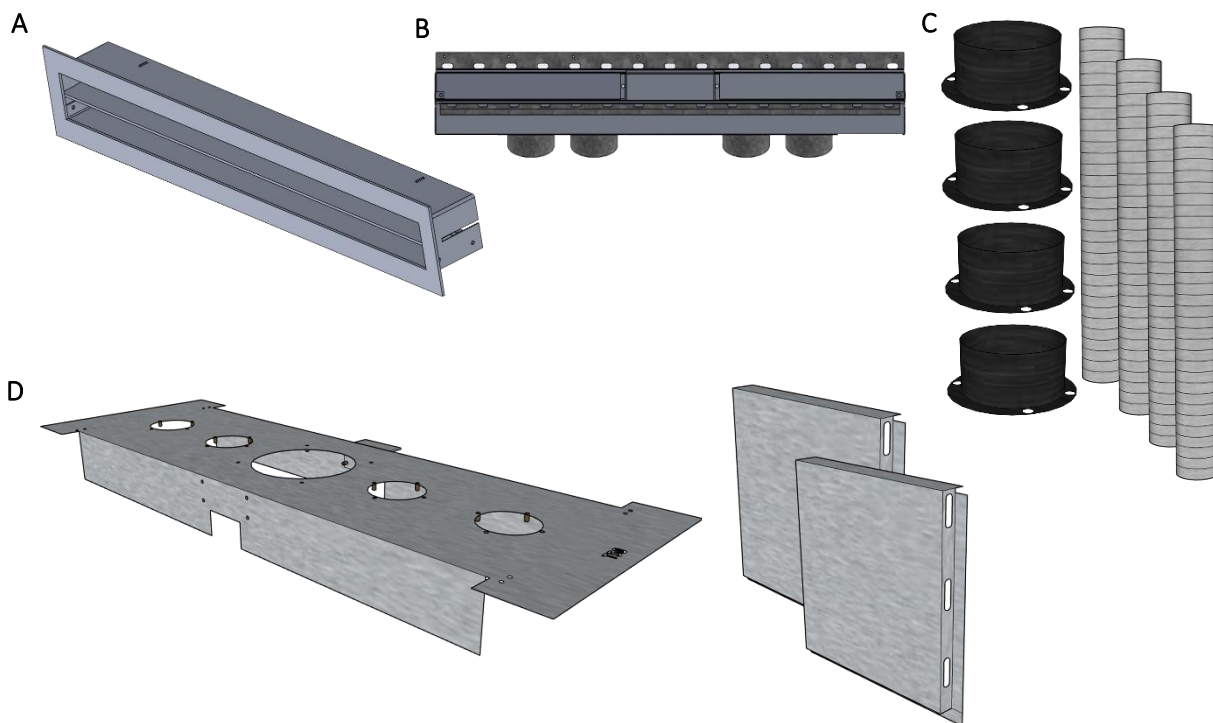
Fireplaces sized **80" – 100"** the vent area must be at least **180 square inches of open-air flow**.



## PASSIVE – HEAT FLEX COMPONENTS

The passive heat flex system is comprised of four key components:

- A. Exterior louver
- B. Heat flex box
- C. Flex pipe and adapters, 4 or 6 of each based on size of the fireplace | [DuraFlex Catalog](#)
- D. Sheet metal fireplace wrapper (top and sides) – Preinstalled

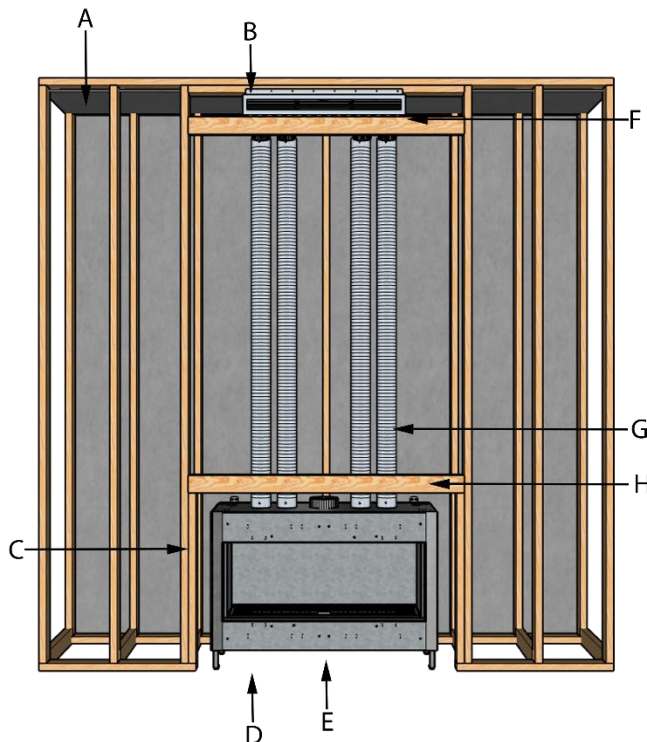




## PASSIVE HEAT FLEX – FRAMING CLEARANCES & MATERIALS

The following outlines clearances and materials important for a safe and successful Heat Flex installation.

- A. Non-combustible firestop must be a minimum of 40" above the top of the fireplace.
- B. The heat flex box will attach to wood studs using the mounting bracket on the top of the box.
- C. Uncovered wood studs must maintain a 3" clearance to the back and sides of the fireplace.
- D. 3" minimum clearance from the floor to the underside of the fireplace body.
- E. Air intake must be integrated for all double or triple glass equipped fireplaces and is sized based on the size of the fireplace.
- F. Bottom of the heat release louver and top of the mounting stud must be no lower than 35" above the fireplace, with no maximum height.
- G. Clearance to the flex pipe and heat shift box is 1".
- H. Uncovered wood header must maintain a 4" clearance above the top of the fireplace.



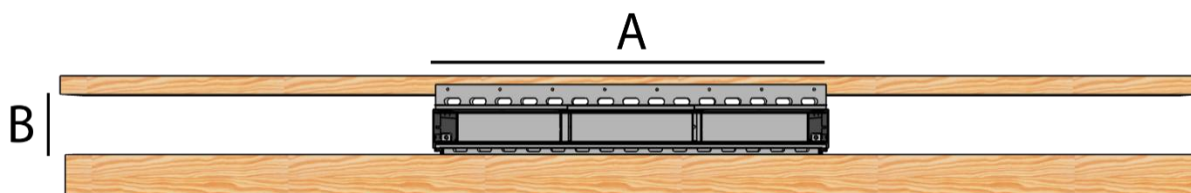
## NOTICE

For more detailed framing information please refer to your unit specific framing guide.



## STEP 1 – HEAT FLEX BOX FRAMING DIMENSIONS

To prepare your fireplace cavity for mounting the heat flex box follow the framing dimensions outlined below.



| Heat Flex Box Framing Dimensions |                        |         |        |
|----------------------------------|------------------------|---------|--------|
| Model                            | Heat Shift Box         | *A      | B      |
| TRA 42 & 46                      | <a href="#">HFB100</a> | 47 1/2" | 5 1/2" |
| Passage                          | <a href="#">HFB120</a> | 57"     | 5 1/2" |
| 30"                              | <a href="#">HFB70</a>  | 33"     | 5 1/2" |
| 45"                              | <a href="#">HFB100</a> | 47 1/2" | 5 1/2" |
| 50"                              |                        |         |        |
| 60"                              | <a href="#">HFB120</a> | 57"     | 5 1/2" |
| 70"                              |                        |         |        |
| 80"                              | <a href="#">HFB180</a> | 84 1/2" | 5 1/2" |
| 100"                             |                        |         |        |

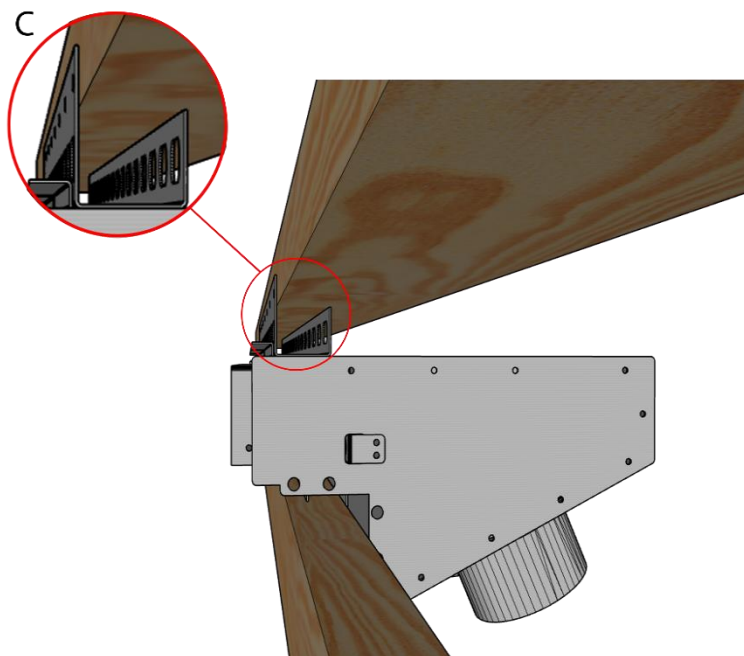
\*A represents the minimum width required to house the louver's mount.

## NOTICE

The top stud should lay on its side to properly attach to mounting flange and the bottom stud should stand on edge.

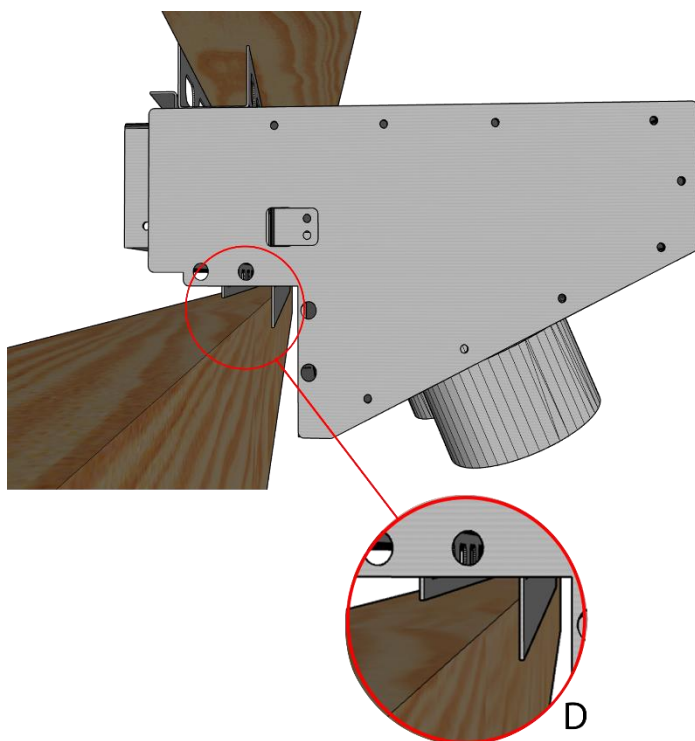
**C:** The heat flex box uses a metal standoff on it's top to provide an important clearance to the wood stud being used to attach the box.

The top stud must lay on its side and attach to the front flange, resting on top of the standoff.



**D:** The heat flex box uses a metal standoff on the bottom to provide an important clearance to the wood stud being used to help support the box.

The bottom stud must stand on edge and rest underneath standoff and against the back flange.



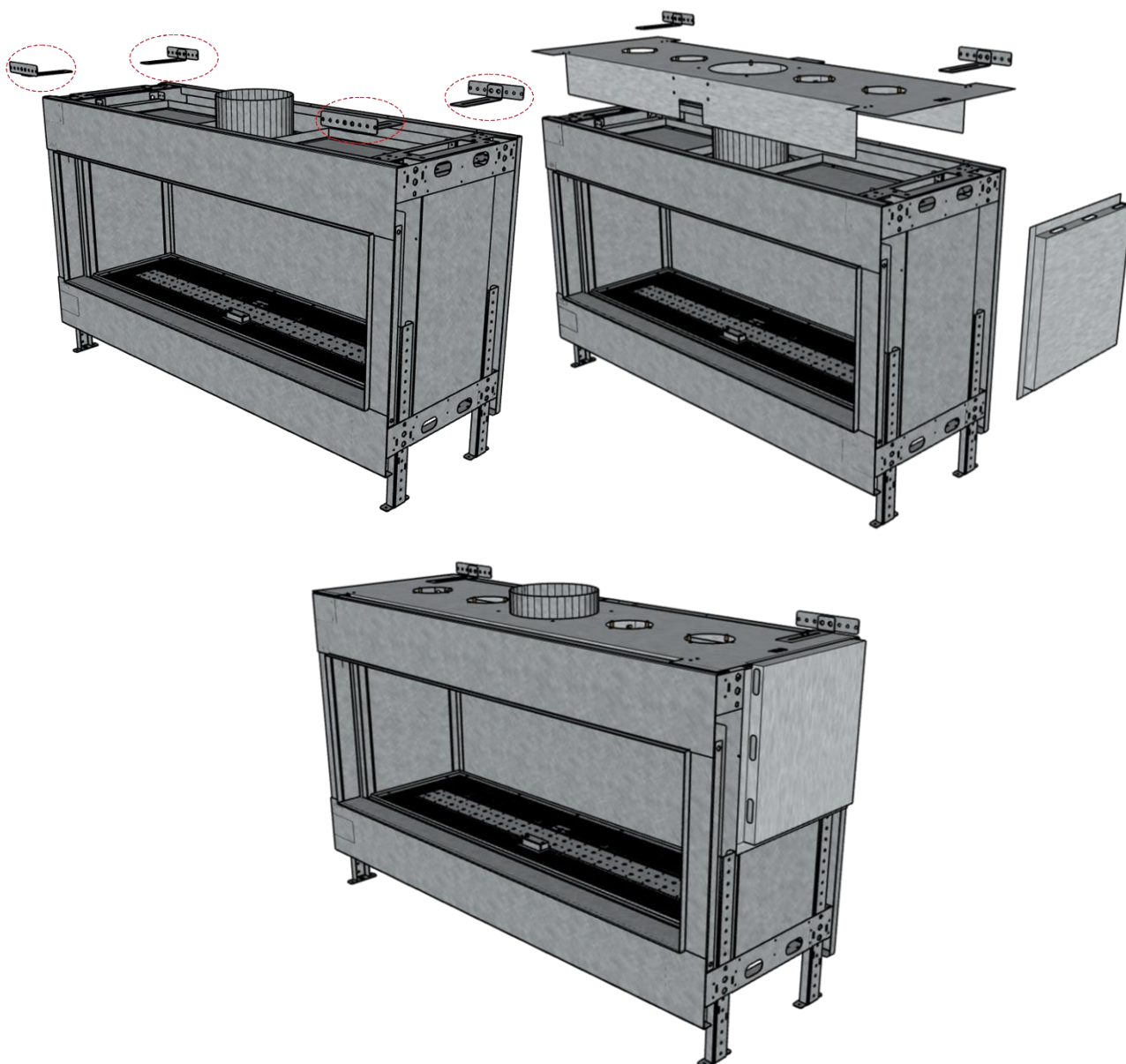


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## STEP 2 – ATTACH SHEET METAL TOP AND SIDES

The sheet metal topper and side panel should already be installed on your fireplace. In the event they need to be added please follow the instructions outlined below.

Remove the top brackets from all four corners of the fireplace. Place the sheet metal topper on top of the fireplace, then reinstall the brackets over the topper. Finally, position the side panel and secure it to the fireplace using self-tapping screws.





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### STEP 3 – ATTACH FLEX PIPE ADAPTERS

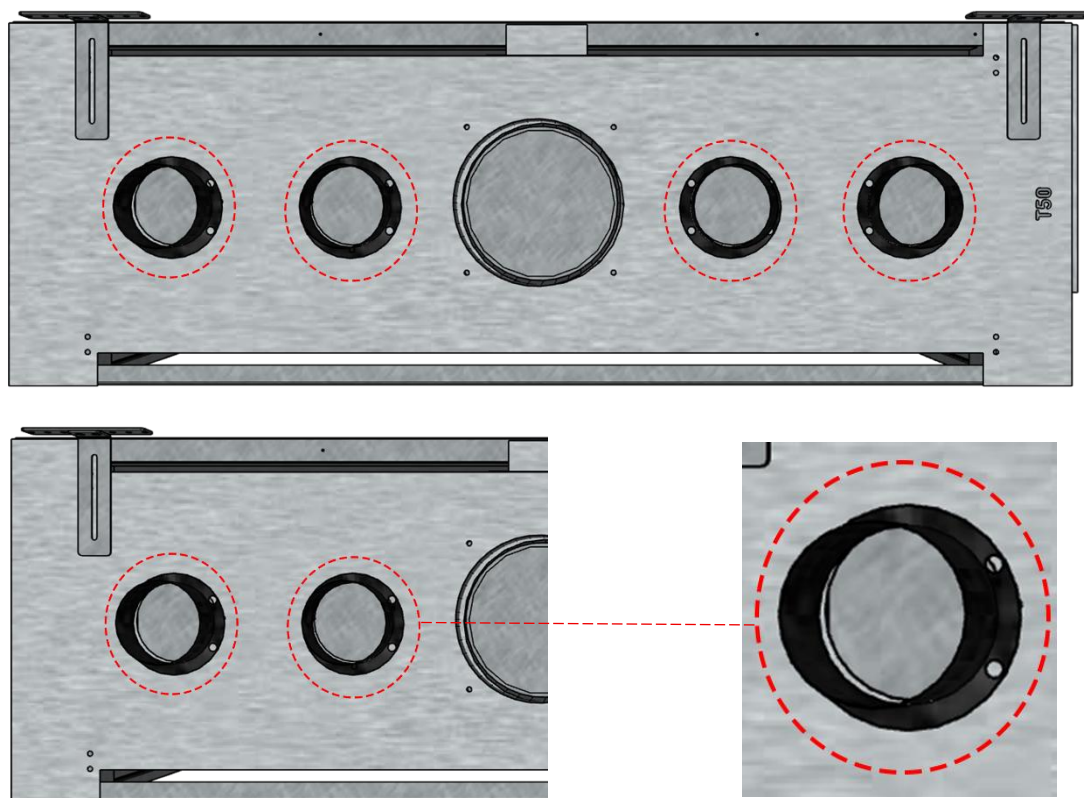
The 4" or 6" flex pipe adapters will need to be installed on top of the sheet metal cover using self-tapping screws. These adapters give us a mounting point for the flex pipe that is connected between the fireplace and the heat flex box above.

30" – 50" fireplaces will require **four** 4" flex pipe and adapters.

**\*60" – 70"** fireplaces will require **four** 6" flex pipe and adapters.

**\*Please note this includes the Traditional and Passage** fireplaces as well.

80" – 100" fireplaces will require **six** 6" flex pipe and adapters.



### NOTE

The number of adapters used is determined by the size of the fireplace being installed.

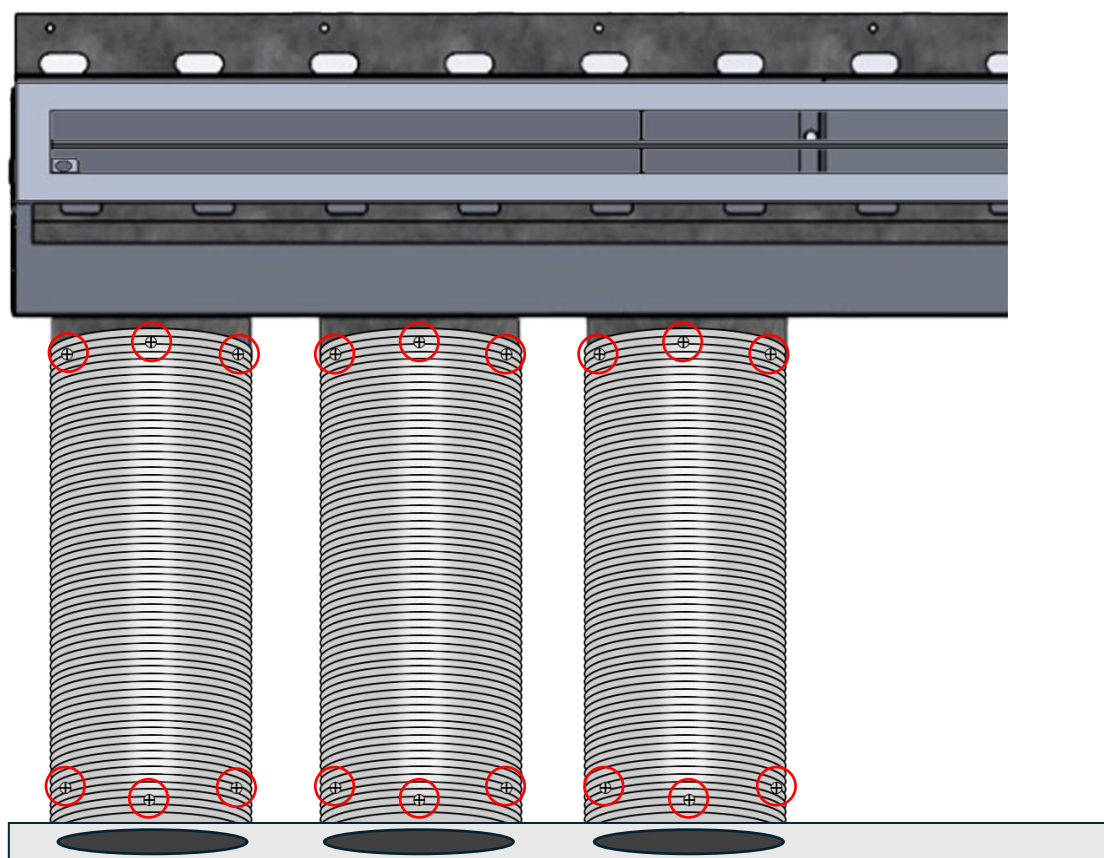


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### STEP 3 INSTALLING FLEX PIPE

Run flex pipe between the fireplace and heat flex box. Attach it by screwing the flex pipe into the adapters on top of the fireplace and on the heat flex box.

[DuraFlex Catalog](#)



### NOTE

The louvered release must be positioned no lower than 35" above the fireplace.



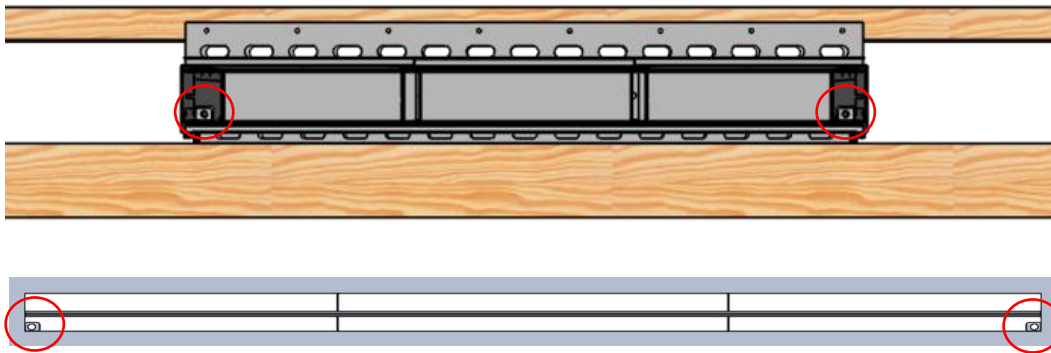
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## STEP 4 INSTALLING RELEASE LOUVER

Attach the standardized louver to the face of the heat flex box using the two mounting points on the box, as illustrated below. **The louver must be installed after finishing material.**

### 1. Heat Flex Box & Louver Mounting Points

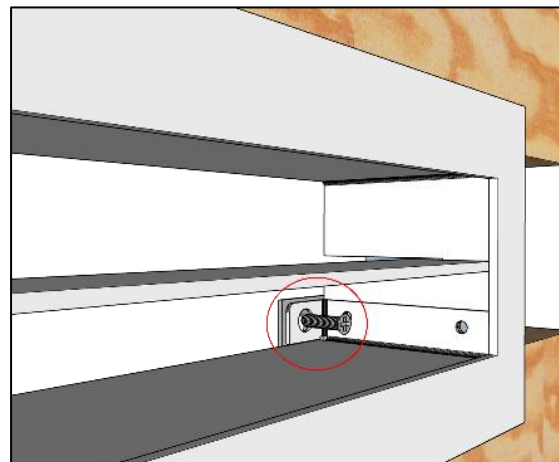
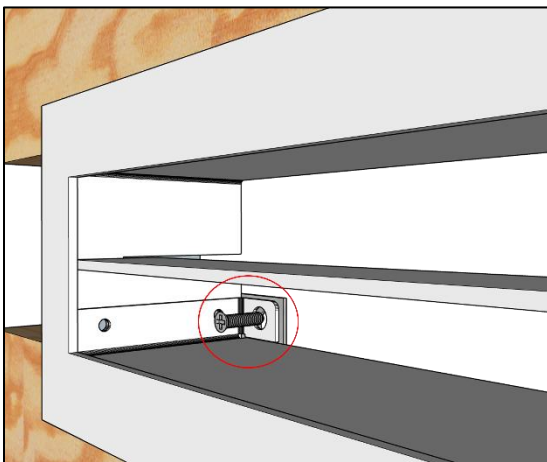
The louver gets inserted into the heat flex box and attached using the mounting points, highlighted in red below.



### 2. Louver Install– Attaching

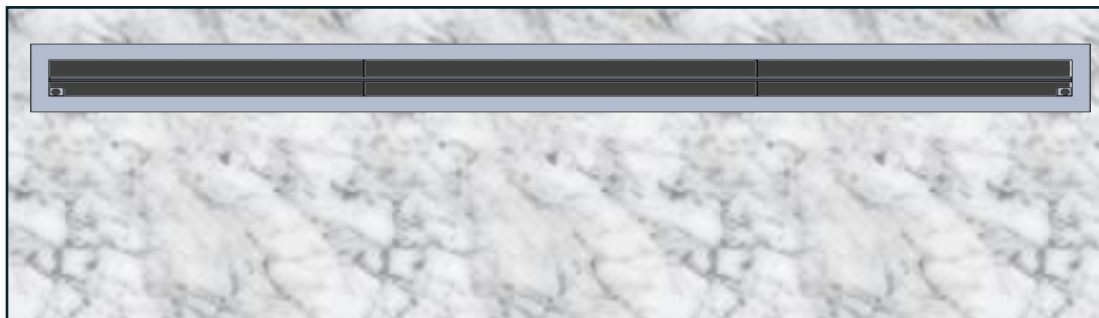
The louver slides in and sits on top of the finishing material and is attached to heat flex box by two screws, as illustrated below.

**Material around release can be combustible.**





Louver Installed Over Heat Flex Box



## NOTE

The louver depth is adjustable to accommodate different finishing material thicknesses. This adjustability is attained by using different screw lengths to secure the louver to the heat flex box mount.

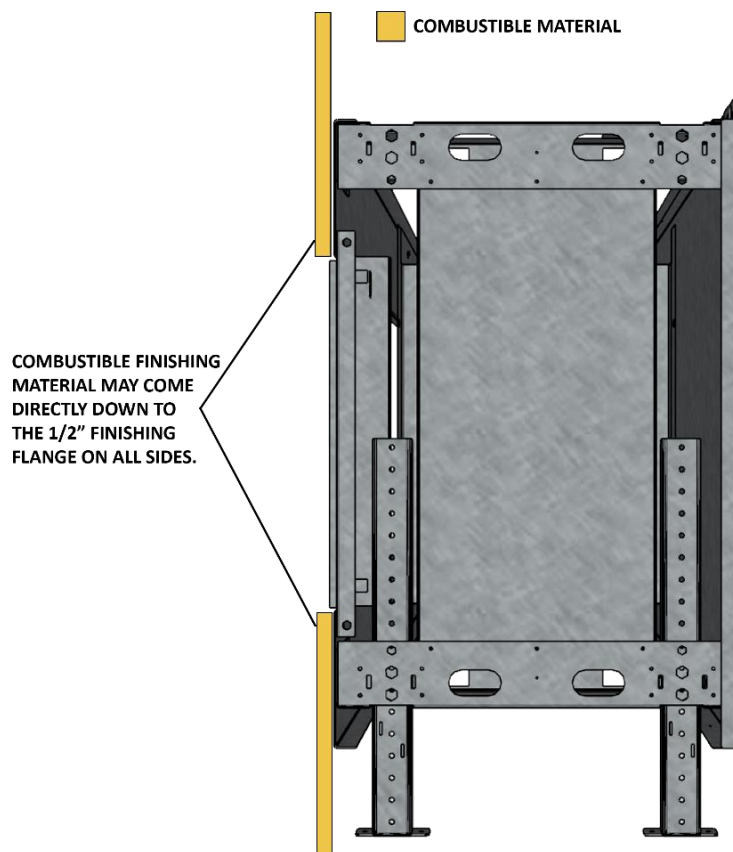


## FINISHING CLEARANCES

Depending on how you are finishing to the face of the fireplace either combustible or non-combustible finishing material (Anything that meets the ASTM E 136 standard) **MAY** be used. See Examples 1, 2, and 3 below for further details

### EXAMPLE 1

Combustible finishing material may come directly down to the 1/2" finishing flange when finishing flush with the face.



## NOTICE

Do not connect materials to or drill into the metal fireplace frame. This can result in excessive heat transfer and/or damage to the fireplace and surrounding materials.

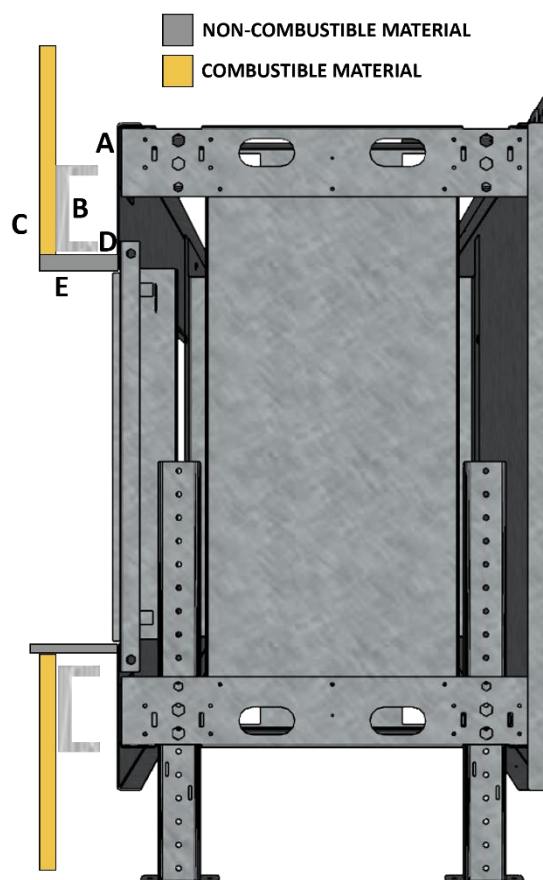


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## EXAMPLE 2

Using a combustible overhang.

- A.  $\frac{1}{2}$ " minimum clearance from the fireplace to metal stud framing.
- B. Metal stud.
- C. Combustible overhang.
- D. Combustible finishing material.
- E. Non-combustible overhang may range from 4.5" minimum up to 8".



## NOTICE

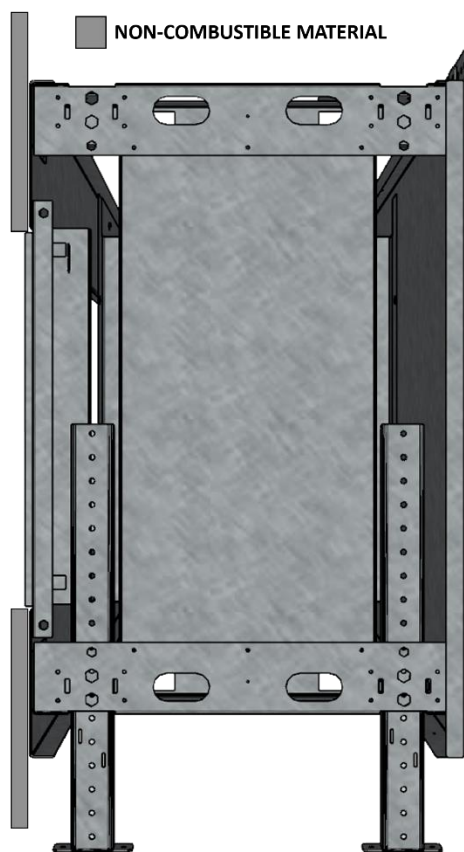
Do not connect materials to or drill into the metal fireplace frame. This can result in excessive heat transfer and/or damage to the fireplace and surrounding materials.



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### EXAMPLE 3

Bring any non-combustible material directly to the ½" finishing flange.



## NOTICE

Do not connect materials to or drill into the metal fireplace frame. This can result in excessive heat transfer and/or damage to the fireplace and surrounding materials.