

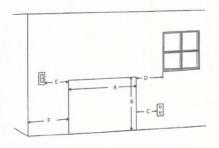
## Surround Installation

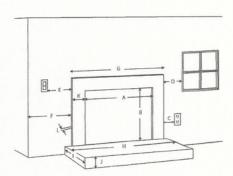


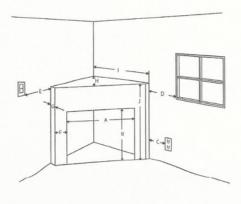
#### Mantel & Surround Planning Guide

Whether you are adding a fireplace to your home or giving an existing fireplace a much needed update, it can be approached in different ways. Careful planning upfront is an important key for ensuring a completely positive experience and outcome for your project. This guide shows three of the most common installations for a fireplace and will walk you through the measurements you need to keep in mind as you begin your project. Provide as much information as possible to your local hearth professional to customize based on your mantel choice and budget\*.

Installation Type: Mark with an X w	here applicable	Fuel Type: Wood	Gas	Pellet		
New Construction Existing	Addition	Electric	Other_			
Room:	Level of house:	If Manufactured:				
Fireplace Type: Mark with an X where applicable		Manufacturer Name:				
Masonry Insert Manuf	Model:					







#### Fireplace Installed Flush With The Wall

- A \_\_\_\_\_Firebox opening width
  B \_\_\_\_\_Firebox opening height
  C \_\_\_\_\_Firebox opening to outlet
- D \_\_\_\_\_Firebox opening to window
  E \_\_\_\_\_Firebox opening to wall switch
- F \_\_\_\_\_Firebox opening to inside/outside corner
- G\_\_\_\_\_Are the walls square and level?

If your installation will have a hearth, list dimension under H, I & J below under "Fireplace With Existing Fireplace Surround Materials".

#### Fireplace With Existing Fireplace Surround Material

- A \_\_\_\_\_Firebox opening width
- B \_\_\_\_\_Firebox opening height
- C \_\_\_\_\_Firebox opening to outlet

  D \_\_\_\_\_Firebox opening to window
- E \_\_\_\_\_Firebox opening to wall switch
- F \_\_\_\_\_Firebox opening to inside/outside corner
- G\_\_\_\_Surround material outside width
- H \_\_\_\_\_ Hearth width
- \_\_\_\_Hearth depth
- J \_\_\_\_\_Hearth height
- K \_\_\_\_\_Surround material leg width
- L \_\_\_\_\_Surround material thickness
- M\_\_\_\_\_ Are the walls square and level?
  Existing surround material Used \_\_\_\_\_

#### Corner Fireplace

- A \_\_\_\_\_Firebox opening width
- B \_\_\_\_\_Firebox opening height
- C \_\_\_\_\_Firebox opening to outlet
- D \_\_\_\_\_Firebox opening to window
- E \_\_\_\_\_Firebox opening to wall switch
- F \_\_\_\_Leg width
- G\_\_\_\_Leg depth
- H \_\_\_\_\_Top depth
- Shelf depth (along wall)
- J \_\_\_\_Outside height
- K \_\_\_\_\_Are the walls square and level?

If your fireplace installation will have a hearth, list dimensions on H, I & J above under "Fireplace With Existing Fireplace Surround Materials"

\*Refer to your local building codes for minimum clearances to combustibles for each fuel type. FSF-1011U-0210

### finishing

#### **7** Finishing

#### A. Finishing Material

Refer to Sections 1.B. and Sections 1.C. for combustible/ non-combustible materials. Refer to Figure 7.1 for noncombustible zone.

WARNING! Risk of Fire! You must maintain clearances.

- Do NOT cover metal fireplace front with combustible materials
- Install combustible materials only to specified clearances on top front and side edges.
- Complete framing and apply facing material (drywall) over framing.
- A bead of 300-deg F minimum non-combustible sealant must be used to close off any gaps at the top and sides between the fireplace and facing to prevent cold air leaks.
- Large gaps can be bridged with fiberglass rope gasket.
- Only non-combustible materials may be used to cover the metal fireplace front.

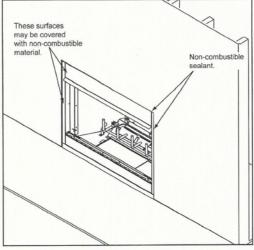
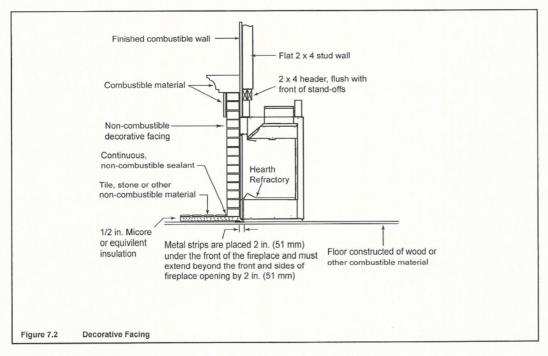


Figure 7.1 Non-combustible Facing



#### Hearth extensions

#### B. Hearth Extension, Building and Fin-

WARNING! Risk of Fire! High temperatures, sparks, embers or other burning material falling from the fireplace may ignite flooring or concealed combustible surfaces.

- Protective metal hearth strips MUST be installed.
- Hearth extensions MUST be installed exactly as specified.

A hearth extension must be installed with all fireplaces to protect the combustible floor in front of the fireplace from both radiant heat and sparks.

- You MUST use a hearth extension with this fireplace.
- · Refer to Figure 7.3 for minimum dimensions.
- This fireplace has been tested and approved for use with a hearth extension insulated to a minimum R value of 1.03.
- The hearth extension material MUST be covered with tile, stone or other non-combustible material.
- Manufactured hearth materials will usually have a
  published R value (resistance to heat) or k value
  (conductivity of heat). Refer to the formula in Table
  7.1 to convert a k value to an R value,
- Refer to Table 7.2 for hearth extension insulation alternatives.

#### WARNING! Risk of Fire!

Hearth & Home Technologies is not responsible for discoloration, cracking or other material failures of finishing materials due to heat exposure or smoke.

· Choose finishing materials carefully.

#### WARNING! Risk of Fire!

- Maintain clearances.
- Use only non-combustible material below standoffs, material such as cement board is acceptable.
- Framing or finishing material used on the front of the fireplace closer than the minimums listed, must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).

#### WARNING! Risk of Fire!

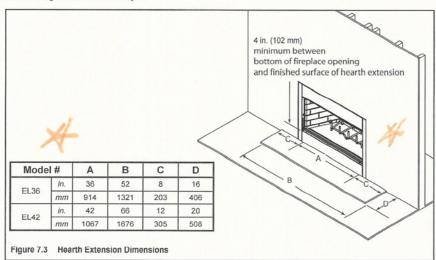
Hearth extensions are to be installed only as illustrated to prevent high temperatures from occurring on concealed combustible materials.

#### Table 7.1

#### R = 1/k x inches of thickness

#### Table 7.2

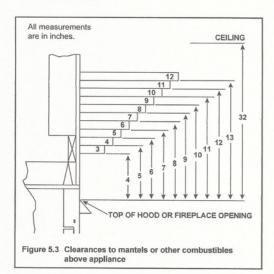
Hearth Extension Insulation Alternatives, R Value = 1.03							
Material	k per inch thick	r per inch thick	Minimum thickness required				
Hearth & Home HX3, HX4	0.49	2.06	1/2 in.				
USG Micore 300™	0.49	2.06	1/2 in.				
USG Durock™ Cement Board	1.92	0.52	2 in.				
Cement Mortar	5.0	0.20	5 1/8 in.				
Common Brick	5.0	0.20	5 1/8 in.				
Ceramic Tile	12.50	0.08	12 1/4 in.				
Armstrong™ Privacy Guard Plus	0.46	2.18	1/2 in.				
Marble	14.3-20.0	0.07-0.05	14 5/8 in 20 3/8 in.				

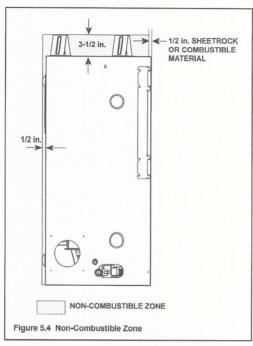


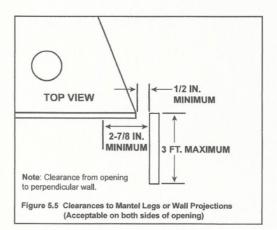
### Mantel shelf specs

#### D. Mantel and Wall Projections

WARNING! Risk of Fire! Comply with all minimum clearances to combustibles as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc).







TOP VIEW

TOP VIEW

3 IN.
MINIMUM

5-3/8 IN.
MINIMUM

UNLIMITED

View opening to perpendicular wall.

Figure 5.6 Wall Projection (Acceptable on one side of opening)

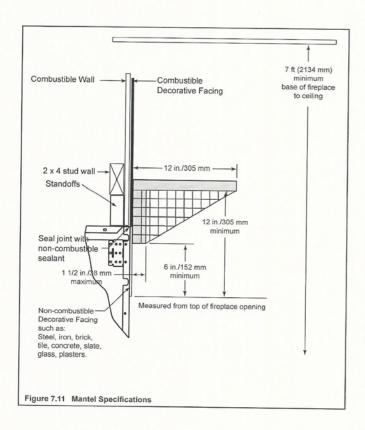
### Mantel shelf specs 2

#### D. Mantel and Wall Projections

A combustible mantel may be positioned no lower than 40 1/2 in. (1029 mm) from the base of the fireplace.

The combustible mantel may have a maximum depth of 12 in. (305 mm). Combustible trim pieces that project no more than 1 1/2 in. (38 mm) from the face of the fireplace can be placed no closer than 6 in. (152 mm) from the top or side of the decorative front. Combustible trim must not cover:

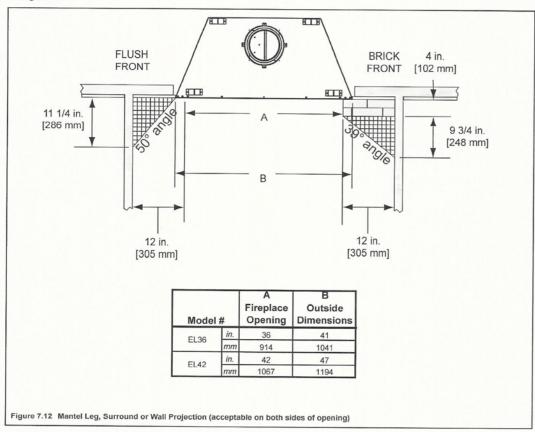
- · the metal surfaces of the fireplace
- where the non-combustible board is placed over the metal surfaces
- the space between the metal face of the fireplace and framing members



### Mantel leg specs

#### E. Sidewalls/Surrounds

- Locate adjacent combustible sidewalls a minimum of 12 in. (305 mm) from fireplace opening.
- Mantle leg, surround, stub wall, whether combustible or non-combustible, may be constructed as shown in Figure 7.12.



### Cut sheet

F/P	HEARTH	HEADER	LEGS	RISER	MANTEL
					SIZE
					60-47-38-1.5
					60-47-38-1.5
					60-47-38-1.5
					60-47-38-1.5
					66-53-38-1.5
					66-53-38-1.5
	_				66-53-38-1.5
					60-47-38-1.5
					60-47-42-1.5
					66-53-38-1.5
					66-53-42-1.5
					66-53-38-1.5
					60-47-42-1.5
					7253421.5/6653421.5
					SPECIAL
					SPECIAL
					SPECIAL
					60-47-38-1.5
					7253381.5/6653381.5
					72-57-42-1.5
					60-47-38-1.5
					7253381.5/6653381.5
					60-47-42-1.5
				N/A	60-47-42-1.5
NDV4842	66	55	31 5/8	N/A	66-53-42-1.5
GDST4336I	60	49	33 5/8	N/A	60-47-42-1.5
GDST5244I	66	57	36 5/8	44 X 5.5	SPECIAL
RBV4236IT	60	49	29 1/8	36 X 6.5	60-47-38-1.5
RBV4842IT	66	55	29 5/8	42 X 6	60-47-38-1.5
6000	60	49	33 3/8	N/A	60-47-42-1.5
8000	66	55	36 1/8	N/A	66-53-42-1.5
SL550	60	48	29 5/8	N/A	60-47-38-1.5
SL750	60	49	33 3/8	N/A	60-47-42-1.5
SL950	66	55	37 3/8 X 6 (2)	N/A	66-53-42-1.5
BE36C	60	49	29 5/8	N/A	60-47-38-1.5
ST-TRC	60	49	31 3/8	N/A	60-47-38-1.5
ST42TVFL	60	49	31 5/8	N/A	60-47-38-1.5
RHW41	60	49	26 5/8	36 X 5	60-47-38-1.5
RHW47	66	55	26 5/8	42 X 5	66-53-38-1.5
EM485T	66	55	35 3/8	N/A	66-53-42-1.5
SFE35	60	49	29 5/8	N/A	60-47-38-1.5
36EBU	60	49	29 5/8	36 X 3.5	60-47-38-1.5
42EBU	66	54.5	29 5/8		66-53-38-1.5
32EXL	60	48	28 1/8	N/A	SPECIAL
ST-HVB-IPI	60	49	32 3/8		60-47-42-1.5
MONTANA42	66	55	28 5/8	42 X 5	66-53-38-1.5
DAKOTA42B	66	55	31 1/8	42 X 5	66-53-38-1.5
	GDST5244I RBV4236IT RBV4842IT 6000 8000 SL550 SL750 SL950 BE36C ST-TRC ST42TVFL RHW41 RHW47 EM485T SFE35 36EBU 42EBU 32EXL ST-HVB-IPI	MODEL   20 X ?	MODEL         20 X ?         12" OR 8"           BC36R         60         49           E36         60         49           EC36         60         49           EL36         60         49           EL36         60         49           E42         66         55           EC42         66         55           EL42         66         55           A36R         60         49           A36C         60         49           A42R         66         55           A42C         66         55           ODY42         66         55           I60CT/H         60         49           I80CT/H         72 / 66         55           I100CT/H         N/A         N/A           MIR42         72         57           BIR50         N/A         N/A           T4200         72 / 66         55           T4800         72         61           ST36D         60         49           NDV4236         60         49           NDV4842         66         55           GDST5244I         66 <td>MODEL         20 X ?         12" OR 8"         6.5" OR 8"           BC36R         60         49         26 5/8           E36         60         49         26 5/8           EG36         60         49         29 3/8           EL36         60         49         27 3/8           EL42         66         55         26 5/8           EC42         66         55         29 3/8           EL42         66         55         29 3/8           EL42         66         55         29 3/8           EL42         66         55         29 3/8           A36R         60         49         29 7/8           A36C         60         49         34 5/8           A42R         66         55         29 7/8           A42C         66         55         29 5/8           I60CT/H         60         49         34 7/8           I80CT/H         72 / 66         55         34 7/8           I100CT/H         N/A         N/A         N/A           T4200         72 / 66         55         29 1/2           T4800         72 / 66         55         29 1/2      <tr< td=""><td>MODEL         20 X ?         12" OR 8"         6.5" OR 8"         SIZE           BC36R         60         49         26 5/8         36 X 4.5           E36         60         49         26 5/8         36 X 5           EC36         60         49         29 3/8         N/A           EL36         60         49         27 3/8         36 X 6           E42         66         55         26 5/8         42 X 5           EC42         66         55         26 5/8         42 X 5           EC42         66         55         29 3/8         N/A           EL42         66         55         29 3/8         N/A           A36R         60         49         29 7/8         36 X 5.5           A36C         60         49         34 5/8         N/A           A42R         66         55         29 7/8         42 X 5.5           A42C         66         55         29 7/8         42 X 5.5           A42C         66         55         29 5/8         42 X 6           I60CT/H         60         49         34 7/8         36 X 6.125           I80CT/H         72 / 66         55         34</td></tr<></td>	MODEL         20 X ?         12" OR 8"         6.5" OR 8"           BC36R         60         49         26 5/8           E36         60         49         26 5/8           EG36         60         49         29 3/8           EL36         60         49         27 3/8           EL42         66         55         26 5/8           EC42         66         55         29 3/8           EL42         66         55         29 3/8           EL42         66         55         29 3/8           EL42         66         55         29 3/8           A36R         60         49         29 7/8           A36C         60         49         34 5/8           A42R         66         55         29 7/8           A42C         66         55         29 5/8           I60CT/H         60         49         34 7/8           I80CT/H         72 / 66         55         34 7/8           I100CT/H         N/A         N/A         N/A           T4200         72 / 66         55         29 1/2           T4800         72 / 66         55         29 1/2 <tr< td=""><td>MODEL         20 X ?         12" OR 8"         6.5" OR 8"         SIZE           BC36R         60         49         26 5/8         36 X 4.5           E36         60         49         26 5/8         36 X 5           EC36         60         49         29 3/8         N/A           EL36         60         49         27 3/8         36 X 6           E42         66         55         26 5/8         42 X 5           EC42         66         55         26 5/8         42 X 5           EC42         66         55         29 3/8         N/A           EL42         66         55         29 3/8         N/A           A36R         60         49         29 7/8         36 X 5.5           A36C         60         49         34 5/8         N/A           A42R         66         55         29 7/8         42 X 5.5           A42C         66         55         29 7/8         42 X 5.5           A42C         66         55         29 5/8         42 X 6           I60CT/H         60         49         34 7/8         36 X 6.125           I80CT/H         72 / 66         55         34</td></tr<>	MODEL         20 X ? 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THAT MUST COME FROM A REPLACEMENT HEARTH (RH??).

NOTICE: ADD 1/4" TO THE HEIGHT OF LEGS AND RISERS FOR SLATE DIMENSIONS.

NOTICE: WHEN ENTERING A WRAP, YOU MUST ENTER A "PLATFORM" AND DIMENSIONS ALONG WITH A REPLACEMENT HEARTH ("RH??") AND DIMENSIONS. ALL ARE LINE ITEMS.

NOTICE: REFER TO STOCK SIZES SHEET FOR MARBLE, GRANITE, AND SLATE.

NOTICE: ALL HEAT-N-GLO GAS UNITS ARE SET ON PRESSURE TREATED 1 X 4 MATERIAL.

NOTICE: YOU MUST SPECIFY 8" LEGS.

Standard Stocked Sizes 36" Fireplace Kit 42" Fireplace Kit 42 Fireplace Kit (72 & 66) X 20 56 X 12 36 X 6.5 42 X 6.5 60 X 20 49 X 12 36 X 6.5 42 X 6.5 Header Legs Riser

### Surround fabrication



### Surround fabrication



## Loaded van



## Fireplace before



### Floor level



### Install micore



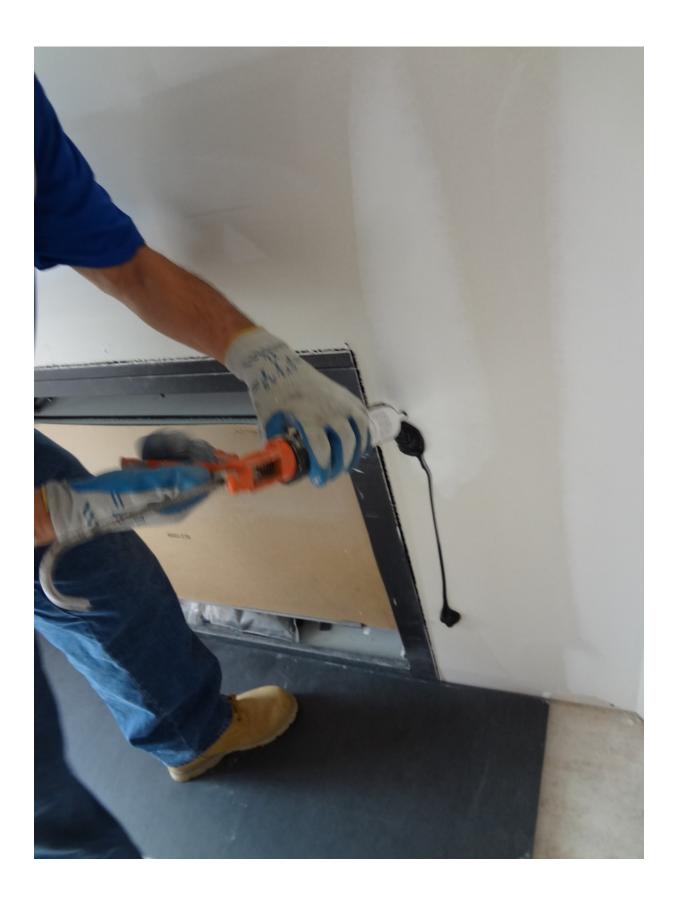
### Center micore



## Install hearth



## Apply adhesive



## Adhesive applied



# Install leg 1



# Leg 1 installed



# Install leg 2



### Install header



### Secure header



### Header secured



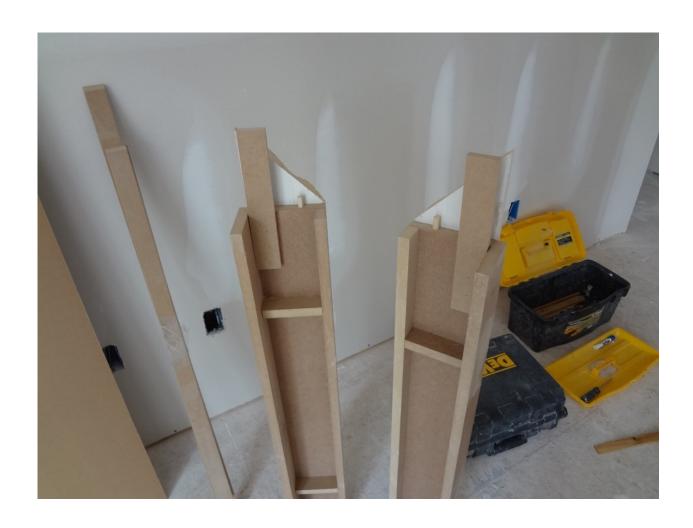
## Caulk edges



## Top of mantel



# Back of mantel legs



## Front of mantel legs



### Dowel holes



## Breast assembly



## Installing mantel legs



## Installing mantel legs



## Mantel legs installed



### Front of mantel



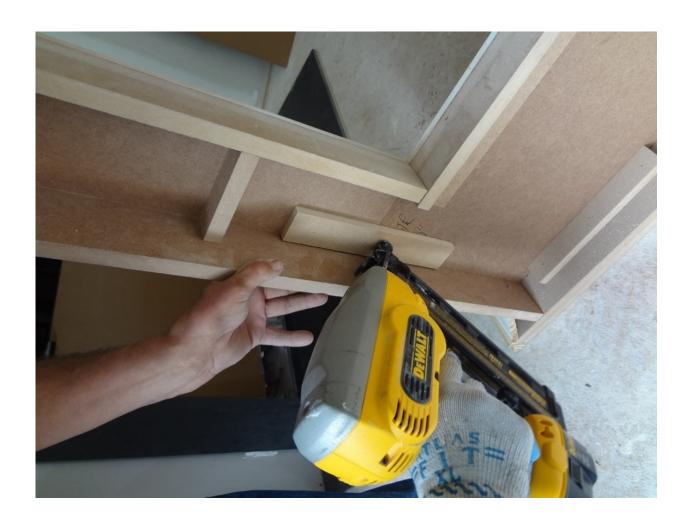
# Installing leg 2



# Securing legs



## Securing back of legs



# Leg view from the side



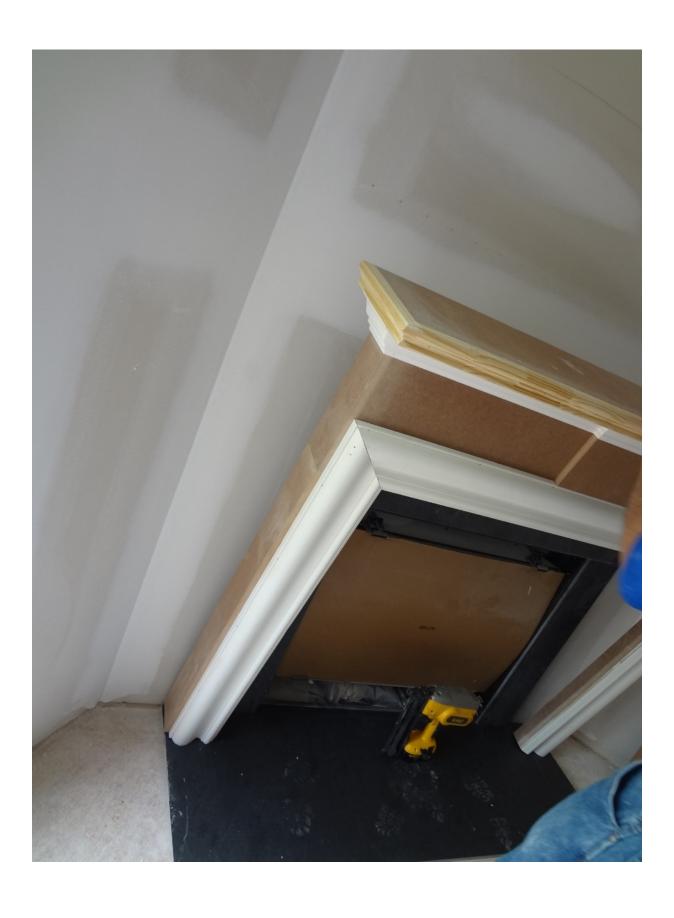
## Applying adhesive



## Applying adhesive



# Raising mantel



### Legs flush with hearth



# Securing mantel



# Securing mantel



### Mantel void



# Installing scribe



## Installing top scribe



### Mantel installed



### Caulk micore



### Caulk behind surround



### Sand mantel



### Install hearth protector

