

16549



Call Us First!
DO NOT RETURN TO STORE.

For immediate help with assembly or product information

call our toll free number:

1-800-844-9273

or email:

customerservice@backyardproductsllc.com

Our staff is ready to provide assistance

April through October M-F 8:00 AM to 4:30 PM EST

Saturday 8:30 AM to 4:30 PM EST

November through March M - F 8:00 AM to 5:00 PM EST

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16549

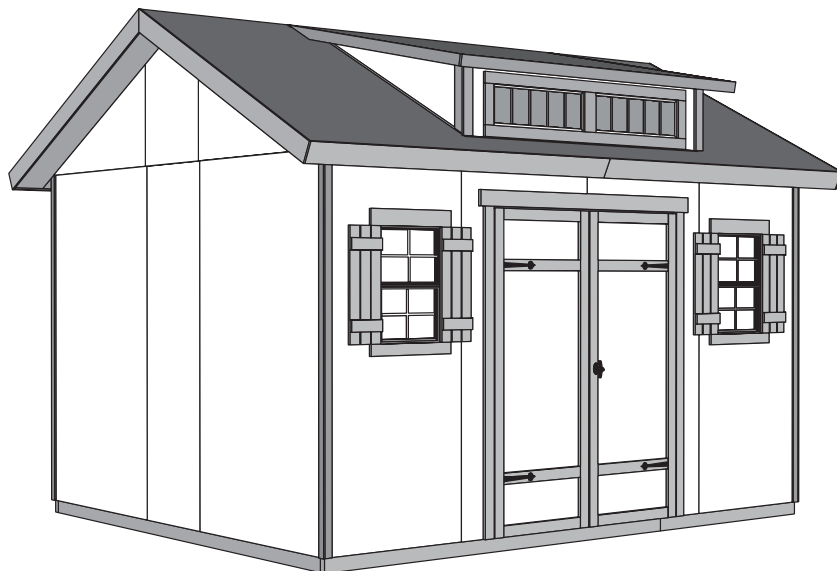
06/05/2015

A Backyard Products Company

STONECROFT GABLE 10' x 12' (305 x 366 cm)

ACTUAL FLOOR SIZE IS 120 x 144" (304,8 x 365,8 cm)

KEEP THIS MANUAL FOR FUTURE REFERENCE



⚠ IMPORTANT! ⚠

READ INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING ASSEMBLY.

BEFORE YOU BEGIN

- **BUILDING RESTRICTIONS AND APPROVALS**

Be sure to check with local building department and homeowners association for specific restrictions and/ or requirements before building

- **ENGINEERED DRAWINGS**

Contact our Customer Service Team if engineered drawings are needed to pull local permits.

- **SURFACE PREPARATION**

To ensure proper assembly you must build your shed on a level surface. Recommended methods and materials to level your shed are listed on page 9.

- **CHECK ALL PARTS**

Inventory all parts listed on pages 4 - 8. Contact our Customer Service Team if any parts are missing or damaged.

- **ADDITIONAL MATERIALS**

You will need additional materials to complete your shed. See page 3 for required and optional materials and quantities.



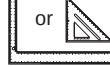
- CUSTOMER SERVICE -

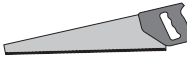


Call: 1-800-844-9273 email: customerservice@backyardproductsllc.com

TOOLS

Required

- ☐ Phillips Screwdriver 
- ☐ Drill / Driver
 - ☐ 1/8" Drill Bit
 - ☐ 1/4" Drill Bit
 - ☐ 5/16" Drill Bit
 - ☐ 1/2" Drill Bit
 - ☐ #2 Phillips Drive Bit
- ☐ Hammer 
- ☐ Level 
- ☐ Pencil 
- ☐ Tape Measure 
- ☐ Square 

- ☐ Utility Knife 
- ☐ Shingle Blades 
- ☐ Caulk Gun 
- ☐ Paint Tools 
- ☐ Safety Glasses 
- ☐ Hand Saw 
- ☐ Ladder 

Optional

- ☐ Tool Belt/ Nail Pouch 
- ☐ Tin Snips (for drip edge) 
- ☐ Chalk Line 
- ☐ Nail Gun
 - gun nails
- ☐ Gloves 

Safety! Always use approved safety glasses during assembly.

HELPFUL REMINDER SYMBOLS

Look for these symbols for helpful reminders throughout this manual.



= Assistance Required; two or more people.



= Ensure squareness.



= Important required step or operation.



= Helpful assembly hint.



= Mark part with pencil.



= Beginning of steps for assembly or installation.



= You have finished the assembly or installation.

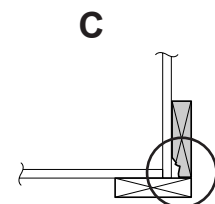
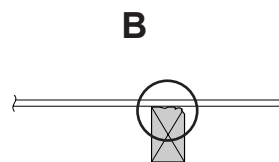
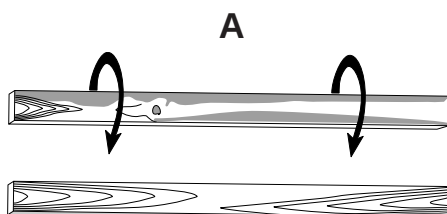


= Level

ORIENT LUMBER AND TRIM FOR BEST APPEARANCE

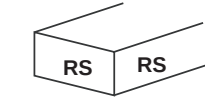
Framing lumber is graded for structural strength and not appearance. Exterior trim is graded for one good side.

Always install the material leaving the best edge and best surface visible. Please remember that these blemishes in no way negatively affect the strength or integrity of our product. (See Fig. A, B, C.)



PARTS IDENTIFICATION AND SIZES

Part identification letters are stamped on some parts.



Check these locations for part stamp.

Treated lumber is stamped:

TREATED

WOOD SIZE CONVERSION CHART	
Nominal Board Size	Actual Size
2" x 4".....	1-1/2" x 3-1/2" (3,8 x 8,9 cm)
1" x 4".....	3/4" x 3-1/2" (1,9 x 8,9 cm)
2" x 3".....	1-1/2" x 2-1/2" (3,8 x 6,3 cm)
1" x 3".....	3/4" x 2-1/2" (3,8 x 6,3 cm)

PARTS LIST

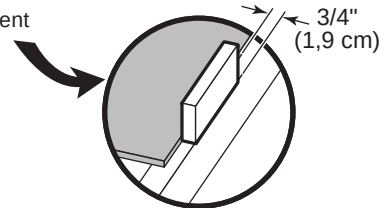


INVENTORY YOUR PARTS before you begin.

We suggest sorting parts by the category they are listed in.

WALLS

- ☐ x1 **GAA** 1 x 3 x 5" (2,5 x 7,6 x 12,7 cm) Gauge Block for 3/4" (1,9 cm) measurement
- ☐ x3 **COA** 2 x 4 x 8" (5,1 x 10,2 x 20,3 cm)
- ☐ x2 **KIA** 2 x 4 x 14" (5,1 x 10,2 x 35,6 cm)
- ☐ x4 **KJA** 2 x 4 x 21-3/8" (5,1 x 10,2 x 54,3 cm)
- ☐ x4 **RL** 2 x 4 x 24" (5,1 x 10,2 x 61 cm)
- ☐ x2 **KHA** 2 x 4 x 24-1/2" (5,1 x 10,2 x 62,2 cm)
- ☐ x4 **STL** 2 x 4 x 44-1/2" (5,1 x 10,2 x 113 cm)
- ☐ x3 **SP** 2 x 4 x 48" (5,1 x 10,2 x 121,9 cm)
- ☐ x1 **Filler** 7/16 x 3-1/2 x 59" (1,1 x 8,9 x 149,9 cm)
- ☐ x2 **KMA** 2 x 4 x 59" (5,1 x 10,3 x 149,9 cm)
- ☐ x6 **YFA** 2 x 4 x 68-1/2" (5,1 x 10,2 x 174 cm)
- ☐ x27 **TK** 2 x 4 x 80" (5,1 x 10,2 x 203,2 cm)
- ☐ x3 **TP** 2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)



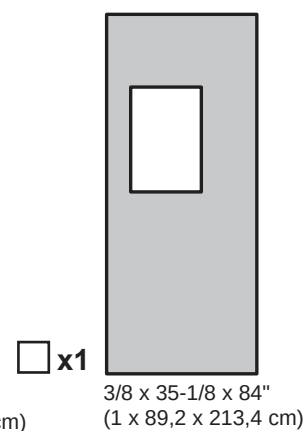
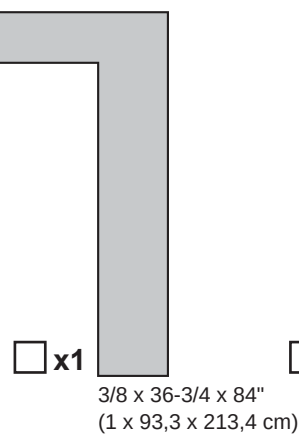
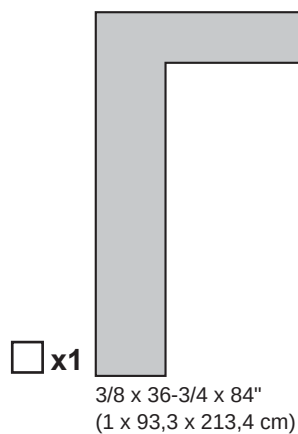
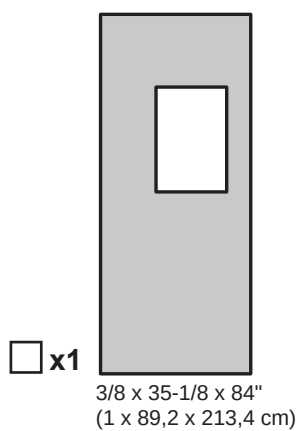
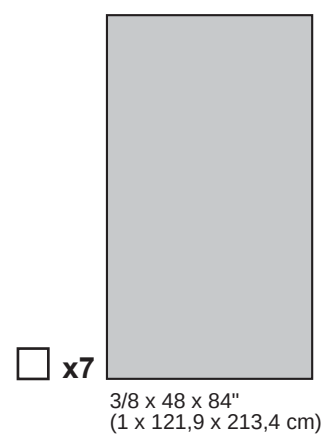
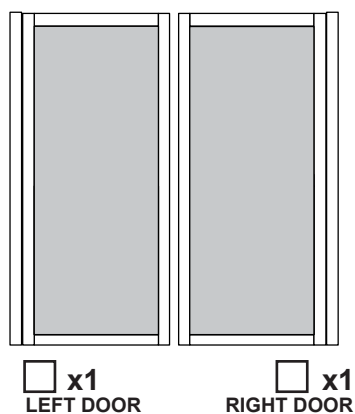
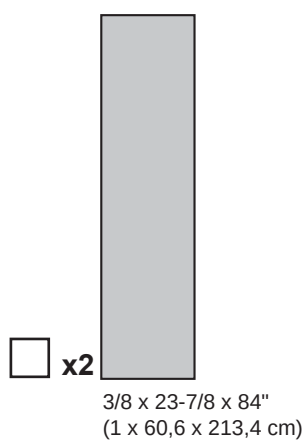
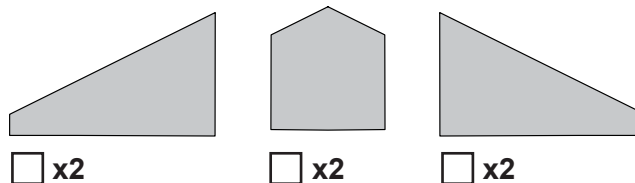
RAFTERS

- ☐ x6 6 x 24" (15,2 x 61 cm) **OSB OR WOOD GRAIN** ⚠
- ☐ x8 4-13/16 x 24" (12,2 x 61 cm) **OSB OR WOOD GRAIN** ⚠
- ☐ x4 **KDA** 2 x 4 x 2-7/8" (5,1 x 10,2 x 7,3 cm)
- ☐ x16 **CLA** 2 x 4 x 4-7/8" (5,1 x 10,2 x 12,4 cm)
- ☐ x4 **PVA** 2 x 4 x 5-7/8" (5,1 x 10,2 x 14,9 cm)
- ☐ x4 **KFA** 2 x 4 x 14-5/16" (5,1 x 10,2 x 36,4 cm)
- ☐ x4 **ST** 2 x 4 x 44" (5,1 x 10,2 x 111,8 cm)
- ☐ x5 **KGA** 2 x 4 x 61-13/16" (5,1 x 10,2 x 157 cm)
- ☐ x8 **ECA** 2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)
- ☐ x13 **ECN** 2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)

DOOR

- ☐ x4 **GI** 19/32 x 3 x 23" (1,5 x 7,6 x 58,4 cm)
- ☐ x2 **OO** 1-1/2 x 2-1/2 x 69" (3,8 x 6,3 x 175,3 cm)

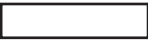
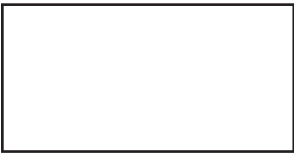
WALL PANELS / DOOR PARTS LIST



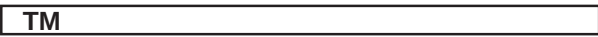
ROOF PANELS

Roof panels are 7/16" (1,1 cm) thick.

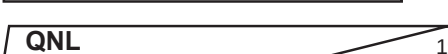
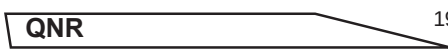
NOTE: Panel parts are not stamped.

☐ x1		☐ x1		☐ x2		☐ x2	
	7/16 x 7-11/16 x 24" (1,1 x 19,5 x 61 cm)		7/16 x 7-11/16 x 48" (1,1 x 19,5 x 121,9 cm)		7/16 x 27-1/4 x 32-5/8" (1,1 x 69,2 x 82,9 cm)		7/16 x 27-1/4 x 44-5/8" (1,1 x 69,2 x 113,3 cm)
☐ x2		☐ x2		☐ x2		☐ x1	
	7/16 x 27-1/4 x 48" (1,1 x 69,2 x 121,9 cm)		7/16 x 32-5/8 x 48" (1,1 x 82,9 x 121,9 cm)		7/16 x 44-5/8 x 48" (1,1 x 113,3 x 121,9 cm)		7/16 x 48 x 96" (1,1 x 121,9 x 243,8 cm)

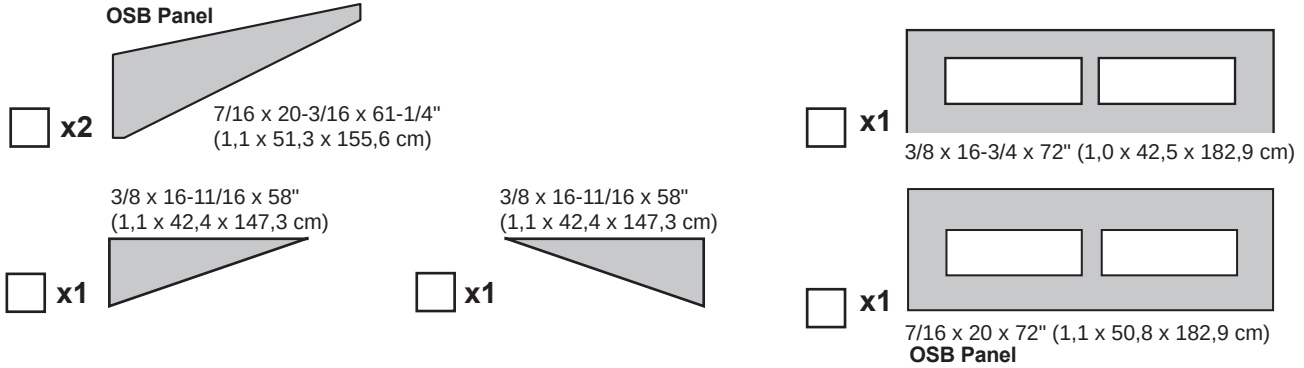
TRIM - SOFFIT - FASCIA

☐ x1		19/32 x 3-1/2 x 64" (1,5 x 8,9 x 162,6 cm)
☐ x2		2 x 4 x 72" (5,1 x 10,2 x 182,9 cm)
☐ x4		3/8 x 7-7/8 x 73-5/16" (1 x 20 x 186,2 cm)
☐ x4		3/8 x 5-7/8 x 72-3/4" (1 x 14,9 x 184,8 cm)
☐ x2		3/8 x 4-3/4 x 75-7/8" (1 x 12,1 x 197,2 cm)
☐ x2		3/8 x 4-3/4 x 75-7/8" (1 x 12,1 x 197,2 cm)
☐ x4		3/8 x 4-3/4 x 80-5/8" (1 x 12,1 x 204,8 cm)
☐ x4		3/8 x 1-3/4 x 81-7/8" (1,0 x 4,4 x 208 cm)
☐ x4		3/8 x 1-3/4 x 82-1/2" (1,0 x 4,4 x 209,6 cm)

DORMER TRIM and FRAMING

☐ x2		19/32 x 2-1/2 x 9" (1,5 x 6,3 x 22,9 cm)
☐ x1		19/32 x 3-1/2 x 9" (1,5 x 8,9 x 22,9 cm)
☐ x2		19/32 x 2-1/2 x 15-1/8" (1,5 x 6,3 x 38,4 cm)
☐ x1		19/32 x 2-1/2 x 13-11/16" (1,5 x 6,3 x 34,8 cm)
☐ x1		19/32 x 2-1/2 x 13-11/16" (1,5 x 6,3 x 34,8 cm)
☐ x2		2 x 4 x 52-1/2" (5,1 x 10,2 x 133,3 cm)
☐ x1		19/32 x 3-1/2 x 58-5/8" (1,5 x 8,9 x 148,9 cm)
☐ x1		19/32 x 3-1/2 x 58-5/8" (1,5 x 8,9 x 148,9 cm)
☐ x1		19/32 x 2-1/2 x 62" (1,5 x 6,3 x 157,5 cm)
☐ x1		19/32 x 2-1/2 x 64-1/2" (1,5 x 6,3 x 163,8 cm)
☐ x1		19/32 x 2-1/2 x 64-1/2" (1,5 x 6,3 x 163,8 cm)
☐ x1		19/32 x 2-1/2 x 68-7/8" (1,5 x 6,3 x 174,9 cm)
☐ x2		2 x 4 x 71-1/8" (5,1 x 10,2 x 180,7 cm)
☐ x1		2 x 6 x 81" (5,1 x 15,2 x 205,7 cm)
☐ x1		19/32 x 2-1/2 x 82-3/16" (1,5 x 6,3 x 208,8 cm)

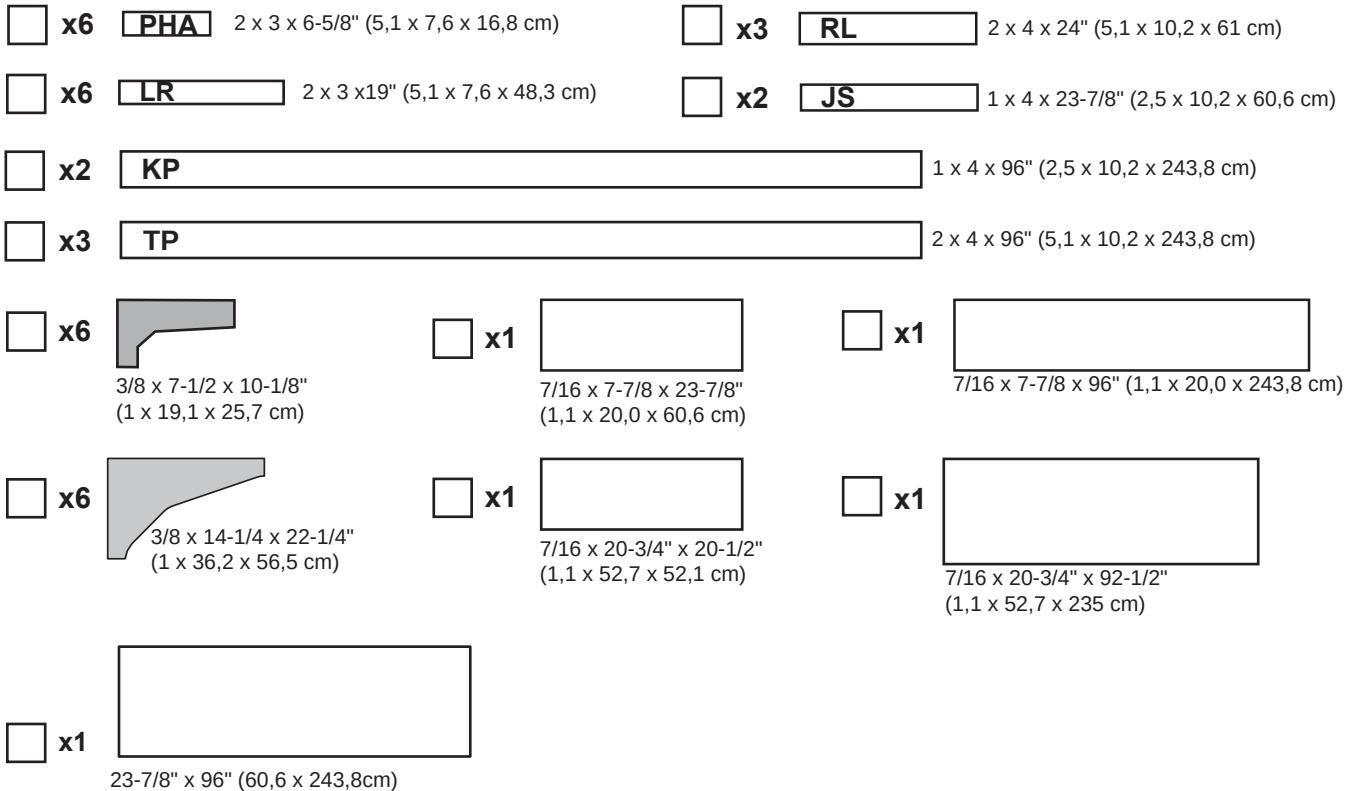
DORMER WALL PANELS



DORMER ROOF PANELS



SHELF - WORKBENCH - LOFT

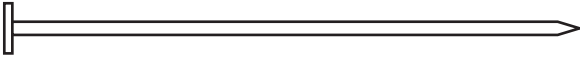
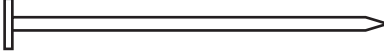


WINDOW TRIM & SHUTTERS

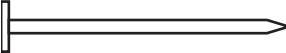


FASTENERS & HARDWARE

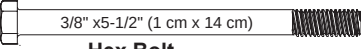
NAIL BOXES

- ☐ **x4 BOXES**  3" (7,6 cm)
- ☐ **x8 BOXES**  2" (5,1 cm)

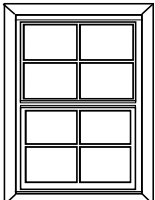
FASTENER/HARDWARE BAG

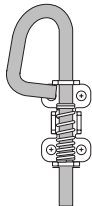
- ☐ **x130**  1-1/2" (3,8 cm)
- ☐ **x380**  2" (5,1 cm)
- ☐ **x165**  3" (7,6 cm)
- ☐ **x32**  2" (5,0 cm)
- ☐ **x105**  1-5/8" (4,1 cm)
- ☐ **x145**  3/4" (1,9 cm)
- ☐ **x35**  1" (2,5 cm)

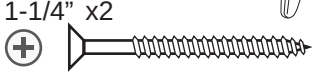
(NOT ACTUAL SIZE)

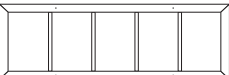
- ☐ **x2**  3/8" x 5-1/2" (1 cm x 14 cm)
Hex Bolt
- ☐ **x4**  3/8" (1 cm)
Flat Washer
- ☐ **x2**  3/8" (1 cm)
Lock Nut

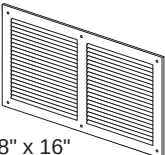
VENT/ DOOR HARDWARE/ WINDOW

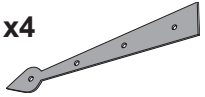
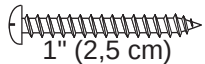
- ☐ **x2**  16-1/4" x 24"
(41,3 x 56,5 cm)

- ☐ **x2** 

- Handle (locking) with Screws**
-  1-1/4" x2
- ☐ **x1** 

- ☐ **x2**  9" x 27" (22,8 x 68,5 cm)

- ☐ **x2**  8" x 16"
(20,3 x 35,6 cm)
- ☐ **x12**  1/2" (1,2 cm)

- ☐ **x4** 
- ☐ **x16**  1" (2,5 cm)

- ☐ **x3** **Flashing**  4" x 32" (10,2 x 81,3 cm)

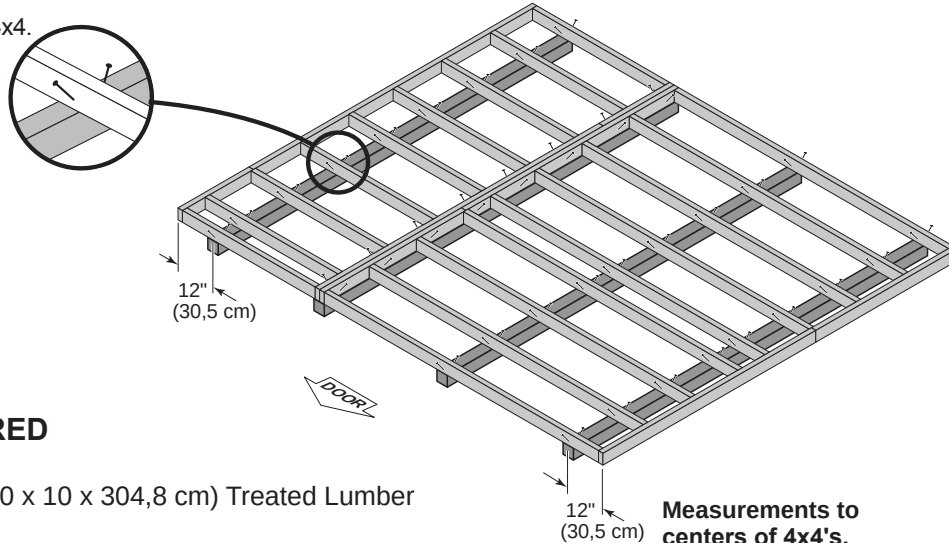
- ☐ **x26** **Flashing**  5" x 7" (12,7 x 17,8 cm)

FLOOR LEVELING OPTIONS

There are multiple ways to level your floor frame. Our recommended leveling method is shown below.
Leveling materials are not included in this kit.

PREFERRED METHOD - 4x4 TREATED RUNNERS

- 3" Screws angled into 4x4.
- (2) at each point frame and 4x4 touch.



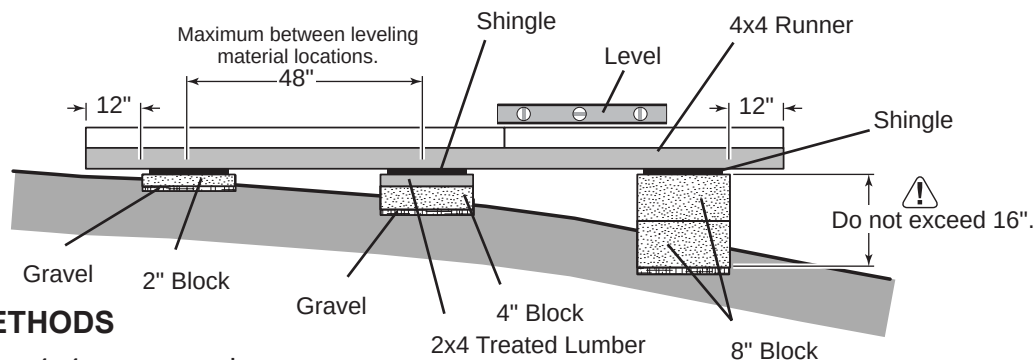
MATERIAL REQUIRED

☐ **x3** 4" x 4" x 10' (10 x 10 x 304,8 cm) Treated Lumber

☐ **Fasteners for Frame to 4"x 4".**
(3" Screws shown as one option.) Minimum (60) 3" screws / exterior grade.

 **Use only wood treated for ground contact and fasteners approved for use with treated wood.**

 **Always support frame seams.**



LEVELING METHODS

- Level under 4x4 runners only.
- Locate leveling material 12" from ends of runners and no more than 48" apart.
- Asphalt shingles should be used between 4x4 runners and blocks or treated lumber. Never use shingles in direct contact with ground.
- For best results and aiding in water drainage use gravel under each concrete block.

LEVELING MATERIALS

- ☐ Gravel
- ☐ Solid Masonry Blocks in 1", 2", 4" or 8" thickness
- ☐ 2x4 Treated Lumber
- ☐ Asphalt Shingles

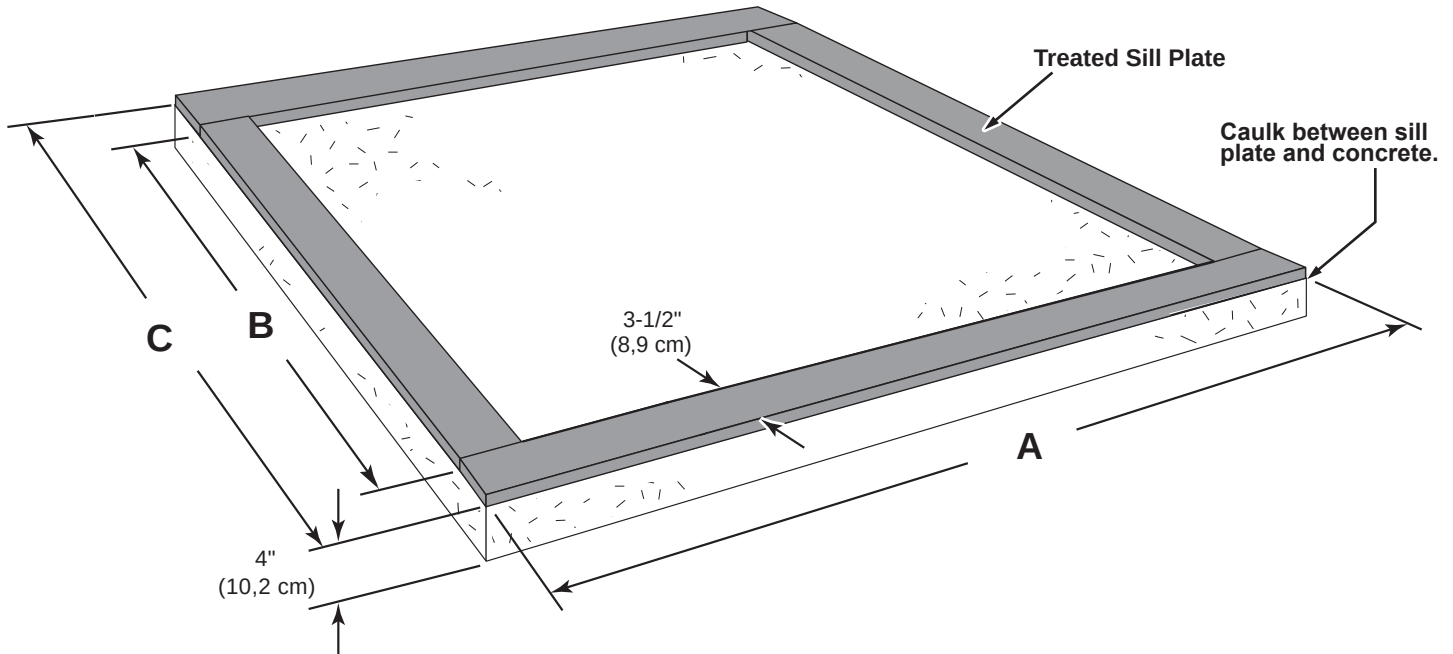
 **Leveling higher than 16" not recommended.**

CONCRETE

- If you are building your shed on a concrete foundation see the following page.

CONCRETE FOUNDATION

Your kit contains all materials to construct a wooden floor. If you choose to install your kit on a concrete slab refer to the diagram below.



Building Size	Actual Size	A	B	C
10'x 12' (243,8 x 365,8 cm)	120" x 144" (304,8 x 365,8 cm)	120" (304,8 cm)	137" (348 cm)	144" (365,8 cm)

Requires:

- ☐ **x2** 2" x 4" x 11' (5,1 x 10,2 x 424 cm)  **MUST be treated lumber.**
- ☐ **x2** 2" x 4" x 10' (5,1 x 10,2 x 304,8 cm)  **MUST be treated lumber.**
- ☐ **x1** Caulk 

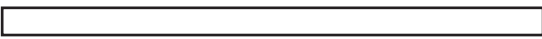
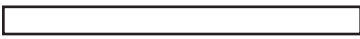
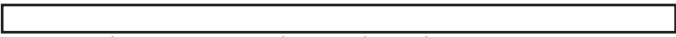
 Allow new concrete slabs to cure for at least seven (7) days.

- A treated 2 x 4" (5,1 x 10,2 cm) sill plate is required when installing your shed on concrete. **Hint: Use treated lumber in your kit or purchase full length treated lumber.**
- Use a high quality exterior grade caulk beneath all sill plates.
- Fasten 2 x 4" (5,1 x 10,2 cm) sill plates to slab using approved concrete anchors (**fasteners not included**).
- Check local code for concrete foundation requirements.

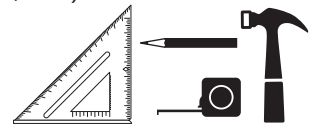
NOTES

10' x 8' FLOOR FRAME

PARTS REQUIRED:

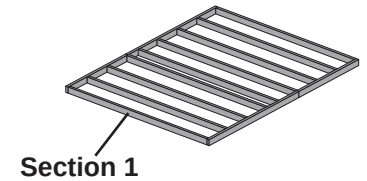
x2		x2	
	2 x 4 x 72" (5 x 10 x 183 cm) Treated Wood		2 x 4 x 48" (5 x 10 x 122 cm) Treated Wood
x9			
	2 x 4 x 93" (5 x 10 x 236,2 cm) Treated Wood		

Look for
TREATED
Stamp

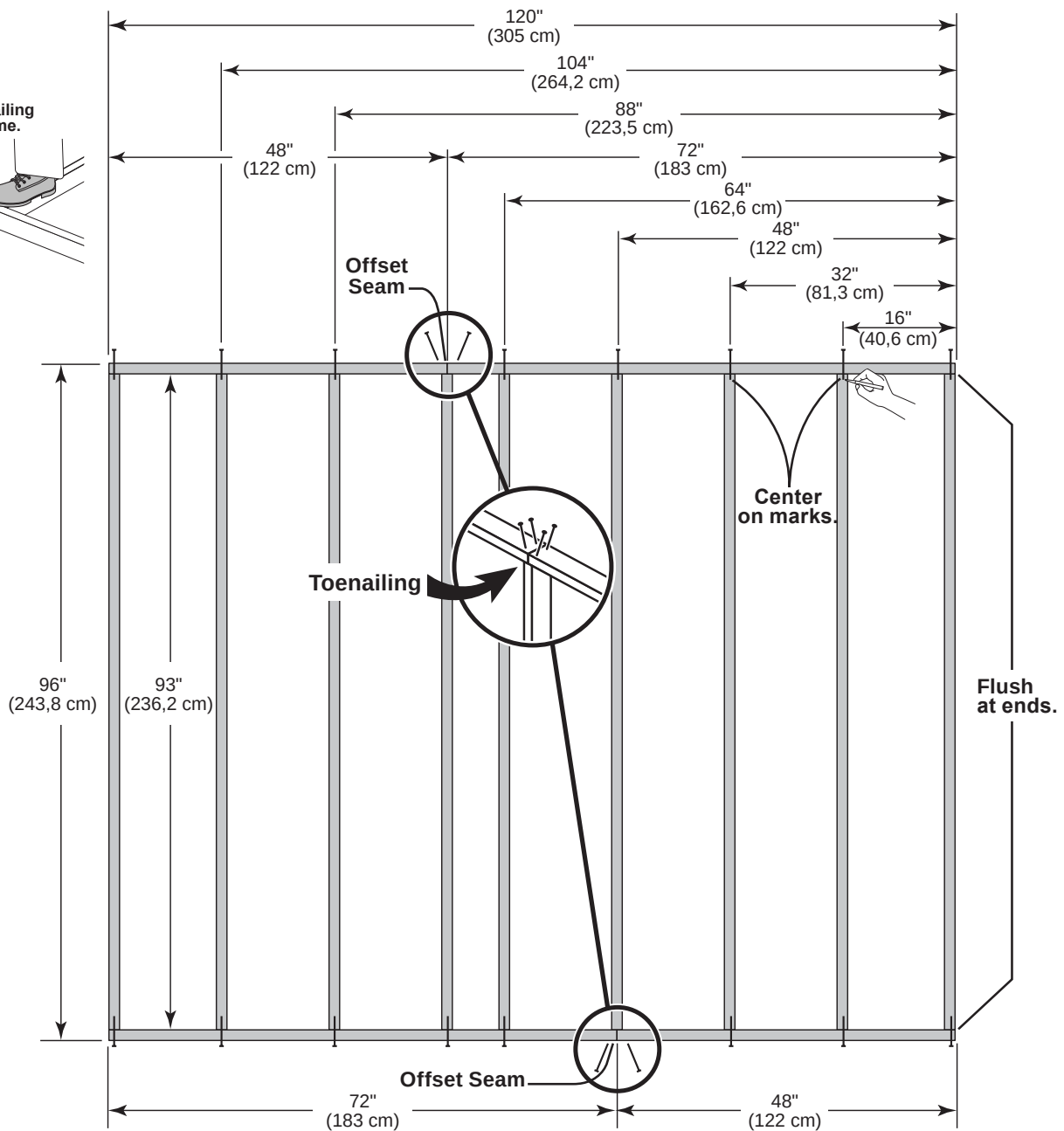
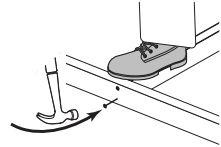


✓ **BEGIN** ⚠ You will build two floor sections.

- 1 Orient parts as shown on flat surface. Measure and mark.
- 2 Use two 3" nails at each mark.



HINT:
For easier nailing
stand on frame.



10 x 4' FLOOR FRAME

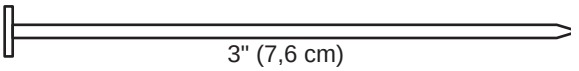
PARTS REQUIRED:

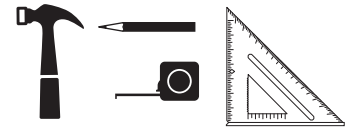
x2 
2 x 4 x 96" (5 x 10 x 243,8 cm) Treated Wood

x2 
2 x 4 x 24" (5 x 10 x 61cm) Treated Wood

Look for
TREATED
Stamp

x9 
2 x 4 x 45" (5 x 10 x 114,3 cm) Treated Wood

x42  3" (7,6 cm)

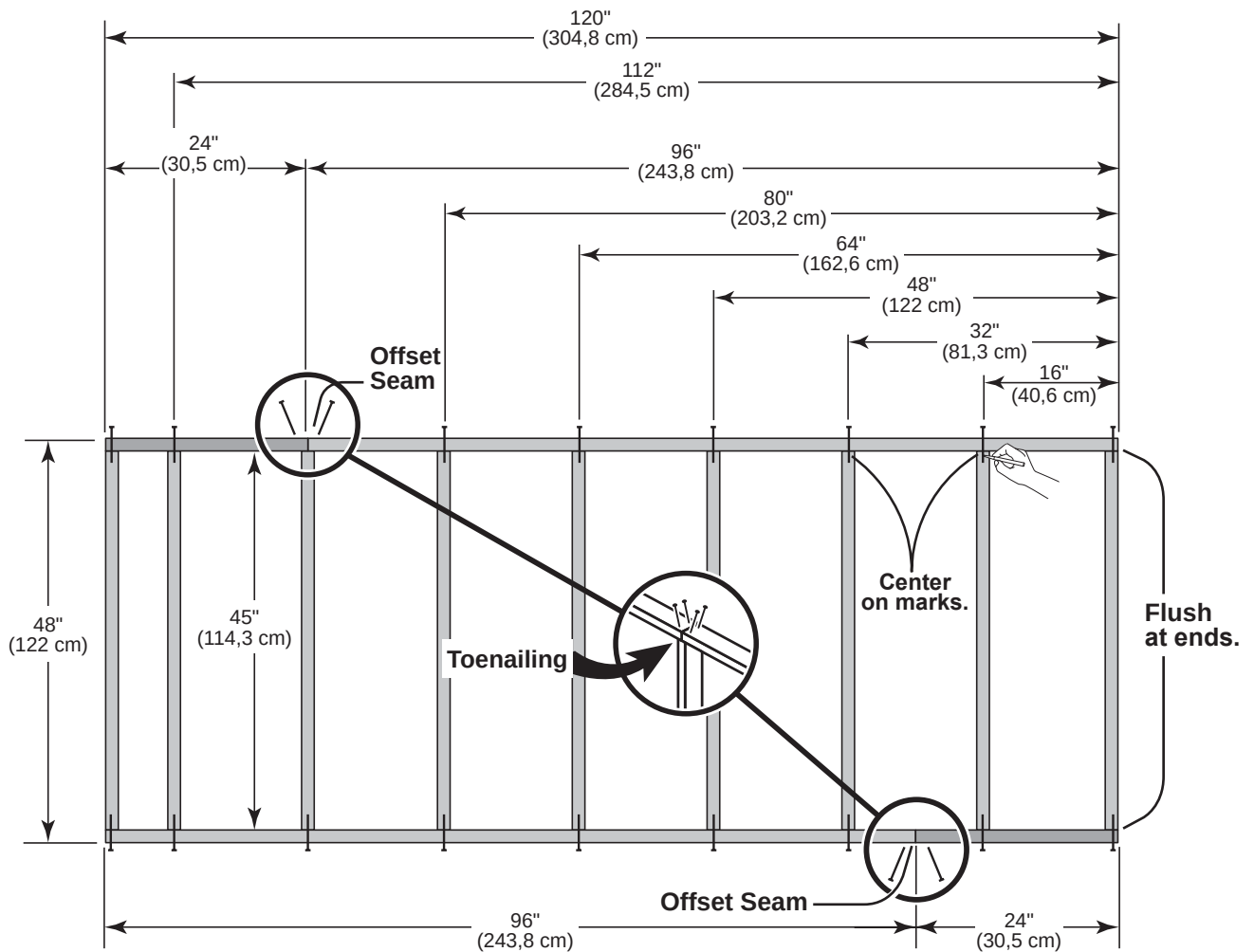
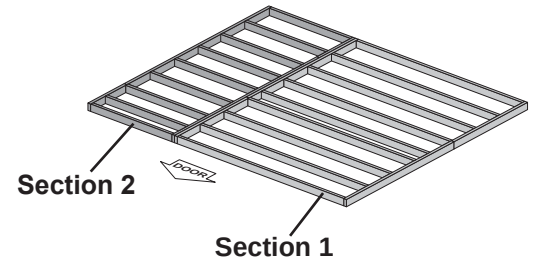
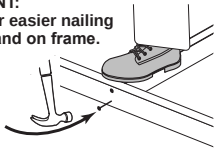


3 Orient parts as shown on flat surface to build floor section 2.
Measure and mark.

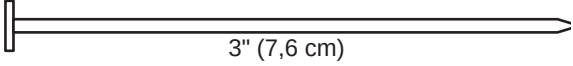
4 Use 3" nails at each mark and at seams.



HINT:
For easier nailing
stand on frame.

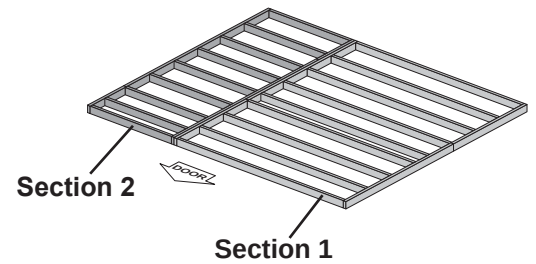


10 x 12' FLOOR FRAME

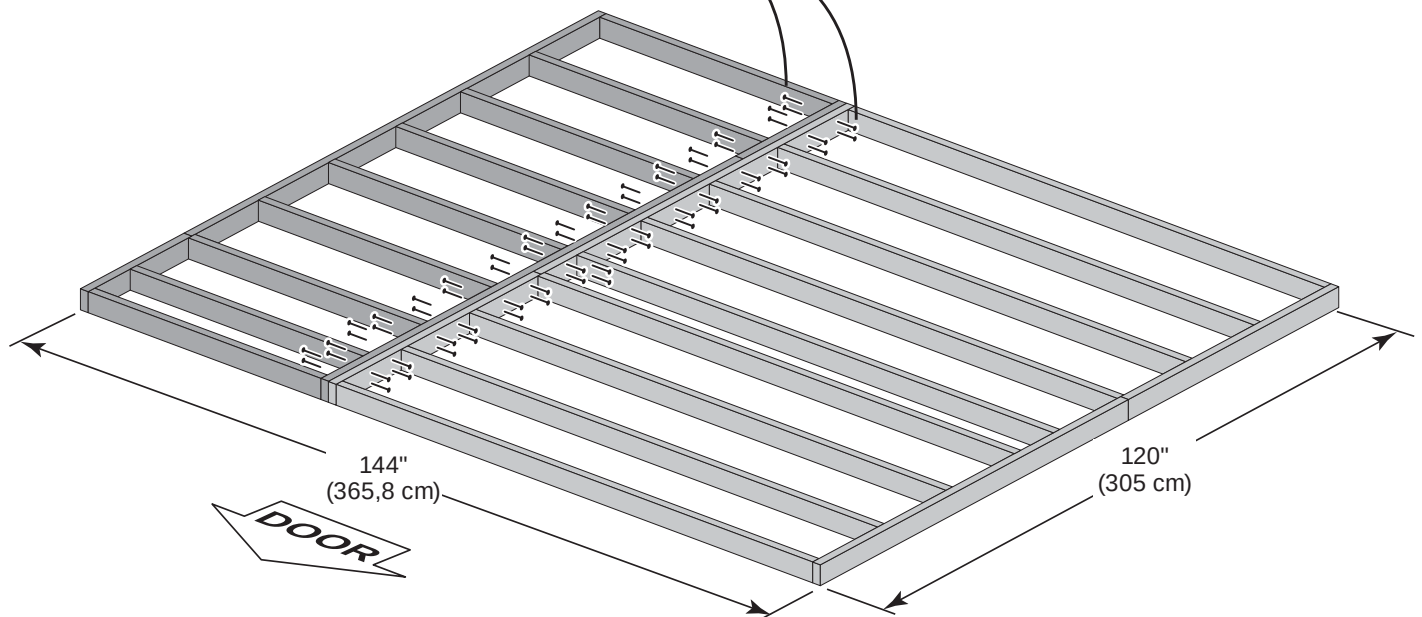
x64  3" (7,6 cm)



- 5 Put both floor sections together and attach as shown using 3" nails.



(4) Nails per side,
stagger pattern.



- 6 You have finished your floor frame. Proceed to level and square frame.

STOP!



LEVEL AND SQUARE FLOOR FRAME



Before attaching floor decking, it is important to level and square the floor frame.
A level and square floor frame is required to correctly construct your shed.

STOP!

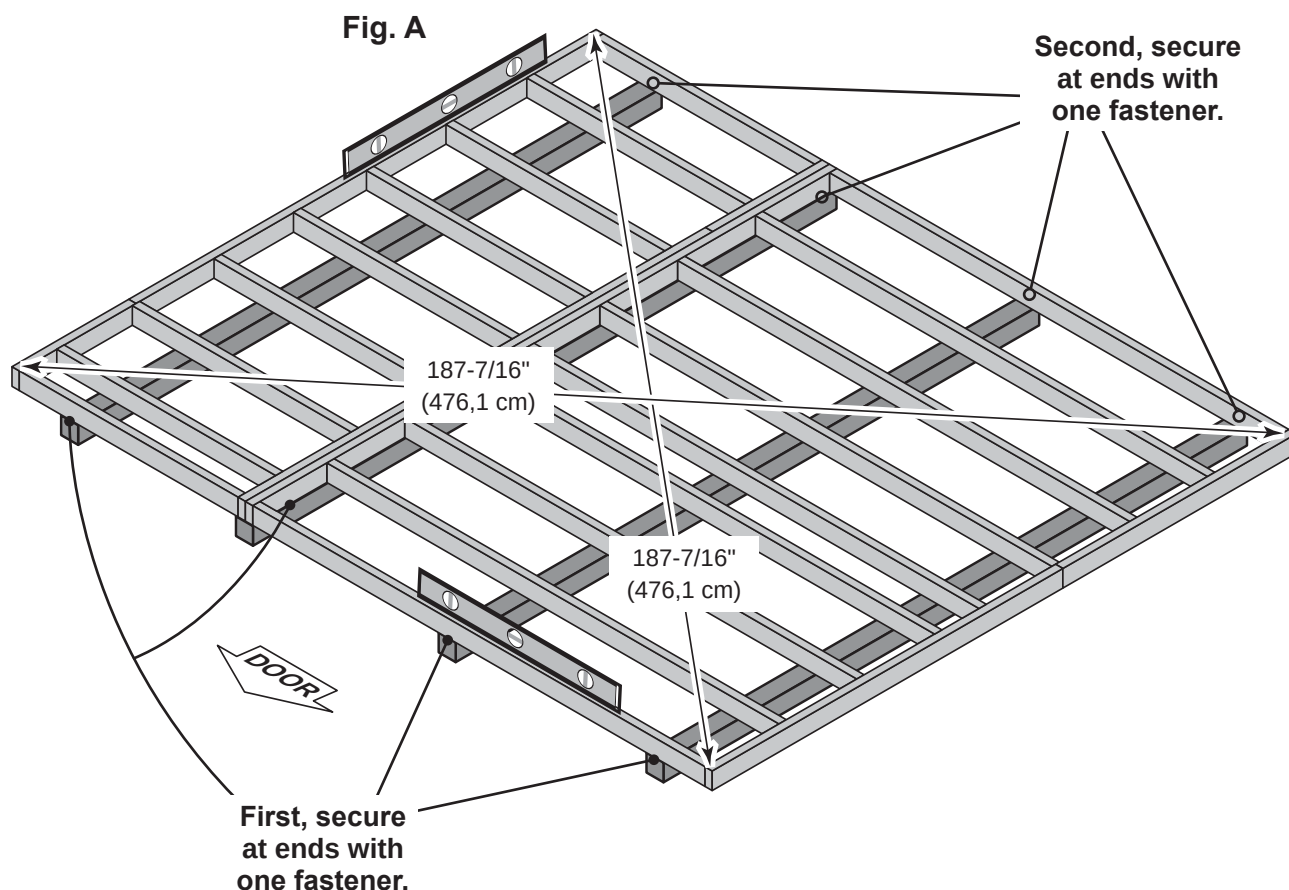
✓ **BEGIN**

- 1 See page 7 for the preferred floor leveling method.
- 2 Use level and check the frame is level before applying floor panels.
- 3 Check for frame squareness by measuring diagonally across corners. If the measurements are the same, the frame is square. The diagonal measurement will be approximately 187-7/16" (476,1 cm).
- 4 When the frame is level and square secure one side of frame to the 4x4 runners using one fastener at ends of each runner. Move to the opposite end of the frame. Secure the frame to 4x4 runners with one fastener at ends of each runner making sure the frame remains square (**Fig. A**).



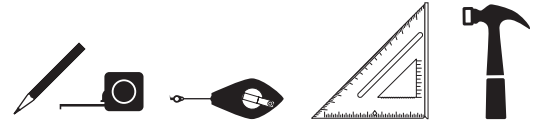
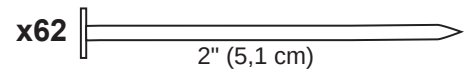
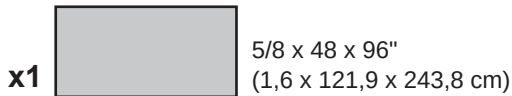
FINISH

- 5 Once the floor frame is level and square fasten the frame to the 4x4 runners at each point the frame contacts the 4x4 runners.



FLOOR PANELS

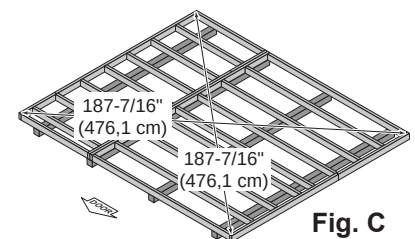
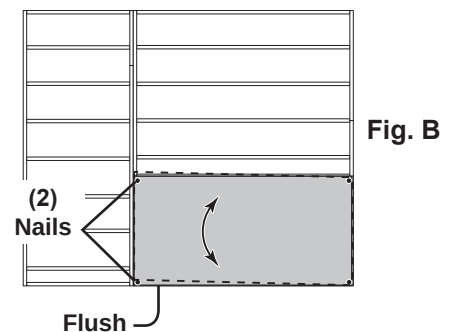
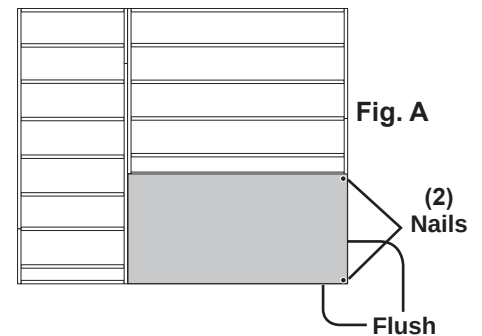
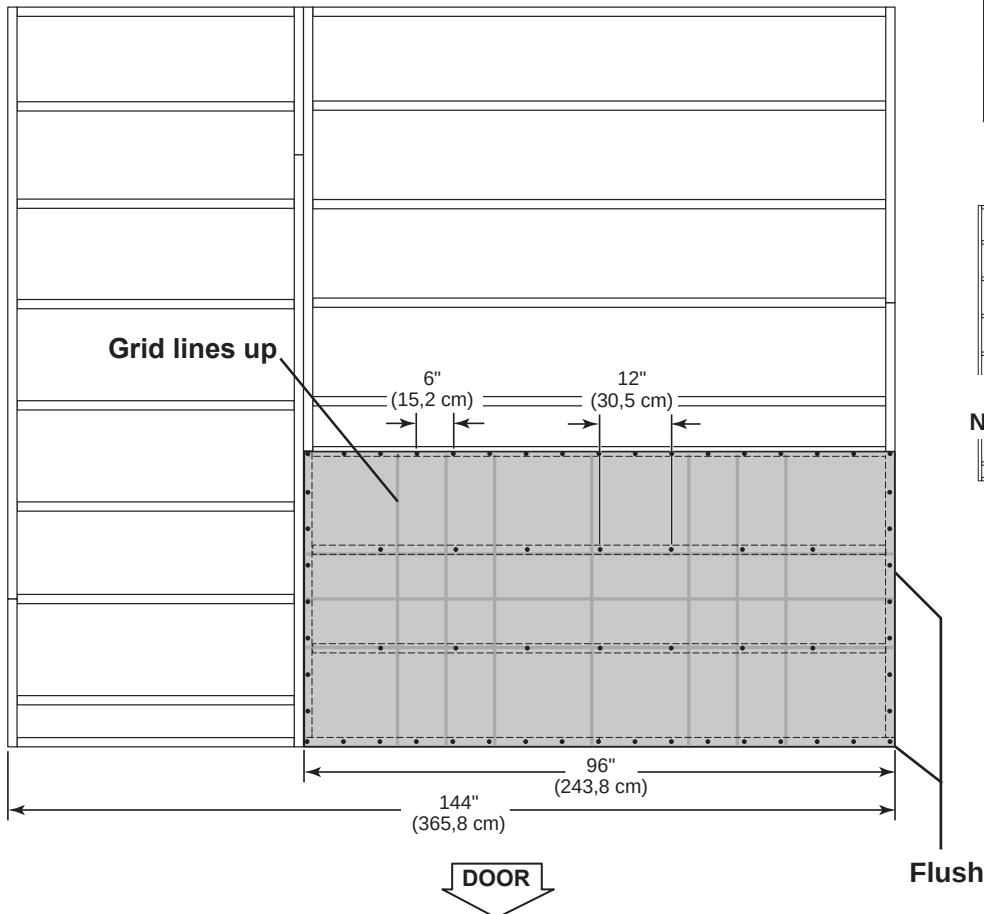
PARTS REQUIRED:



 **Ensure your floor frame is square by installing one panel and squaring frame.**

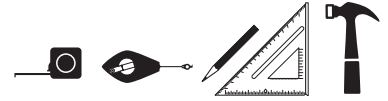
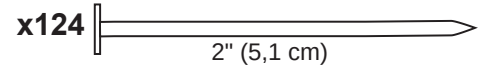
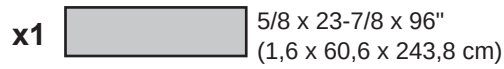
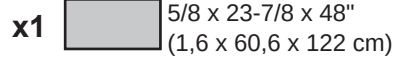
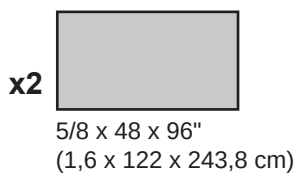
✓ **BEGIN**

- 1** Attach the 48 x 96" panel with the rough side up (painted-grid lines side) with the 48" edge and corner flush to the floor frame (**Fig A**). Secure panel with two 2" nails in the corners.
- 2** Move to the opposite side. Using the long edge of the panel as a lever, move the panel side-to-side until the top corner is flush to the floor frame (**Fig. B**). Secure panel with two 2" nails in the corners.
- 3** Check the floor frame is square by measuring diagonally across the frame corners. If the measurements are the same your floor frame is square. The measurement will be approximately 187-7/16" (476,1 cm) (**Fig. C**).
- 4** Continue attaching the panel using 2" nails 6" apart on edges and 12" apart inside panel. Use a chalk line or use pre-painted grid lines to nail into joists under panel.



FLOOR PANELS

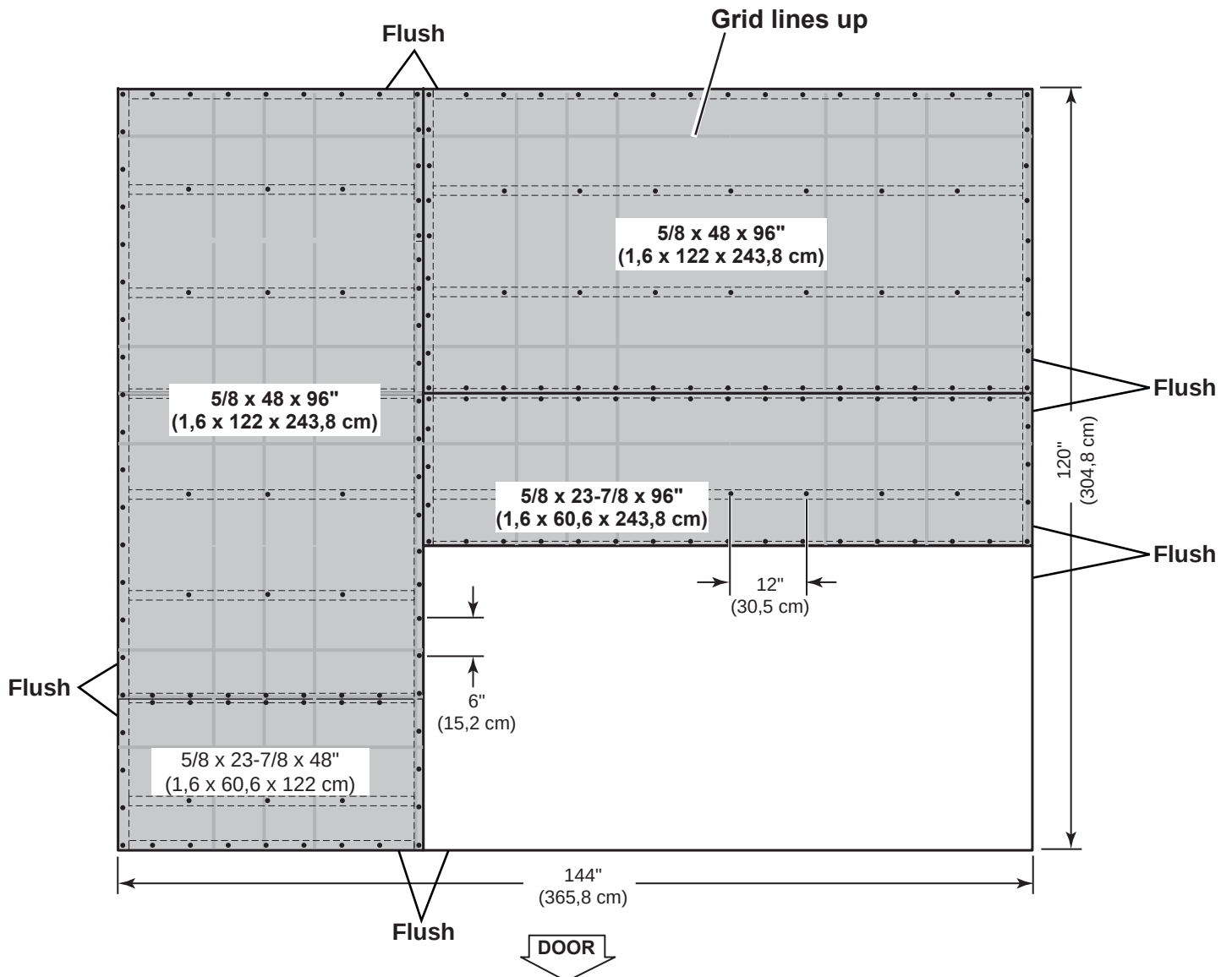
PARTS REQUIRED:



- 5 Continue installing panels with rough side up (painted grid lines).
- 6 Use grid lines on panel for 2" nails 6" apart on edges, and 12" apart inside panels.



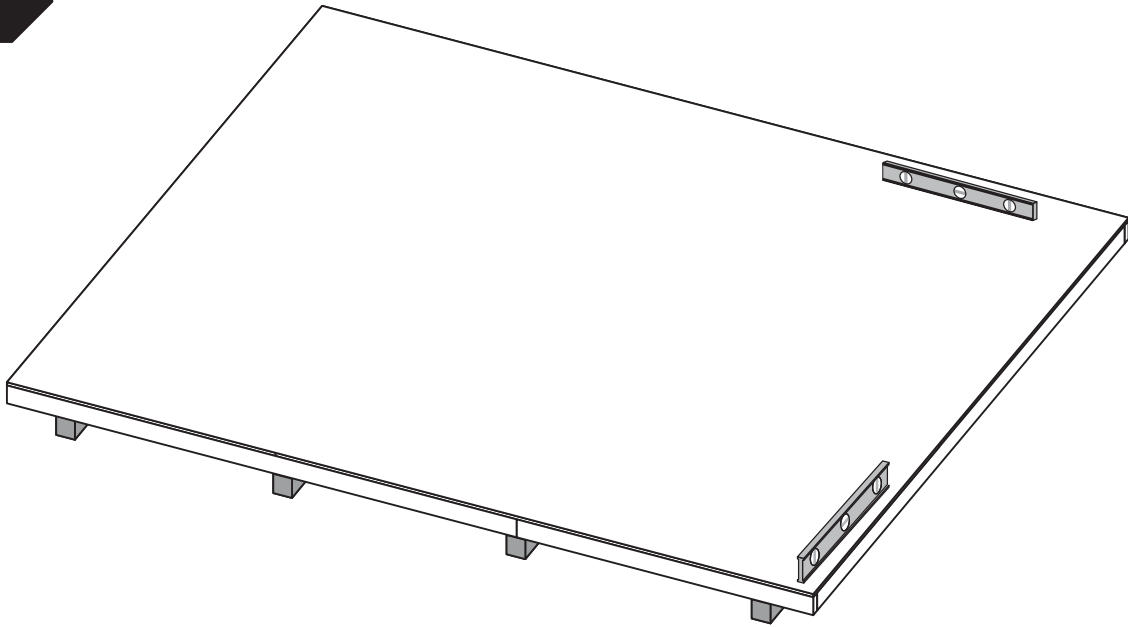
- 7 You have finished attaching your floor panels.



IMPORTANT!

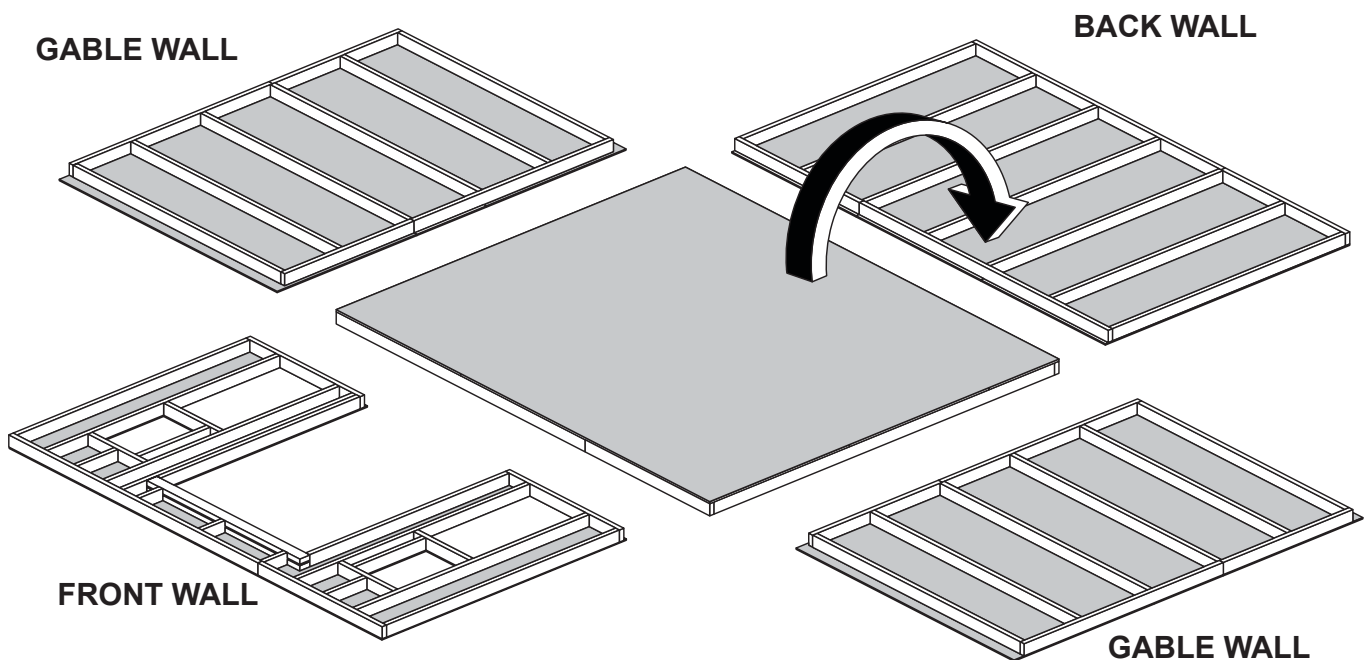
STOP!

Check the floor frame is level after installing floor panels.
Re-level if needed.



HINT:

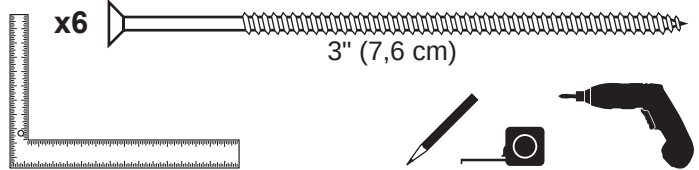
- The floor should be used as a stable work surface for wall construction.
- Organize your assembly procedure during the build process to avoid over-handling of the walls.



MAIN ROOF TRUSS ASSEMBLY

PARTS REQUIRED:

x3 PVA 2 x 4 x 5-7/8" (5,1 x 10,2 x 14,9 cm)

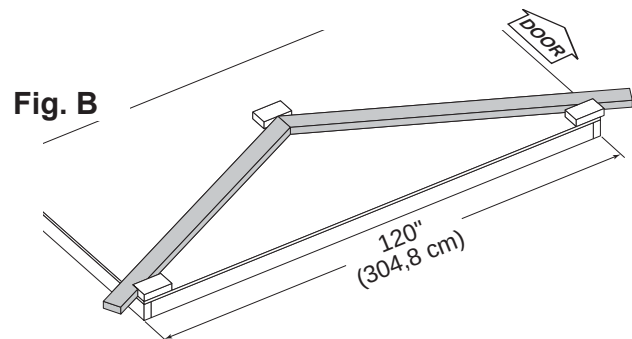
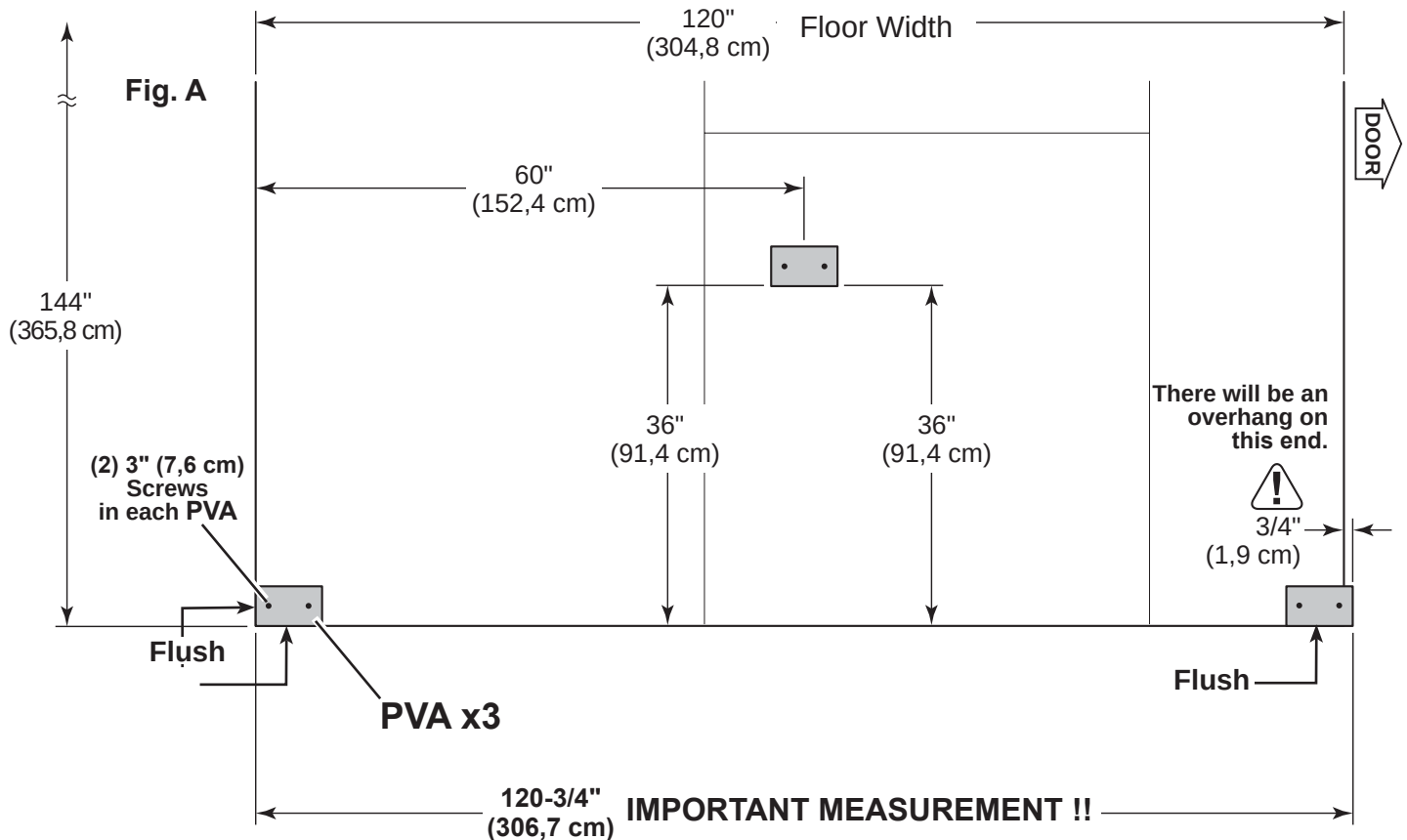


For an even and flat roof it is *very important* to assemble your trusses using the following method:

You will build a rafter jig using the gable end of floor and three **PVA** parts as shown.

✓ **BEGIN**

- 1** Secure one **PVA** flush to the floor deck using two 3" screws. Measure over 120-3/4" and install a second **PVA** flush to the floor deck. **PVA** will overhang the floor. Secure using two 3" screws.
- 2** Measure over 60" and up 36" from the floor edges and secure the third **PVA** using two 3" screws. Check this **PVA** is 36" at both ends for squareness.

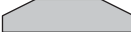


FINISH

- 3** You have finished building the main roof rafter jig. Proceed to assemble your trusses.

MAIN ROOF TRUSS ASSEMBLY

PARTS REQUIRED:

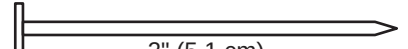
x4  OSB OR WOOD GRAIN
6 x 24" (15,2 x 61 cm)

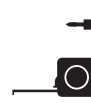
x4  ECN
2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)

x4 


1-5/8" (4,1 cm)

x44


2" (5,1 cm)



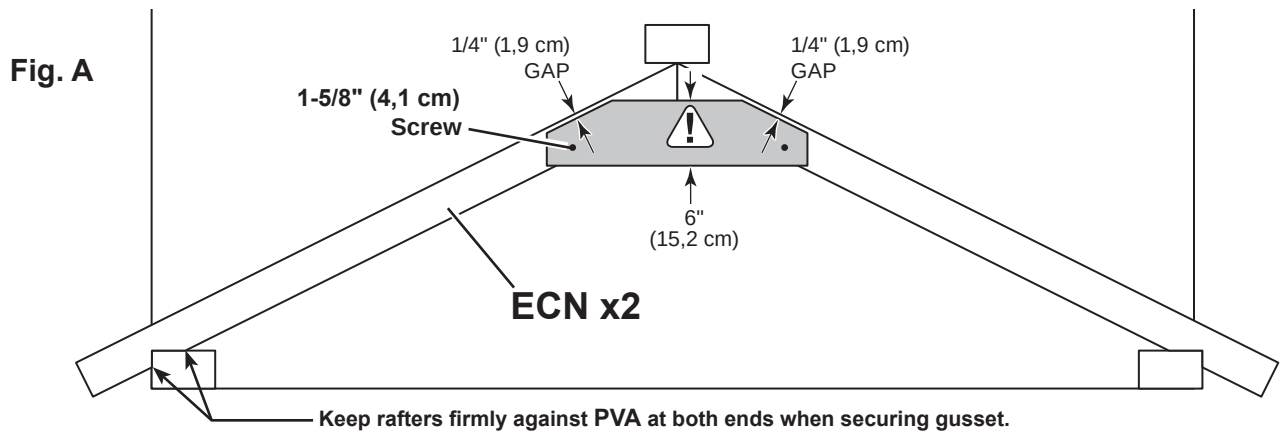
✓ **BEGIN**

- 1 Place two rafters **ECN** into the jig as shown.
- 2 Keep **ECN** firm against outside **PVA**'s as shown (**Fig. A**) and push rafters tight to the middle **PVA**. Rafters should touch at tips (**Fig. A**).

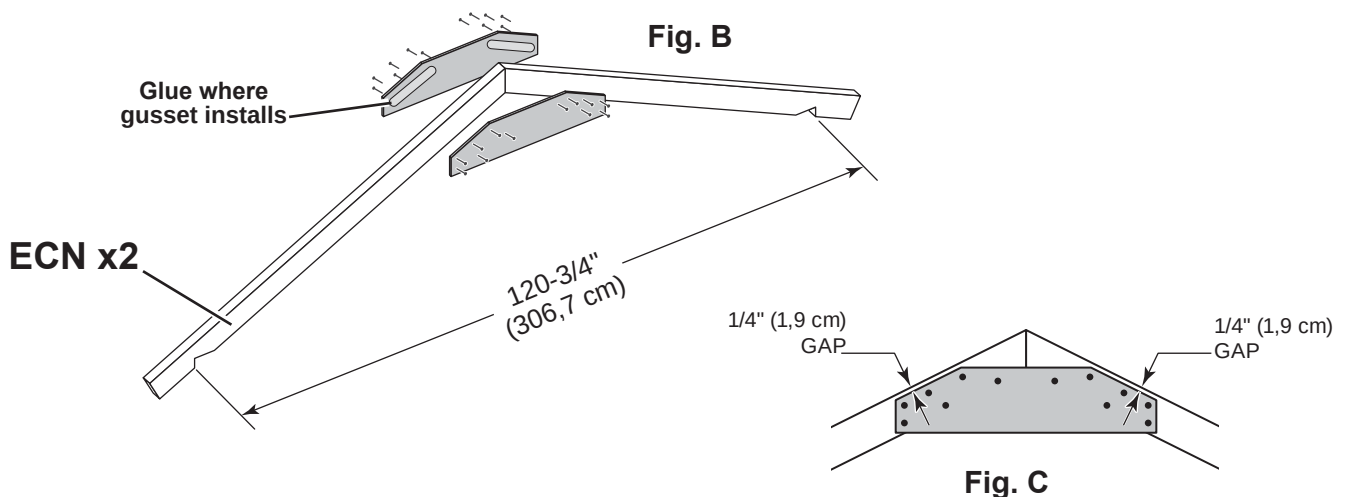
Apply glue to rafters where gusset will attach (**Fig. B**).

Place gusset onto **ECN** holding a 1/4" gap from edge (**Fig. C**) and keeping rafters firm as instructed. Secure gusset using one 1-5/8" screw into each rafter. **HINT:** These screws will help hold the measurements when you nail on gussets.

Use ten 2" nails to finish securing the gusset to the rafters to pattern shown in **Fig. C**.



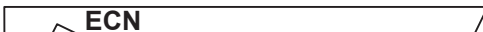
- 3 Flip rafters over and attach a second gusset using glue and (12) 2" nails. No need to use jig for this gusset.
- 4 Repeat steps 1 through 3 to assemble one more double gusset rafter.



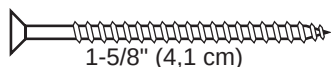
MAIN ROOF TRUSS ASSEMBLY

PARTS REQUIRED:

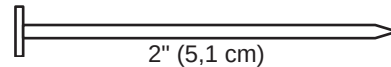
x2  **OSB OR WOOD GRAIN**
6 x 24" (15,2 x 61 cm)

x4  **ECN**
2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)

x4 

 1-5/8" (4,1 cm)

x20

 2" (5,1 cm)



5 Place two rafters **ECN** into the jig as shown.

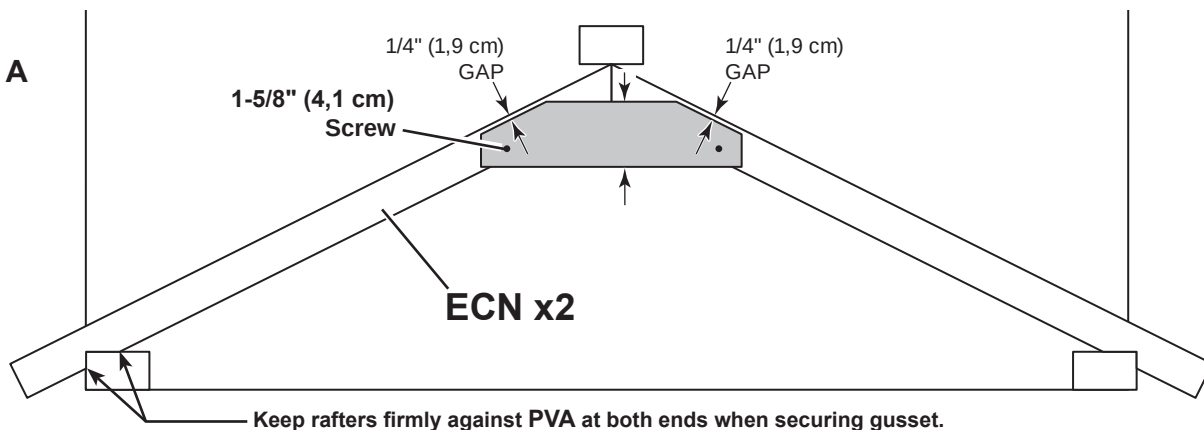
6 Keep **ECN** firm against outside **PVA**'s as shown (**Fig. A**) and push rafters tight to the middle **PVA**. Rafters should touch at tips (**Fig. A**).

Apply glue to rafters where gusset will attach (**Fig. B**).

Place gusset onto **ECN** holding a 1/4" gap from edge (**Fig. C**) and keeping rafters firm as instructed. Secure gusset using one 1-5/8" screw into each rafter. **HINT:** These screws will help hold the measurements when you nail on gussets.

Use ten 2" nails to finish securing the gusset to the rafters to pattern shown in **Fig. C**.

Fig. A



7 Repeat **Steps 5-6** to assemble one more single gusset rafter.

8 Remove **PVA**'s from floor.

Fig. B

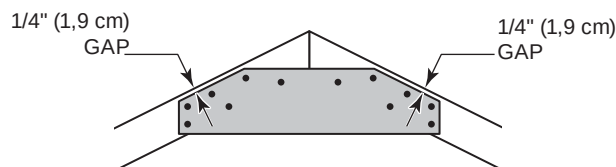
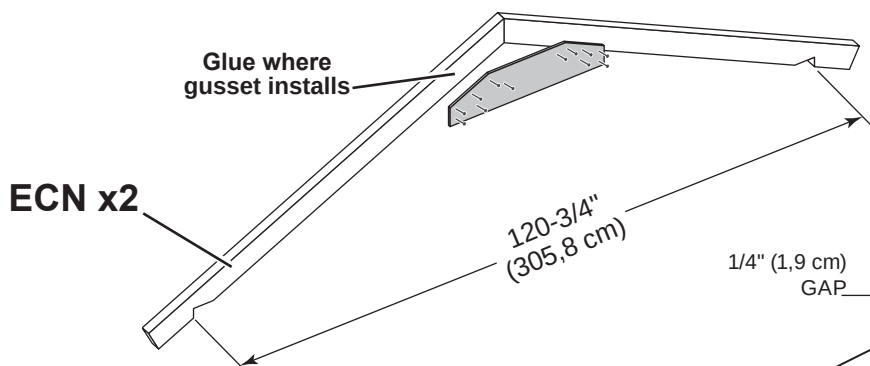


Fig. C



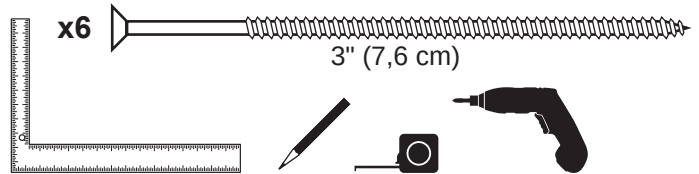
FINISH

9 You have finished assembling your main roof trusses.

DORMER TRUSS ASSEMBLY

PARTS REQUIRED:

x3 **PVA** 2 x 4 x 5-7/8" (5,1 x 10,2 x 14,9 cm)

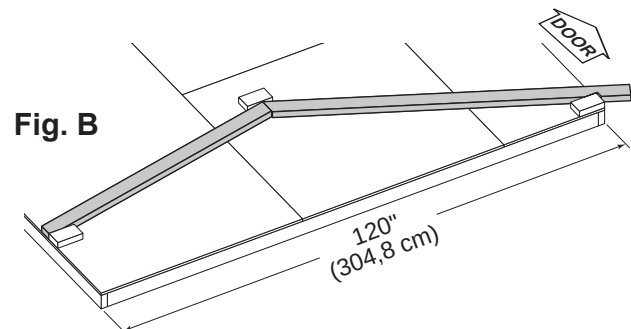
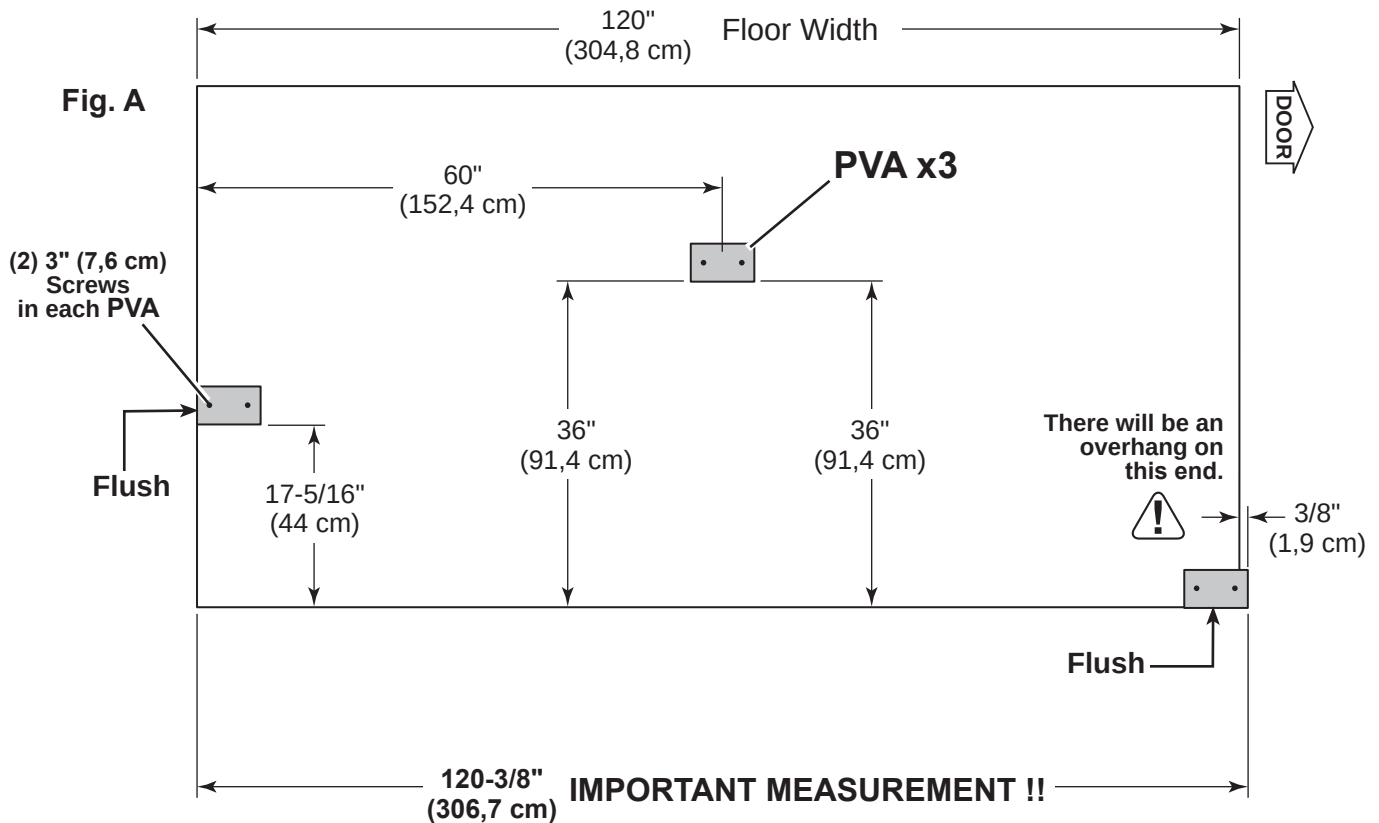


For an even and flat roof it is *very important* to assemble your trusses using the following method:

You will build a rafter jig using the gable end of floor and three **PVA** parts as shown.

✓ BEGIN

- 1** Secure one **PVA** flush to the floor deck using two 3" screws. Measure over 120-3/8" and install a second **PVA** flush to the floor deck. **PVA** will overhang the floor. Secure using two 3" screws.
- 2** Measure over 60" and up 36" from the floor edges and secure the third **PVA** using two 3" screws. Check this **PVA** is 36" at both ends for squareness.



FINISH

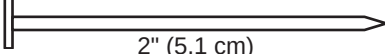
- 3** You have finished building the main roof rafter jig. Proceed to assemble your dormer trusses.

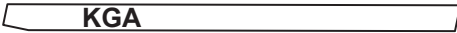
DORMER TRUSS ASSEMBLY (CENTER 2 GUSSET)

PARTS REQUIRED:

x6  OSB OR WOOD GRAIN
4-13/16 x 24" (12,2 x 61 cm)

x2  1-5/8" (4,1 cm)

x66  2" (5,1 cm)

x3  **KGA** 2 x 4 x 61-13/16" (5,1 x 10,2 x 157 cm)

x3  **ECN** 2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)



✓ **BEGIN**

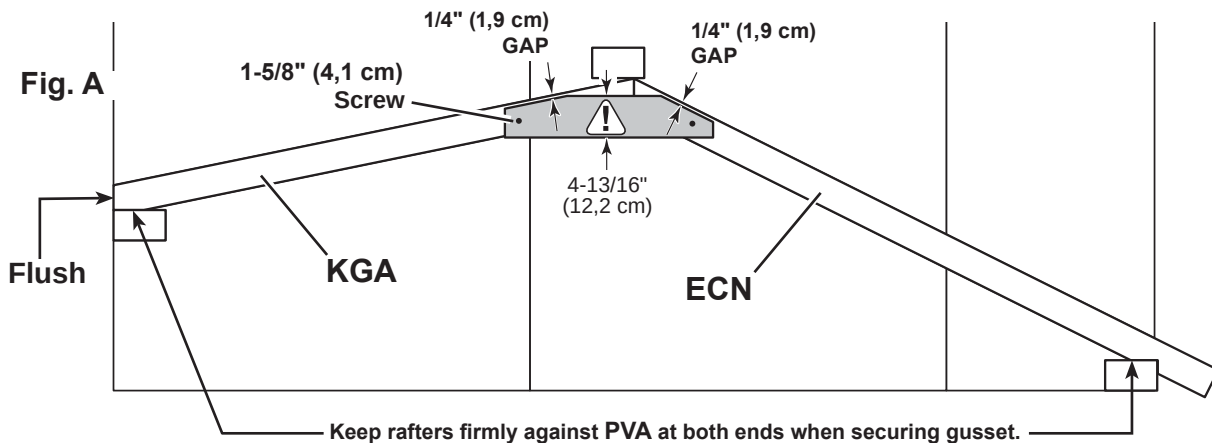
- 1 Place rafters **KGA** and **ECN** into the jig as shown.
- 2 Keep **KGA** and **ECN** firm against outside **PVA**'s as shown (**Fig. A**) and push rafters tight to the middle **PVA**. Rafters should touch at tips (**Fig. A**).

Apply glue to rafters where gusset will attach (**Fig. B**).

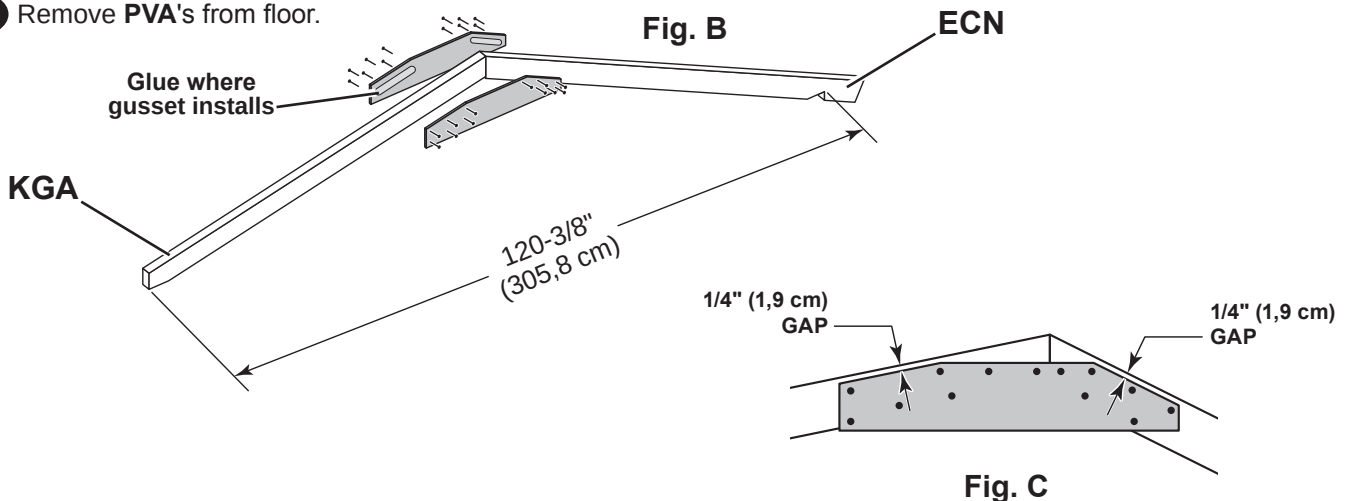
Place gusset onto **KGA** and **ECN** holding a 1/4" gap from edge (**Fig. C**) and keeping rafters firm as instructed. Secure gusset using two 1-5/8" screws into each rafter.

HINT: These screws will help hold the measurements when you nail on gussets.

Use ten 2" nails to finish securing the gusset to the rafters to pattern shown in **Fig. C**.



- 3 Flip rafters over and attach a second gusset using glue and (12) 2" nails. No need to use jig for this gusset.
- 4 Repeat steps 1 through 3 to assemble two more double gusset dormer rafters.
- 5 Remove **PVA**'s from floor.

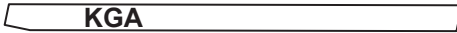


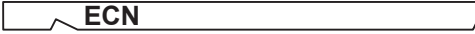
- 6 Continue to build two more trusses with only one gusset

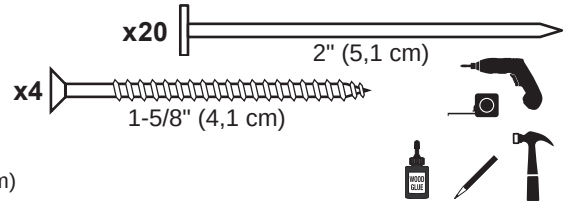
DORMER TRUSS ASSEMBLY (RIGHT 1 GUSSET)

PARTS REQUIRED:

x2  OSB OR WOOD GRAIN
4-13/16 x 24" (12,2 x 61 cm)

x2  **KGA** 2 x 4 x 61-13/16" (5,1 x 10,2 x 157 cm)

x2  **ECN** 2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)



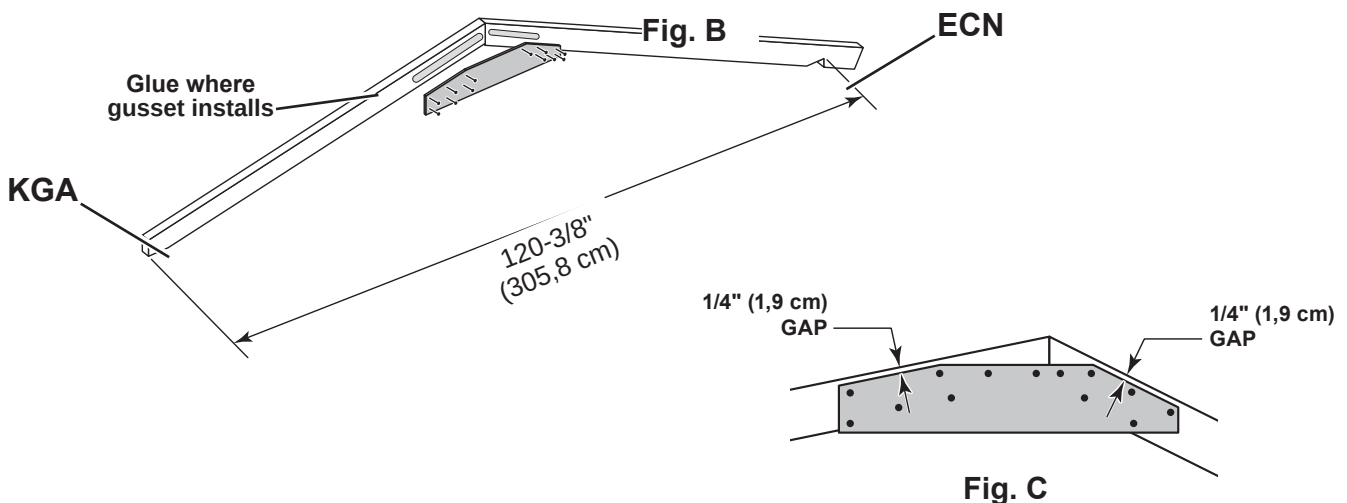
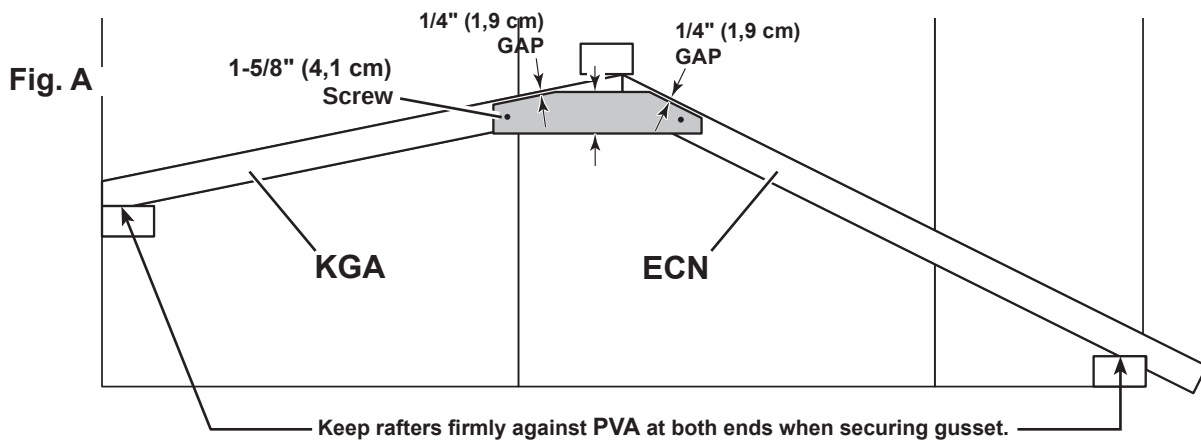
7 Place rafters **KGA** and **ECN** into the jig as shown.

8 Keep **KGA** and **ECN** firm against outside **PVA**'s as shown (**Fig. A**) and push rafters tight to the middle **PVA**. Rafters should touch at tips (**Fig. A**).

Apply glue to rafters where gusset will attach (**Fig. B**).

Place gusset onto **KGA** and **ECN** holding a 1/4" gap from edge (**Fig. C**) and keeping rafters firm as instructed. Secure gusset using one 1-5/8" screw into each rafter. **HINT:** These screws will help hold the measurements when you nail on gussets.

Use (12) 2" nails to finish securing the gusset to the rafters to pattern shown in **Fig. C**.



6 Continue to build the left dormer truss with only one gusset.

DORMER TRUSS ASSEMBLY (LEFT 1 GUSSET)

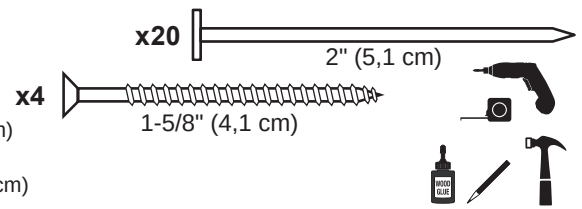
PARTS REQUIRED:

x2 OSB OR WOOD GRAIN 4-13/16 x 24" (12,2 x 61 cm)

x1 TEMPORARY OSB PANEL 7/16 x 7-11/16 x 24" (1,1 x 19,5 x 61 cm)

x2 KGA 2 x 4 x 61-13/16" (5,1 x 10,2 x 157 cm)

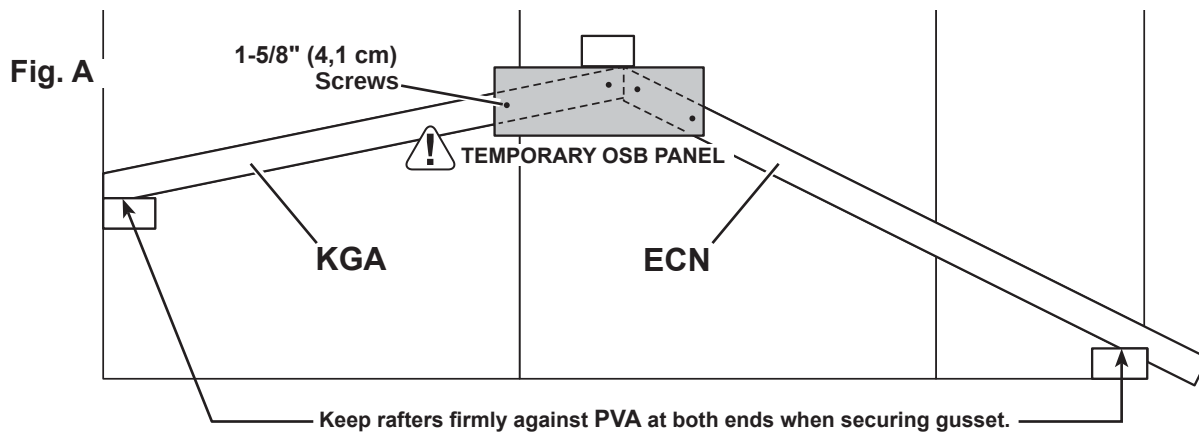
x2 ECN 2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)



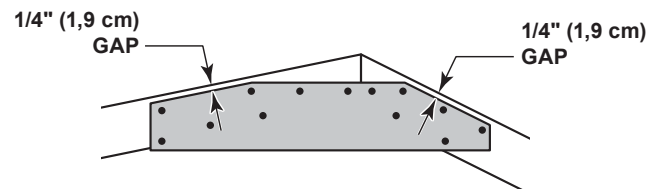
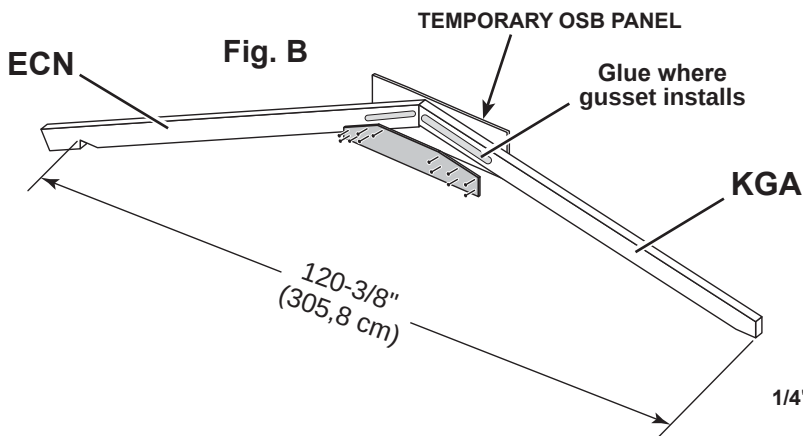
7 Place rafters **KGA** and **ECN** into the jig as shown.

8 Keep **KGA** and **ECN** firm against outside **PVA**'s as shown (**Fig. A**) and push rafters tight to the middle **PVA**. Rafters should touch at tips (**Fig. A**).

Place gusset onto **KGA** and **ECN** holding a 1/4" gap from edge (**Fig. C**) and keeping rafters firm as instructed. Secure **TEMPORARY OSB PANEL** using two 1-5/8" screws into each rafter. **HINT:** the **TEMPORARY OSB PANEL** will hold the measurements when you flip over the rafters to install the gusset (**Fig B**). **Do not glue.**



9 Flip rafters over and attach the gusset using glue (**Fig. B**) and (12) 2" nails to finish securing the gusset to the rafters with pattern shown (**Fig. C**). No need to use jig for this gusset.



11 Remove **TEMPORARY OSB PANEL** from truss and **PVA**'s from floor.

! Handle **TEMPORARY OSB PANEL** carefully as it will be used later as a roof panel.



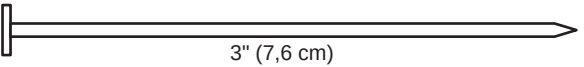
12 You have finished assembling your dormer trusses.

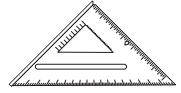
DOOR HEADER

PARTS REQUIRED:

x2 **KMA**
2 x 4 x 59" (5,1 x 10,2 x 149,9 cm)

x1 **Filler**
7/16 x 3-1/2 x 59" (1,1 x 8,9 x 149,9 cm)

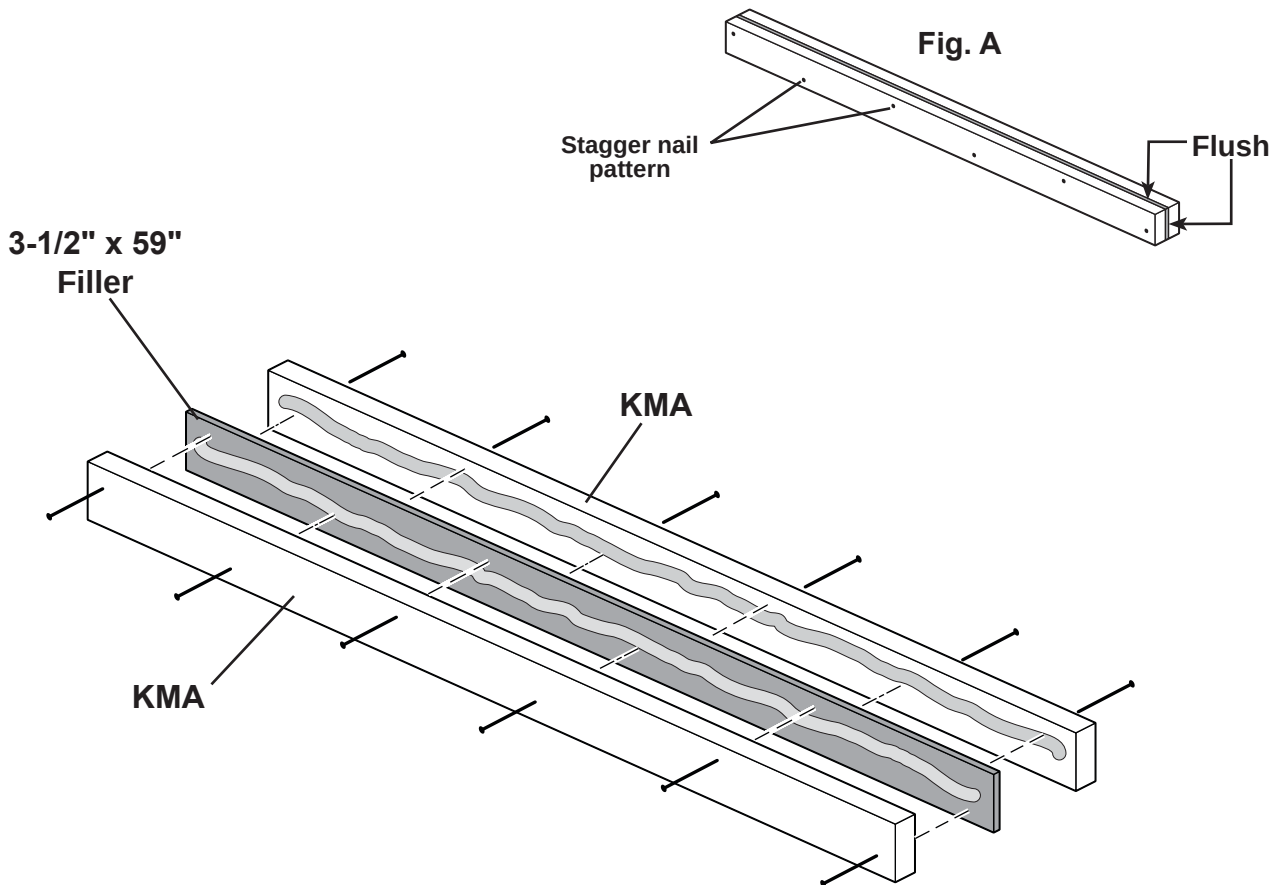
x12  3" (7,6 cm)



✓ **BEGIN**

1 Apply wood glue to both sides of 3-1/2" x 59" Filler.

2 Nail together using 3" nails in a staggered pattern (**Fig. A**).



FINISH

3 You have finished assembling your door header.

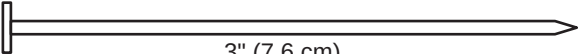
FRONT WALL WINDOW FRAMES

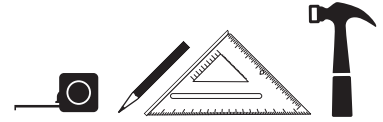
PARTS REQUIRED:

x4 **KJA**
2 x 4 x 21-3/8" (5,1 x 10,2 x 54,3 cm)

x2 **KHA**
2 x 4 x 24-1/2" (5,1 x 10,2 x 62,2 cm)

x4 **TK**
2 x 4 x 80" (5,1 x 10,2 x 203,2 cm)

x12  3" (7,6 cm)



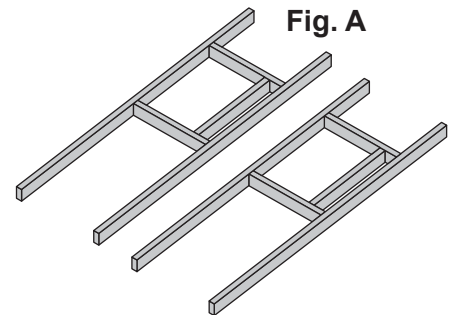
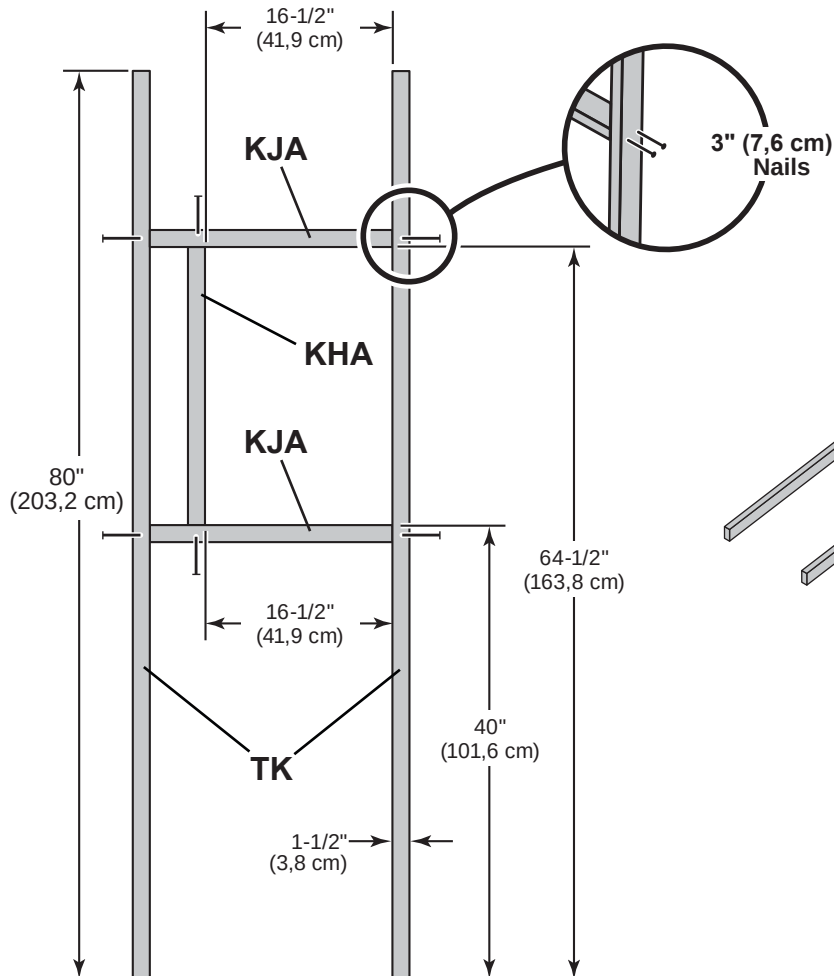
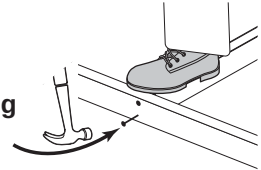
 You will build two window frame assemblies (Fig.A).

✓ BEGIN

- 1 Orient parts on edge on floor. Measure and mark.
- 2 Use two 3" nails at each mark.



HINT:
For easier nailing
stand on frame.



- 3 Repeat **Steps 1-2** to build second window frame.

FINISH

- 4 You have finished assembling your window frames.

FRONT WALL FRAME

PARTS REQUIRED:

x2	ST	x46	3" (7,6 cm)
x1	SP		
	2 x 4 x 44" (5,1 x 10,2 x 111,8 cm)		
x4	TK	x1	COA
	2 x 4 x 80" (5,1 x 10,2 x 203,2 cm)		2 x 4 x 8" (5,1 x 10,2 x 20,3 cm)
x1	TP	x1	Header Assembly
	2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)		2 x 4 x 59" (5,1 x 10,2 x 149,9 cm)
x2	YFA		
	2 x 4 x 68-1/2" (5,1 x 10,2 x 174 cm)		

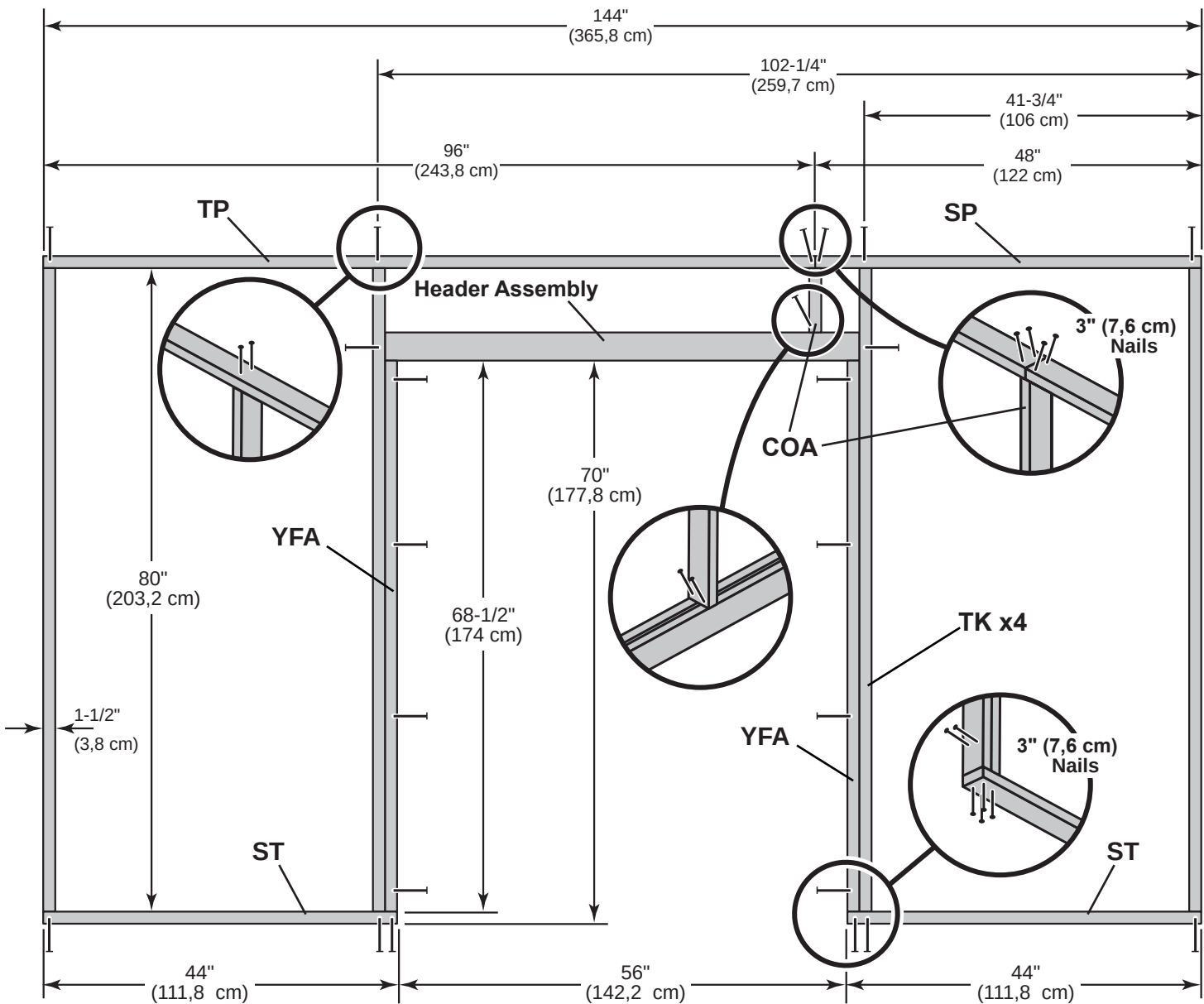
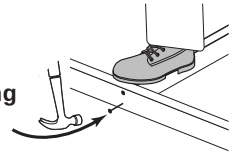


BEGIN

- 1 Orient parts on edge on floor. Measure and mark.
- 2 Use two 3" nails at each mark.

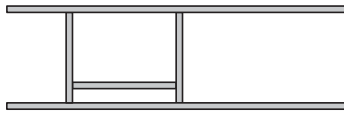


HINT:
For easier nailing
stand on frame.



FRONT WALL FRAME

PARTS REQUIRED:

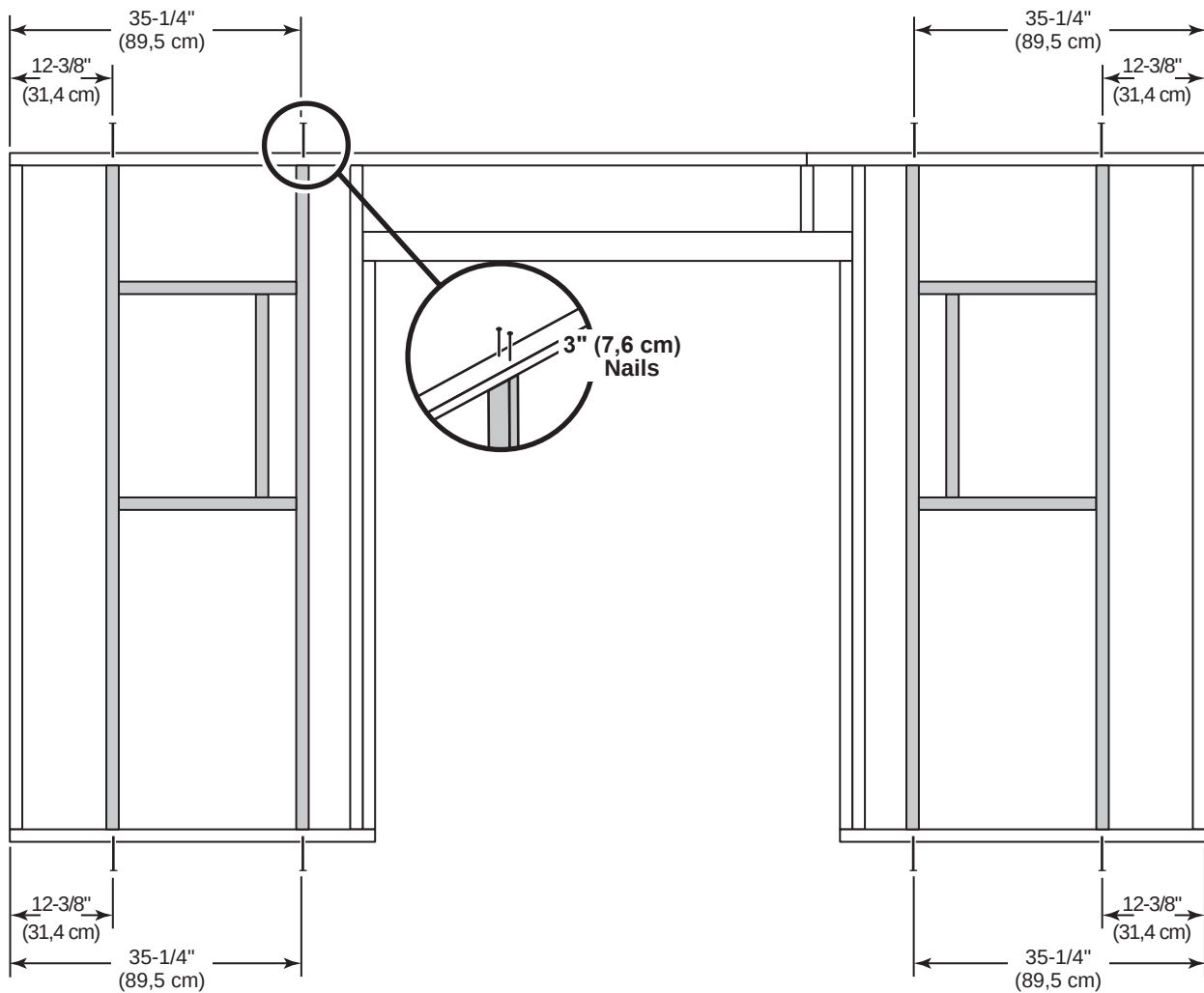


x2 Window Frame Assembly

x16 3" (7,6 cm)



- 3 Place **Window Frame Assemblies** as shown.
Measure and mark. Secure with 3" nails.



FRONT WALL FRAME

PARTS REQUIRED:

x2 **COA**
2 x 4 x 8" (5,1 x 10,2 x 20,3 cm)

x2 **KIA**
2 x 4 x 14" (5,1 x 10,2 x 35,6 cm)

x17  3" (7,6 cm)

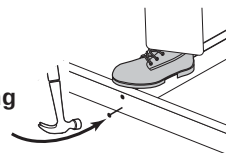
7/16" (11 mm) Drill Bit



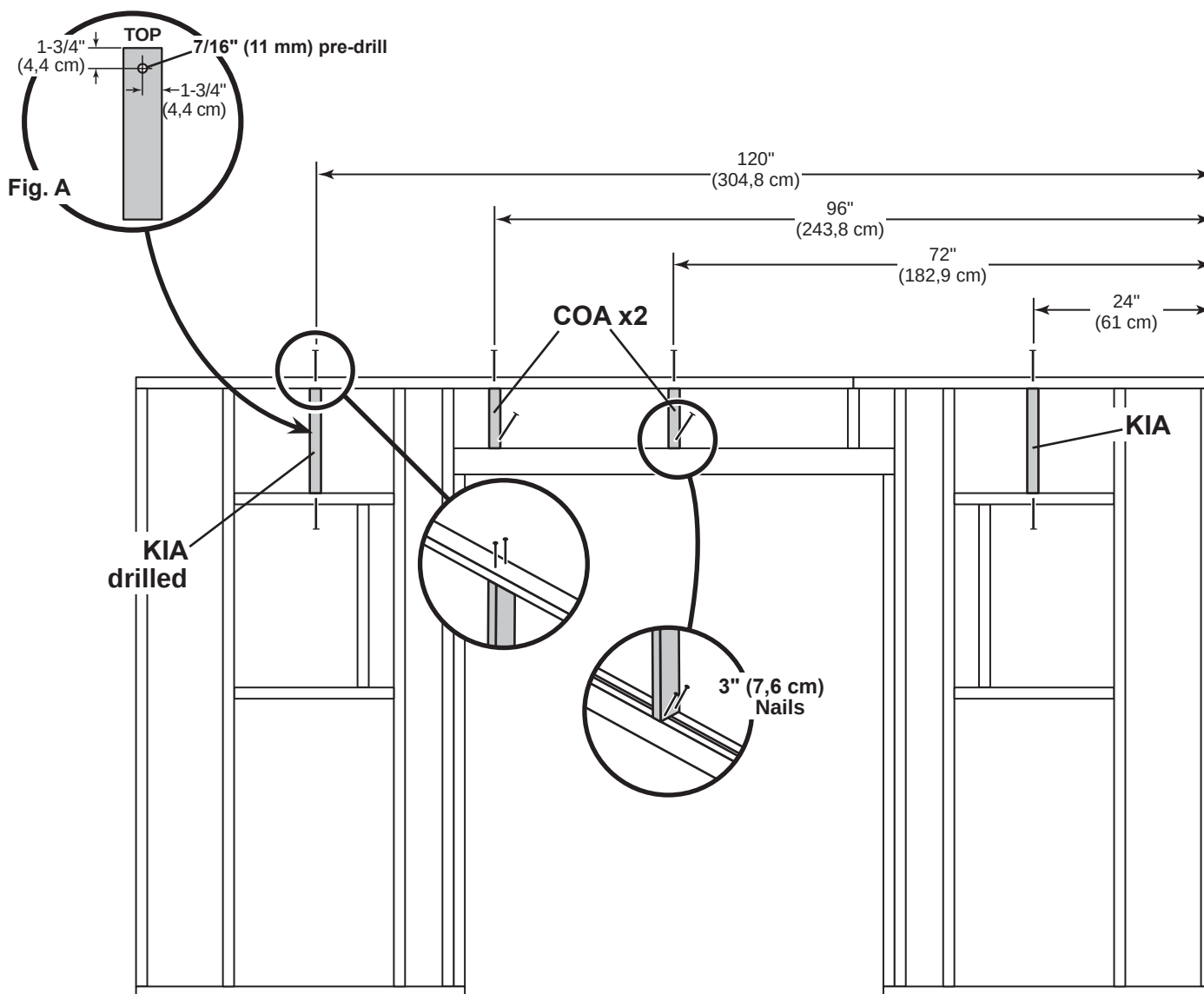
4 Orient parts as shown. Measure and mark. Secure with 3" nails.



HINT:
For easier nailing
stand on frame.



Before installing **KIA** on left side pre-drill a 7/16" hole (**Fig. A**).
This part will be used when assembling your loft. (**Do not nail through hole.**)

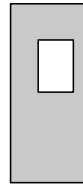


5

You have finished building your front wall frame.

FRONT WALL PANELS

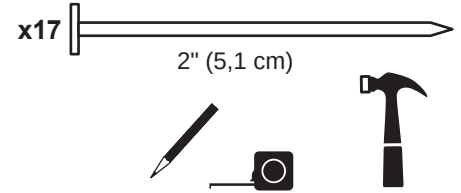
PARTS REQUIRED:



35-1/8 x 84"
(89,2 x 213,4 cm)
x1 LEFT

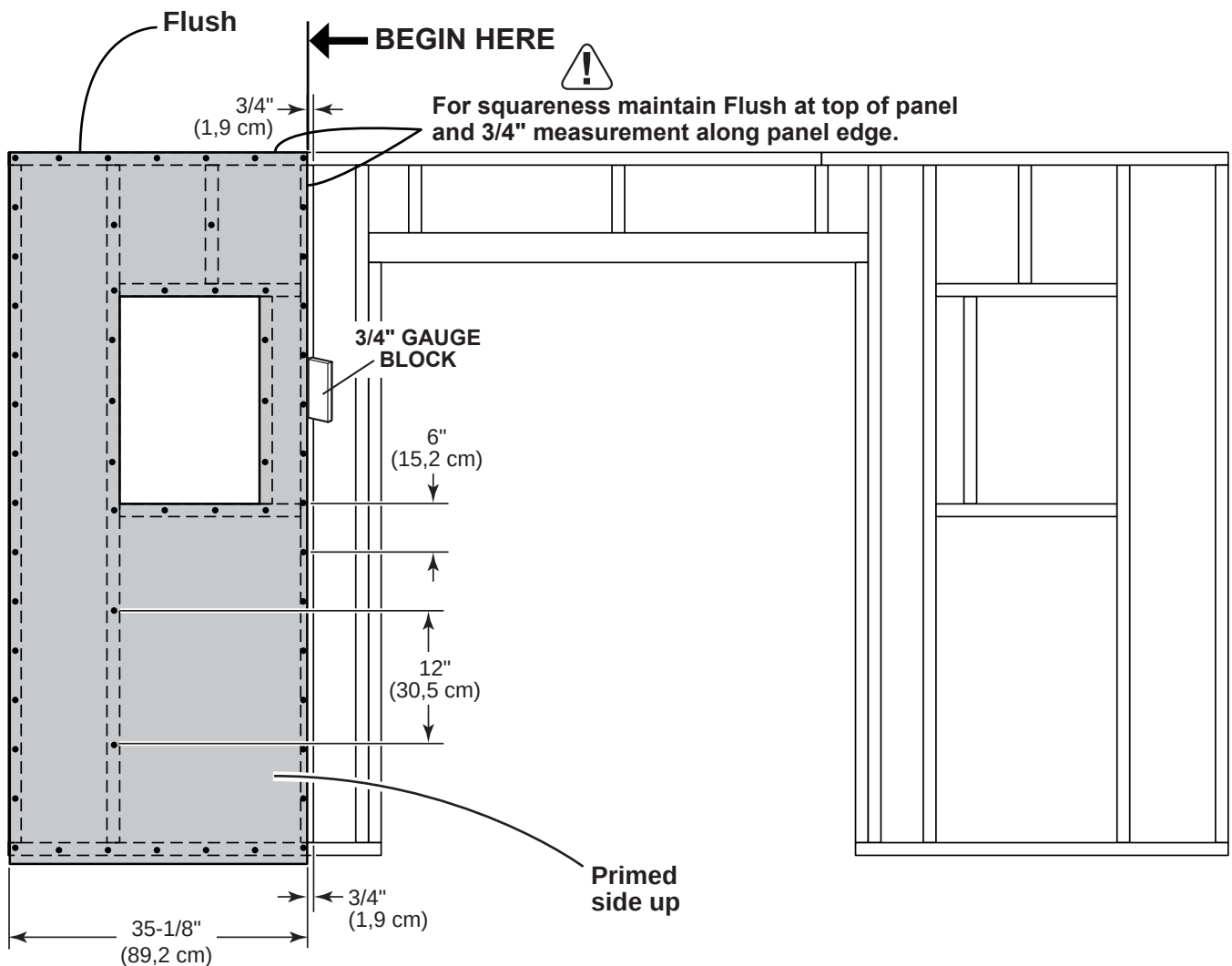


**3/4" GAUGE
BLOCK**



✓ **BEGIN**

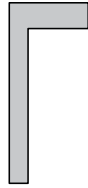
- 1 Place left **35-1/8" x 84"** panel onto wall frame flush to top of frame with primed side up as shown. Use the gauge block to mark the 3/4" measurement on the wall stud. Secure panel with 2" nails 6" apart on edges and 12" apart inside panel.



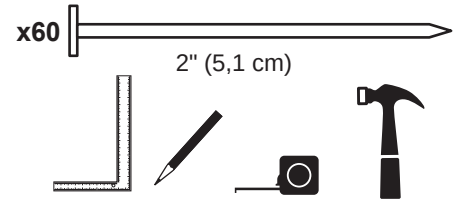
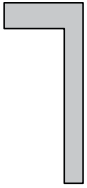
FRONT WALL PANELS

PARTS REQUIRED:

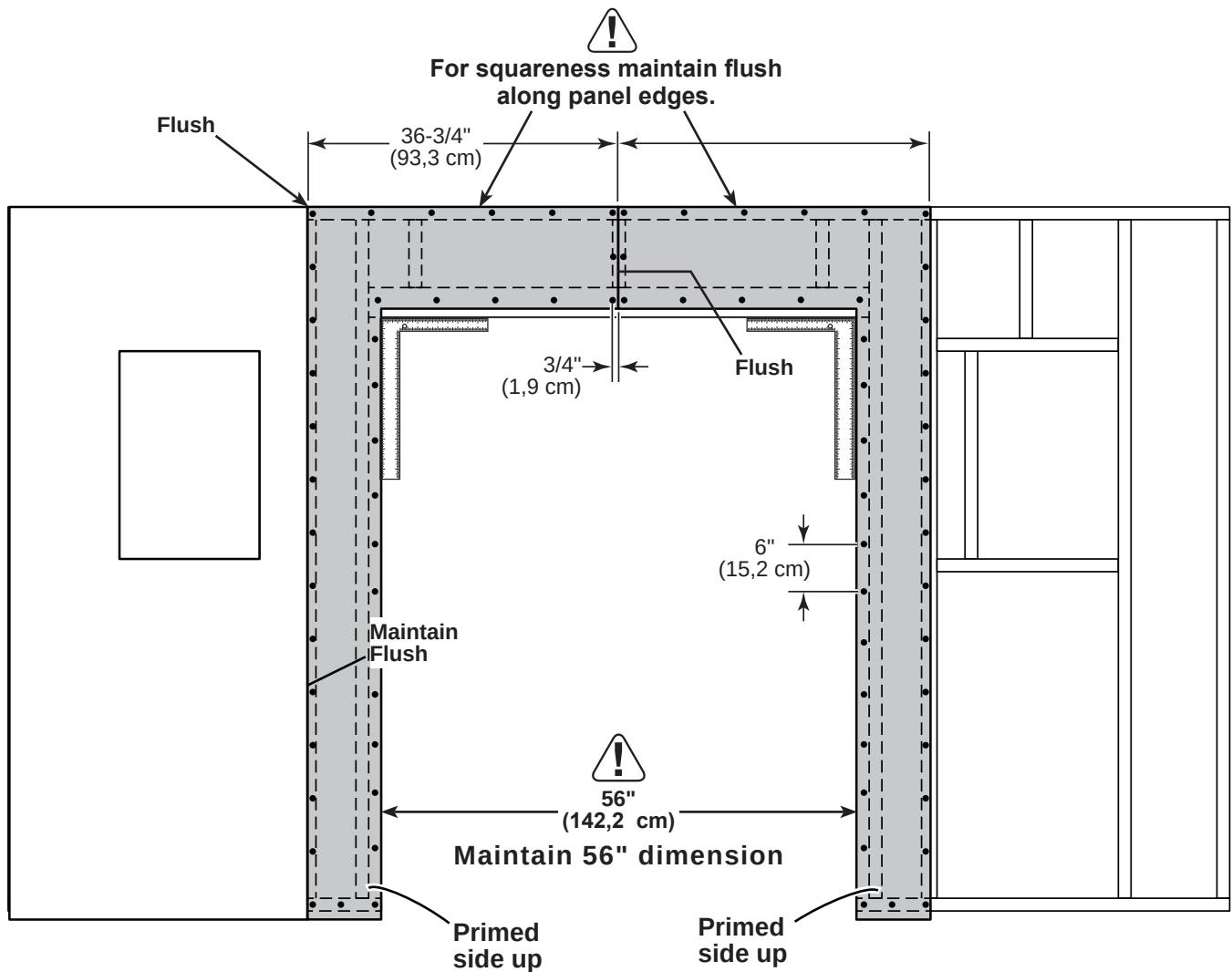
36-3/4 x 84"
(93,3 x 213,4 cm)
x1 LEFT



36-3/4 x 84"
(93,3 x 213,4 cm)
x1 RIGHT



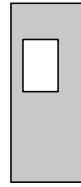
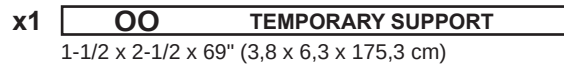
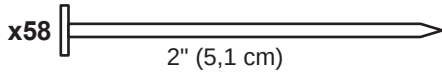
- 2** Place left **36-3/4" x 84"** panel onto wall frame flush to top of frame with primed side up. Ensure panel maintains flush along edge and are flush to top of installed panel as shown. Secure panel with 2" nails 6" apart apart on edges.



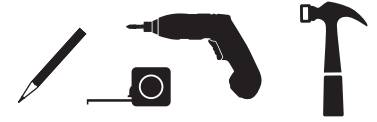
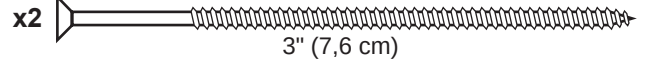
- 3** Repeat **Step 2** to attach the right **36-3/4" x 84"** door panel.

FRONT WALL PANELS

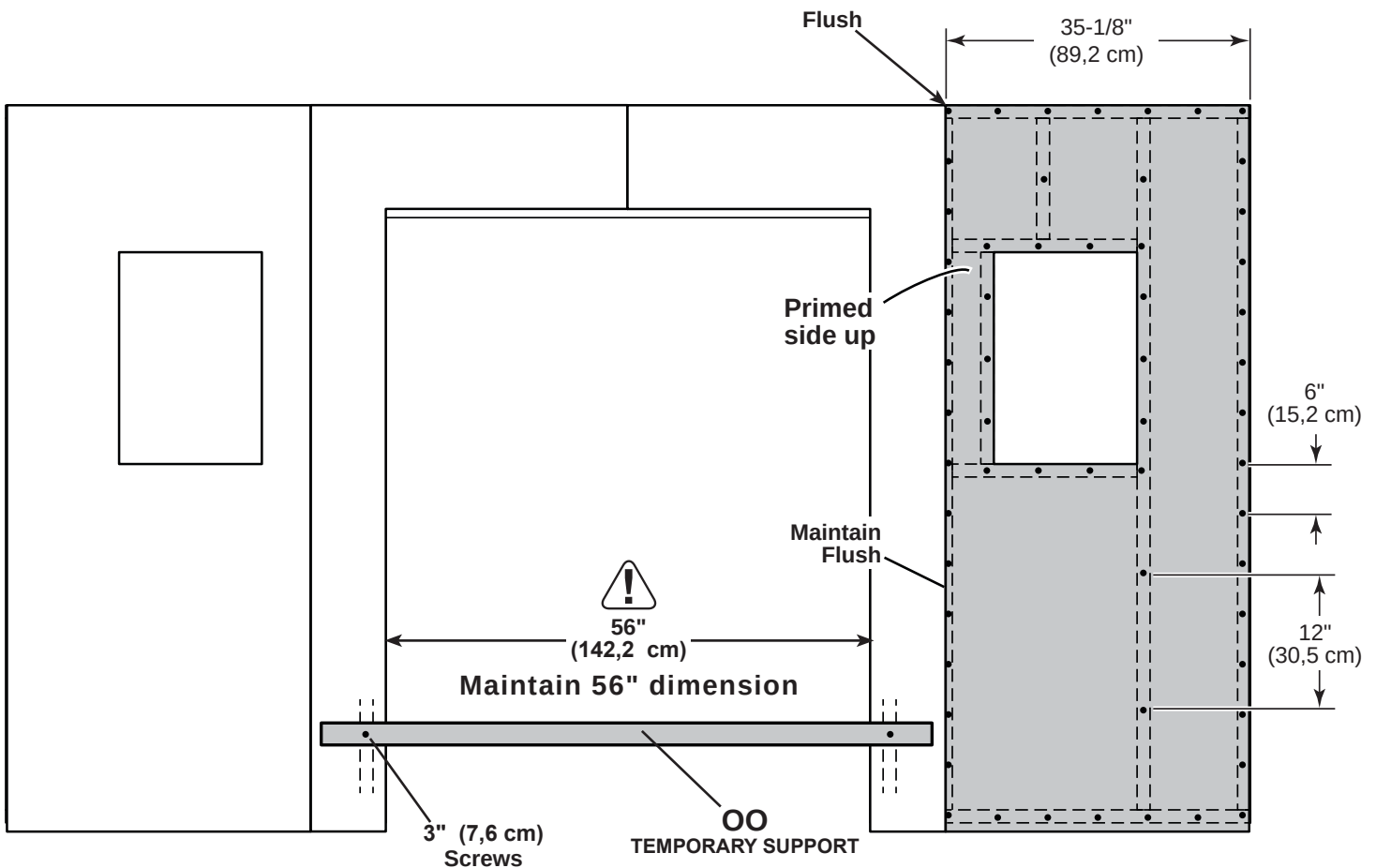
PARTS REQUIRED:



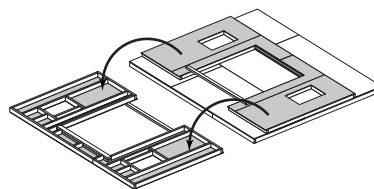
35-1/8 x 84"
(89,2 x 213,4 cm)
x1 RIGHT



- 4 Place right **35-1/8" x 84"** panel onto wall frame primed side up. Ensure panel maintains flush along edge and is flush to top of installed panel as shown. Secure panel with 2" nails 6" apart on edges and 12" apart inside panel.
- 5 Use OO as a temporary support brace to hold 56" measurement. Attach OO with two 3" screws into studs as shown.



- 6 Carefully flip the front wall over.



- 7 You have finished building your front wall.

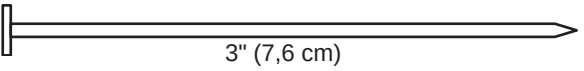
BACK WALL FRAME

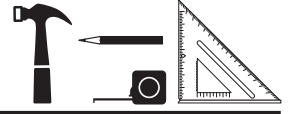
PARTS REQUIRED:

x2 **SP** 2 x 4 x 48" (5,1 x 10,2 x 121,9 cm)

x7 **TK** 2 x 4 x 80" (5,1 x 10,2 x 203,2 cm)

x2 **TP** 2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)

x32  3" (7,6 cm)

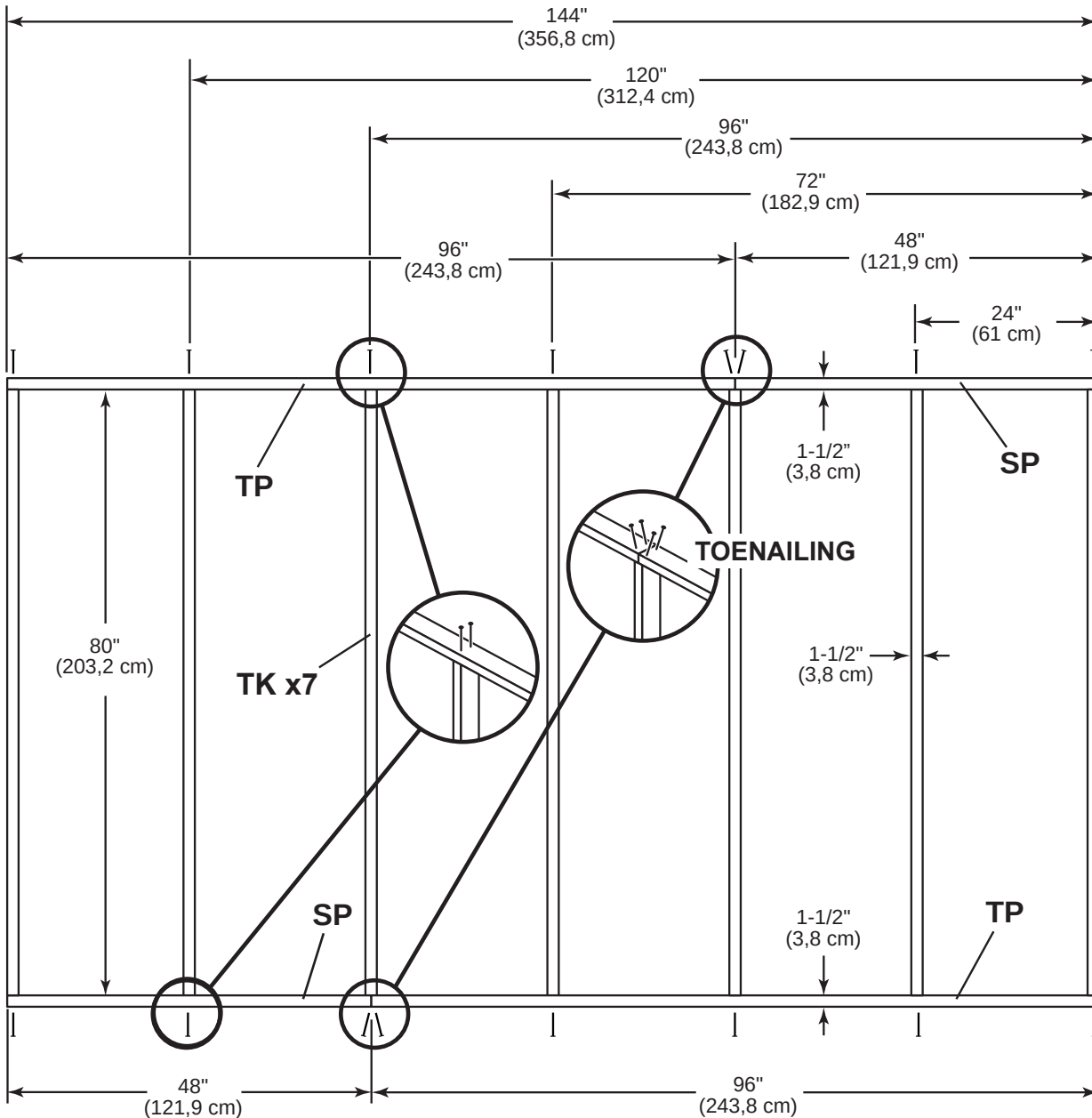
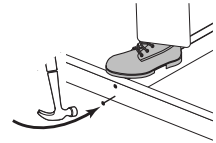


✓ BEGIN

1 Orient parts on edge on floor. Measure and mark.

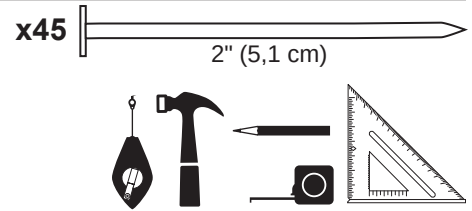
2 Use two 3" nails at each mark and four 3" nails at seams

 **HINT:**
For easier nailing
stand on frame.



BACK WALL PANELS

PARTS REQUIRED:



Ensure your wall frame is square by installing one panel and squaring frame.

- 3** Place **48 x 84"** panel onto wall frame flush to top of frame with primed side up as shown.

Use the gauge block to mark the 3/4" measurement on the wall stud. Secure panel with two 2" nails in the corners (**Fig. A**).

- 4** Move to the opposite end. Using the long edge of the panel as a lever move the panel side-to-side until you have a 3/4" measurement on the wall stud. Secure corner with two 2" nails (**Fig. B**).

- 5** Nail the panel using 2" nails 6" apart on edges and 12" apart inside panel.

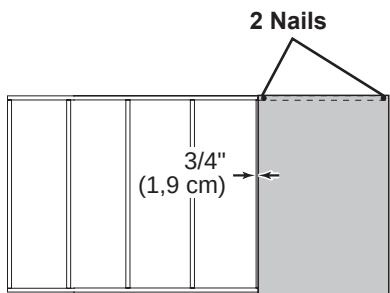


Fig. A

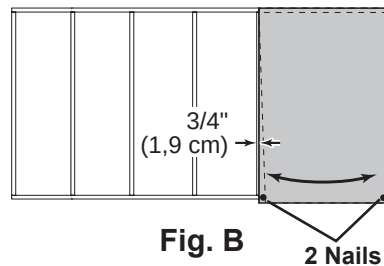
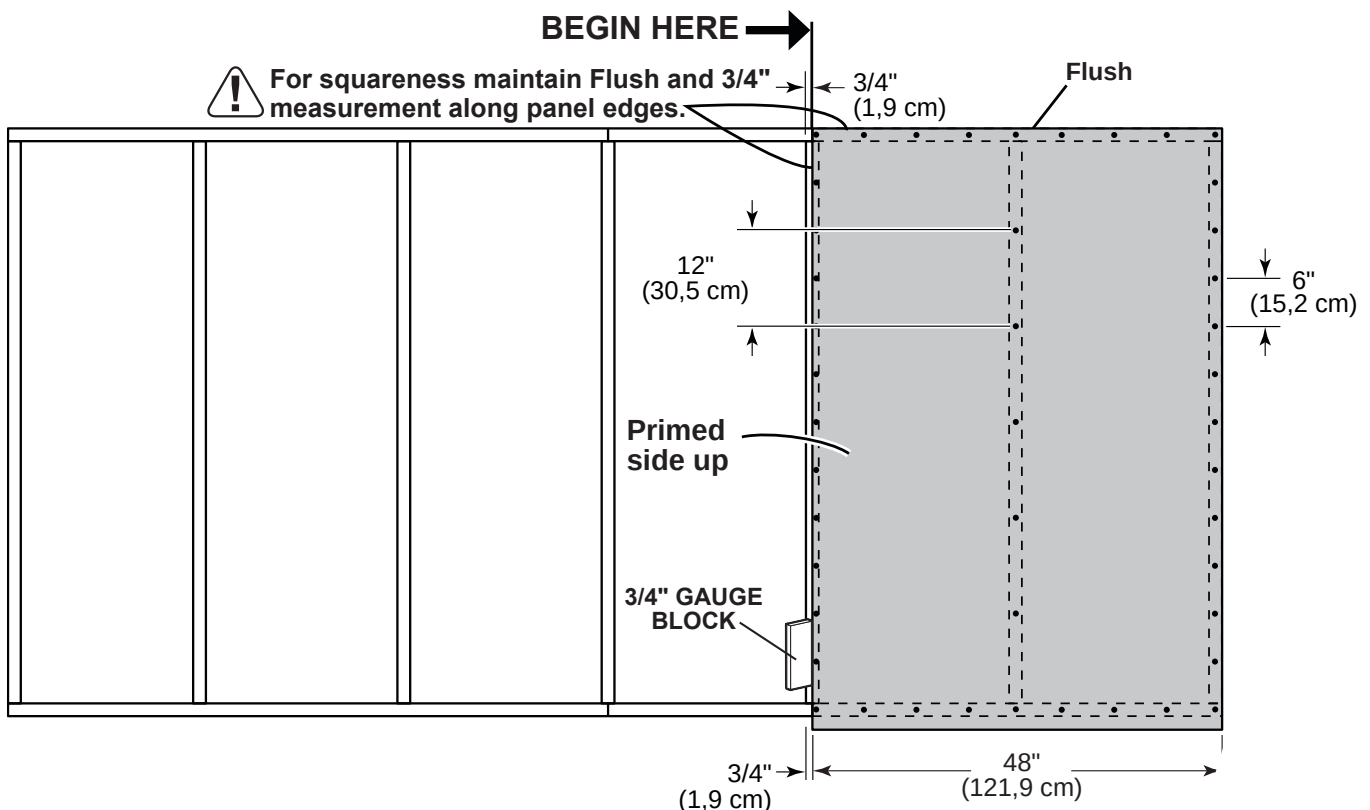


Fig. B



BACK WALL PANELS

PARTS REQUIRED:

x2

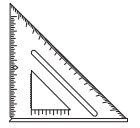
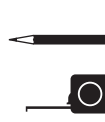
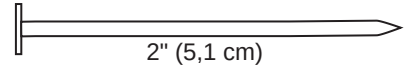


48 x 84"
(121,9 x 213,4 cm)



3/4" GAUGE
BLOCK

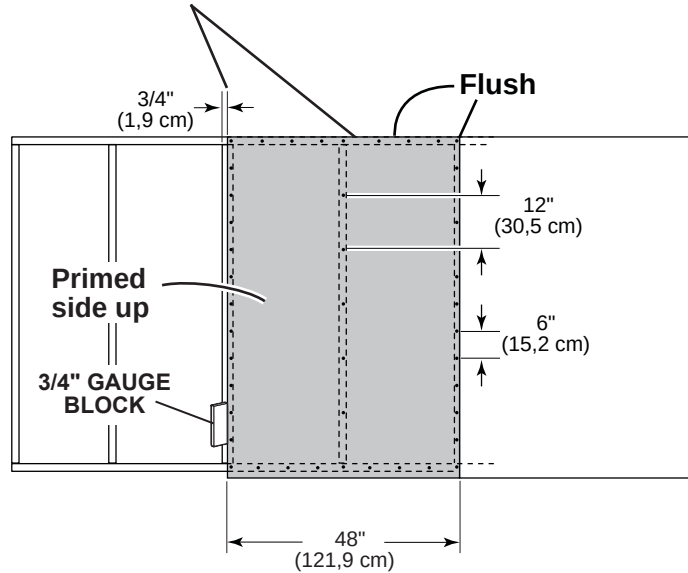
x90



For squareness maintain flush and 3/4" measurement along panel edges.

- 6** Place center **48" x 84"** panel on frame as shown with primed side facing up.

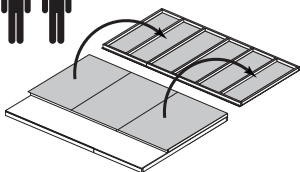
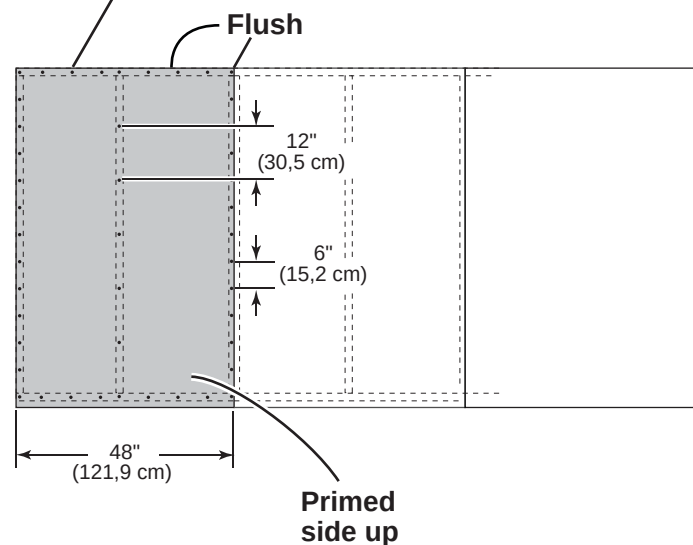
Nail using 2" nails 6" apart on edges and 12" apart inside panel.



For squareness maintain flush along panel edges.

- 7** Place end **48" x 84"** panel on frame as shown with primed side facing up.

Nail using 2" nails 6" apart on edges and 12" apart inside panel.



- 8** Carefully flip the back wall over.



FINISH

9

You have finished building your back wall.

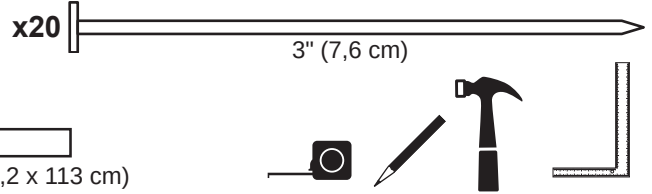
GABLE END WALLS

PARTS REQUIRED:

x6 **TK**
2 x 4 x 80" (5 x 10,2 x 203,2 cm)

x2 **YFA**
2 x 4 x 68-1/2" (5,1 x 10,2 x 174 cm)

x2 **STL**
2 x 4 x 44-1/2" (5,1 x 10,2 x 113 cm)

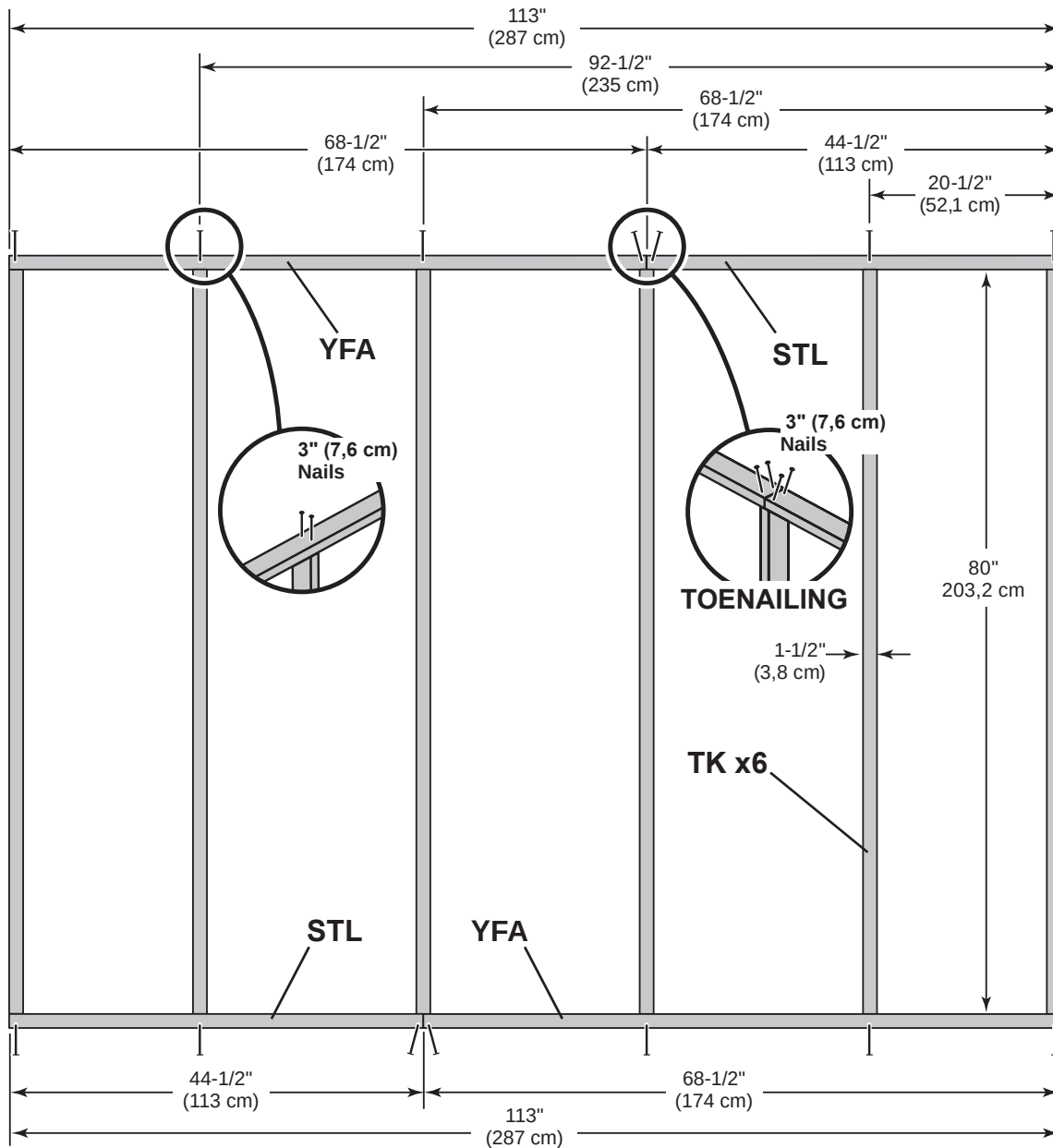


 **YOU WILL BUILD TWO GABLE END WALLS.**

✓ **BEGIN**

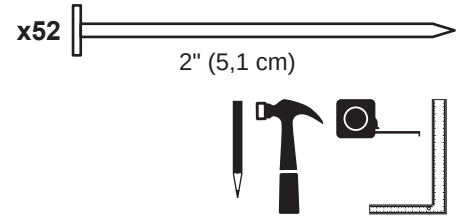
1 Orient parts on edge on floor. Measure and mark.

2 Use two 3" nails at each mark.

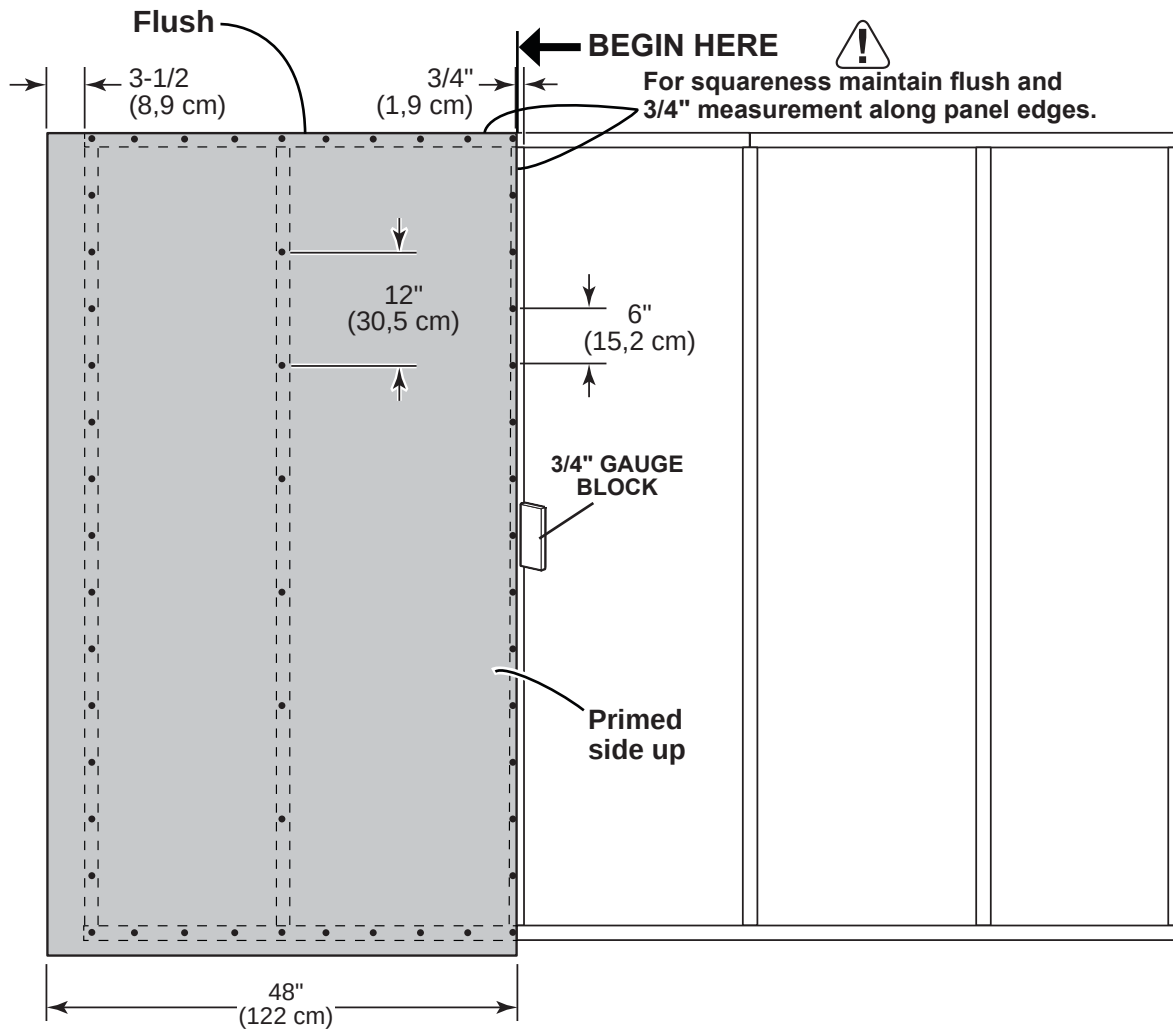


GABLE END WALLS

PARTS REQUIRED:



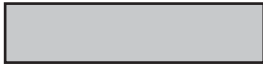
- 2 Place 48" x 84" panel with primed side up onto frame flush at top and with a 3/4" gap on right side.
Maintain 3/4" measurement along edge.
- 3 Secure panel to frame using 2" (5,1 cm) nails 6" (15,2 cm) apart along edges.



GABLE END WALLS

PARTS REQUIRED:

x1



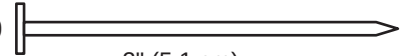
23-7/8 x 84"
(60,6 x 213,4 cm)

x1



48 x 84"
(122 x 213,4 cm)

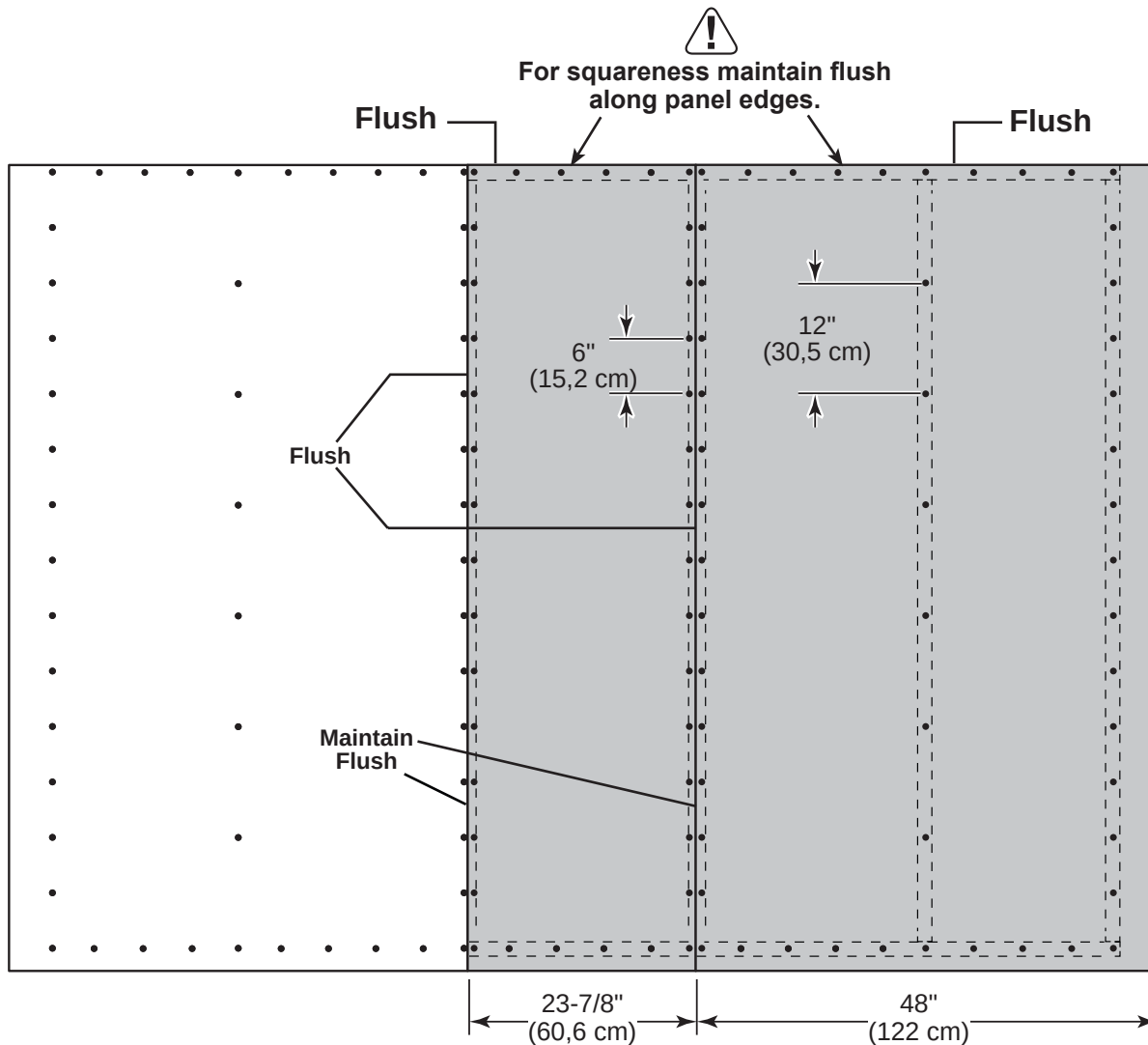
x90



2" (5,1 cm)

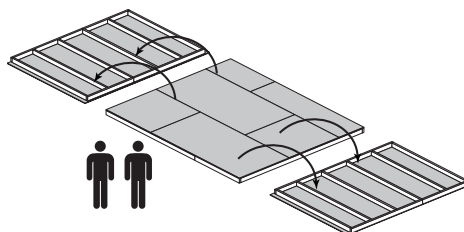


- 4 Place **23-7/8" x 84"** primed side up and flush with installed **48" x 84"** panel edge. Ensure panel is flush at top. Secure using 2" (5,1 cm) nails 6" (15,2 cm) apart on edges.
- 5 Place **48" x 84"** primed side up and flush with installed **23-7/8" x 84"** panel edge. Ensure panel is flush at top. Secure using 2" (5,1 cm) nails 6" (15,2 cm) apart on edges and 12" (30,5 cm) apart on inside of panel.



- 6 Carefully flip the gable end wall over.

- 7 Repeat **Steps 1-6** to build another gable end wall.



- 8 You have finished building your two gable end walls.

BACK WALL INSTALLATION

PARTS REQUIRED:

x1 **OO** TEMPORARY SUPPORT
1-1/2 x 2-1/2 x 69" (3,8 x 6,3 x 175,3 cm)

x12 3" (7,6 cm)
x2 3" (7,6 cm)
x25 2" (5,1 cm)

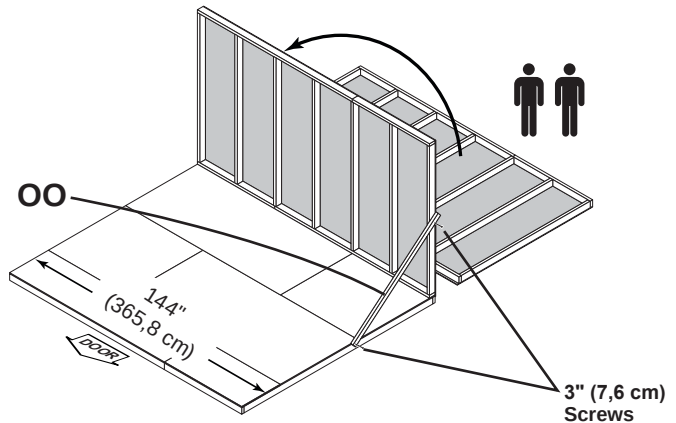


BEGIN

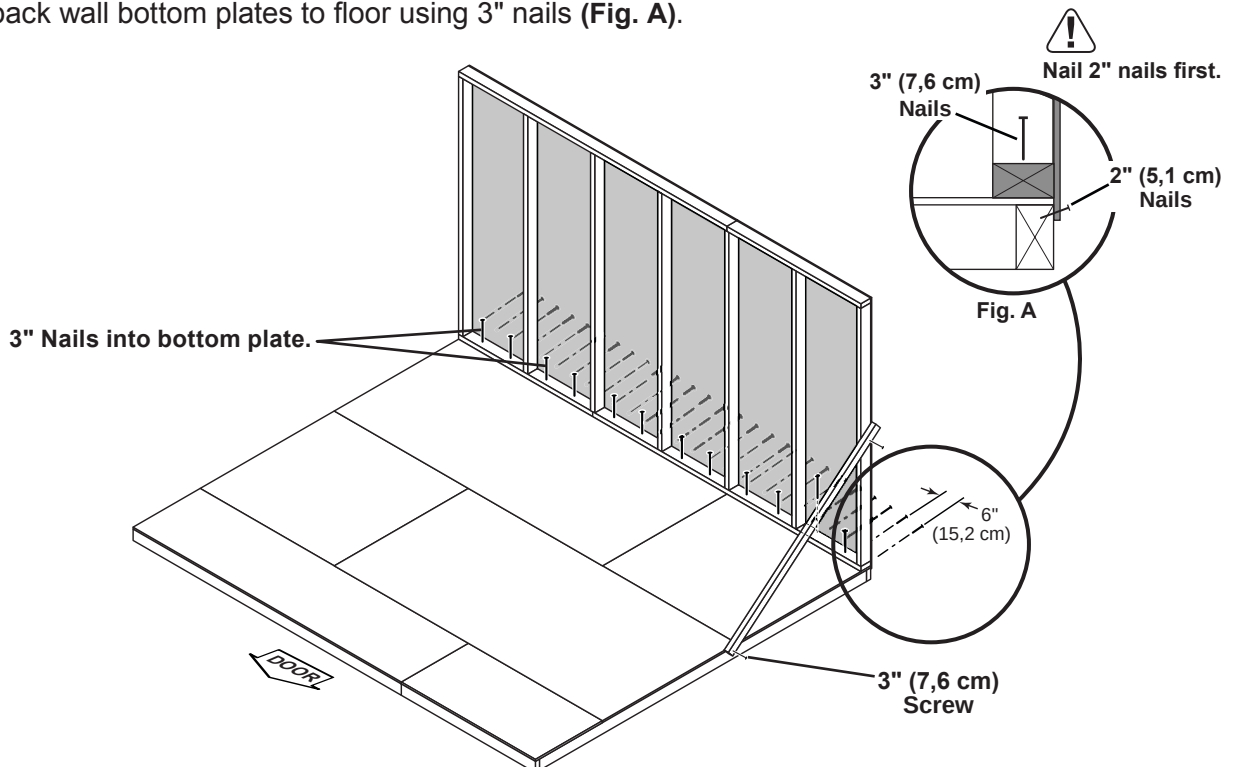
Stand back wall on floor.



- 1 Center back wall assembly on the 144" (365,8 cm) floor dimension.
- 2 Use **OO** as a temporary brace. Secure with two 3" screws.



- 3 First, nail lower edge of panel to floor frame using 2" nails 6" apart. Angle nail to hit floor frame (**Fig. A**).
- 4 Secure back wall bottom plates to floor using 3" nails (**Fig. A**).

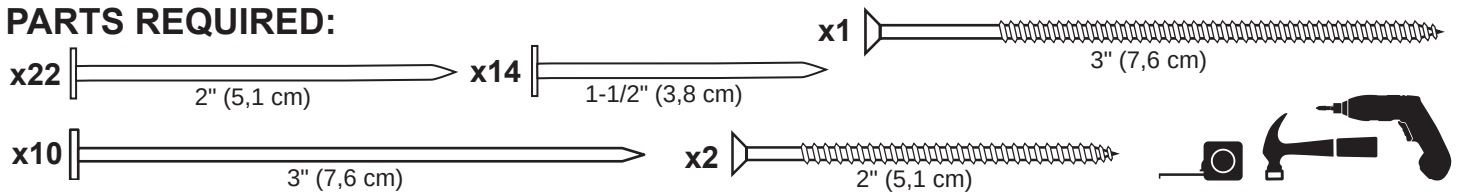


FINISH

- 5 You have finished standing your back wall.

GABLE END WALL INSTALLATION

PARTS REQUIRED:



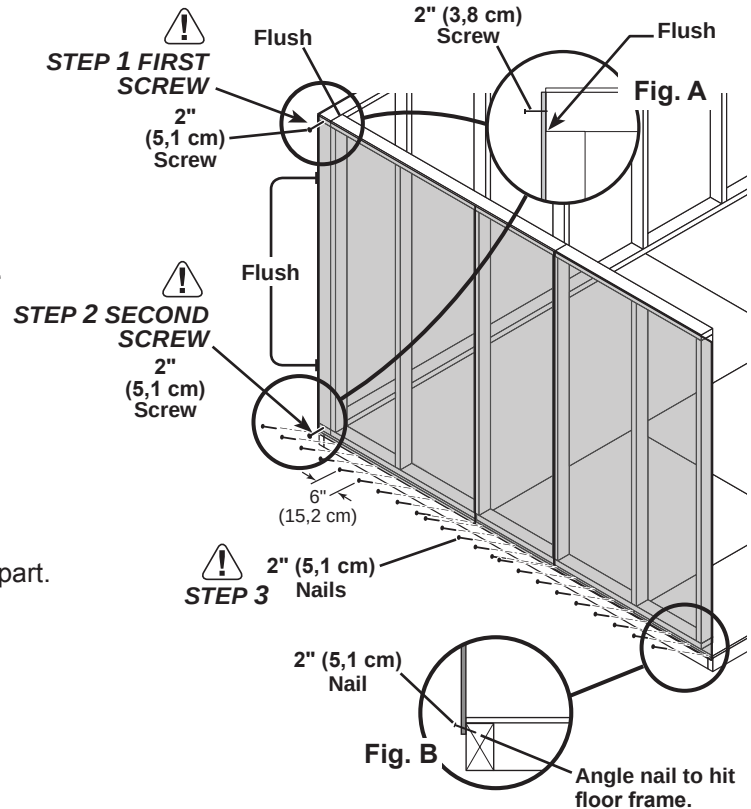
✓ BEGIN

Stand gable end wall on floor.

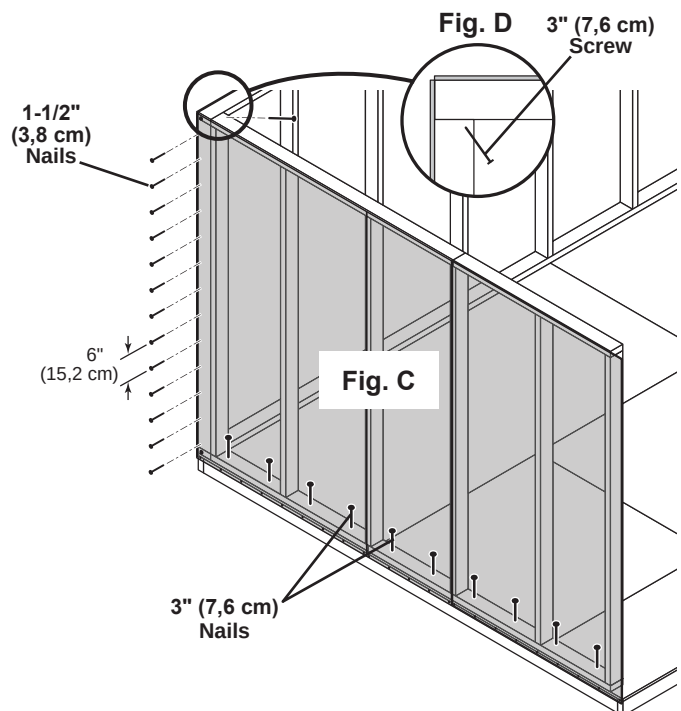


⚠ It is important to secure the gable end wall in the following order:

- 1 Set gable end wall on floor and secure top of wall using one 2" screw into top plate (**Fig A**).
- ⚠ **ENSURE TOP OF WALL FRAMES ARE FLUSH.** ⚠
- 2 Move to the bottom of gable end wall and secure bottom of wall using one 2" screw into eave wall bottom plate (**Fig A**).
- 3 Nail lower edge of panels to floor using 2" nails 6" apart. Angle nail to hit floor frame (**Fig. B**).
- ⚠ **ENSURE GABLE AND BACK WALL PANELS ARE FLUSH BEFORE SECURING.**



- 4 Nail gable wall panel to back wall stud using 1-1/2" nails 6" apart (**Fig. C**).
- 5 Secure gable wall to floor using 3" nails (**Fig. C**).
- 6 Secure gable wall top frame 2 x 4 using one 3" screw toe-screwed into eave wall frame at an angle as shown (**Fig. D**).
- 7 Remove temporary support **OO**.

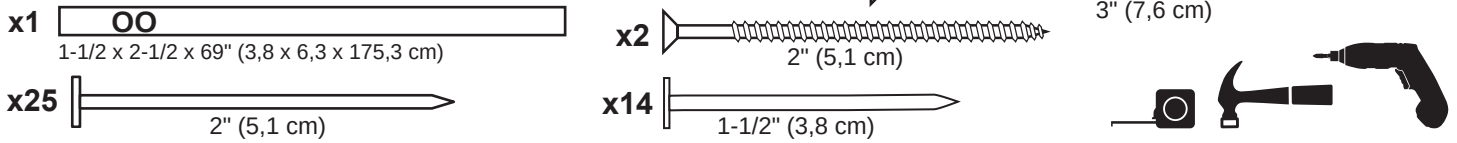


FINISH

- 8 You have finished standing your gable end wall

FRONT WALL INSTALLATION

PARTS REQUIRED:



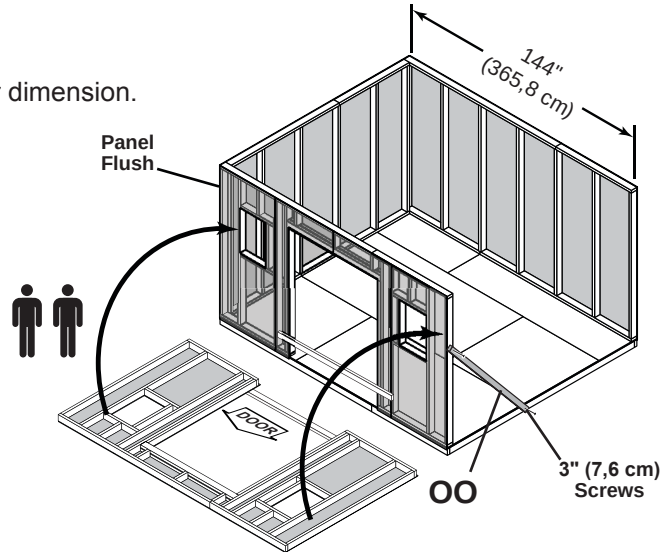
✓ BEGIN

Stand front wall on floor.



1 Center front wall assembly on the 144" (365,8 cm) floor dimension.

2 Use **OO** as a temporary brace.
Secure with two 3" screws.



3 Secure top of wall using one 2" screw into top plate (**Fig A**).

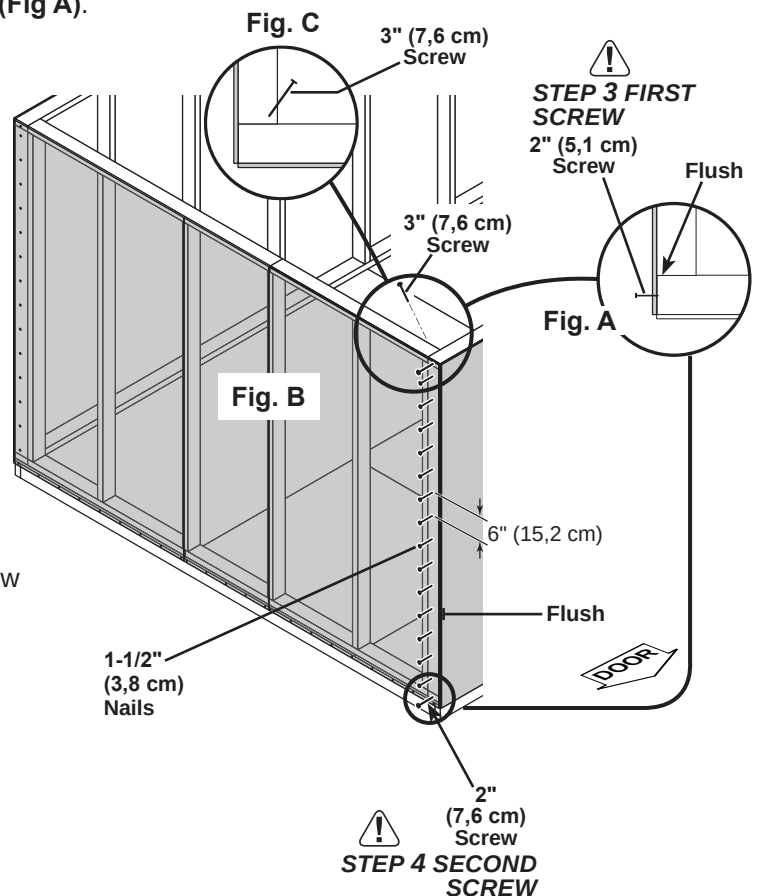
⚠ BE SURE TOP OF WALL FRAMES ARE FLUSH. ⚠

4 Move to the bottom of gable end wall and secure bottom of wall using one 2" screw into front wall bottom plate (**Fig A**).

5 Nail gable wall panel to front wall stud using 1-1/2" nails 6" apart (**Fig. B**).

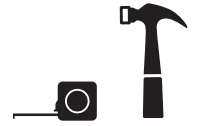
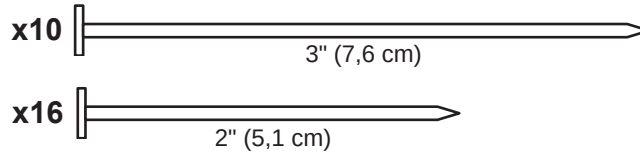
⚠ ENSURE GABLE AND FRONT WALL PANELS ARE FLUSH BEFORE SECURING.

6 Secure gable wall top frame 2 x 4 using one 3" screw toe-screwed into eave wall frame at an angle as shown (**Fig. C**).



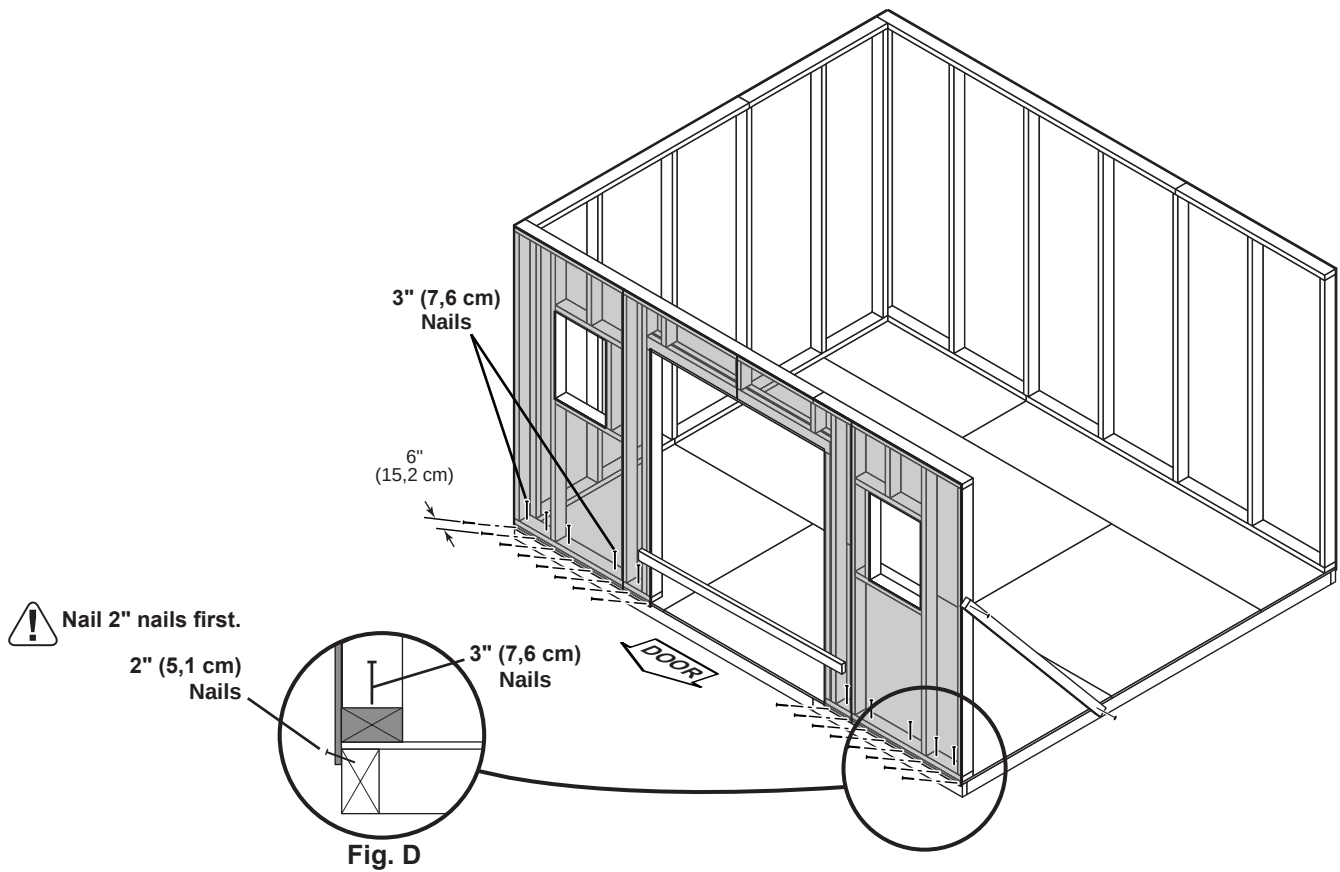
FRONT WALL INSTALLATION

PARTS REQUIRED:



7 Nail lower edge of panels to floor frame using 2" nails 6" apart. Angle nail to hit floor frame (**Fig. D**).

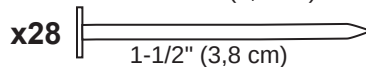
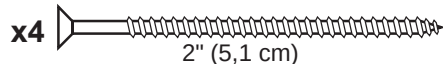
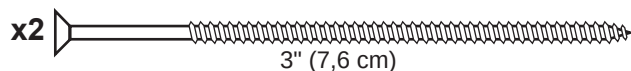
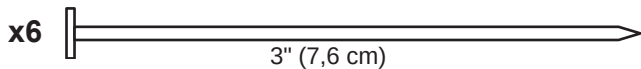
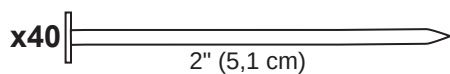
8 Secure front wall bottom plates to floor using 3" nails (**Fig. D**).



9 You have finished standing your front wall.

GABLE END WALL INSTALLATION

PARTS REQUIRED:



✓ BEGIN

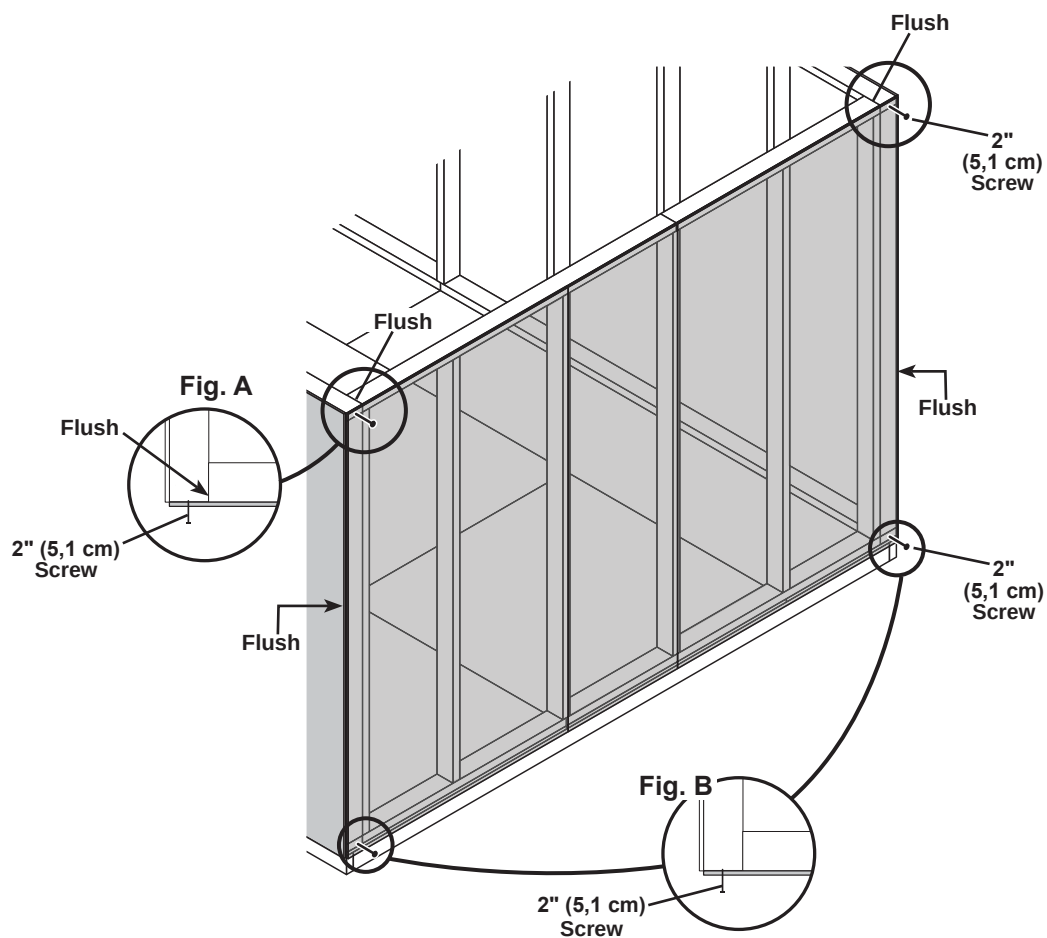
Remove Temporary Supports and stand gable end wall on floor.

⚠ It is important to secure the gable end wall in the following order:



1 Set second gable wall on floor and secure using one 2" screw on each side (Fig A).

⚠ ENSURE TOP WALL FRAMES ARE FLUSH. ⚠



2 Move to the bottom of gable end wall and secure bottom of wall using one 2" screw into front wall bottom plate (Fig B).

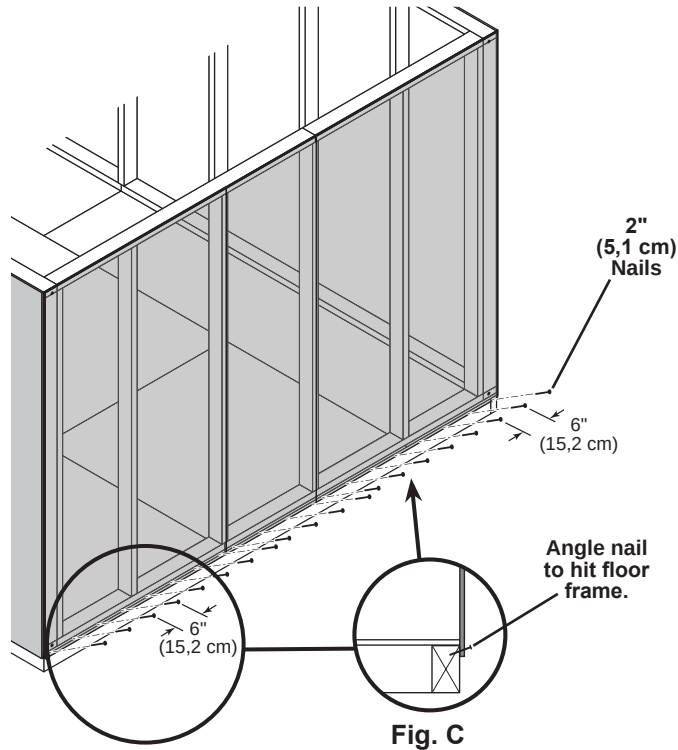
⚠ ENSURE WALL PANELS ARE FLUSH BEFORE SECURING.

GABLE END WALL INSTALLATION

PARTS REQUIRED:



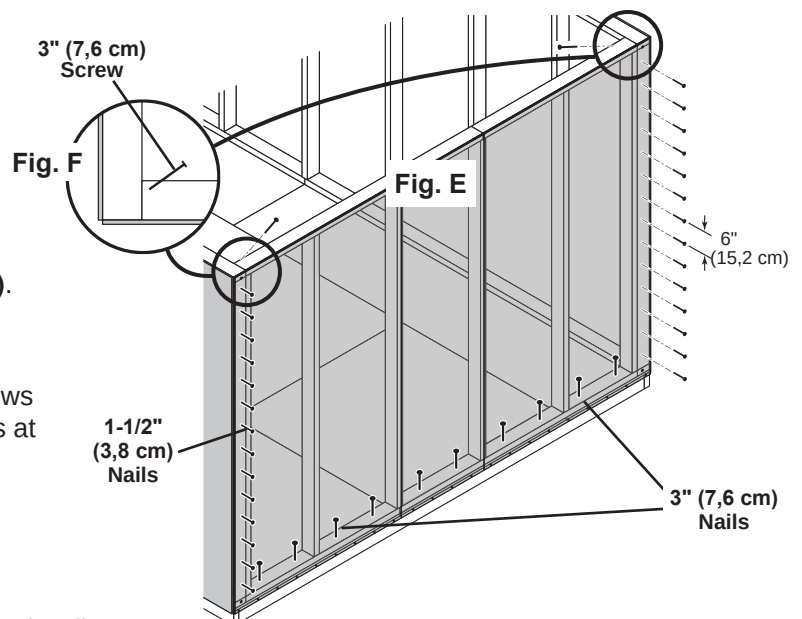
- 3** Nail lower edge of panels to floor using 2" nails 6" apart. Angle nail to hit floor frame (**Fig. C**).



- 4** Nail gable wall panels to front and back wall studs using 1-1/2" nails 6" apart (**Fig. E**).

- 5** Secure gable wall to floor using 3" nails (**Fig. E**).

- 6** Secure gable wall top frame 2 x 4 using 3" screws toe-screwed at each corner into top wall frames at an angle as shown in (**Fig. F**).



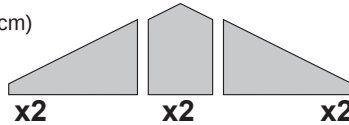
- 7** You have finished standing your second gable end wall.

GABLE PANELS

PARTS REQUIRED: x2 **RL**
2 x 4 x 24" (5,1 x 10,2 x 61 cm)

x2 **ECA** **TEMPORARY SUPPORT**
2 x 4 x 75-1/4" (5,1 x 10,2 x 191,1 cm)

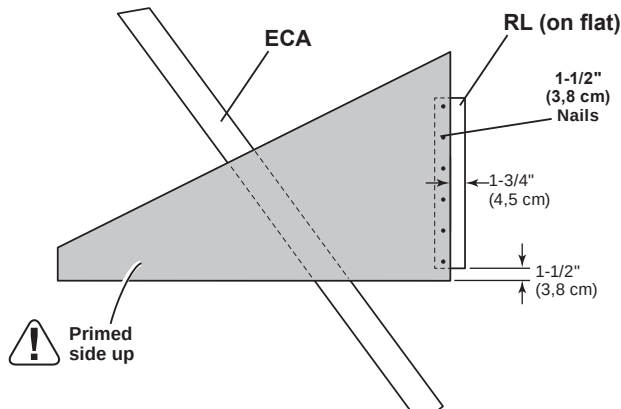
x16 1-1/2" (3,8 cm)



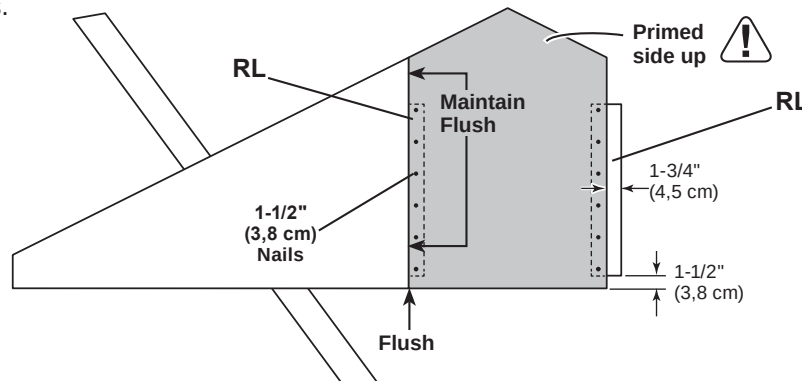
✓ BEGIN

1 You will build **TWO** assemblies. Orient **RL** and **ECA** on flat as shown.

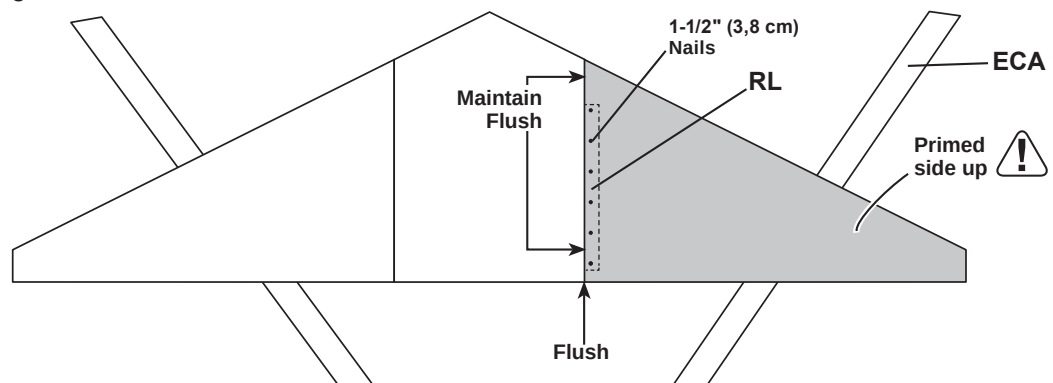
2 Place **LEFT** front gable panel as shown and secure using 1-1/2" nails.



3 Place second **RL** as shown. Place **MIDDLE** front gable panel flush to installed left panel. Ensure panels are flush. Secure panel to installed **RL** using 1-1/2" nails. Place second **RL** as shown under **MIDDLE** panel and secure using 1-1/2" nails.



4 Place **RIGHT** front gable panel flush to installed middle panel. Ensure panels are flush. Secure to **RL** using 1-1/2" nails.



5 Repeat **Steps 1-4** to build second gable panel.



FINISH

6 You have finished assembling your gable panels.

GABLE LADDERS

PARTS REQUIRED:

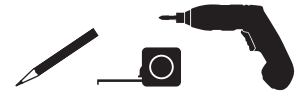
x16 **CLA**

2 x 4 x 4-7/8" (5,1 x 10,2 x 12,4 cm)

x8 **ECA**

2 x 3 x 75-1/4" (5,1 x 7,6 x 191,1 cm)

x72 3" (7,6 cm)



✓ BEGIN

- 1 Orient parts as shown (**Fig. A**).
You will build **FOUR** assemblies (**Fig. B**).
- 2 Arrange, measure and mark locations of four **CLA** as shown place **ECA** on top. Secure using 3" screws as shown (**Fig. A**). Ensure parts are flush along edges.

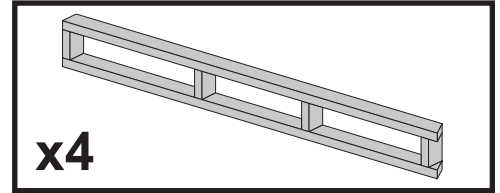
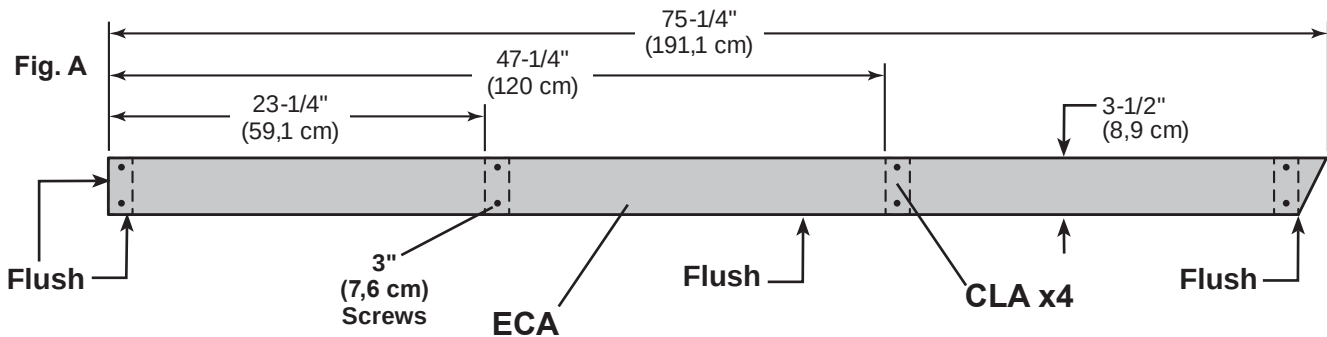
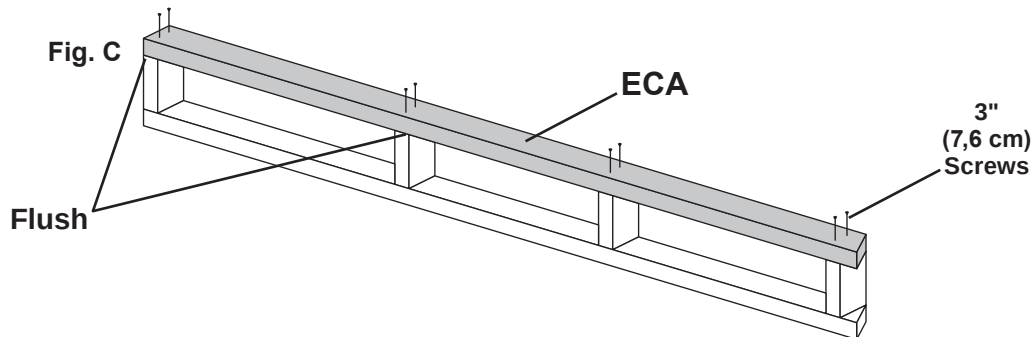


Fig. B

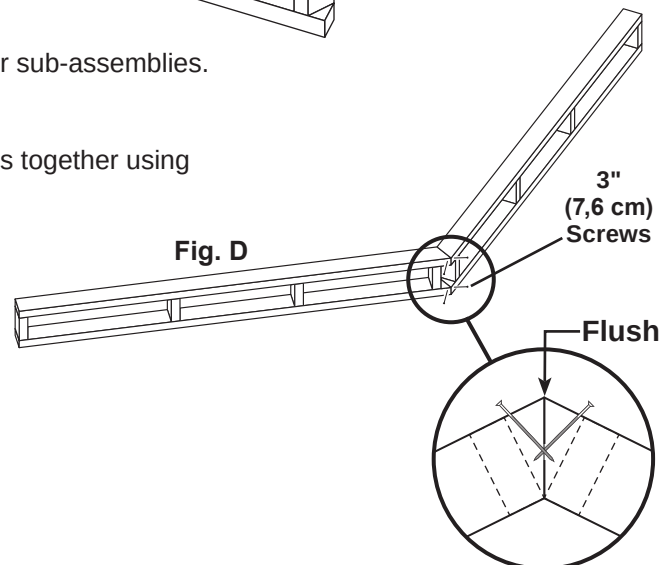


- 3 Flip over gable ladder sub-assembly and attach **ECA** to four **CLA** using 3" screws (**Fig. C**).



- 4 Repeat STEPS 2-3 to build three additional gable ladder sub-assemblies.

- 5 To complete gable ladder, toe-screw two sub-assemblies together using 3" screws (**Fig. D**).



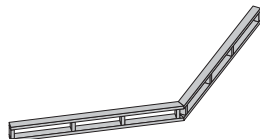
- 6 Repeat STEP 5 to build the other gable ladder.

GABLE ASSEMBLIES

PARTS REQUIRED:



x2 Gable Assemblies



x2 Ladder Assemblies

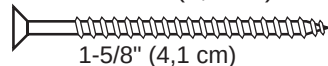
x4 **PVA**

2 x 4 x 5-7/8"
(5,1 x 10,2 x 14,9 cm)

x8

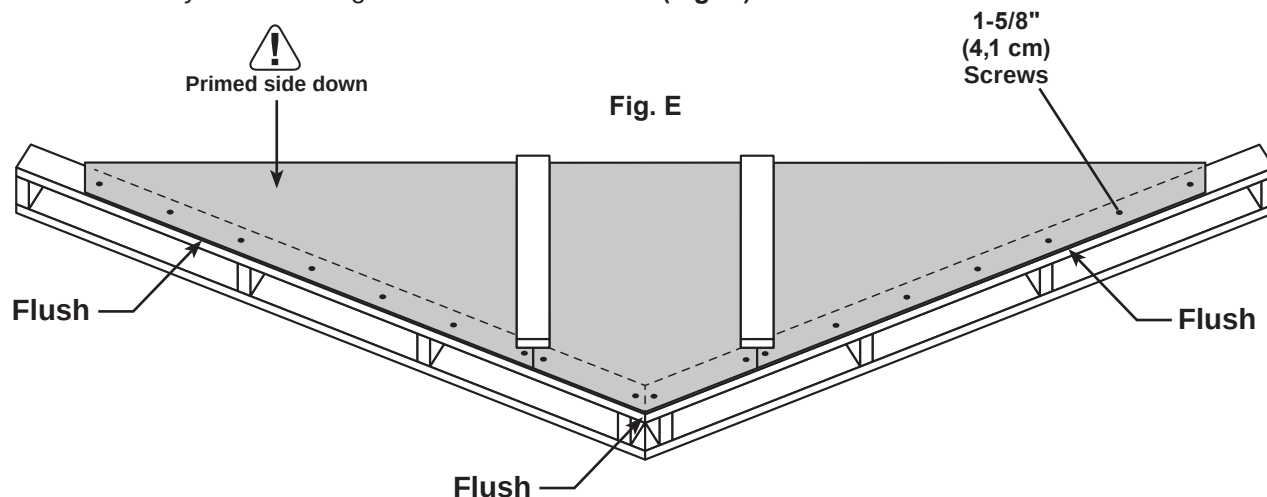


x36

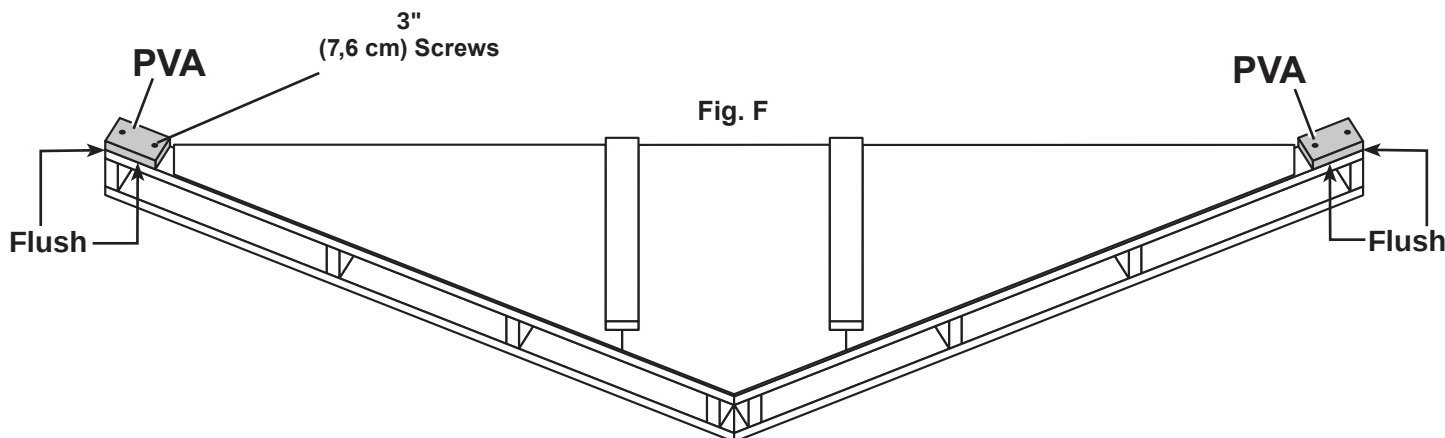


7 Orient gable and ladder assemblies as shown (**Fig. E**). You will build **TWO** complete assemblies.

8 Ensure gable panels are flush at peak of ladder and flush along top edge of ladder assembly. Secure using 1-5/8" screws as shown (**Fig. E**).



9 Attach **PVA** to ladder assembly using 3" screws (**Fig. F**).



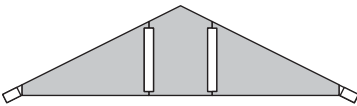
10 Repeat **Steps 7-9** to build the other gable assembly.



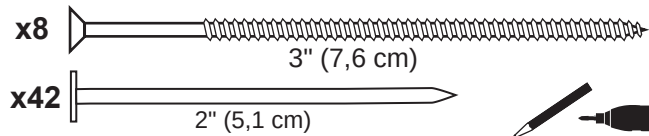
11 You have finished building two gable units.

GABLE UNITS

PARTS REQUIRED:



x2 Gable Units



It is important to secure the gable unit in the following order:

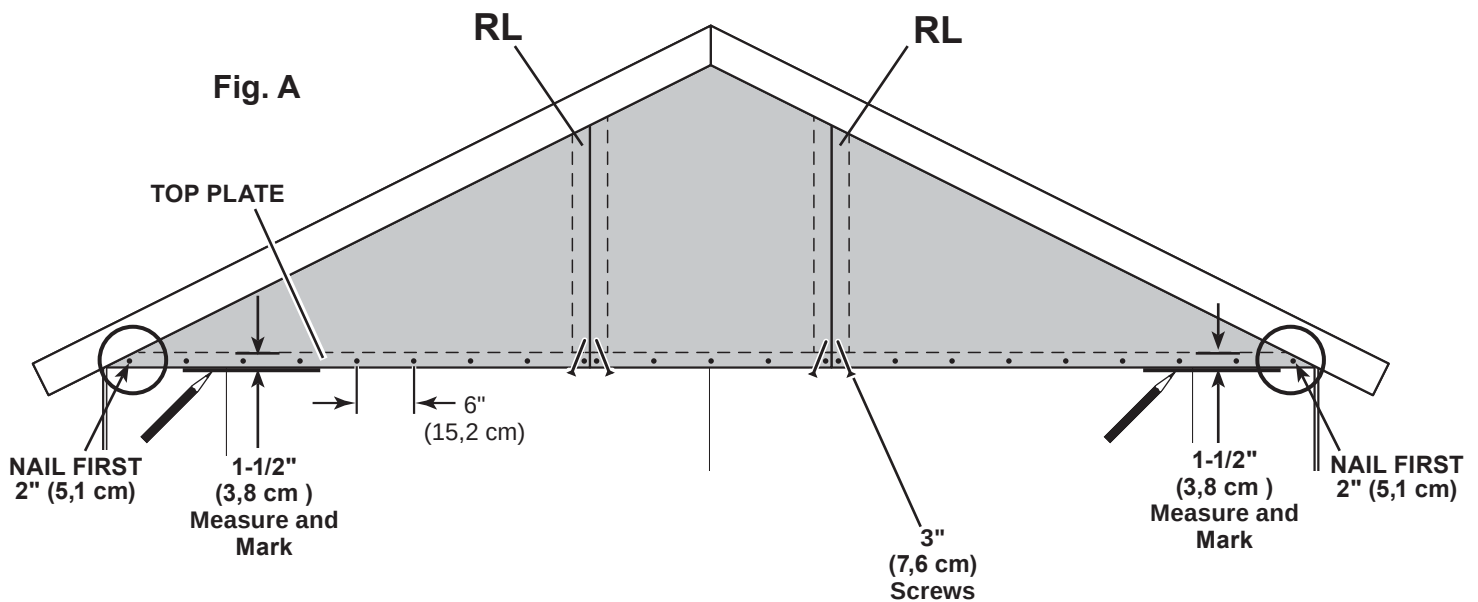
✓ BEGIN

- 1** Stand gable unit on gable wall top plate. Measure 1-1/2" down from top plate and mark at each side as shown. Hold secure with one 2" nail on each side as shown.

⚠ BE SURE GABLE UNIT IS CENTERED ON WALL BEFORE NAILING. ⚠

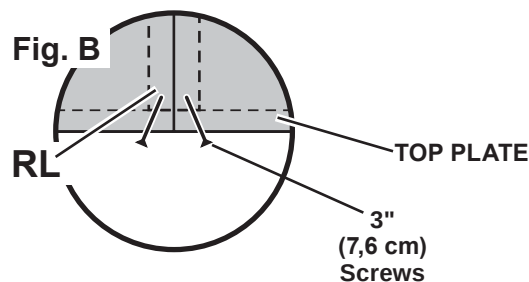
- 2** Continue nailing lower edge of panels into top plate using 2" nails 6" apart as shown

- 3** On the inside, secure gable unit with 3" screws toe-screwed into **RL** at an angle as shown in **(Fig. B)**.



- 4** Repeat **Steps 1-3** to attach back gable unit.

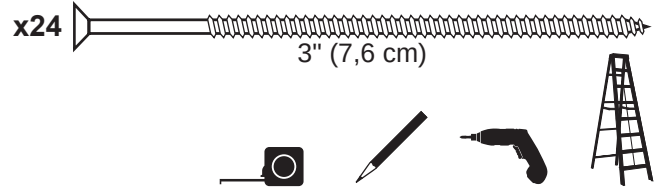
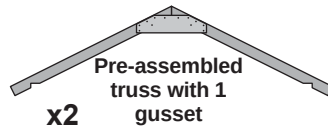
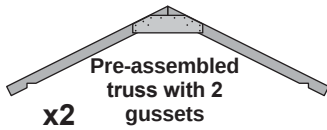
⚠ On the inside, secure gable with two 3" screws toe-screwed into **RL** at an angle as shown in **(Fig. B)**.



- 5** You have finished attaching your gable units.

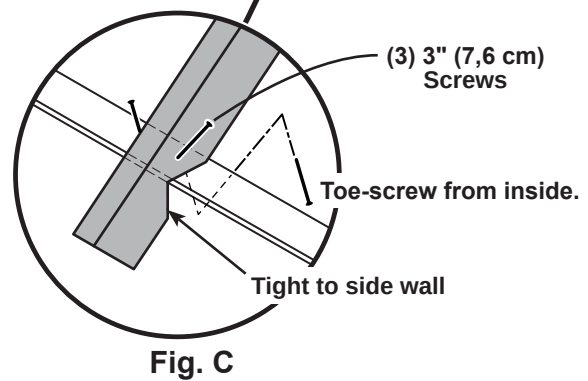
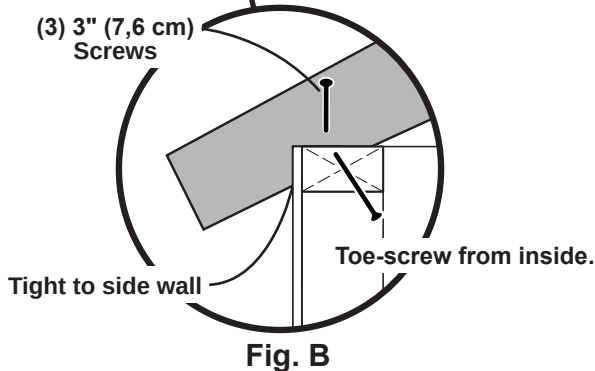
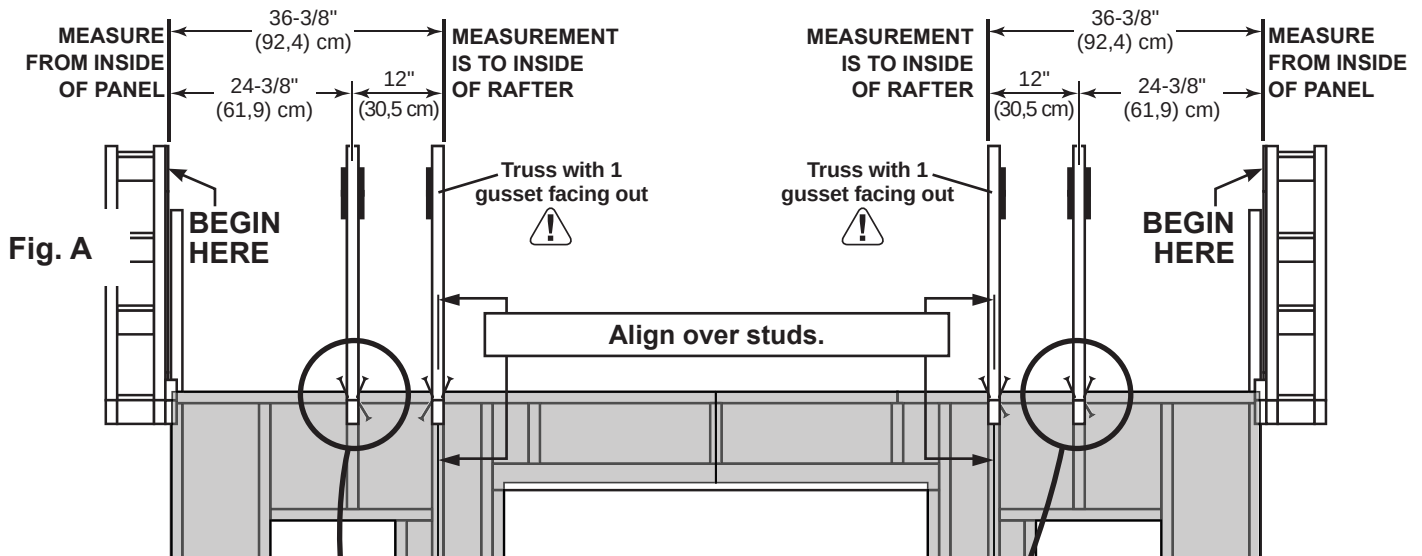
TRUSSES

PARTS REQUIRED:



✓ BEGIN

- 1 Rest first truss **with 2 gussets** on top plate, aligned over back wall stud and front wall window crippler at **24-3/8" measurement** from inside of gable panel. Ensure rafter notch is tight to side wall (**Fig. A, Fig B**). 
- 2 Secure rafter to top plate with one 3" screw from under top plate (**Fig. B, C**).
- 3 Continue securing rafter to top plate with two 3" screws above notch (**Fig. B, C**).
- 4 Rest second truss **with 1 gusset** on top plate, aligned over stud and at **36-3/8" measurement** from inside of gable panel. Ensure rafter notch is tight to gable wall (**Fig. B, Fig C**). Secure rafters with 3" screws (**Fig. A, Fig B**).



- 5 Repeat **Steps 1-4** to install trusses at opposite side.

FINISH

- 6 You have finished attaching your trusses.

DORMER WALL & OVERHANG FRAMES

PARTS REQUIRED:

x4 **KDA**

2 x 4 x 2-7/8"
(5,1 x 10,2 x 7,3 cm)

x2 **TM**

2 x 4 x 72" (5,1 x 10,2 x 180,7 cm)

x32

3" (7,6 cm)

x2 **KFA**

2 x 4 x 14-5/16" (5,1 x 10,2 x 36,4 cm)

x2 **KEA**

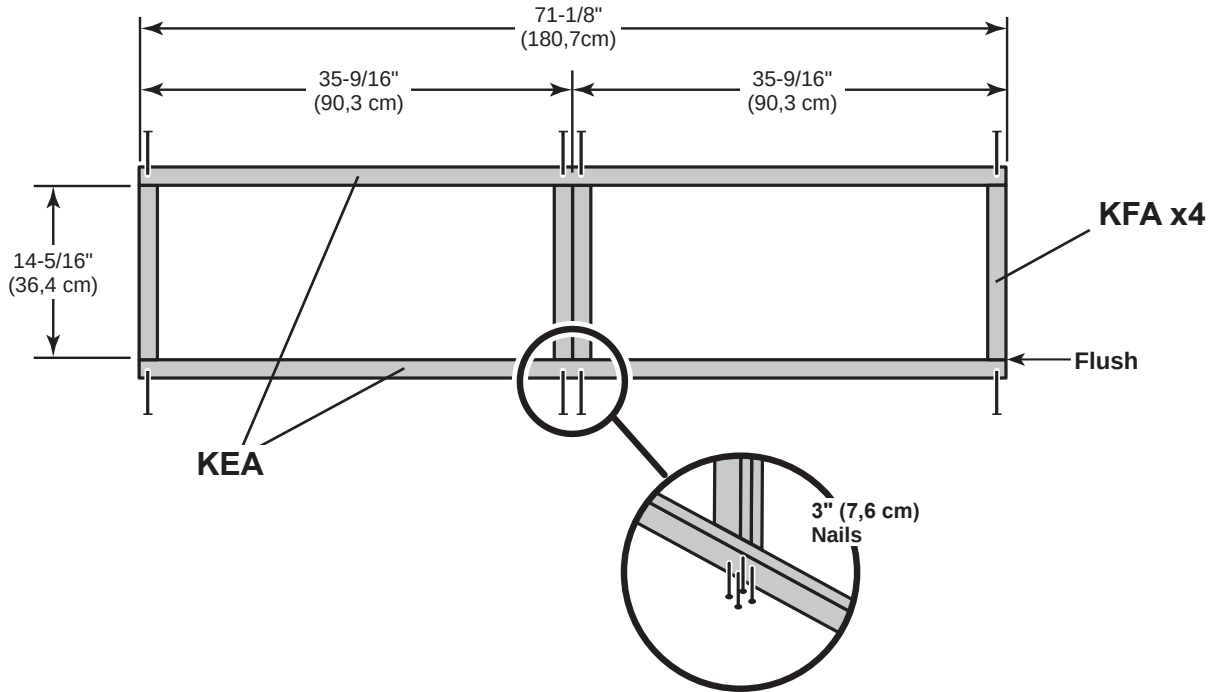
2 x 4 x 71-1/8" (5,1 x 10,2 x 180,7 cm)



✓ BEGIN

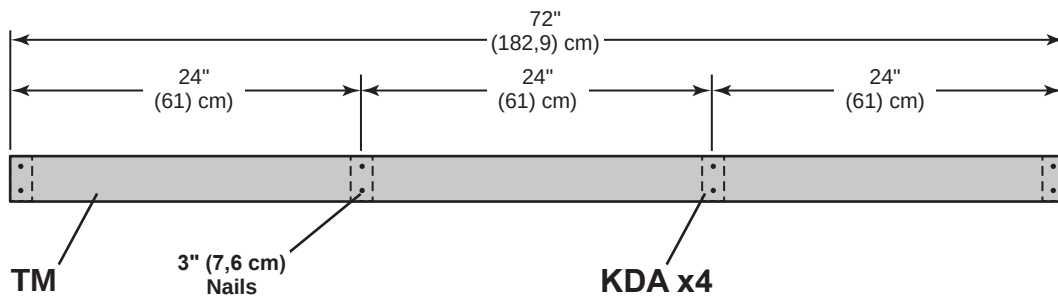
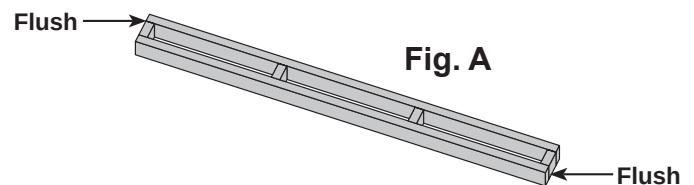
1 Orient parts on edge on floor. Measure and mark.

2 Use two 3" nails at each mark.



3 Orient **KDA** and **TM** overhang parts on edge on floor (**Fig. A**). Measure and mark.

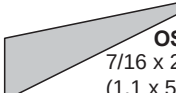
4 Use two 3" nails at each mark.

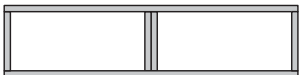


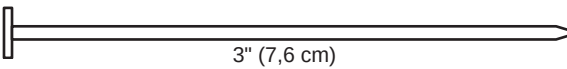
5 You have finished building your dormer wall and overhang frames.

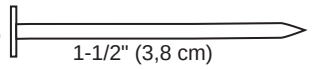
DORMER

PARTS REQUIRED:

x2  **OSB Panel**
7/16 x 20-3/16 x 61-1/4"
(1,1 x 51,3 x 155,6 cm)

x1  **Pre-assembled dormer wall frame**

x12  3" (7,6 cm)

x18  1-1/2" (3,8 cm)

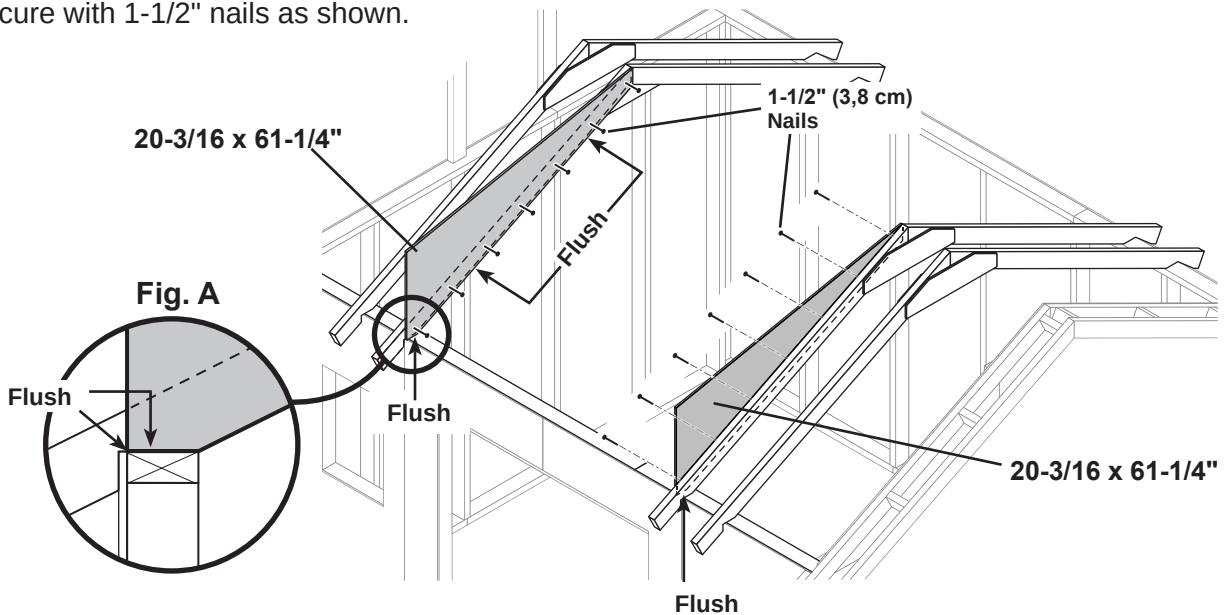


✓ BEGIN

1 Place 20-3/16" x 61-1/4" dormer inner panel flush to front wall top plate and resting on top plate. Ensure dormer panel is flush along bottom of rafter.



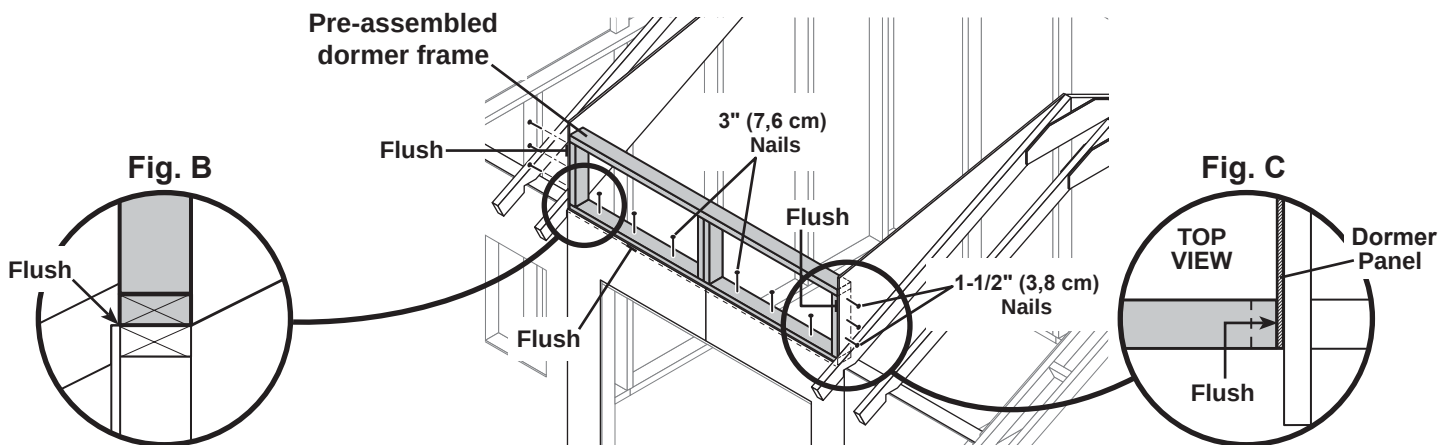
2 Secure with 1-1/2" nails as shown.



3 Repeat **Steps 1-2** to install opposite dormer panel.

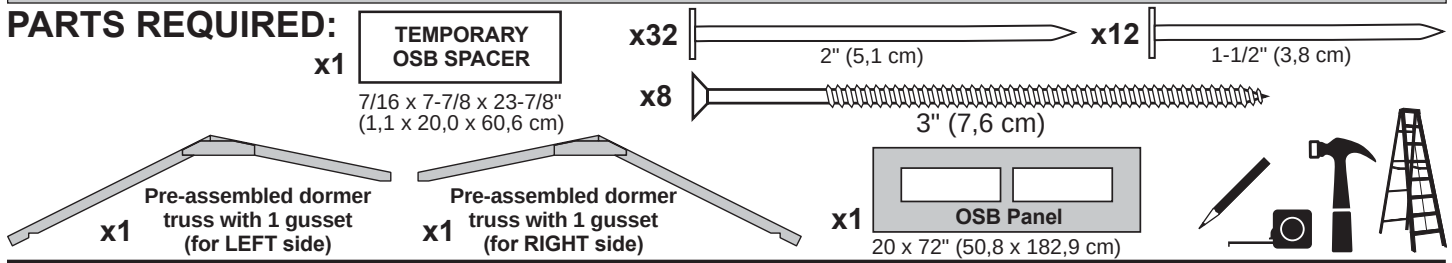
4 Place Pre-assembled dormer frame flush with front top plate (**Fig. B**) and resting on wall. Ensure dormer wall frame is flush to front edges of installed dormer panels (**Fig. C**).

5 Secure with 3" nails into top plate and 1-1/2" nails at side panels as shown.



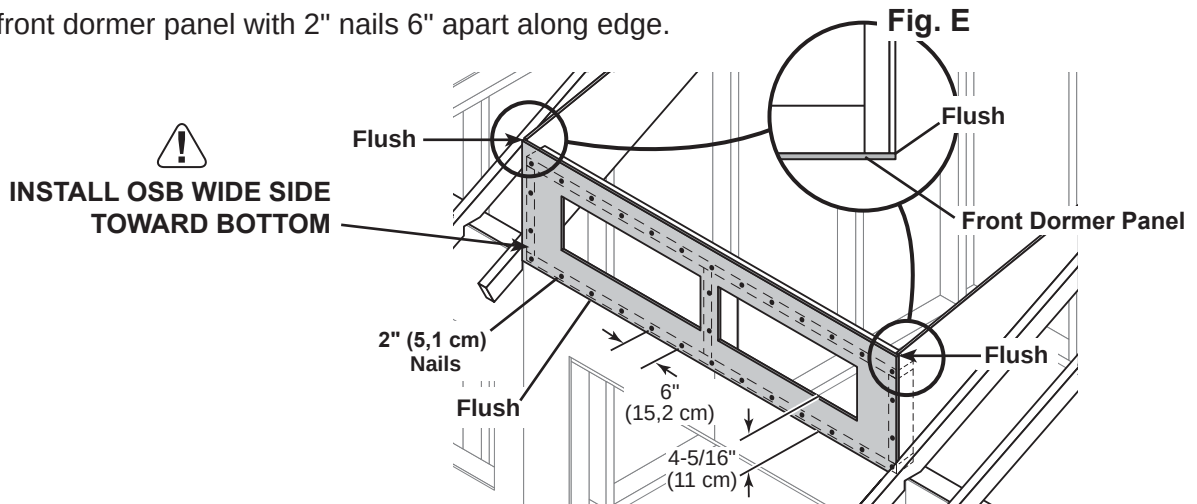
DORMER

PARTS REQUIRED:



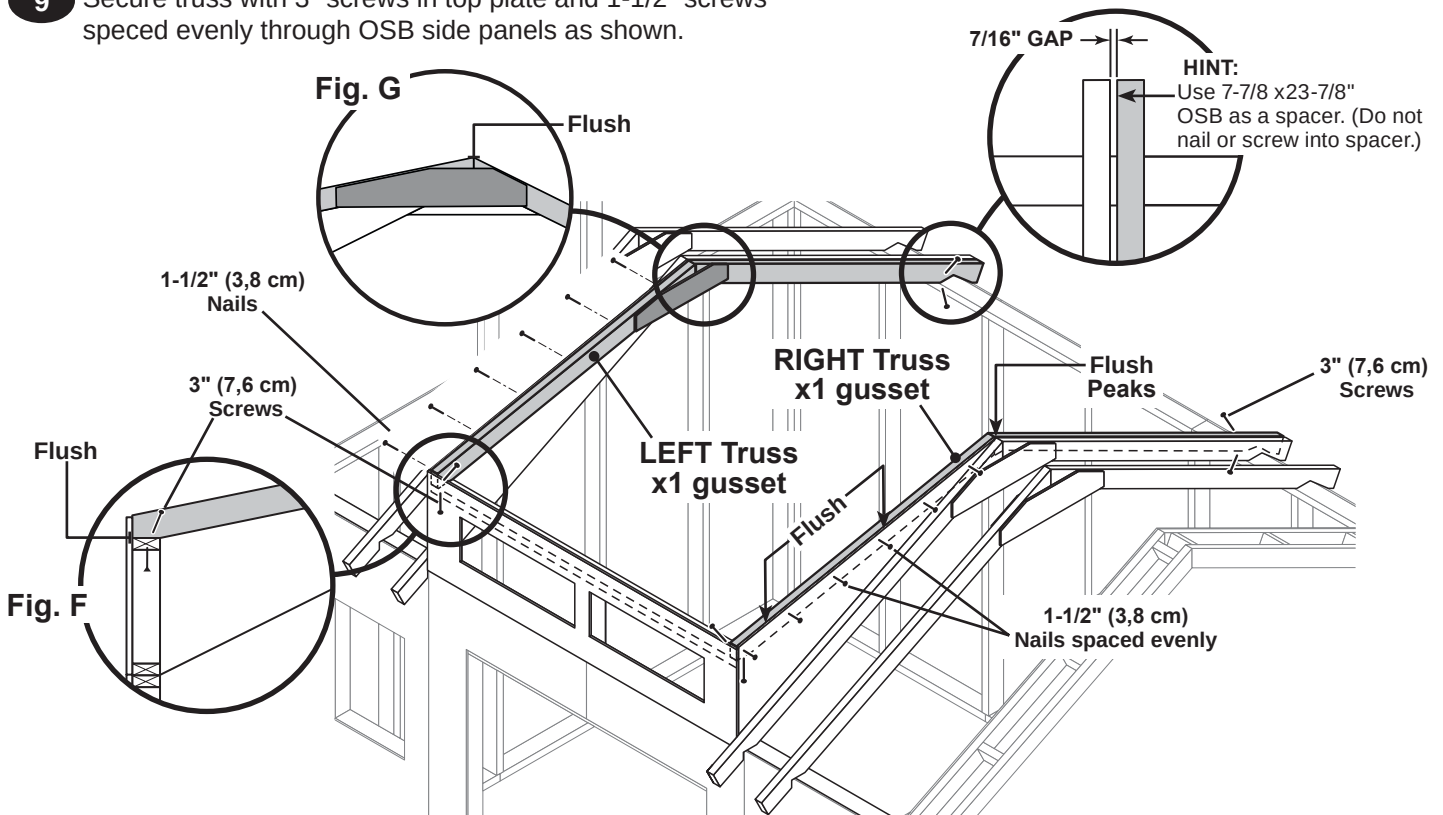
- Place **20" x 72"** OSB panel against front wall frame and resting on top of door panels. Ensure front dormer panel is flush with side panels along edge (**Fig E**).

- Secure front dormer panel with 2" nails 6" apart along edge.



- Place **LEFT pre-assembled truss** (gusset facing in) resting on top of dormer front frame and back wall top plate. Ensure dormer truss is flush along edge of panel and flush at peak of installed truss (**Fig. F, Fig. G**).

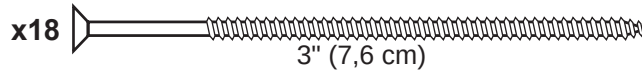
- Secure truss with 3" screws in top plate and 1-1/2" screws spaced evenly through OSB side panels as shown.



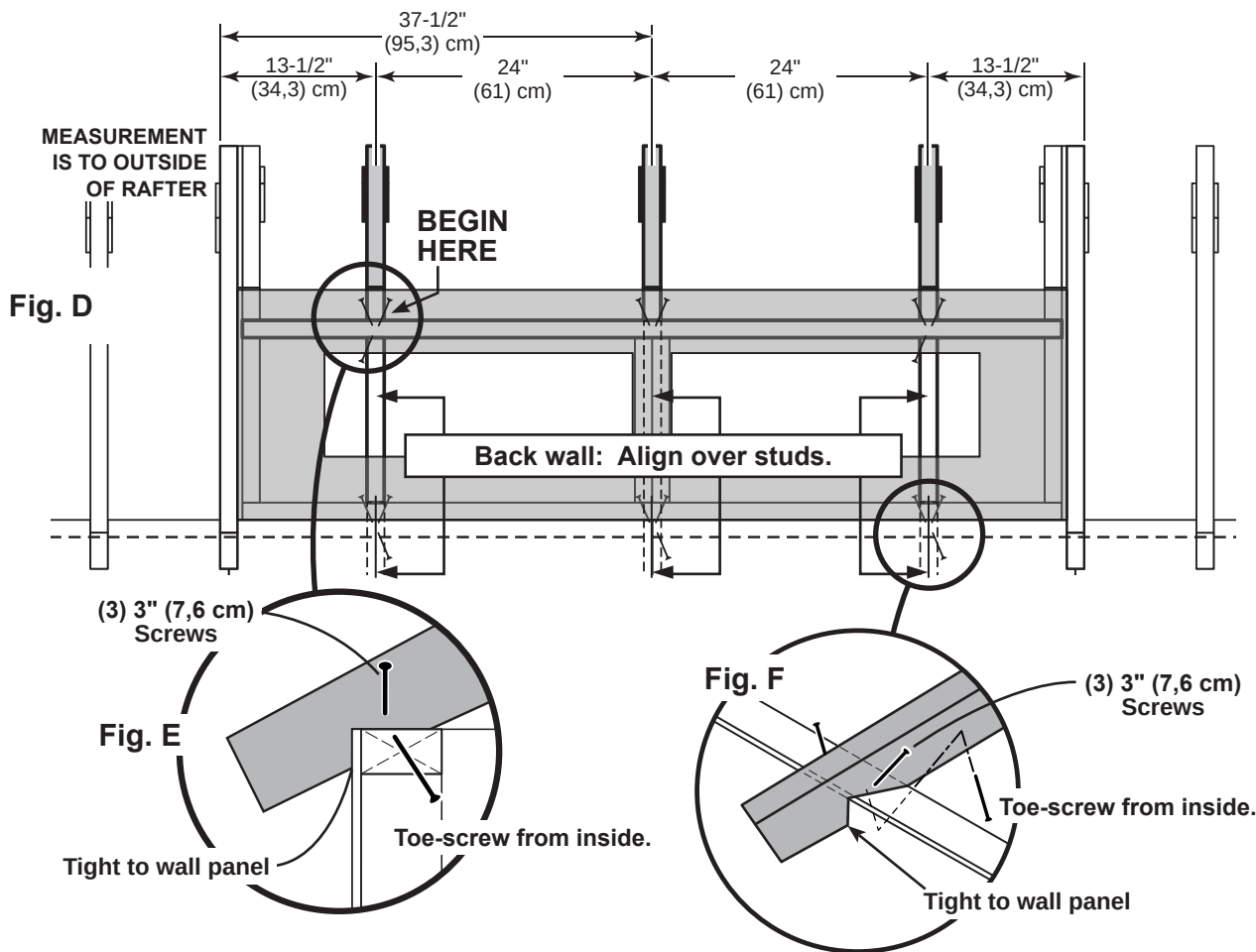
- Repeat **Steps 8-9** to install opposite **RIGHT** pre-assembled truss.

DORMER

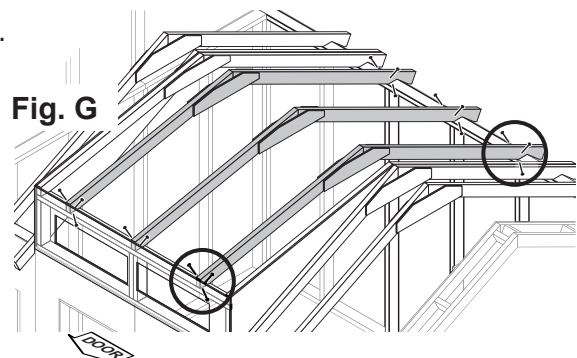
PARTS REQUIRED:



- 11 Rest first truss on dormer frame and back wall top plate. Align truss over back wall stud and at **13-1/2" measurement** from outside of rafter. Ensure rafter notch is tight to side wall (**Fig. D, Fig G**).
- 12 Secure truss to top plate with one 3" screw from under dormer frame and back wall top plate (**Fig. E, F**).
- 13 Continue securing rafter to top plate with two 3" screws above notch (**Fig. E, F**).
- 14 Rest middle truss on dormer frame and back wall top plate. Align truss over back wall stud and at **37-1/2" measurement** from outside of rafter. Ensure truss notch is tight to side wall (**Fig. E, Fig F**).

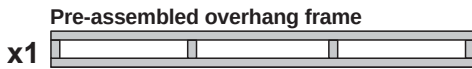
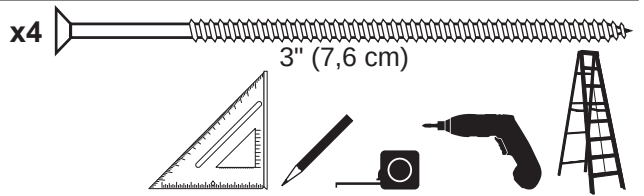


- 15 Repeat Steps 11-13 to install third truss (**Fig. D, Fig. G**).



DORMER

PARTS REQUIRED:

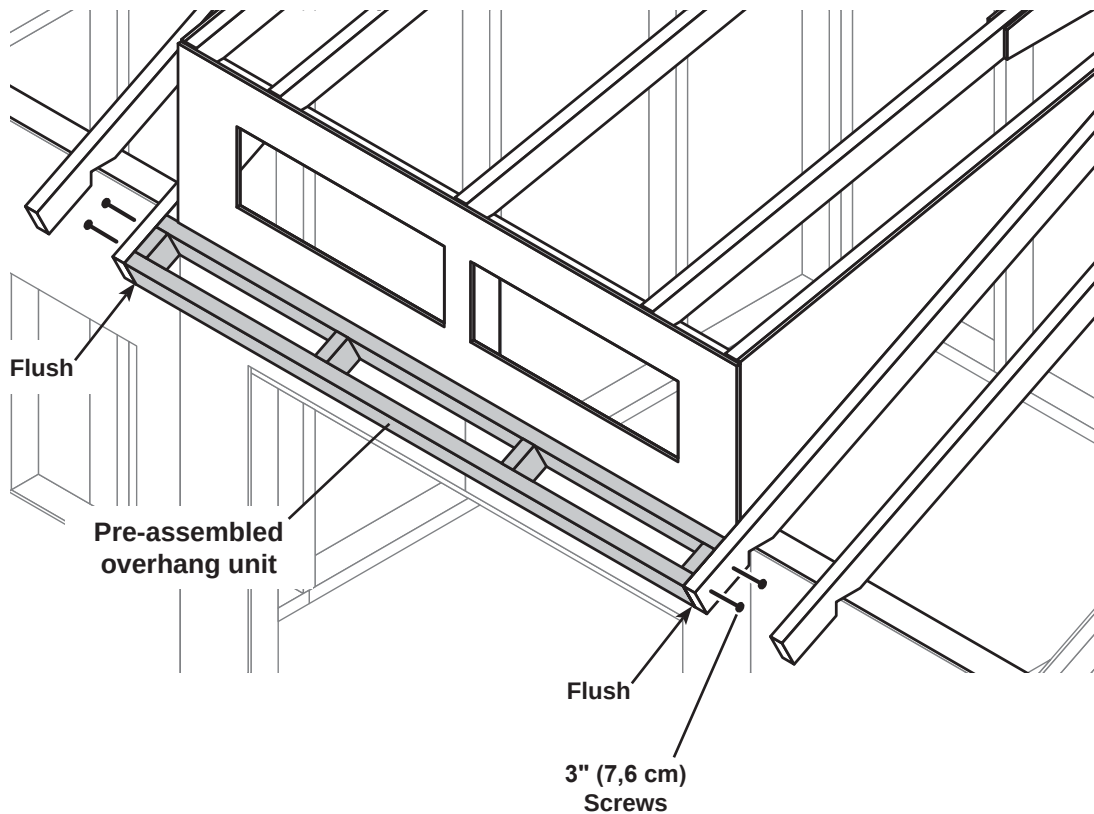


- 16** Place **pre-assembled overhang unit** between truss ends as shown. Ensure overhang unit is flush with ends.



Secure with 3" screws.

- **HINT:** Use a "C" clamp at each side to hold frame flush and square with trusses during installation.



- 17** You have finished pre-assembling your dormer. Proceed to install roof panels.

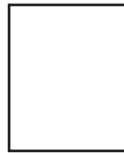
ROOF PANELS

PARTS REQUIRED:



x2

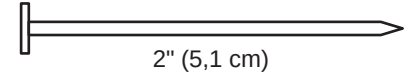
7/16 x 27-1/4 x 48"
(1,1 x 69,2 x 121,9 cm)



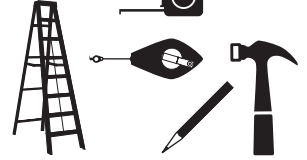
x2

7/16 x 32-5/8 x 48"
(1,1 x 82,9 x 121,9 cm)

x234



3/4" GAUGE
BLOCK



✓ BEGIN



Roof panels may cause serious injury until securely fastened.

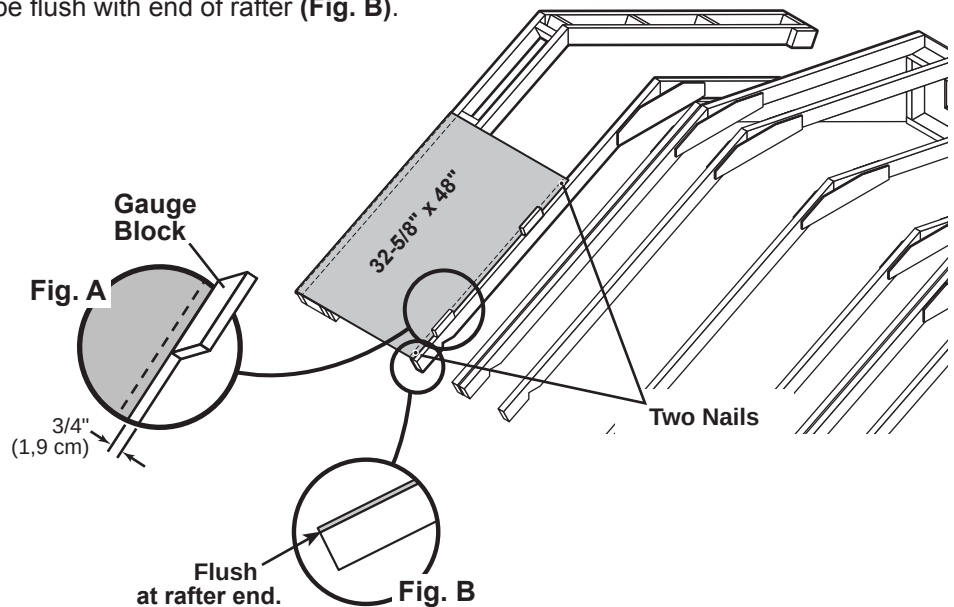


1

You must square the roof by attaching one **32-5/8 x 48"** panel at this time. You will use the panel's long edge as a lever to bring your roof into square.

Place the **32-5/8 x 48"** roof panel as shown with the rough side up. Use a gauge block to ensure the panel measures 3/4" (1,9 cm) along the length of the rafter (**Fig. A**). Panel should be flush with end of rafter (**Fig. B**).

Secure with two 2" nails.



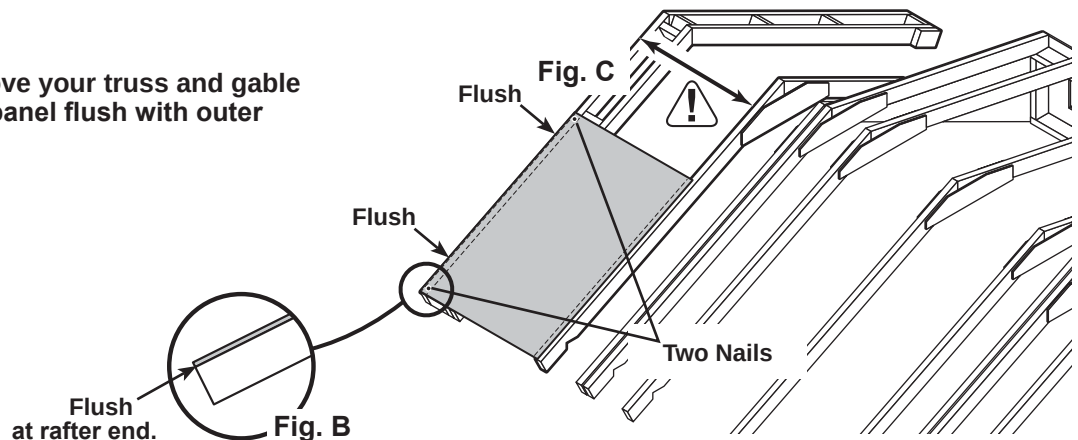
2

Move to the outside edge. Using the long edge of the panel as a lever move the panel side-to-side until the outside long edge is flush with the outer gable frame (**Fig B**).

Secure with two 2" nails.

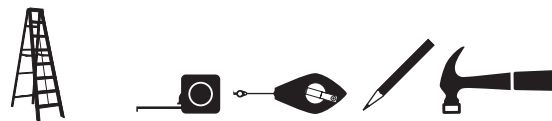


You may need to move your truss and gable frame unit to make panel flush with outer gable frame (**Fig. C**).

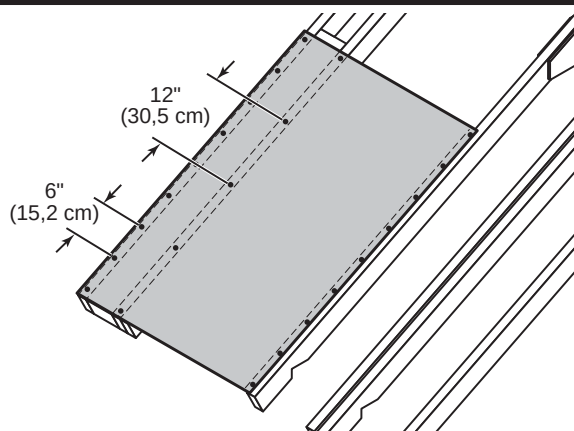


ROOF PANELS

PARTS REQUIRED:

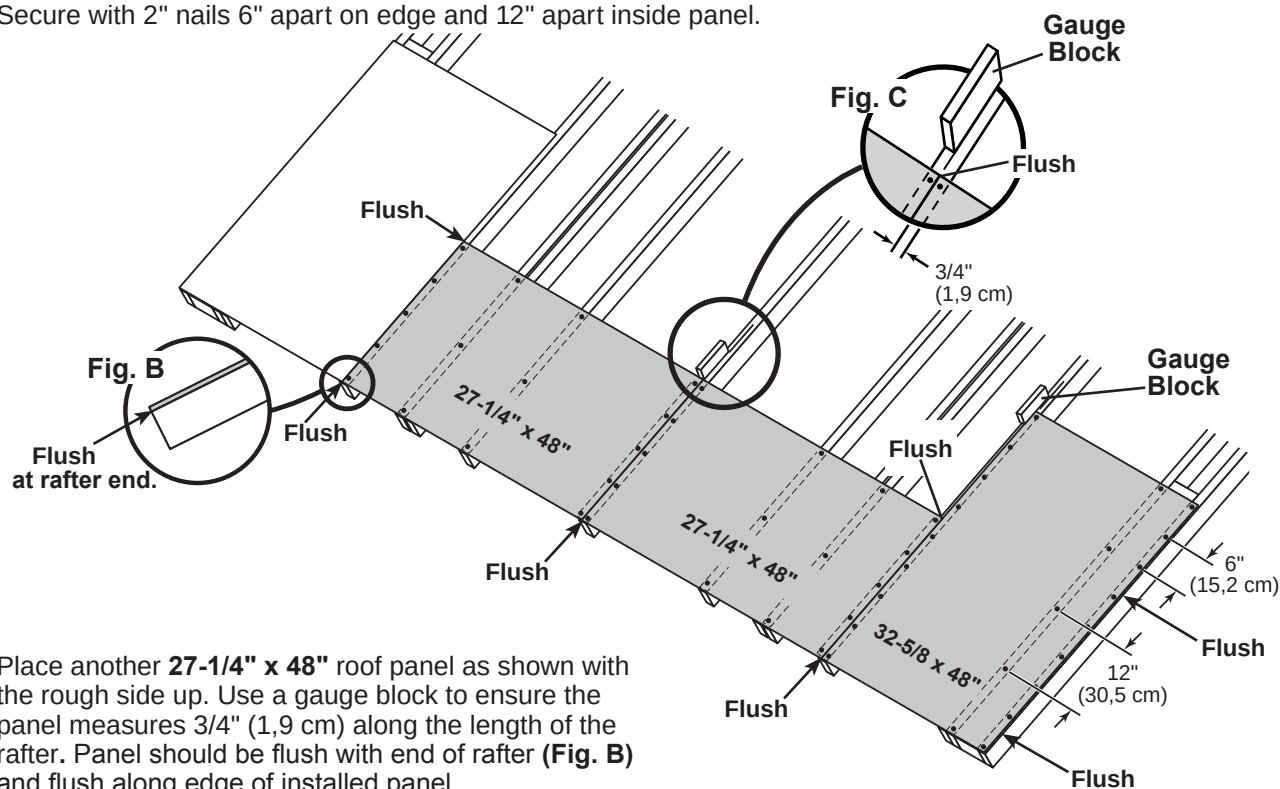


- 3 Nail the roof panel using 2" nails 6" apart on edges and 12" apart inside panel.



- 4 Place the **27-1/4" x 48"** roof panel as shown with the rough side up. Use a gauge block to ensure the panel measures 3/4" (1,9 cm) along the length of the rafter (**Fig. C**) Panel should be flush with end of rafter (**Fig. B**) and flush along edge of installed panel.

Secure with 2" nails 6" apart on edge and 12" apart inside panel.



- 5 Place another **27-1/4" x 48"** roof panel as shown with the rough side up. Use a gauge block to ensure the panel measures 3/4" (1,9 cm) along the length of the rafter. Panel should be flush with end of rafter (**Fig. B**) and flush along edge of installed panel.

Secure with 2" nails 6" apart on edge and 12" apart inside panel.

- 6 Place the **32-5/8" x 48"** roof panel as shown with the rough side up. Use a gauge block to ensure the panel measures 3/4" (1,9 cm) along the length of the rafter (**Fig. C**) Panel should be flush with end of rafter (**Fig. B**) and flush along edge of installed panel. Move and adjust gable unit and truss to make flush with **32-5/8" x 48"** roof panel.

Secure with 2" nails 6" apart on edge and 12" apart inside panel.

ROOF PANELS

PARTS REQUIRED:

x1



7/16 x 48 x 96"
(1,1 x 121,9 x 243,8 cm)

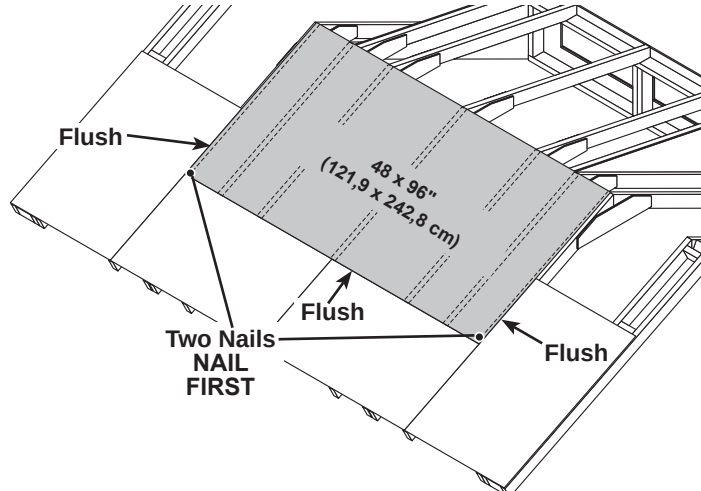


- 7 Place **48" x 96"** upper roof panel with the rough side up and flush with edges of all installed panels.



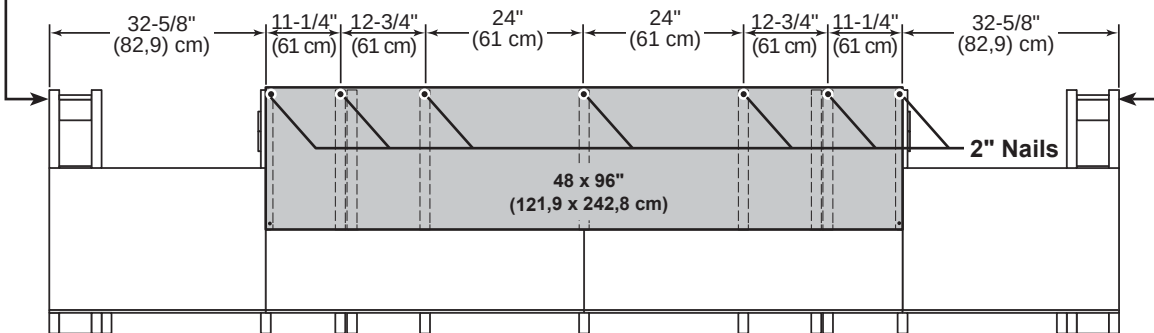
Use a gauge block to ensure the panel measures $\frac{3}{4}$ " (1,9 cm) along the length of the rafter (**Fig. A**).

Secure the lower edge of roof panel using two 2" nails in corners as shown.



NOTE: End-measurement from outside of gable.

Fig. F

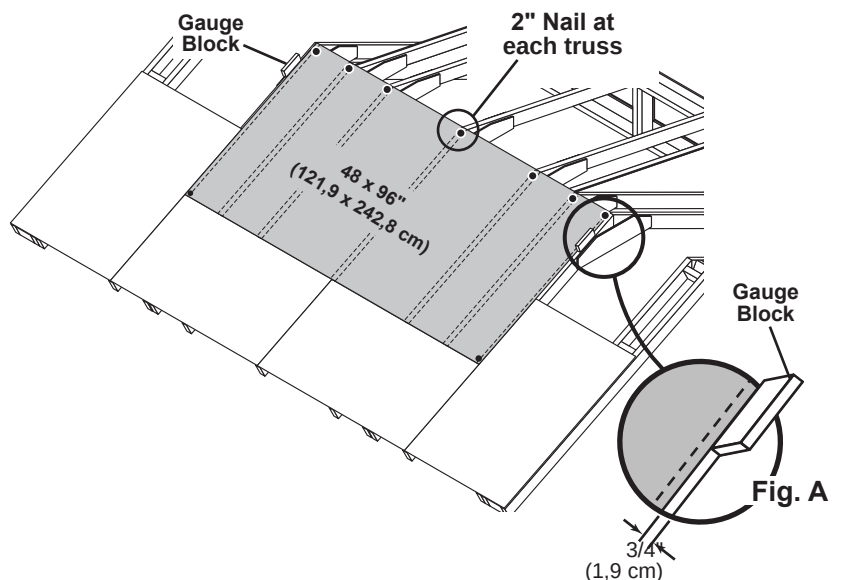


- 8 Move up to the top of the **48" x 96"** panel and **keep spacing between the center of the trusses** (**Fig. F**).



Use a gauge block to ensure the panel measures $\frac{3}{4}$ " (1,9 cm) along the length of the rafter (**Fig. A**).

Secure with (7) 2" nails, one into each rafter (**Fig. F**).



ROOF PANELS

PARTS REQUIRED:

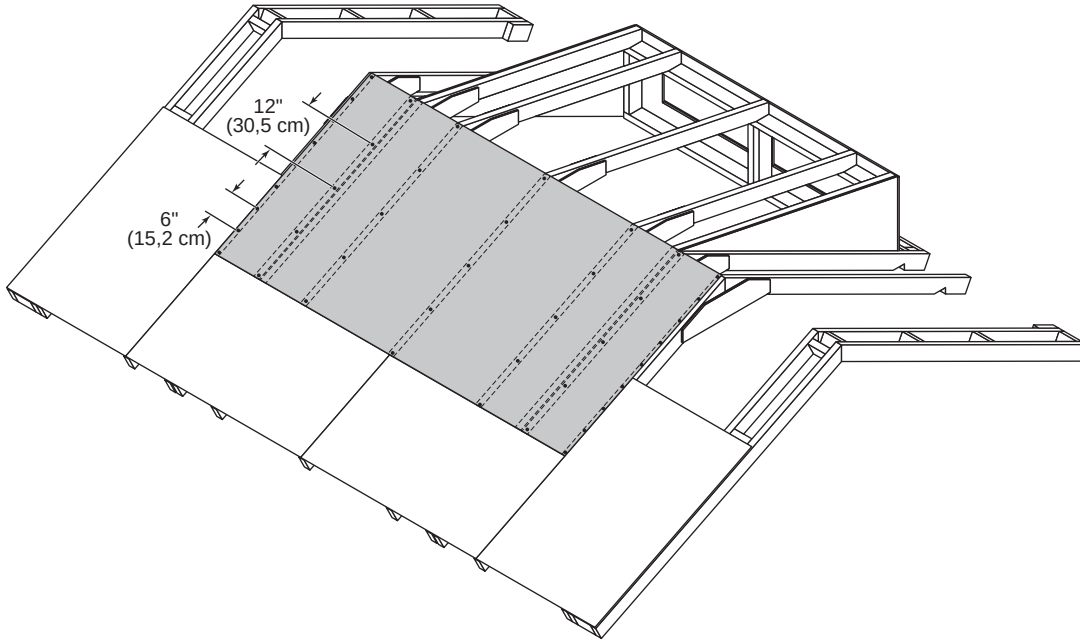
x2



7/16 x 27-1/4 x 32-5/8"
(1,1 x 69,2 x 82,9 cm)

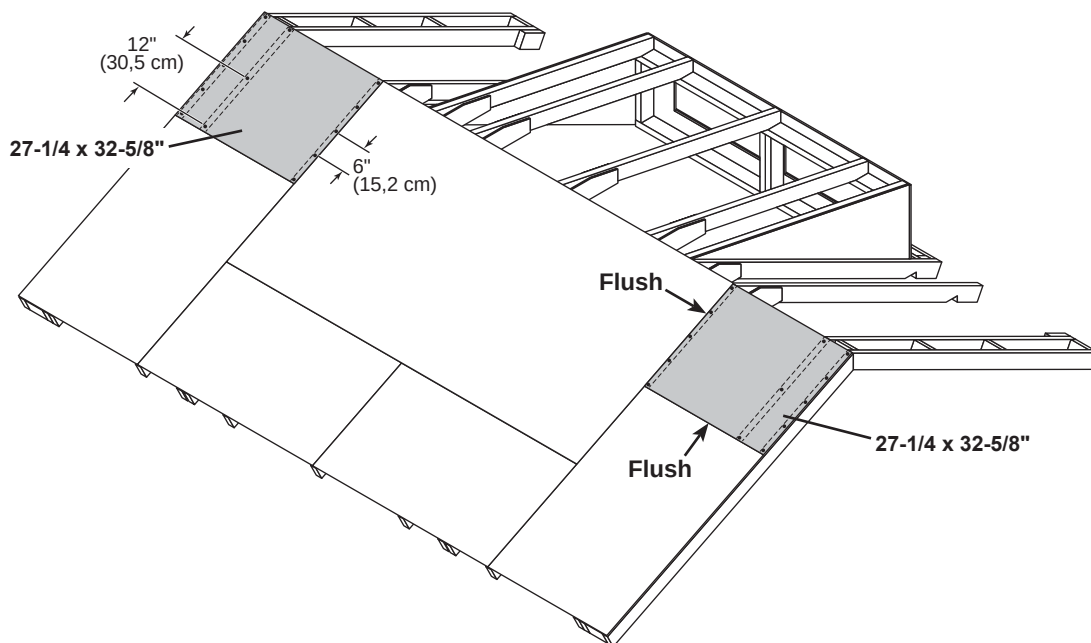


- 9 Nail the roof panels using 2" nails 6" apart on edges and 12" apart inside panel.



- 10 Place the **27-1/4" x 32-5/8"** roof panels as shown with the rough side up. Panels should be flush along edge of installed panels and outer edge of gable frame.

Secure with 2" nails 6" apart on edge and 12" apart inside panel.

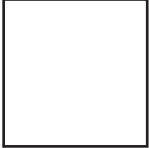


- 11 You have finished installing your **back roof panels**.

ROOF PANELS (Front)

PARTS REQUIRED:

x2  7/16 x 27-1/4 x 44-5/8"
(1,1 x 69,2 x 113,3 cm)

x2  7/16 x 44-5/8 x 48"
(1,1 x 113,3 x 121,9 cm)

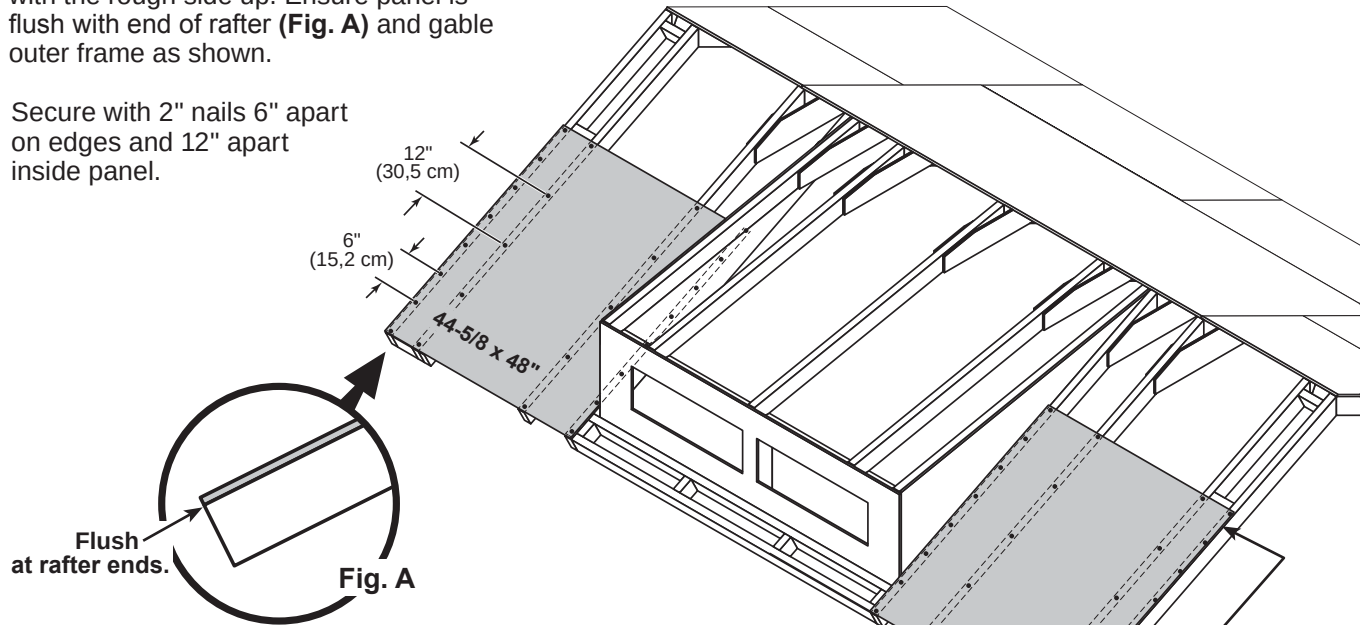


✓ **BEGIN**  **Roof panels may cause serious injury until securely fastened.**



- 1 Place a **44-5/8 x 48"** roof panel as shown with the rough side up. Ensure panel is flush with end of rafter (**Fig. A**) and gable outer frame as shown.

Secure with 2" nails 6" apart on edges and 12" apart inside panel.

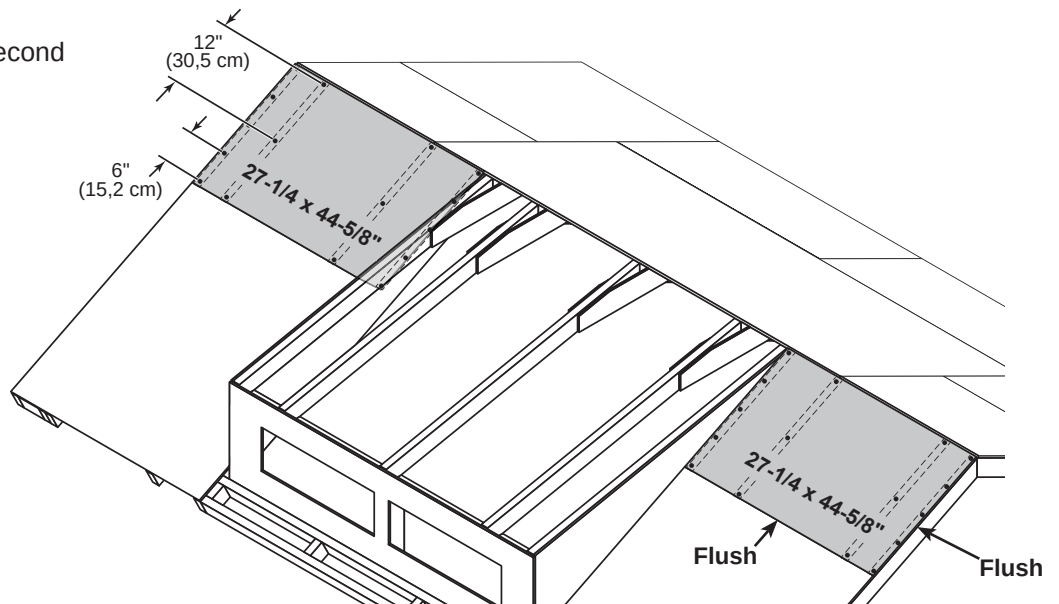


- 2 Repeat **Step 1** to install second **44-5/8" x 48"** panel.

- 3 Place a **27-1/4" x 44-5/8"** roof panel as shown with the rough side up. Ensure panel is flush with installed panel and gable outer frame as shown.

Secure with 2" nails 6" apart on edges and 12" apart inside panel.

- 4 Repeat **Step 3** to install second **27-1/4" x 44-5/8"** panel.



ROOF PANELS (Front)

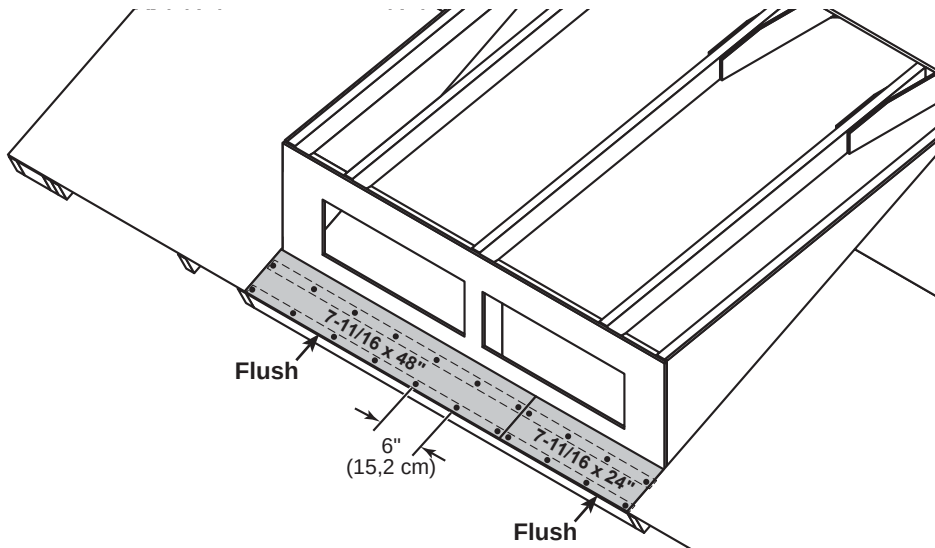
PARTS REQUIRED:

x1		x1	
	7/16 x 7-11/16 x 24" (1,1 x 19,5 x 61 cm)		7/16 x 7-11/16 x 48" (1,1 x 19,5 x 121,9 cm)



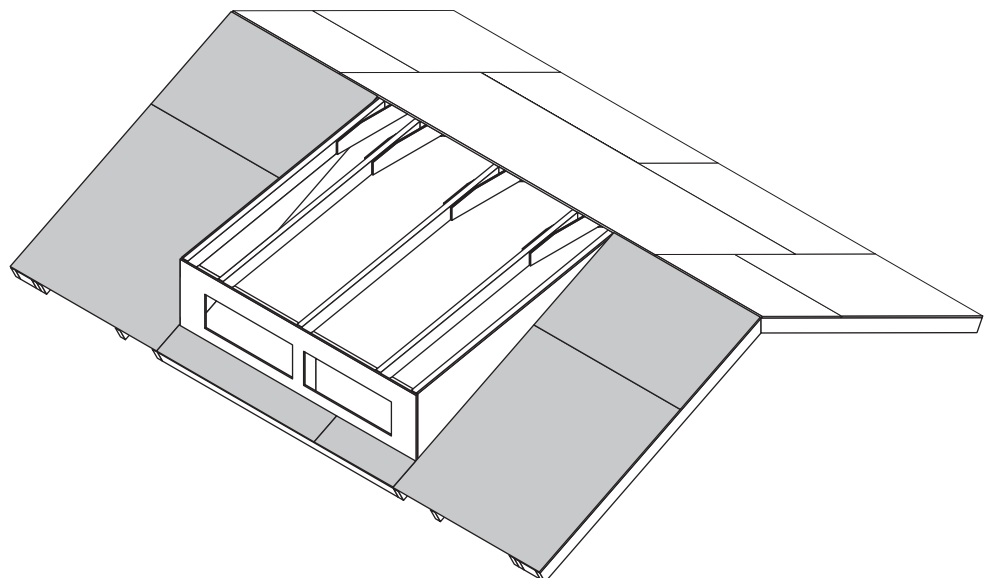
- 5** Place **7-11/16" x 24"** and **7-11/16" x 48"** roof panels as shown with the rough side up. Ensure panels are flush with edge of installed panels as shown.

Secure with 2" nails 6" apart.



FINISH

- 6** You have finished installing your **front roof panels**.



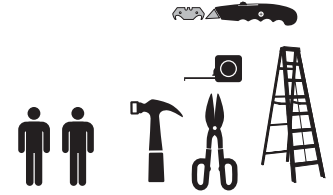
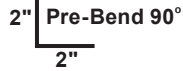
DORMER FELT / FLASHING

PARTS REQUIRED:

(x40) 1" GALVANIZED ROOFING NAILS

(x3) 4" x 32" Aluminum
Flashing Cards

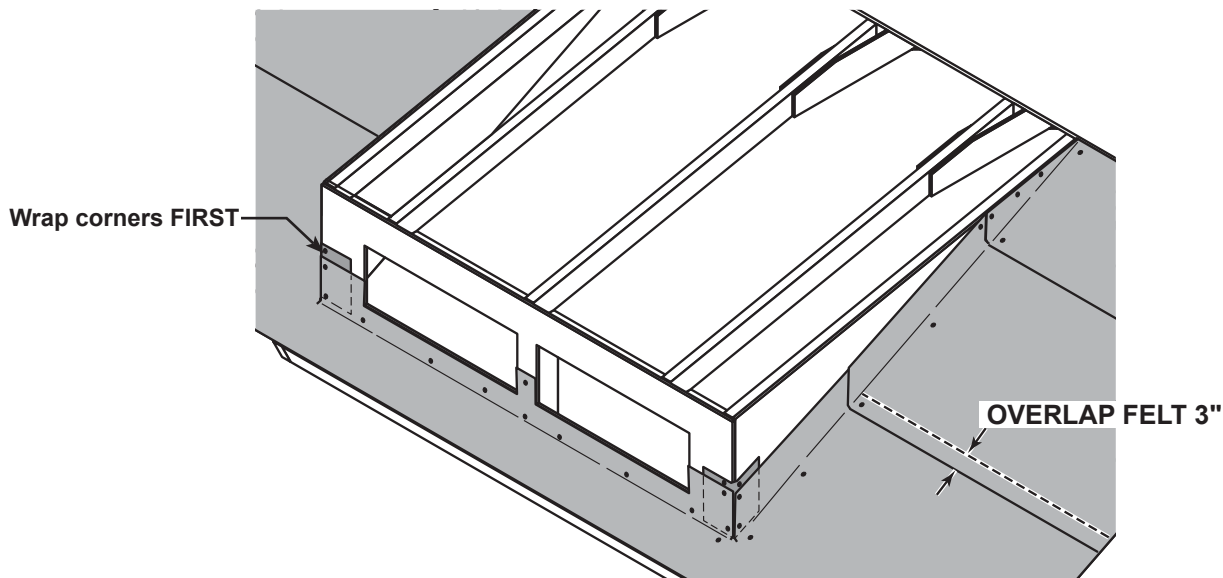
#15 ROOFING FELT



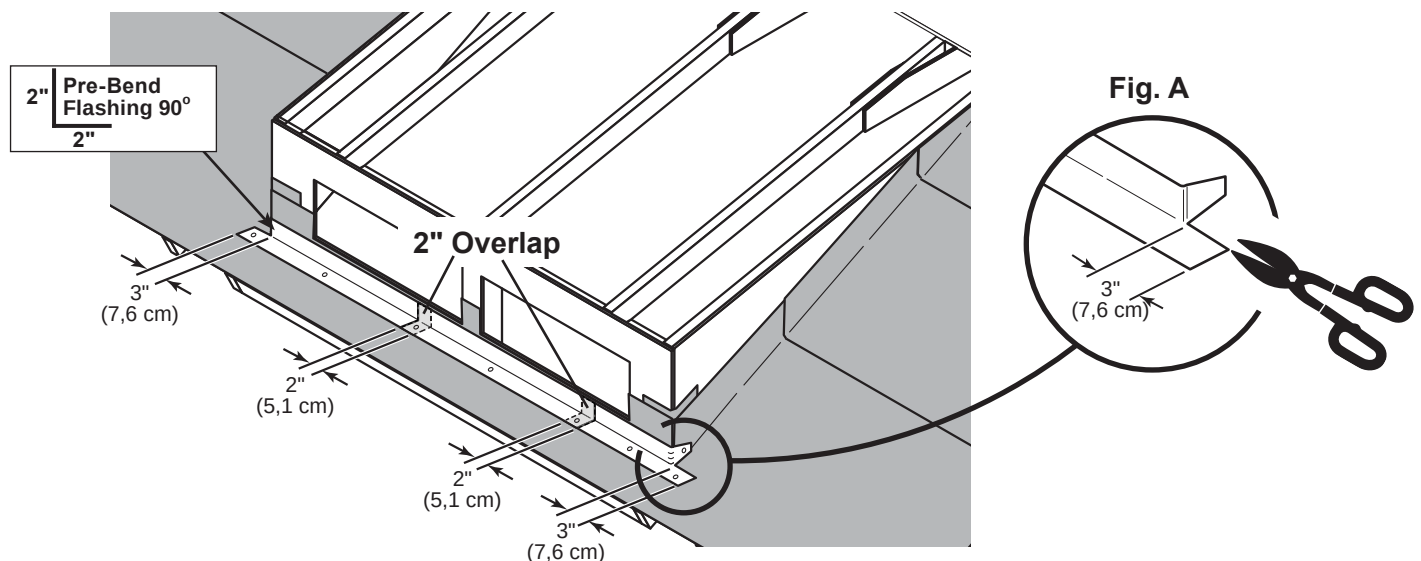
Read roofing instructions beginning at Page 93 for roofing felt and shingle installation.
Follow instructions below for dormer roofing felt and flashing installation.

✓ BEGIN

- 1 Install roofing felt around dormer prior to flashing. Overlap felt layers by 3". Wrap corners with felt before installing larger pieces. Secure felt with 1" roofing nails as shown. **Nail only into dormer OSB panels with framing behind panel.** Trim felt around OSB window openings.



- 2 Flash the front of dormer using (3) 4" x 32" flash cards. Overlap ends of flashing 2". Extend flashing 3" past corner of dormer. Trim flashing corner ends as shown (**Fig. A**). Bend tab around corner and secure flashing with 1" roofing nails. At one end flashing will have excess metal trimmed off length.



- 3 Repeat **Steps 1-2** for opposite side.

DORMER FLASHING / SHINGLES

PARTS REQUIRED:

(x40) 1" GALVANIZED
ROOFING NAILS

(x30) 5" x 7" Aluminum
Flashing Cards

2-1/2" Pre-Bend 90°
2-1/2"



- 4 Trim, bend and nail a 5" x 7" flashing at the dormer corner (**Fig. B**). Secure flashing with 1" nails.

Lay first row of shingles on top of flashing (**Fig. C**). Secure shingles with 1" roofing nails. Lay second row of shingles up to side of dormer (**Fig. C**). Secure with 1" roofing nails. Bend, place and nail a 5" x 7" flashing up the dormer wall and on top of shingle. Overlap first 5" x 7" flashing by 1-1/2". Secure with 1" roofing nails.

Do not nail into dormer wall.

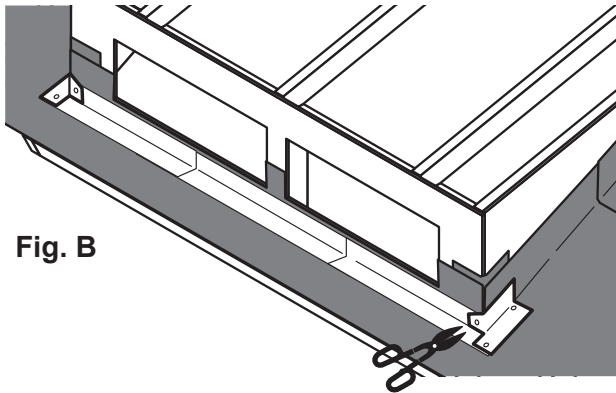


Fig. B

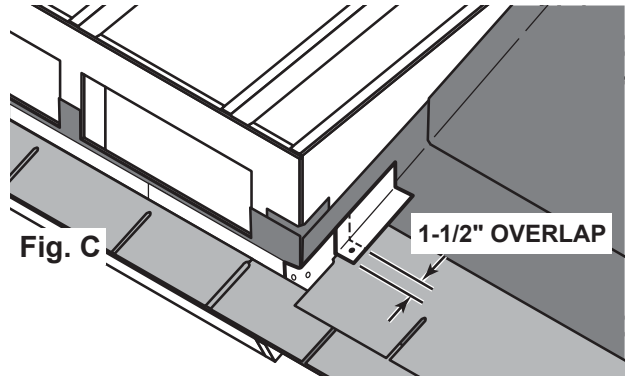
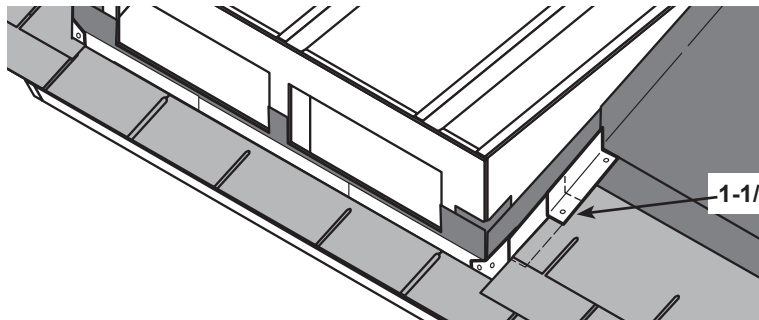


Fig. C

1-1/2" OVERLAP

- 5 Lay next shingle on top of 5" x 7" flashing. Secure shingle with 1" nails. Bend and place next 5" x 7" flashing up the dormer wall and on top of shingle. Overlap flashing by 1-1/2". Secure flashing with 1" roofing nails.



1-1/2" OVERLAP

- 6 Keep alternating and stepping flashing and shingles as in **Step 5** until you have reached the roof peak (**Fig. D**). You will have to trim flashing when you work near top of dormer.

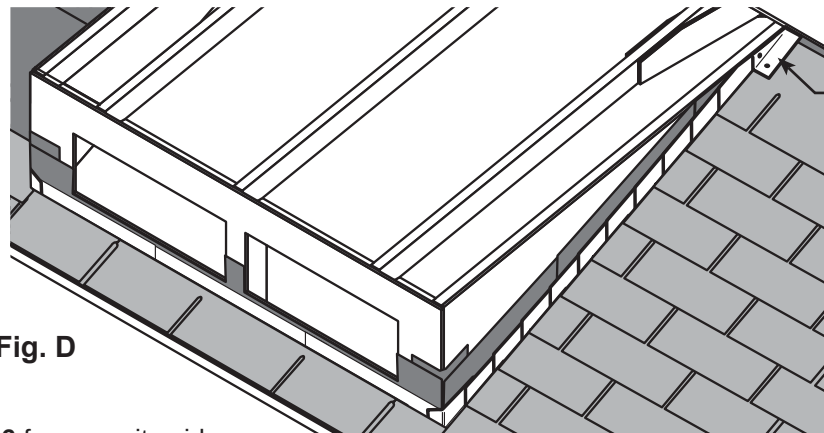


Fig. D



TRIM Flashing at top

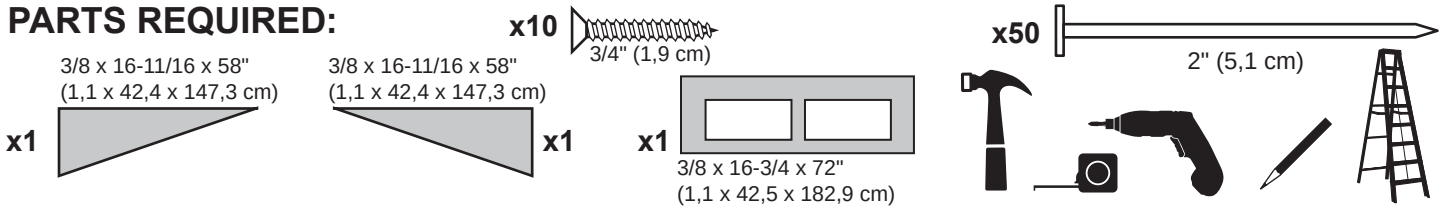
- 7 Repeat **Steps 4-6** for opposite side.



- 8 You have finished installing your dormer flashing. Proceed to complete your dormer.

DORMER OUTER WALL PANELS

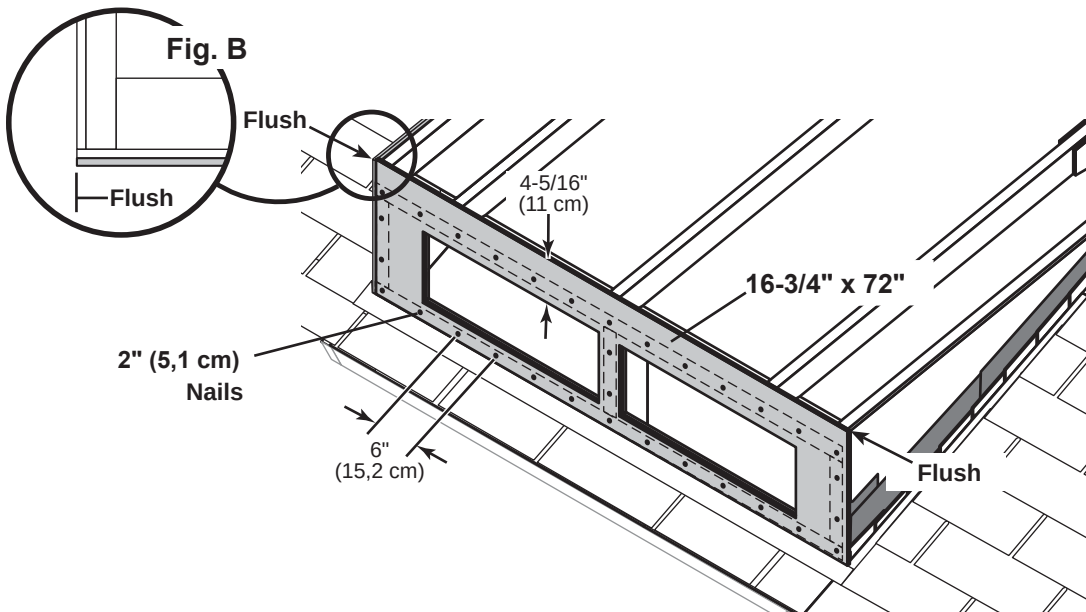
PARTS REQUIRED:



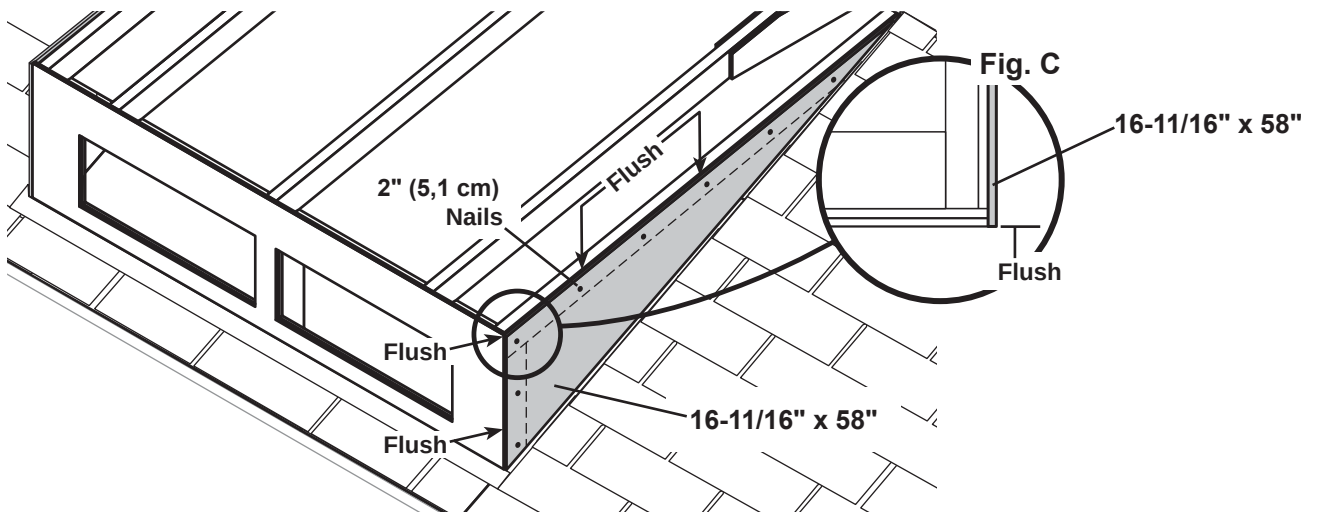
BEGIN

- Align 16-3/4" x 72" front panel flush with OSB window openings (**Fig. A**) and flush at sides (**Fig. B**). Secure with 2" nails into front dormer frame as shown. Space nails 6" apart along edges.

HINT: Ensure window cutouts align with OSB panel cutouts.

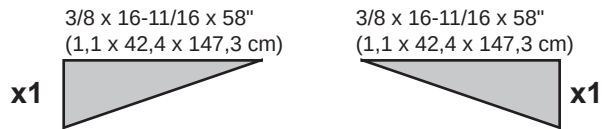


- Place right side 16-11/16" x 58" panel flush along top of OSB side panel. Ensure 16-11/16" x 58" side panel is flush with front edge of 16-3/4" x 72" front panel (**Fig. C**). Secure with (8) 2" nails into through side OSB panel into dormer side frame. Space nails evenly.



DORMER OUTER WALL PANELS

PARTS REQUIRED:



x10

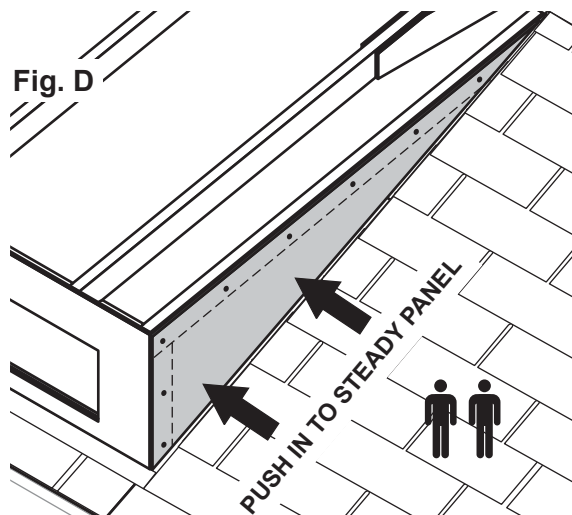
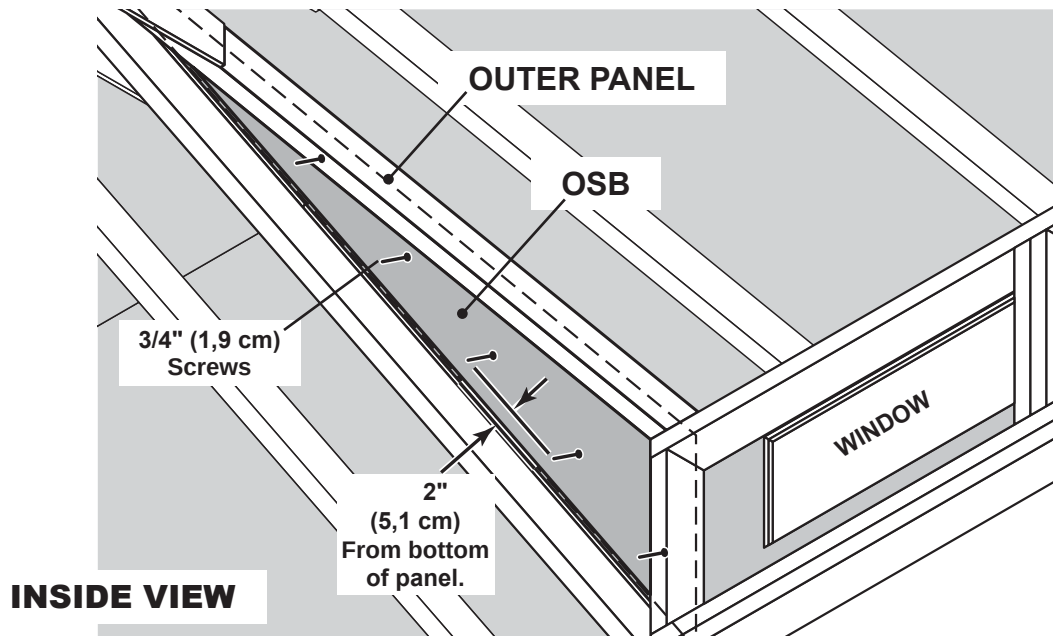
 3/4" (1,9 cm)



- 3** Working from inside of shed, secure bottom of 16-11/16" x 58" outer side panel with 3/4" screws through side OSB panel.

HINT: Have someone from outside dormer press in on bottom of outer side panel (**Fig. D**). Set (5) 3/4" screws at 2" up from bottom of inner panel lower edge.

Do not over-drive screws.



- 4** Repeat **Steps 1-3** for opposite side.



- 5** You have finished installing your dormer outer side wall panels.

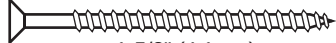
DORMER ROOF UNIT

PARTS REQUIRED:

x2 **KNA TEMPORARY SUPPORT**
2 x 4 x 52-1/2" (5,1 x 10,2 x 133,3 cm)

x1 **KKA**
2 x 6 x 81" (5,1 x 15,2 x 205,7 cm)

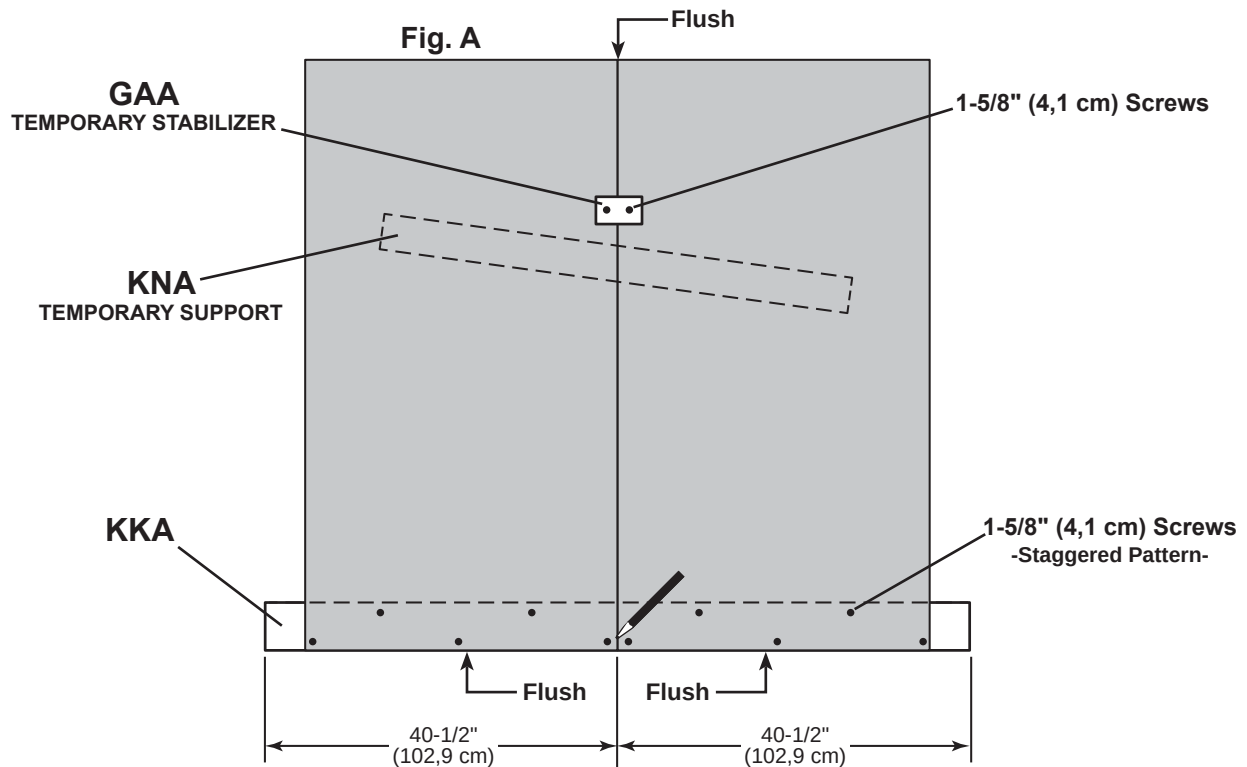
x2
7/16 x 35-7/8 x 67-7/8"
(1,1 x 91,1 x 171,8 cm)

x14 
1-5/8" (4,1 cm)



✓ BEGIN

- 1** Place **KKA** on floor or other flat surface. Measure and mark KKA at center point (**Fig. A**).
- 2** Place **35-7/8" x 67-7/8"** roof panel on top of **KKA** with the rough side up. Ensure panel is on center mark and flush along front edge. Attach **35-7/8" x 67-7/8"** roof panel using (6) 1-5/8" screws in a staggered pattern.
-  **HINT:** Use **KNA** as a support.
- 3** Place second **35-7/8" x 67-7/8"** roof panel on top of **KKA** as shown with the rough side up. Ensure panel is flush at seam and along front edge. Attach **35-7/8" x 67-7/8"** roof panel using (6) 1-5/8" screws in a staggered pattern.
- 4** Attach **GAA** as a temporary panel stabilizer using 1-5/8" screws as shown.



FINISH

- 5** You have finished assembling your dormer roof unit.

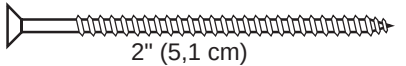
DORMER SIDE SOFFIT ASSEMBLIES

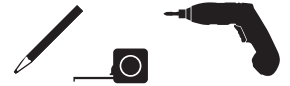
PARTS REQUIRED:

x2 **KNA**
2 x 4 x 52-1/2" (5,1 x 10,2 x 133,3 cm)

x1 **QNL**
19/32 x 3-1/2 x 58-5/8" (1,5 x 8,9 x 148,9 cm)

x1 **QNR**
19/32 x 3-1/2 x 58-5/8" (1,5 x 8,9 x 148,9 cm)

x12  2" (5,1 cm)

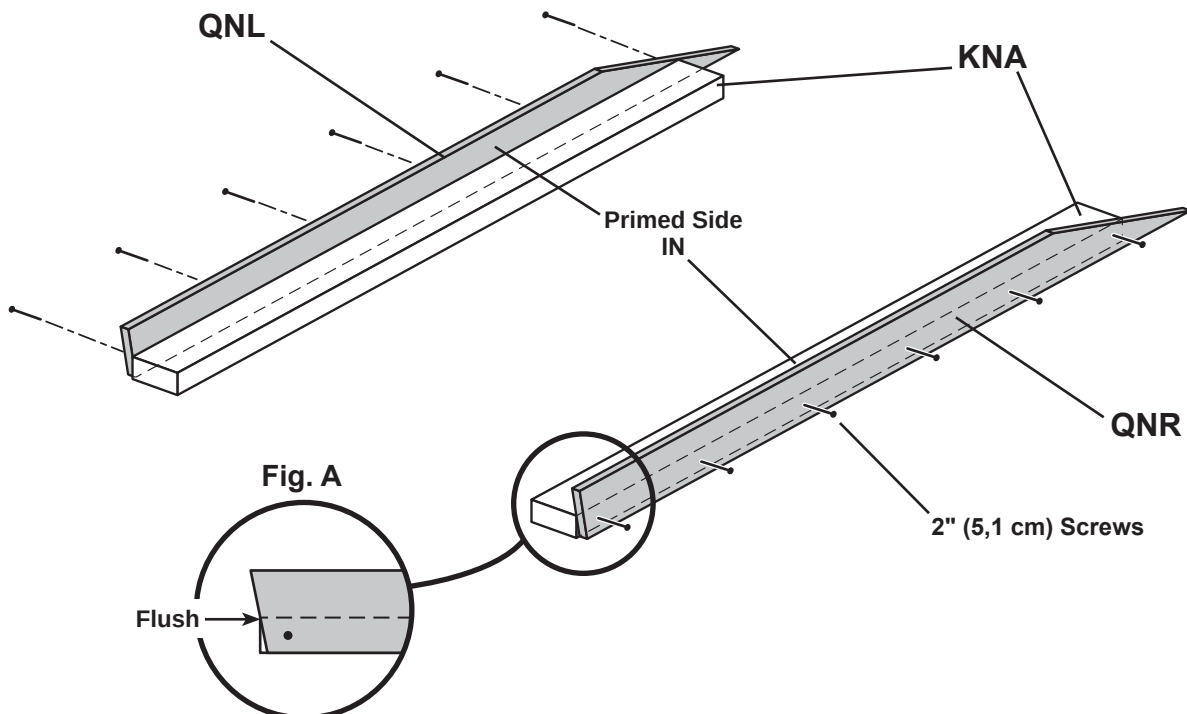


YOU WILL BUILD A LEFT AND A RIGHT SOFFIT ASSEMBLY.

✓ BEGIN

1 Orient parts as shown on a flat surface. Slide part **QNR** until angle hits corner of **KNA** (**Fig. A**).

2 Secure with (6) 2" screws.



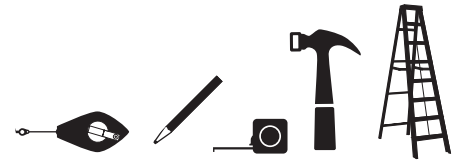
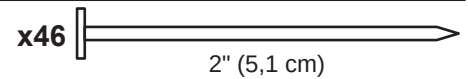
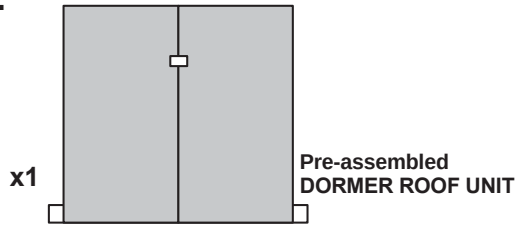
3 Repeat **Steps 1-2** for opposite side using **QNL**.



4 You have finished assembling your dormer roof side assemblies.

DORMER ROOF

PARTS REQUIRED:

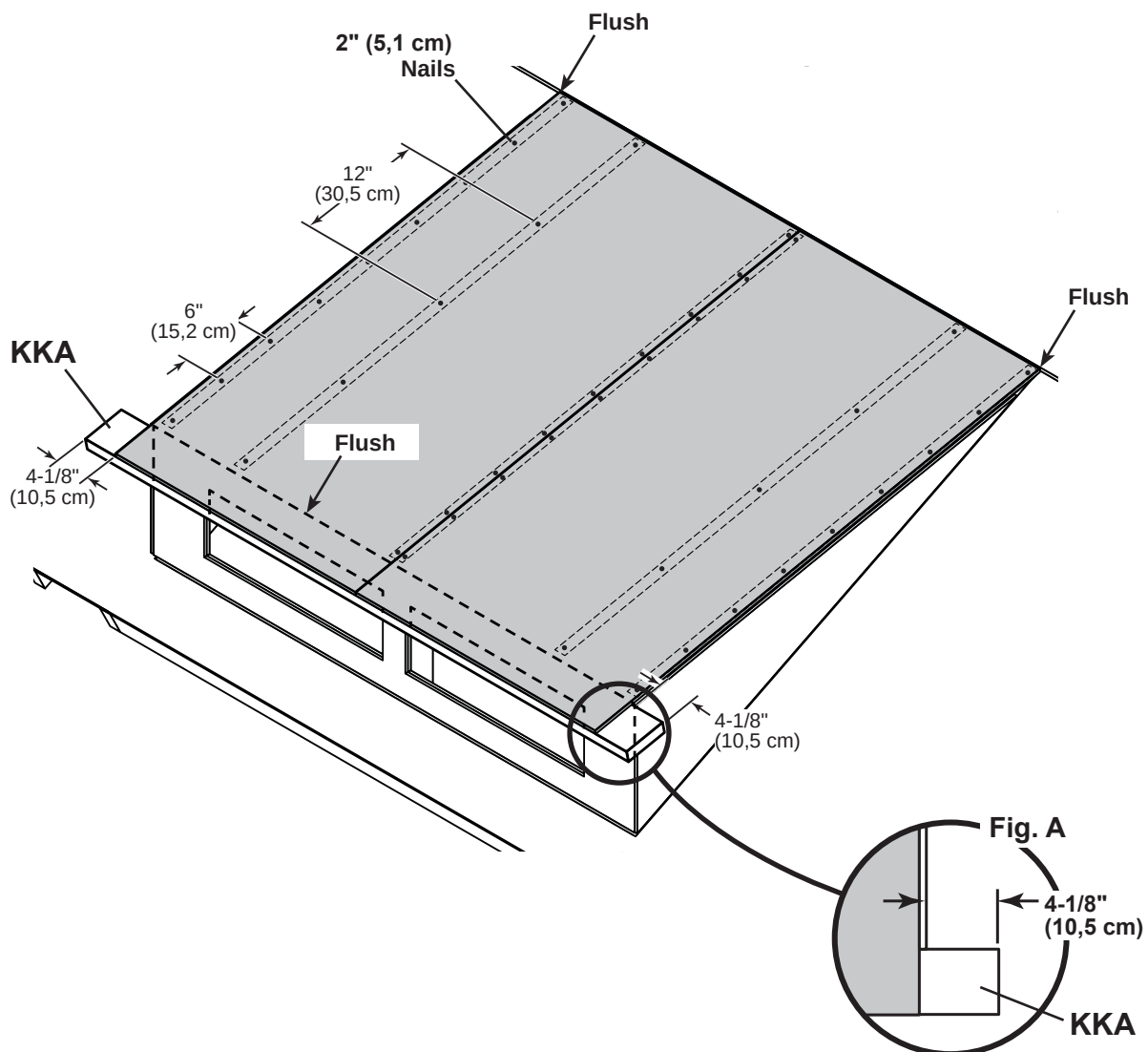


! Roof panels may cause serious injury until securely fastened. Two people are recommended.



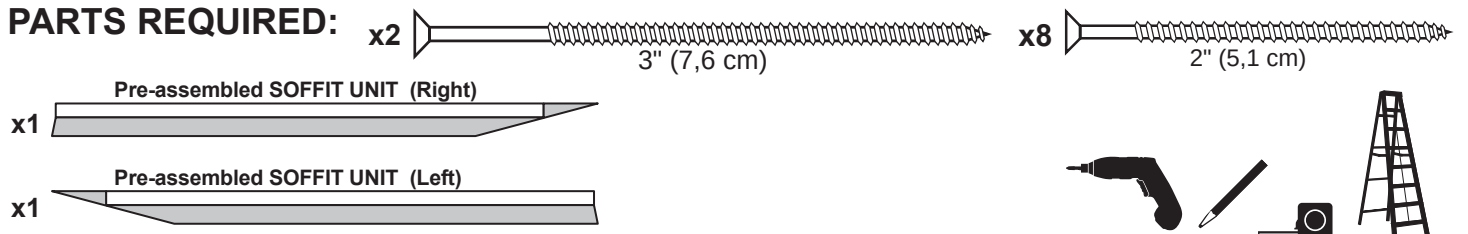
✓ BEGIN

- 1** Place **DORMER ROOF UNIT** on dormer.
- 2** Ensure **KKK** 2" x 6" extends past dormer panel by 4-1/8" at both sides (**Fig. A**) and is tight against front dormer panel.
- 3** Mark truss locations on **DORMER ROOF UNIT** and secure with 2" nails 6" apart along panel edges and 12" apart in panel centers. Remove **GAA** temporary support from roof unit.



DORMER ROOF

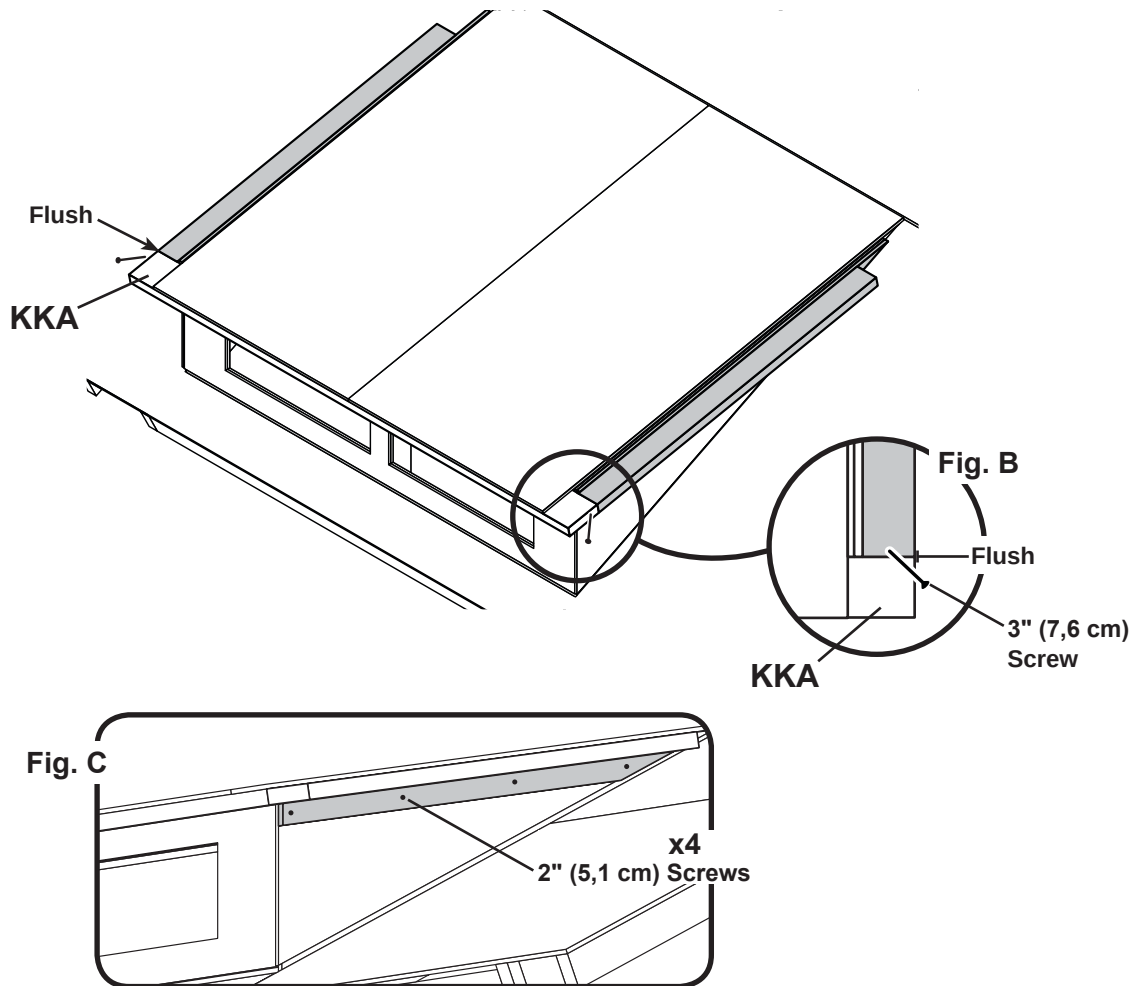
PARTS REQUIRED:



4 Place **SOFFIT UNIT** tight against dormer wall and flush with front soffit board **KKA**.

5 Secure soffit unit with 2" screws (**Fig. C**).

6 Toe-screw soffits together with 3" screws (**Fig. B**).



7 Repeat **Steps 4-6** for other soffit unit.

DORMER ROOF

PARTS REQUIRED:

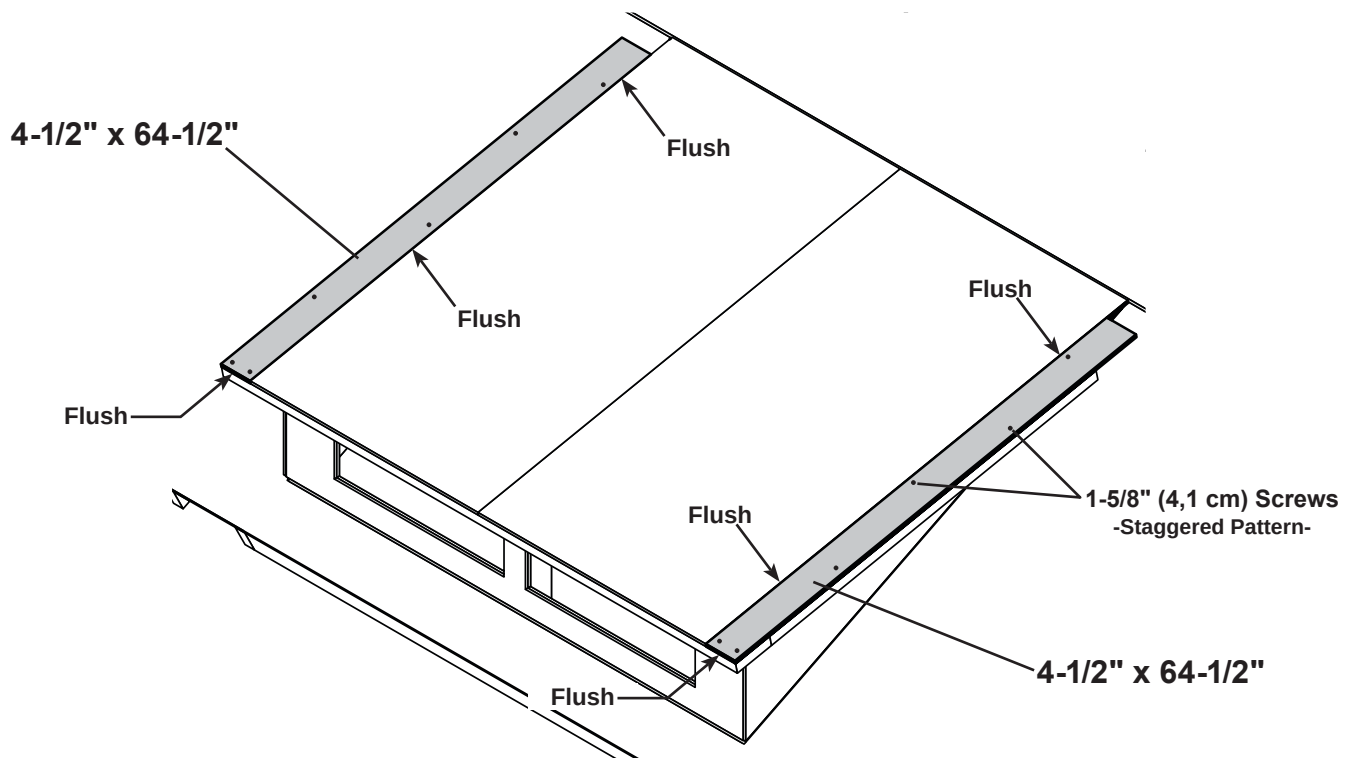
x2 
 7/16 x 4-1/2 x 64-1/2"
 (1,1 x 11,4 x 163,8 cm)

x12 
 1-5/8" (4,1 cm)



8 Place **4-1/2" x 64-1/2"** dormer roof panels on either side of installed dormer roof panels. Hold flush to front and along panel seam.

9 Secure with 1-5/8" screws in a staggered pattern as shown.



10 You have finished installing your dormer roof and soffits.

DORMER FASCIA

PARTS REQUIRED:

x1 **MGA**

19/32 x 2-1/2 x 82-3/16" (1,5 x 6,3 x 208,8 cm)

x1 **MHL**

19/32 x 2-1/2 x 64-1/2" (1,5 x 6,3 x 163,8 cm)

x1 **MHR**

19/32 x 2-1/2 x 64-1/2" (1,5 x 6,3 x 163,8 cm)

x26

2" (5,1 cm)

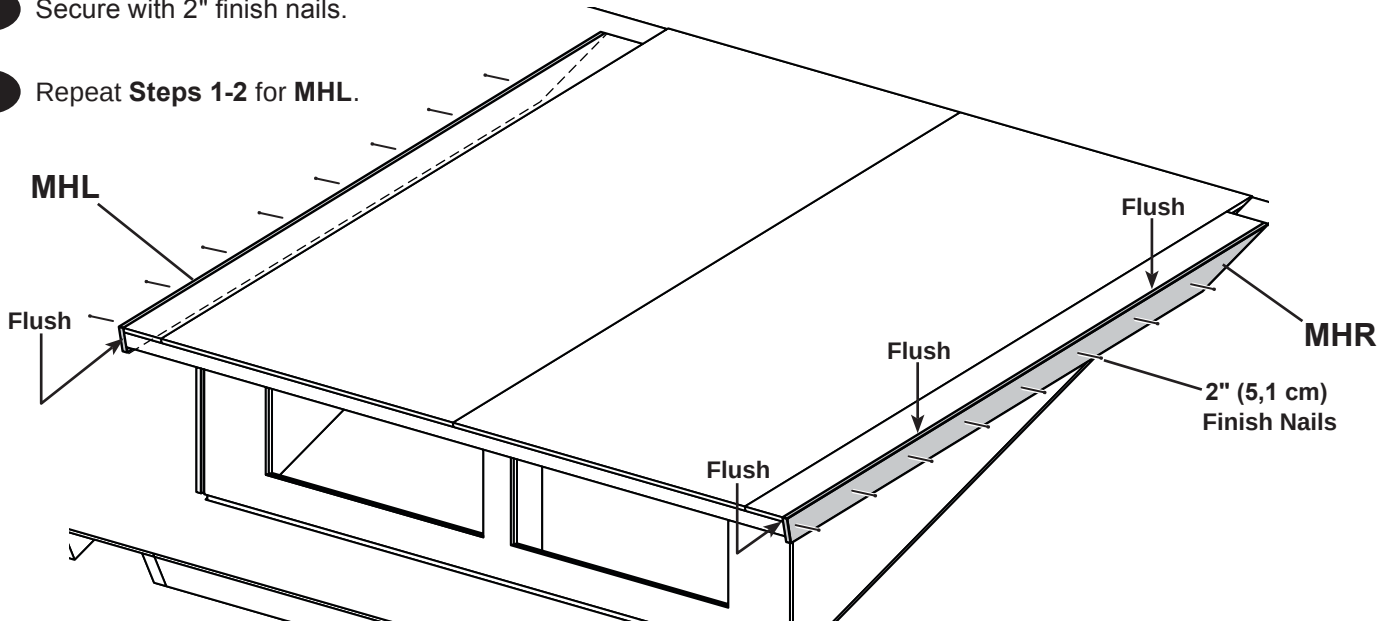


✓ BEGIN

1 Place **MHR** flush with side and front of roof panel.

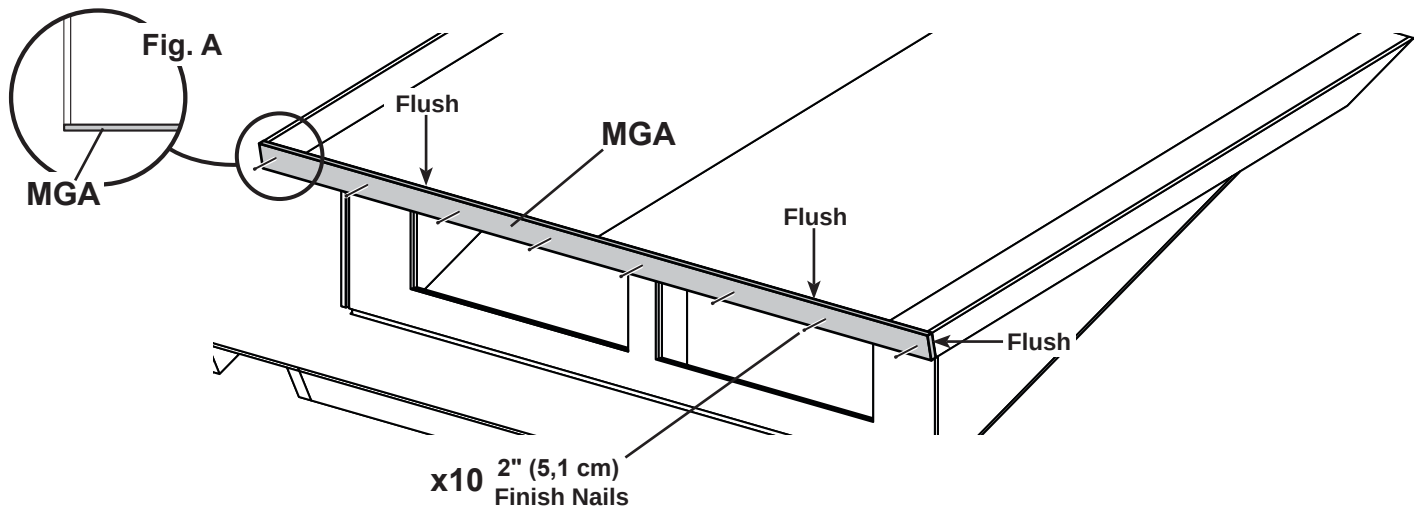
2 Secure with 2" finish nails.

3 Repeat **Steps 1-2** for **MHL**.



4 Place **MGA** flush with roof panels and flush with **MHR** and **MHL** (**Fig. A**).

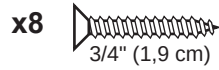
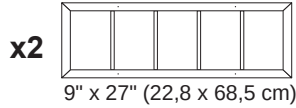
5 Secure with (10) 2" finish nails.



6 You have finished installing your dormer fascia trim.

DORMER WINDOWS

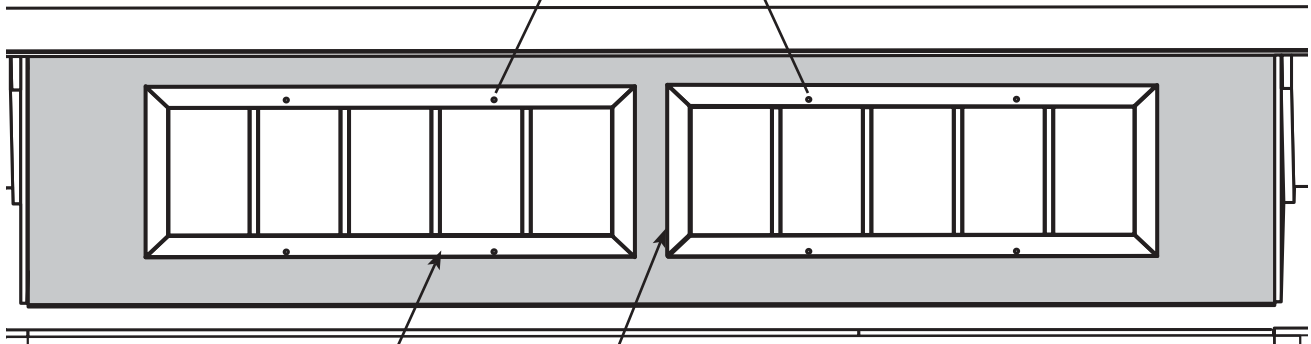
PARTS REQUIRED:



✓ BEGIN

- 1 Seal windows with high-quality exterior-grade caulk before installing.
- 2 Attach windows using (4) 3/4" (1,9 cm) screws as shown.

x4 3/4" Screws per window



HINT: Caulk behind frame near edge before installing.



You must caulk around windows to validate warranty.

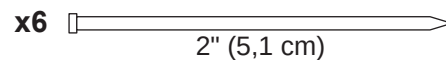
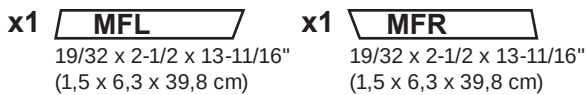


FINISH

- 3 You have finished installing your dormer windows.

DORMER TRIM

PARTS REQUIRED:

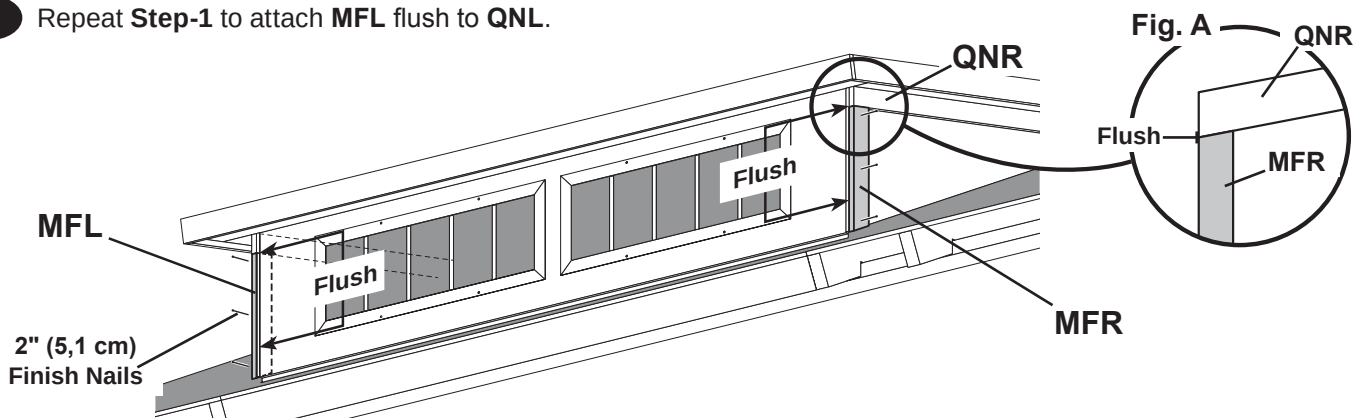


✓ BEGIN



Ensure all dormer trim parts are facing *primed side out*.

- 1 Place **MFR** flush to **QNR** and front dormer panel (**Fig. A**). Secure with 2" finish nails.
- 2 Repeat **Step-1** to attach **MFL** flush to **QNL**.



DORMER TRIM

PARTS REQUIRED:

x1 **QMA**

19/32 x 3-1/2 x 9"
(1,5 x 8,9 x 22,9 cm)

x1 **MCA**

19/32 x 2-1/2 x 62" (1,5 x 6,3 x 157,5 cm)

x2 **EY**

19/32 x 2-1/2 x 9"
(1,5 x 6,3 x 22,9 cm)

x2 **MEA**

19/32 x 2-1/2 x 15-1/2"
(1,5 x 6,3 x 39,4 cm)

x1 **MJA**

19/32 x 2-1/2 x 68-7/8" (1,5 x 6,3 x 174,9 cm)

x29

2" (5,1 cm)

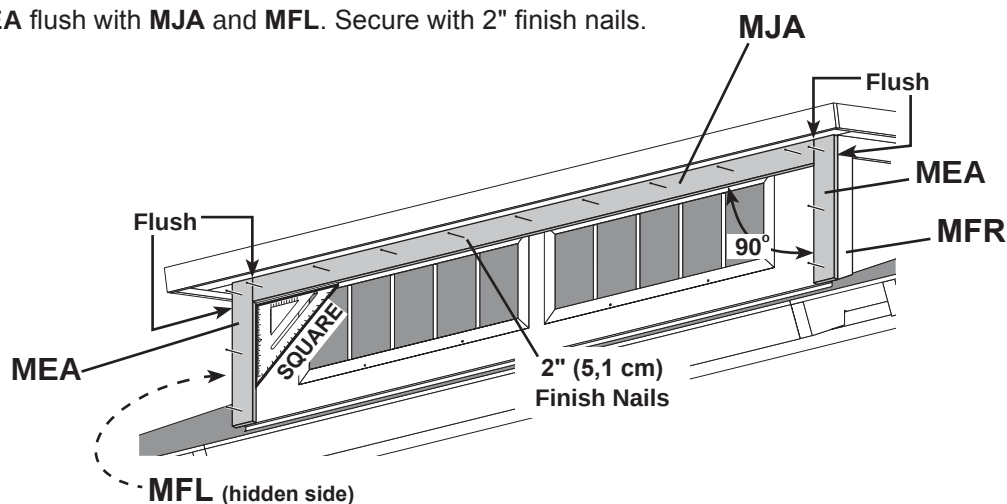


! Ensure all dormer trim parts are facing *primed side out*.

3 Place **MEA** flush up to dormer front soffit and **MFR**. Secure with 2" finish nails.

4 Place **MJA** flush up to front soffit and **MEA**. Secure with 2" finish nails.

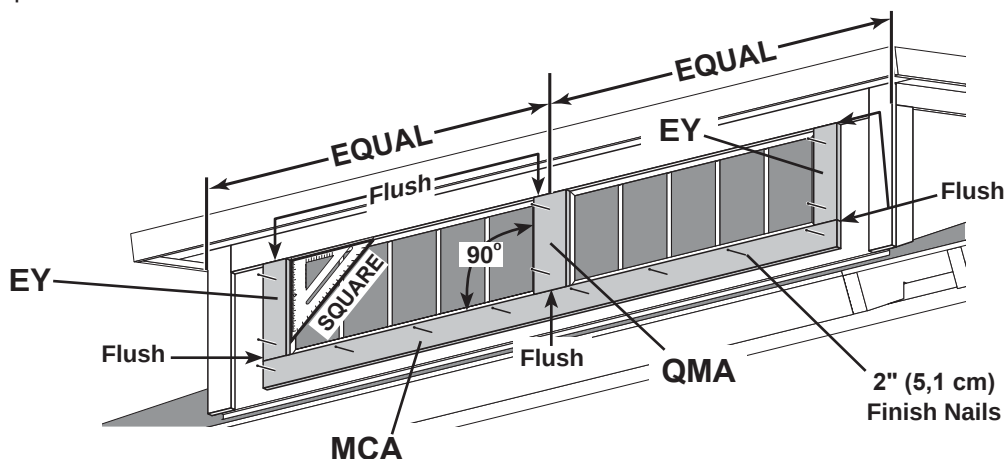
5 Place second **MEA** flush with **MJA** and **MFL**. Secure with 2" finish nails.



6 Place **QMA** centered and flush up to installed top window trim **MJA**. Secure with 2" finish nails.

7 Place **EY** square and flush up to **MJA**. Secure with 2" finish nails.
Place second **EY** square and flush up to **MJA**. Secure with 2" finish nails.

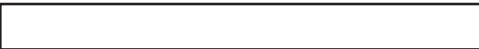
8 Place **MCA** bottom window trim flush up to installed **EY** and **QMA**. Ensure **MCA** is flush with **EY** at ends. Hold in place and secure with 2" finish nails.

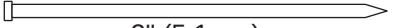


9 You have finished installing your dormer trim.

GABLE END SOFFITS

PARTS REQUIRED:

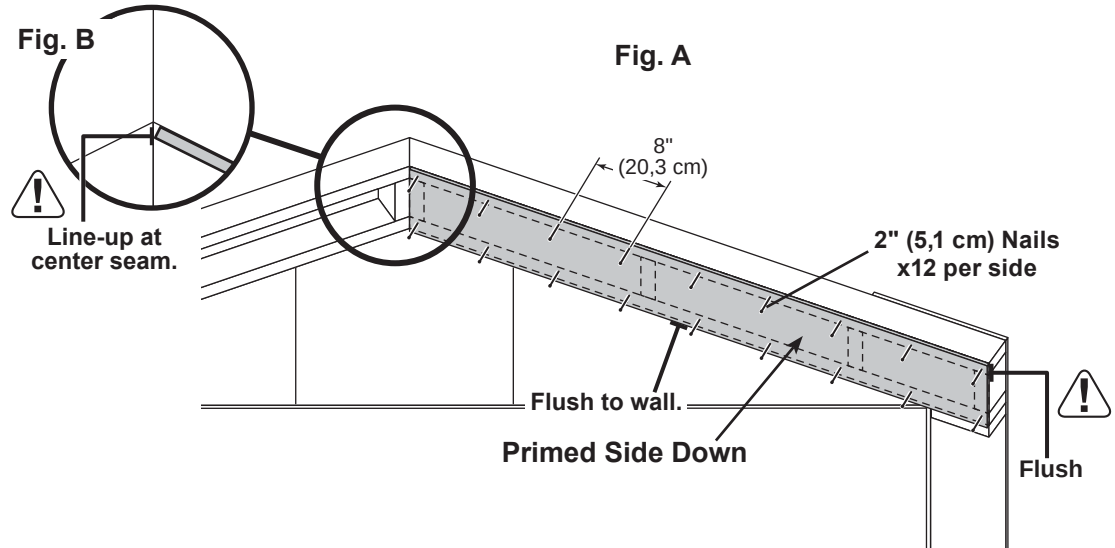
x4 
3/8 x 7-7/8 x 73-5/16" (1 x 20 x 186,2 cm)

x72  2" (5,1 cm)

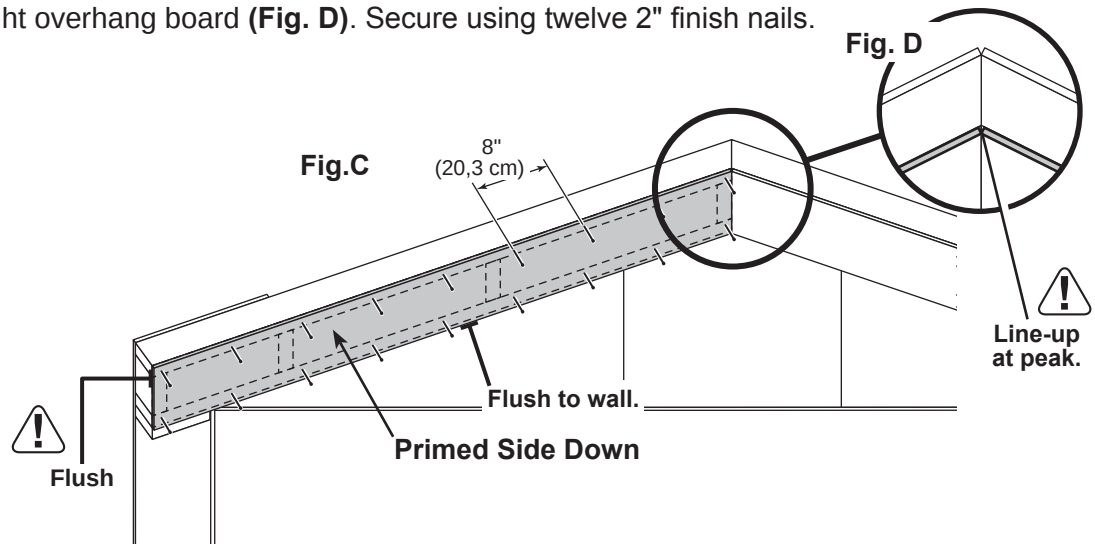


✓ **BEGIN**  **Ensure soffit boards are lined-up at seam (Fig. B) and at peak (Fig. D).**

- 1 Position right **73-5/16"** overhang board **Primed Side Down** flush to front wall (**Fig A**) and gable panel seam (**Fig B**). Secure using twelve 2" finish nails.



- 2 Position left **73-5/16"** overhang board **Primed Side Down** flush to front wall (**Fig C**), gable end and right overhang board (**Fig. D**). Secure using twelve 2" finish nails.



- 3 Repeat **Steps 1-2** to attach soffit boards on the opposite side.

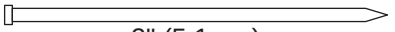


- 4 You have finished installing your soffit panels.

EAVE SIDE SOFFITS

PARTS REQUIRED:

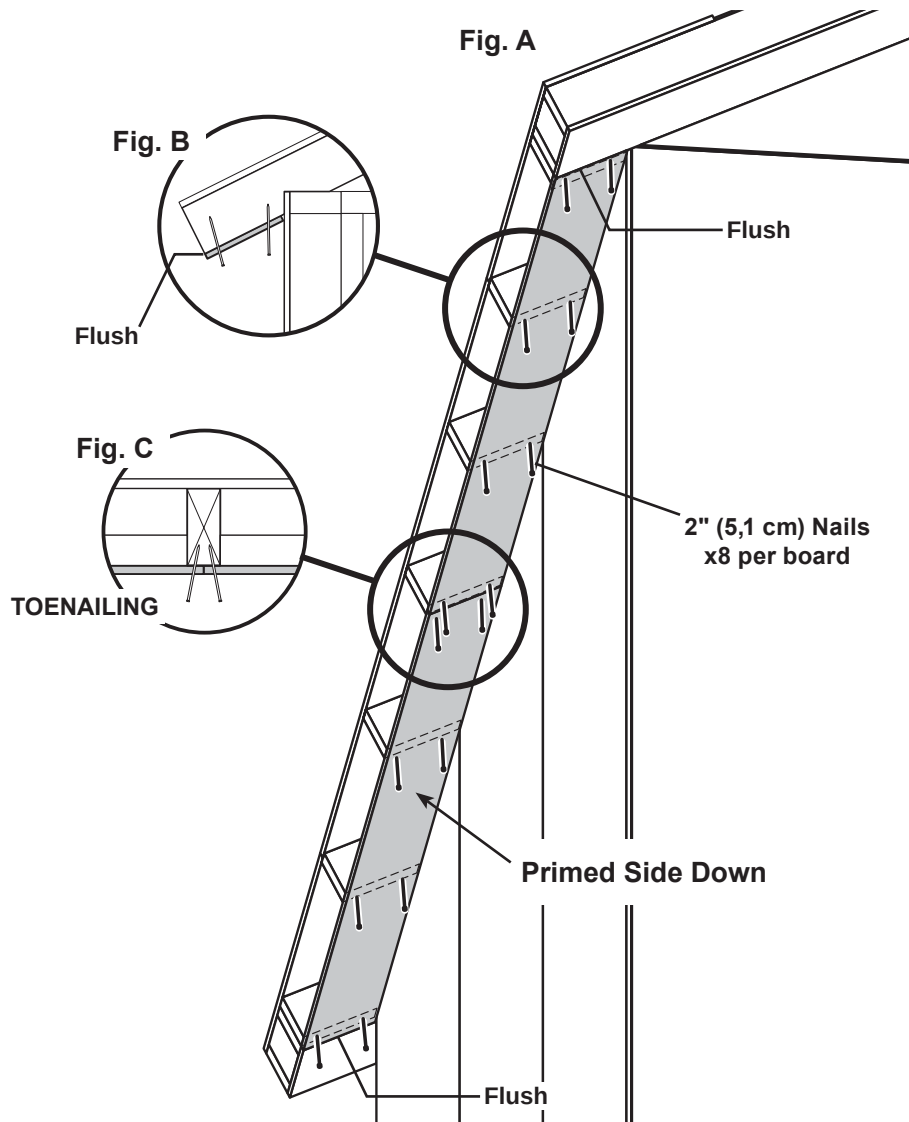
x4 
3/8 x 5-7/8 x 72-3/4" (1 x 14,9 x 184,8 cm)

x32 
2" (5,1 cm)



✓ **BEGIN**  **Ensure soffit boards are flush at rafter ends (Fig. B) and flush at seams.**

- 1 Position **72-3/4"** soffit boards **primed side down** flush to gable soffits and rafter ends (**Fig A**). Toenail at center seam (**Fig. C**). Secure using eight 2" finish nails, two in each rafter.



- 2 Repeat **Step 1** to attach eave side soffit boards on the opposite side.



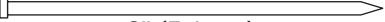
- 3 You have finished installing your eave side soffit panels.

GABLE FASCIA

PARTS REQUIRED:

x2  **Painted Red**
3/8 x 4-3/4 x 75-7/8" (1 x 12,1 x 192,7 cm)

x2  **Painted Green**
3/8 x 4-3/4 x 75-7/8" (1 x 12,1 x 192,7 cm)

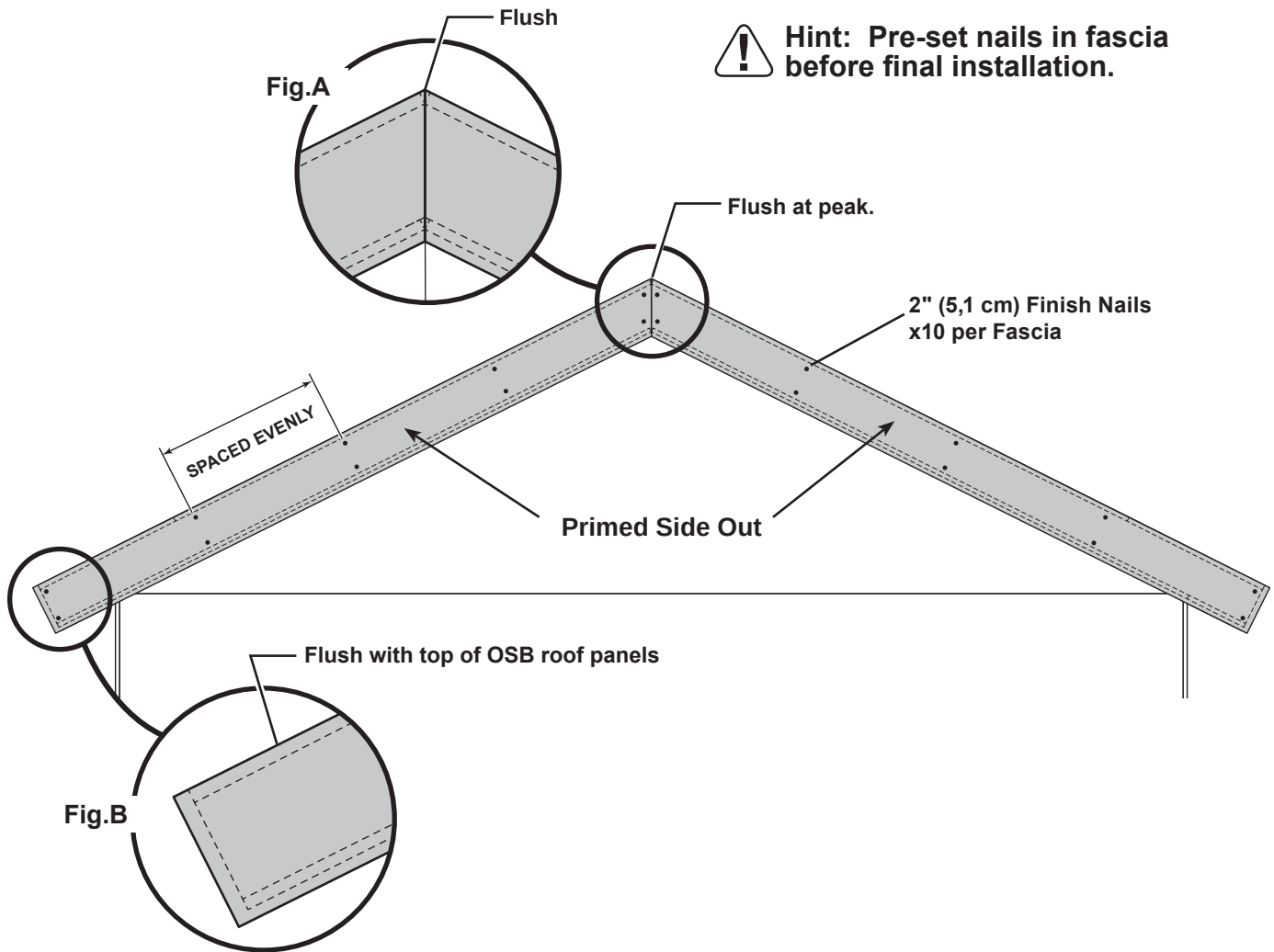
x40  2" (5,1 cm)



✓ BEGIN

- 1** Position fascia with **primed side out** and flush to peak and roof panels as shown (**Fig. A, Fig B**). Secure using 2" finish nails spaced evenly as shown.
- 2** Repeat **Step 1** on opposite side with other fascia.

 **Hint: Pre-set nails in fascia before final installation.**



- 3** Repeat **Steps 1-2** to attach fascia boards on the other gable end.



- 4** You have finished installing your gable fascia.

EAVE SIDE FASCIA

PARTS REQUIRED:

x4 
3/8 x 4-3/4 x 80-5/8" (1 x 12,1 x 204,8 cm)

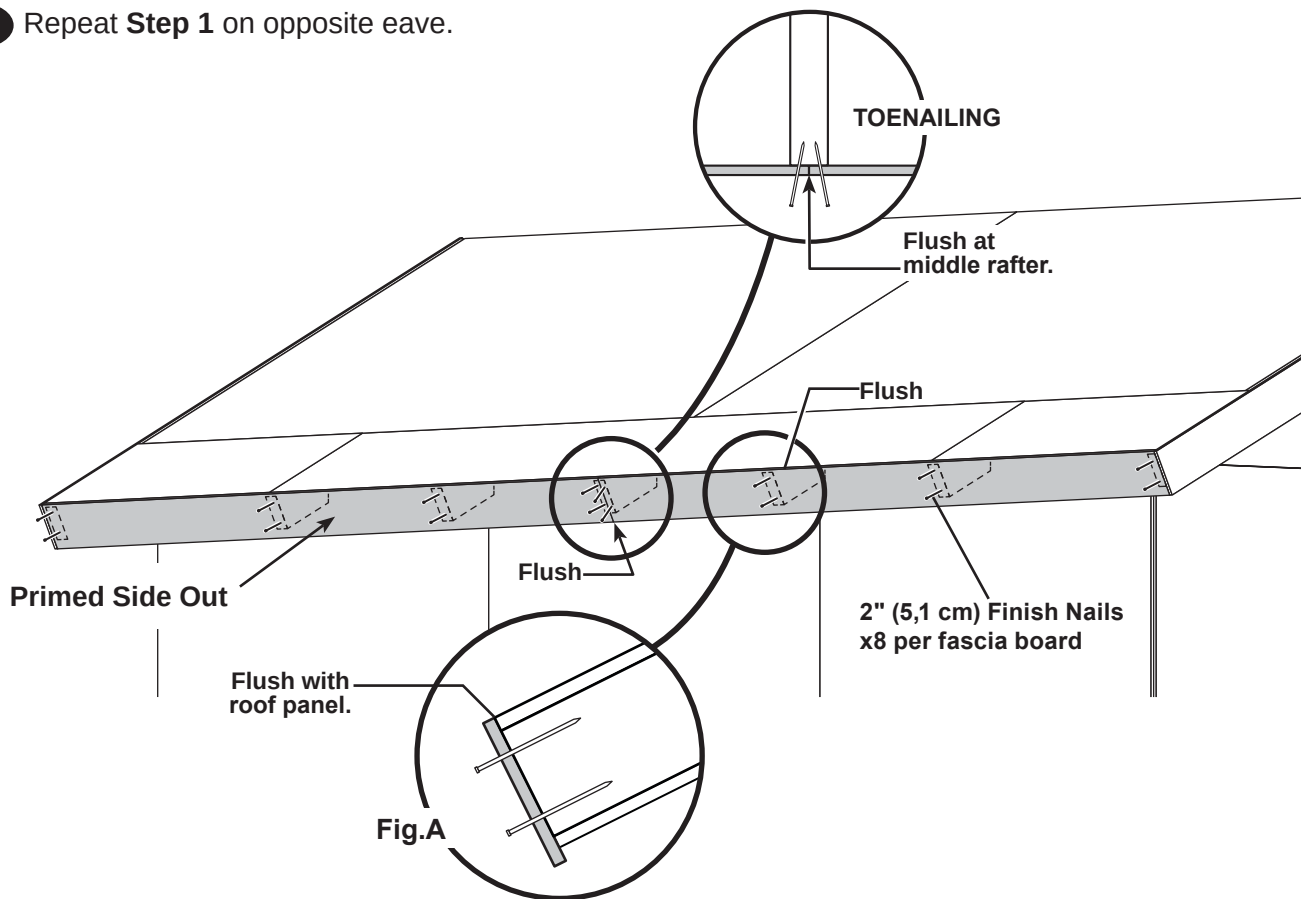
x32  2" (5,1 cm)



✓ BEGIN

1 Position two **4-3/4" x 80-5/8"** fascia boards with **primed side out**, flush with roof panels and gable fascia as shown (**Fig. A**). Secure using 2" finish nails into rafter ends.

2 Repeat **Step 1** on opposite eave.

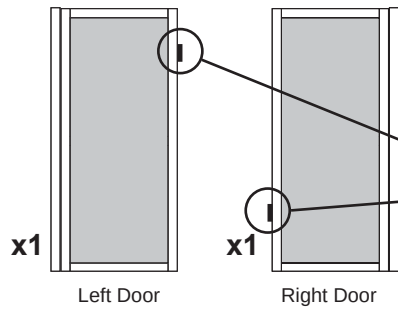


FINISH

3 You have finished installing your eave side fascia.

DOORS

PARTS REQUIRED:



x1 **GAA**

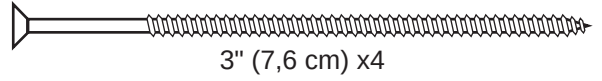
1 x 3 x 5" (2,5 x 7,6 x 12,7 cm)

x1

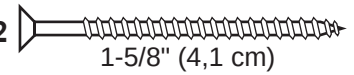
OO TEMPORARY SUPPORT

1-1/2 x 2-1/2 x 69" (3,8 x 7,6 x 175,3 cm)

x4



x2

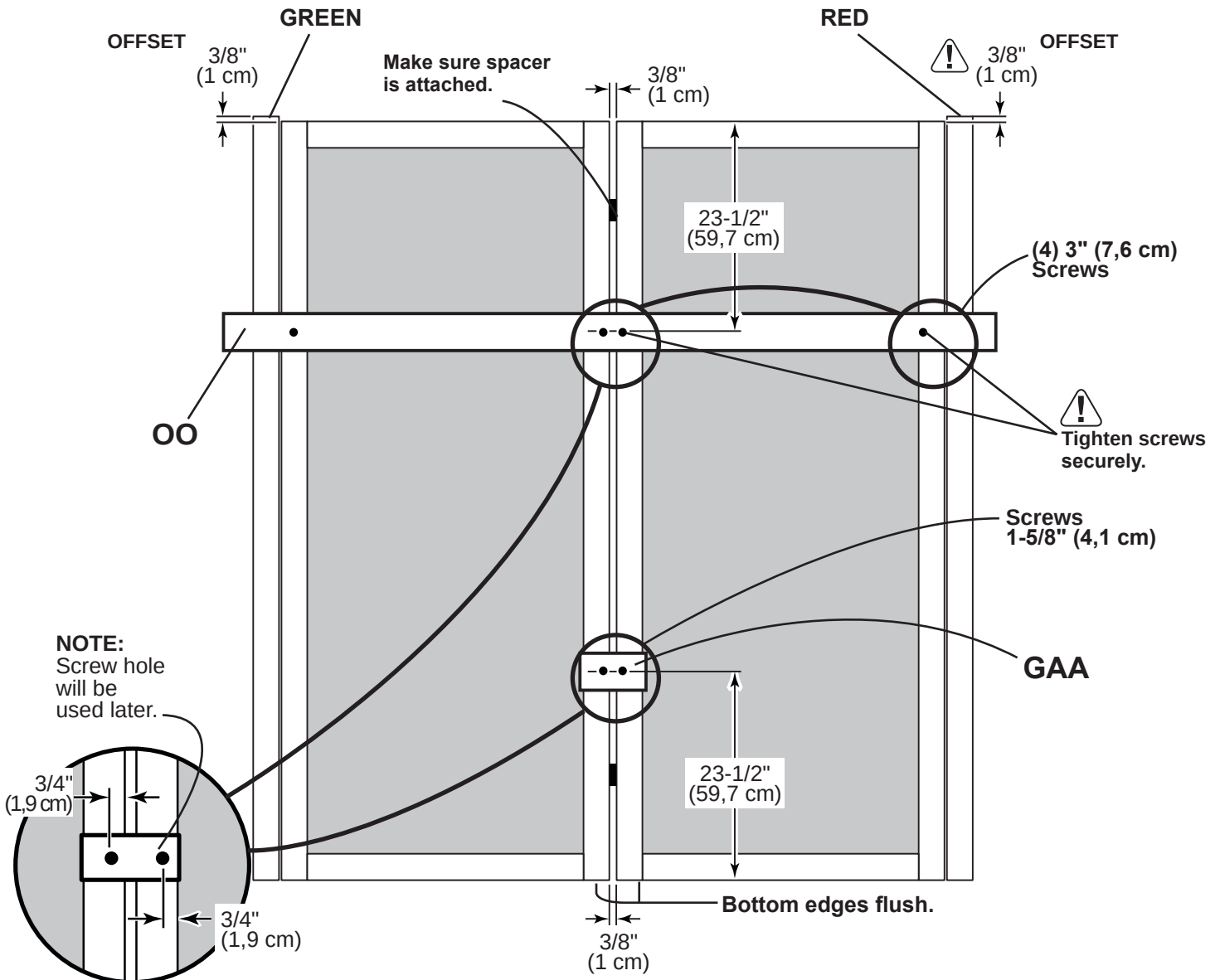


HINT:
Look for 3/8" SPACER
attached to doors.



BEGIN

- 1 Orient parts as shown on flat surface. **3/8" offset is to top.** Look for red (right) and green (left) on hinge board.
- 2 Attach temporary support **OO** with 3" screws in middle and at ends as shown. Tighten securely.
- 3 Attach temporary support **GAA** with two 1-5/8" screws as shown. Tighten securely.



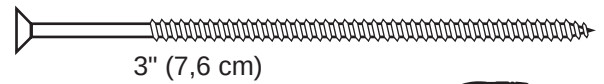
DOORS

PARTS REQUIRED:

x1 **OO** TEMPORARY SUPPORT

1-1/2 x 2-1/2 x 69" (3,8 x 7,6 x 175,3 cm)

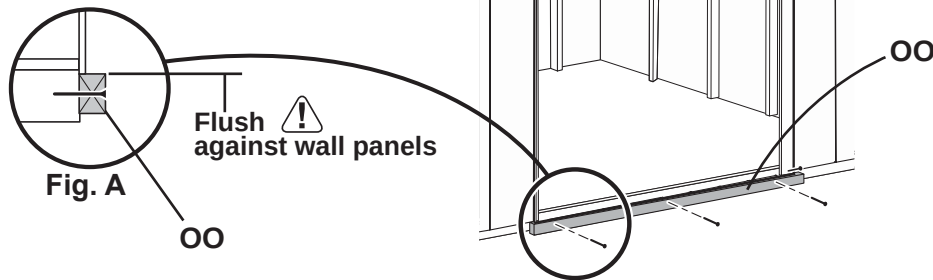
x13



3" (7,6 cm)



- 4 Attach temporary support **OO** as a ledger board flush under wall panels for doors to rest on using 3" screws (**Fig. A**).



- 5 Center doors on panel seam as shown (**Fig. B**).

⚠ Check ledger board is still flush under panels.

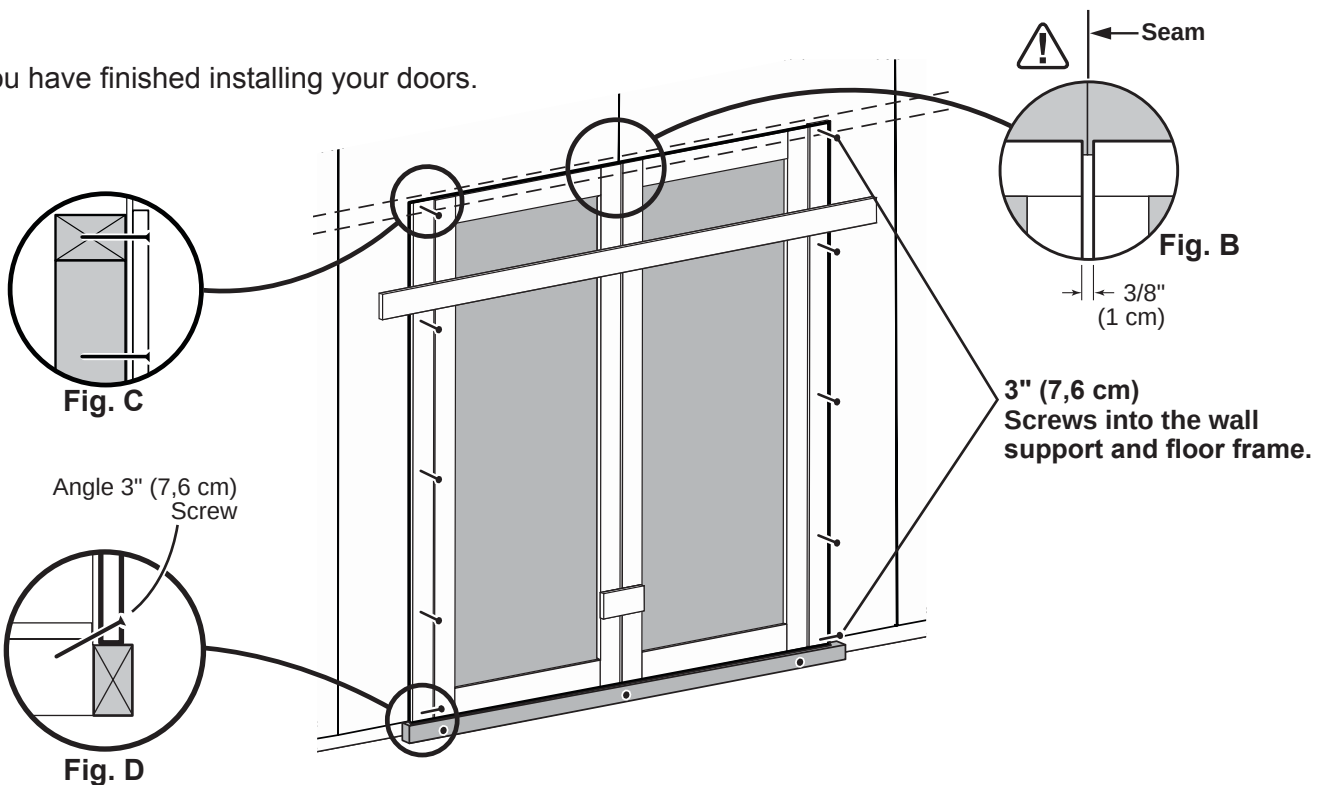
- 6 Screw hinge boards into wall frame and floor using ten 3" screws as shown.

⚠ Make sure screws go into framing and floor (**Fig. C, D**).

- 7 Remove temporary supports and check doors open properly.



- 8 You have finished installing your doors.



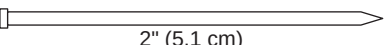
DOORS

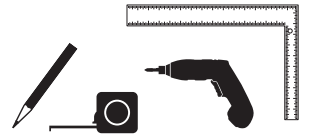
PARTS REQUIRED:

x4 **GI**
19/32 x 3 x 23" (1,5 x 7,6 x 58,4 cm)

x1 **QLA**
19/32 x 4 x 64" (1,5 x 10,2 x 162,6 cm)

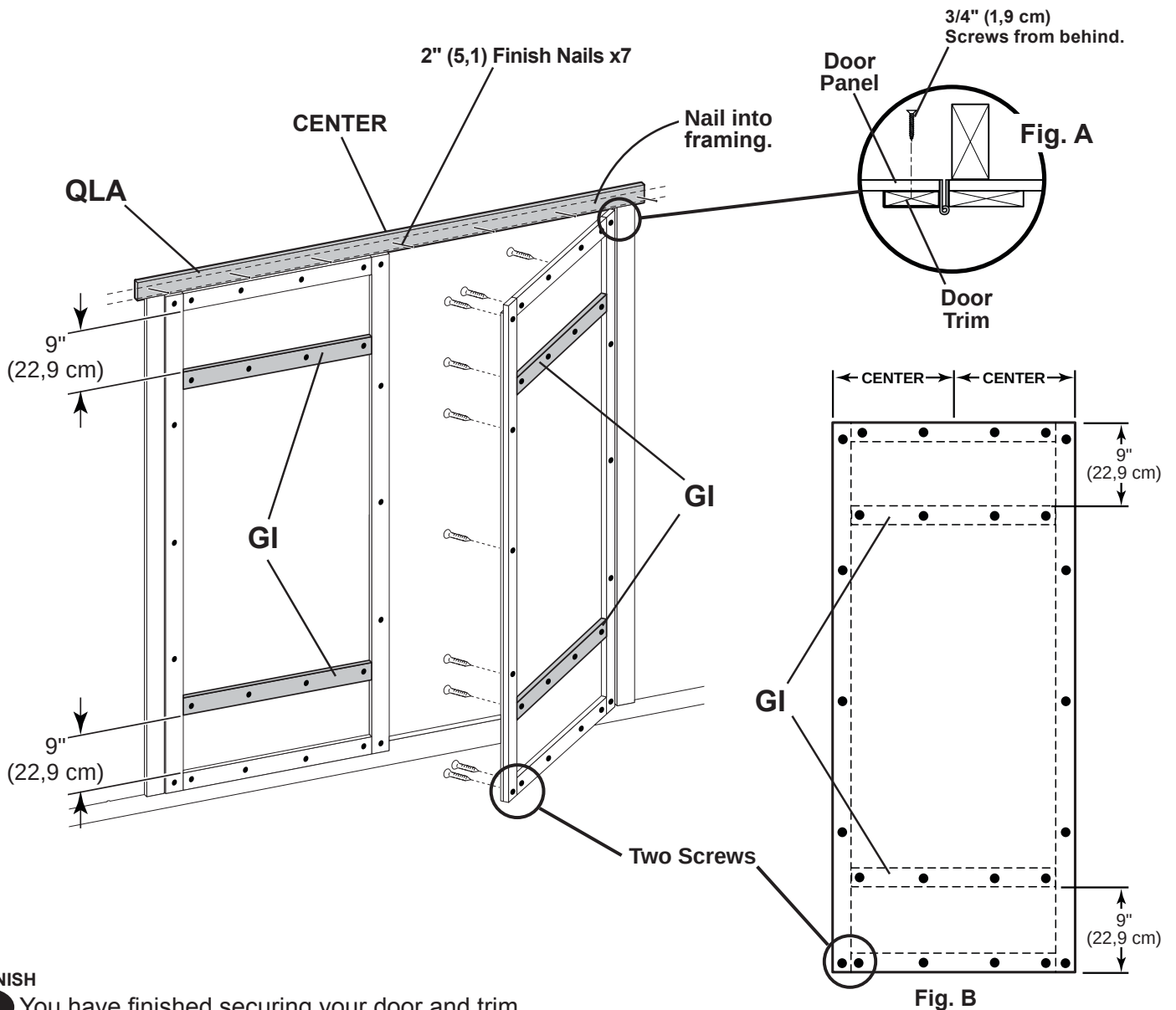
x52 
3/4" (1,9 cm)

x7 
2" (5,1 cm)



✓ BEGIN

- 1** Secure door trim from inside using 3/4" screws as shown (**Fig. A**).
- 2** Secure two horizontal door rails **GI** with four 3/4" screws from behind to center of doors as shown.
- 3** Reinforce the door trim using 3/4" screws through door panel into trim (**Fig. A**). Locate screws as shown in (**Fig. B**). Use two screws at seams.
- 4** Center trim **QLA** over doors and secure using seven 2" finish nails into framing as shown.



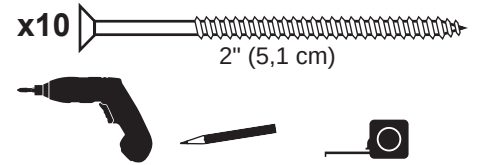
FINISH

- 5** You have finished securing your door and trim.

DOOR WEATHERSTRIP

PARTS REQUIRED:

x2 **OO**
1-1/2 x 2-1/2 x 69" (3,8 x 7,6 x 175,3 cm)



✓ BEGIN

- 1 With left door closed, center a weatherstrip **OO** vertically on the left door in the door opening (**Fig. A**). **OO** will offset the left door 1" OUT past the door trim 1" (**Fig. B**).
- 2 Secure **OO** using five 2" screws through outside trim into **OO** (**Fig. B**)
- 3 On right door center **OO** vertically in door opening (**Fig. A**). **OO** will offset the right door 1" IN from the door trim (**Fig. C**).
- 4 Secure **OO** using five 2" screws through outside trim into **OO** (**Fig. C**).



FINISH

- 5 You have finished installing your door weatherstrips.

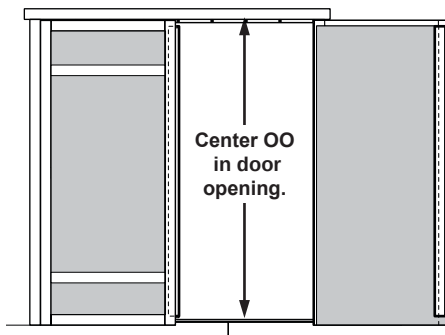


Fig. A

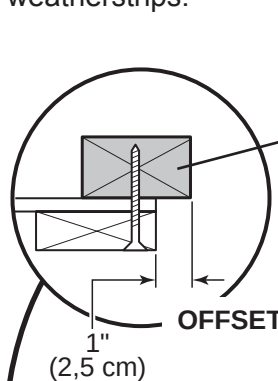


Fig. B

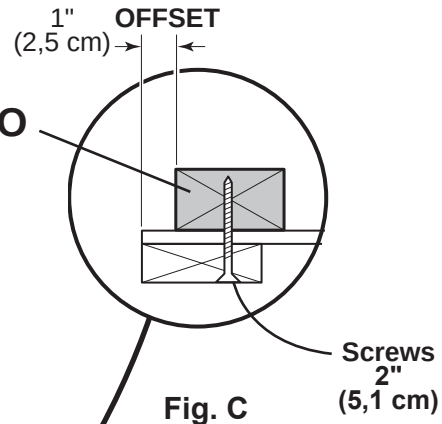
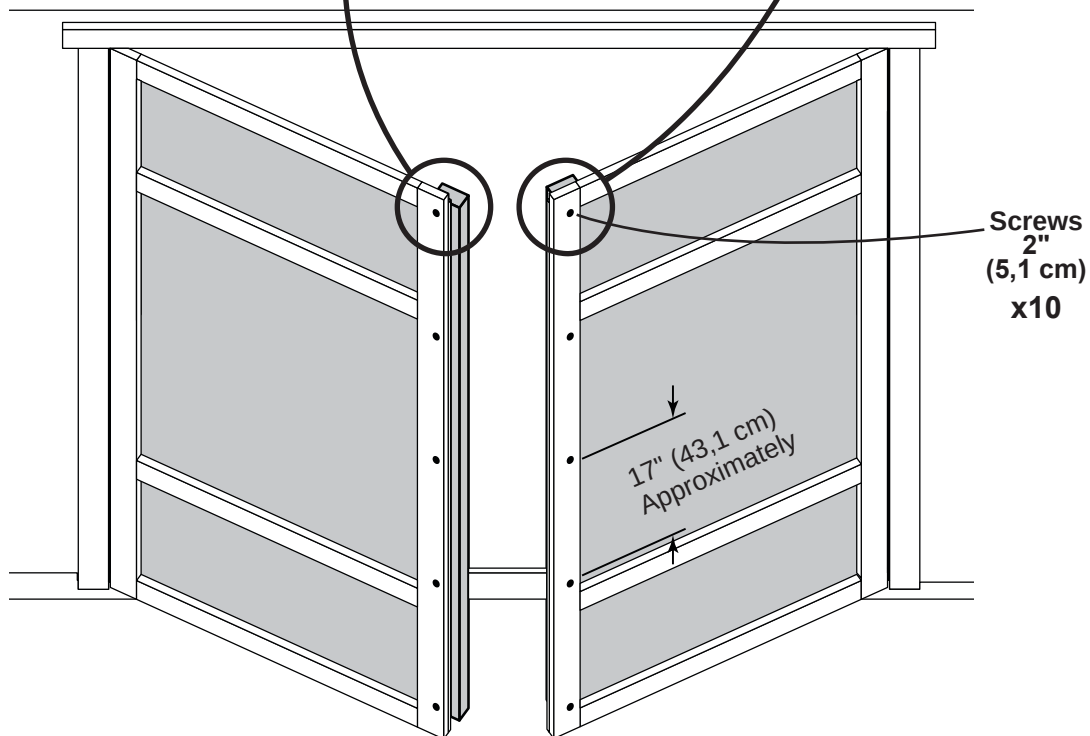
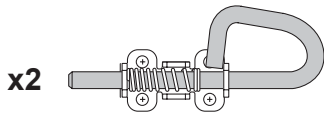


Fig. C



DOOR

PARTS REQUIRED:



x8 1" (2,5 cm)



✓ BEGIN

- 1 Place bolt onto **OO** in open position with bolt end 3/8" down from frame.
Bolt is open when loop is contacting base (**Fig A**).
Mark and pre-drill holes for screws.
- 2 Install bolt with screws supplied and drill 5/16" hole for bolt to extend into.
- 3 Place bolt onto **OO** in open position with bolt end 1/2" up from floor.
Bolt is open when loop is contacting base (**Fig B**).
Mark and pre-drill holes for screws.
- 4 Install bolt with screws supplied and drill 5/16" hole for bolt to extend into.

FINISH

- 5 You have finished installing your barrel bolts.

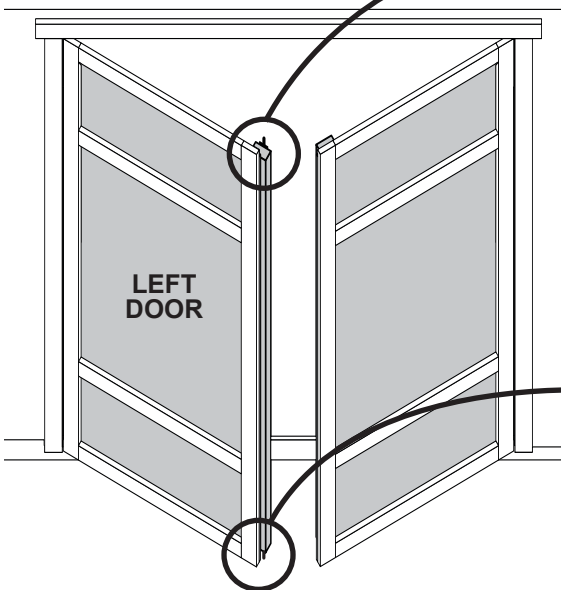


Fig. A

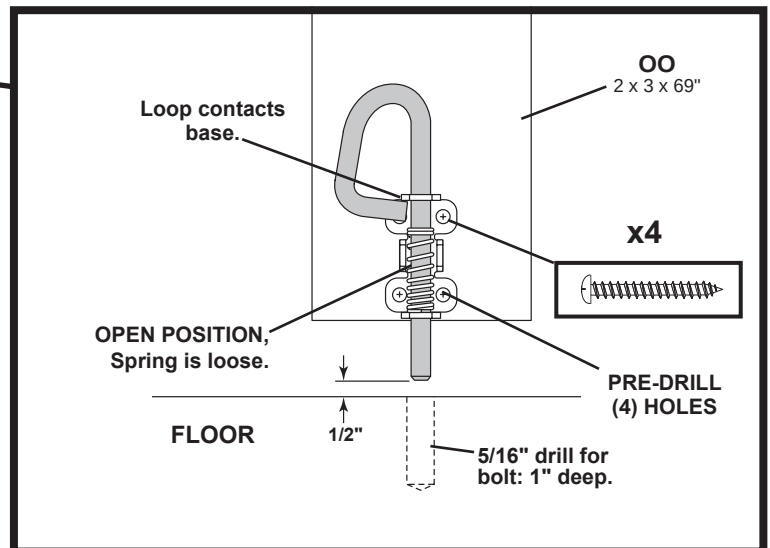
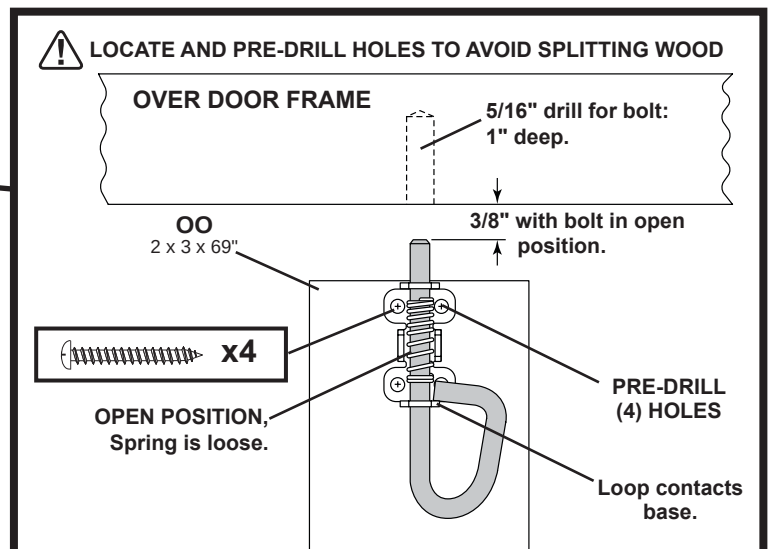
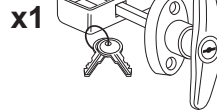


Fig. B

DOOR HARDWARE

PARTS REQUIRED:

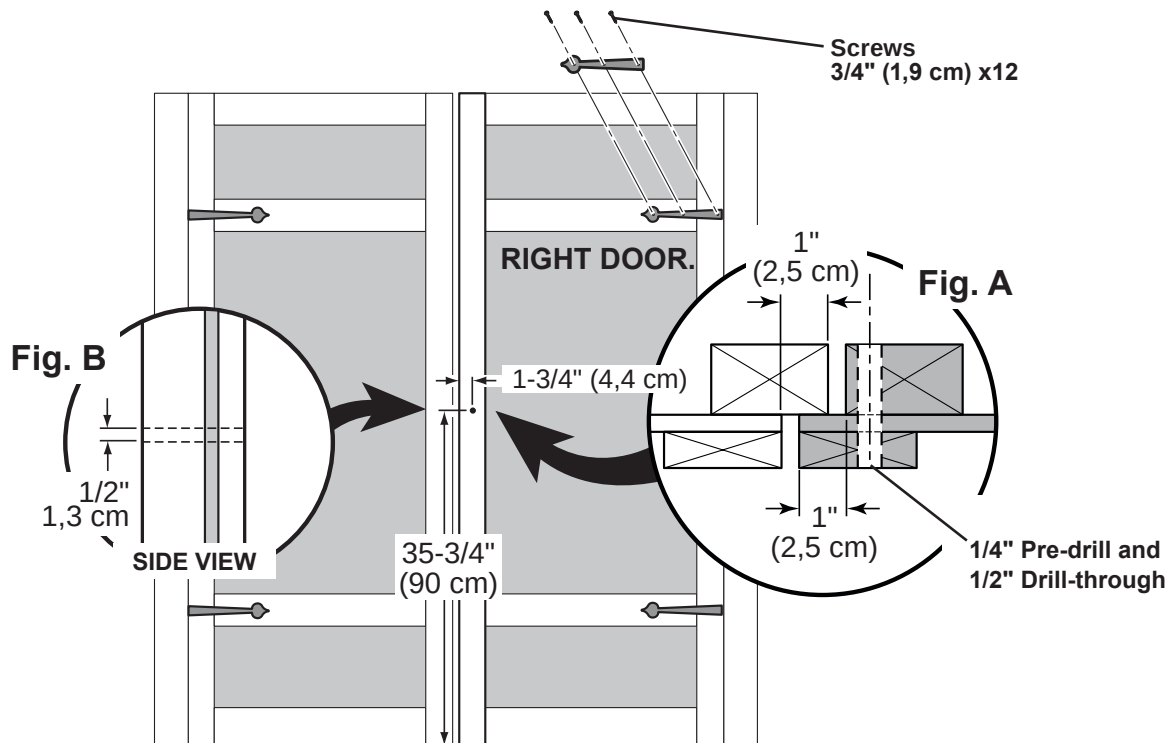


1/2" (13 mm) Drill Bit
1/4" (6 mm) Drill Bit



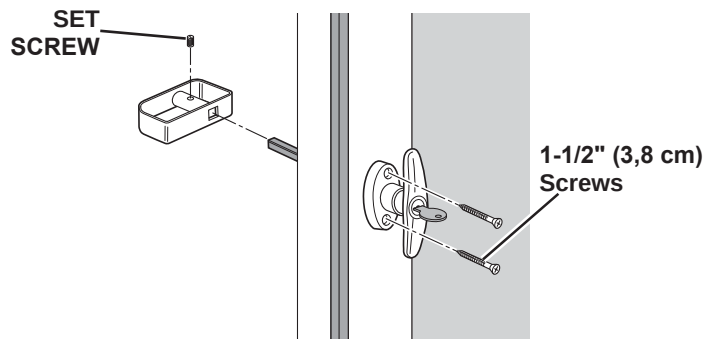
✓ BEGIN

- 1 Measure and mark location of hole on outside of right door as shown (Fig. A).
Pre-drill hole with 1/4" drill.
 - 2 Re-drill hole with 1/2" drill (Fig. B).
-  Keep drilled hole square to trim to avoid breaking edge of 1-1/2" x 2-1/2" door stiffener.



- 3 Insert handle in hole and secure using 1-1/2" (3,8 cm) screws.

- 4 Attach inside handle and secure with set screw as shown.



- 5 Install decorative hinges on horizontal trim and flush against hinge as shown.

FINISH

- 6 You have finished preparing your door for door handle.

CORNER TRIM

PARTS REQUIRED:

- x4**  3/8 x 1-3/4 x 82-1/2" (1 x 4,4 x 209,6 cm)
- x4**  3/8 x 1-3/4 x 81-7/8" (1 x 4,4 x 208 cm)



x48

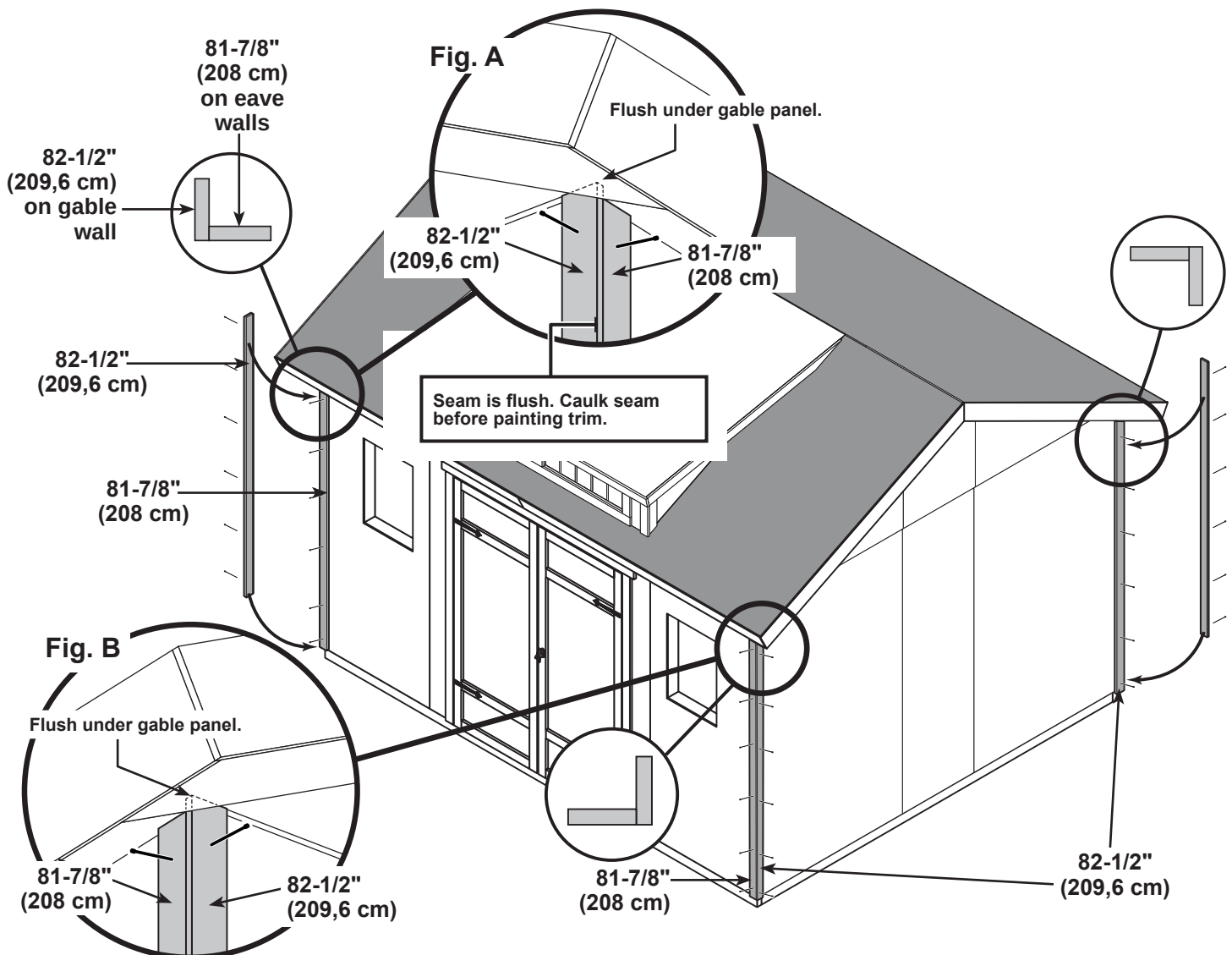
2" (5,1 cm)

BEGIN

- 1 Attach one **81-7/8"** trim board flush under soffit panel and against eave wall (**Fig. A, B**) using one 2" finish nail at top as shown.
- 2 Position **82-1/2"** trim board flush along edge of **81-7/8"** trim board and flush under gable panel (**Fig. A, B**). Secure using one 2" finish nail at top as shown.
Finish attaching trim flush to corners (**Fig. B**) using six 2" (5,1 cm) finish nails as shown.
- 3 Repeat **Steps 1-2** to attach trim to all four corners.

FINISH

- 4 You have attached your corner trim.

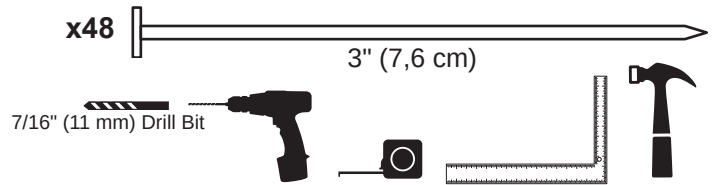


LOFT

PARTS REQUIRED:

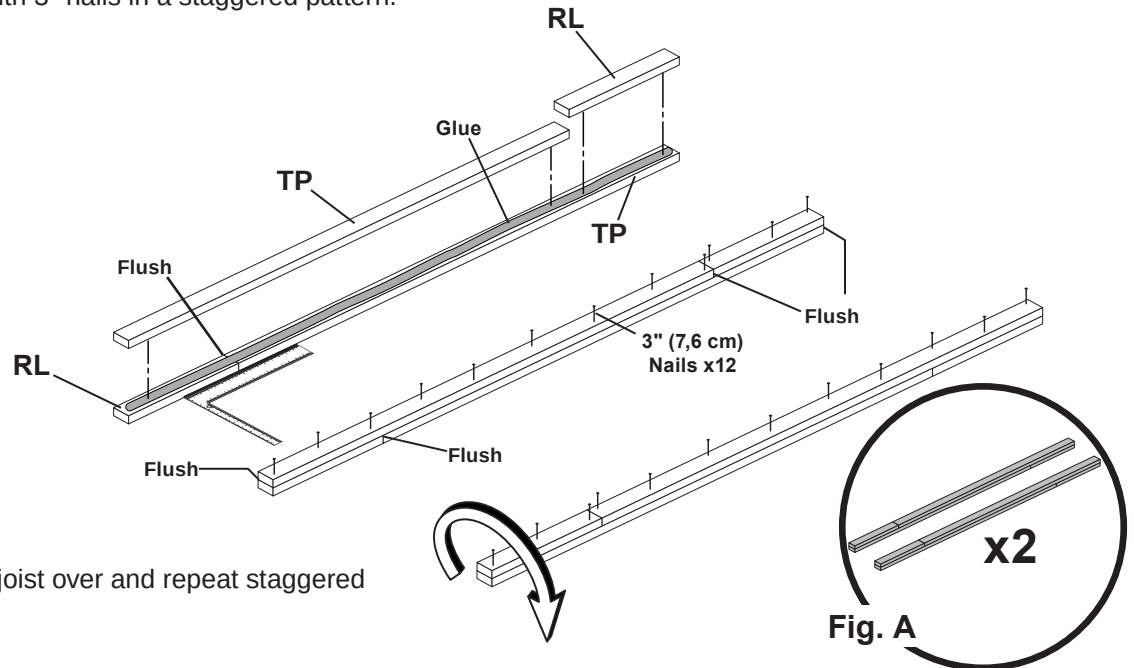
x2 **RL**
2 x 4 x 24" (5,1 x 10,2 x 61 cm)

x2 **TP**
2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)



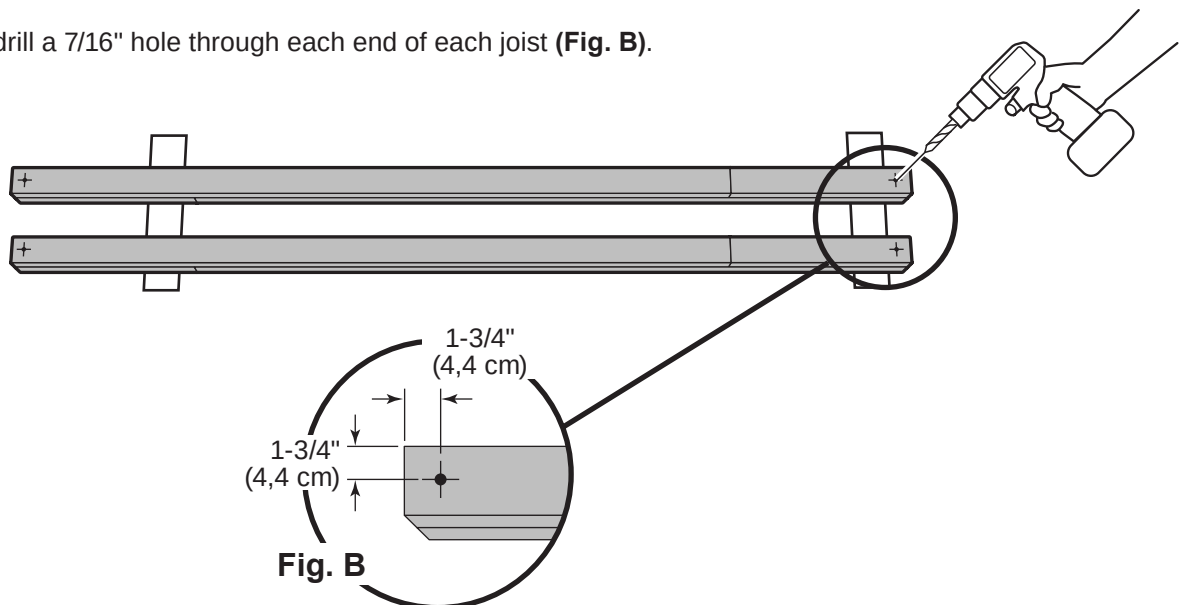
✓BEGIN

- 1 Orient parts **TP** and **RL** on a flat surface. Spread glue across **RL** and **TP** as shown. Hold parts **TP** and **RL** flush and aligned.
- 2 Assemble joist with 3" nails in a staggered pattern.



- 3 Turn assembled joist over and repeat staggered nail pattern.

- 4 Support and drill a 7/16" hole through each end of each joist (**Fig. B**).



LOFT

PARTS REQUIRED:

x1 **RL**

2 x 4 x 24" (5,1 x 10,2 x 61 cm)

x1 **TP**

2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)

x1 **Pre-Assembled Loft Joist**

2 x 4 x 119-7/8" (5,1 x 10,2 x 304,5 cm)

x14 3" (7,6 cm)

7/16" (11 mm) Drill Bit

(NOT ACTUAL SIZE)

x2 3/8" x 5-1/2" (1 cm x 14 cm)

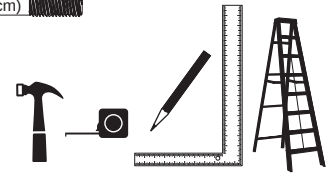
Hex Bolt

x4 3/8" (1 cm)

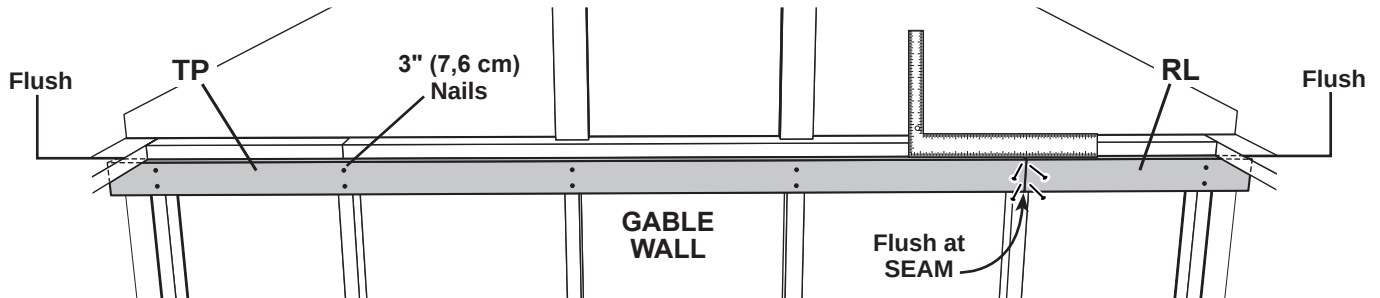
Flat Washer

x2 3/8" (1 cm)

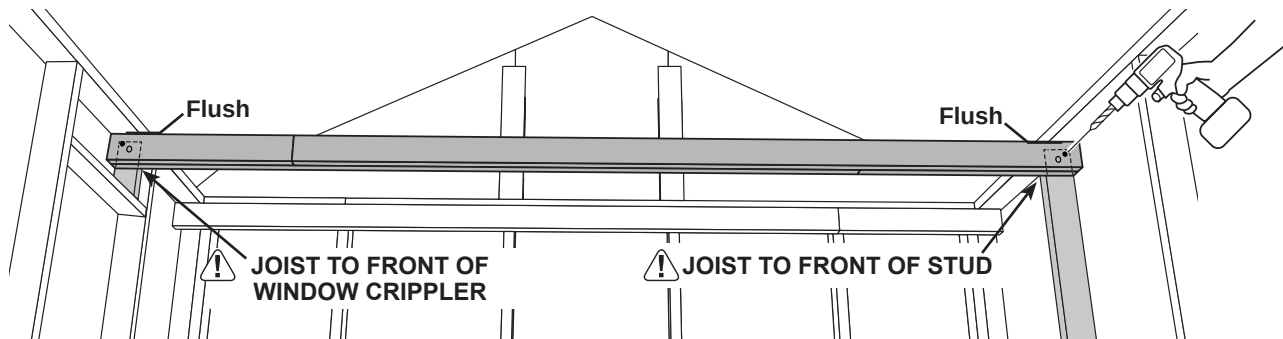
Lock Nut



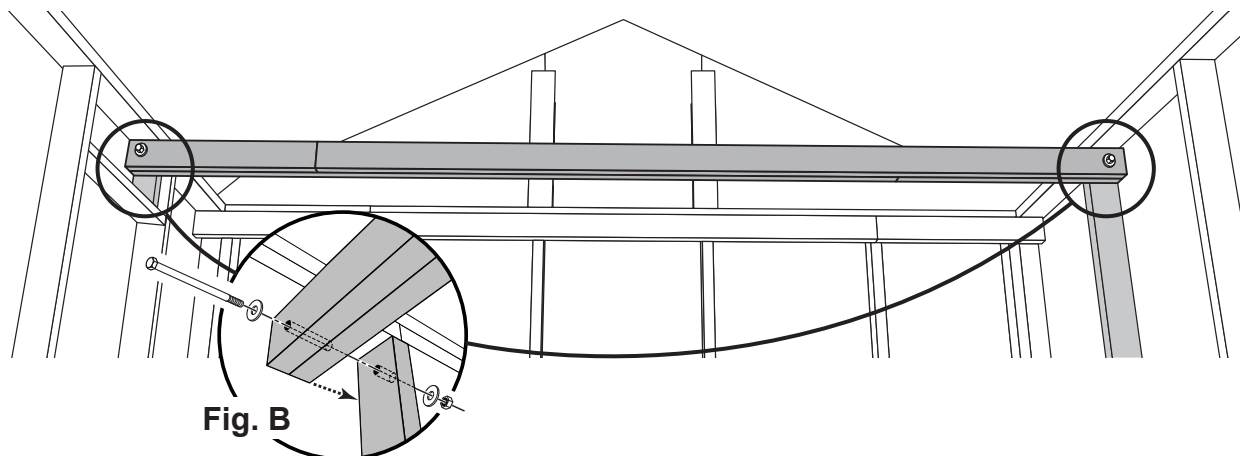
- Locate **TP** and **RL** flush to bottom of top plate and aligned at seam. Secure with 3" (7,6 cm) nails at wall studs and seam.



- Clamp or hold **Pre-Assembled Loft Joist** in place flush against window crippler and back wall stud. Ensure **Pre-Assembled Loft Joist** is flush beneath top plates. Drill through wall stud with 7/16" drill bit using hole in **Pre-Assembled Loft Joist** as a guide.



- Line up holes of **Pre-Assembled Loft Joist** with holes in crippler and stud. Secure joist with hex bolts, flat washers and lock nuts at both sides (**Fig. B**). Tighten lock nuts securely.



LOFT

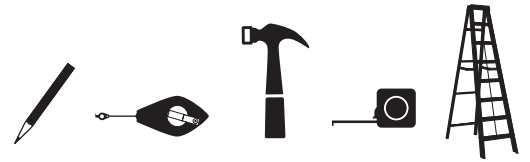
PARTS REQUIRED:

x1

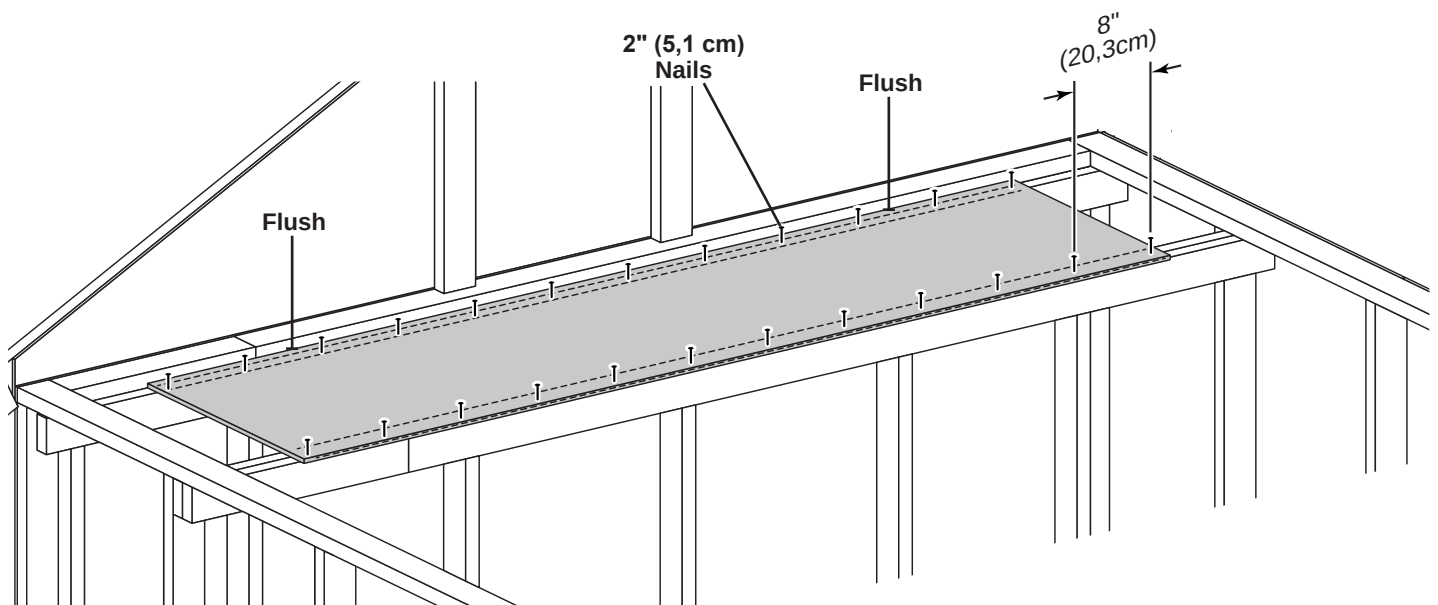


23-7/8" x 96" (60,6 x 243,8cm)

x24 2" (5,1 cm)



- 8 Install loft panel centered over loft joists. Secure with 2" (5,1 cm) nails 8" (20,3 cm) apart. There will be a gap of approximately 8-1/2" on either side.



Attention:
Load not to exceed
400 lbs (181 kg) evenly
distributed across loft.



9

You have finished installing your Loft.

SHELF

PARTS REQUIRED:

x6 **PHA**

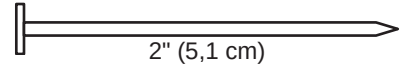
2 x 3 x 6-5/8" (5,1 x 7,6 x 16,8 cm)

x6



3/8 x 7-1/2 x 10-1/8" (1 x 19,1 x 25,7 cm)

x36

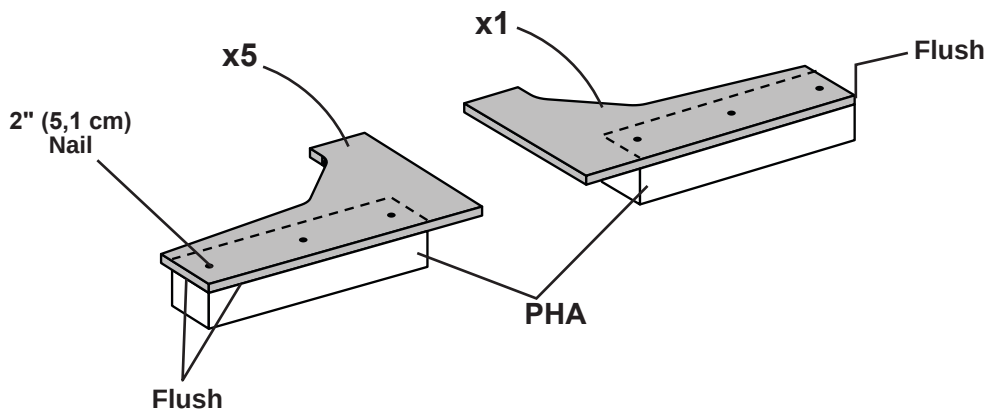


NOTE: Build the shelf and loft on the gable wall farthest from the door location.

✓ **BEGIN**

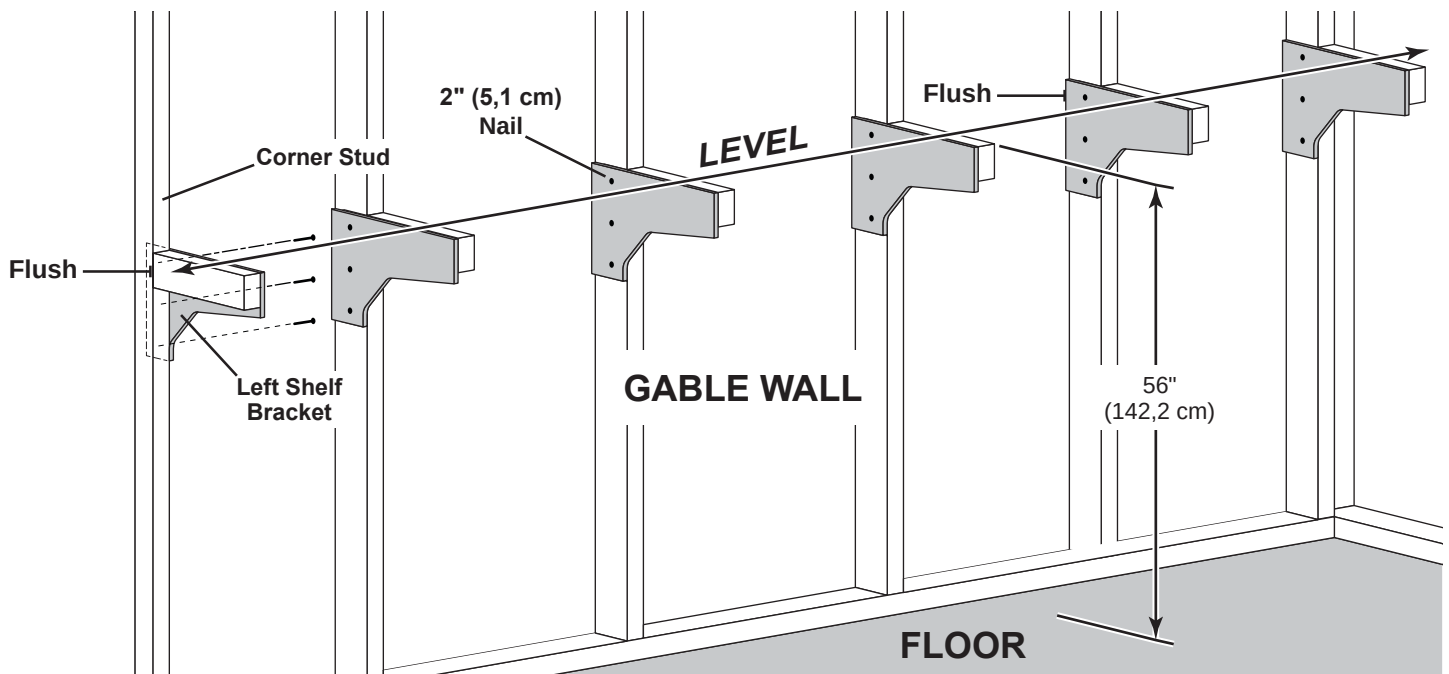
1

Secure **PHA** to bracket panels using three 2" (5,1 cm) nails.
Assemble 6 shelf supports as shown; 5 right-side, 1 left-side.



2

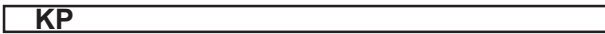
Secure shelf supports at shown height with three 2" (5,1 cm) nails.



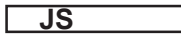
SHELF

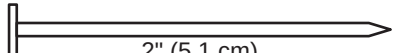
PARTS REQUIRED:

x1 
7/16 x 7-7/8 x 96" (1,1 x 20 x 243,8 cm)

x1 **KP** 
1 x 4 x 96" (2,5 x 10,2 x 243,8 cm)

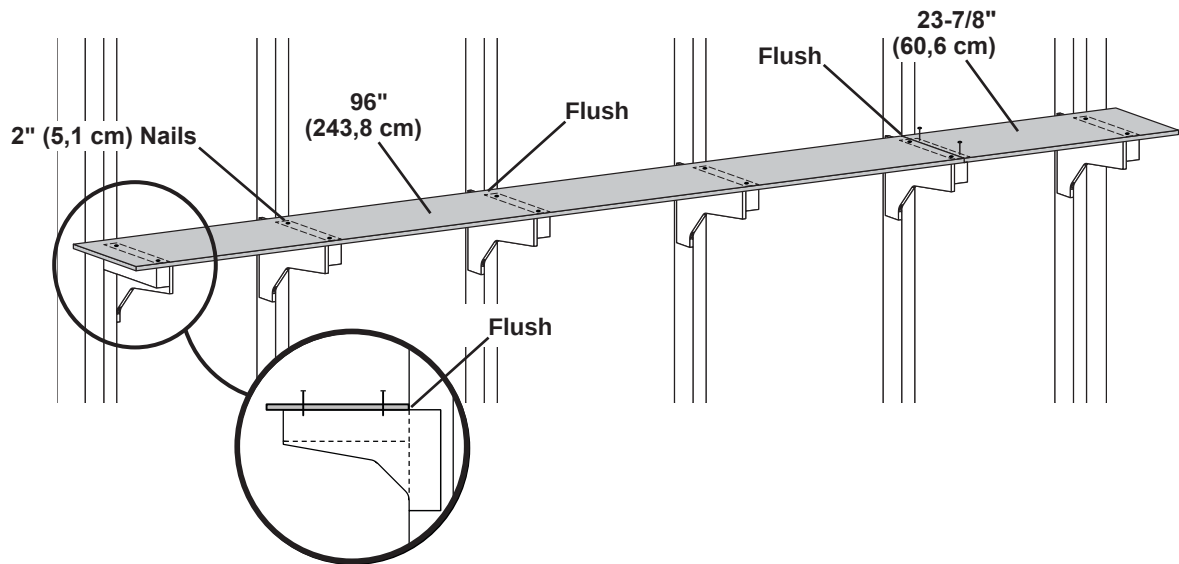
x1 
7/16 x 7-7/8 x 23-7/8" (1,1 x 20 x 60,6 cm)

x1 **JS** 
1 x 4 x 23-7/8" (2,5 x 10,2 x 60,6 cm)

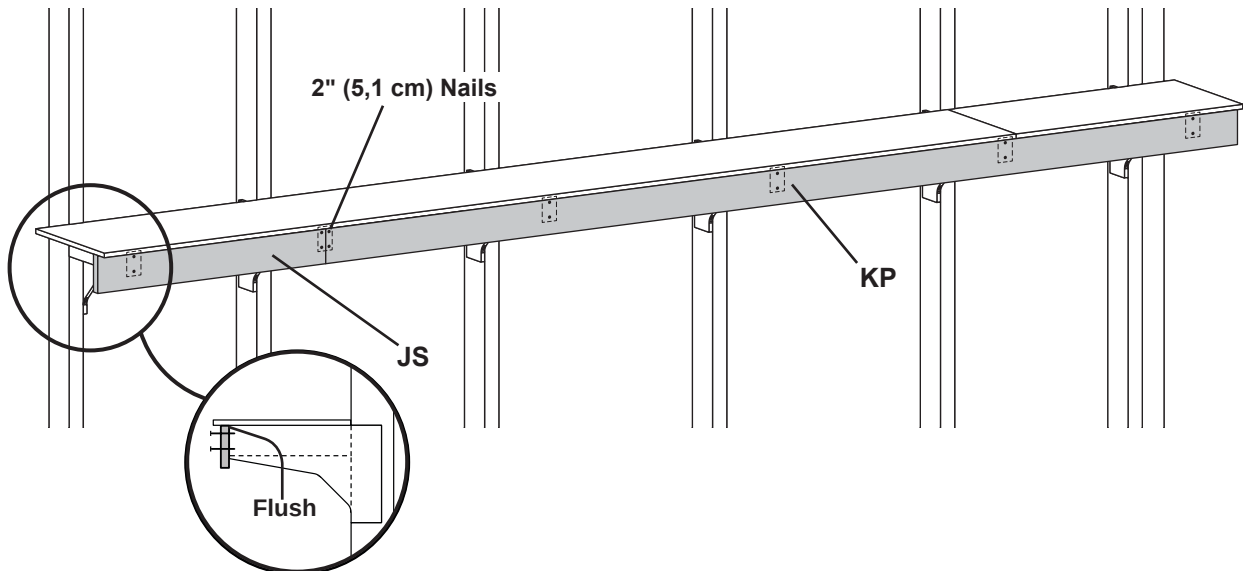
x28  2" (5,1 cm)



- Install shelf panels centered over shelf supports. Secure with 2" (5,1 cm) nails at each support.



- Secure **KP** and **JS** with 2" (5,1 cm) nails at each support as shown.



- You have finished installing your shelves.

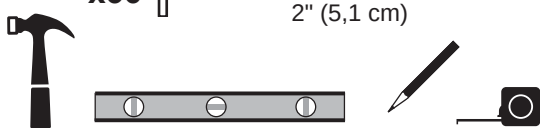
WORK BENCH

PARTS REQUIRED:

x6 **LR**
2 x 3 x 19" (5,1 x 7,6 x 48,3 cm)

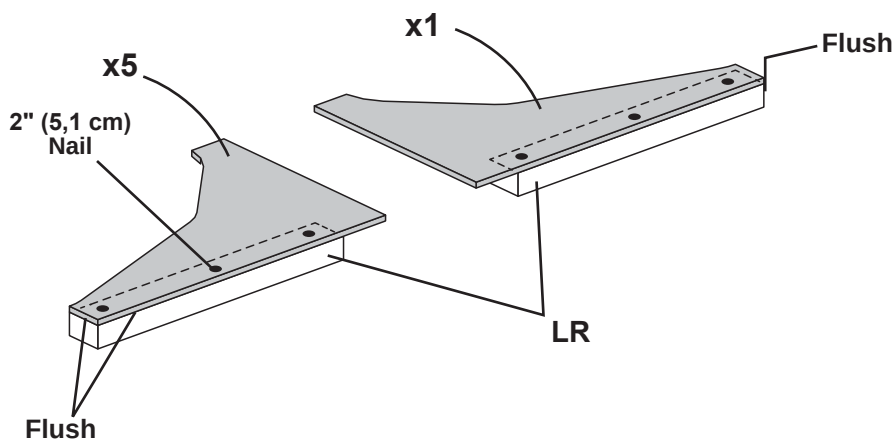
x6
3/8 x 14-1/4 x 22-1/4" (1 x 36,2 x 56,5 cm)

x36
2" (5,1 cm)

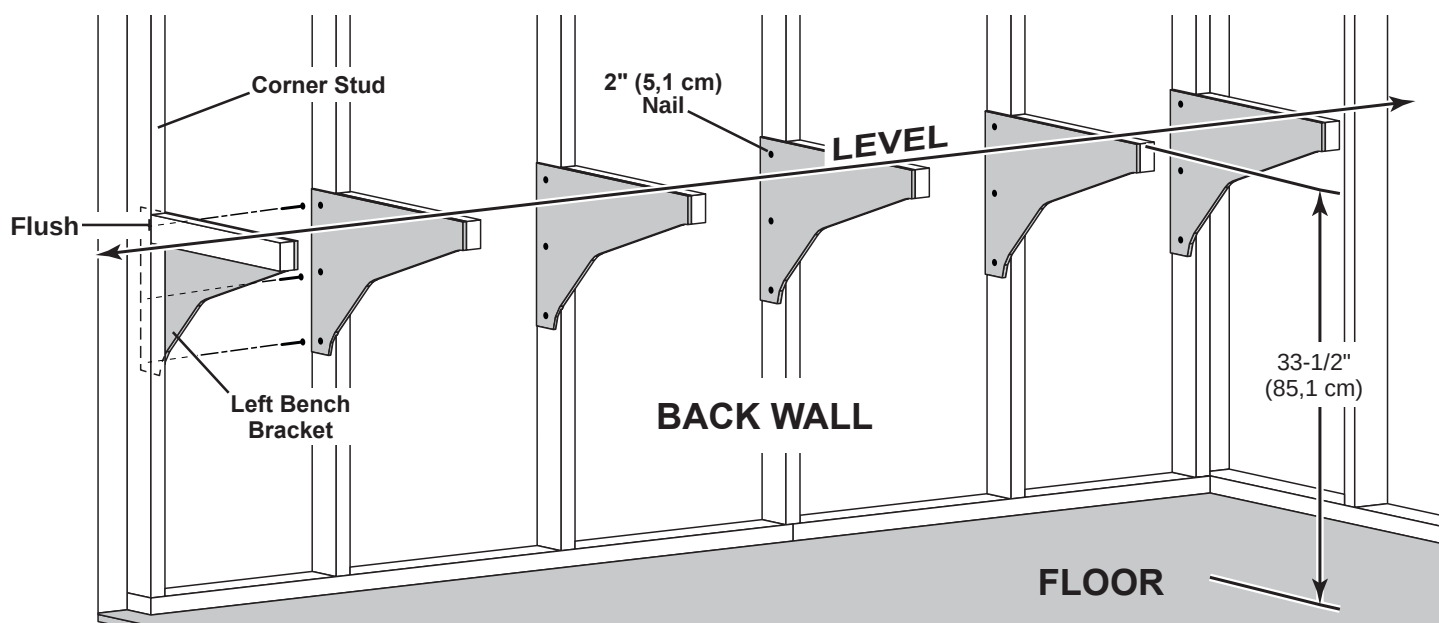


✓ **BEGIN**

- 1 Secure **LR** to bracket panels using three 2" (5,1 cm) nails. Assemble 6 shelf supports as shown; 5 right-side, 1 left-side.

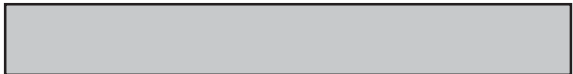


- 2 Secure work bench supports at shown height with three 2" (5,1 cm) nails.



WORK BENCH

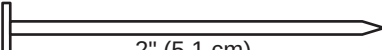
PARTS REQUIRED:

x1 
7/16 x 20-3/4 x 92-1/2" (1,1 x 52,7 x 235 cm)

x1 **KP** 
1 x 4 x 96" (2,5 x 10,2 x 243,8 cm)

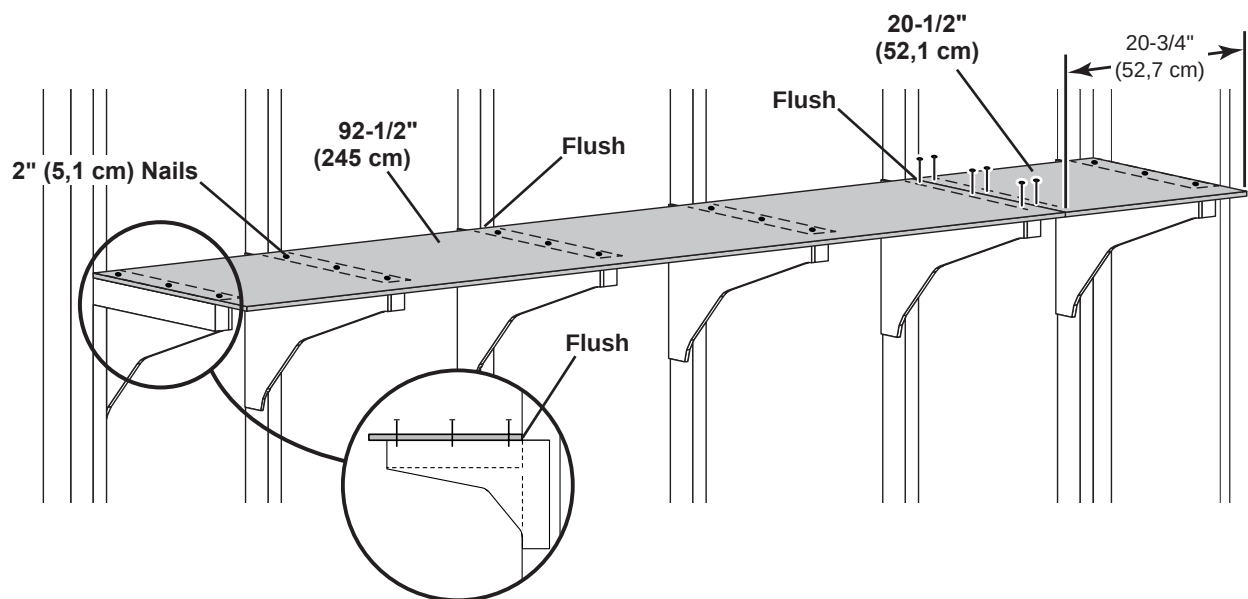
x1 
7/16 x 20-3/4 x 20-1/2" (1,1 x 52,7 x 52,1 cm)

x1 **JS** 
1 x 4 x 23-7/8" (2,5 x 10,2 x 60,6 cm)

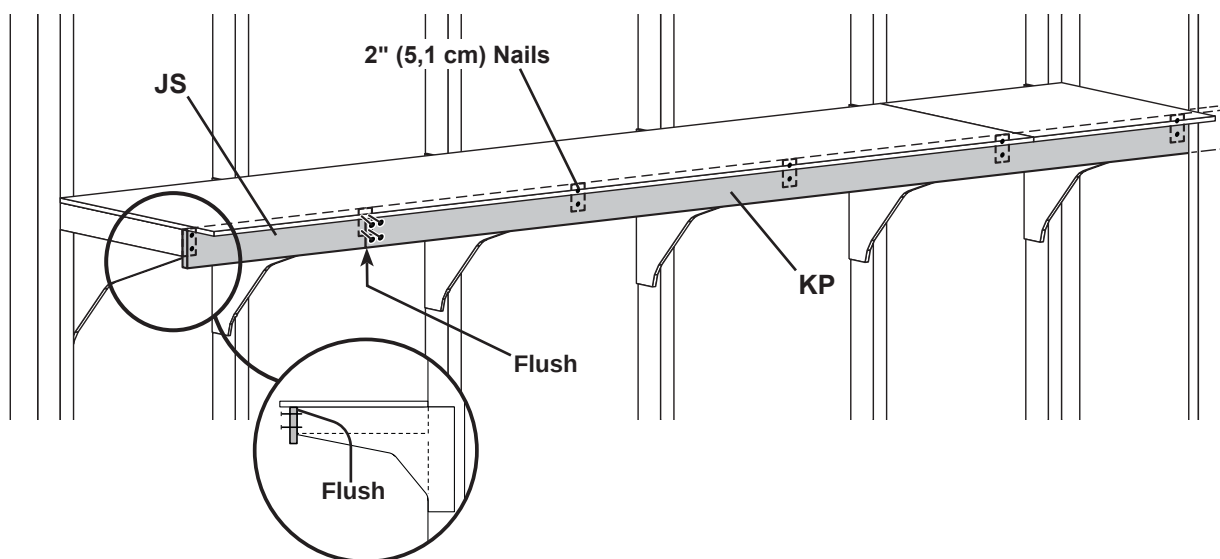
x35 
2" (5,1 cm)



- 3 Install work bench panels centered over bench supports. Secure with 2" (5,1 cm) nails at each support.



- 4 Secure **KP** and **JS** with 2" (5,1 cm) nails at each support as shown.



- 5 You have finished installing your work bench

SHUTTERS ASSEMBLY

PARTS REQUIRED:

- ☐ x8 **KV**
 19/32 x 3 x 8" (1,5 x 7,6 x 20 cm)
- ☐ x12 **CY**
 19/32 x 2-1/2 x 24-3/8" (1,5 x 6,3 x 61,9 cm)

x32  1" (2,5 cm)

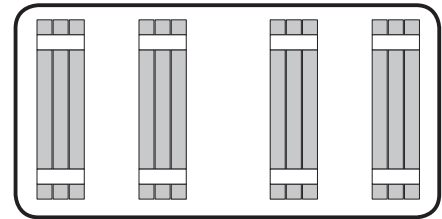
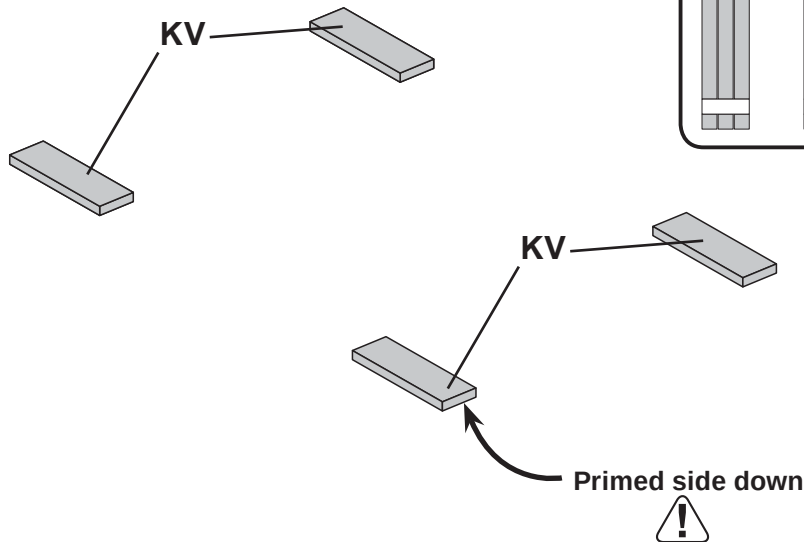


NOTE: You will build four identical shutters (*Fig. A*).

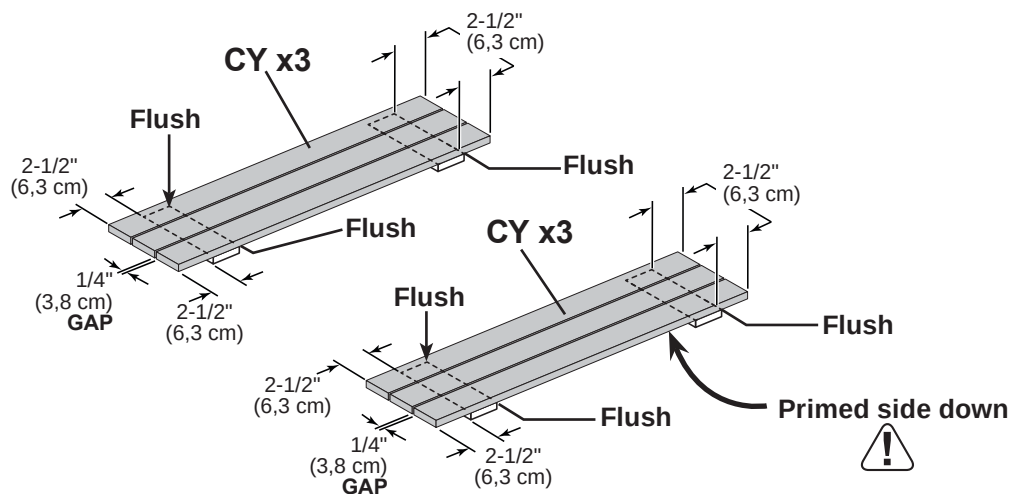
✓ **BEGIN**

Fig. A

- 1** Position shutter parts **KV** primed side-down on floor as shown.



- 2** Attach slats **CY** using 1" screws. Allow 1/4" gap between **CY**.



- 3** Repeat Steps 1-2 to assemble another pair of shutters.

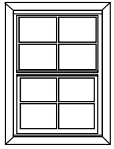
 **FINISH**

- 4** You have finished building your window shutters. Proceed to install your window.

WINDOW

PARTS REQUIRED:

x2



Window
16-1/4" x 22-1/4"
(41,3 x 56,5 cm)

x8 1-5/8" (4,1 cm)



✓ BEGIN

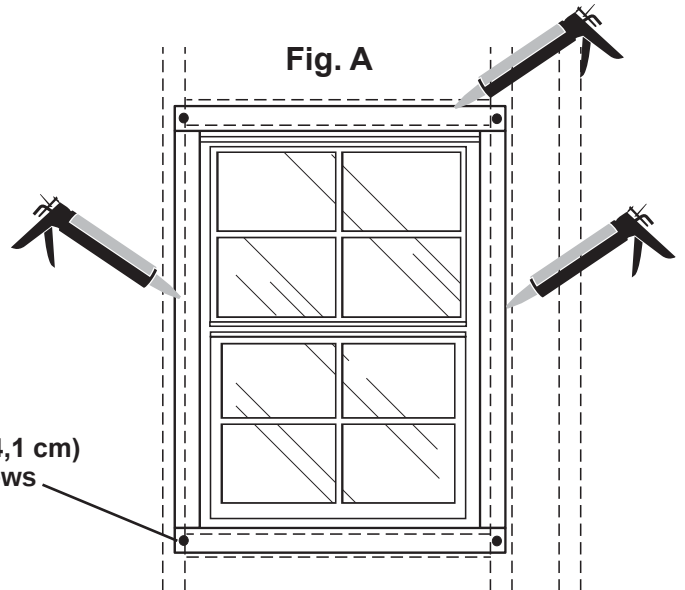
1 Place window in center of window frame as shown.

2 Seal window by caulking behind frame with high-quality exterior-grade caulk before installing (**Fig. A**).

3 Attach window using four 1-5/8" (4,1 cm) screws as shown. Ensure window is level.

4 Repeat **Steps 1-3** to install other front window.

1-5/8" (4,1 cm)
Screws



WINDOW TRIM & SHUTTERS

PARTS REQUIRED:

x2 **QKA** 19/32 x 3-1/2 x 21" (1,5 x 8,9 x 53,3 cm)

x6 3/4" (19 mm)

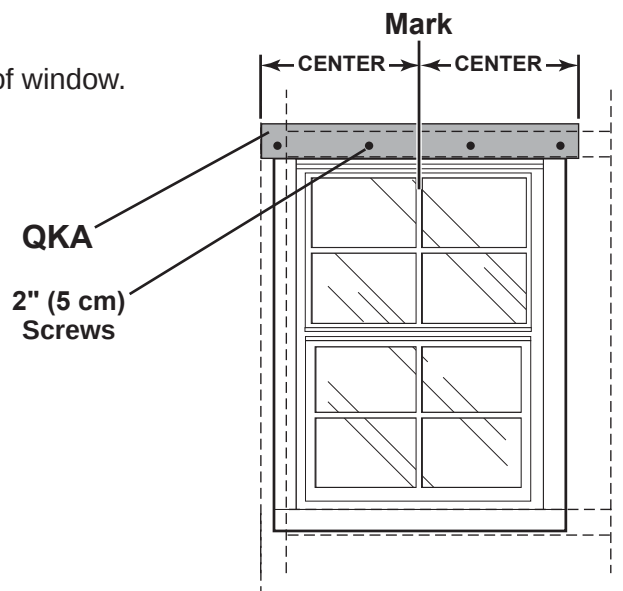
x40 2" (5 cm)

x2 **MDA** 19/32 x 2-1/2 x 21" (1,5 x 6,3 x 53,3 cm)

x4 Pre-assembled shutter



5 Place **QKA** resting flat on window top flange. Measure, mark and center **QKA** with center of window. Attach using 2" finish nails. Nail into window frame and studs behind.

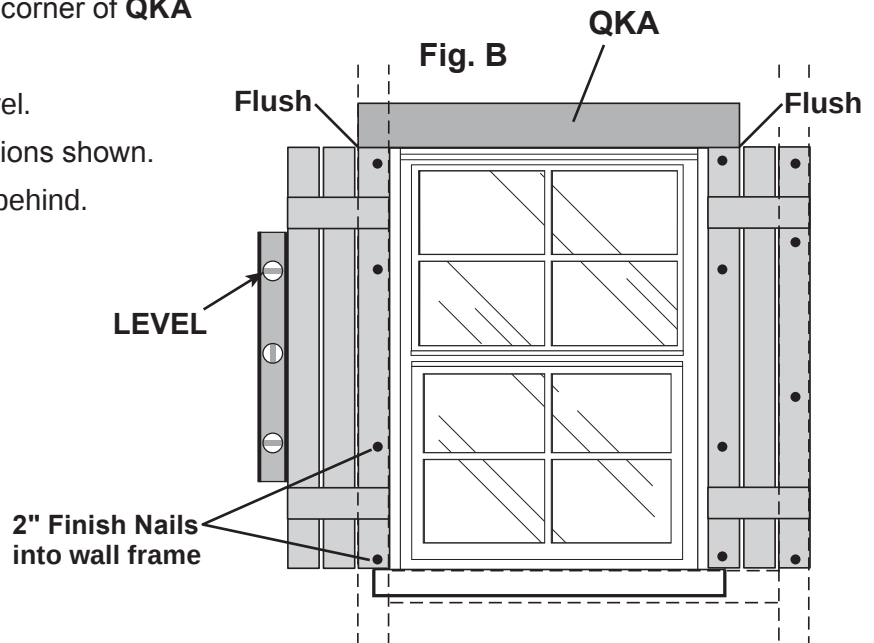


- 6** Line-up shutter slat flush with end corner of **QKA** as shown (**Fig. B**).

Use a level to ensure shutter is level.

Attach using 2" finish nails at locations shown.

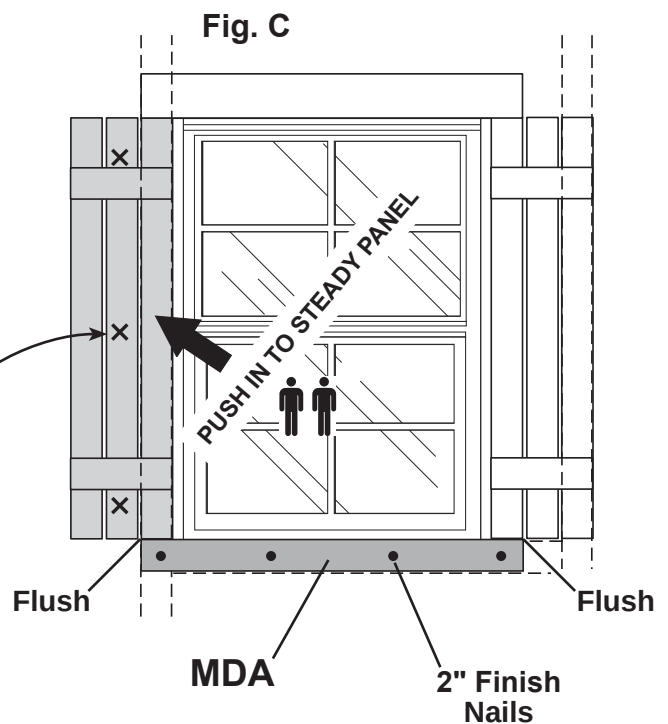
Nail into window frame and studs behind.



- For Step 7, have a second person hold and press inward from outside shed while screws are installed.**

- 7** From INSIDE of the shed, use three 3/4" screws to secure the shutter indicated at "X".

3/4" Screws from inside



- 8** Place **MDA** flush up to bottom of shutters. Line-up **MDA** flush with shutter slats (**Fig. C**). Attach using 2" finish nails. Nail into window frame and studs behind.

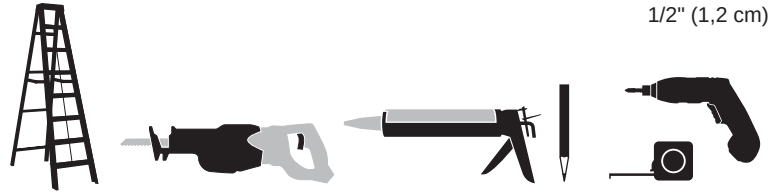
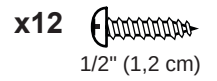
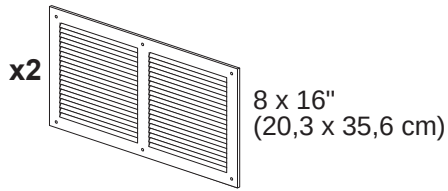
- 9** Repeat **Steps 4-7** to install shutters for second window.



- 10** You have finished installing your front windows and shutters.

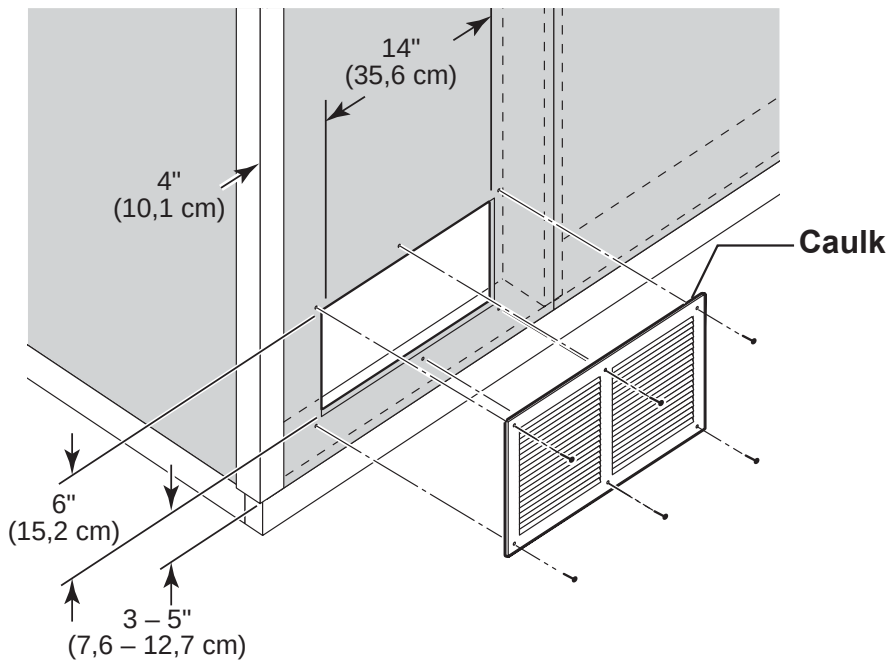
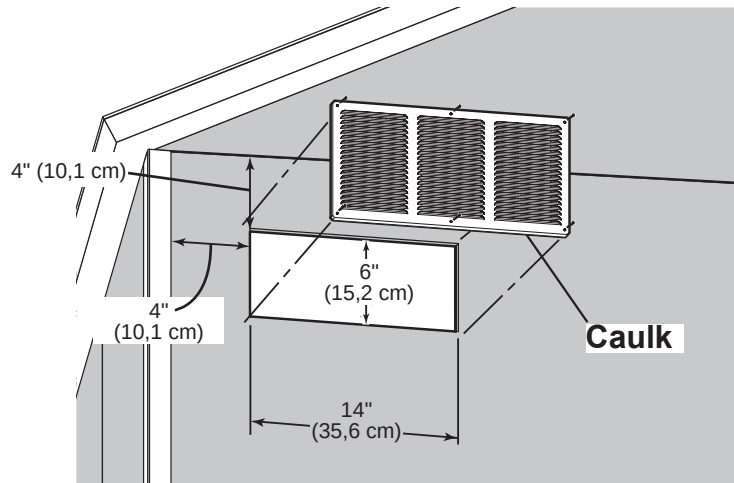
VENTS

PARTS REQUIRED:



✓ BEGIN

- 1 Locate and mark openings for two vents in side walls on opposite sides of shed; (1) at top of wall and (1) at bottom of the other wall.
- 2 Cut out marked openings.
- 3 Caulk behind vent flanges.
- 4 Secure using 3/4" (1,9 cm) screws.



FINISH

- 5 You have finished installing your vents.

PAINT & CAULK

- NOT INCLUDED -



- Use acrylic latex caulk that is paintable. Caulk at all horizontal and vertical seams, between the trim and walls, and all around the door trim.
- Use a high quality exterior acrylic latex paint. When painting your building, there are a few key areas that can be easily overlooked that must be painted:
 - Bottom edge of all siding and trim
 - Inside of doors and all 4 edges

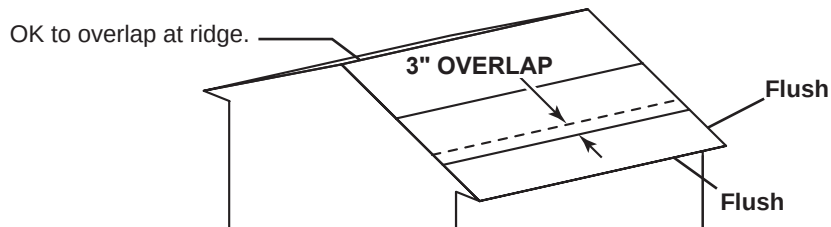
Note:

Prime all un-primed exterior wood before painting.
(Follow directions provided by manufacturer.)

ROOF FELT

- NOT INCLUDED -

- Install felt flush to all roof edges overlapping 3". Use minimal amount of roofing nails to hold in place.

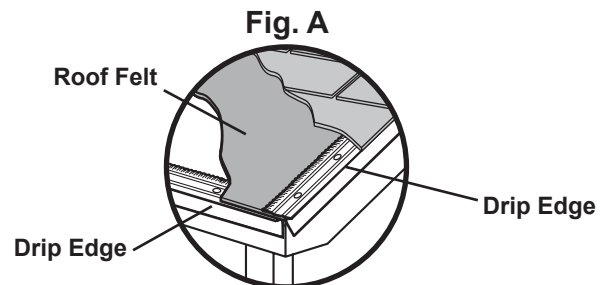
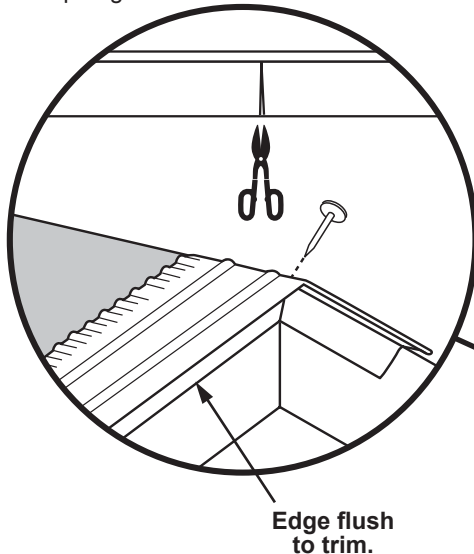


DRIP EDGE

- NOT INCLUDED -

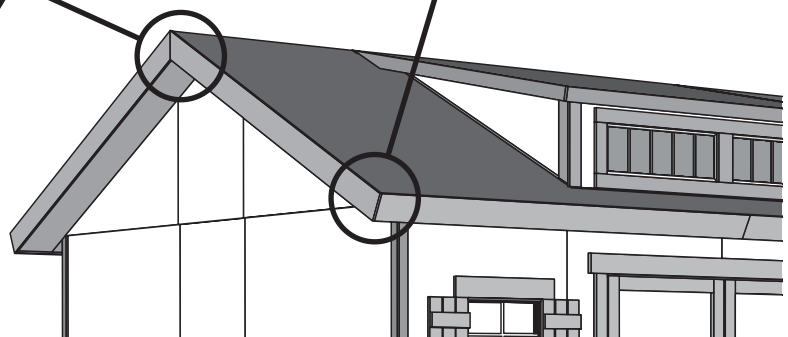


- Install drip edge over roof felt on gable side and under roof felt on eave side (**Fig. A**).
- Do not use nails on side of drip edge that hangs over side of building.
- Only nail top of drip edge as shown.



Snip bottom side of drip edge and bend over to other side of roof.

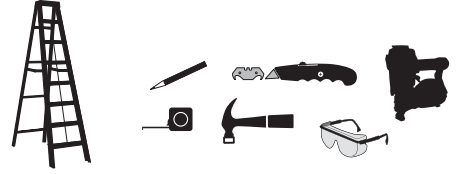
(Follow directions provided by manufacturer.)



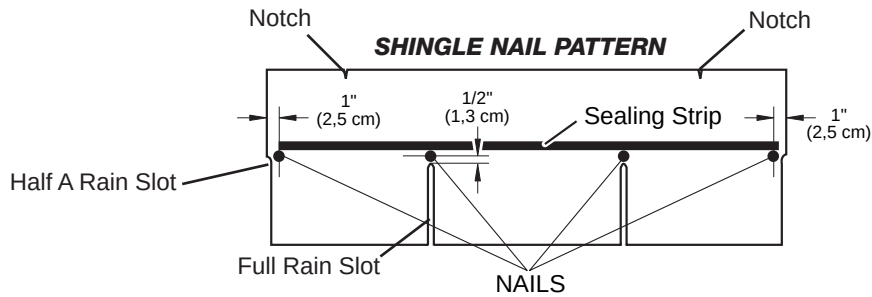
SHINGLES

- NOT INCLUDED -

- Follow directions provided by manufacturer and these instructions.



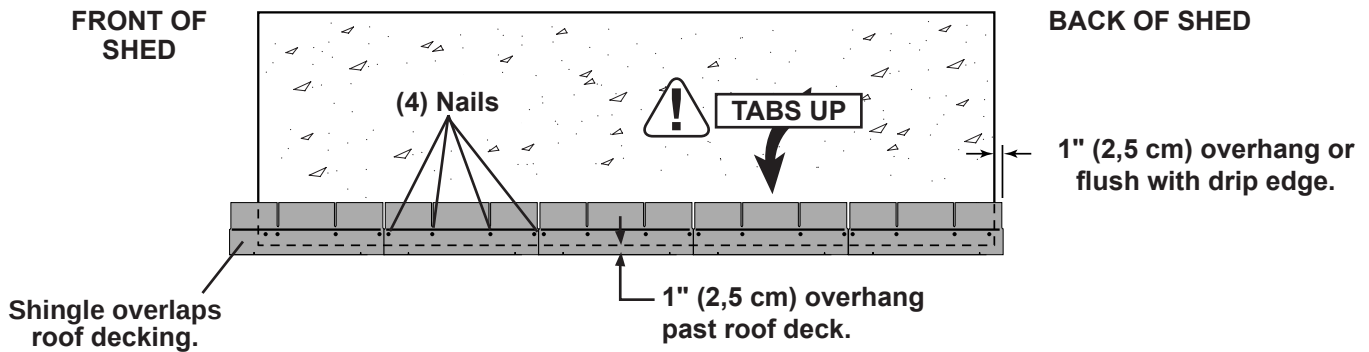
- ⚠️ **Familiarize yourself with a 3-Tab Shingle.**



- ⚠️ **NEVER DRIVE FASTENERS INTO OR ABOVE SEALING STRIPS.**

✓ BEGIN

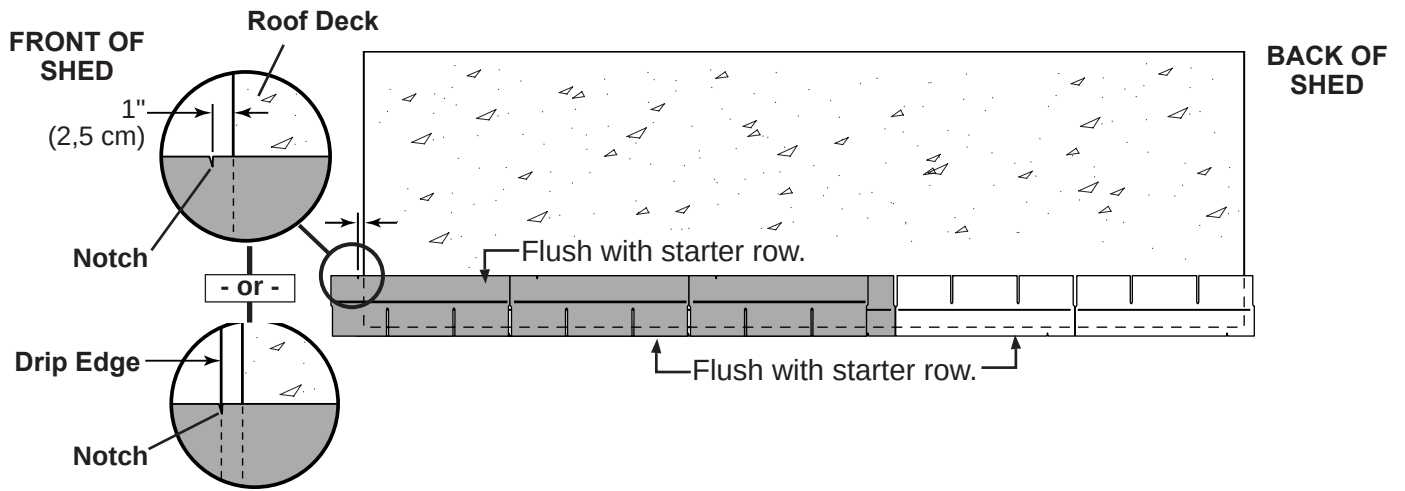
- 1 Install first starter row upside down and color up with a 1" overhang at back and bottom of roof panel. Use (4) nails per shingle. **Starter row must be straight and level all the way across with lower edge of roof deck.**
NOTE: If you have installed drip edge install shingles flush to drip edge.



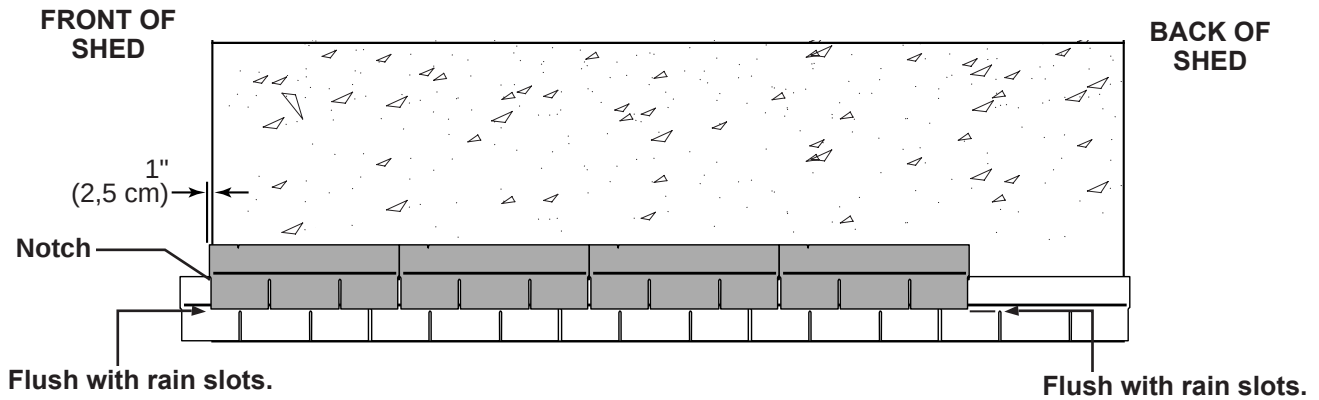
SHINGLES

continued...

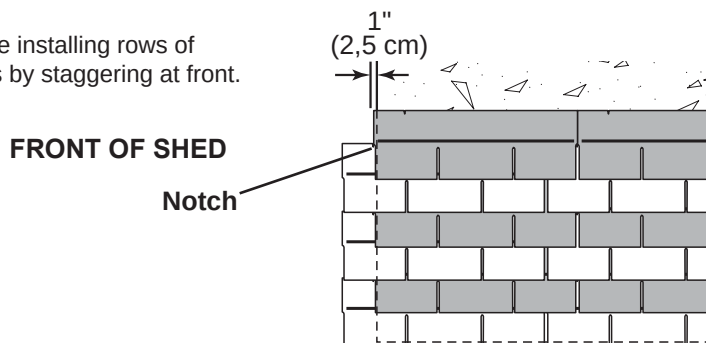
- 2** Beginning at front of shed, install first row of shingles with notch at 1" past roof edge or flush with drip edge.



- 3** Install second row of shingles flush at top of first row's rain slots. Ensure 1" overhang or flush to drip edge at front, stagger each row.

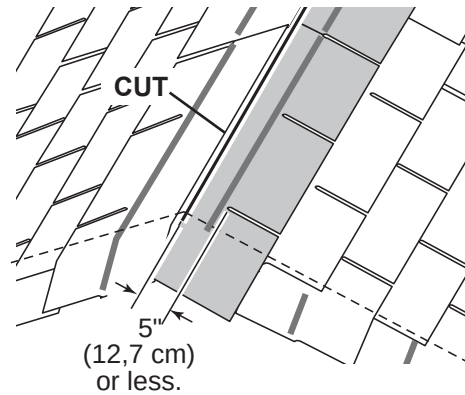
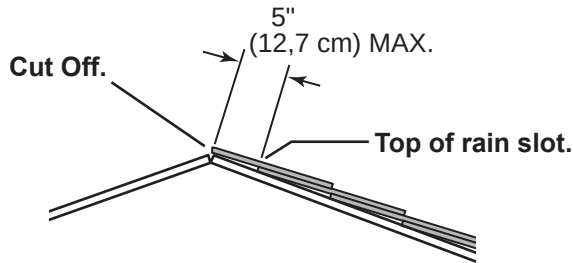


- 4** Continue installing rows of shingles by staggering at front.



SHINGLES continued...

- 5** Continue installing rows of shingles to the peak. At the peak make sure there is a maximum of 5" or less to the rain slot, as shown below. If shingles overlap at ridge cut to peak with a utility knife.

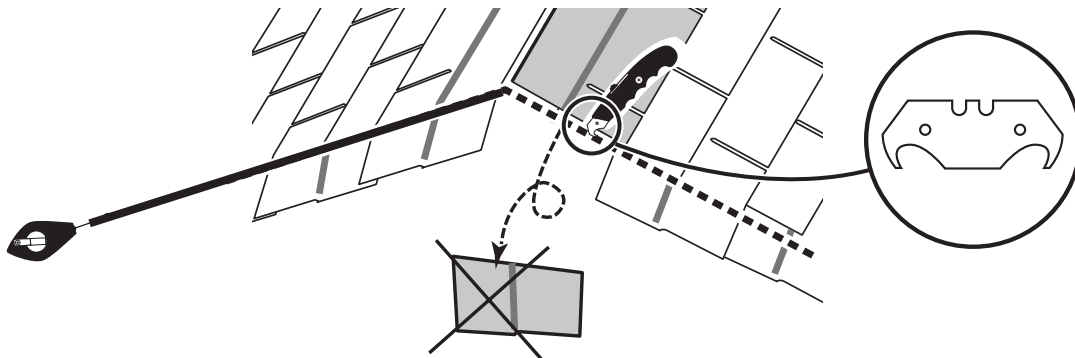


- !** • If more than 5" to rain slot you must install another row of shingles.

- 6** Repeat steps 1 - 5 to shingle the opposite side of your roof. Trim shingles at ridge.

- 7** Once both sides are shingled you need to trim ends. Strike a chalk line 1" from edge.

- 8** Using your shingle hooked blade carefully cut shingles along chalk line.



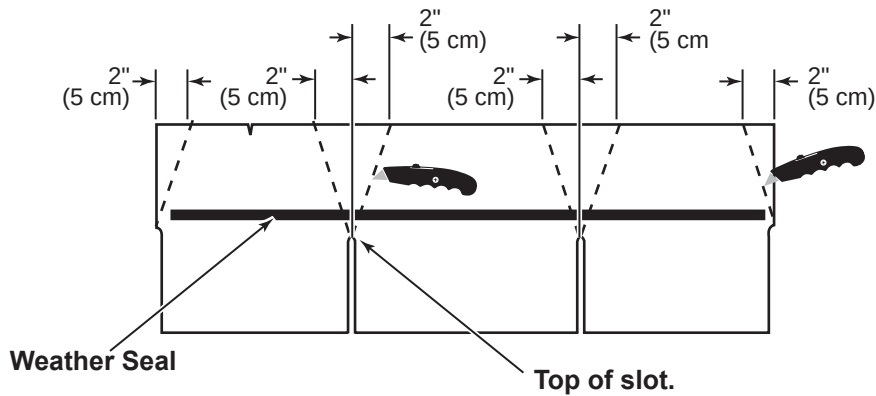
- 9** You have finished shingling your roof. Proceed to capping the ridge.

SHINGLES - RIDGE CAP

- You will finish off the top of the roof with a ridge cap made from shingles.

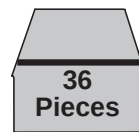
✓ **BEGIN**

- 1** Cut shingles into THREE pieces. **Hint:** Use cut-off pieces first.

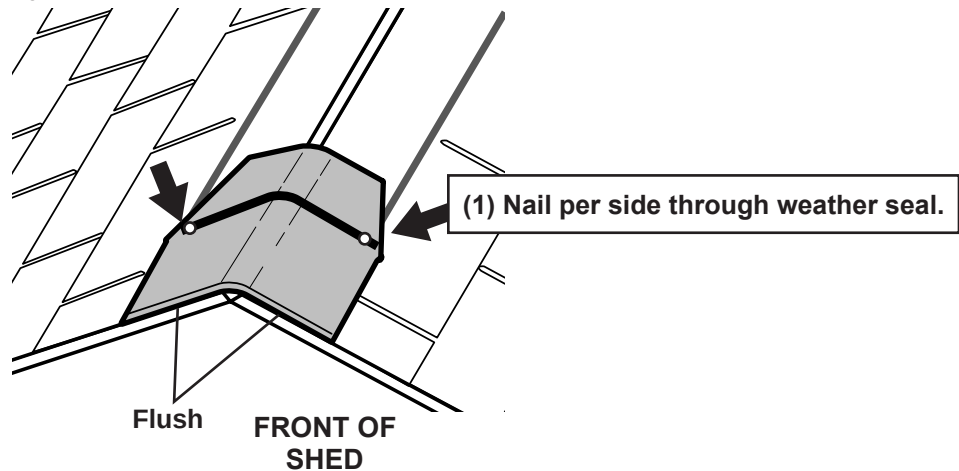


Score shingle, then snap-off angled cut.

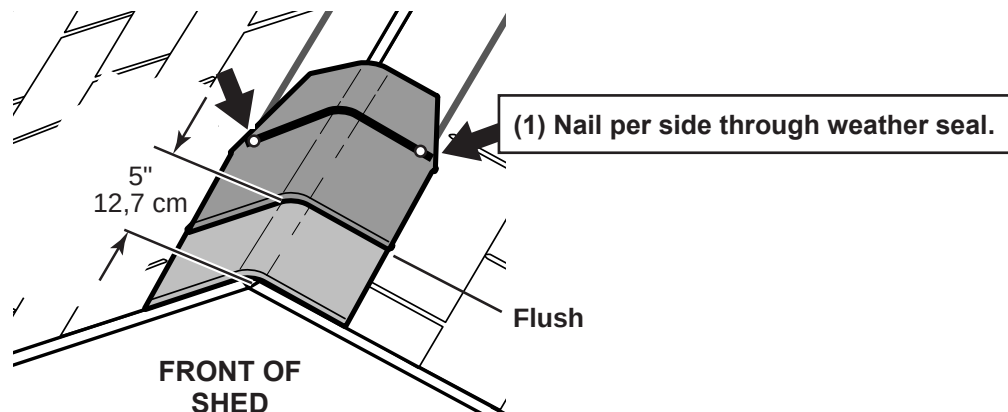
Note: • You will need about 36 cut pieces.



- 2** Install first ridge cap flush to shingles at front, as shown.



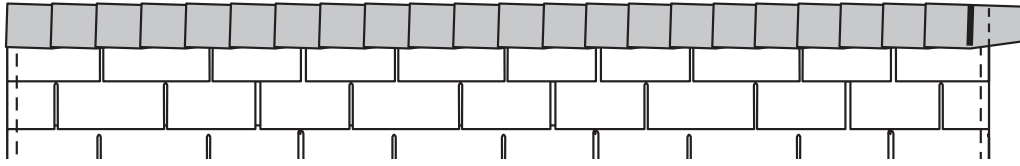
- 3** Install second ridge cap 5" back, as shown.



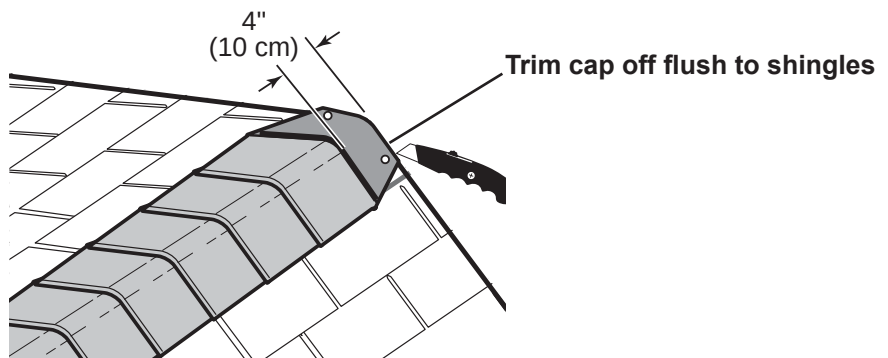
SHINGLES - RIDGE CAP

continued...

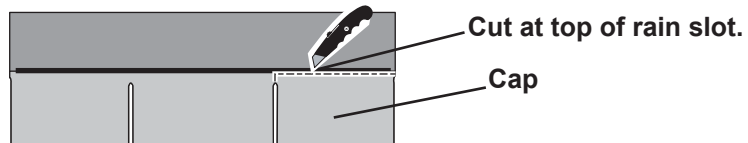
- 4 Continue installing ridge cap to back of roof.



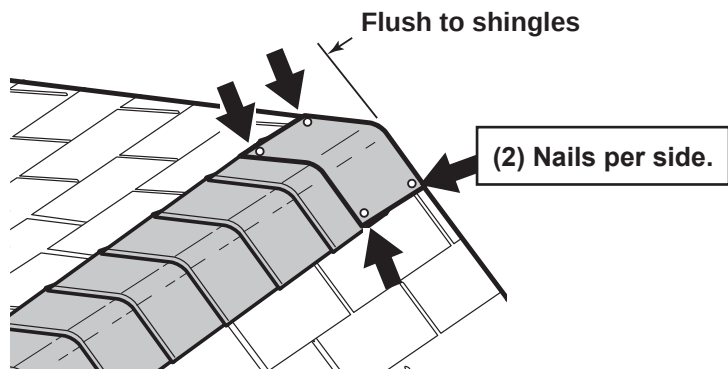
- 5 Make sure there is 4" between the shingle-color and edge of shingles.



- 6 When you have 4" minimum of shingle color cut one piece to cap your roof.



- 7 Install flush to shingles.



- 8 You have finished your ridge cap.

WARRANTY

Backyard Storage Solutions, LLC warrants the following:

1. Every product is warranted from defects in workmanship and manufacturing for one year.
2. All hardware and metal components are warranted for two years.
3. Trim is warranted for 15 years.
4. Waferboard siding and sheathing is warranted for two years.
5. SmartSide™ siding is warranted for 15 years on all Marco series buildings and 15 years on all Premier Series buildings.
6. Timber series buildings' siding and trim are warranted for 10 years.
7. Solar Shed windows are warranted for 1 year.
8. Cedar lumber is warranted for 15 years.
9. Cedar doors and Cedar Garden Center are warranted for 10 years.
10. Metal roof is warranted for 25 years.

**Limited Conditional
Warranty ***

Backyard Storage Solutions, LLC will repair, replace or pay for the affected part. In no event shall Backyard Storage Solutions, LLC pay the cost of labor or installation or any other costs related thereto. All warranties are from date of purchase. If a cash refund is paid on an affected part, it will be prorated from the date of purchase.

CONDITIONS

The warranty is effective only when:

1. The unit has been erected in accordance with the assembly instructions.
2. The unit has been properly shingled and painted or stained and reasonably and regularly maintained thereafter.
3. The failure occurs when the unit is owned by the original purchaser.
4. Backyard Storage Solutions, LLC has received the warranty registration card within thirty (30) days of purchase and notification of the failure in writing within the warranty period specified above.
5. Backyard Storage Solutions, LLC has had reasonable opportunity during the sixty (60) days following receipt of notification to inspect and verify the failure prior to commencement of any repair work.

REQUIREMENTS

Storage Buildings & Playhouses

To validate your warranty, it is necessary to properly maintain your Backyard Storage Solutions, LLC unit; shingle the roof and paint or solid-colored stain the siding using 100% acrylic latex exterior product with a minimum of two (2) coats within thirty (30) days of assembly; caulk above all doors and all horizontal and vertical trim boards; paint and seal all exposed edges, sides and faces of SmartSide™ and waferboard siding to include all exterior walls and all sides and all edges of doors.

Gazebos, Pergolas & Timber Buildings

To validate your warranty, it is necessary to properly maintain your Backyard Storage Solutions, LLC unit. This includes treating all of the exposed cedar and pine surfaces on your gazebo or timber building with an exterior grade wood preservative, an exterior oil-based semi-transparent stain, an acrylic latex exterior paint or an acrylic latex solid color exterior stain within 30 days of assembly and as needed thereafter to maintain your warranty.

Keep vegetation trimmed away from building and make sure siding panels and trim do not come in contact with masonry or cement. The minimum ground clearance for siding must be one half inch (½ inch) from concrete slab or two and one half inches (2 ½") from the ground when building is erected or constructed on a treated wood floor kit. Water from sprinklers must be kept off unit. In no event will Backyard Storage Solutions, LLC be responsible for any indirect, incidental, consequential or special damages nor for failure(s) that are caused by events, acts or omissions beyond our control including, but not limited to, misuse or improper assembly, improper maintenance (which eventually leads to rot or decay) and acts of God. Backyard Storage Solutions, LLC will not be held responsible for any labor costs incurred to construct your unit. This warranty gives you certain specific rights that vary from state to state.

CLAIM PROCEDURE

To make a claim under this warranty, you can either call 1-888-827-9056 or prepare a letter. Please have ready the information below when you call or include the information when writing:

1. The model and size of the product.
2. A list of the part(s) for which the claim is made.
3. Proof of purchase of the Backyard Storage Solutions, LLC item, as shown on the original invoice.
4. Run code, as listed on the yellow warranty card enclosed in the product package.

Mail the above information to:

Backyard Storage Solutions, LLC
Attn: Customer Service
1000 Ternes
Monroe, MI 48162

***WARRANTY TERMS MAY VARY OUTSIDE THE U.S.A.**

IMPORTANT: This is your warranty certificate.

Please complete and mail your warranty card to properly validate your warranty.