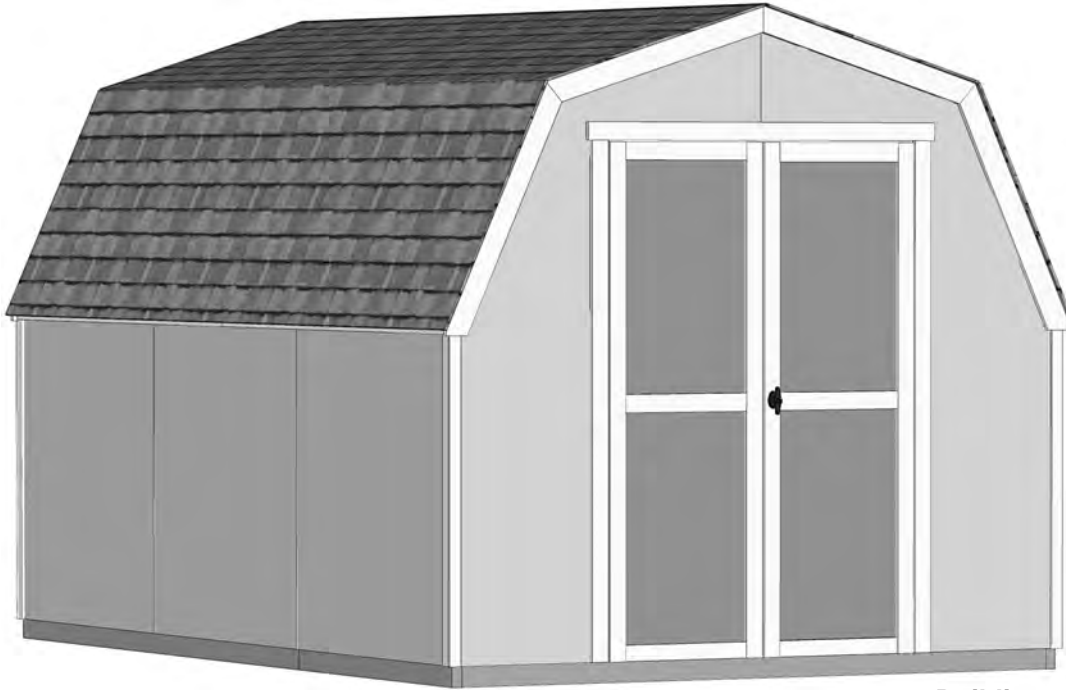# Backyard PRODUCTS

ASSEMBLY MANUAL

GAMBREL 8' x 12'

Includes 8' x 12' Building and Floor Instructions

KEEP THIS MANUAL FOR FUTURE REFERENCE

Building 8' x 12'

⚠ *IMPORTANT!* ⚠
READ INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING ASSEMBLY.

BEFORE YOU BEGIN

- **BUILDING RESTRICTIONS AND APPROVALS**

  Be sure to check 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 7.

- **CHECK ALL PARTS**

  Inventory all parts listed on pages 3-5.

- **ADDITIONAL MATERIALS**

  You will need additional materials to complete your shed. See page 6 for required and optional materials and quantities.

***CONTACT OUR CUSTOMER SERVICE TEAM
IF ANY PARTS ARE MISSING OR DAMAGED***
- Order form and warranty at back of manual -
Call: 1-734-242-6900 email: customerservice@backyardproducts.com

TOOLS

Required

- ❏ Phillips Screwdriver
- ❏ Drill / Driver
  - ❏ 5/16" Drill Bit
  - ❏ 1/8" Drill Bit
  - ❏ #2 Philips Drive Bit
- ❏ Level
- ❏ Pencil
- ❏ Tape Measure
- ❏ Square or

- ❏ Utility Knife
  - ❏ Shingle Blades
- ❏ Caulk Gun
- ❏ Paint Tools
- ❏ Safety Glasses
- ❏ Ladder

Optional

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

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.

BEGIN = Beginning of steps for assembly or installation.

FINISH = 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**.)

A

B

C
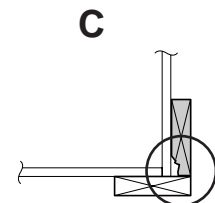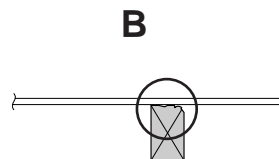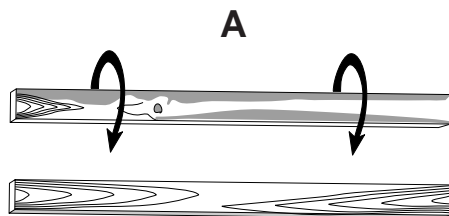
PARTS IDENTIFICATION AND SIZES

Part identification is stamped on some parts.

RS   RS

• Check these locations for part stamp.

Treated lumber is stamped:

TREATED

WOOD SIZE CONVERSION CHART

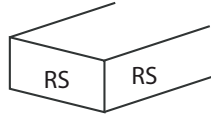| Nominal Board Size	Actual Size
2 x 4 ....1-1/2" x 3-1/2" (3,8 x 8,9 cm)	
1 x 4 ....3/4" x 3-1/2" (1,9 x 8,9 cm)	
2 x 3 ....1-1/2" x 2-1/2" (3,8 x 6,3 cm)	
1 x 3 ....3/4" x 2-1/2" (3,8 x 6,3 cm)	

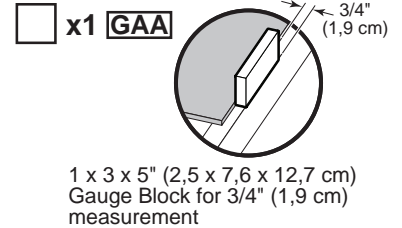# PARTS LIST

☑ INVENTORY YOUR PARTS before you begin.

We suggest sorting parts by the category they are listed in

FLOOR

- **x2** TREATED — 2 x 4 x 48" (5,1 x 10,2 x 121,9 cm)
- **x10** TREATED — 2 x 4 x 93" (5,1 x 10,2 x 236,2 cm)
- **x2** TREATED — 2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)

WALLS

- **x1** DT — 2 x 3 x 11-3/4" (5,1 x 7,6 x 29,8 cm)
- **x1** BSN — 2 x 3 x 35" (5,1 x 7,6 x 88,9 cm)
- **x14** AFE — 2 x 3 x 44" (5,1 x 7,6 x 111,8 cm)
- **x3** NE — 2 x 3 x 45-1/2" (5,1 x 7,6 x 115,6 cm)
- **x4** NK — 2 x 3 x 48" (5,1 x 7,6 x 121,9 cm)
- **x1** EH — 2 x 3 x 51" (5,1 x 7,6 x 129,5 cm)
- **x2** OZ — 2 x 3 x 70-1/4" (5,1 x 7,6 x 178,4 cm)
- **x1** ELC — 2 x 3 x 90-1/8"" (5,1 x 7,6 x 228,9 cm)
- **x4** PT — 2 x 3 x 96" (5,1 x 7,6 x 243,8 cm)

x1 GAA

3/4" (1,9 cm)

1 x 3 x 5" (2,5 x 7,6 x 12,7 cm)
Gauge Block for 3/4" (1,9 cm)
measurement

ROOF

- **x12** — 6" x 24" (15,2 x 61 cm)
- **x14** — **SUB-ASSEMBLED TRUSS**

TRIM

- **x2** ZHR — 2 x 4 x 35-3/4" (2,5 x 10,26 x 90,8 cm)
- **x2** ZHL — 2 x 4 x 35-3/4" (2,5 x 10,26 x 90,8 cm)
- **x2** DBR — 2 x 4 x 36-3/4" (2,5 x 10,26 x 93,3 cm)
- **x2** DBL — 2 x 4 x 36-3/4" (2,5 x 10,26 x 93,3 cm)
- **x8** — 3/8 x 1-3/4 x 45-3/8" (1,0 x 7,6 x 115,3 cm)
- **x1** ZB — 19/32 x 2-1/2 x 55" (1,5 x 6,3 x 139,7 cm)
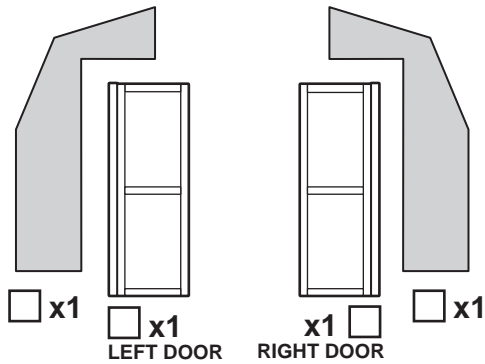- **x4** — 3/8 x 1-3/4 x 72-3/8" (1,0 x 7,6 x 186,4 cm)

DOOR

- **x2** OO — 69" Door Stiffener (175,3 cm)

WALL PANELS & DOORS

Wall panels are 3/8" (1,0 cm) thick.

NOTE: Panel parts are not stamped.

x1   x1   x1   x1
LEFT DOOR   RIGHT DOOR

x1
3/8 x 42-1/2 x 48"
(1 x 108 x 121,9 cm)

x1
3/8 x 42-1/2 x 48"
(1 x 108 x 121,9 cm)

x8
3/8 x 48 x 48"
(1 x 121,9 x 121,9 cm)

ROOF PANELS

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

NOTE: Panel parts are not stamped.

x2
7/16 x 35-3/8 x 96"
(1,1 x 89,9 x 243,8 cm)

x2
7/16 x 35-3/8 x 48"
(1,1 x 89,9 x 121,9 cm)

x2
7/16 x 23-7/8 x 96"
(1,1 x 60,6 x 243,8 cm)

x2
7/16 x 23-7/8 x 48"
(1,1 x 60,6 x 121,9 cm)

x2
7/16 x 11-7/8 x 96"
(1,1 x 30,2 x 243,8 cm)
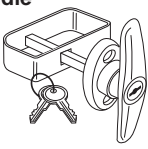
x2
7/16 x 11-7/8 x 48"
(1,1 x 30,2 x 121,9 cm)

FLOOR PANELS

Floor panels are 5/8" (1,6 cm) thick.
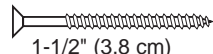
x3
5/8 x 48 x 96"
(1,6 x 121,9 x 243,8 cm)
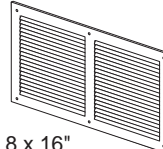
DOOR HARDWARE

T & D Handle
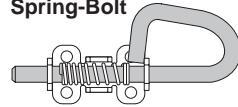
☐ x1

☐ x1

☐ x2 1-1/2" (3,8 cm)
(2 screws in each package)

☐ x2 8 x 16"
(20,3 x 35,6 cm)

☐ x2 1/2" (13 mm)

Spring-Bolt
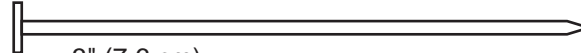
☐ x2

☐ x8 1" (2,5 cm)
(4 screws in each package)

☐ x1 **(8' Z-Channel)**

NAIL BOXES & NAIL BAGS

☐ x3 BOXES 3" (7,6 cm)

☐ x5 BOXES 2" (5,1 cm)

☐ x150 1-1/2" (3,8 cm)

☐ x185 2" (5,1 cm)

☐ x 4 1-1/2" (3,8 cm)

FASTENER/HARDWARE BAG

☐ x70 3" (7,6 cm)

☐ x22 2" (5,0 cm)

☐ x2 1-1/4" (3,2 cm)

☐ x44 3/4" (1,9 cm)

NOTES

ADDITIONAL MATERIALS

FOUNDATION OR FLOOR MATERIALS

• This shed kit includes a complete wood floor system.

• This shed kit does not include ANY leveling materials.

• **See the FLOOR LEVELING section on page 7 for recommended methods and suggested materials to properly level your floor, as this will vary depending on your specific site.**

• If you choose to install your kit on a concrete slab refer to page 8.

REINFORCED WOOD FLOOR FRAME (OPTIONAL)

IMPORTANT! Depending on your specific use, you may want to construct a heavy duty floor frame by adding additional floor joists (shown below as shaded). Below is a list of additional materials (not included).
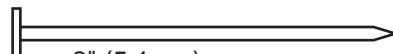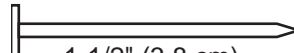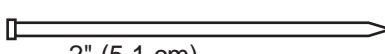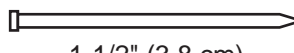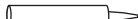
☐ **x3** 2 x 4 x 8' (5,1 x 10,2 x 243,8 cm) Treated Lumber
Cut lumber to 2 x 4 x 93" (5,1 x 10,2 x 236,2 cm)
Treated Lumber

☐ **x12** ea. 3" (7,6 cm) hot-dipped galvanized nails
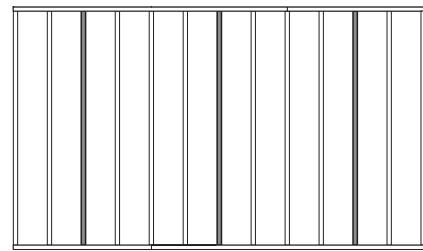
→ ← Optional 12" (30,5 cm) spacing

COMPLETING YOUR SHED
You will need these additional materials:

☐ **3-TAB SHINGLES .... 7 Bundles**

☐ **PAINT FOR SIDING .... 2 Gallons**
Use 100% acrylic latex exterior paint. (2) coats recommended.

☐ **CAULK .... 3 Tubes**
Use acrylic latex exterior caulk that is paintable.

☐ **1" GALVANIZED ROOFING NAILS.... 4 Lbs**
For shingles.

☐ **PAINT FOR TRIM ....,... 1 Quart**
Use 100% acrylic latex exterior paint.

OPTIONAL MATERIALS

☐ **DRIP EDGE .... 60 Feet**

☐ **#15 ROOFING FELT**
To cover 170 Sq. Ft. of roof area.

☐ **1" GALVANIZED ROOFING NAILS.........1/4 Lb**
For roofing felt.

REFER TO THE BACK OF THIS MANUAL AND THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF SHINGLES, DRIP EDGE AND FELT.

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

**4x4 Runners
(not included)**

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

12"
(30,5 cm)

DOOR

**Measurements to
centers of 4x4's.**

12"
(30,5 cm)
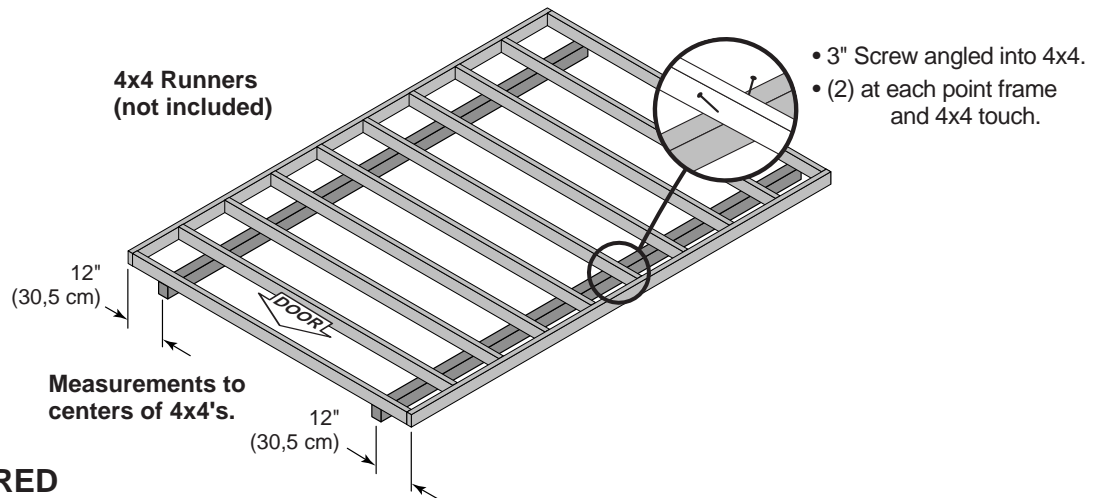
MATERIAL REQUIRED

☐ **x2** 4 x 4 x 12' (10,2 x 10,2 x 365,8 cm)
Treated Lumber

☐ **Fasteners for Frame to 4"x 4".**
(3" Screws shown as one option.) Minimum (40) 3" screws / exterior grade.

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

⚠ **Always support frame seams.**

Maximum between leveling
material locations.

Shingle

Level

4x4 Runner

48"

12"

12"

Shingle

Do not exceed 16". ⚠

Gravel

2" Block

Gravel

4" Block

8" Block
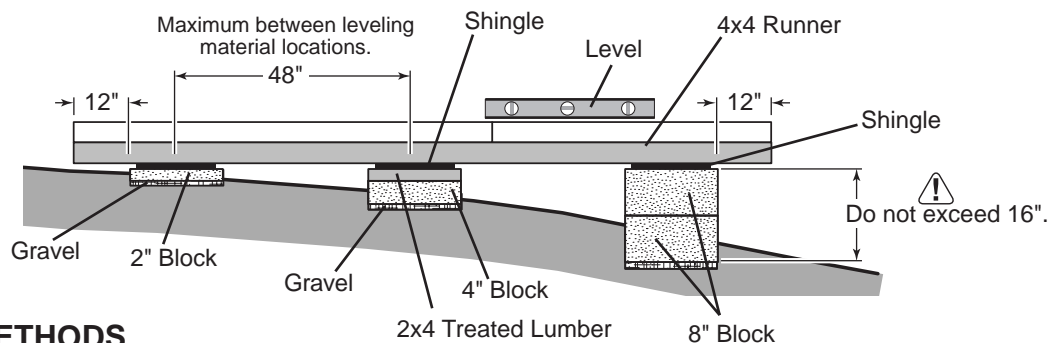
2x4 Treated Lumber

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 page 7.

7

CONCRETE FOUNDATION
If you choose to install your kit on a concrete slab refer to the diagram below.

Treated Sill Plate

Caulk between sill plate and concrete.

B C

3-1/2"
(8,9 cm)

A

DOOR

4" (10,2 cm)
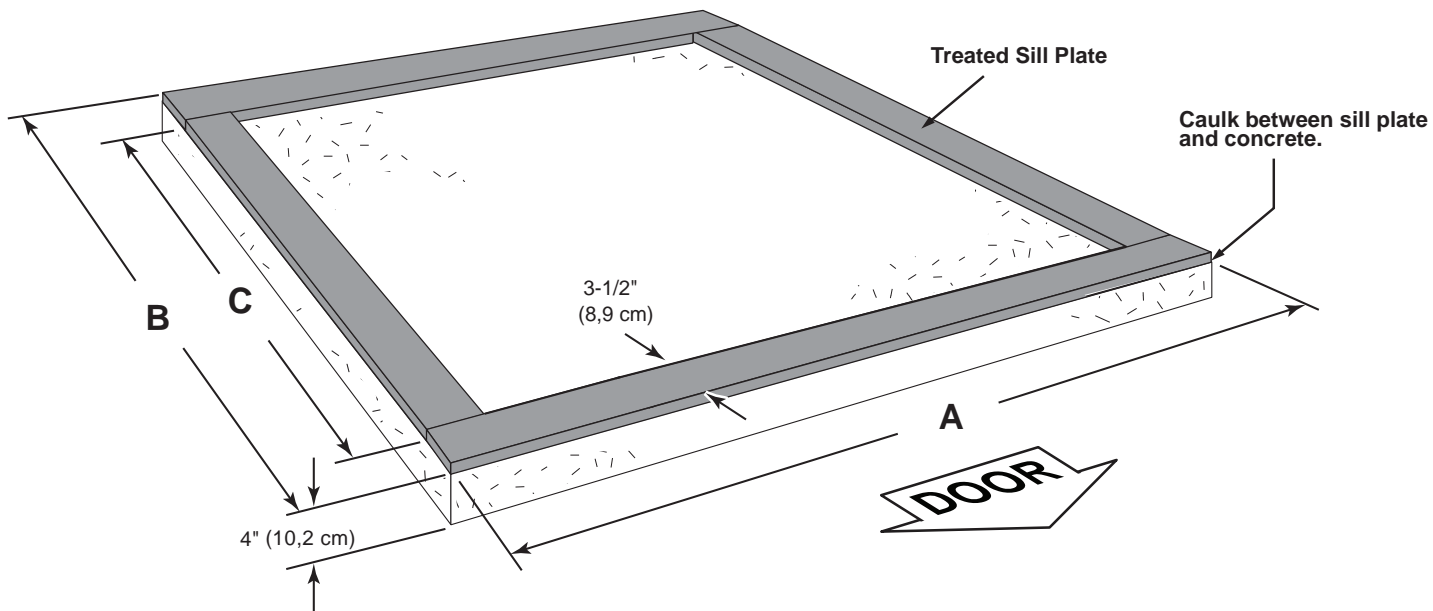
Building Size	Actual Floor Size	A	B	C
8' x 12' (243,8 x 365,8 cm)	96" x 144" (243,8 x 365,8 cm)	96" (243,8 cm)	144" (365,8 cm)	137" (348 cm)

ACTUAL FLOOR SIZE IS: 96" x 144" (243,8 x 365,8 cm)

Requires:

☐ **x2** 2" x 4" x 11'-1-5/8" (5,1 x 10,2 x 339,4 cm) ⚠ **MUST be treated lumber.**

☐ **x2** 2 x 4 x 8' (5,1 x 10,2 x 243,8 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.
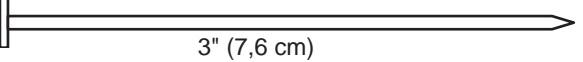
NOTES

_____

_____

_____

_____

_____

_____

FLOOR FRAME

PARTS REQUIRED:

x2 | TREATED |
2 x 4 x 48" (5,1 x 10,2 x 121,9 cm)

x10 | TREATED |
2 x 4 x 93" (5,1 x 10,2 x 236,2 cm)

x2 | TREATED |
2 x 4 x 96" (5,1 x 10,2 x 243,8 cm)

Look for
TREATED
Stamp

x44
3" (7,6 cm)
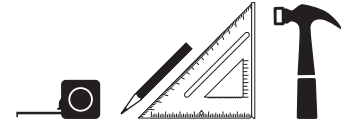
√ **BEGIN**

1 Arrange parts as shown on a flat surface. Measure and mark.

Secure with (2) 3" nails at each mark.

HINT:
For easier nailing
stand on frame.

144"
(403,9 cm)

128"
(325,1 cm)

112"
(284,5 cm)

96"
(243,8 cm)

80"
(203,2 cm)

64"
(121,9 cm)

48"
(121,9 cm)

48"
(121,9 cm)

32"
(81,3 cm)

16"
(40,7 cm)

← **Flush**

Center
on marks

SEAM

3" (7,6 cm)
Nails

1-1/2" →
(3,8 cm)

93"
(236,2 cm)

96"
(243,8 cm)

← **Flush**

96"
(243,8 cm)

48"
(121,9 cm)

🏁 **FINISH**
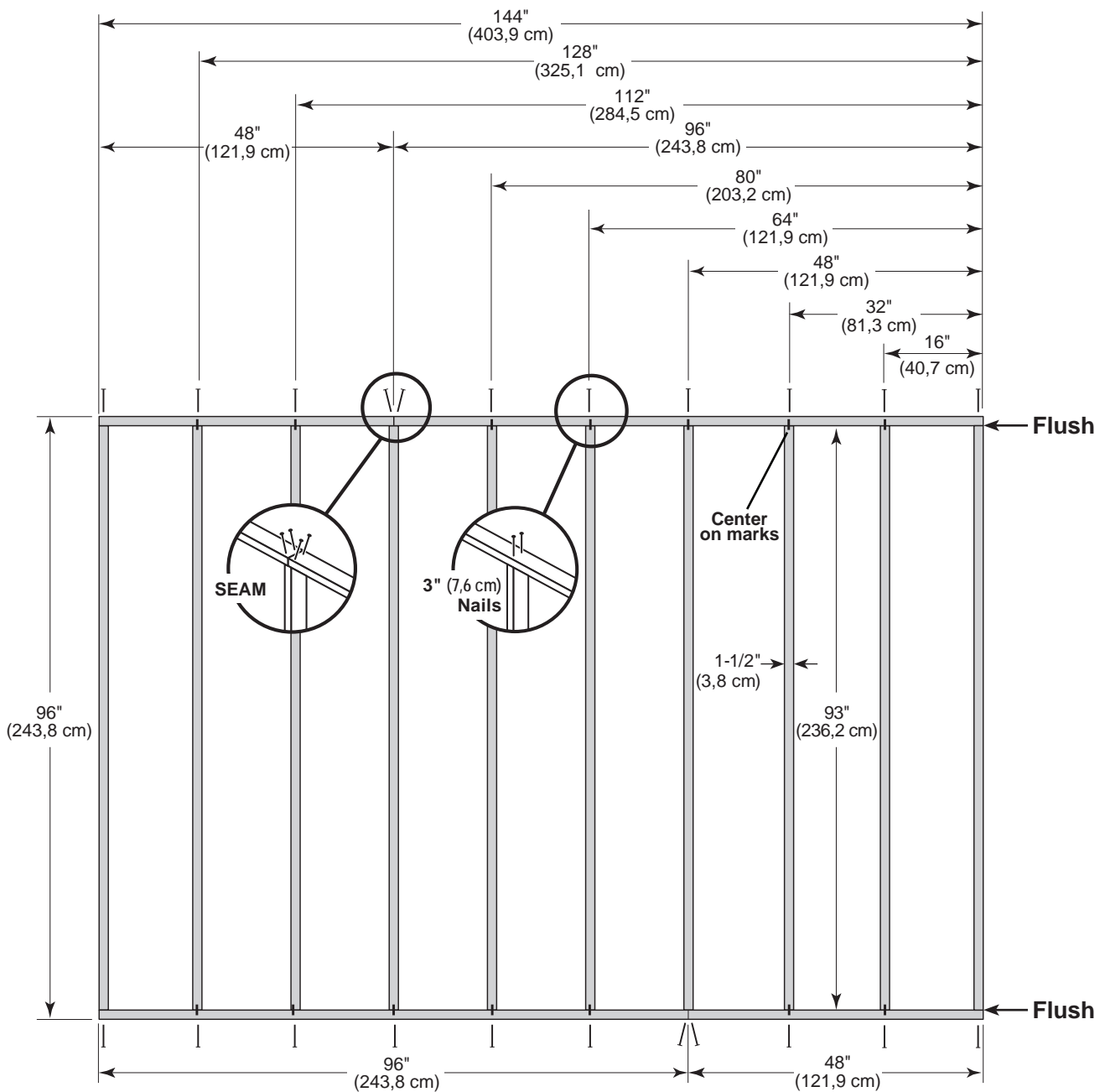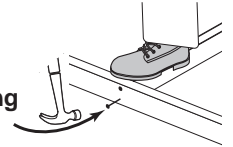
Your floor frame is now assembled. Proceed to level and square frame.

9

FLOOR FRAME

✓**BEGIN**
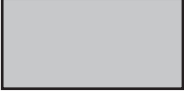
1 ⚠ See page 7 for the preferred floor leveling method.

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 173-1/16" (439,6 cm).

4 When the frame is level and square, secure one side of frame to the 4x4 runners with 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)**.

Second, secure at ends with one fastener.

First, secure at ends with one fastener.

Fig. A

173-1/16" (439,6 cm)

173-1/16" (439,6 cm)

DOOR

🏁**FINISH**
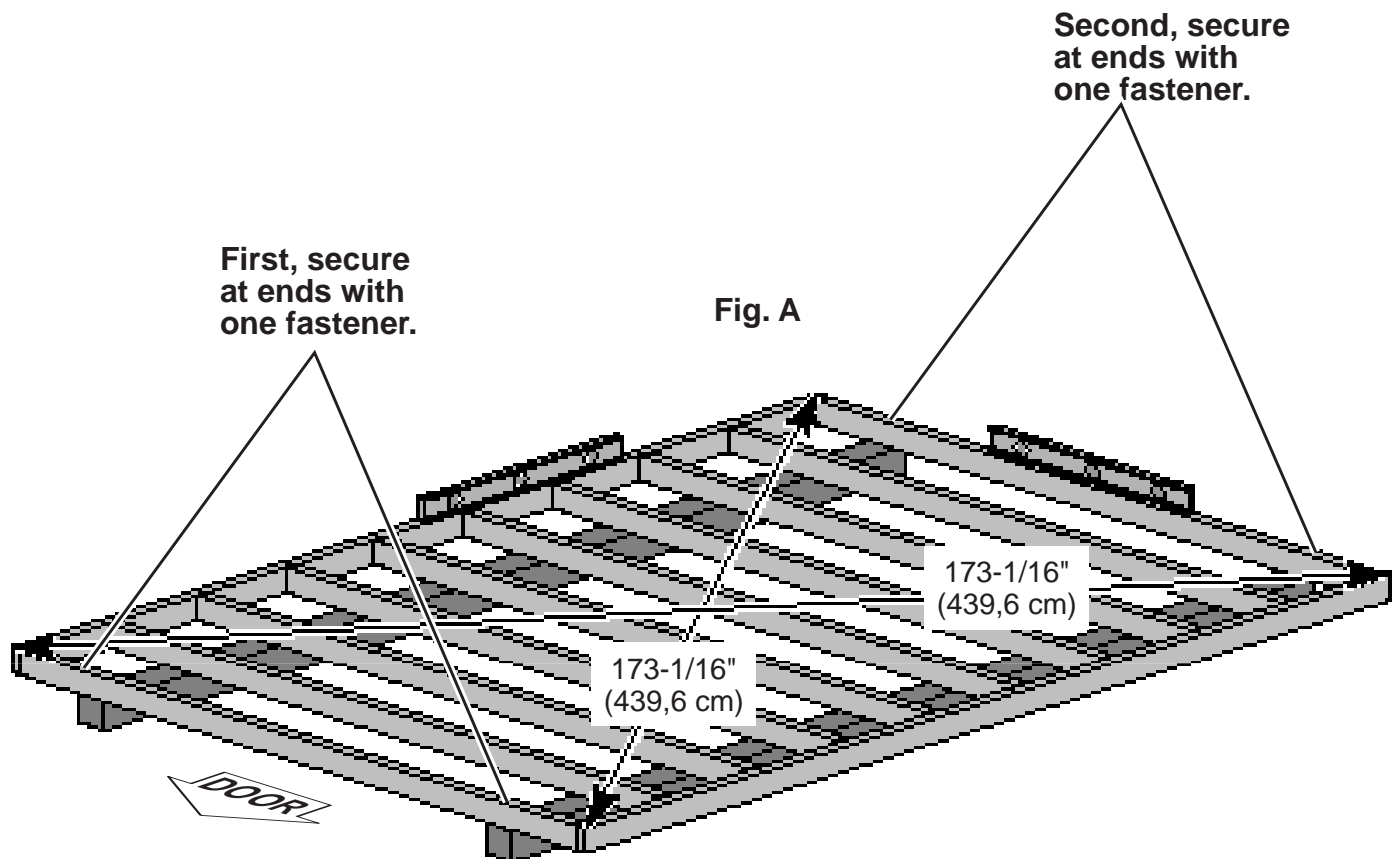
Once the floor frame is level and square fasten the frame to at each point the frame contacts the 4x4 runners .

FLOOR PANELS

PARTS REQUIRED:

x3 — 5/8 x 48 x 96"
(1,6 x 121,9 x 243,8 cm)

GAA
3/4" GAUGE BLOCK

x186 — 2" (5,1 cm)

BEGIN

1 Place right **48"x 96"** panel on frame with rough side up (painted grid lines), flush at edges.
Use **GAA** as a gauge block to maintain the 3/4" measurement on the floor joist.
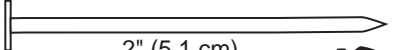Secure the panel with 2" nails spaced 6" apart on edges and 12" apart inside panel.

For squareness maintain 3/4" measurement along panel edge. **!**

BEGIN HERE → 3/4" (1,9 cm)

Flush

12" (30,5 cm)

Grid lines up

3/4" Gauge Block

6" (15,2 cm)

3/4" (1,9 cm)
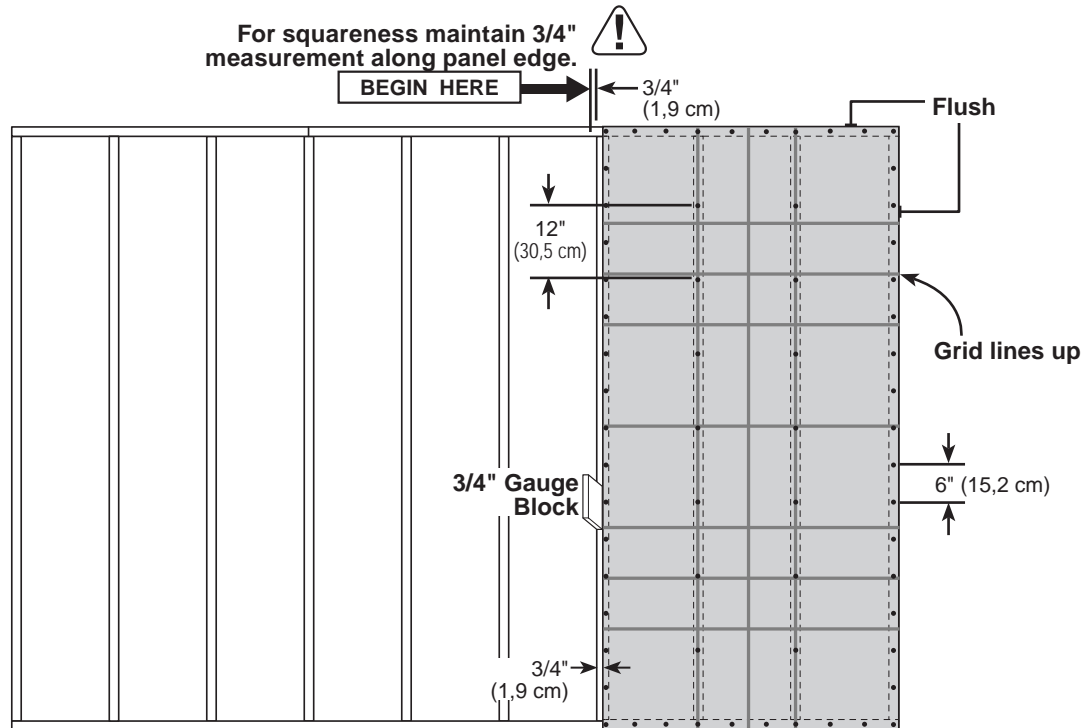
2 Continue installing 2 more **48"x 96"** panels as in step 1. Install middle panel first.
Secure panels with 2" nails spaced 6" apart on edges and 12" apart inside panels.

Flush

6" (15,2 cm)

12" (30,5 cm)

3/4" Gauge Block

3/4" Gauge Block

Grid lines up

3/4" (1,9 cm)
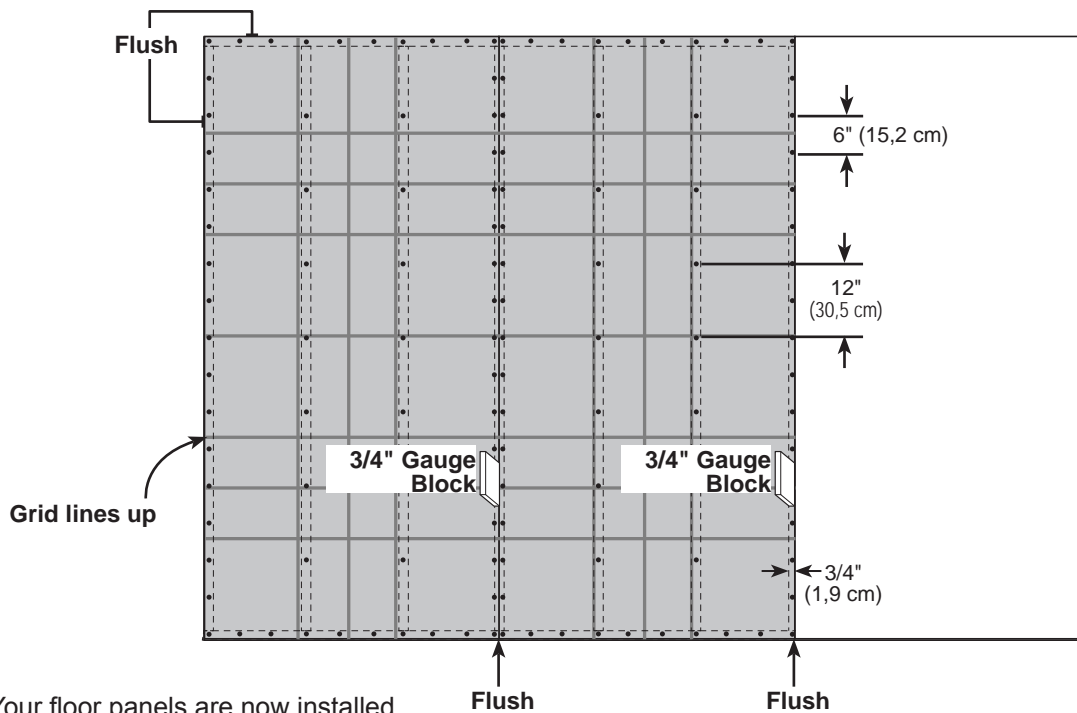
FINISH
Your floor panels are now installed.

Flush

Flush

11

⚠ IMPORTANT!

STOP! **Ensure the floor frame is level after installing floor panels.
Re-level if necessary.**

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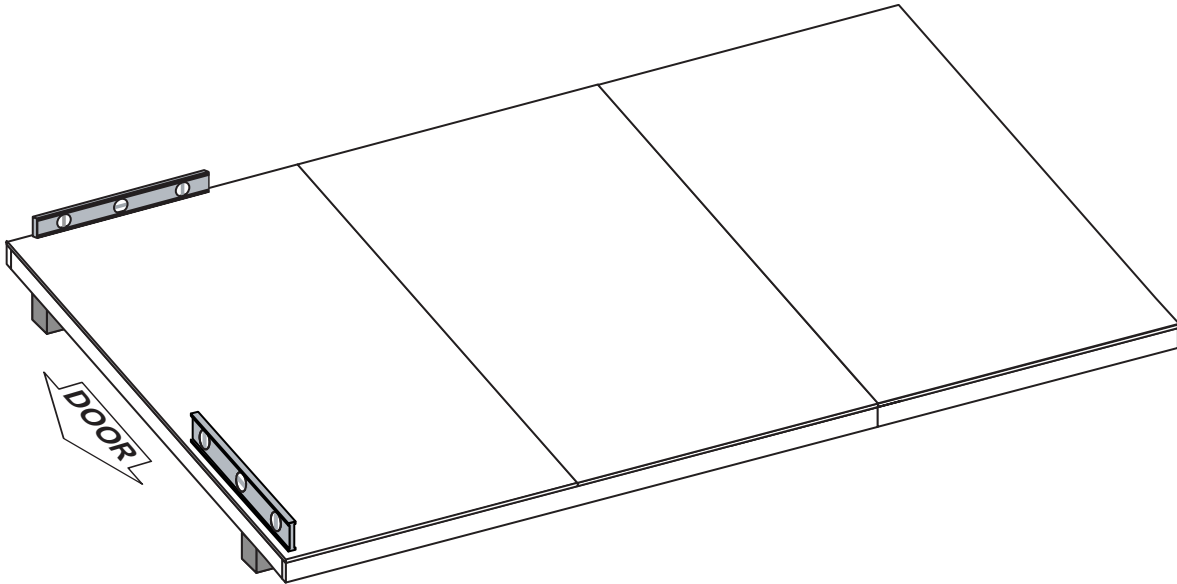
HINT:
- **The floor should be used as a stable work surface for wall construction.**
- **Organize your assembly procedure during the build process
  to avoid over-handling of the walls.**

BACK WALL
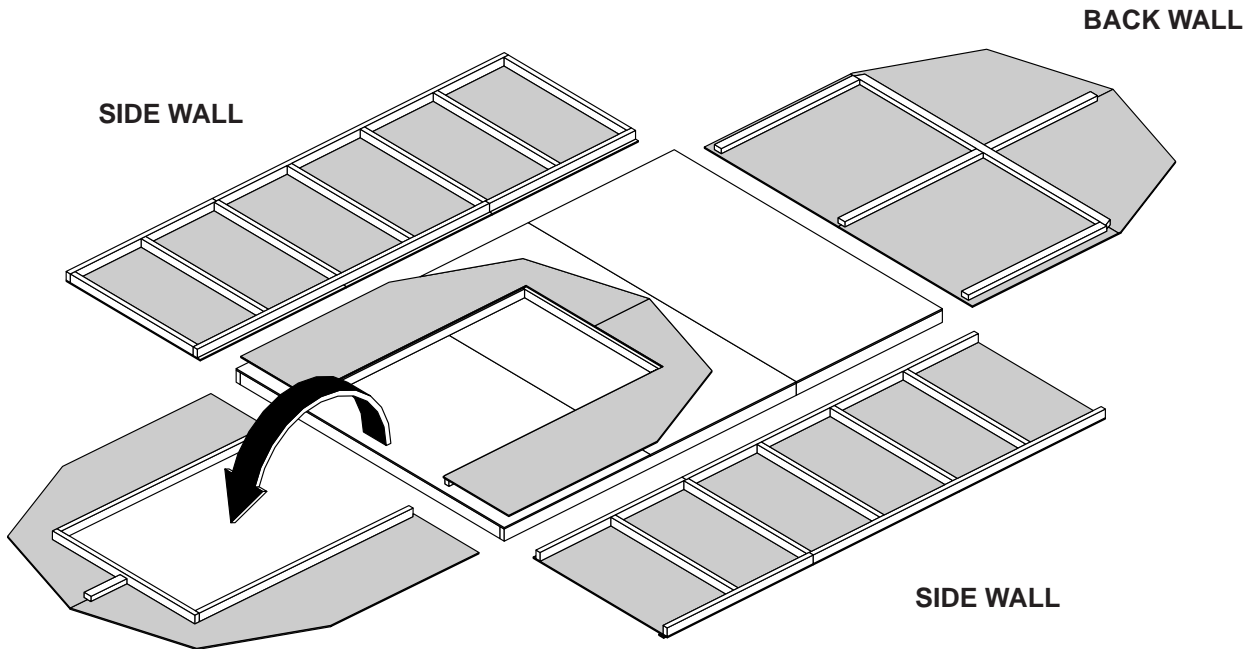
SIDE WALL

SIDE WALL

FRONT WALL

WALL PANEL INSTALLATION HINTS & EXAMPLES

PARTS REQUIRED:

GAA
3/4" GAUGE BLOCK

x40 2" (5,1 cm)

3/8 x 48 x 48"
(1 x 121,9 x 121,9 cm)

x1
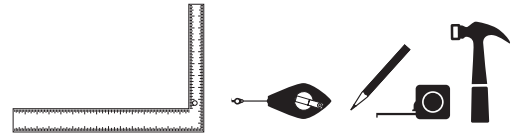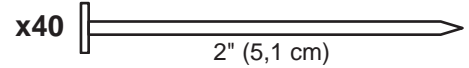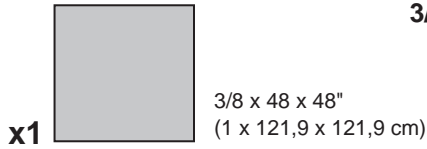
⚠ *Ensure your wall is square by installing one panel and squaring frame.*

Install all wall panels with the primed side facing up.

✓**BEGIN**

1 Place (1) **(48" x 48")** panel on the wall frame, as shown.
Locate the panel flush to the top plate.
Use the gauge block to mark the 3/4" side measurement on the wall stud.
Secure panel with (2) 2" nails in the corners **(Fig. A).**

2 Nails

Fig. A   3/4"
(1,9 cm)
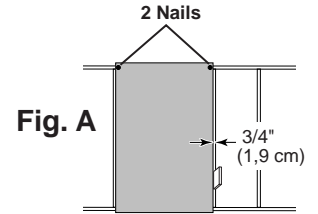
2 Move to the opposite end. Using the long edge of the panel as a lever,
move the panel side-to-side until you have a 3/4" measurement on the wall stud.
Secure corner with (2) 2" nails **(Fig. B)**.
Secure panel with 2" nails spaced 6" apart on edges and 12" apart inside panel.

Fig. B   3/4"
(1,9 cm)

2 Nails

⚠
For squareness maintain 3/4" and 1-1/2" measurement along panel edge.

3/4"
(1,9 cm)

BEGIN HERE

EXAMPLE WALL

6" (15,2 cm)

12" (30,5 cm)

HINT:

Angle nail to draw panels tight at seams.

3/4" Gauge Block

3/4"
(1,9 cm)

13
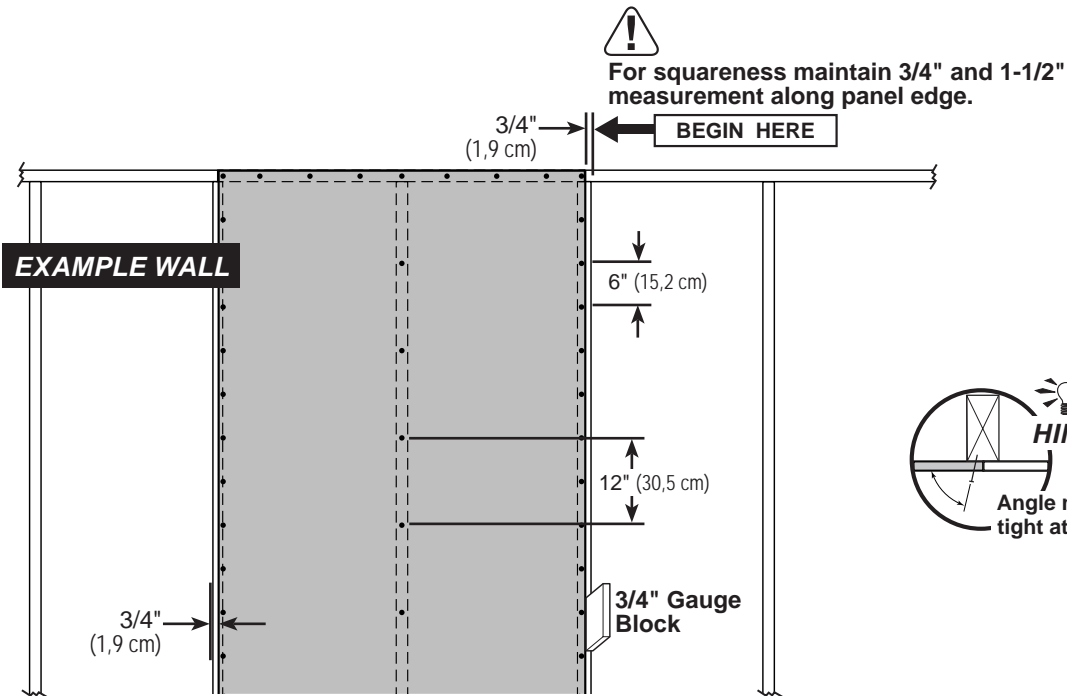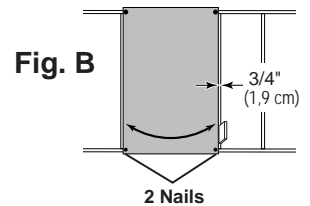
BACK WALL

PARTS REQUIRED:

x3 | NE
2 x 3 x 45-1/2" (5,1 x 7,6 x 115,6 cm)

x1 | ELC
2 x 3 x 90-1/8"" (5,1 x 7,6 x 228,9 cm)

x4 3" (7,6 cm)

3/16" (4,8 mm) Drill Bit
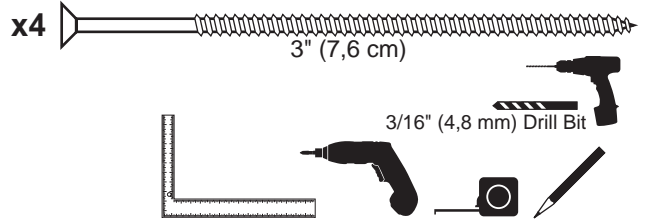
√ BEGIN

1 Arrange parts on the flat side, on a flat surface. Measure and mark.
Secure parts with 3" screws, angled.
Pre-drill all holes.

45-1/16"
(114,5 cm)

45-1/16"
(114,5 cm)

7/16"
(11 mm)

7/16"
(11 mm)

3" (7,6 cm)
Screws

ELC

NE (x3)

45-1/2"
(115,6 cm)

45-1/2"
(115,6 cm)

14

BACK WALL PANELS

PARTS REQUIRED:

x1 3/8 x 48 x 48"
(1 x 121,9 x 121,9 cm)

x21 1-1/2" (3,8 cm)

Install panels with the primed side facing up.

2 Install (1) **48" x 48"** wall panel on frame, as shown. Ensure 1-1/4" measurement on center brace.
Maintain 1" along the top of the horizontal brace **(ELC)** and 1-1/4" centered on the center brace **(NE)**.
Secure panel to horizontal brace with (4) 1-1/2" nails spaced evenly.

3 Ensure panel edge is 1-1/4" centered on the center brace **(NE)**.
Secure panel with 1-1/2" nails spaced 6" apart.

4 Ensure end wall brace **(NE)** is 2-1/2" from the panel edge.
Secure with 1-1/2" nails spaced 6" apart.

1"
(2,5 cm)

2-1/2" (6,3 cm)

ELC

1-1/4"
(3,2 cm)

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

Install wood grain vertical

6"
(15,2 cm)

1-1/4"
(3,2 cm)

1"
(2,5 cm)

1"
(2,5 cm)

2-1/2" (6,3 cm)

15

BACK WALL PANELS

PARTS REQUIRED:

x4   1-1/2" (3,8 cm)

x21   1-1/2" (3,8 cm)

x1   **(8' Z-Channel)**

x1   3/8 x 48 x 48"
(1 x 121,9 x 121,9 cm)

5 Install 2nd **48" x 48"** wall panel on frame, flush to installed panel.
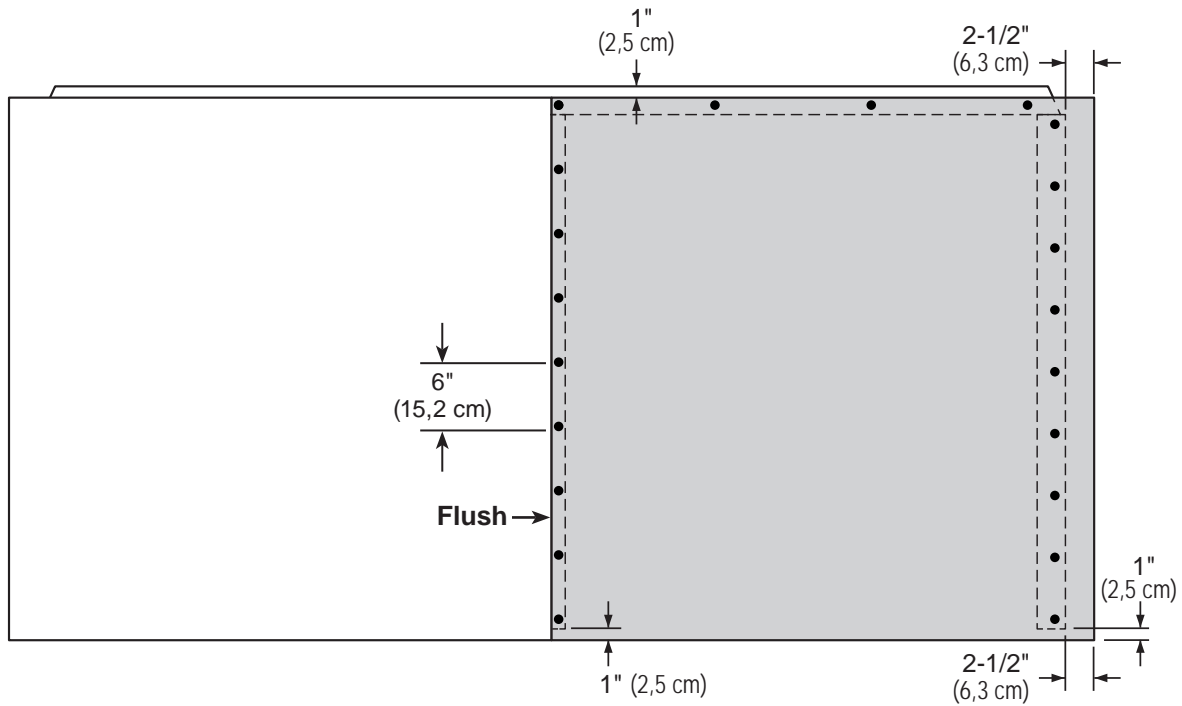Maintain 1" along the top of the horizontal brace.
Secure panel to horizontal brace with (4) 1-1/2" nails spaced evenly.

6 Secure panel to center brace with 1-1/2" nails spaced 6" apart.

7 Ensure end wall brace is 2-1/2" from the panel edge.
Secure with 1-1/2" nails spaced 6" apart.

1"
(2,5 cm)

2-1/2"
(6,3 cm)

6"
(15,2 cm)
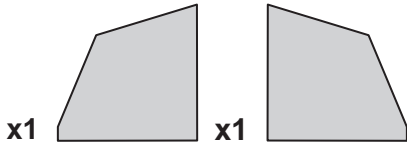
Flush →

1"
(2,5 cm)

1" (2,5 cm)

2-1/2"
(6,3 cm)

8 Install the 8' Z-Channel on frame, flush along edge and overlapping installed panels **(Fig. A)**.
Tack in place with (4) 1-1/2" finishing nails, as shown.

Fig. A

ELC
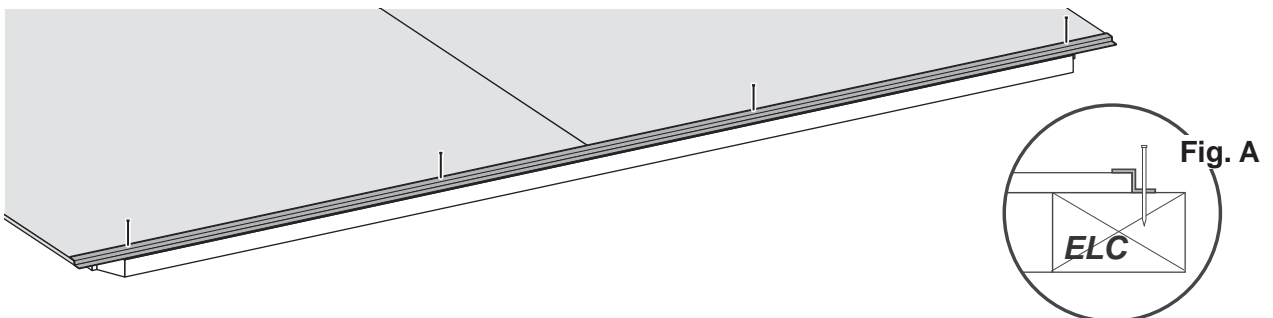
FINISH
Your back wall is now assembled.

16

BACK WALL GABLE UNIT

PARTS REQUIRED:

x1   x1

x1 | BSN
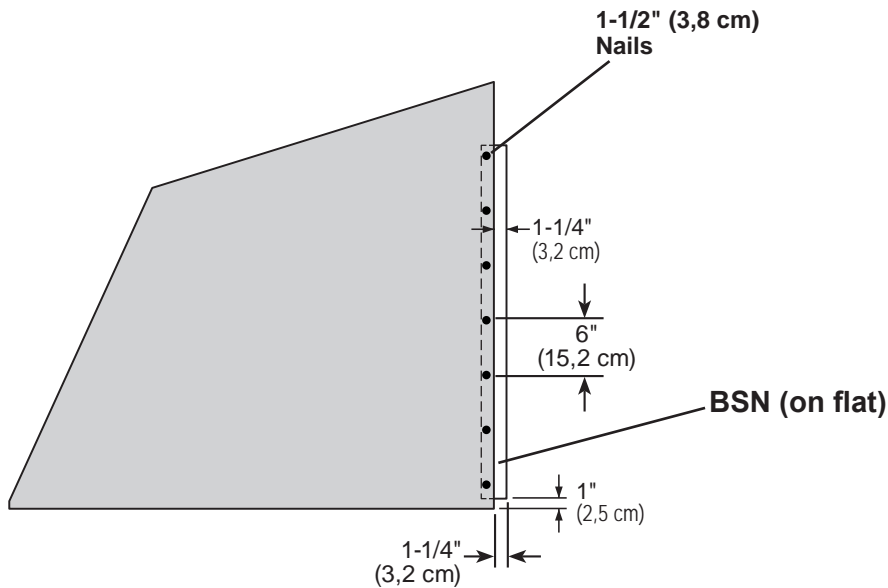2 x 3 x 35" (5,1 x 7,6 x 88,9 cm)

x14 — 1-1/2" (3,8 cm)

Install gable panels with the primed side facing up.

✓**BEGIN**

1 Lay **BSN** on the flat side. Install left gable panel on **BSN** at measurements shown.
Secure with 1-1/2" nails spaced 6" apart.

**1-1/2" (3,8 cm)
Nails**

1-1/4"
(3,2 cm)

6"
(15,2 cm)

BSN (on flat)

1"
(2,5 cm)

1-1/4"
(3,2 cm)

2 Install right gable panel flush to installed panel.
Secure to **BSN** with 1-1/2" nails spaced 6" apart.

**1-1/2" (3,8 cm)
Nails**

Flush →

6"
(15,2 cm)

Flush
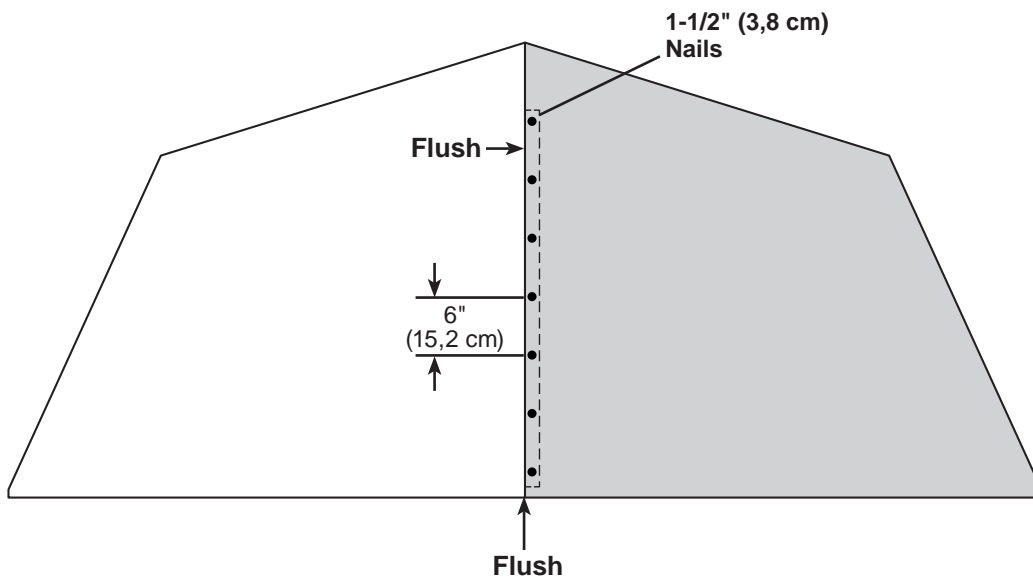
🏁**FINISH**

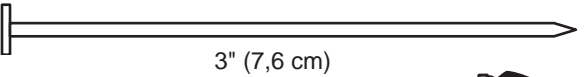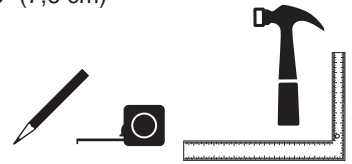Your back gable unit is now assembled.

17

SIDE WALLS

PARTS REQUIRED:

x14 | AFE
2 x 3 x 44" (5,1 x 7,6 x 111,8 cm)

x4 | NK
2 x 3 x 48" (5,1 x 7,6 x 121,9 cm)

x4 | PT
2 x 3 x 96" (5,1 x 7,6 x 243,8 cm)

x32 ——— 3" (7,6 cm)

✓**BEGIN**

1 Arrange parts on edge on floor as shown. Measure and mark.

Secure with (2) 3" nails at each connection and (4) 3" nails angled at seams.

HINT:
For easier nailing
stand on frame.

144"
(365,8 cm)

120"
(304,8 cm)

96"
(243,8 cm)

72"
(182,9 cm)

48"
(121,9 cm)

96"
(243,8 cm)

24"
(61 cm)

96"
(243,8 cm)

Flush

PT

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

44"
(111,8 cm)

AFE
(x7)

3" (7,6 cm)
Nails

SEAM

NK

NK

PT

Seam

Flush

48"
(121,9 cm)

96"
(243,8 cm)

18

SIDE WALL PANELS

PARTS REQUIRED:

x3 3/8 x 48 x48"
(1,0 x 121,9 x 121,9 cm)

GAA
3/4"
GAUGE BLOCK

x105 2" (5,1 cm)
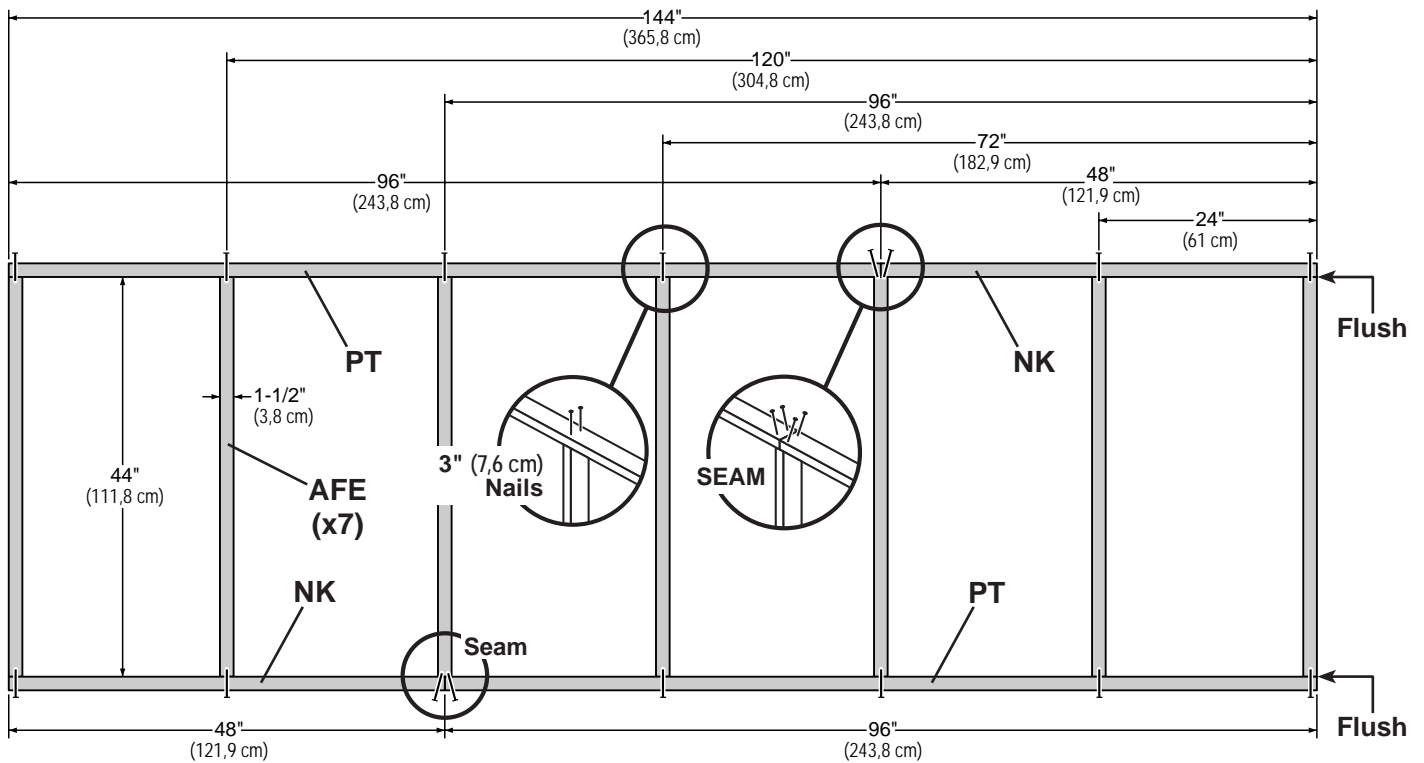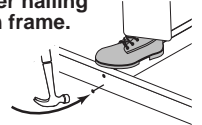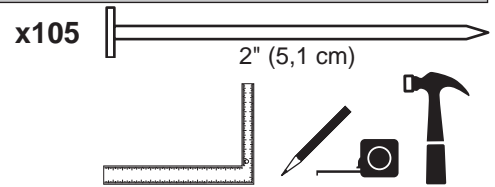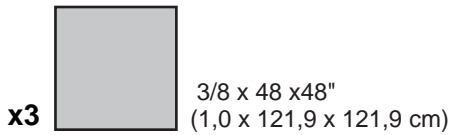
Install panels with the primed side facing up.

Arrange panels with the wood grain positioned vertically.

2 Install (1) **48" x 72"** panel flush to the top plate.

Use the gauge block for consistent measurement on the wall stud.

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

BEGIN HERE
3/4"
(1,9 cm)

Flush

6" (15,2 cm)

12"
(30,5 cm)

3/4" Gauge
Block

3/4" Gauge
Block

3 Install (2) **48" x 48"** panel flush to the top plate.

Use the gauge block for consistent measurement on the wall stud.

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

Flush

Flush

12"
(30,5 cm)

6" (15,2 cm)

← **Flush**

Flush →

Repeat steps to build your 2nd side wall.

FINISH

Your side walls are now assembled.

19

PARTS REQUIRED:

x1 | DT |
2 x 3 x 11-3/4" (5,1 x 7,6 x 29,8 cm)

x1 | EH |
2 x 3 x 51" (5,1 x 7,6 x 129,5 cm)

x2 | OZ |
2 x 3 x 70-1/4" (5,1 x 7,6 x 178,4 cm)
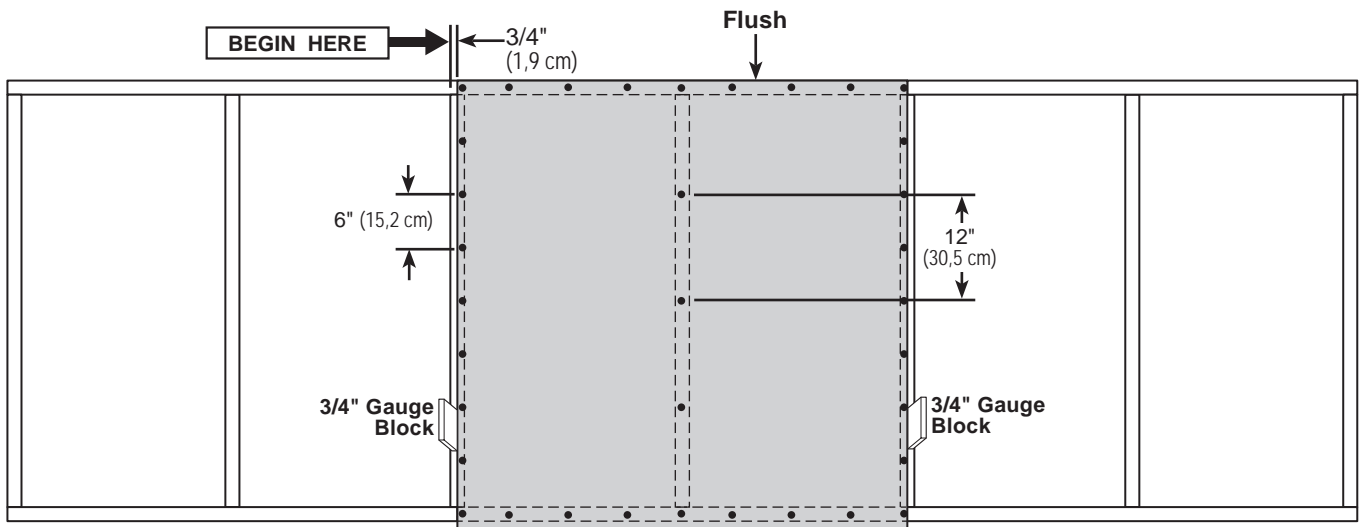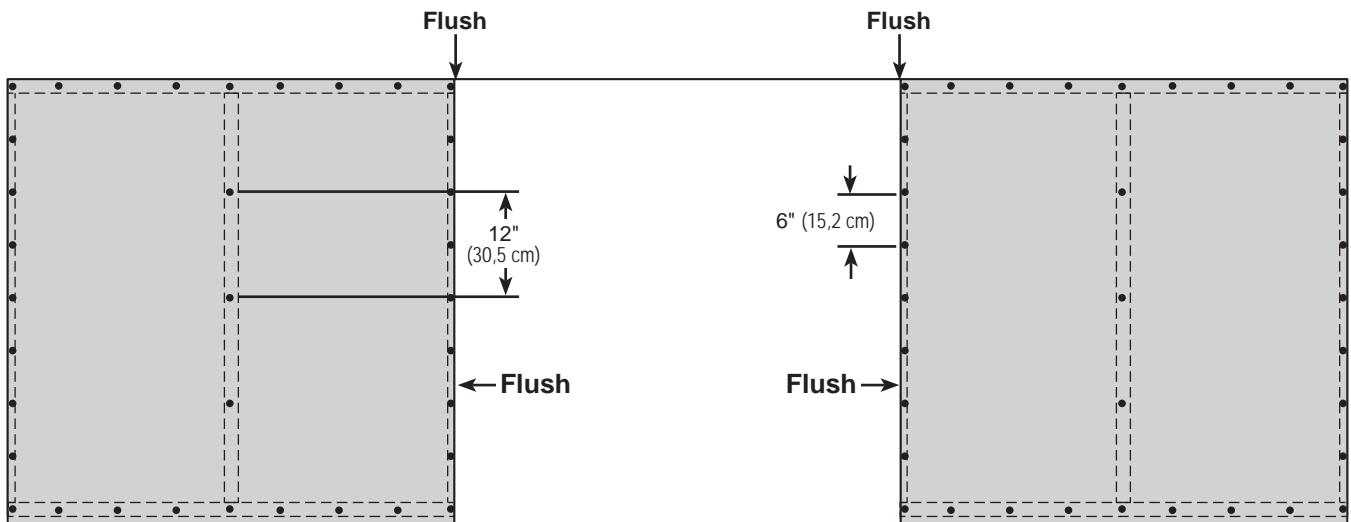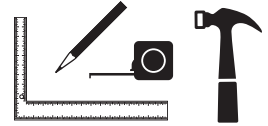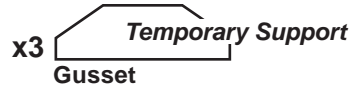
x6 — 3" (7,6 cm)

x3 Temporary Support
Gusset
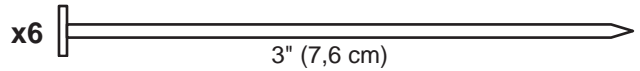
✓BEGIN
1

Arrange parts **EH** and **OZ** on edge, part **DT** on flat side, on a flat surface. Measure and mark center of **DT**. Secure with (2) 3" nails at each connection.

HINT:

25-1/2" (64,8 cm)   25-1/2" (64,8 cm)

DT

3" (7,6 cm) **Nails**

Flush   Flush

EH
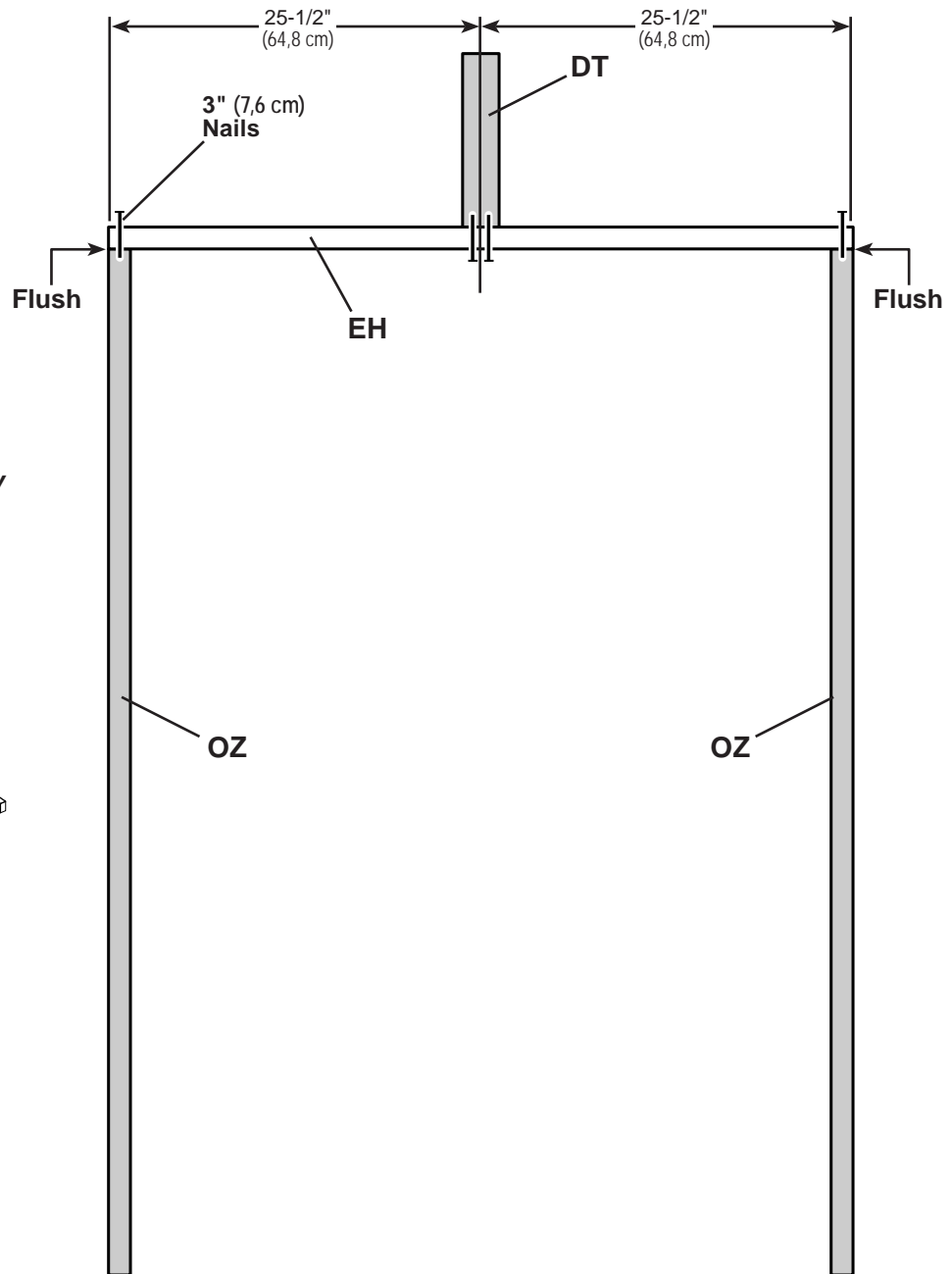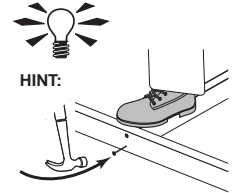
Carefully turn over the front wall frame and support DT. Use (3) gussets as temporary supports.

OZ   OZ

FRONT WALL

PARTS REQUIRED:

x2 | OO | *Temporary Support*
69" Door Stiffener (175,3 cm)

x2 | 3" (7,6 cm)

x1   x1

x34 | 2" (5,1 cm)

x4 | 1-1/2" (3,8 cm)
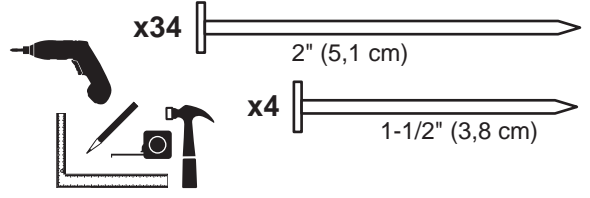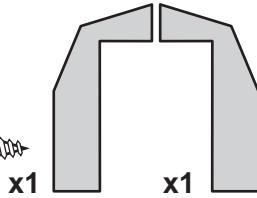
Install panels with the primed side facing up.

2

Install (1) front wall panel centered on frame and 1" above upper door frame. Maintain 1/2" along door stud before nailing.

Secure the panel with 2" nails spaced 6" apart along edges.
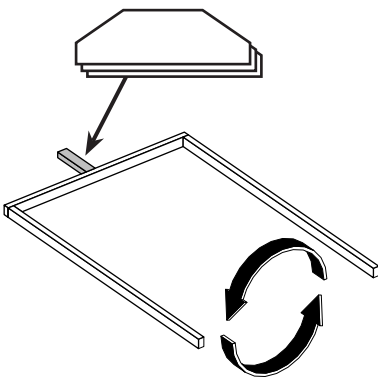
Secure panel to gable connector (DT) with 1-1/2" nails, as shown.

DT

1-1/4" (3,2 cm)

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

Stack (3) gussets as temporary supports.

1" (2,5 cm)

1/2" (12,7 mm)

6" (15,2 cm)

1/2" (12,7 mm)
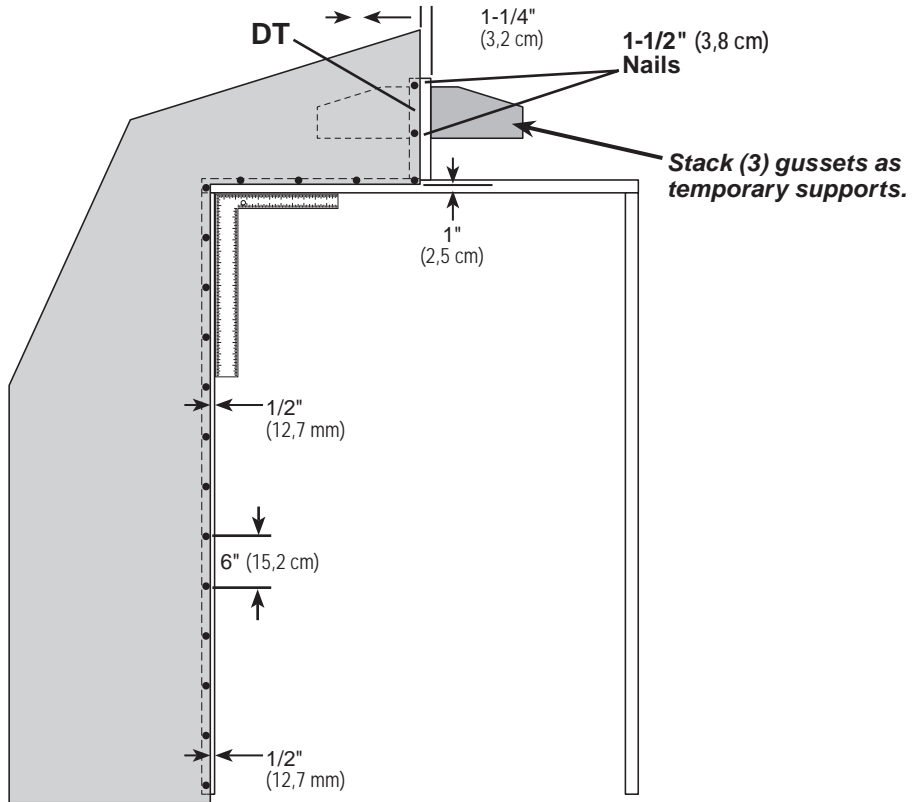
2

Install 2nd front wall panel flush to installed panel at gable, and 1" above upper door frame. Maintain 1/2" along door stud before nailing.

Secure the panel with 2" nails spaced 6" apart along edges.

Secure gable connector (DT) with 1-1/2" nails, as shown.

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

Flush →

2" (2,5 cm)
Nails

Flush → 1" (2,5 cm)

1/2" (12,7 mm)

6" (15,2 cm)
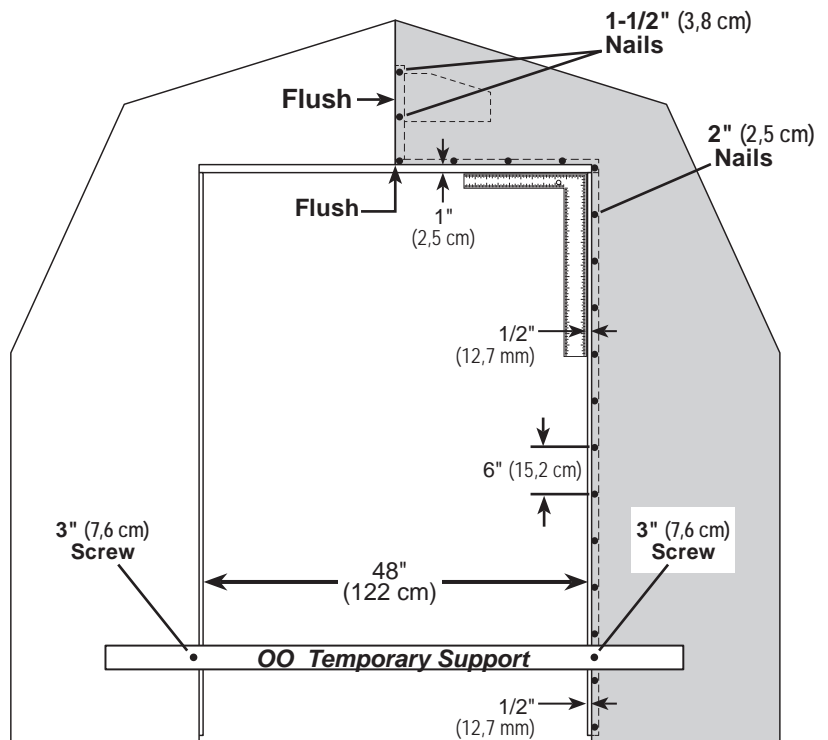
3

Ensure 48" door opening by installing **OO** as a temporary brace. Secure with (2) 3" screws.

3" (7,6 cm)
Screw

3" (7,6 cm)
Screw

48" (122 cm)

OO Temporary Support

FINISH

Your front wall is now assembled.

1/2" (12,7 mm)

21

RIGHT SIDE WALL INSTALLATION

PARTS REQUIRED

x2 | **OO**   *Temporary Support*
69" Door Stiffener (175,3 cm)

x2   3" (7,6 cm)

x12   3" (7,6 cm)

x27   2" (5,1 cm)

✓**BEGIN**

1 Center right wall on the floor.
Ensure the 1" overlap is to the bottom.
Install **OO** as a temporary brace.
Secure with (2) 3" screws.

OO

⚠ 1" (2,5 cm)

DOOR

**3" (7,6 cm)
Screws**
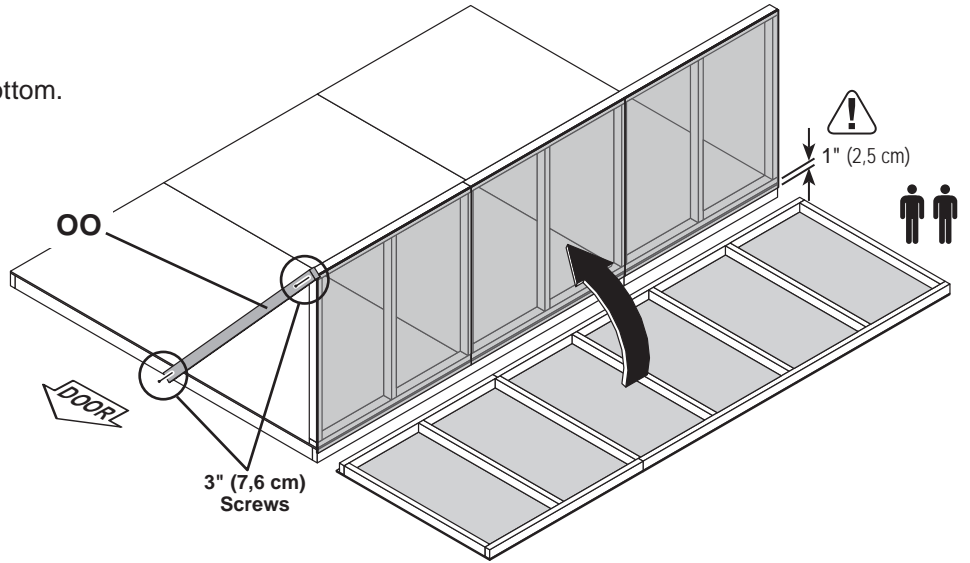
2 Secure lower edge of panels to floor frame with 2" nails spaced 6" apart.
Angle nails into floor frame **(Fig. A)**.
Secure side wall bottom plates to floor with 3" nails **(Fig. A)**.

**3" (7,6 cm)
Nails**

**2" (5,1 cm)
Nails**

**3" (7,6 cm)
Nails**

⚠ **Nail 2" nails first.**

Fig. A

**2" (5,1 cm)
Nails**

**Angle nails into
floor frame.**

🏁**FINISH**
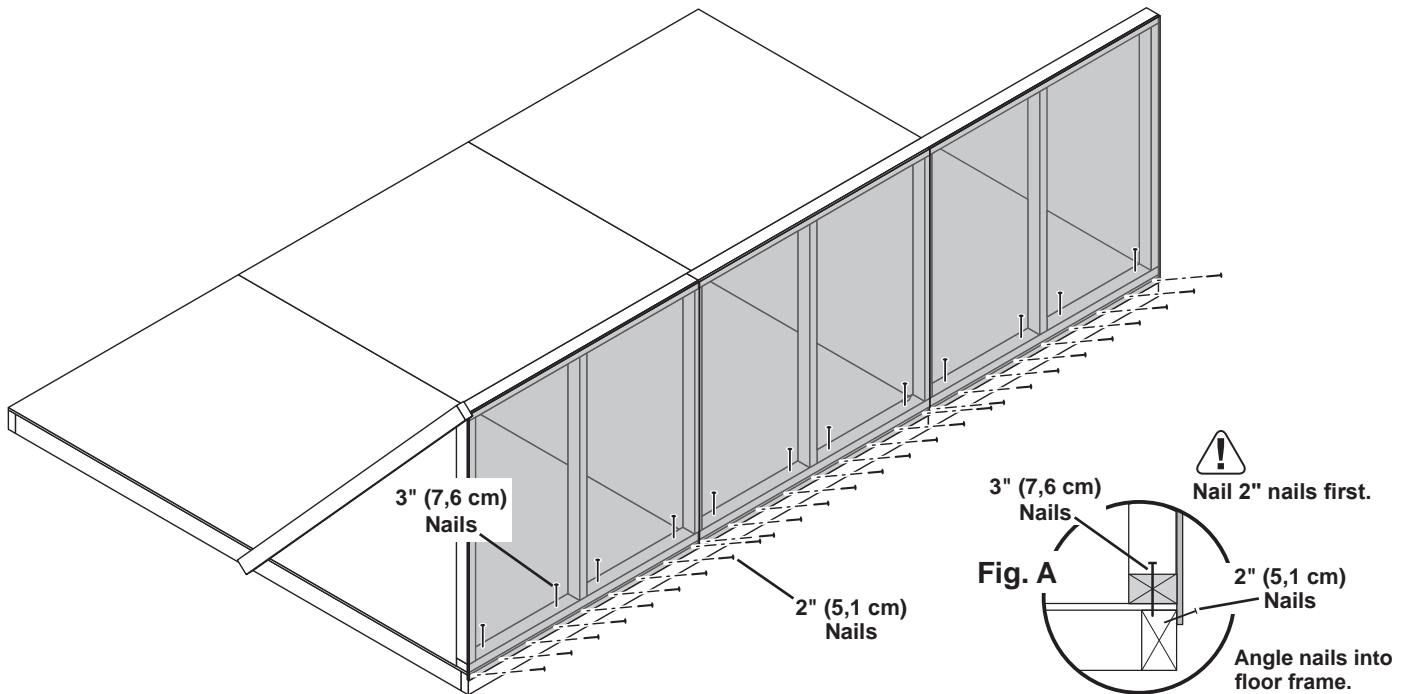
Your right side wall is now installed.

BACK WALL INSTALLATION

PARTS REQUIRED:

x18 2" (5,1 cm)

x7 1-1/2" (3,8 cm)

x4 3" (7,6 cm)

x2 2" (5,1 cm)

✓**BEGIN**

1 Center back wall on floor. Secure top and bottom of wall with (1) 2" screw into top plate and (1) 2" screw into the floor frame **(Fig. A, C)**.

⚠ **ENSURE PANEL CORNERS ARE FLUSH.**

2 Secure lower edge of panels to floor with 2" nails spaced 6" apart. Angle nail to hit floor frame **(Fig. B)**.

Flush

2" (3,8 cm) Screw

Flush

Fig. A

2" (5,1 cm) Screw

Flush

2" (5,1 cm) Screw

6" (15,2 cm)

2" (5,1 cm) Nails

2" (5,1 cm) Nail

Fig. B

Angle nail to hit floor frame.

3 Secure back wall panel to side wall stud with 1-1/2" nails spaced 6" apart.

Secure back wall frame to floor with (3) 3" screws, as shown.
Pre drill screw holes.

6" (15,2 cm)

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

3" (7,6 cm) Screws

LEFT SIDE WALL INSTALLATION
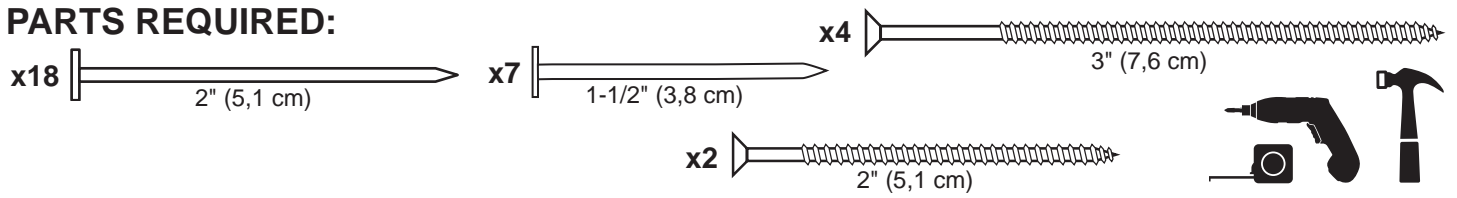
PARTS REQUIRED: **x2** 2" (5,1 cm) **x12** 3" (7,6 cm)

x27 2" (5,1 cm) **x7** 1-1/2" (3,8 cm)

✓**BEGIN**

1 Center left wall on floor.
Ensure the 1" overlap is to the bottom.
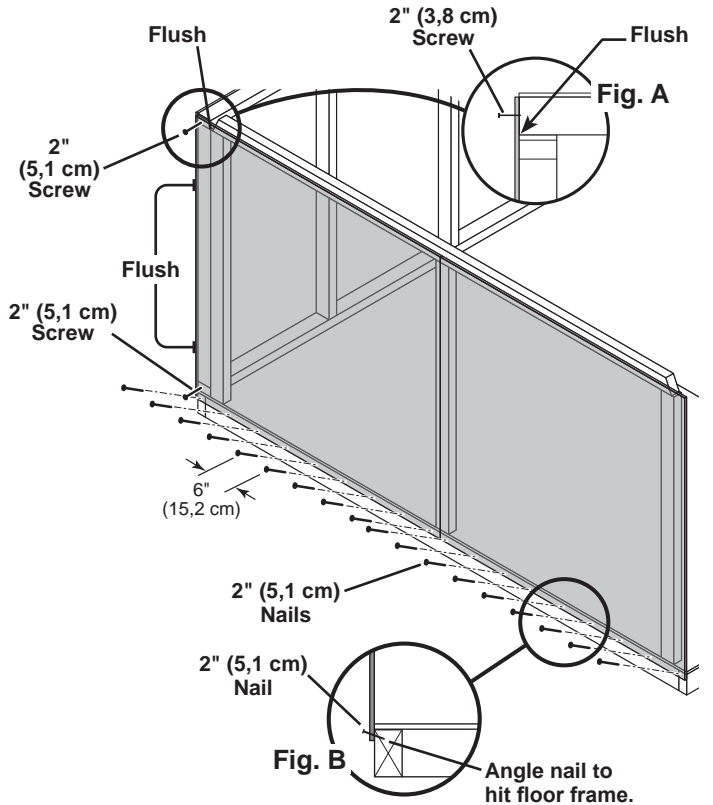Secure top and bottom of wall with
(1) 2" screw into top plate and (1) 2"
screw into the floor frame **(Fig. A)**.
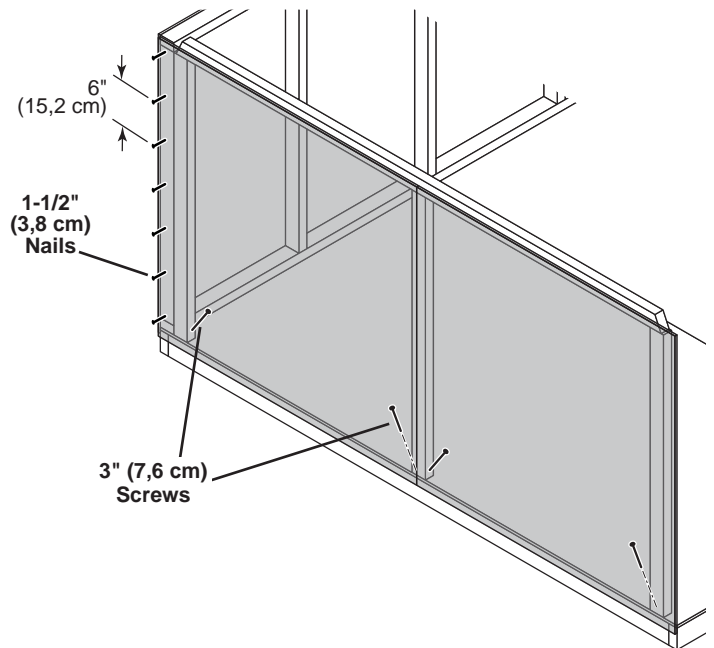
⚠️ **ENSURE PANEL CORNERS ARE FLUSH.**

2 Secure bottom of panels to floor with
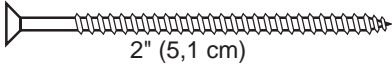2" nails spaced 6" apart.
Angle nails into floor frame **(Fig. B)**.

Flush

Fig. A

2" (3,8 cm) Screw

6" (15,2 cm)

Flush

2" (5,1 cm) Screw

1" (2,5 cm) ⚠️

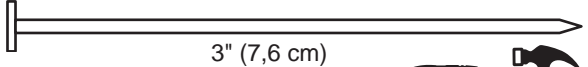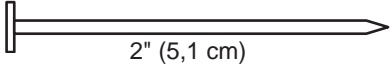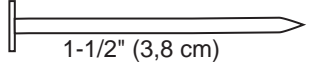**2" (5,1 cm) Nails**
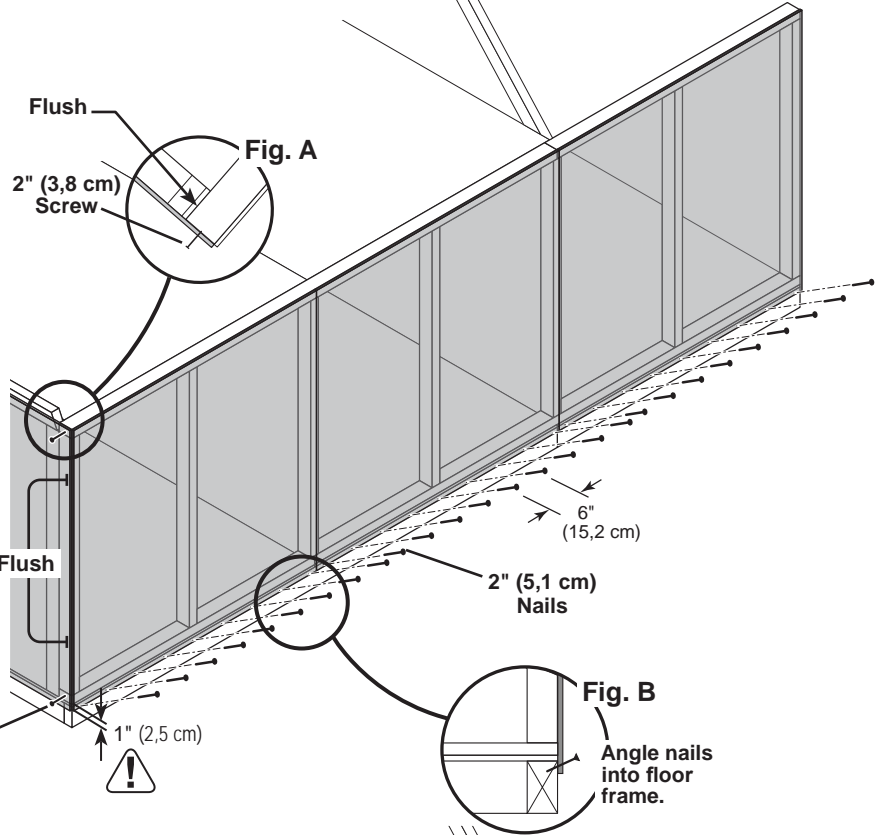
Fig. B

Angle nails into floor frame.
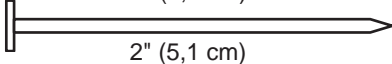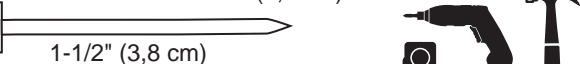
3 Secure back wall panel to side wall stud with 1-1/2" nails
spaced 6" apart.
Secure bottom plate to floor with 3" nails, as shown.

🏁**FINISH**

Your back wall and left side walls are now installed.

6" (15,2 cm)

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

3" (7,6 cm) Nails

24

FRONT WALL INSTALLATION

PARTS REQUIRED: x4 | 2" (5,1 cm) x2 | 3" (7,6 cm)

x8 | 2" (5,1 cm) x14 | 1-1/2" (3,8 cm)

✓**BEGIN**

1 Install front wall between left and right walls. Secure wall with 2" screws into each side wall top and bottom plates **(Fig. A)**.
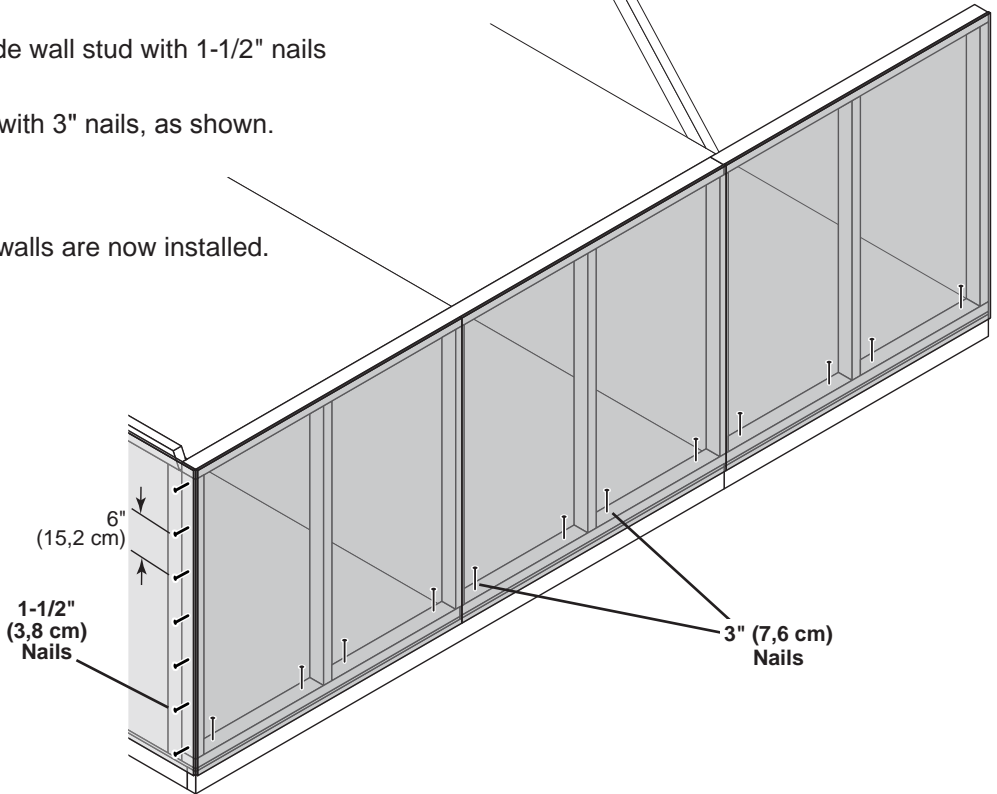
⚠ **ENSURE PANEL CORNERS ARE FLUSH.** ⚠

2 Secure bottom of panels to floor with 2" nails spaced 6" apart. Angle nails into floor frame **(Fig. B)**.
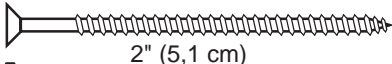
2" (5,1 cm) Screw

Flush

2" (5,1 cm) Screw

6" (15,2 cm)

Fig. A

Flush

2" (5,1 cm) Screw

Flush

2" (5,1 cm) Screw

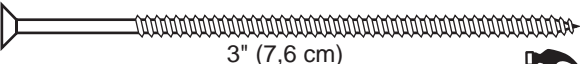6" (15,2 cm)

Fig. B

Angle nails into floor frame.
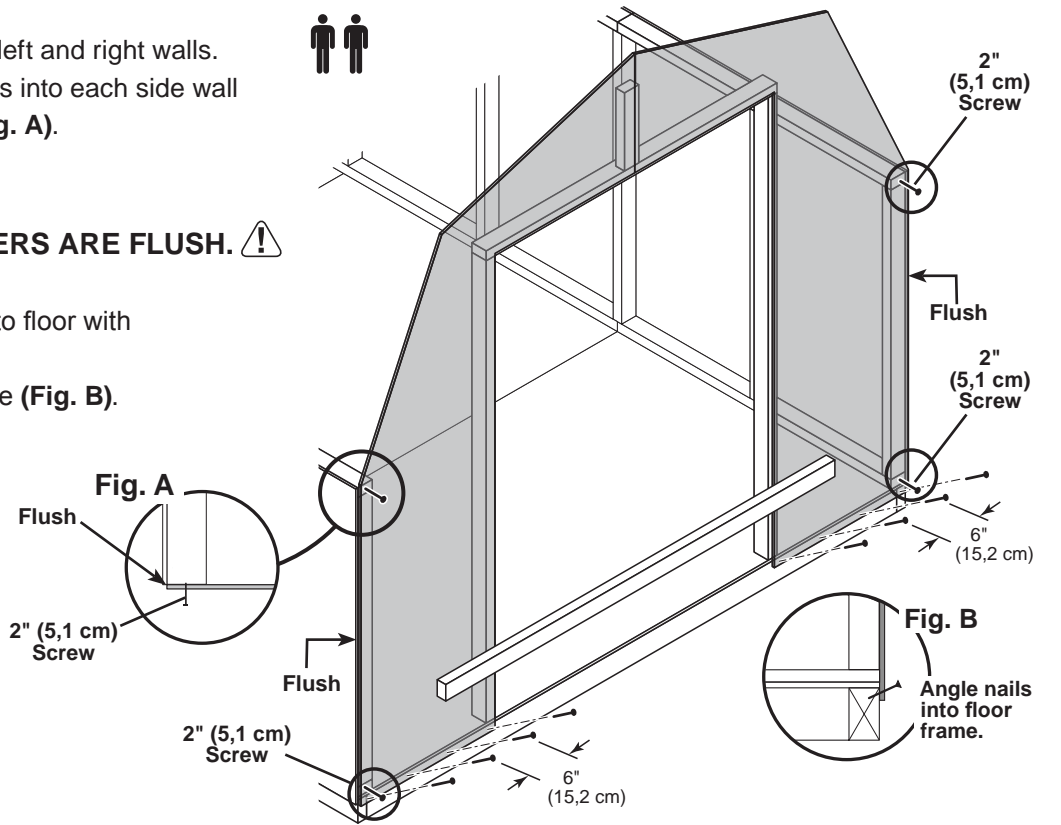
3 Secure front wall panels to side wall studs with 1-1/2" nails spaced 6" apart.

Working inside, secure back side of door studs to floor with 3" screws angled nto floor frame.

6" (15,2 cm)

1-1/2" (3,8 cm) Nails
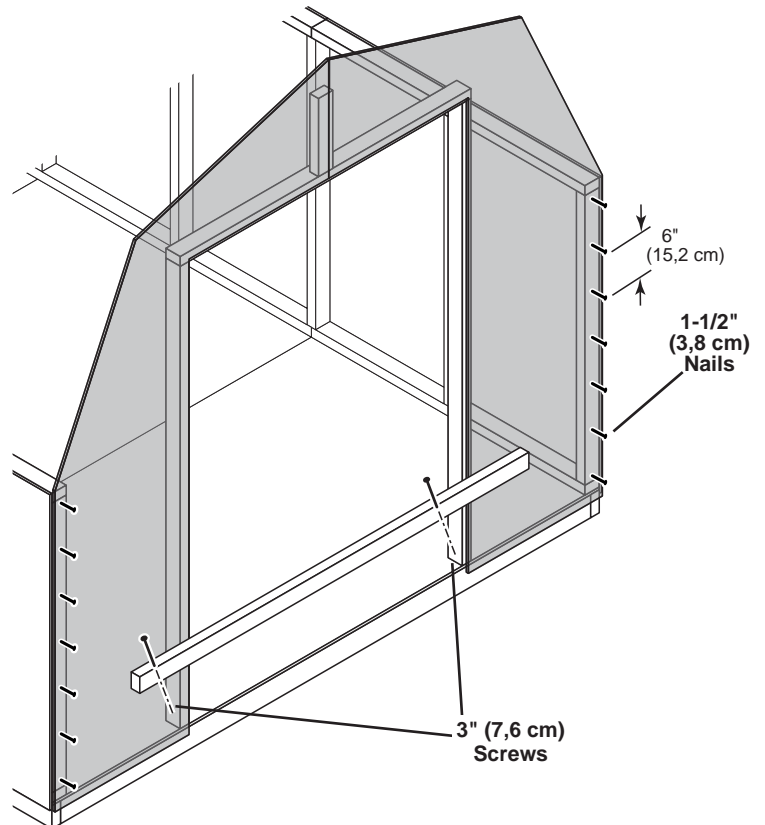
🏁**FINISH**

Your front wall is now installed.

Remove temporary brace.

3" (7,6 cm) Screws

RAFTERS

PARTS REQUIRED:

x14 SUB-ASSEMBLED TRUSS

x12 6 x 24" (15,2 x 61 cm)

GAA 3/4" GAUGE BLOCK

x2 3" (7,6 cm)

x144 2" (5,1 cm)
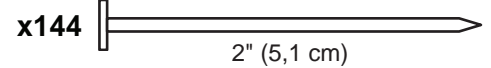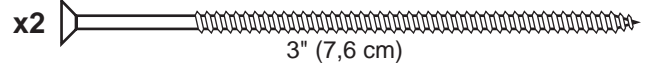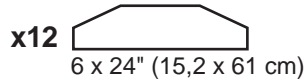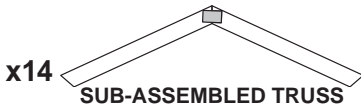
⚠ **You will build 7 rafters. (2) rafters will have *ONE* gusset. (5) rafters will have *TWO gussets.* ** ⚠

✓**BEGIN**

1 Make a jig so trusses will all have the same measurement using the shed floor and 3/4" gauge block **(GAA)**.

2 Measure and mark the floor at 96-3/4" from the corner **(Fig. A)**.
Fasten **GAA** at mark with (2) 3" screws.

3 Place (2) sub-assembled trusses with red ends touching at peak **(Fig. A)**.
Place gusset with 1/4" offset on top of trusses **(Fig. B)**.
Secure gusset to trusses with (12) 2" nails in pattern shown **(Fig. B)**. Hold trusses tight at peak when nailing.

4 Install one gusset on **TWO** rafters. **(Fig. C)**.
With **FIVE** of the rafters, flip rafters over and attach a **SECOND** gusset **(Fig. D)**.

Fig. A

Flush

Match RED ENDS together.

96-3/4" (245,7 cm)

GAA Gauge Block

Flush

(2) 1-1/4" (3,2 cm) Screws

Secure gussets with 2" (2,5 cm) **nails.**

Fig. B

1/4" (1,9 cm) GAP

1/4" (1,9 cm) GAP

Match RED ENDS together.

Fig. C

Match RED ENDS together.

Fig. D
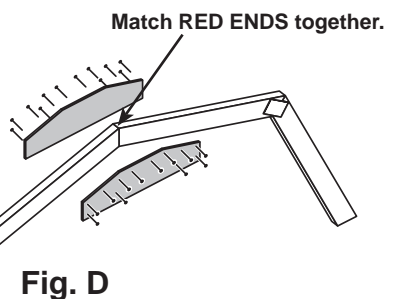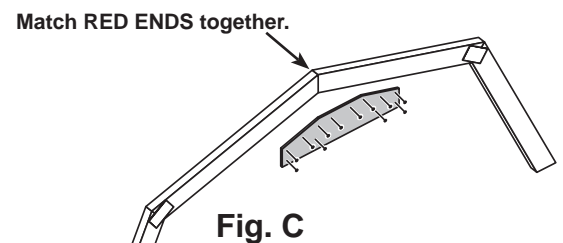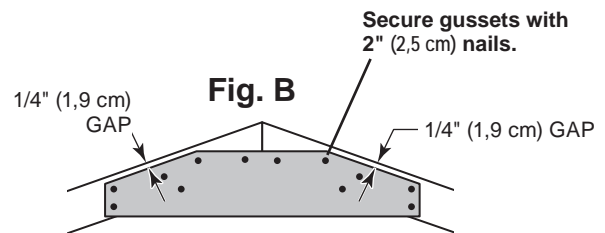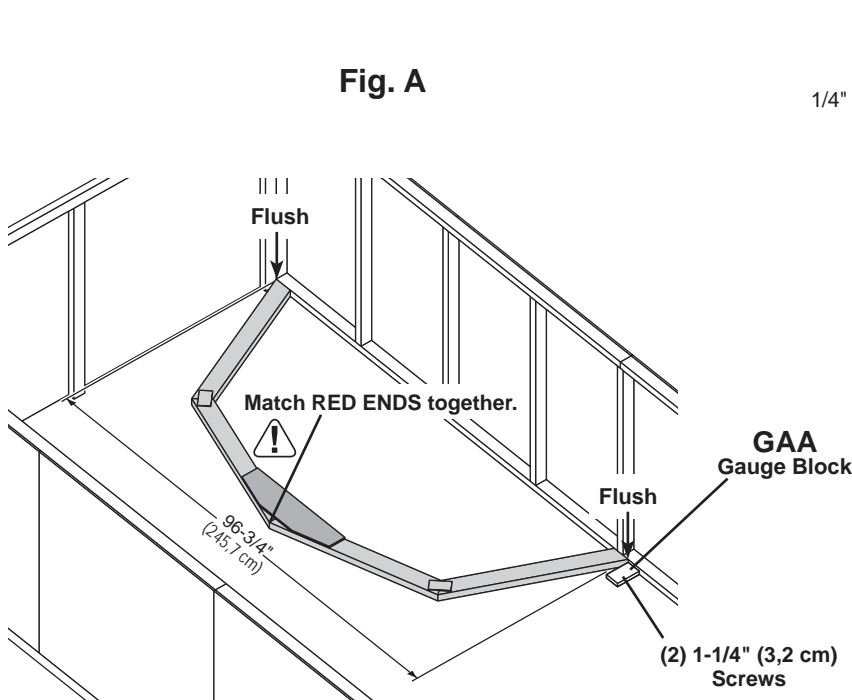
🏁**FINISH**

You have finished building your trusses.

26

RAFTERS

PARTS REQUIRED:

x2 **TRUSS ASSEMBLY WITH 1 GUSSET**

x5 **TRUSS ASSEMBLY WITH 2 GUSSETS**

x24 3" (7,6 cm)
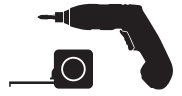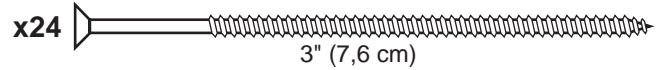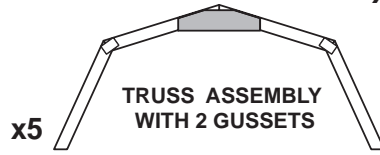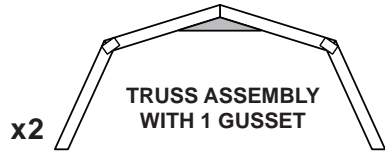
✓**BEGIN**

1 Mark top plates to measurements shown. Place *two-gusset* rafters over studs and flush to the inside of front and back wall panels **(Fig. A, Fig. B)**.
Secure rafters with (2) 3" screws at rafter end.

2 Place *one-gusset* rafters flush to the inside of front and back wall panels and flush to side wall panels **(Fig. B)**.
Secure with (1) 3" screw at truss end **(Fig. A, Fig B)**.

Repeat steps for the opposite side of shed.

| 24" (61 cm) | 24" (61 cm) | 24" (61 cm) | 24" (61 cm) | 24" (61 cm) | 24" (61 cm) |

Measure to outside of rafter.

Measure to outside of rafter.

Fig. A

ONLY 1 SCREW HERE ⚠

Align over studs.

ONLY 1 SCREW HERE ⚠

3" (7,6 cm Screws angled to hit top plate

BACK OF SHED

Install trusses flush with outside of panel.

DOOR

Fig. B
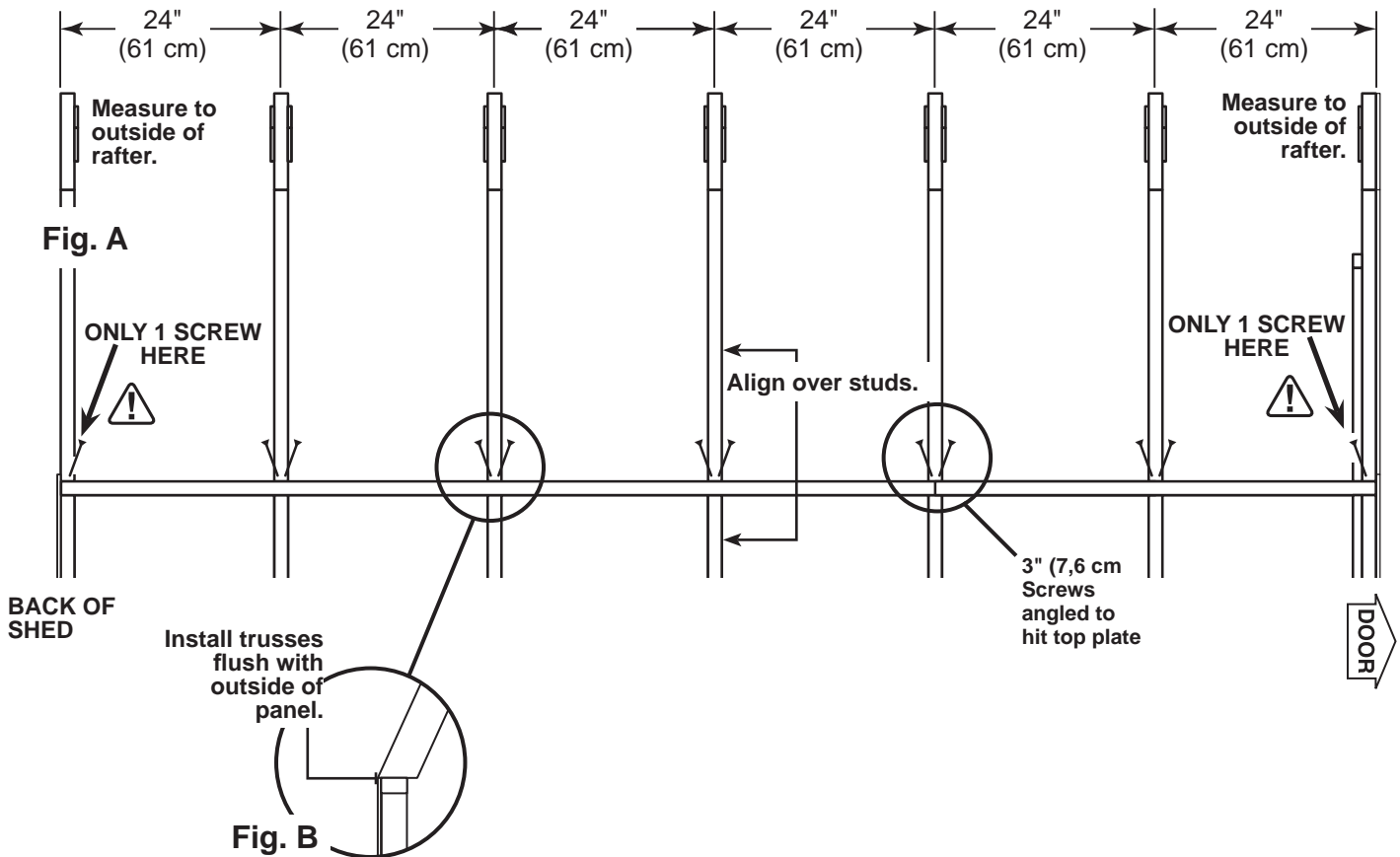
🏁**FINISH**

You have finished installing your rafters.

BACK GABLE UNIT and FRONT UPPER WALL

PARTS REQUIRED: x74 ┣━━━━━━━━━━▶   x2 ⊐▬▬▬▬▬▬▬▬▬▬▬▬▶
1-1/2" (3,8 cm)   3" (7,6 cm)
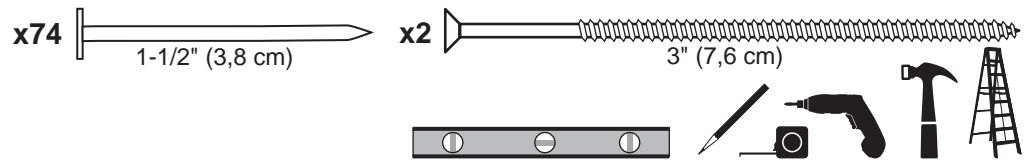
✓**BEGIN**

1 Center back gable unit on top of Z-Channel.
Hold gable unit secure with (1) 2" nail on each side.

⚠ **ENSURE GABLE IS CENTERED ON WALL BEFORE NAILING.**

2 Continue nailing lower edge of panels into top plate with 2" nails spaced 6" apart.

NAIL FIRST
2" (5,1 cm)

TOP PLATE

BSN

Fig. A

3" (7,6 cm)
Screws

6"
(15,2 cm)

NAIL FIRST
2" (5,1 cm)
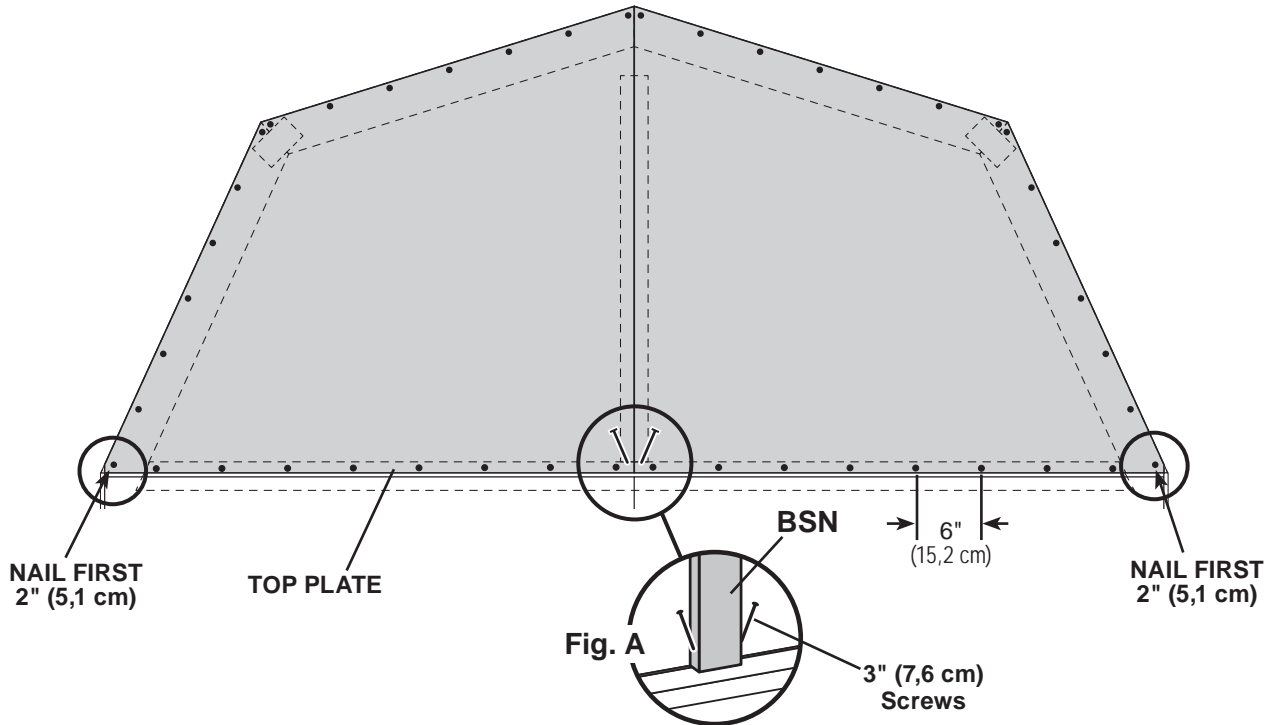
3 Working inside, secure gable unit with (2) 3" screws screwed into **BSN** at an angle **(Fig. A)**.
Continue securing panels to rafter with 2" nails spaced 6" apart.

4 Secure front wall gable panels to front rafter with 2" nails spaced 6" apart..

6"
(15,2 cm)
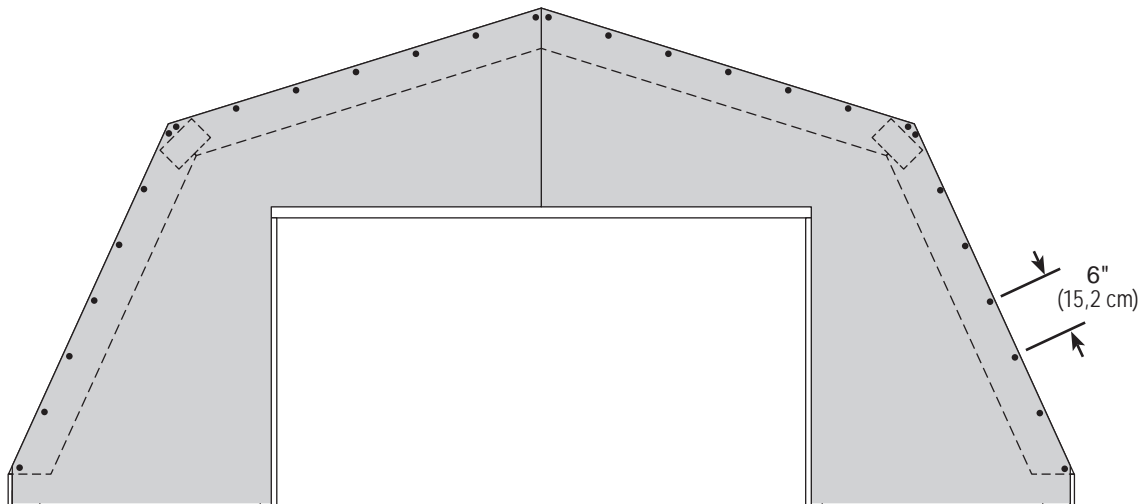
🏁**FINISH**

Your back gable unit has been installed and the front wall is secured to the front rafter.

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ROOF PANELS

PARTS REQUIRED:

x4 ⟨nail⟩ 2" (5,1 cm)

x1 ⟨panel⟩ 7/16 x 23-7/8 x 96"
(1,1 x 30,2 x 243,8 cm)

x1 ⟨panel⟩ 7/16 x 23-7/8 x 48"
(1,1 x 30,2 x 121,9 cm)

GAA 3/4" GAUGE BLOCK
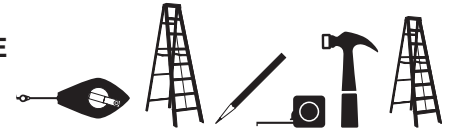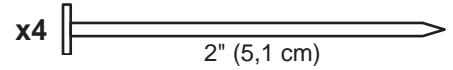
Install roof panels with the rough side facing up (painted grid lines).

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

1 Measure down from corner of front and back rafters to 23-7/8" **(Fig A)**. Snap a chalk line across rafters.

2 Install (1) **23-7/8" x 96"** panel flush along the chalk line **(Fig A)**.
Panel should be flush to the outside edge of the front rafter **(Fig. C)**.
On the 5th rafter use the 3/4" gauge block **GAA** to center the panel over the rafter **(Fig. B)**.
Secure panel with (2) 2" nails in the corners as shown.

Fig. A

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

Chalk Line

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

NOTE:
To help locate panel flush to chalk line, install (2) partly driven nails in two rafters, on the chalk line.

3/4"
(1,9 cm)

Fig. B

Gauge Block

23-7/8" x 96"

Two Nails

DOOR

Fig. C

Rafter Edge

Flush

Panel 3/8"
(1 cm)
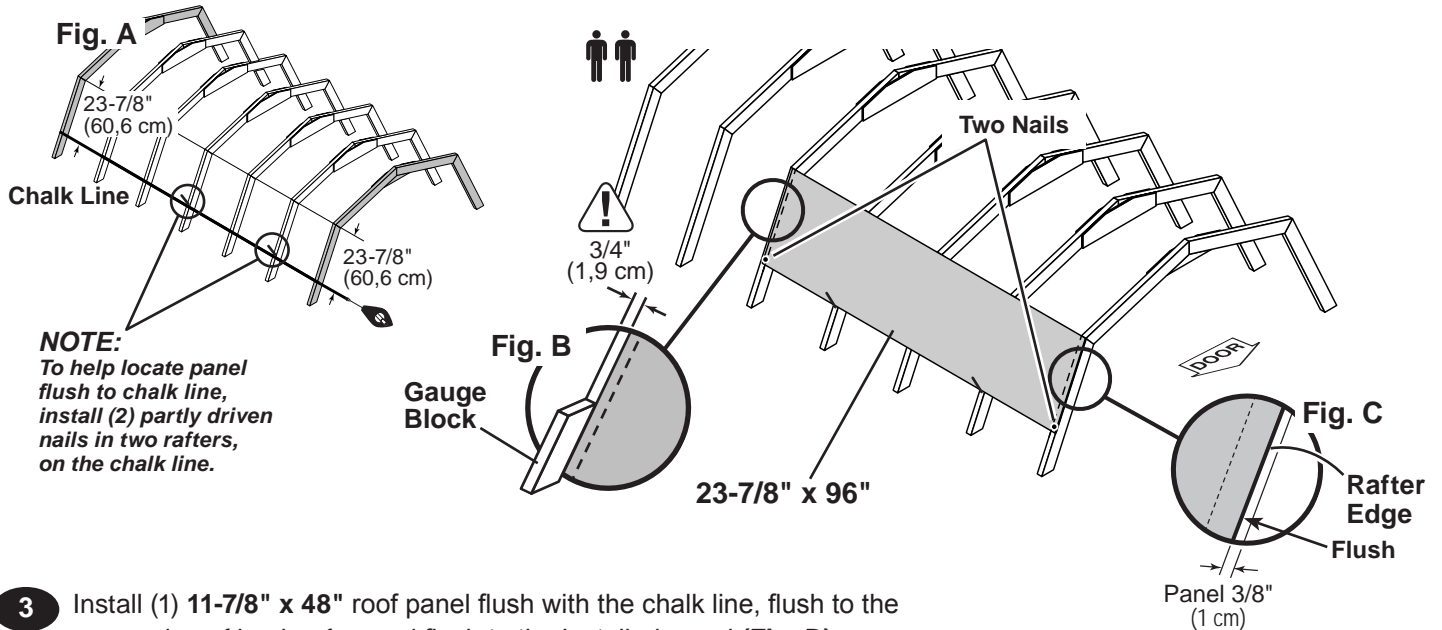
3 Install (1) **11-7/8" x 48"** roof panel flush with the chalk line, flush to the outer edge of back rafter and flush to the installed panel **(Fig. D)**.

Secure panel with (2) 2" nails in the corners.

Panel 3/8"
(1 cm)

Rafter Edge

Fig. D

Two Nails

23-7/8" x 48"

Flush

Flush

DOOR

ROOF PANELS

PARTS REQUIRED:

x8 ▭▭▭▭▭▭▭▭▭▭ ➤
2" (5,1 cm)

x1 [panel]
7/16 x 35-3/8 x 96"
(1,1 x 89,9 x 243,8 cm)

GAA
3/4" GAUGE BLOCK
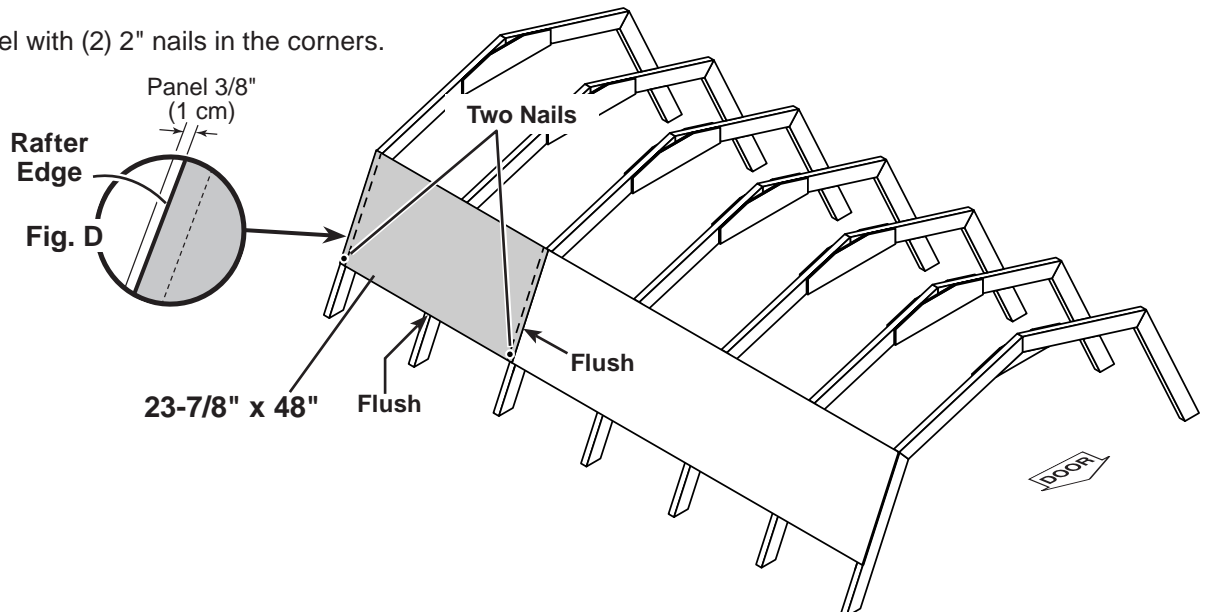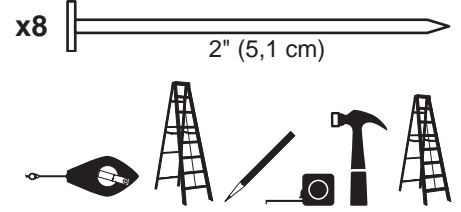
4 Maintain spacing between the centers of the rafters by secureing panels with (1) 2" nail into each rafter. Secure with (2) nails at seam.

24-3/8" (61,9) cm)   24" (61 cm)   24" (61 cm)   24" (61 cm)   24" (61 cm)   24-3/8" (61,9) cm)

From outside of panel edge.

From outside of panel edge.

DOOR

2" (5,1 cm) **Nails**
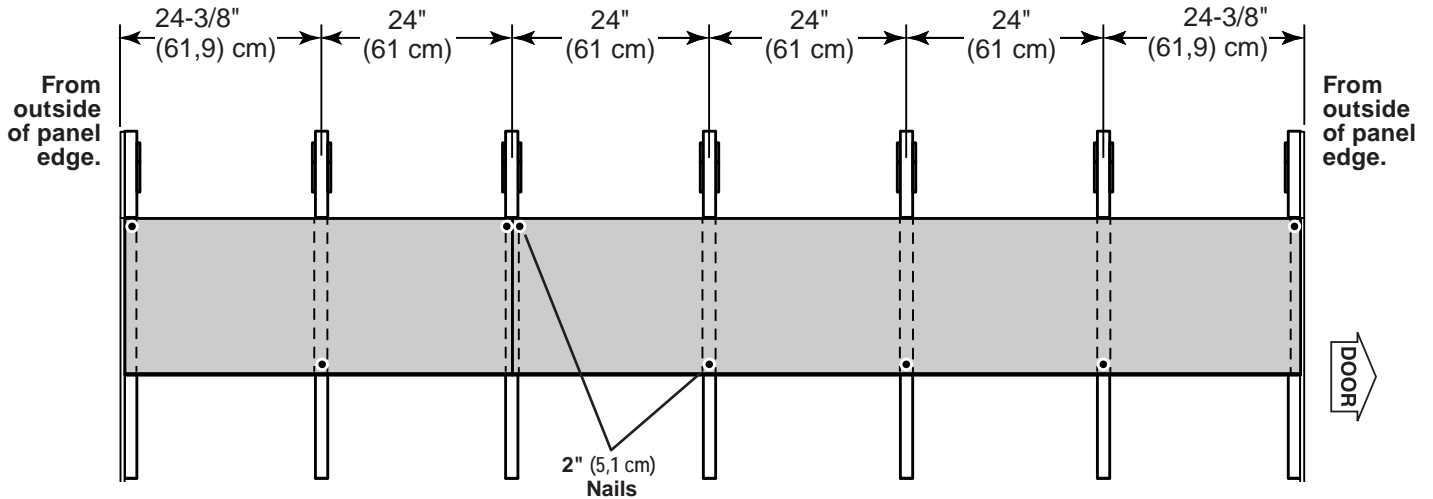
5 Install (1) **35-3/8" x 96"** roof panel flush with the outer edge of back rafter **(Fig. D)** and flush to top of lower panels. Use the 3/4" gauge block **GAA** to maintain the 3/4" measurement on the rafter **(Fig B)**.
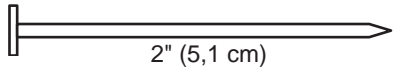
Secure panel with (2) 2" nails in the bottom corners.

Panel 3/8" (1 cm)

Fig. D

Rafter Edge

3/4" (1,9 cm)

Fig. B

Gauge Block

35-3/8" x 96"

Flush

Two Nails

DOOR

PARTS REQUIRED:

x10 |────────────────────────➤
2" (5,1 cm)
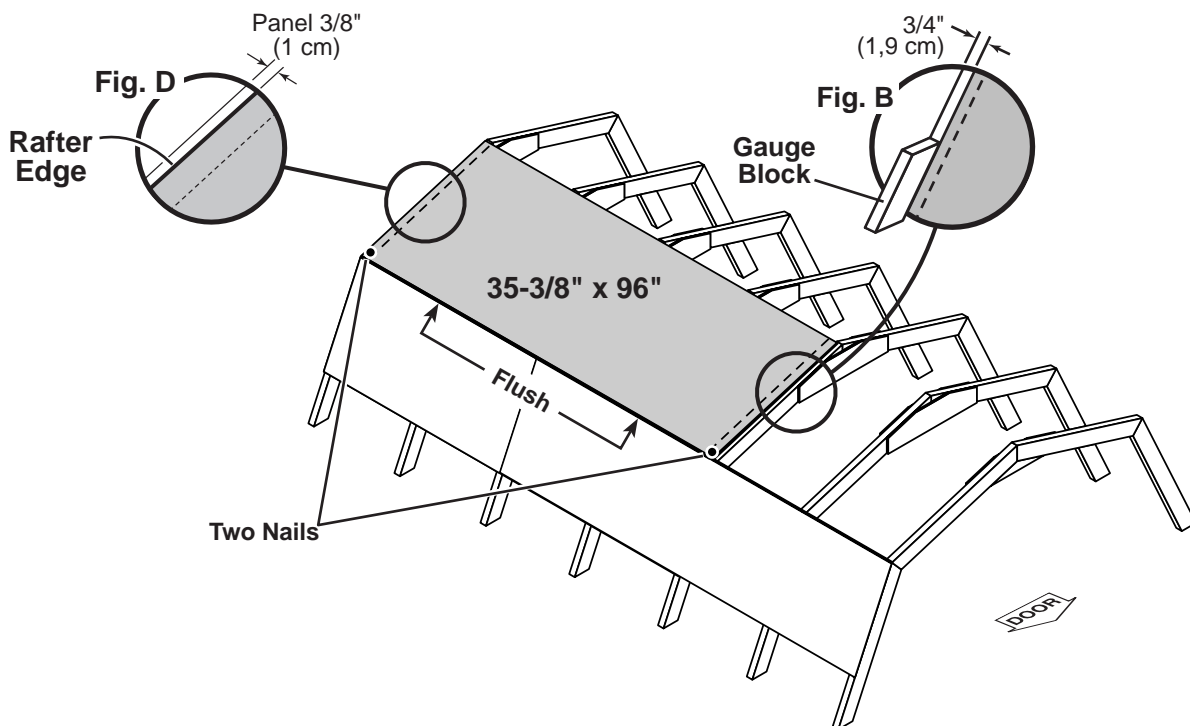
x1 [ ] 7/16 x 35-3/8 x 48"
(1,1 x 89,9 x 121,9 cm)

6 Install **48" x 35-3/8"** roof panel flush with the outer edge of front rafter **(Fig. C)** and flush to the installed panels.
Secure panel with (2) 2" nails in the bottom corners.

Flush

35-3/8" x 48"

Flush

Fig. C

Rafter Edge

Panel 3/8"
(1 cm)

Flush

DOOR

Two Nails
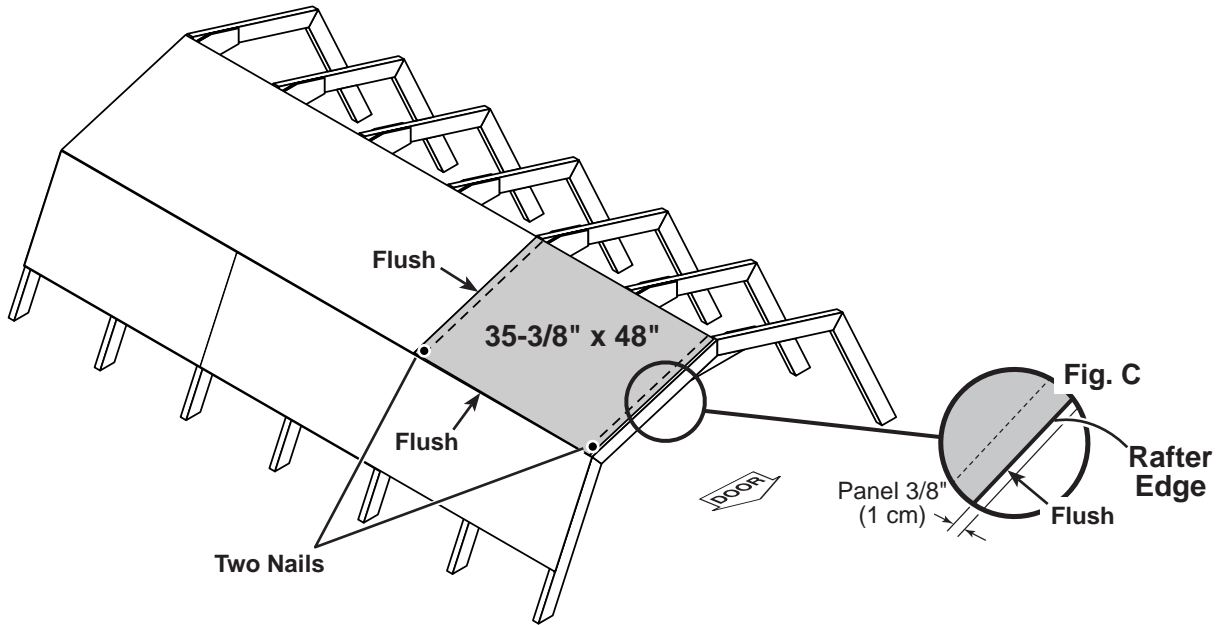
7 Maintain the spacing between the center of the rafters at the upper edge of the panels.
Ensure panels are flush to outer rafter edges.

Secure panels with (1) 2" nail into each truss. Secure with (2) nails at seam.

| 24-3/8"
(61,9) cm) | 24"
(61 cm) | 24"
(61 cm) | 24"
(61 cm) | 24"
(61 cm) | 24-3/8"
(61,9) cm) |

From outside of panel edge

From outside of panel edge

2" (5,1 cm) Nails

DOOR

31

ROOF PANELS

PARTS REQUIRED:

x1 7/16 x 11-7/8 x 96"
(1,1 x 30,2 x 243,8 cm)

x1 7/16 x 11-7/8 x 48"
(1,1 x 30,2 x 121,9 cm)

GAA
3/4" GAUGE BLOCK

x4 2" (5,1 cm)
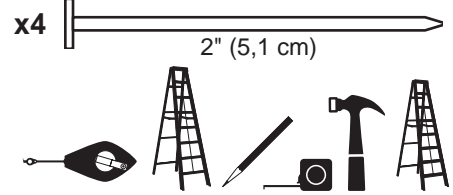
8 Install (1) **11-7/8" x 96"** roof panel flush with the outer edge of back rafter **(Fig D)**
and flush to the top of installed panels. ***Lower edge of panel will overhang (Fig. E).***
Use the 3/4" gauge block **GAA** to center panel with a 3/4" measurement on the rafter.

Secure panel with (2) 2" nails in the bottom corners.
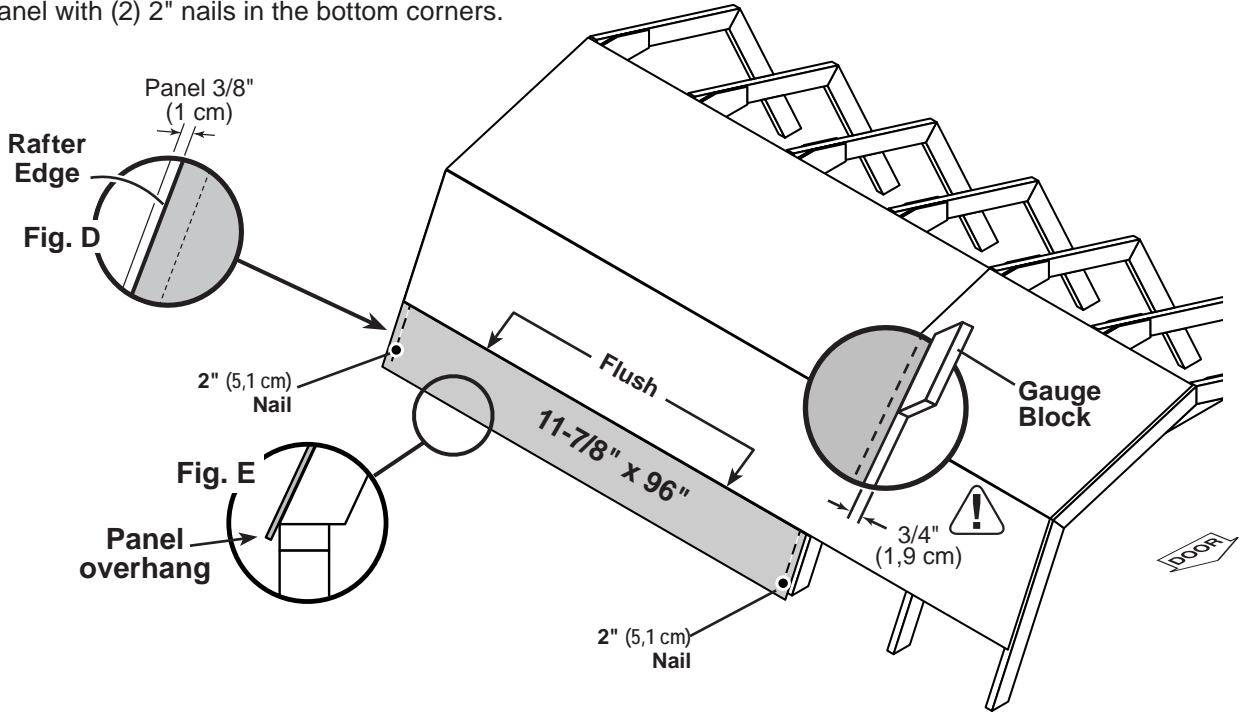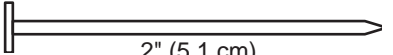
Panel 3/8"
(1 cm)

Rafter Edge

Fig. D

2" (5,1 cm) **Nail**

Fig. E

Panel overhang

Flush

11-7/8" x 96"

Gauge Block

3/4"
(1,9 cm)

DOOR

2" (5,1 cm) **Nail**

9 Install (1) **11-7/8" x 48"** roof panel flush with the outer edge of front rafter **(Fig C)**
and flush to the installed panels.
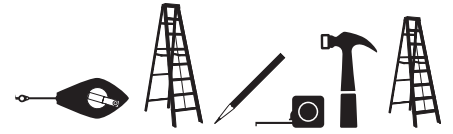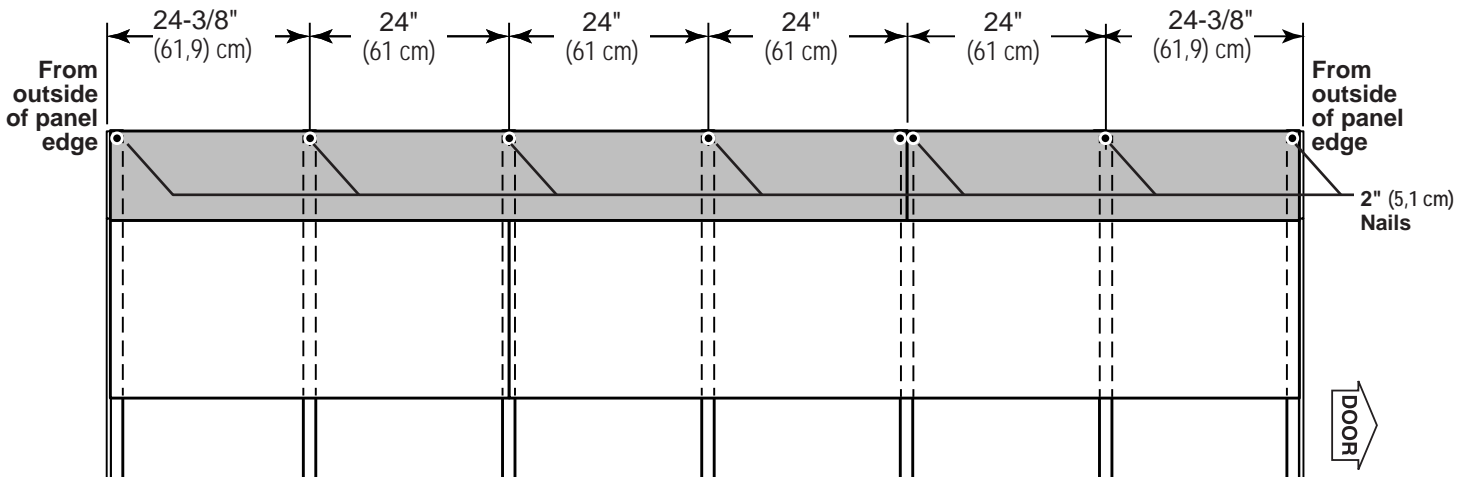
Secure panel with (2) 2" nails in the bottom corners.

11-7/8" x 48"

Flush

Flush

Fig. C

Rafter Edge

Flush

Panel 3/8"
(1 cm)

Two Nails
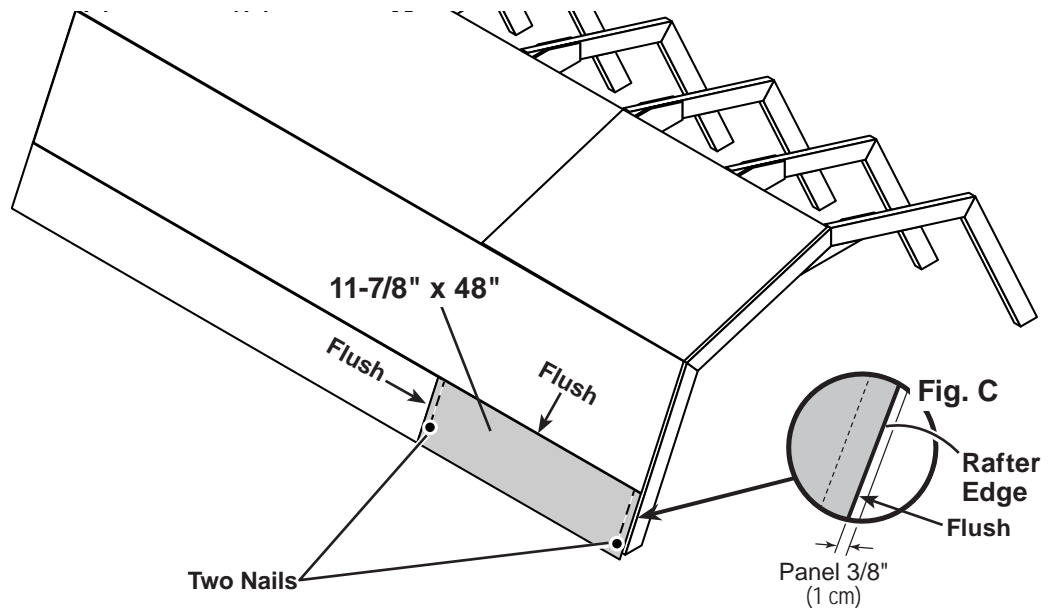
ROOF PANELS

PARTS REQUIRED:

x144

2" (5,1 cm)
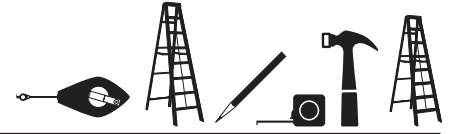
10 Secure all roof panels with 2" nails spaced 6" apart on edges and 12" apart inside panel.

6"
(15,2) cm)

12"
(30,5) cm)
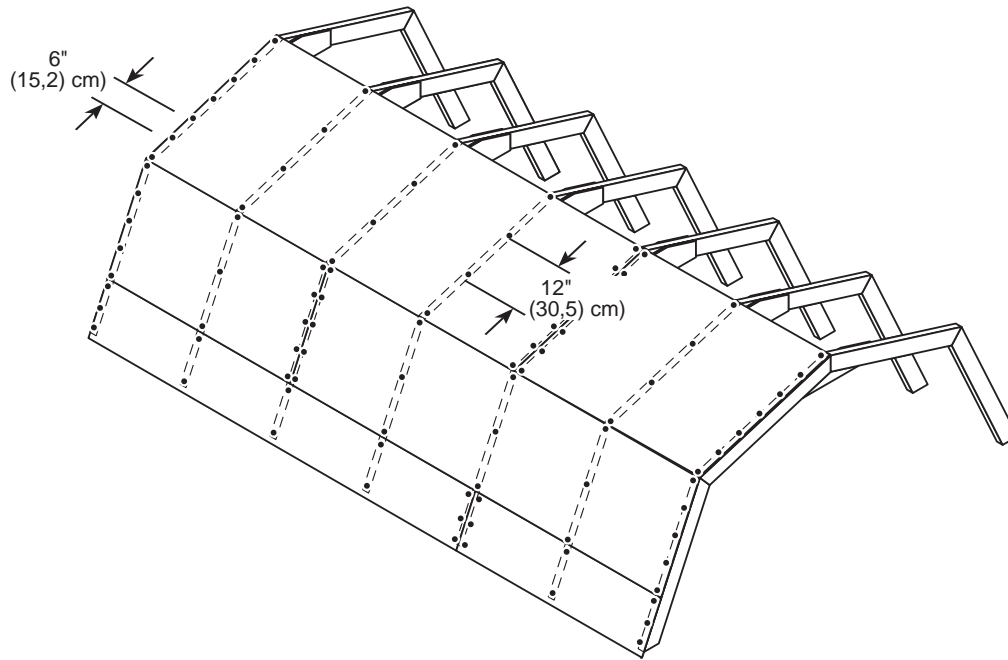
Repeat steps to install roof panels on the opposite side.

🏁 **FINISH**
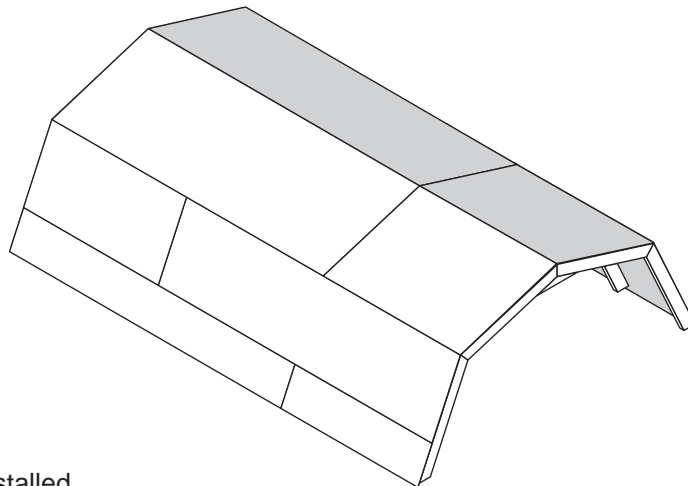
Your roof panels are now installed.

GABLE TRIM

PARTS REQUIRED:

x40 ⬜═══════════⟩
2" (5,1 cm)

x2	ZHR	2 x 4 x 35-3/4" (2,5 x 10,26 x 90,8 cm)
x2	ZHL	2 x 4 x 35-3/4" (2,5 x 10,26 x 90,8 cm)
x2	DBR	2 x 4 x 36-3/4" (2,5 x 10,26 x 93,3 cm)
x2	DBL	2 x 4 x 36-3/4" (2,5 x 10,26 x 93,3 cm)
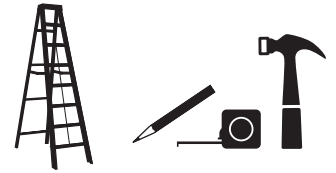
✓**BEGIN**

1 Position upper trim **WHX** as shown. Match black ends at peak.
Ensure top of **WHX** are flush to top of OSB roof panels.
Secure with 2" finishing nails spaced evenly.

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

2 Flush lower trim **DBR** with **WHX** and top of OSB roof panels. Match red ends.
Secure with 2" finishing nails spaced evenly.

Repeat steps for the opposite side of shed.

MATCH BLACK ENDS — Flush at peak.

2" (5,1 cm) Finishing Nails

ZHL — Flush with top of OSB roof panels

MATCH GREEN ENDS

MATCH RED ENDS

Flush at seam

Flush at seam

DBL

DBR

Flush

SPACED EVENLY

ZHR
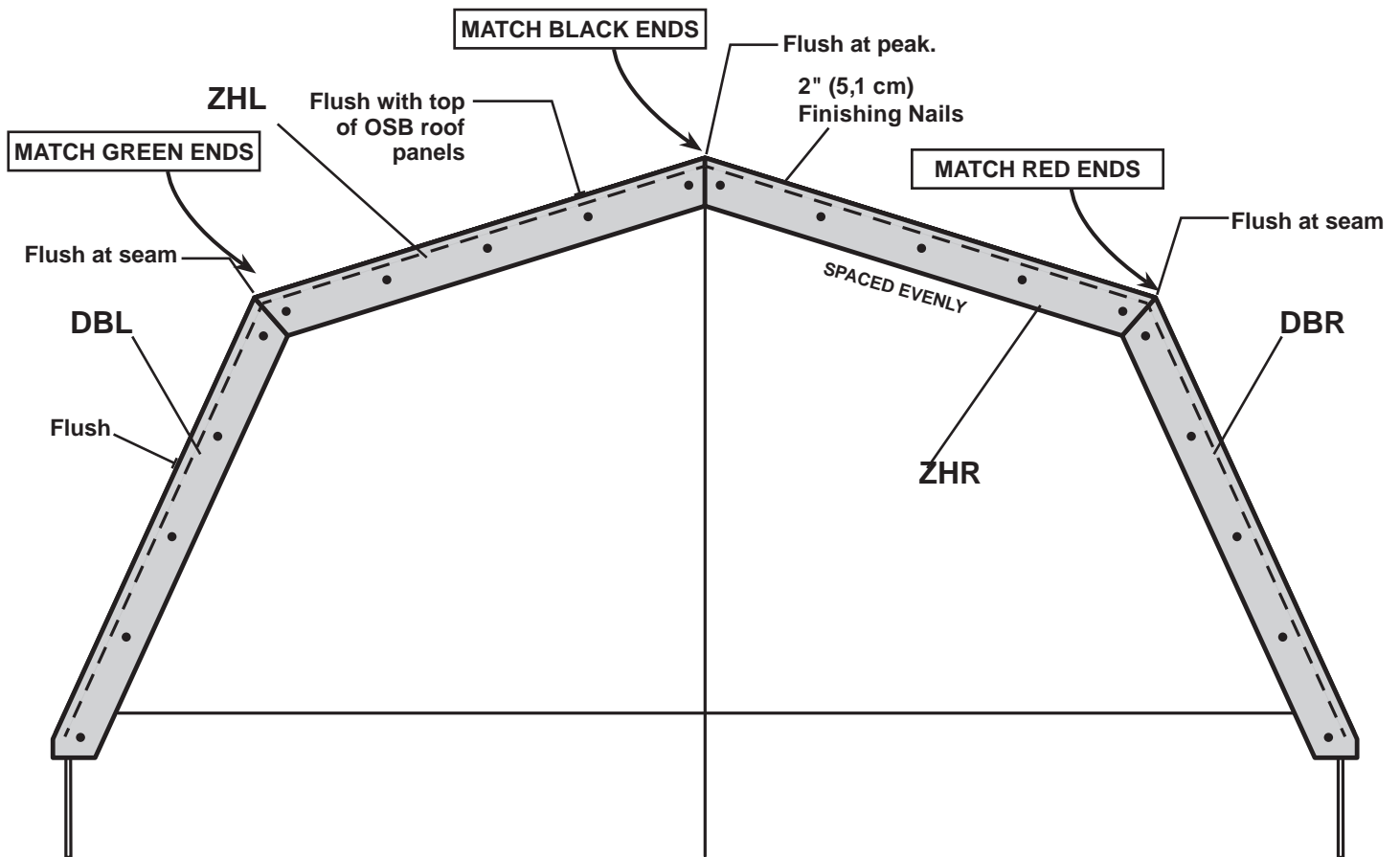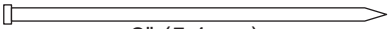
🏁**FINISH**
Your gable trim is now installed.

34

SIDE TRIM

PARTS REQUIRED:

x84 ⬜——————————
2" (5,1 cm)

x4 ⬜————————————⬜
3/8 x 1-3/4 x 45-3/8" (1,0 x 7,6 x 115,3 cm)

x4 ⬜————————————⬜
3/8 x 1-3/4 x 72-3/8" (1,0 x 7,6 x 183,8 cm)

✓**BEGIN**

1 Locate (2) 1-3/4" x 72-3/8" horizontal trim at the top of side wall. Push trim up flush to overhang of roof panels. Secure with 2" finishing nails 6" apart.

2 Install (2) 1-3/4" x 45-3/8" vertical corner trim at the top of side wall, and flush with outside of front and back wall panels **(Fig. A)**. Secure with 2" finishing nails spaced 6" apart.

Repeat steps for the opposite side.

Side Batten

Fig. A

Front Panel

Flush

**72-3/8"
(183,8 cm)**

**72-3/8"
(183,8 cm)**

Flush

6"
(15,2) cm)

**2" (5,1 cm)
Finishing
Nails**

45-3/8"
115,3 cm)

6"
(15,2) cm)
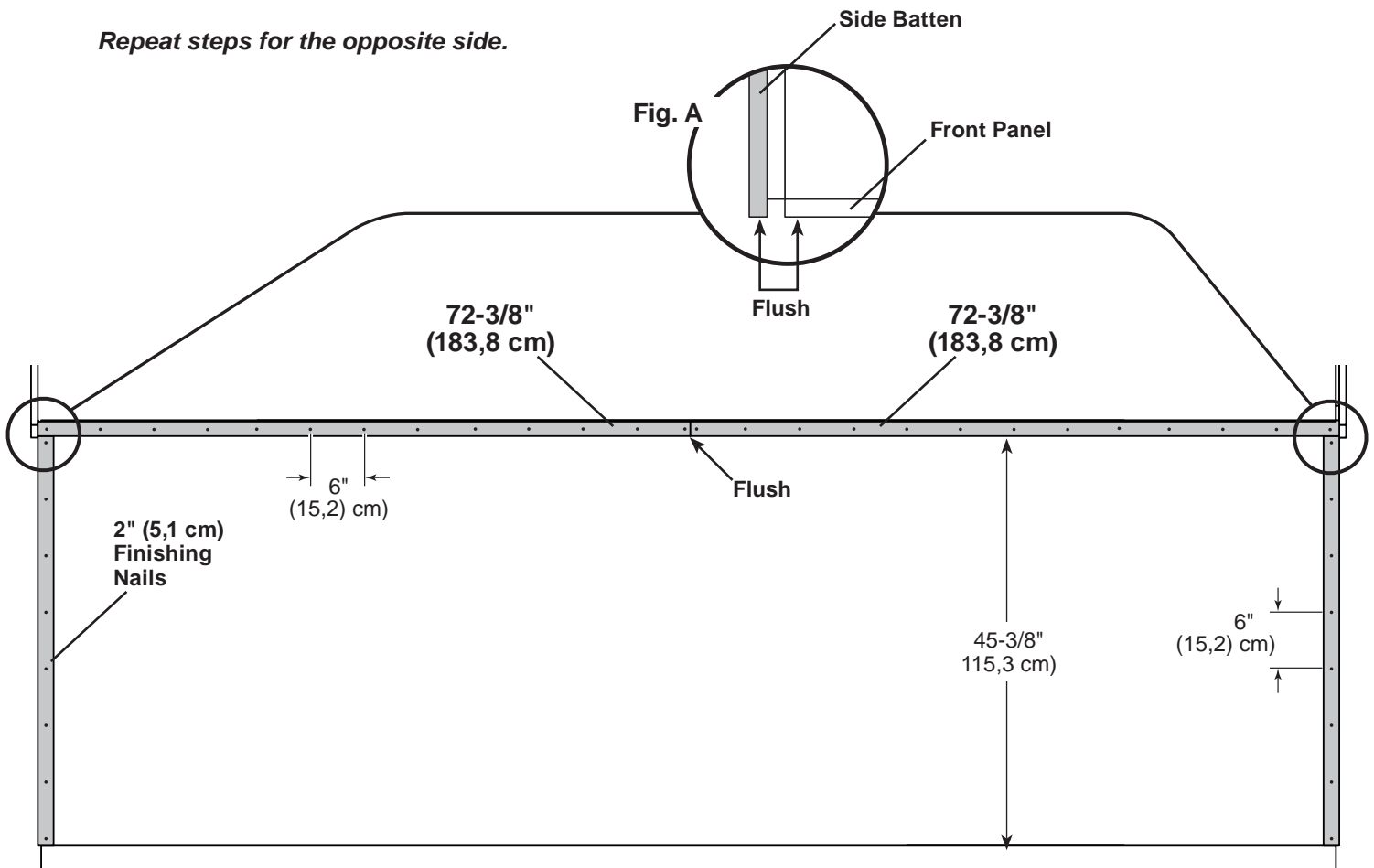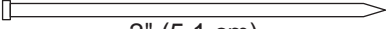
🏁**FINISH**
Your side trim is now installed.

CORNER TRIM

PARTS REQUIRED:

x32

2" (5,1 cm)

x4

3/8 x 1-3/4 x 45-3/8" (1,0 x 7,6 x 115,3 cm)
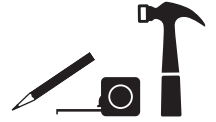
√**BEGIN**

1 Install (2) 1-3/4" x 45-3/8" vertical battens on the front of shed. Battens are flush to the outside of side wall battens **(Fig. A)** and flushed up to bottom of gable trim.

Secure with 2" finishing nails spaced 6" apart. Nail into interior framing.

Repeat steps for the opposite side.

Side
Batten

Fig. A

Interior
Framing

Flush

Flush

Flush

2" (5,1 cm)
Finishing
Nails

6"
(15,2) cm)

45-3/8"
115,3 cm)

FINISH
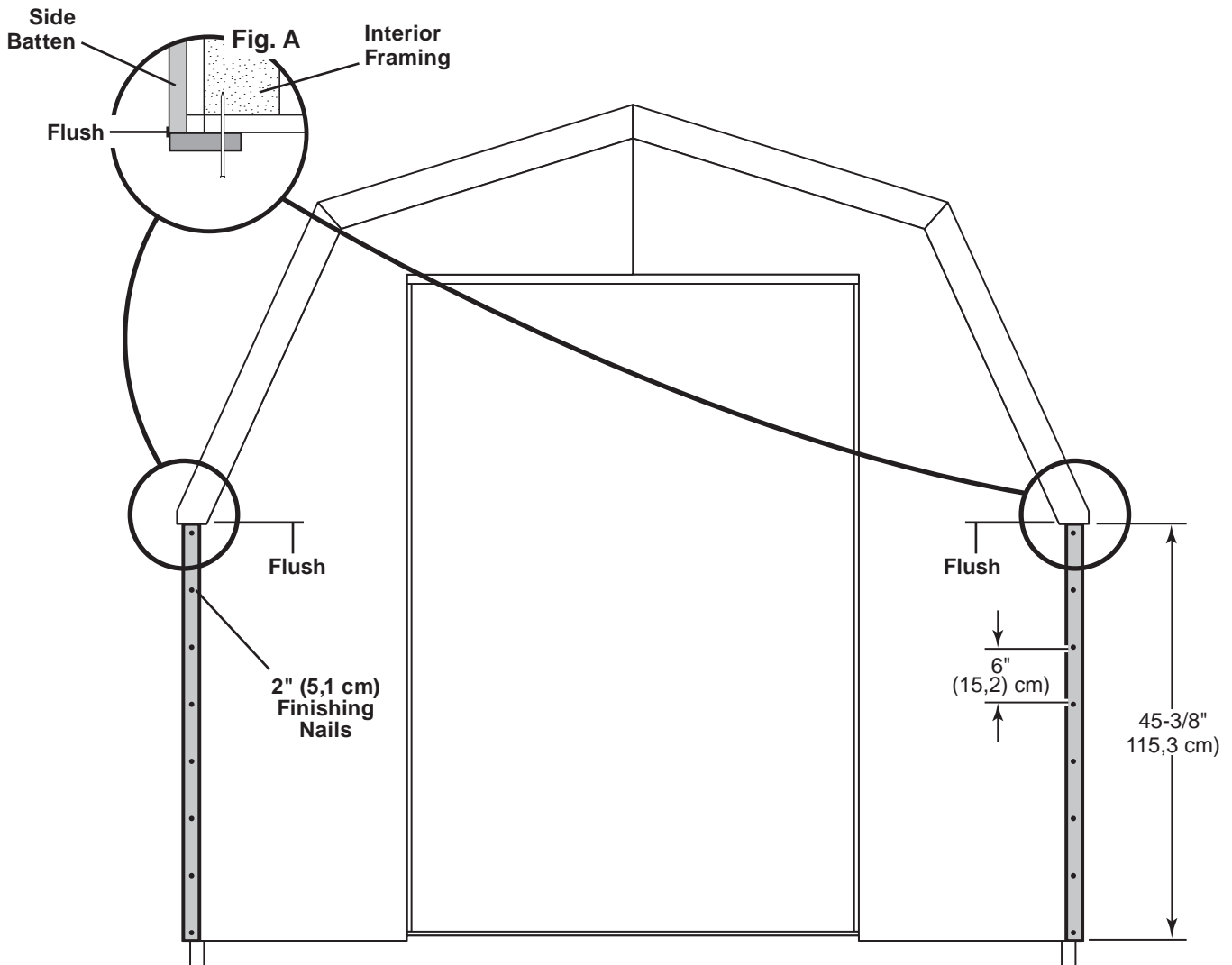
Your corner trim is now installed.

DOORS

PARTS REQUIRED:

x1 Left Door

x1 Right Door

x4 ⎯ 3" (7,6 cm)

x2 1-1/4" (3,2 cm)

x1 OO
1-1/4 x 2-1/2 x 69" (3,2 x 7,6 x 175,3 cm)
TEMPORARY SUPPORT

x1 GAA
1 x 3 x 5" (2,5 x 7,6 x 12,7 cm)
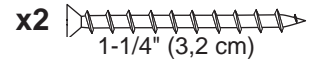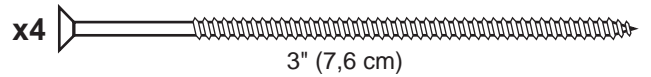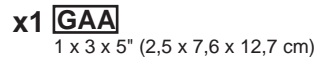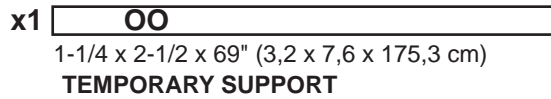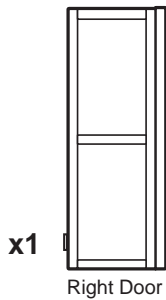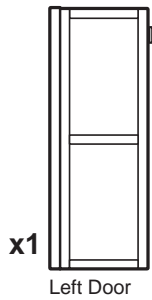
✓ **BEGIN**

1 Arrange parts as shown, on a flat surface. ⚠ **3/8" offset is to top.**
Look for red (right) and green (left) on hinge board.

2 Fasten temporary support **OO** with 3" screws in middle and at ends.

Fasten temporary support **GAA** with (2) 1-1/4" screws.

OFFSET **GREEN** **RED** **OFFSET**

3/8"
(1 cm)

3/8"
(1 cm)

⚠ 3/8"
(1 cm)

23-1/2"
(59,7 cm)

**(4) 3" (7,6 cm)
Screws**

OO

**Screws
1-1/4" (3 cm)**

GAA

23-1/2"
(59,7 cm)

3/8"
(1 cm)

37
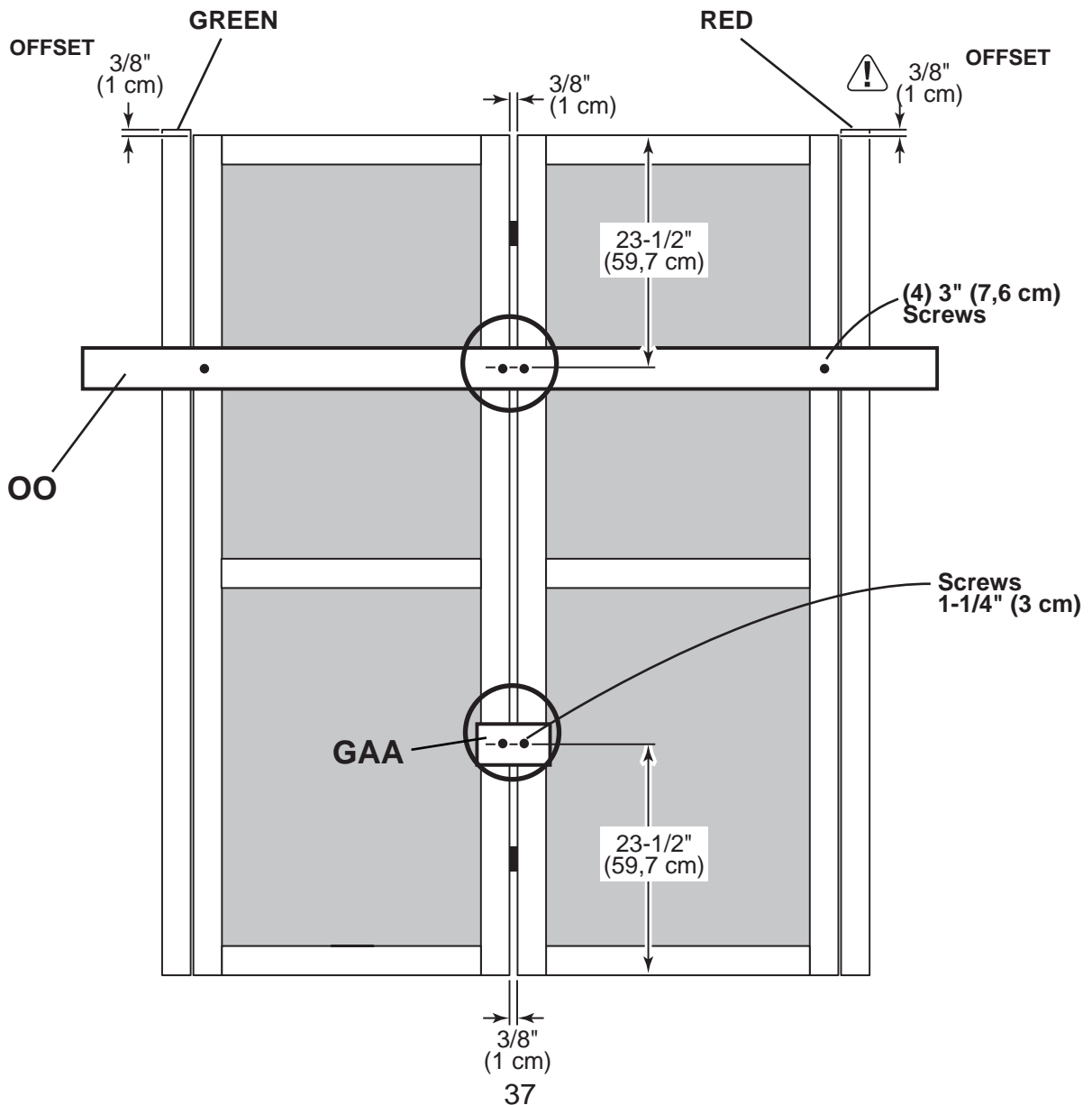
DOORS

PARTS REQUIRED:

x1 | **OO** | *Temporary Support*
69" Door Stiffener (175,3 cm)

x12 ⎶〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰➤
3" (7,6 cm)
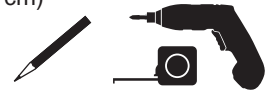
3 Install temporary support **OO** flush under wall panels for doors to rest on,
Secure with (2) 3" screws **(Fig. A)**.

Fig. A

Flush under panel

OO

OO
TEMPORARY SUPPORT
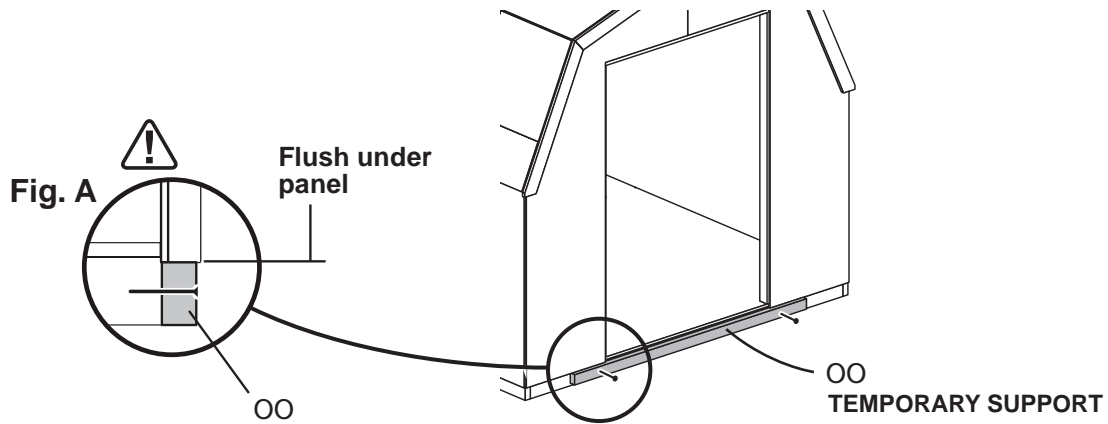
4 Center doors in door opening.
Screw hinge boards into wall studs and floor with 3" screws as shown.
⚠ **Make sure screws go into framing and floor (Fig. C, D)**.

Remove temporary supports and check that the doors open properly.

Hinge Board

Hinge Board

Hinge Board

Fig. C

**3" (7,6 cm)
Screws into the wall support and floor frame.**

Angle 3" (7,6 cm) Screw

Fig. D
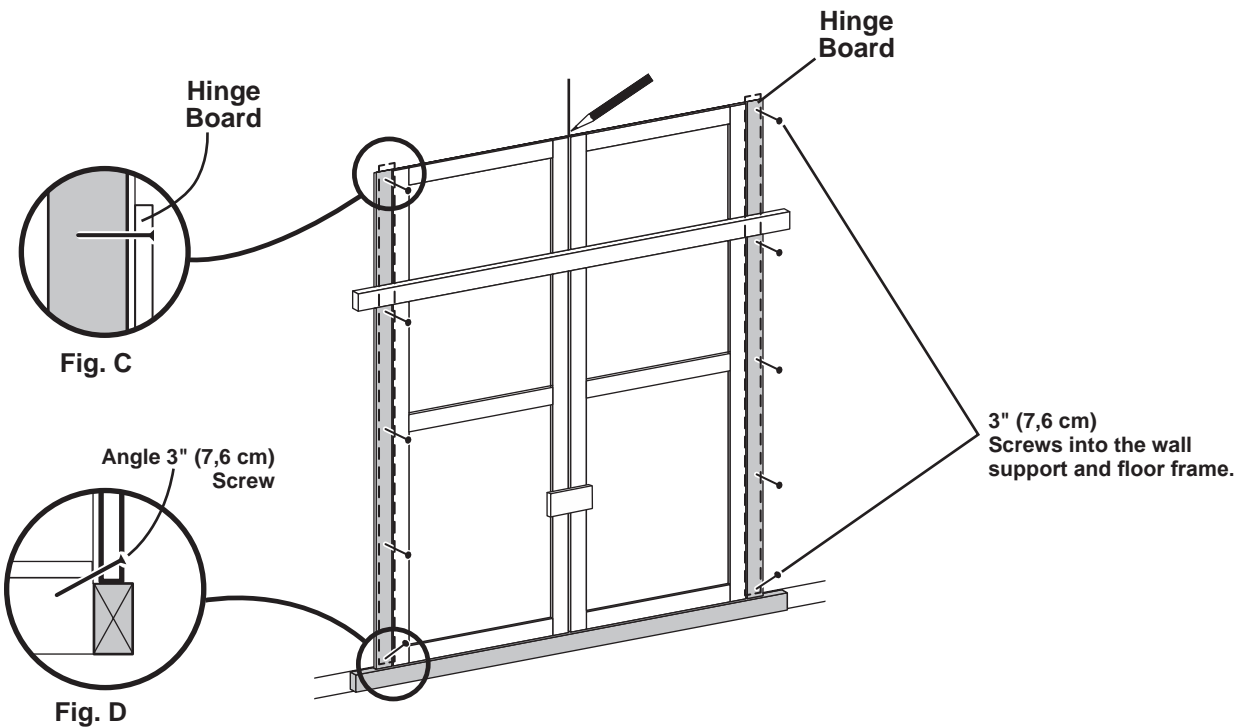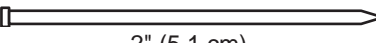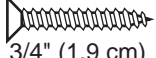
🏁**FINISH**
Your doors are now installed.

PARTS REQUIRED:

x1 | ZB
19/32 x 2-1/2 x 55" (1,5 x 6,3 x 139,7 cm)

x5 ▭━━━━━━━▶
2" (5,1 cm)

x38 ◀▨▨▨▨▨▨▨━
3/4" (1,9 cm)

✓BEGIN

1 Reinforce the door trim with 3/4" screws through door panel into trim **(Fig. A)**.
Locate screws as shown in **Fig. B**. Use two screws at seams.

2 Center trim **ZB** over doors and secure with 2" finishing nails into framing, as shown.

Door Panel

Fig. A

Hinge Board

Door Trim

2" Nails x5

Center

Nail into framing.

ZB

CENTER | **CENTER**

Fig. B

CENTER

CENTER

Two Screws
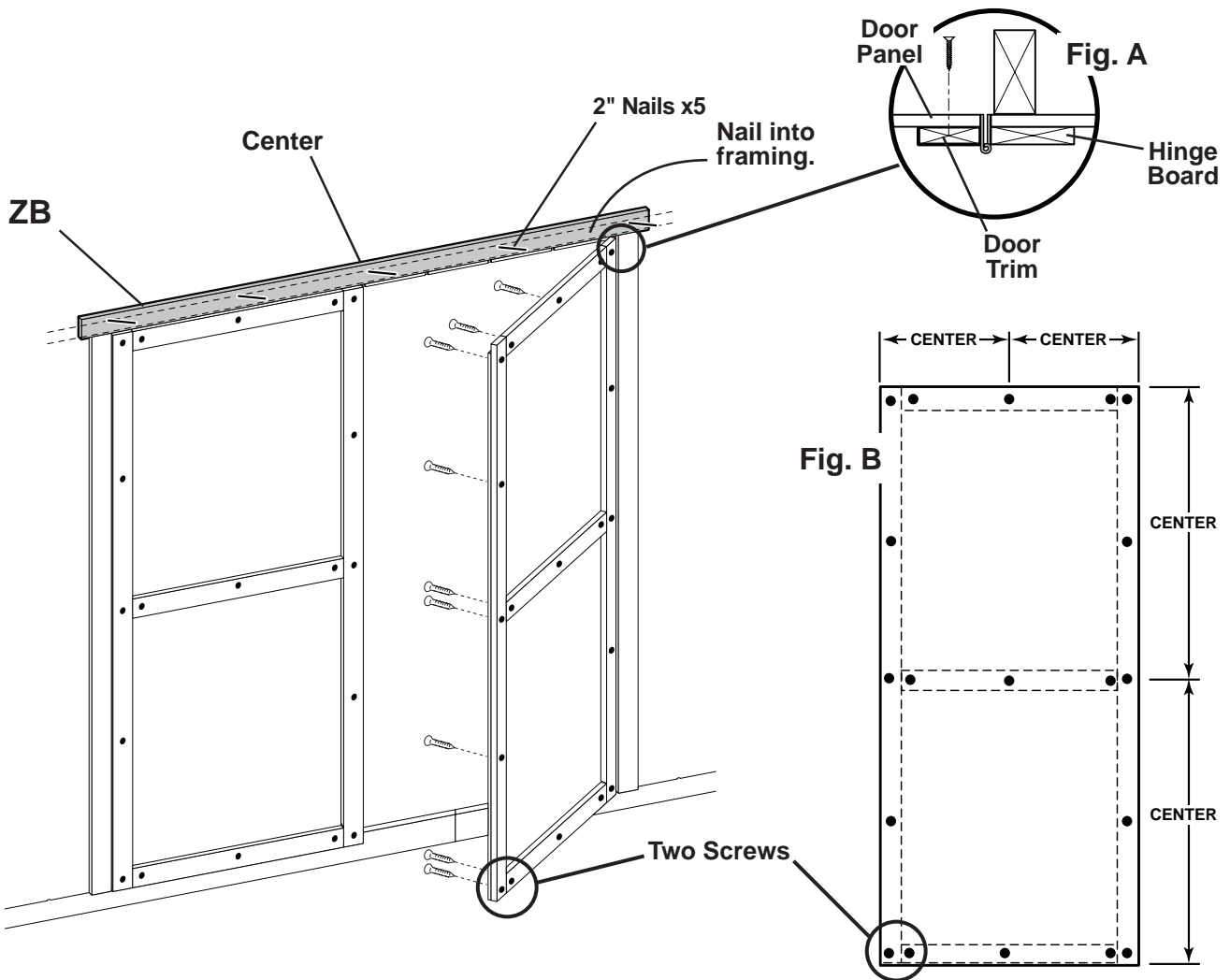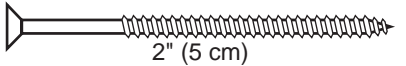
⚑FINISH
You have now installed and reinforced your door trim.

39

DOOR STIFFENERS

PARTS REQUIRED:

x2 | OO
69" Door Stiffener (175,3 cm)

x14 2" (5 cm)

✓**BEGIN**

1 With left door closed, center a door stiffener **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** with (7) 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** with (7) 2" screws through outside trim into **OO (Fig. C)**.

Fig. A

Center OO
in door
opening.

Fig. B

OO

OFFSET

1"
(2,5 cm)

1"
(2,5 cm)

OFFSET

Fig. C

2" (5,1 cm)
Screw

Screws
2" (5,1 cm)
x12

11" (28 cm)
Approximately
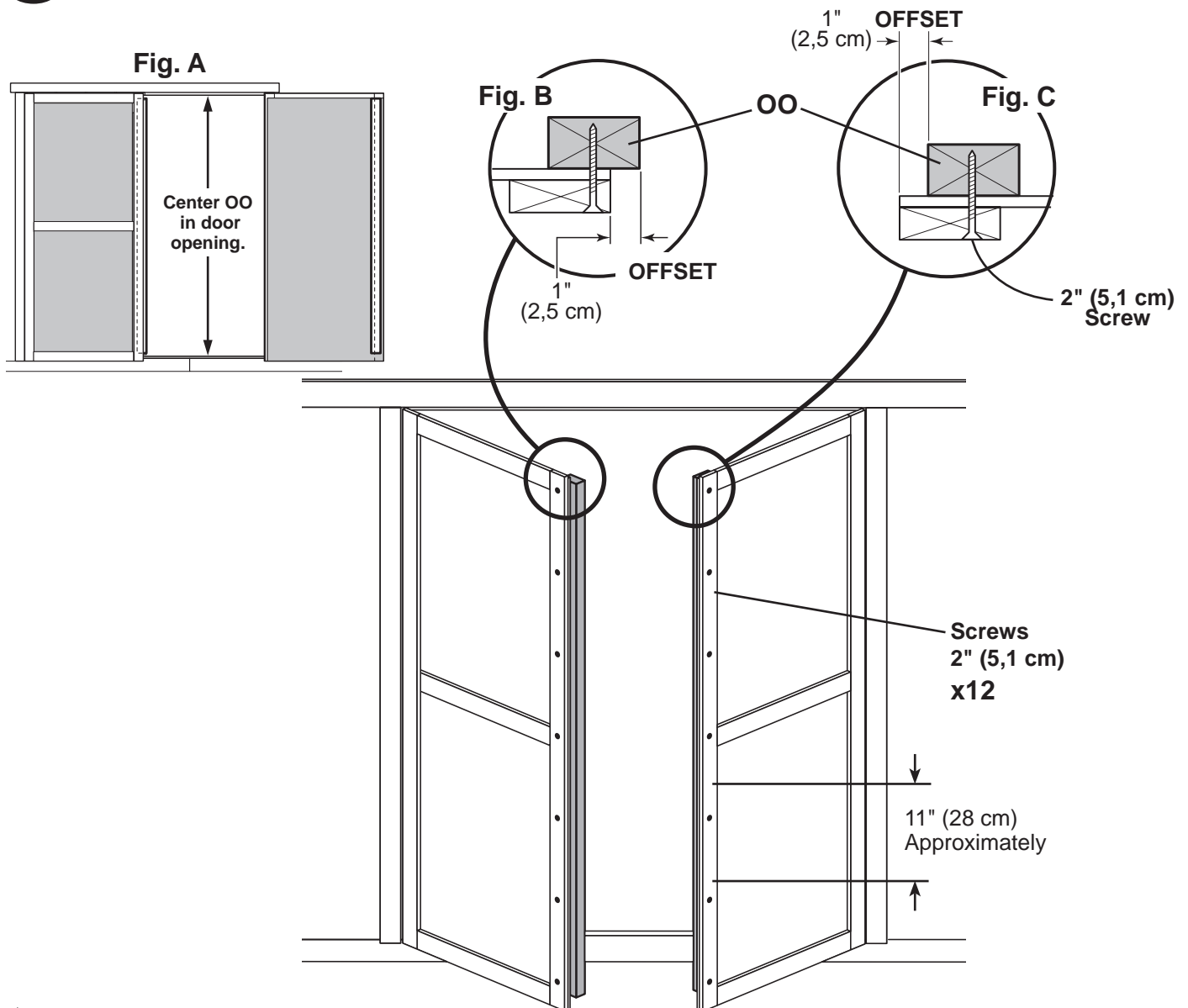
🏁**FINISH**
Your door stiffeners are now installed.

DOOR HARDWARE

PARTS REQUIRED:

x1

x2 1-1/2" (3,8 cm)

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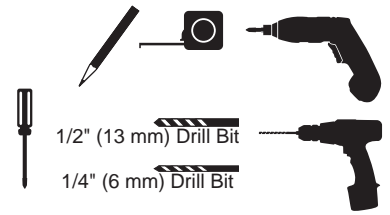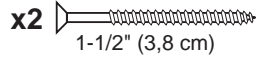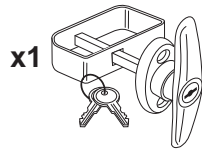
√**BEGIN**

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. A)**.

⚠ Keep drilled hole square to trim to avoid breaking edge of 1-1/4 " x 2-1/2" door stiffener.

RIGHT DOOR.

1-3/4" (4,4 cm)

Fig. A

35-3/4"
(90 cm)

1-3/4"
(4,4 cm)

**1/4" Pre-drill and
1/2" Drill-through**

Fig. C
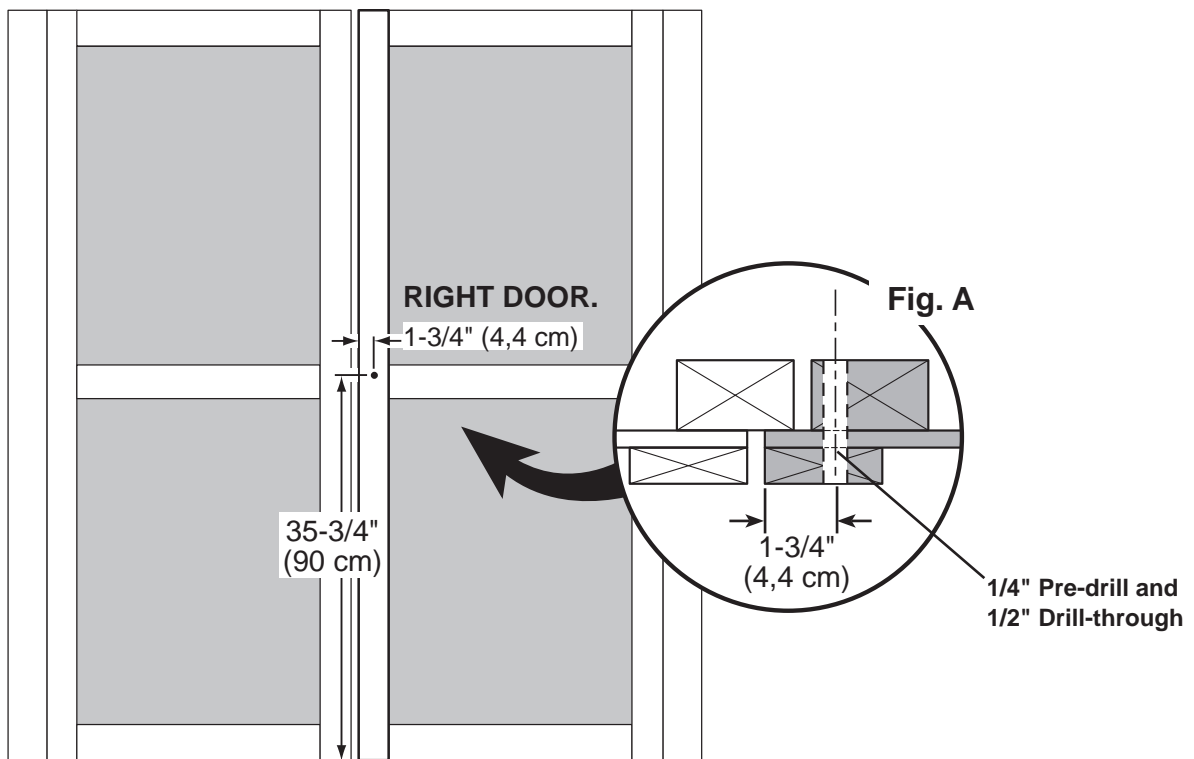
3 Insert handle in hole and secure with 1-1/2" screws.

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

**1-1/2"
(3,8 cm)
Screws**

**SET
SCREW**

🏁**FINISH**
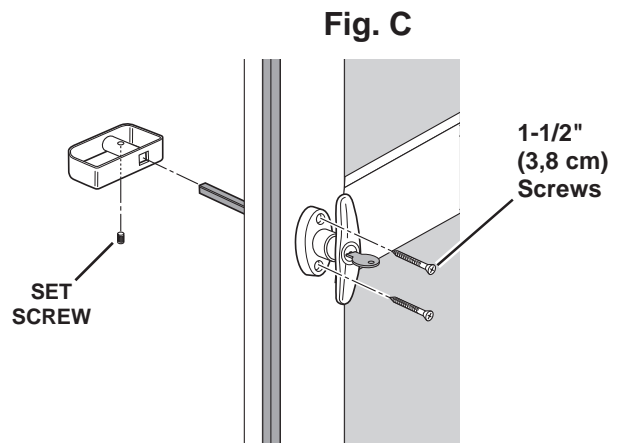
Your your door handle is now installed.

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SPRING BOLTS

PARTS REQUIRED:

x8 1" (2,5 cm)

x2
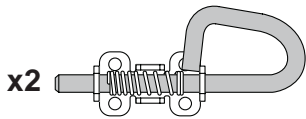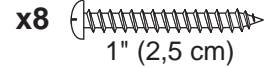
5/16" (0,8 cm) Drill Bit

✓ **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.

Fig. A

⚠ **LOCATE AND PRE-DRILL HOLES TO AVOID SPLITTING WOOD**

OVER DOOR FRAME

5/16" drill for bolt: 1" deep.

3/8" with bolt in open position.

OO
1-1/2 x 2-1/2 x 69"

x4

OPEN POSITION, Spring is loose.

PRE-DRILL (4) HOLES

Loop contacts base.

LEFT DOOR

Loop contacts base.

OO
1-1/2 x 2-1/2 x 69"

x4

OPEN POSITION, Spring is loose.

PRE-DRILL (4) HOLES

1/2"

FLOOR

5/16" drill for bolt: 1" deep.
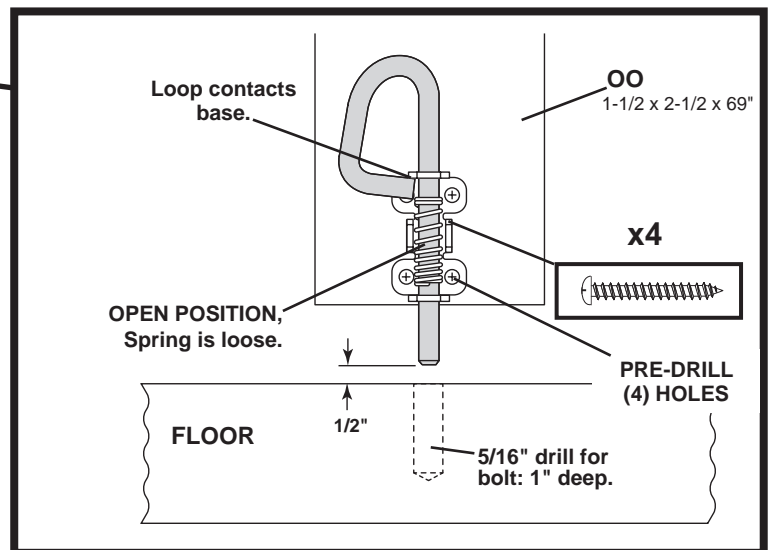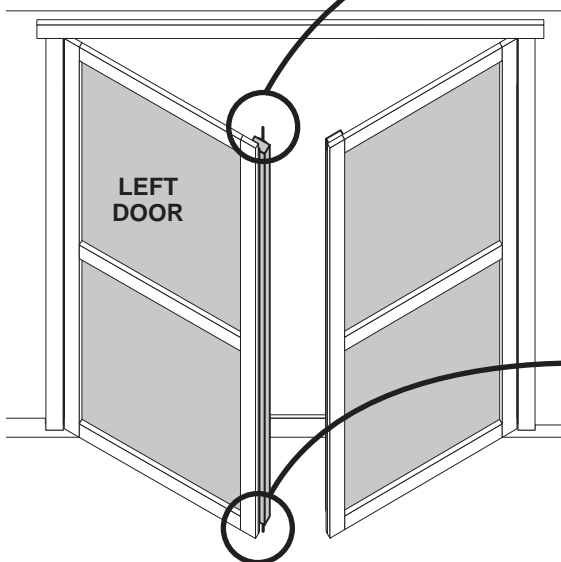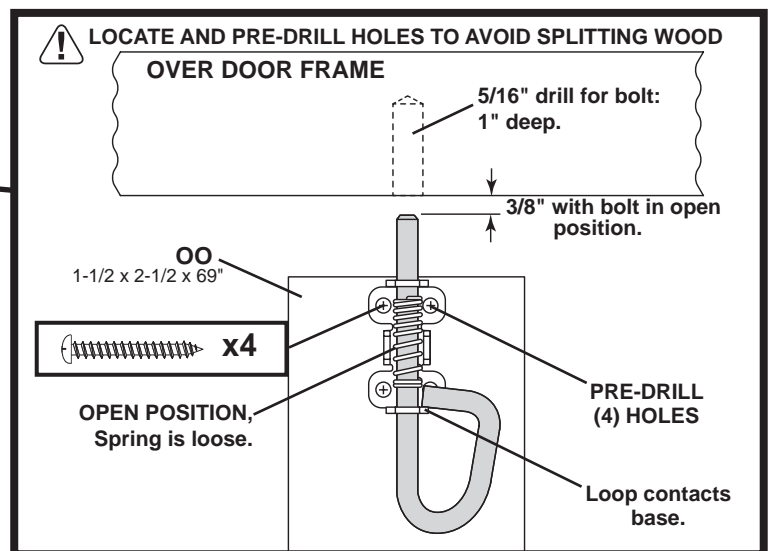
🏁 **FINISH**
Your spring-bolts are now installed.

Fig. B

VENTS

• Follow directions provided by manufacturer and these instructions.

x2 16" x 8"

x12 1/2" (13 mm)
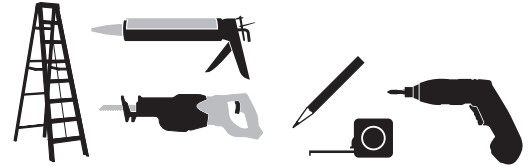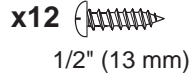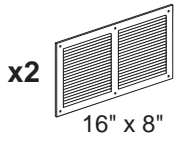
√**BEGIN**

1 Choose locations for (2) vents on opposite side walls,(1) at top and (1) at bottom.

Cut out marked openings.

Caulk behind vent flanges.

Secure with 1/2" screws.

14"
(35,6 cm)

Caulk

6"
(15,2 cm)

3"- 5"
(7,6 - 12,7 cm)

**1/2" Screws
(1,3 cm)**

Caulk

**1/2" Screws
(1,3 cm)**

7"- 8"
(17,8 - 20,3 cm)

5"
(12,7 cm)

6"
(15,2 cm)

14"
(35,6 cm)
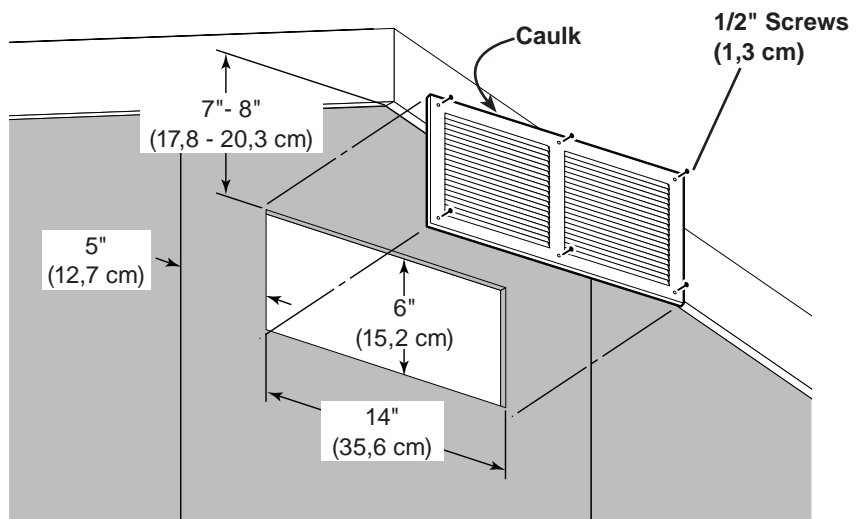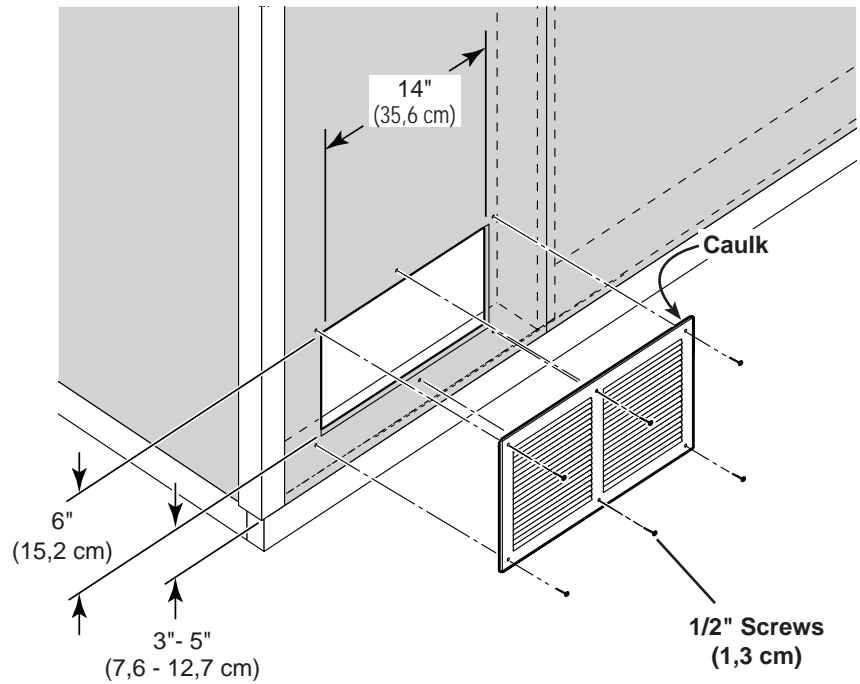
FINISH
Your vents are now installed.

PAINT & CAULK
- NOT INCLUDED -
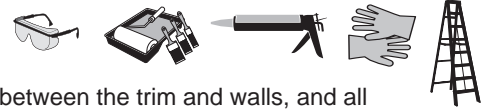
• Use acrylic latex caulk that is paintable. Caulk at all horizontal and vertical seams, between the trim and walls, and all around the door trim.

• 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.

OK to overlap at ridge.   **3" OVERLAP**   **Flush**

3" OVERLAP

Flush
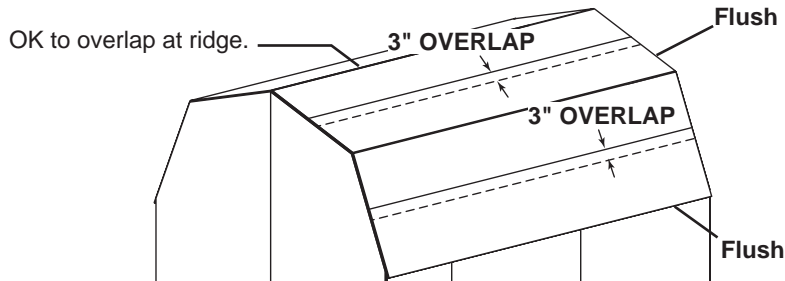
DRIP EDGE
- NOT INCLUDED -

• 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.
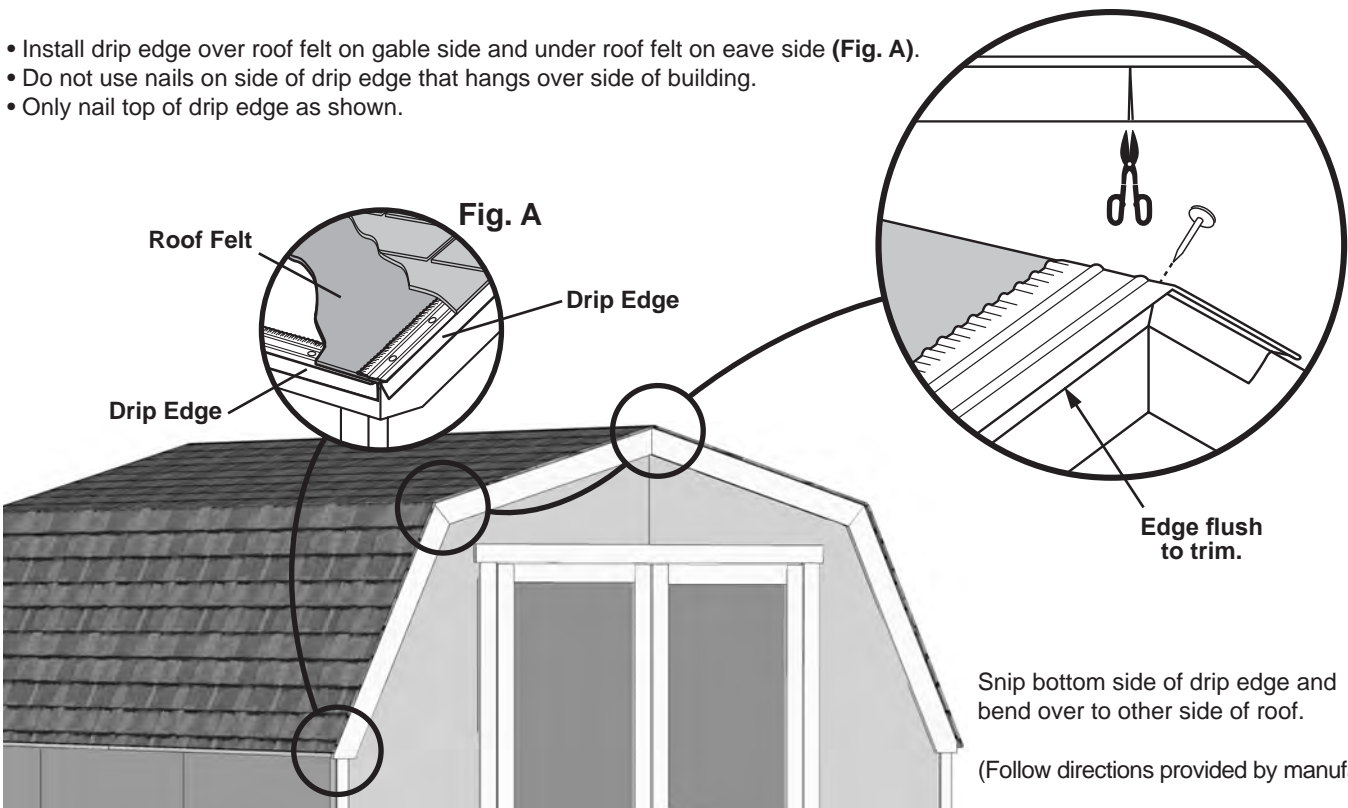
Fig. A

Roof Felt

Drip Edge

Drip Edge

**Edge flush
to trim.**

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

(Follow directions provided by manufacturer.)

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• **Follow directions provided by manufacturer and these instructions.**
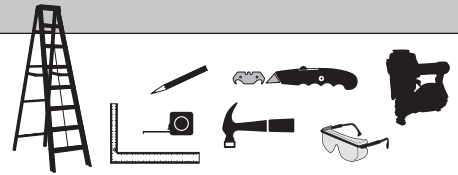
⚠ **Familiarize yourself with a 3-Tab Shingle.**

Notch   Notch

SHINGLE NAIL PATTERN

1"
(2,5 cm)   1/2"
(1,3 cm)   Sealing Strip   1"
(2,5 cm)

Half A Rain Slot

Full Rain Slot
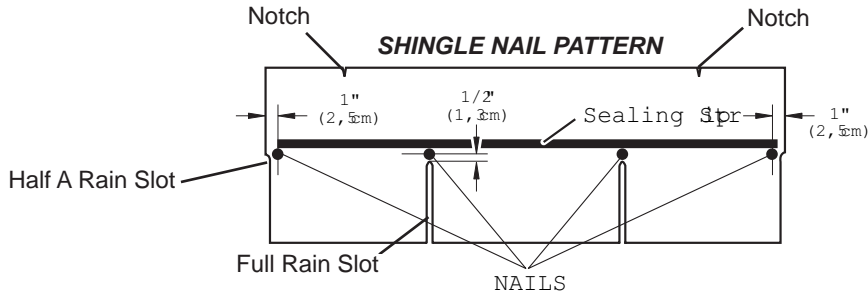
NAILS

⚠ **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.

**FRONT OF
SHED**

**BACK OF
SHED**

(4) Nails

⚠ **TABS UP**

**1" (2,5 cm) overhang or
flush with drip edge.**

**Shingle overlaps
roof decking.**

**1" (2,5 cm) overhang
past roof deck.**
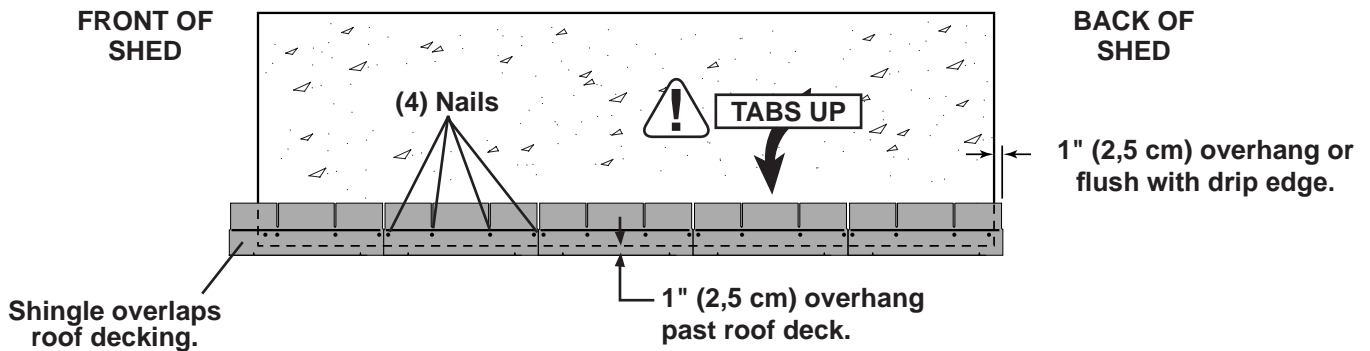
2 Beginning at front of shed, install first row of shingles with notch at 1" past roof edge or flush with drip edge.

Roof Deck

**FRONT OF
SHED**

**BACK OF
SHED**

1"
(2,5 cm)

Notch

Flush with starter row.

- or -

Drip Edge

Notch

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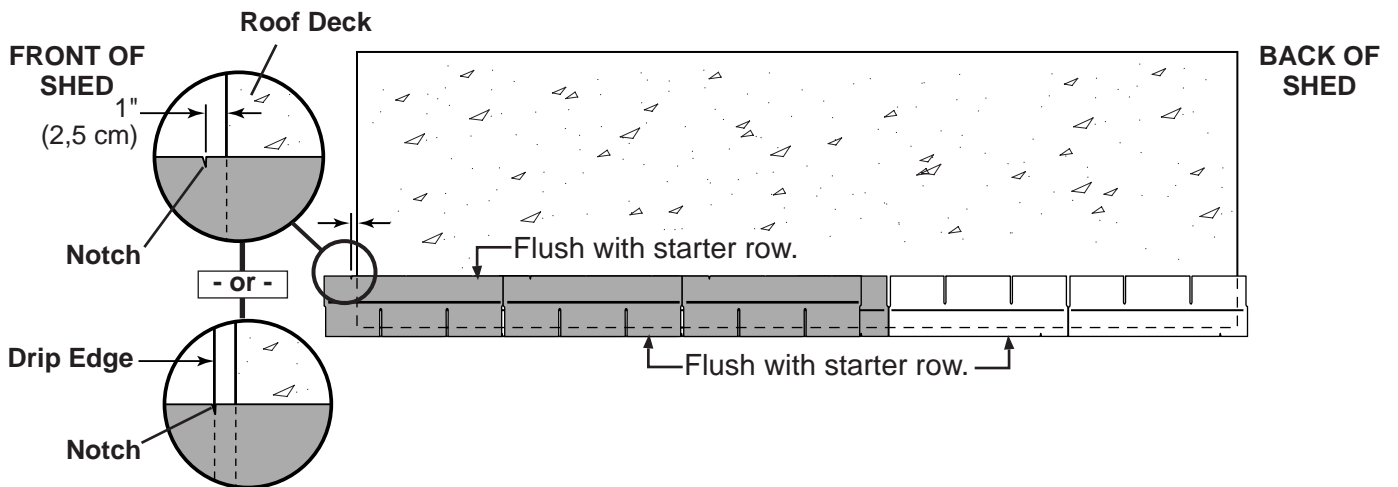
3 Install second row of shingles flush at top of first row's rain slots. Ensure 1" overhang or flush to drip edge at front, stagger each row.

FRONT OF SHED

BACK OF SHED

Bend in roof

1"
(2,5 cm)

Notch

Flush with rain slots.

Flush with rain slots.
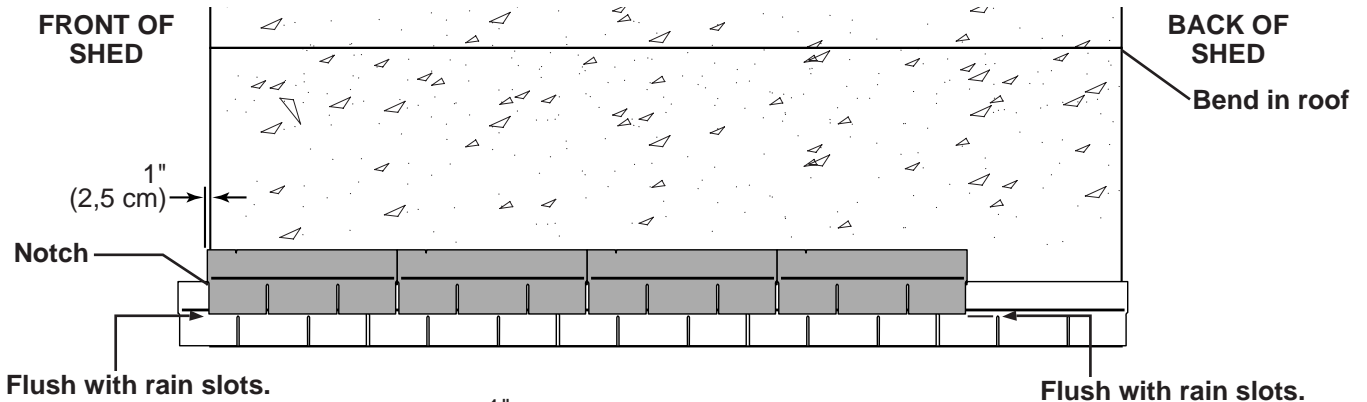
4 Continue installing rows of shingles by staggering at front.

1"
(2,5 cm)

FRONT OF SHED

Notch
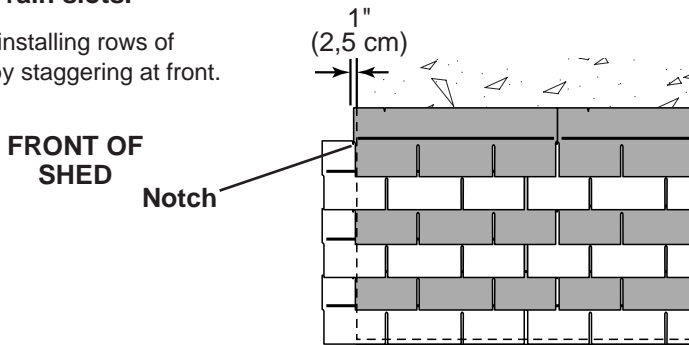
5 The shingle over the bend in the roof will be nailed down. You will need 3" to 4" of this shingle to extend downward over the bend for nailing.

Look for either of the following:
• If the rain slot of the shingle installed over the bend is ABOVE the bend and 3" to 4" of it overhangs down over the bend, continue shingling up to the peak. You have enough to nail shingle down over the bend.

FRONT OF SHED

Bend in roof

Rain slot above bend.

Flush to rain slot.

3" to 4"
(7,6 cm to 10 cm)

- OR -
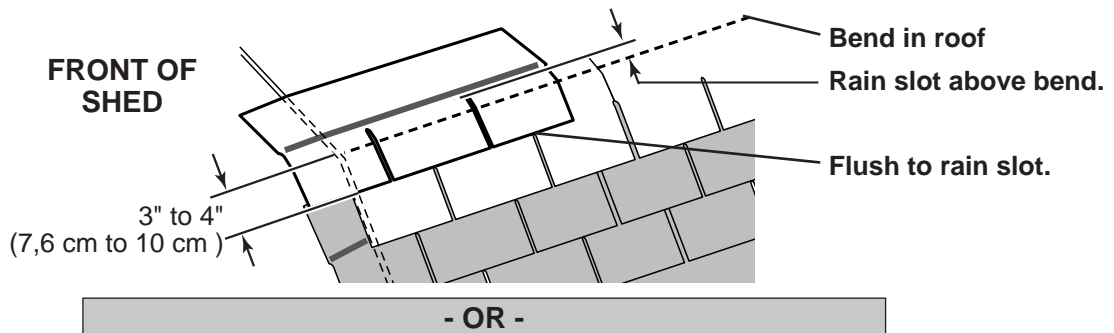
• If the rain slot of the shingle installed over the bend is BELOW the bend, install the shingle over the bend and overlap the rain slot to get the 3" to 4" overlap.

FRONT OF SHED

Bend in roof

Rain slot above bend

Overlap rain slot
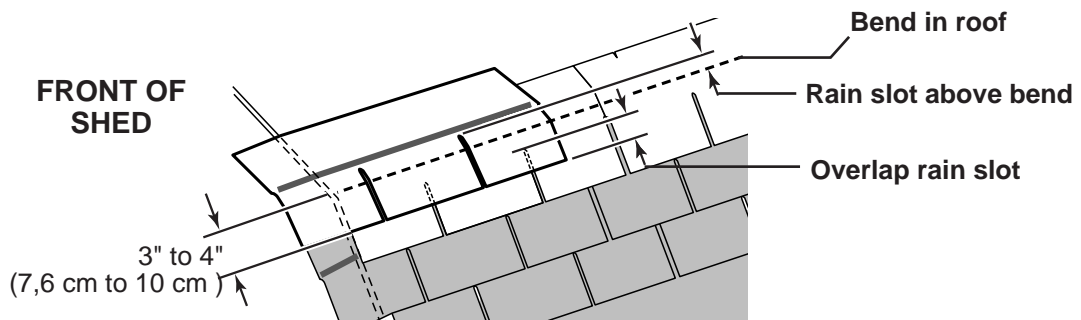
3" to 4"
(7,6 cm to 10 cm)

⚠ The shingle OVER the bend must be installed with a 3" to 4" overlap **AND** the rain slot above the bend.

6 After shingles are installed over bend, nail down overlap using two roofing nails per tab.

(2) Nails per tab.
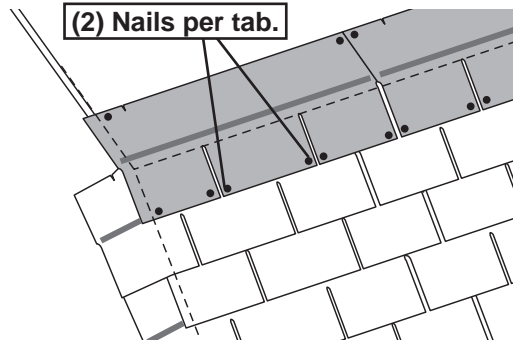
7 Continue installing rows of shingles to the peak. At the peak make sure there is a maximum of 5" or less to the rain slot, as shown below. If shingles overlap at ridge cut to peak with a utility knife.

5"
(12,7 cm) MAX.

Cut Off.

Top of rain slot.

CUT

5"
(12,7 cm)
or less.
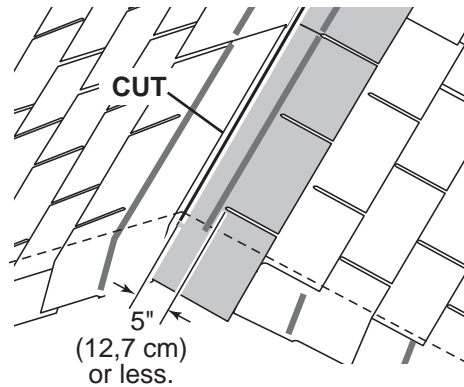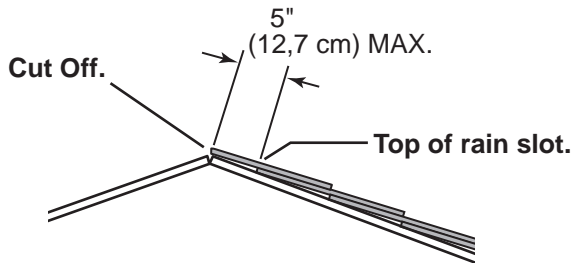
⚠ **• If more than 5" to rain slot you must install another row of shingles.**

8 Repeat steps 1 - 7 to shingle the opposite side of your roof. Trim shingles at ridge.

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

10 Using your shingle hooked blade carefully cut shingles along chalk line.

🏁
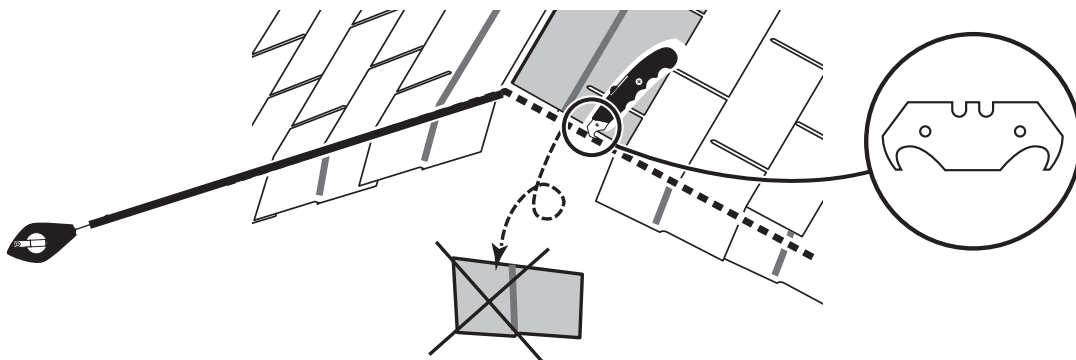
You have finished shingling your roof. Proceed to capping the ridge.

SHINGLES - RIDGE CAP
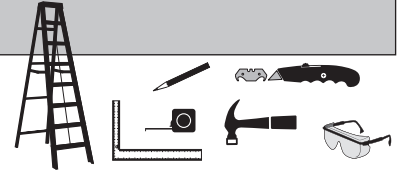
• You will finishing off the top of the roof with a ridge cap made from shingles.

✓**BEGIN**

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

2"
(5,1 cm)

2"
(5,1 cm)

2"
(5,1 cm)

2"
(5,1 cm)

2"
(5,1 cm)

2"
(5,1 cm)
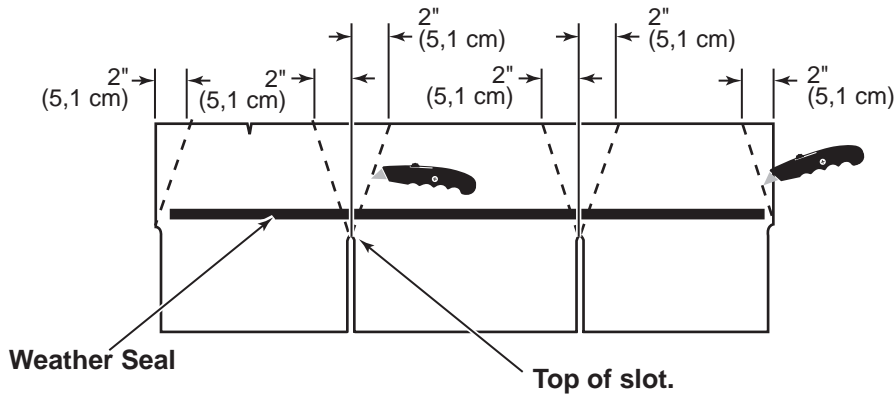
**Score shingle,
then snap-off angled cut.**

Weather Seal

Top of slot.

Note: You will need about 30 - 32 cut pieces.

**30 to 32
Pieces**

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

(1) Nail per side through weather seal.

Flush

**FRONT OF
SHED**
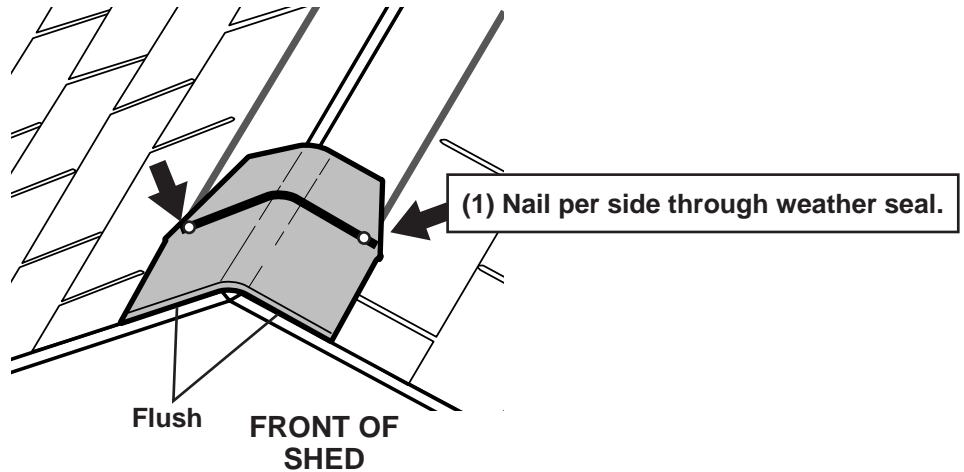
3 Install second ridge cap 5" back, as shown.

(1) Nail per side through weather seal.

5"
12,7 cm

Flush

**FRONT OF
SHED**
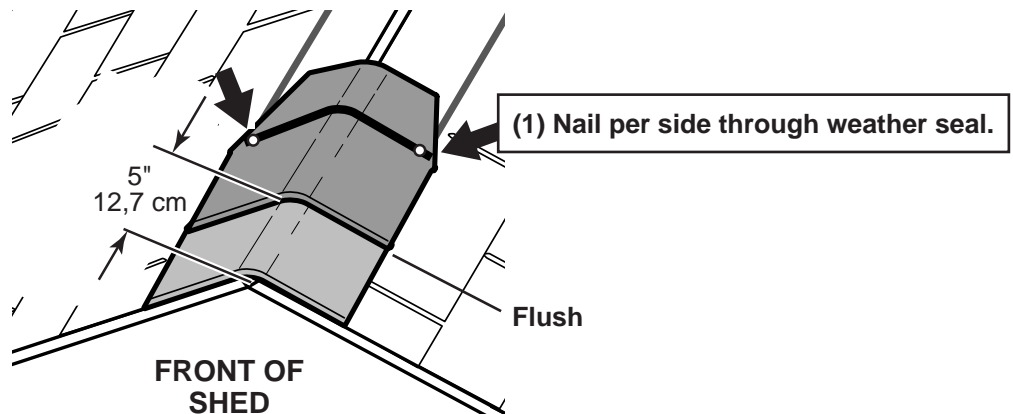
SHINGLES - RIDGE CAP
continued...

4 Continue installing ridge cap to back of roof.
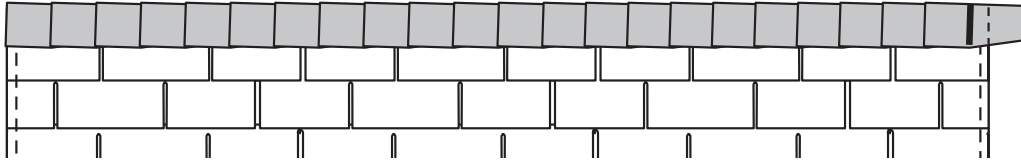
5 Make sure there is 4" between the shingle-color and edge of shingles.

Trim cap off flush to shingles

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

Cap

7 Install flush to shingles.

Flush to shingles

(2) Nails per side.
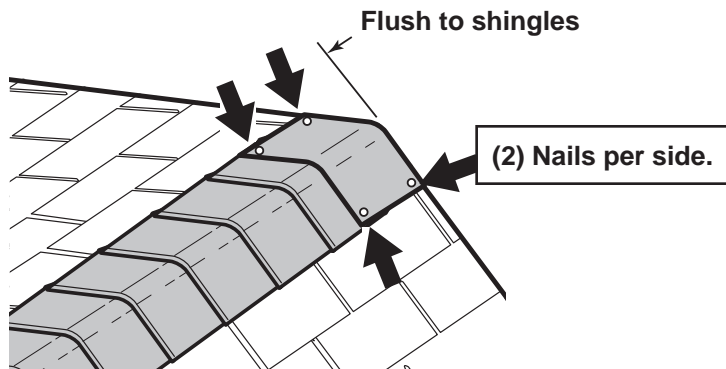
FINISH

You have finished your ridge cap.

16913 8' x 12' Order Form

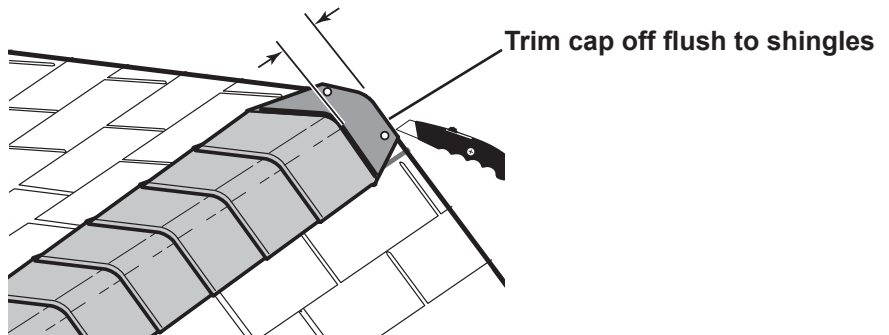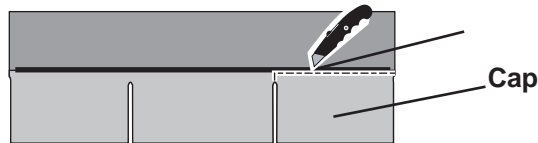| CATEGORY	PART DESCRIPTION	PART SIZE	PART ITEM #	BUILDING QTY.	PART ID
2 X 3	Top/Bottom Plate "A"	LUM SPF 2X3X96 #2&BTR	12115	4	**PT**
	Top/Bottom Plate "B"	2 X 3 X 48" PLATE	Q 48000000000	4	**NK**
	Wall Stud	2 X 3 X 44" CRATE SUPPORT	Q 44000000000	14	**AFE**
	Backwall Top Plate	2 X 3 X 90-1/8" 24.5* BOTH ENDS	Q 90022424000	1	**ELC**
	Back Wall Stud	2 X 3 X 45 1/2"	Q 45080000000	3	**NE**
	Back Wall Connector "B"	2 X 3 X 35"	Q 35000000000	1	**BSN**
	Front Wall Supports	2 X 3 X 70 1/4" STUD	Q 70040000000	2	**OZ**
	Over Door Support	2 X 3 X 51" PACKING MTL /	Q 51000000000	1	**EH**
	Front Wall Gable Connector	2 X 3 X 11 3/4"	Q 11120000000	1	**DT**
2 X 4 TREATED FLOOR FRAME	Bond Board "A"	LUM TRTD 2 X 4 X 96 #2&BTR	P 96000000000	2	---
	Floor Joist	LUM TRTD 2 X 4 X 93 #2&BTR	P 93000000000	10	---
	Bond Board "B"	LUM TRTD 2 X 4 X 48 #2&BTR	P 48000000000	2	---
1 X 3	Gauge Block	1 X 3 X 5" PINE FILLER	U 05000000000	1	**GAA**
7/16 OSB	Lower Large Roof Panel "A"	7/16" OSB 23 7/8" X 96" ROOF	C 96002314000	2	---
	Lower Large Roof Panel "B"	7/16" OSB 23 7/8" X 48" ROOF &	C 48002314000	2	---
	Upper Roof Panel "A"	7/16" OSB 35 3/8" X 96" ROOF	C 96003506000	2	---
	Upper Roof Panel "B"	3/8" X 35-3/8" X 48" ROOF PANEL	C 48003506000	2	---
	Lower Small Roof Panel "A"	7/16" OSB 11 7/8" X 96"	C 96001114000	2	---
	Lower Small Roof Panel "B"	7/16" OSB 11 7/8" X 48"	C 48001114000	2	---
5/8 OSB	Floor Panel	OSB 5/8" X 4' X 8'	11117	3	---
GUSSETS	Gusset	EZ 8"/ OSB 6" X24" GUSSET 17*	J 24000600170	12	---
NO GROOVE SIDING	Right Front Wall	NG 2017 LIQUIDATOR GMBL 8X10 R	K 96004800850	1	---
	Left Front Wall	NG 2017 LIQUIDATOR GMBL 8X10 L	K 96004800855	1	---
	Right Back Gable	3/8" NG 42-1/4" X 48" RIGHT	K 48004204144	1	---
	Left Back Gable	3/8" NG 42-1/4" X 48" LEFT	K 48004204244	1	---
	Back / Side Wall Panel	SIDING NG 4'X4'	11504	8	---
	Horizontal Battens	3/8" NG 1 3/4" X 72 3/8"	K 72060112000	4	---
	Side / Front Wall Battens	3/8" NG 1 3/4" X 45-3/8"	K 45060112000	8	---
19/32 X 3 SMART TRIM	Over Door Trim	19/32 TST 2 1/2" X 55" TRIM	UT55000208000	1	**ZB**
19/32 X 4 SMART TRIM	Upper Gable Trim - Right	2 X 4 X 35 3/4" 17*/24*	UT35121724100	2	**ZHR**
	Upper Gable Trim - Left	2 X 4 X 35 3/4" 17*/24*	UT35121724200	2	**ZHL**
	Lower Gable Trim - Right	2 X 4 X 36-3/4" 24*/24* RIGHT	UT36122424100	2	**DBR**
	Lower Gable Trim - Left	2 X 4 X 36-3/4" 24*/24* LEFT	UT36122424200	2	**DBL**
PURCHASED COMPONENTS	Door Stiffener	LSL 1-1/4 X 2-1/4 X 69 PET	12715	2	**OO**
	Truss Assembly	TRUSS Sub-Assy Gambrel 8' Wide	30040	14	---
	Black T&D Handle	HANDLE - T 4" SHAFT & "D"	15375	1	---
	6D Nails	NAIL 6D 2" BOX HDG BOX	15105	5	---
	10D Nails	NAIL 10D 3" BOX HDG BOX	15109	3	---
	Barn Vent	VENT 16" X 8" EXTERIOR (WHITE)	15002	2	---
	Z-Channel	Z CHANNEL 3/8" X 8' PLASTIC	17209	1	---
PACKAGING	Instructions		16913	1	---
Right Door Assembly	**30280-R**				
	Door Panel	3/8" NG 23 3/4" X 71 1/2" DOOR	K 71082312000	1	---
	Right Hinge Assembly	HINGE RIGHT (RED) 19/32x3 THIN TRIM	30121-TT	1	---
	Vertical Door Stiles	19/32 TST 2 1/2" X 71 5/8"	UT71100208000	2	**GY**
	Horizontal Door Rails	19/32 TST 2 1/2" X 18-5/8" RAIL	UT18100208000	3	**EGB**
Left Door Assembly	**30280-L**				
	Door Panel	3/8" NG 23 3/4" X 71 1/2" DOOR	K 71082312000	1	---
	Left Hinge Assembly	HINGE LEFT (GREEN) 19/32x3 THIN TRIM	30131-TT	1	---
	Vertical Door Stiles	19/32 TST 2 1/2" X 71 5/8"	UT71100208000	2	**GY**
	Horizontal Door Rails	19/32 TST 2 1/2" X 18-5/8" RAIL	UT18100208000	3	**EGB**

LIMITED CONDITIONAL WARRANTY*

Backyard Storage Solutions, LLC warrants the following:
1.   Every product is warranted from defects in workmanship and manufacturing for 1 year.
2.   All accessories, hardware and metal components are warranted for 2 years.
3.   All Oriented Strand Board (OSB) is warranted for 2 years
4.   Siding and Trim is warranted for 10 years.
5.   Solar Shed windows are warranted for 1 year.
6.   Cedar lumber is warranted for 15 years.
7.   Preserved Pine is warranted for 10 years.
8.   Redwood is warranted for 10 years.

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

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 quality, 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 siding/trim and OSB siding to include all exterior walls and all sides and all edges of doors.

Gazebos & Pergolas

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 pergola structure 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 email: customerservice@backyardproducts.com.
 Please have ready the information below when you call or include the information in your email:
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 or receipt.
4.   Run code: found on exterior product label or assembly instructions enclosed in the product package.

All other inquiries can be mailed to:
        Backyard Storage Solutions, LLC
        Attn: Customer Service
        1000 Ternes
        Monroe, MI 48162

<div align="center">

***WARRANTY TERMS MAY VARY OUTSIDE THE U.S.A.**
IMPORTANT: This is your warranty certificate.

</div>

10Y MV LDR: 3/20/2019