16771

STOP!

Call Us First!
DO NOT RETURN TO STORE.
For immediate help with assembly or product information
call our toll-free number:
1--800-221-1849
or email:
customerservice@backyardproductsllc.com
Our staff is ready to provide assistance.
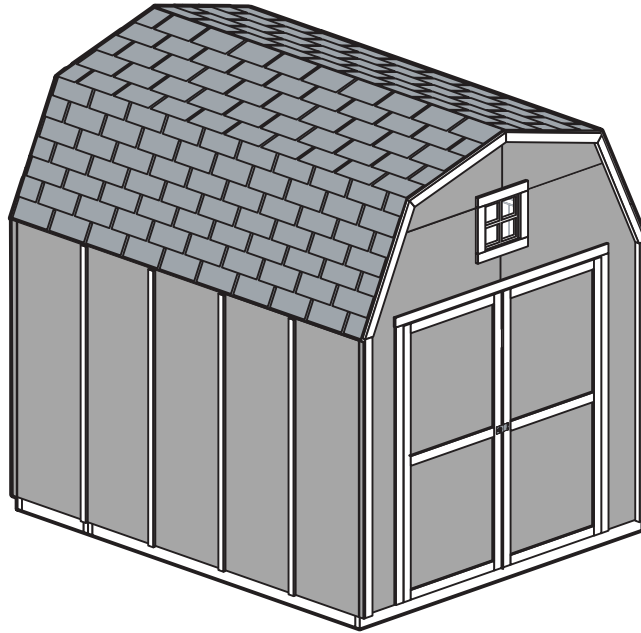**April through October M - F 8:00 AM to 8:00 PM EST**
Saturday 8:30 AM to 4:30 PM EST
November through March M - F 8:00 AM to 5:00 PM EST

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HANDY HOME PRODUCTS
A Backyard Products Company

ASSEMBLY MANUAL

MONTANA 8' x 9' 8-5/8" (244 x 296 cm)
ACTUAL FLOOR SIZE IS 96 x 116-5/8" (244 x 296 cm)

KEEP THIS MANUAL FOR FUTURE REFERENCE

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

BEFORE YOU BEGIN

- **BUILDING RESTRICTIONS AND APPROVALS**
  Be sure to check with local building department and homeowners association for specific restrictions and/ or requirements before building

- **ENGINEERED DRAWINGS**
  Contact our Customer Service Team if engineered drawings are needed to pull local permits.

- **SURFACE PREPARATION**
  To ensure proper assembly you must build your shed on a level surface. Recommended methods and materials to level your shed are listed on page 8.

- **CHECK ALL PARTS**
  Inventory all parts listed on pages 4 - 6. Contact our Customer Service Team if any parts are missing or damaged.

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

- CUSTOMER SERVICE -
Call: 1-800-221-1849   email: customerservice@backyardproductsllc.com

TOOLS

Required		Optional

Required

- ❏ Phillips Screwdriver
- ❏ Drill / Driver
  - ❏ #2 Philips Drive Bit
- ❏ Drill / Driver
  - ❏ 1/4" (0,6 cm) Drill Bit
  - ❏ 3/8" (1 cm) Drill Bit
  - ❏ 1/2" (1,3 cm) Drill Bit
- ❏ Hammer
- ❏ Level
- ❏ Pencil
- ❏ Tape Measure
- ❏ Utility Knife
  - ❏ Shingle Blades
- ❏ Caulk Gun
- ❏ Saws-All/ Sabre Saw
- ❏ Paint Tools
- ❏ Safety Glasses
- ❏ Ladder

Optional

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

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

ADDITIONAL MATERIALS

FOUNDATION OR FLOOR MATERIALS

• This shed kit provides directions for a wood floor system, which is not included.

• This shed does not include any leveling materials.
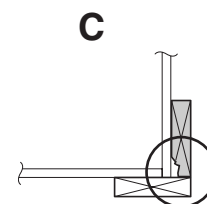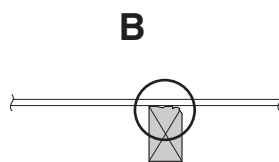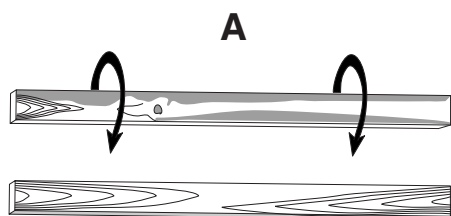
• **See the FLOOR LEVELING section on page 9 for recommended methods and suggested materials to properly level your floor, as this will vary depending on your specific site.**

REINFORCED WOOD FLOOR FRAME (OPTIONAL)

IMPORTANT! The included floor has been designed for general use. 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):
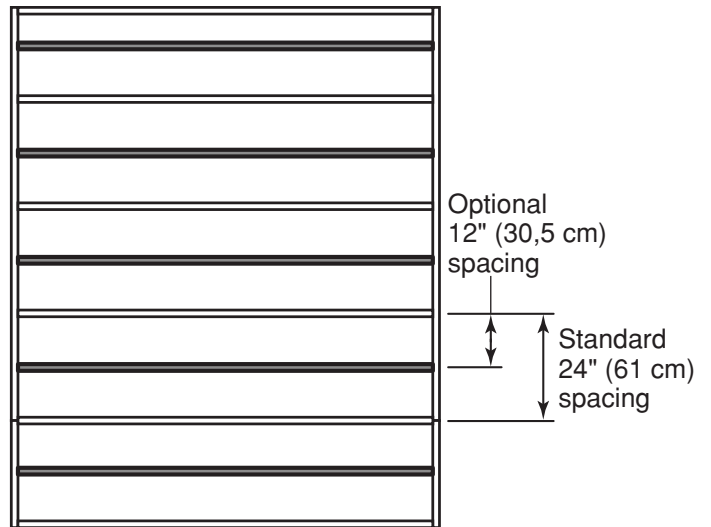
☐ **x5** 2 x 4 x 8' (5 x 10 x 244 cm) Treated Lumber Cut to (5) 2 x 4 x 93" (5 x 10 x 236,2 cm)

☐ **x20** ea. 3" (7,6 cm) Hot Dipped Galvanized Nails

Optional 12" (30,5 cm) spacing

Standard 24" (61 cm) spacing

COMPLETING YOUR SHED
You will need these additional materials:

☐ **3-TAB SHINGLES** .... 6 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**.......... 3 Lbs
For shingles.

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

☐ **WOOD GLUE** .... Exterior Rated

OPTIONAL MATERIALS

☐ **DRIP EDGE**.......................... 30 Feet

☐ **#15 ROOFING FELT**
To cover 145 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.

3

PARTS IDENTIFICATION AND SIZES

Part identification is stamped on some parts.

RS **RS**
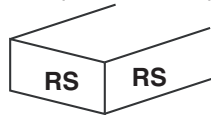
• Check these locations for part stamp.

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 24" (5 x 10 x 52,1 cm)
- x2 TREATED 2 x 4 x 92-5/8" (5 x 10 x 243,8 cm)
- x6 TREATED 2 x 4 x 93" (5 x 10 x 236,2 cm)

Floor framing joists must be

TREATED

WALLS

- x1 GAA 1 x 3 x 5" (2,5 x 7,6 x 12,7 cm) **GAUGE BLOCK FOR 3/4" (1,9 CM) MEASUREMENT.** 3/4" (1,9 cm)
- x1 LG 2 x 3 x 12-1/4" (5 x 7,6 x 31 cm)
- x1 LN 2 x 3 x 16-1/2" (5 x 7,6 x 42 cm)
- x1 LT 2 x 3 x 22-1/8" (5 x 7,6 x 56,2 cm)
- x2 NZ 2 x 3 x 22-7/8" (5 x 7,6 x 58,1 cm)
- x1 DU 2 x 3 x 36" (5 x 7,6 x 91,4 cm)
- x4 NH 2 x 3 x 46-1/4" (5 x 7,6 x 117 cm)
- x1 NK 2 x 3 x 48" (5 x 7,6 x 122 cm)
- x8 OU 2 x 3 x 68-3/4" (5 x 7,6 x 174,6 cm)
- x7 OZ 2 x 3 x 70-1/4" (5 x 7,6 x 178 cm)
- x1 PT 2 x 3 x 96" (5 x 7,6 x 243,8 cm)
- x1 PS 2 x 3 x 91" (5 x 7,6 x 231 cm)

RAFTERS

- x8 6 x 24" (15 x 61 cm)
- x8 Pre-assembled
- x2 WO 1 x 4 x 72" (2,5 x 10 x 183 cm)

LOFT

- x3 VW 2 x 4 x 96" (5 x 10 x 244 cm)

TRIM

- x4 NX 2 x 3 x 35-7/16" (5 x 7,6 x 90 cm)
- x4 NY 2 x 3 x 34-1/8" (5 x 7,6 x 86,7 cm)
- x1 HQA 1 x 3 x 70-1/2" (2,5 x 7,6 x 179,1 cm)
- x8 1-3/4 x 72" (4,4 x 183 cm) **BATTENS**
- x4 OB 2 x 3 x 72-5/8" (5 x 7,6 x 184,5 cm)
- x1 96" (244 cm) **Z-STRIP**

DOOR

- x2 OO 2 x 3 x 69" (5 x 7,6 x 175,3 cm) **Finger Jointed**
- x1 ZJ 5/8 x 3 x 72" (1,6 x 7,6 x 183 cm)

4
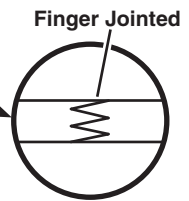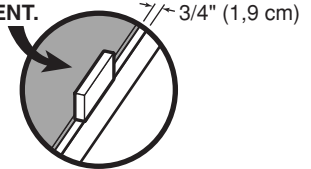
PANEL PARTS LIST

NOTE: Panel parts are not stamped with part identification.

LOFT

Loft panel is 7/16" (1,1 cm) thick.

☐ x1

7/16 x 48 x 84-3/8"
(1,1 x 122 x 214,3 cm)

ROOF PANELS

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

☐ x2
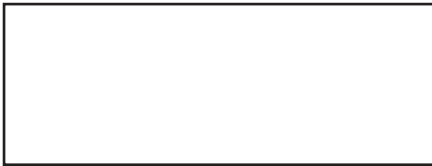
7/16 x 35-3/8 x 96"
(1,1 x 89,8 x 244 cm)

☐ x2
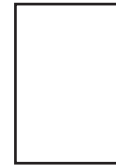
7/16 x 35-3/8 x 23-7/8"
(1,1 x 89,8 x 61 cm)

☐ x2

7/16 x 23-7/8 x 96"
(1,1 x 61 x 244 cm)

☐ x2

7/16 x 23-7/8 x 23-7/8"
(1,1 x 61 x 61 cm)

☐ x2

7/16 x 11-1/2 x 96"
(1,1 x 29,2 x 244 cm)

☐ x2

7/16 x 11-1/2 x 23-7/8"
(1,1 x 29,2 x 61 cm)

DOOR HARDWARE AND WINDOW PARTS LIST (Not Actual Size)

☐ x1

12 x 12"
(30,5 x 30,5 cm)
Window

☐ x2 **EU**

1 x 3 x 17" (2,5 x 7,6 x 43 cm)

☐ x2 **DI**
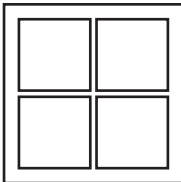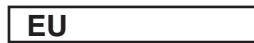
1 x 3 x 12" (2,5 x 7,6 x 30,5 cm)

☐ x1
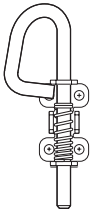
☐ x4
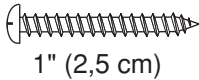
1" (2,5 cm)

☐ x1
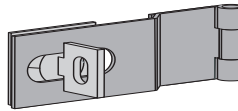
☐ x7
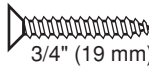
3/4" (19 mm)

NOTES

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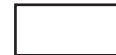# WALL PANEL & DOORS PARTS LIST

☐ x1 **LEFT BACK**   ☐ x1 **LEFT FRONT**   ☐ x1 **RIGHT FRONT**   ☐ x1 **RIGHT BACK**

NOTE: Panels have a primed side.

☐ **x2**
3/8 x 23-7/8 x 72"
(1 x 61 x 183 cm)

☐ **x4**
3/8 x 48 x 72"
(1 x 122 x 183 cm)

☐ **x1**   ☐ **x1**

☐ **x1**
LEFT DOOR

☐ **x1**
RIGHT DOOR

☐ **x1**   ☐ **x1**
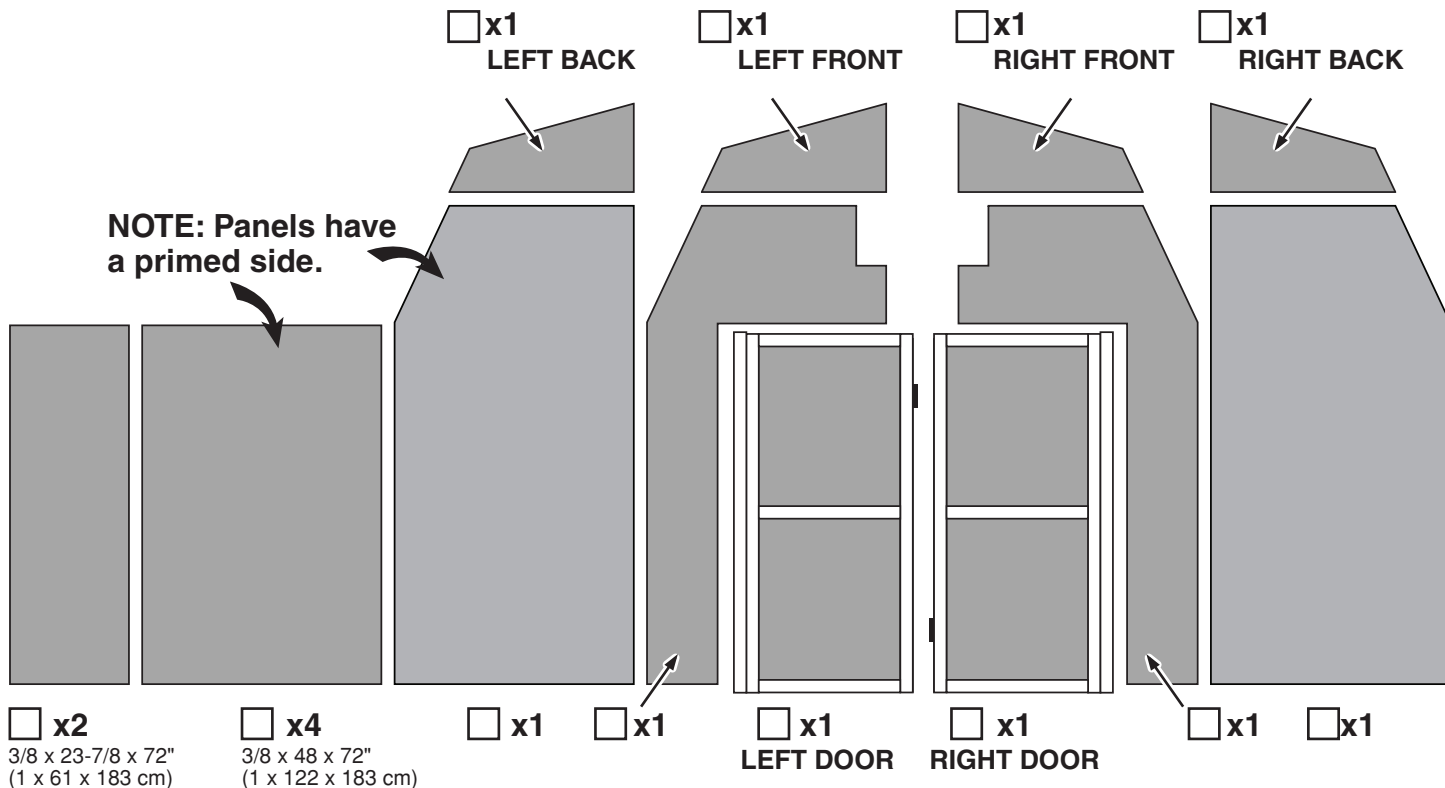
FASTENER/HARDWARE BAG (Shown Actual Size)

☐ **x28** 2" (5,0 cm)

☐ **x45** ⊕ 3" (7,6 cm)

☐ **x22** ⊕ 2" (5,0 cm)

☐ **x118** ⊕ 1-1/4" (3,2 cm)

☐ **x71** ⊕ 3/4" (19 mm)

NOTES

6

FLOOR PANELS

Floor panels are 5/8" (1,6 cm) thick Oriented Strand Board (OSB).

☐ **x1**

5/8 x 20-5/8 x 96"
(1,6 x 52,4 x 244 cm)

☐ **x2**
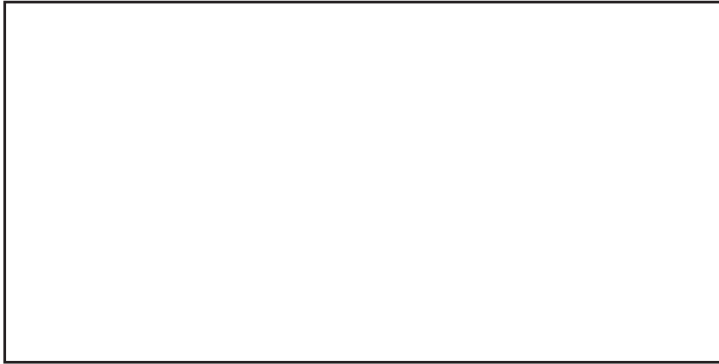
5/8 x 48 x 96"
(1,6 x 122 x 244 cm)

NAIL BOXES

(Shown Actual Size)
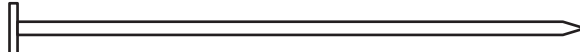
☐ **x2 BOXES** ——————————————→ 3" (7,6 cm)

☐ **x5 BOXES** ——————————→ 2" (5,0 cm)

NOTES

BUILDING ANATOMY

This building has been designed using our patented EZ Frame construction method. EZ Frame is a unique construction method which has been engineered to use fewer framing members. This reduces assembly time and cost by as much as 30% compared to conventional construction methods. **EZ Frame patent no. 5,666,766**

All of our buildings have been engineered to withstand demanding wind and snow loads. If you live in an area with extreme wind/snow load requirement, contact us and we can assist with engineering to meet your local codes.
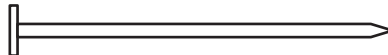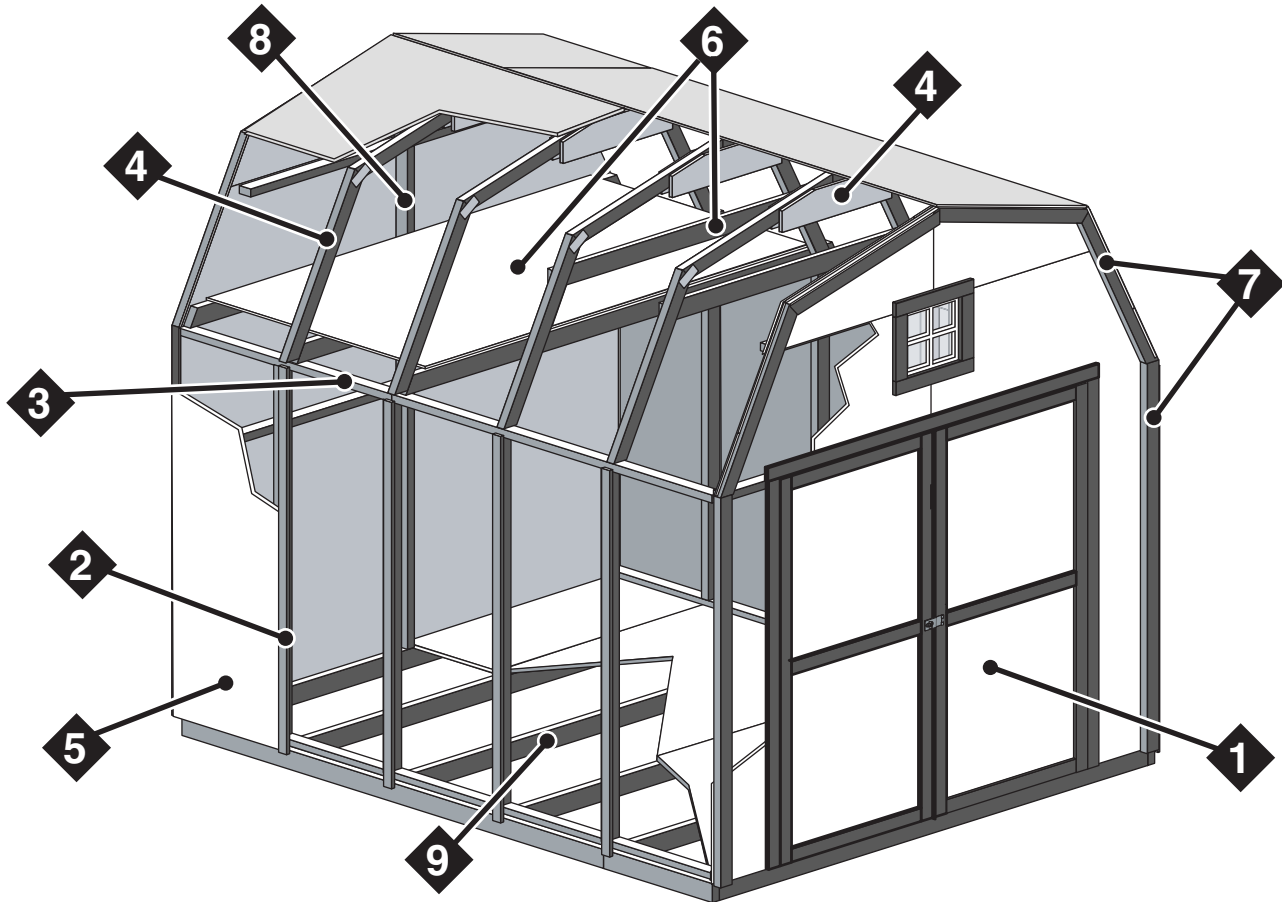
1 Sub-assembled doors.

2 2x3 wall studs have been engineered to support roof load and to meet demanding wind loads.

3 Sidewall top plates tie wall studs together and provide nailing support for top and bottom edge of siding.

4 Rafters line up over wall studs to effectively transfer roof load to the floor and eliminate need for double top plate. Oversized wood gussets at peak provide a strong connection for rafter halves.

5 Treated siding overhangs the wall framing and floor to keep the elements out.

6 Collar ties and storage loft tie sidewalls together to prevent spreading under heavy roof loads.

7 Corner studs & end rafters are positioned to the outside of the siding where they serve the dual purpose of framing and trim.

8 The EZ Frame design transfers the roof load to the side walls allowing for reduced framing at the front and back wall.

9 Floor frame and deck not included.

There are multiple ways to level your floor frame. Our recommended leveling method is shown below.
Leveling materials are not included in this kit.
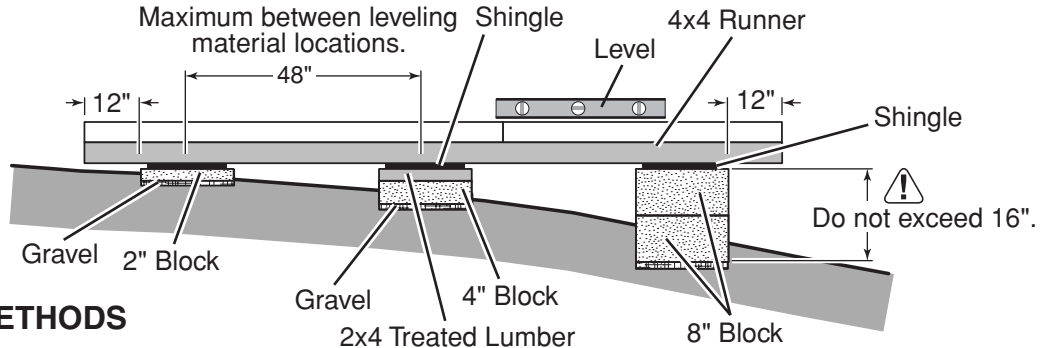
PREFERRED METHOD - 4x4 TREATED RUNNERS

**4x4 Runners
(not included)**

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

12"
(30,5 cm)

12"
(30,5 cm)

96"
(244 cm)

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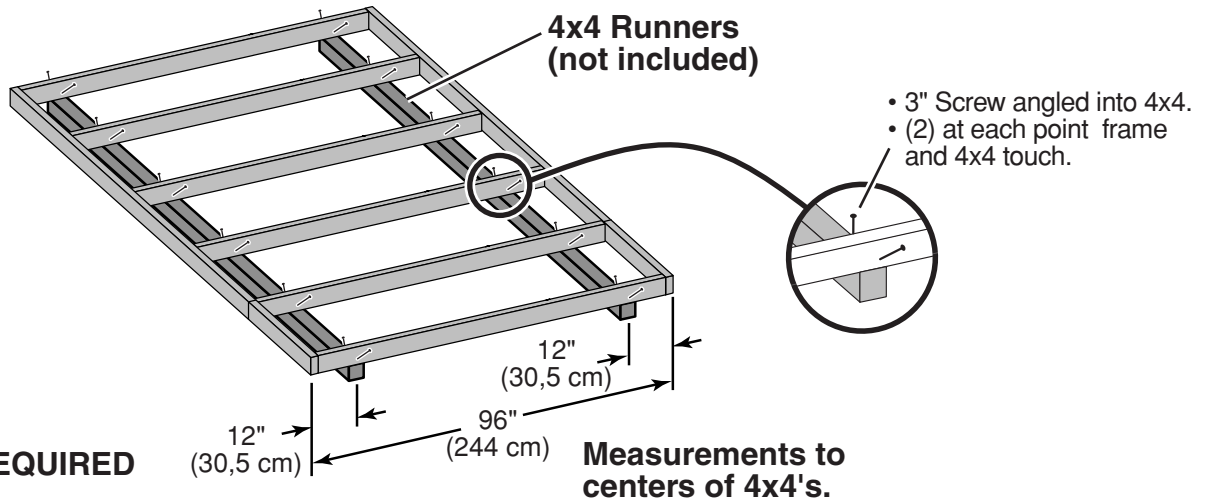
MATERIAL REQUIRED

☐ **x2** 4" x 4" x 10' (10 x 10 x 305 cm)Treated Lumber

☐ **Fasteners for Frame to 4"x 4".**
(3" Screws shown as one option.) Minimum (24) 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

Gravel

2" Block

Gravel

2x4 Treated Lumber

4" Block

8" Block

⚠ Do not exceed 16".

LEVELING METHODS

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

LEVELING MATERIALS

☐ Gravel

☐ Solid Masonry Blocks in 1", 2", 4" or 8" thickness

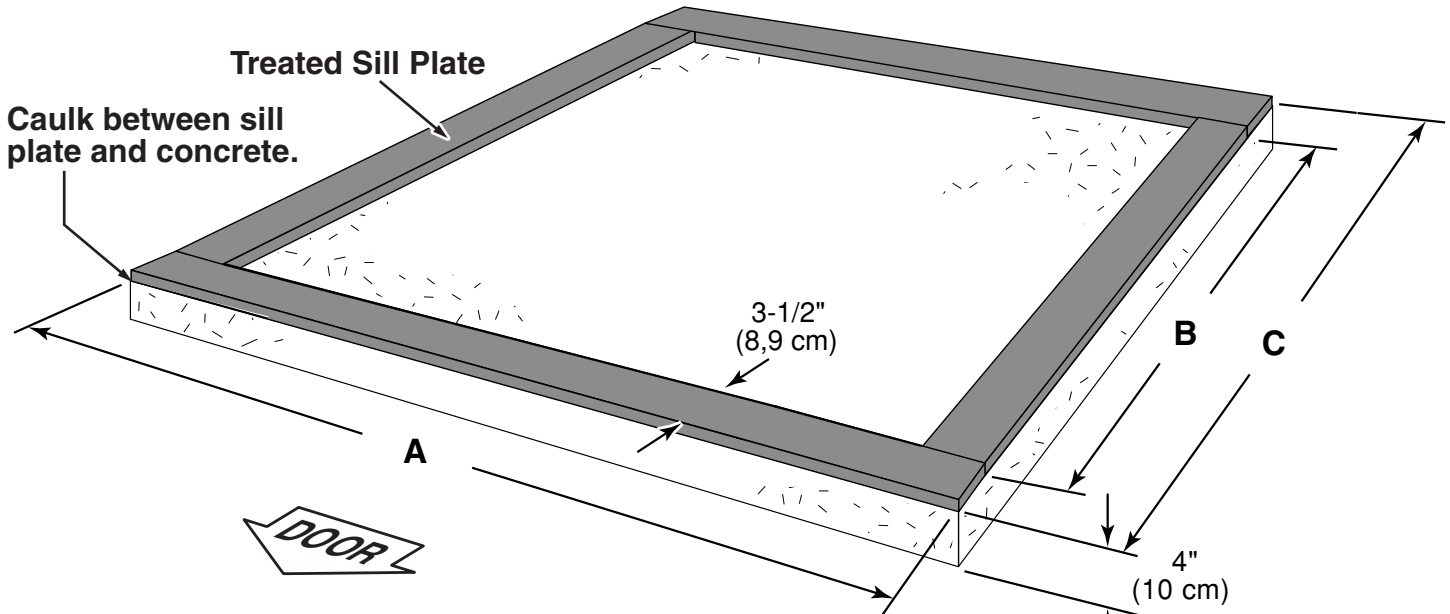☐ 2x4 Treated Lumber

☐ Asphalt Shingles

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

CONCRETE

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

9

CONCRETE FOUNDATION

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

Treated Sill Plate

Caulk between sill plate and concrete.

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

B C

A

DOOR

4" (10 cm)

Building Size	Actual Floor Size	A	B	C
8' x 10' (244 x 305 cm)	8' x 9'-8-5/8" (244 x 296 cm)	96" (244 cm)	109-5/8" (278 cm)	116-5/8" (296 cm)

Requires:

☐ **x2** 2 x 4 x 10' (5 x 10 x 305 cm) ⚠ **MUST be treated lumber.**

☐ **x2** 2 x 4 x 8' (5 x 10 x 244 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 x 10 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 x 10 cm) sill plates to slab using approved concrete anchors **(fasteners not included)**.

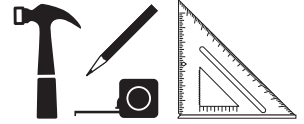• Check local code for concrete foundation requirements.

NOTES

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FLOOR FRAME

PARTS REQUIRED:

x2 | TREATED
2 x 4 x 24" (5 x 10 x 61 cm)

x6 | TREATED
2 x 4 x 93" (5 x 10 x 236 cm)

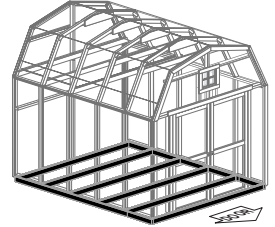**x2** | TREATED
2 x 4 x 92-5/8" (5 x 10 x 235,3 cm)

x28 |──────── 3" (7,6 cm)
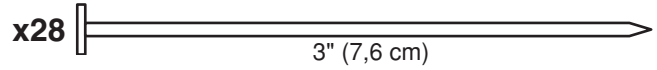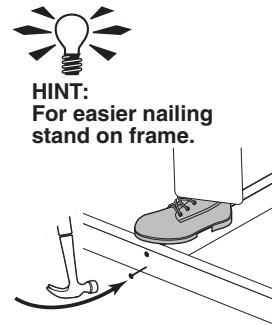
NOTE: Look for
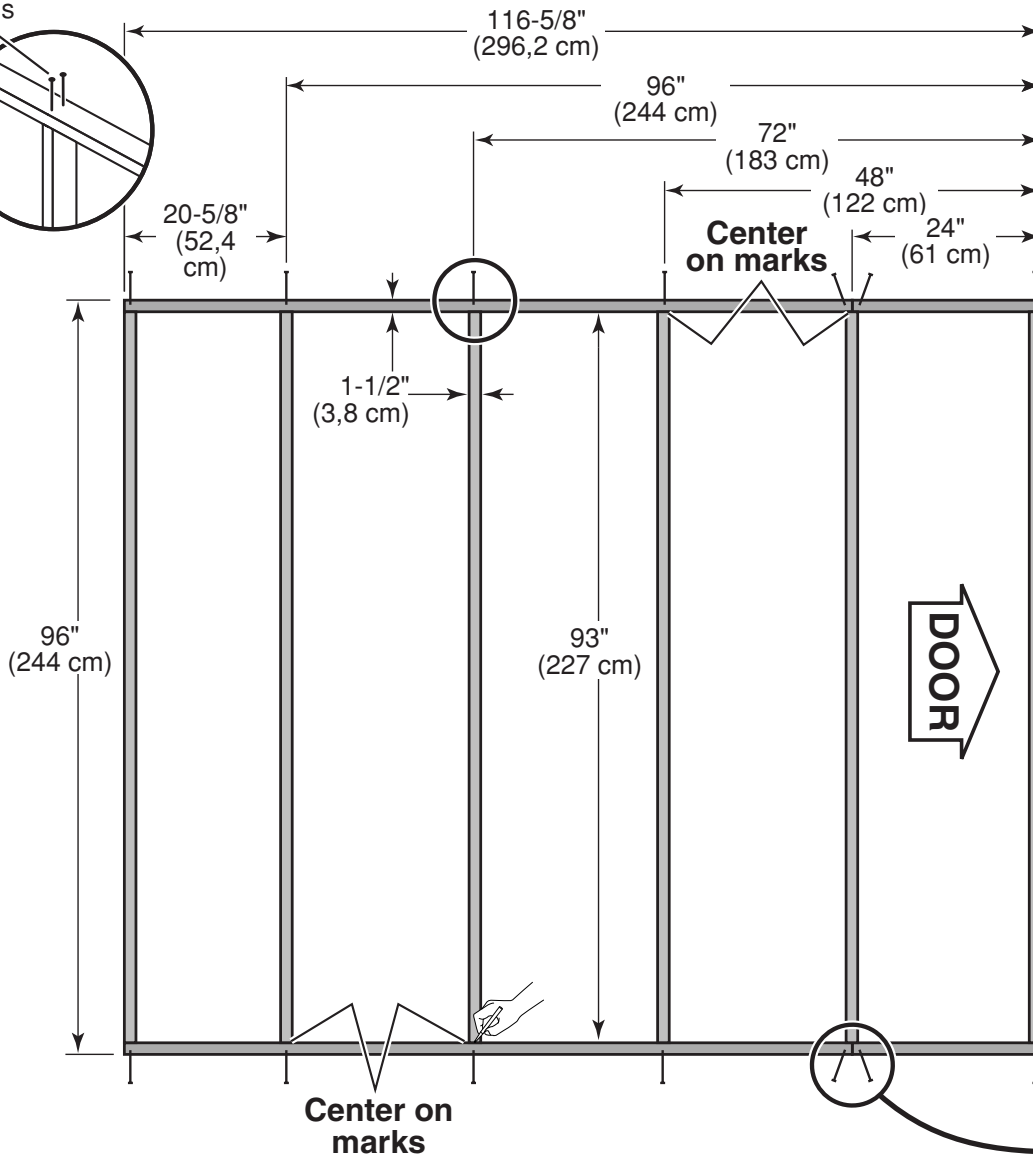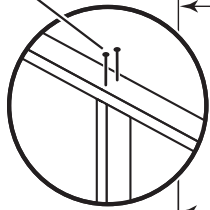
TREATED

Stamp.

✓**BEGIN**

1 Orient parts as shown on flat surface. Measure and mark from end of boards.

2 Use two 3" nails at each mark.

FINISH

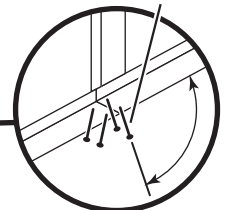**3** You have finished your floor frame. Proceed to level and square frame.

(2) 3" (7,6 cm)
Nails

116-5/8"
(296,2 cm)

96"
(244 cm)

72"
(183 cm)

48"
(122 cm)

HINT:
For easier nailing
stand on frame.

20-5/8"
(52,4 cm)

Center
on marks

24"
(61 cm)

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

96"
(244 cm)

93"
(227 cm)

DOOR

Flush
at ends

(4) 3" (7,6 cm)
Nails

Center on
marks

11

FLOOR FRAME

✓**BEGIN**

1 ⚠️ See page 8 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 151" (385,5 cm).

4 When the frame is level and square secure one side of frame to the 4x4 runners using one fastener at ends of each runner. At the opposite end of the frame, secure the frame to 4x4 runners with one fastener at ends of each runner making sure the frame remains square **(Fig. A)**.
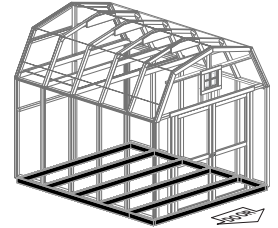
FINISH

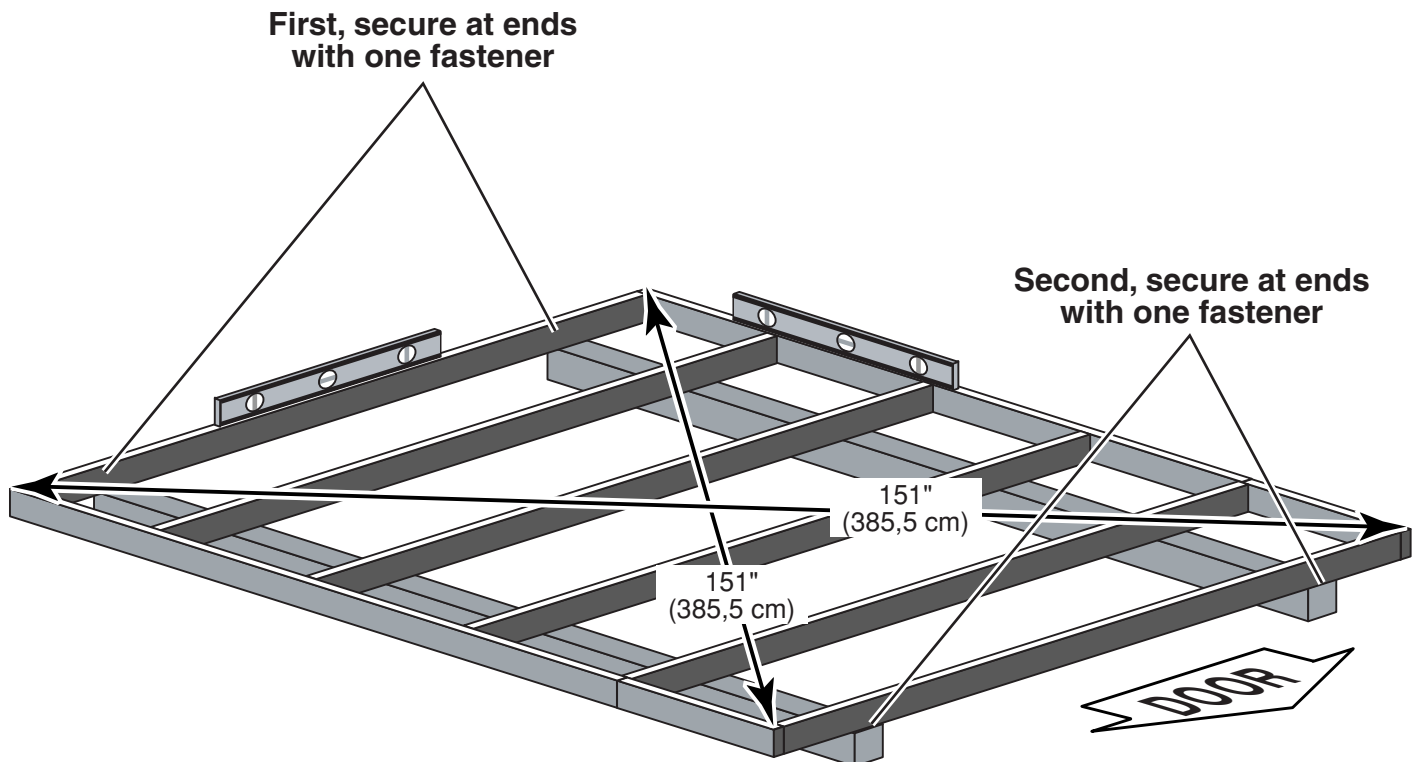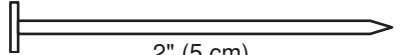**5** Once the floor frame is level and square fasten the frame at each point the frame contacts the 4x4 runners.

First, secure at ends with one fastener

Second, secure at ends with one fastener

151"
(385,5 cm)

151"
(385,5 cm)

DOOR

Fig. A

FLOOR PANELS (Not included)

PARTS REQUIRED:

x1   5/8 x 48 x 96"
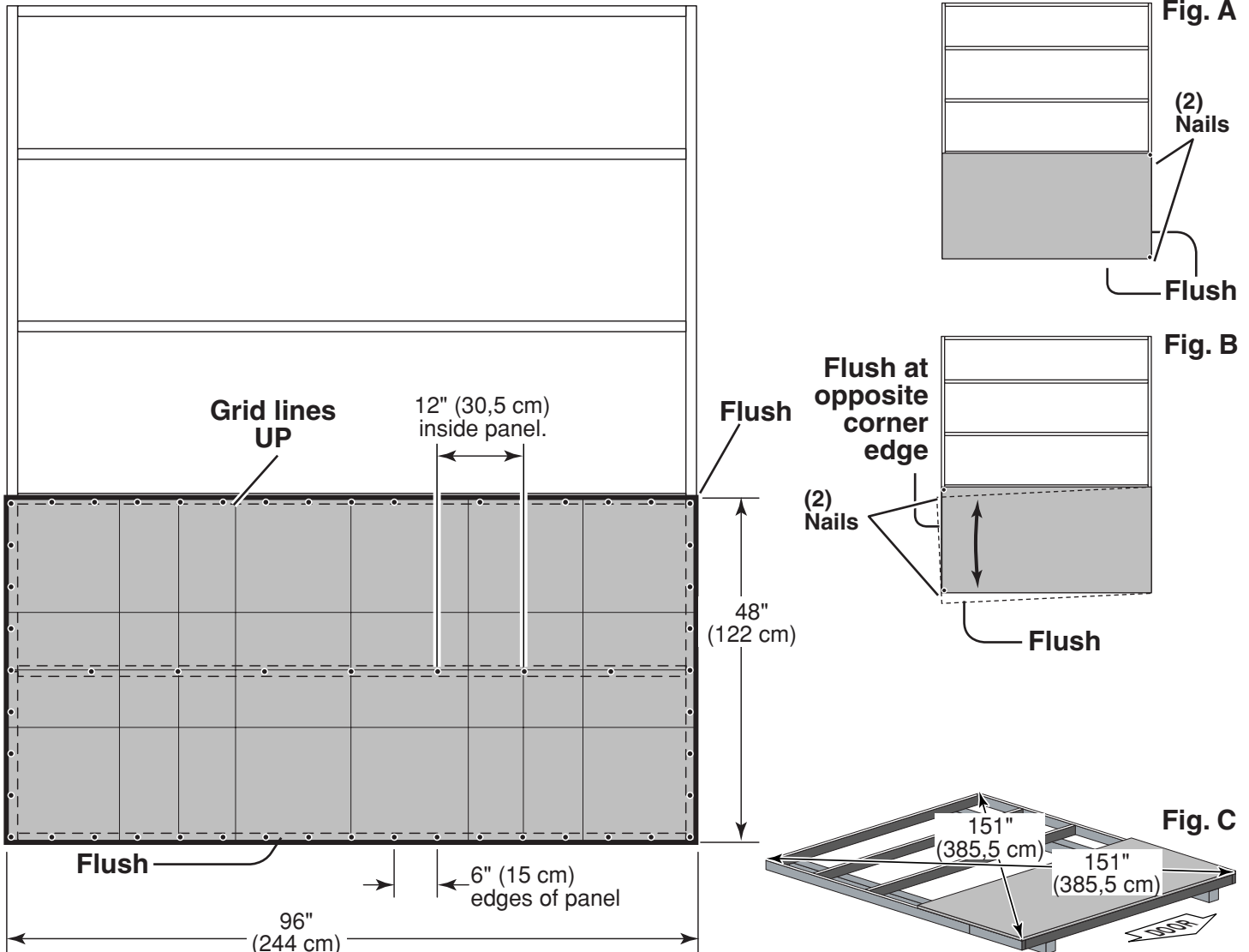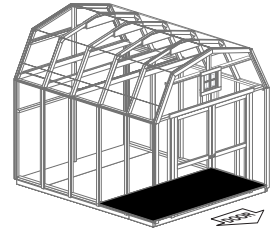   (1,6 x 122 x 244 cm)

x55   2" (5 cm)

⚠ **Floor panels not included.**
See page 3 for panel sizes and quantities.

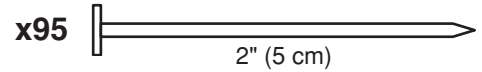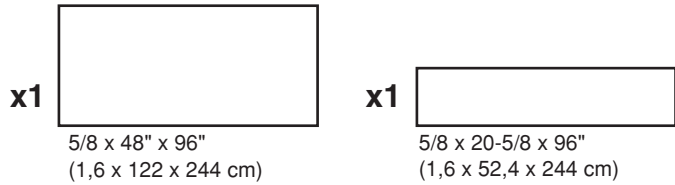⚠ **Ensure your floor frame is square by installing one panel and squaring frame.**

✓ **BEGIN**

1 Attach the 48 x 96" panel with the rough side up (painted-grid lines side) with the 48" edge and corner flush to the floor frame **(Fig A)**. Secure panel with two 2" nails in the corners.

2 Move to the opposite end. Using the long edge of the panel as a lever move the panel side-to-side until the top corner is flush to the floor frame **(Fig. B)**. Secure panel with two 2" nails in the corners.

3 Check the floor frame is square by measuring diagonally across the frame corners. If the measurements are the same your floor frame is square. The measurement will be approximately 151" (385,5 cm) **(Fig. C)**.

4 Continue attaching the panel using 2" nails 6" apart on edges and 12" apart inside panel. Use a chalk line or use pre-painted grid lines to nail into joists under panel.
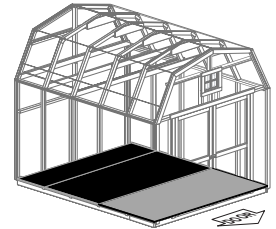
Fig. A

(2) Nails

Flush

Grid lines UP

12" (30,5 cm) inside panel.

Flush

Flush at opposite corner edge

Fig. B

(2) Nails

Flush

48" (122 cm)

Flush

6" (15 cm) edges of panel

96" (244 cm)

151" (385,5 cm)

Fig. C

151" (385,5 cm)

13

PARTS REQUIRED:

x95   2" (5 cm)

x1
5/8 x 48" x 96"
(1,6 x 122 x 244 cm)

x1
5/8 x 20-5/8 x 96"
(1,6 x 52,4 x 244 cm)

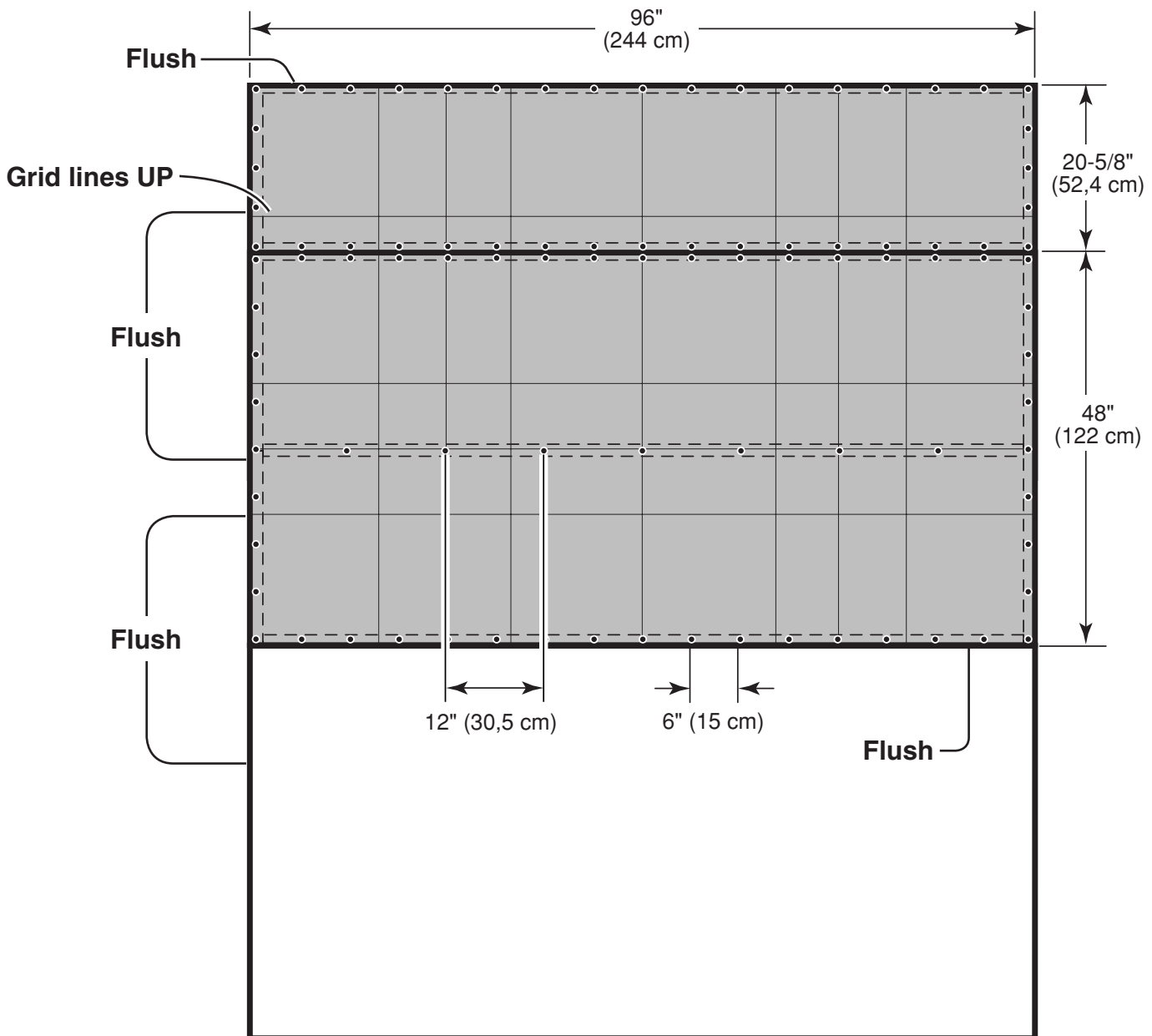**5** Continue installing panels with rough side up (painted grid lines).

6 Use a chalk line or grid lines on panels for 2" nails 6" apart on edges and 12" apart inside panel.   .
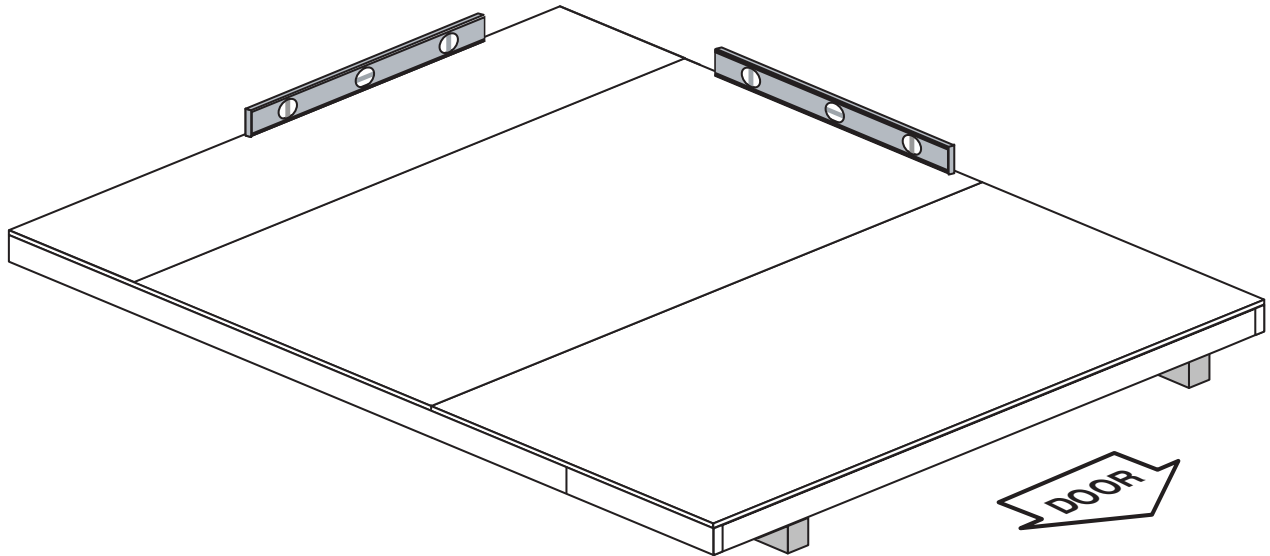
FINISH

**7** You have finished installing your floor panels.

96"
(244 cm)

Flush

Grid lines UP

20-5/8"
(52,4 cm)

Flush

48"
(122 cm)

Flush

12" (30,5 cm)   6" (15 cm)

Flush

⚠ *IMPORTANT!*

STOP! **Check the floor frame is level after installing floor panels. Re-level if needed.**
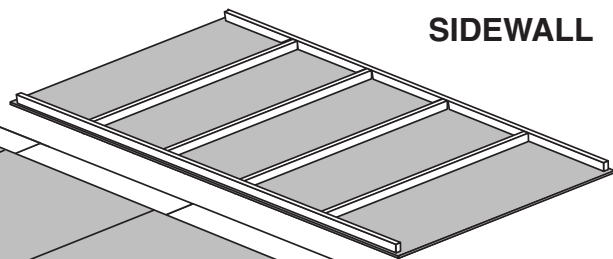
DOOR

• **The floor should be used as a stable work surface for wall construction.**

HINT: • **Organize your assembly procedure during the build process to avoid over-handling of the walls.**
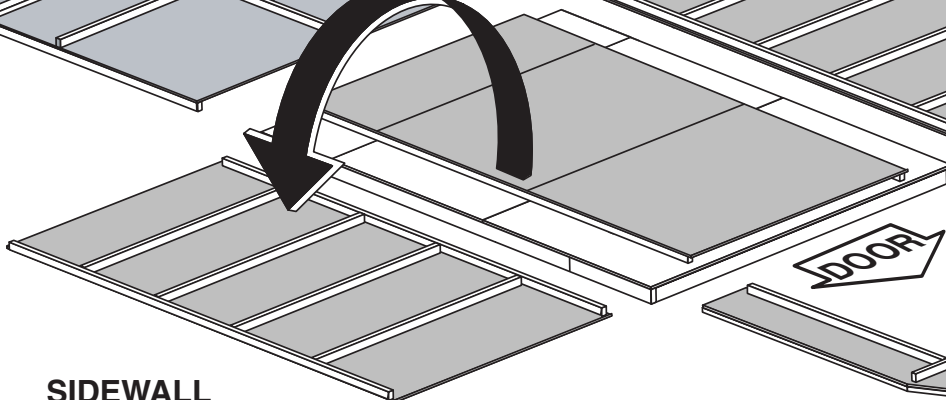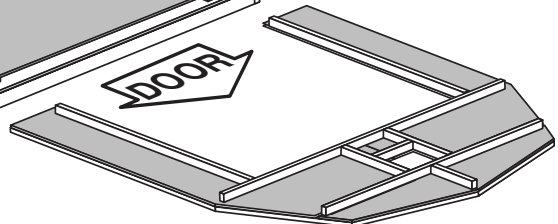
BACKWALL
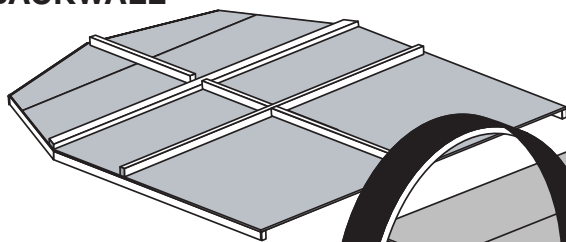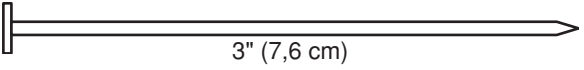
SIDEWALL

SIDEWALL

DOOR

FRONTWALL

PARTS REQUIRED:

x2   3" (7,6 cm)

x1   **NK**
2 x 3 x 48" (5 x 7,6 x 144 cm)

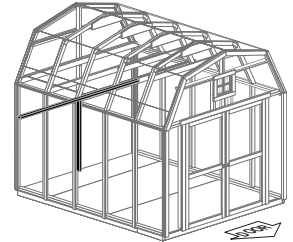**x1**   **PT**
2 x 3 x 96" (5 x 7,6 x 243,8 cm)
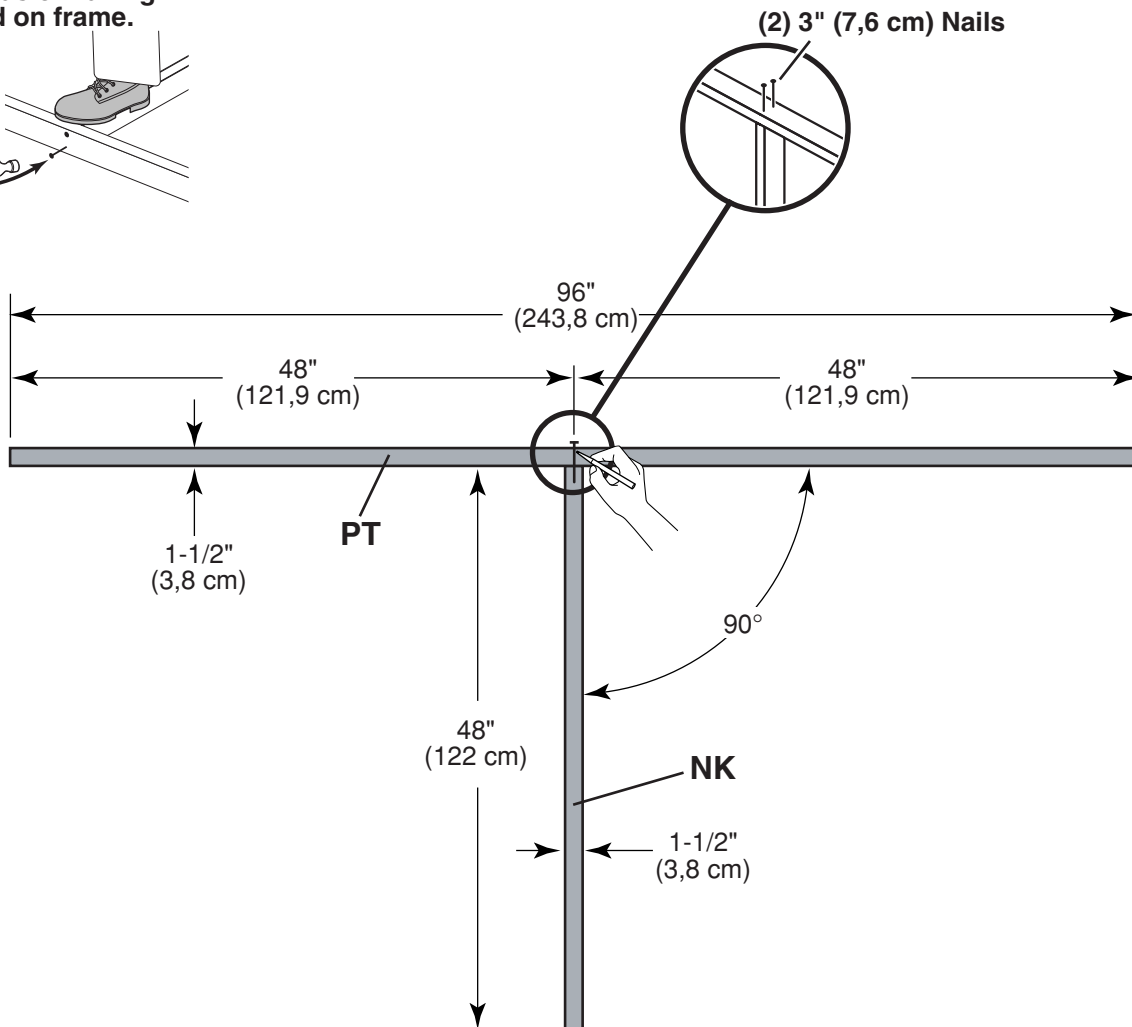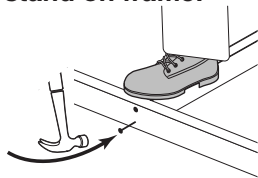
✓**BEGIN**

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

2   Nail using two 3" nails at connection.

HINT:
For easier nailing
stand on frame.

(2) 3" (7,6 cm) Nails

96"
(243,8 cm)

48"
(121,9 cm)

48"
(121,9 cm)

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

PT

90°

48"
(122 cm)

NK

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

BACK WALL FRAME

PARTS REQUIRED:

x2 ▷〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰〰▷
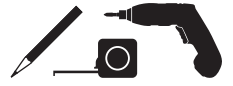3" (7,6 cm)
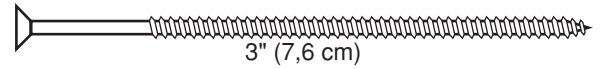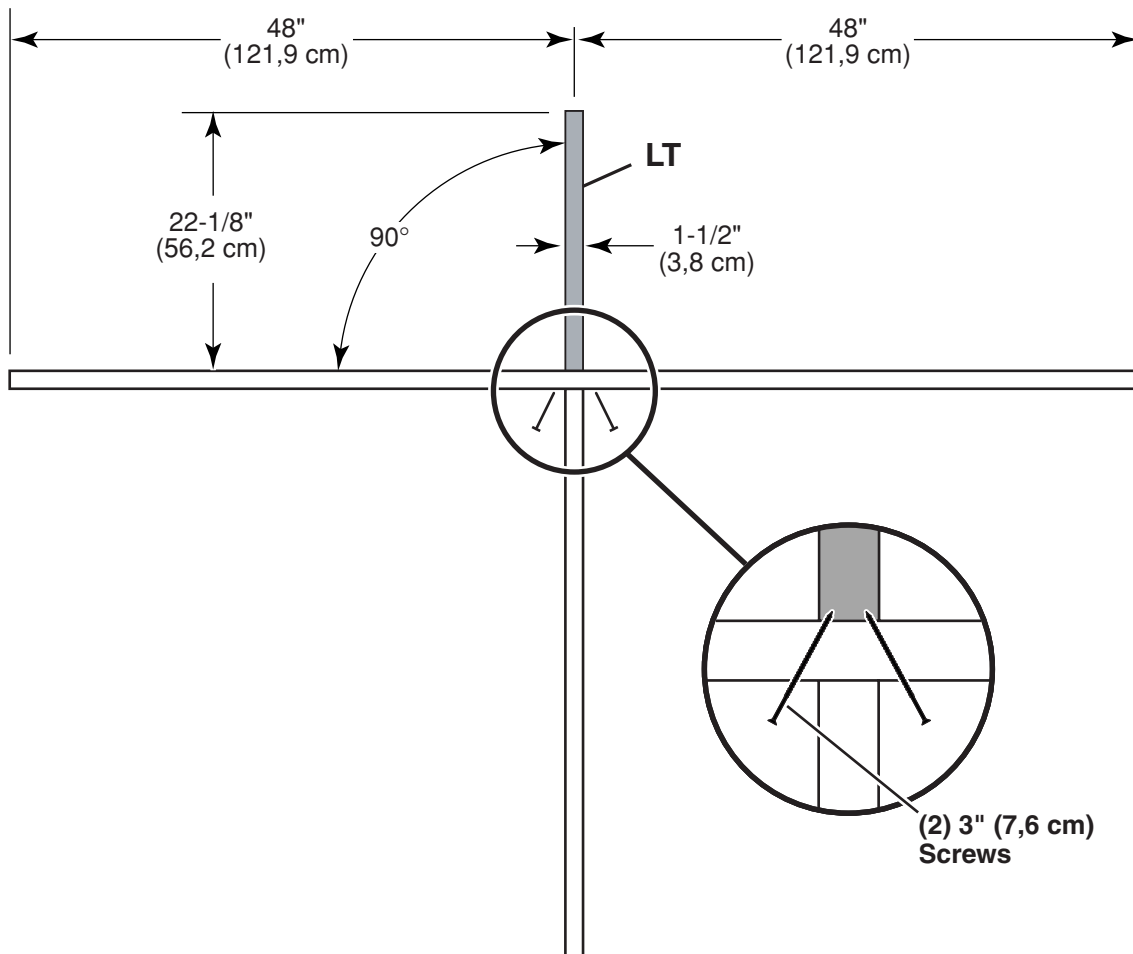
x1 | LT |
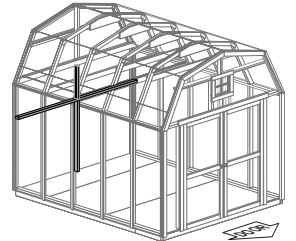2 x 3 x 22-1/8" (5 x 7,6 x 56,2 cm)

3 Orient parts on edge on floor as shown.

4 Use two 3" screws at middle connection.

FINISH

5 You have finished building your back wall frame.

48"
(121,9 cm)

48"
(121,9 cm)

LT

22-1/8"
(56,2 cm)

90°

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

**(2) 3" (7,6 cm)
Screws**

17

BACK WALL PANELS

PARTS REQUIRED:

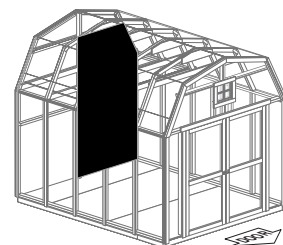**x24** 1-1/4" (3,2 cm)

x1 LEFT

x1 RIGHT
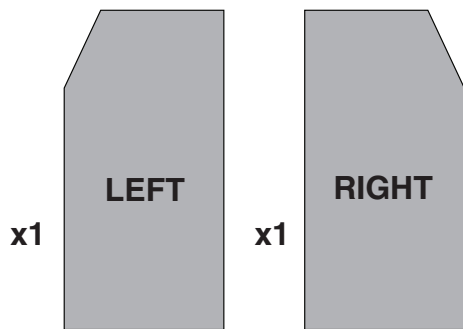
x2 OB
2 x 3 x 72-5/8" (5 x 7,6 x 184,5 cm)

x1 OO
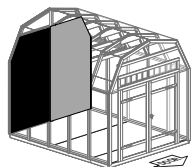2 x 3 x 69" (5 x 7,6 x 175,3 cm) **TEMPORARY SUPPORT**

✓BEGIN

1 Place **OB** on floor. ⚠ **Place the left back wall panel primed side down onto OB (Fig. A) and flush to panel edges as shown.**

2 Secure flush to edges using twelve 1-1/4" (3 cm) screws 6" apart.

3 Repeat Steps 1-2 to assemble the right back wall panel.

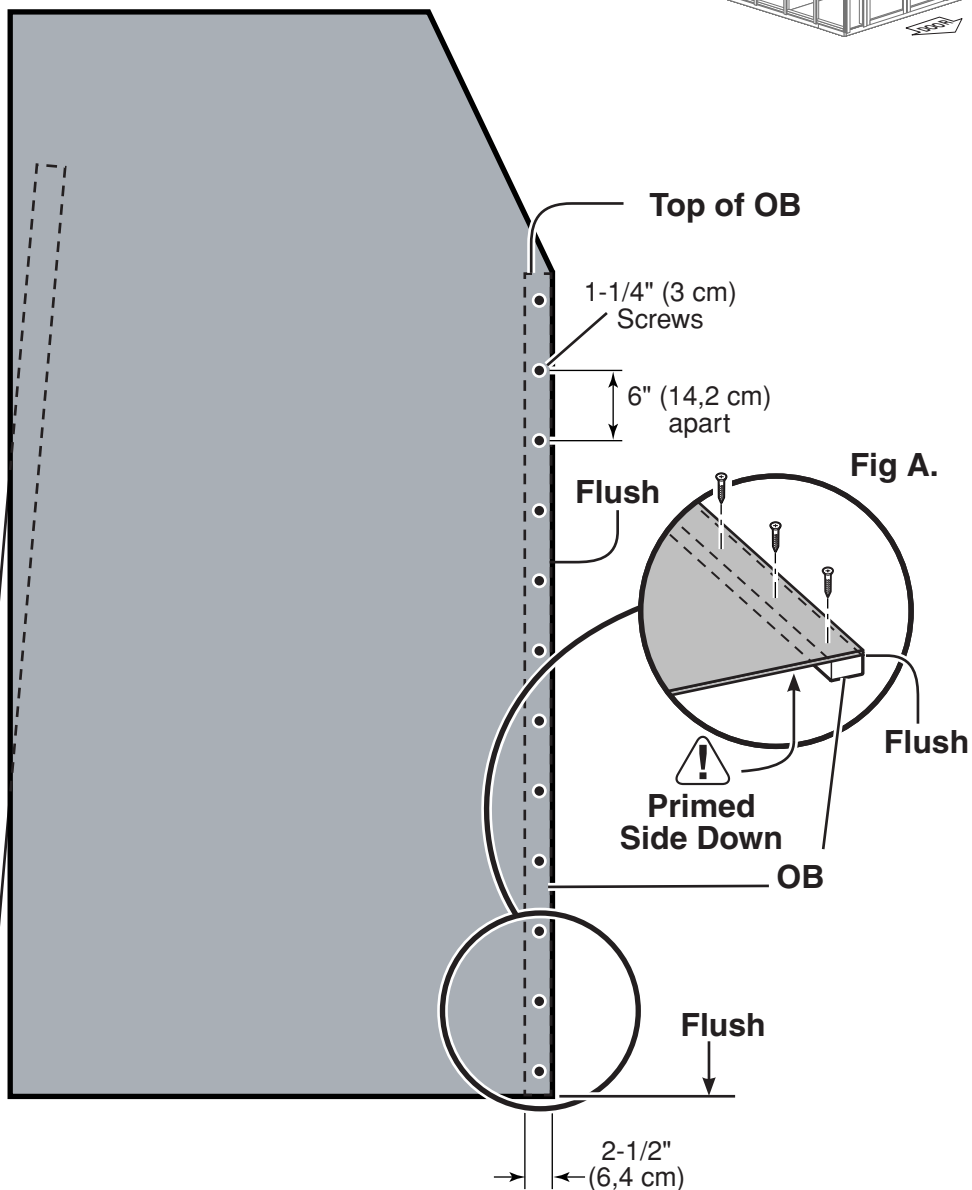**FINISH**

4 You have finished building your back wall panels.

Use 2 x 3 for temporary support

Top of OB

1-1/4" (3 cm) Screws

6" (14,2 cm) apart

Flush

Fig A.

Flush

⚠ **Primed Side Down**

OB

Flush

2-1/2" (6,4 cm)

PARTS REQUIRED:

x6 1-1/4" (3,2 cm)

x1 | OO |
2 x 3 x 69" (5 x 7,6 x 175,3 cm) **TEMPORARY SUPPORT**

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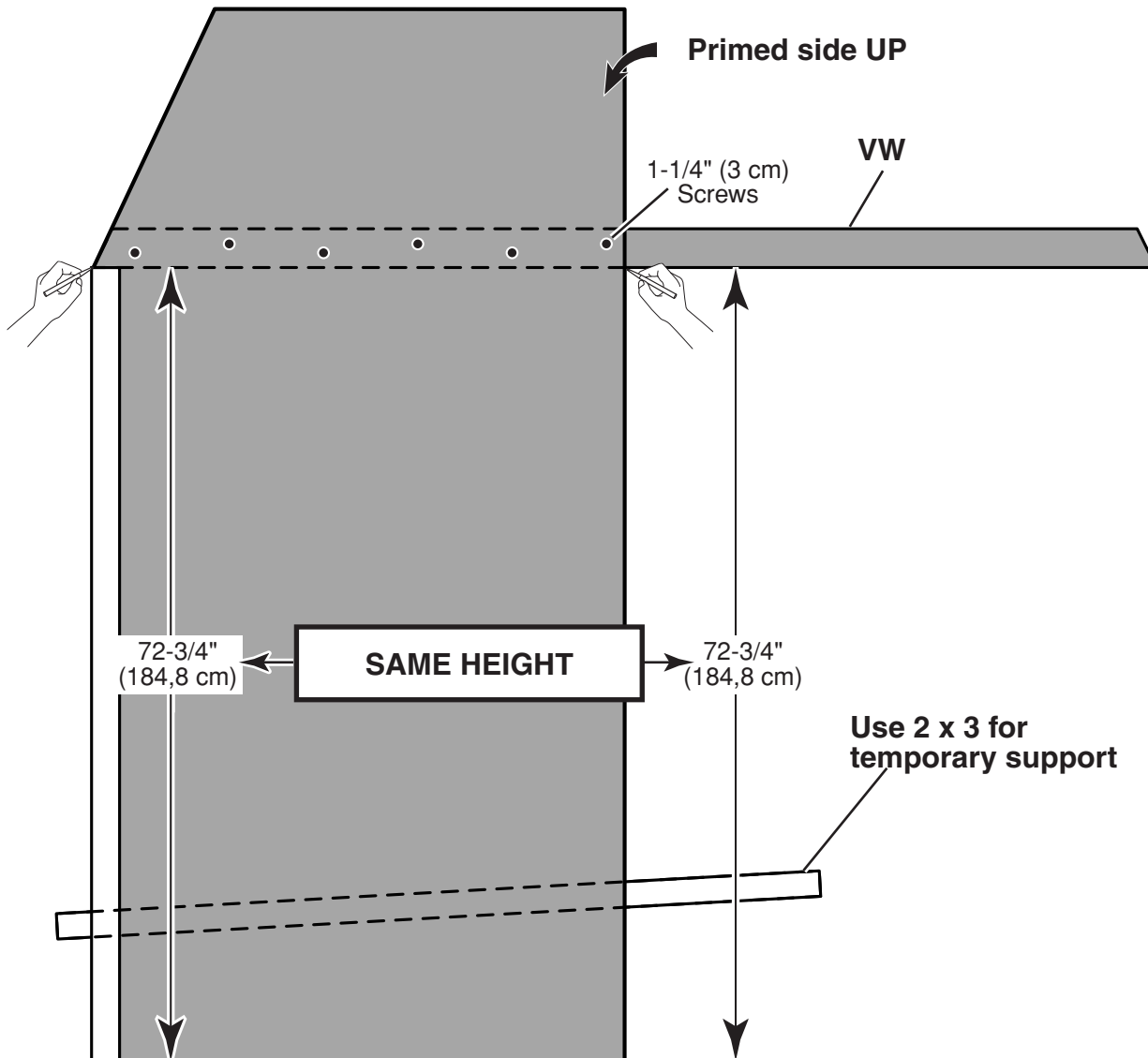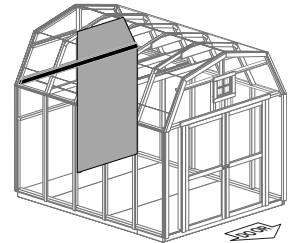1 x 4 x 96" (2,5 x 10 x 243,8 cm)

√**BEGIN**

1 Place **VW** on floor.

⚠ **Place the left back wall panel primed side up onto VW as shown.**

Measure and mark for correct placement.

2 Secure using six 1-1/4" (3 cm) screws as shown.
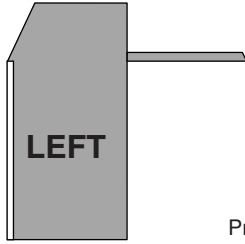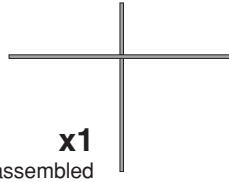
Continue to build the back wall

Primed side UP

VW

1-1/4" (3 cm)
Screws

72-3/4"
(184,8 cm) ← **SAME HEIGHT** → 72-3/4"
(184,8 cm)

**Use 2 x 3 for
temporary support**

PARTS REQUIRED:

x1
DU
2 x 3 x 36" (5 x 7,6 x 91,4 cm)

LEFT
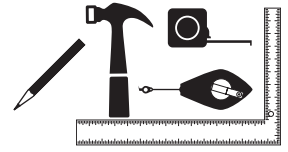**x1**
Pre-assembled

x1
Pre-assembled
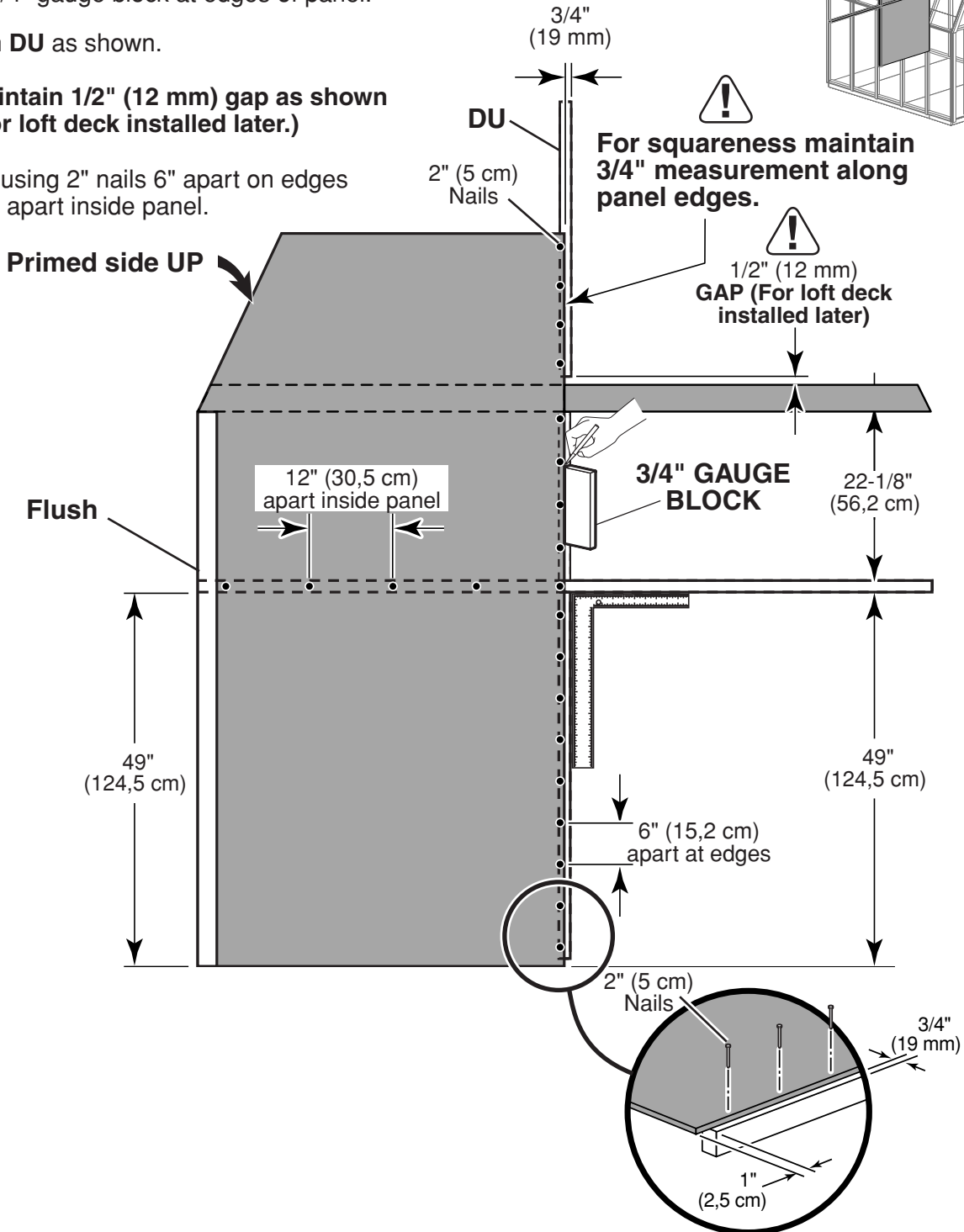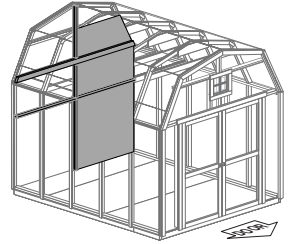
x21 2" (5 cm)

GAA
3/4" GAUGE BLOCK

3 Place **LEFT** panel on BACK WALL FRAME as shown with primed side facing up.

Use a 3/4" gauge block at edges of panel.

4 Position **DU** as shown.

⚠ **Maintain 1/2" (12 mm) gap as shown (For loft deck installed later.)**

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

Primed side UP

3/4" (19 mm)

DU

2" (5 cm) Nails

⚠ **For squareness maintain 3/4" measurement along panel edges.**

⚠ 1/2" (12 mm) **GAP (For loft deck installed later)**

Flush

12" (30,5 cm) apart inside panel

3/4" GAUGE BLOCK

22-1/8" (56,2 cm)

49" (124,5 cm)

49" (124,5 cm)

6" (15,2 cm) apart at edges

2" (5 cm) Nails

3/4" (19 mm)

1" (2,5 cm)

BACK WALL PANELS

PARTS REQUIRED:

LEFT

x1
Pre-assembled

RIGHT

x1
Pre-assembled

x6
1-1/4" (3,2 cm)

x21
2" (5 cm)
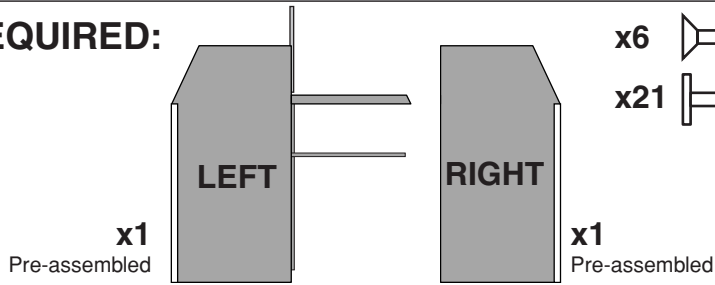
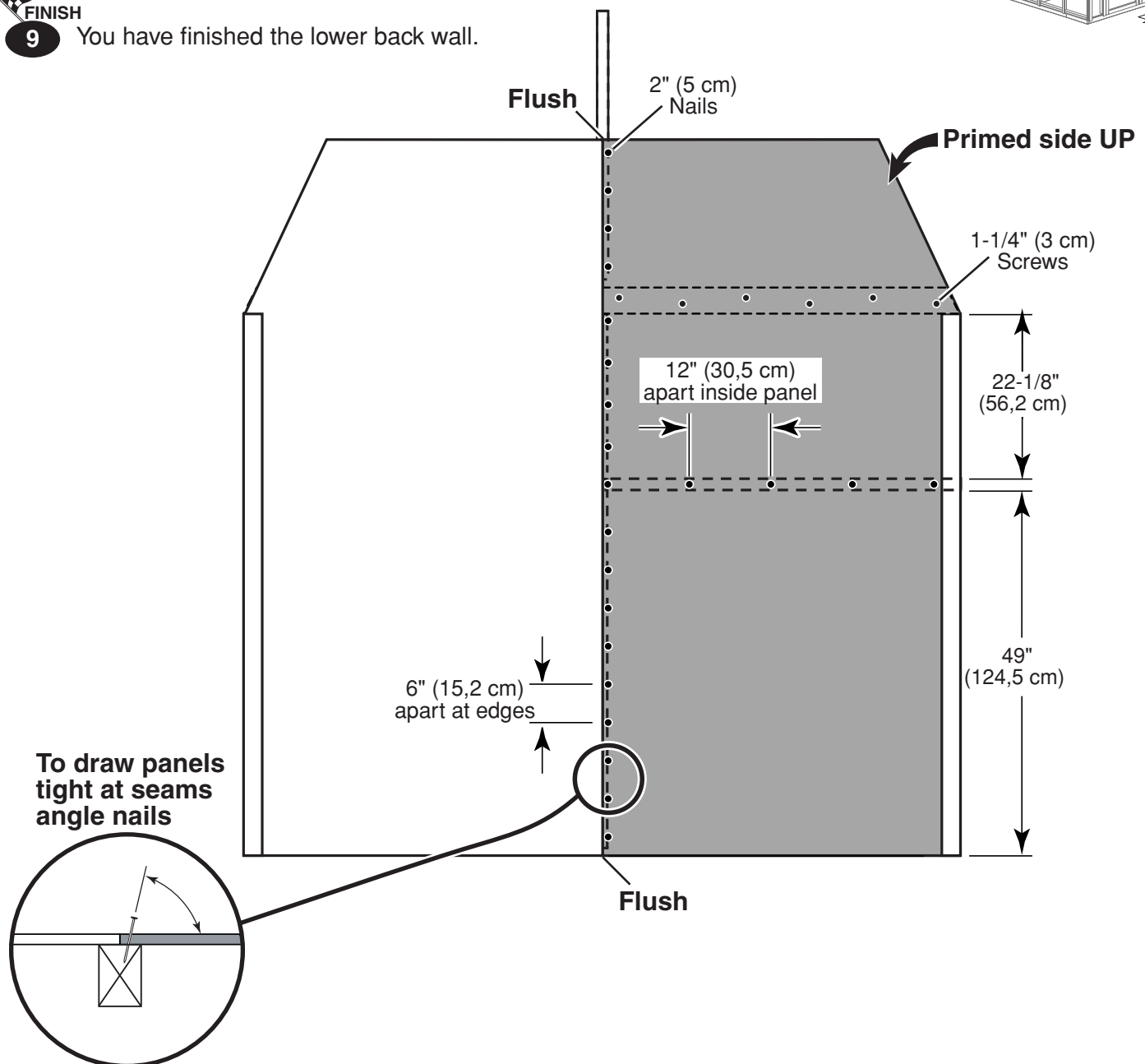
6 Place RIGHT panel on back frame as shown with primed side facing up.

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

8 Secure **VW** using six 1-1/4" (3 cm) screws as shown.
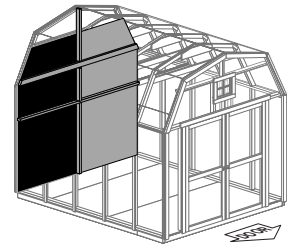
FINISH

9 You have finished the lower back wall.
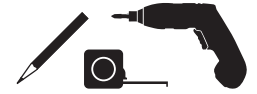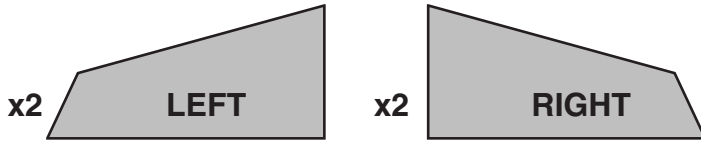
Flush

2" (5 cm)
Nails

Primed side UP

1-1/4" (3 cm)
Screws

12" (30,5 cm)
apart inside panel

22-1/8"
(56,2 cm)

6" (15,2 cm)
apart at edges

**To draw panels
tight at seams
angle nails**

49"
(124,5 cm)

Flush

21

GABLE PANELS AND TRIM

PARTS REQUIRED:

x4 NX — 2 x 3 x 35-7/16" (5 x 7,6 x 90 cm)
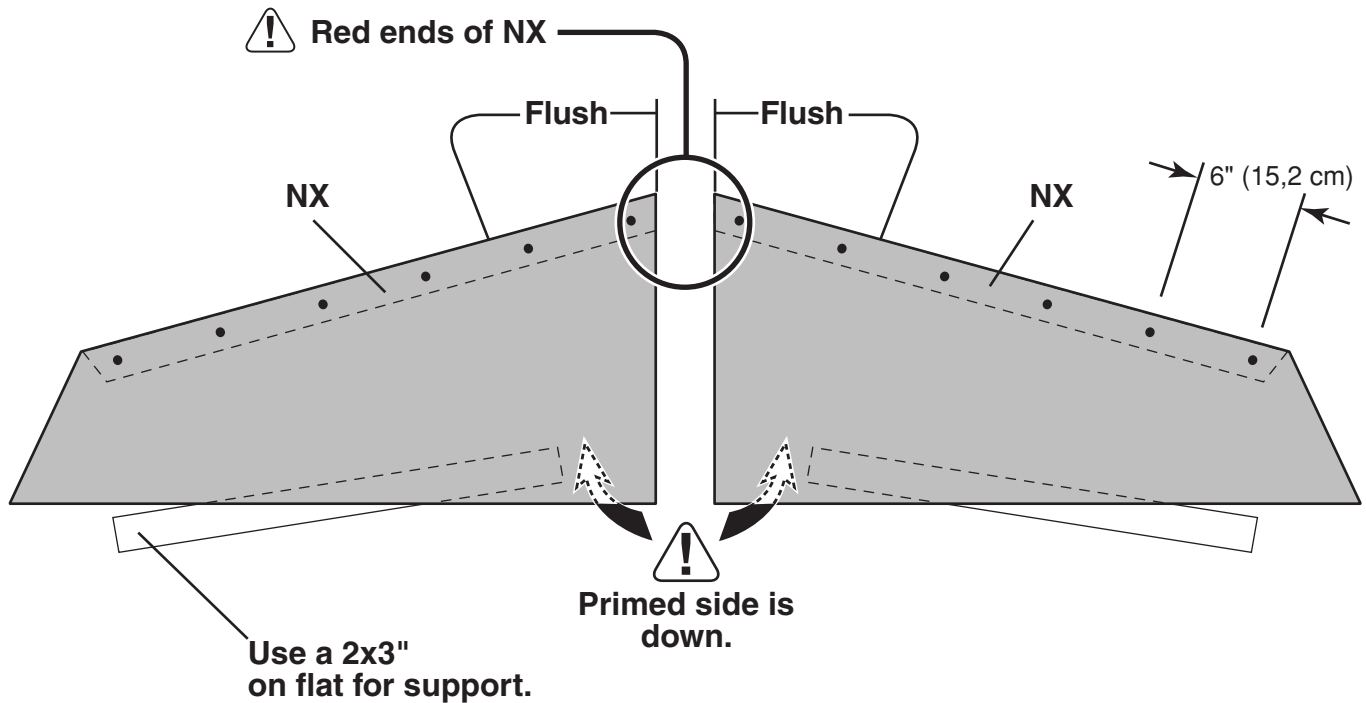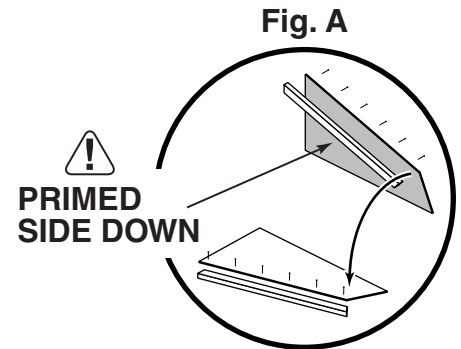
x24 1-1/4" (3 cm)

x2 LEFT   **x2** RIGHT

✓**BEGIN**

1 You will be attaching trim **NX** from the backside of the gable panels **(Fig. A)**. You will assemble **TWO RIGHT** and **TWO LEFT** assemblies.

2 Place trim **NX** on floor. ⚠ **Orient red ends to top.**

3 Place a left or right gable panel onto trim **primed side down (Fig.A).**

4 Locate trim **NX** flush to edges and secure with six 1-1/4" screws 6" apart.

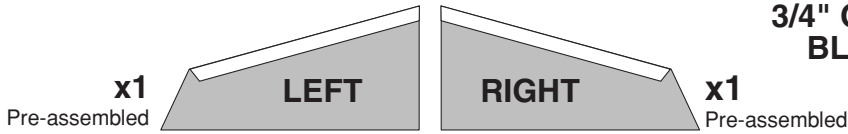**5** Repeat steps 1-4 to assemble two left and two right assemblies.
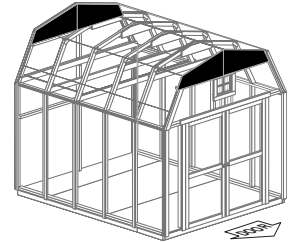
FINISH

6 You have finished building two sets of gable panel assemblies. Set one left and one right aside. Continue building your back wall.
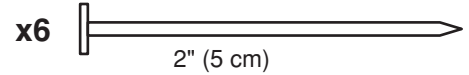
Fig. A

⚠ **PRIMED SIDE DOWN**

⚠ **Red ends of NX**

Flush — **Flush**

NX — **NX**

6" (15,2 cm)

⚠ **Primed side is down.**

Use a 2x3" on flat for support.

BACK WALL GABLE PANELS INSTALL

PARTS REQUIRED:

x6 |——————————————— 2" (5 cm)

GAA
3/4" GAUGE BLOCK

x1
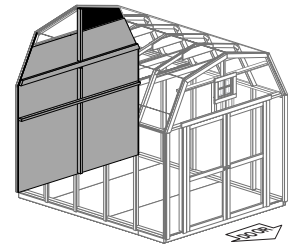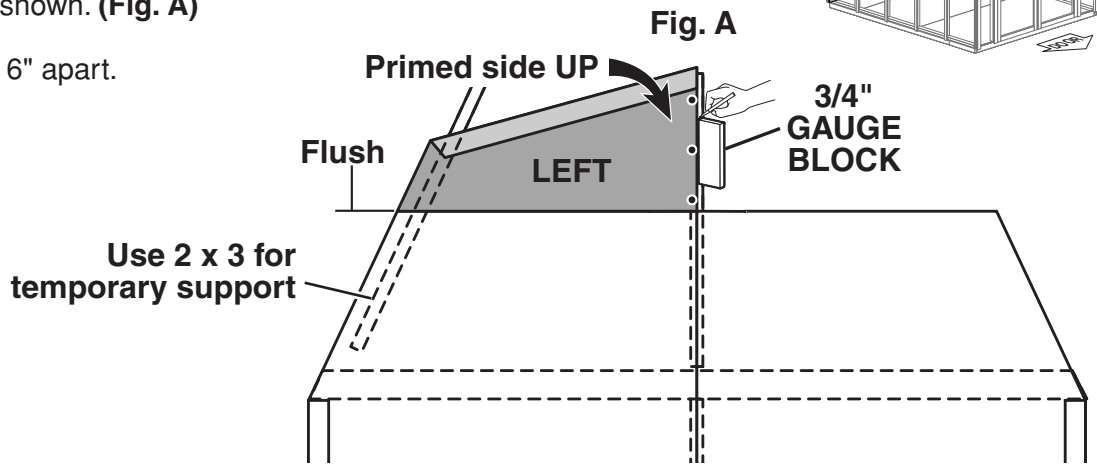Pre-assembled **LEFT**   **RIGHT** x1
Pre-assembled

✓**BEGIN**

1 Position lower back wall and LEFT BACK GABLE **primed side UP** on floor.
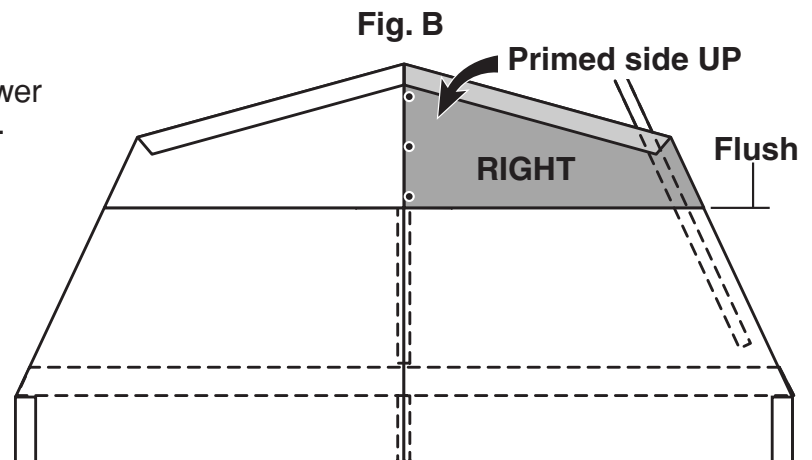
Place flush to top and use a 3/4" gauge block at edge of panel as shown. **(Fig. A)**

Secure with 2" nails 6" apart.

Fig. A

Primed side UP

3/4" GAUGE BLOCK

Flush

LEFT

Use 2 x 3 for temporary support

Fig. B

Primed side UP

2 Place RIGHT BACK GABLE flush to lower back wall and left back gable as shown. **(Fig. B)**

Secure with 2" nails 6" apart.

Flush

RIGHT
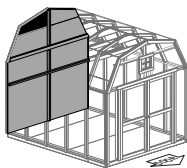
Carefully flip the back wall over on the floor.

⚠ Do not lift from the top of the wall.

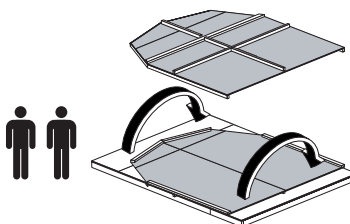# BACK WALL GABLE TRIM

PARTS REQUIRED:

x2 NY
2 x 3 x 34-1/8" (5 x 7,6 x 86,7 cm)

x12 1-1/4" (3 cm)
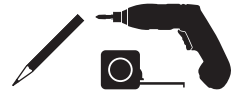
3 Place **NY** between existing trim under backwall primed side down and secure with 1-1/4" screws 6" apart. Repeat on other side.

FINISH

4 You have finished building your backwall.

Two points contact each other

⚠ Primed side is down.

NY

1-1/4" (3 cm) Screws

NY

6" (15 cm) Apart

Carefully slide the back wall off the floor.

PARTS REQUIRED:

x1 | LG |
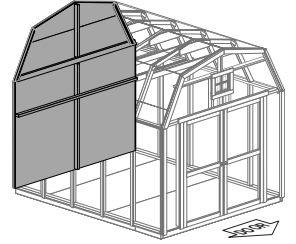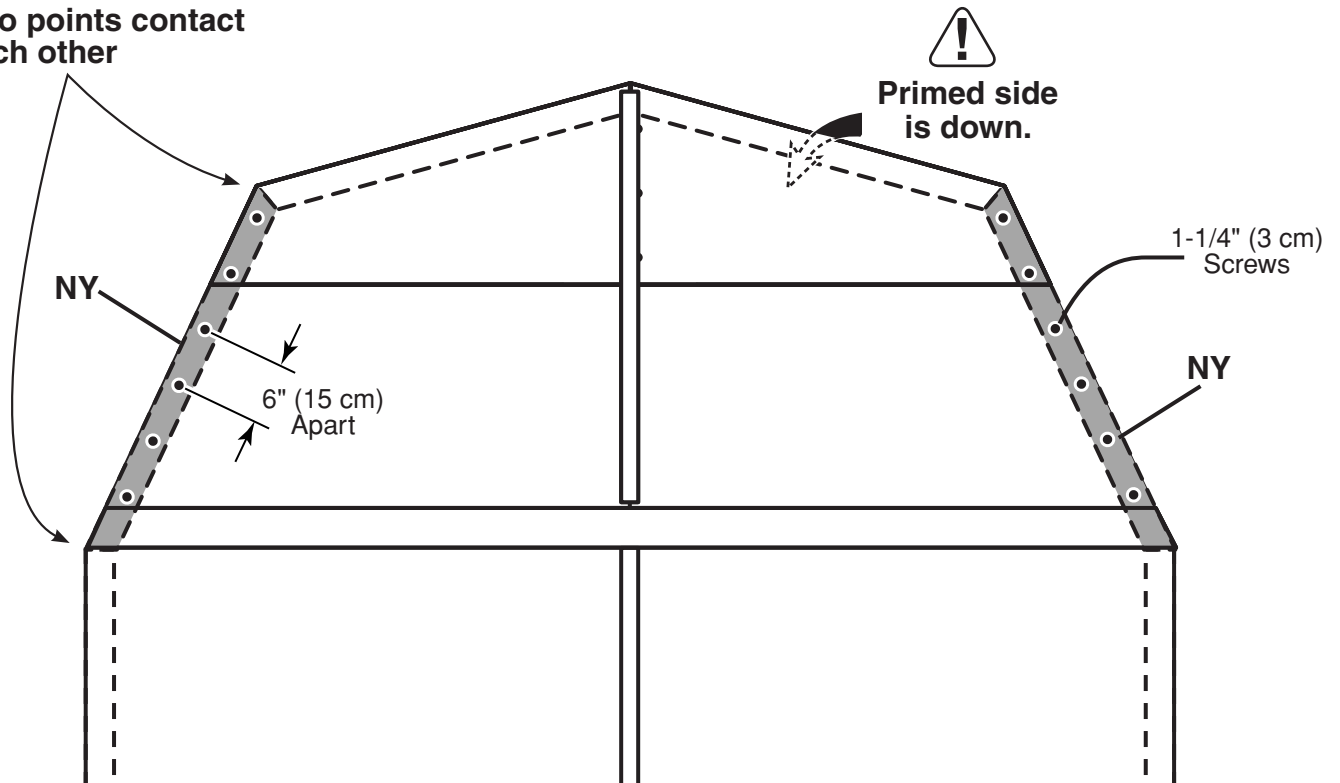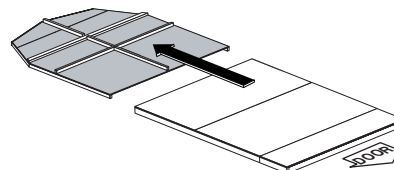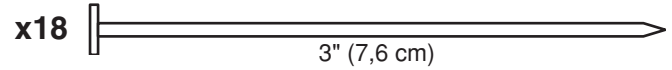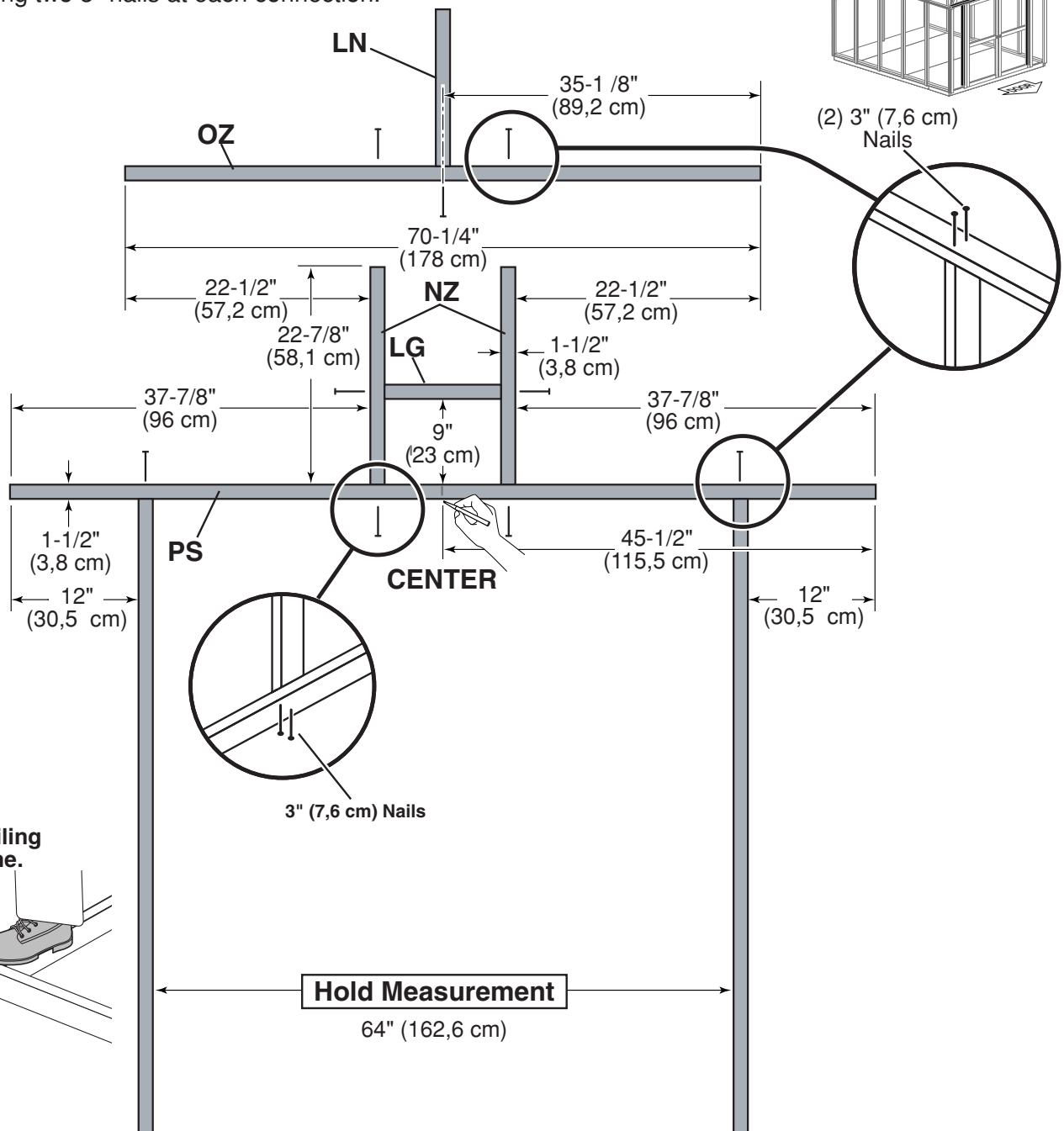2 x 3 x 12-1/4" (5 x 7,6 x 31 cm)

x1 | LN |
2 x 3 x 16-1/2" (5 x 7,6 x 42 cm)

x2 | NZ |
2 x 3 x 22-7/8" (5 x 7,6 x 58,1 cm)

x3 | OZ |
2 x 3 x 70-1/4" (5 x 7,6 x 178 cm)

x1 | PS |
2 x 3 x 91" (5 x 7,6 x 231 cm)

x18 3" (7,6 cm)

✓**BEGIN**

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

2 Nail using two 3" nails at each connection.
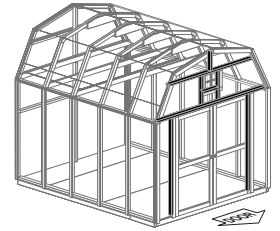
LN

35-1 /8"
(89,2 cm)

OZ

(2) 3" (7,6 cm)
Nails

70-1/4"
(178 cm)

22-1/2"
(57,2 cm)

NZ

22-1/2"
(57,2 cm)

22-7/8"
(58,1 cm)

LG

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

37-7/8"
(96 cm)

37-7/8"
(96 cm)

9"
(23 cm)

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

PS

CENTER

45-1/2"
(115,5 cm)

12"
(30,5 cm)

12"
(30,5 cm)

3" (7,6 cm) Nails

HINT:
For easier nailing
stand on frame.

Hold Measurement

64" (162,6 cm)

25

FRONT WALL PANELS

PARTS REQUIRED:

x24 1-1/4" (3,2 cm)

x1

x1
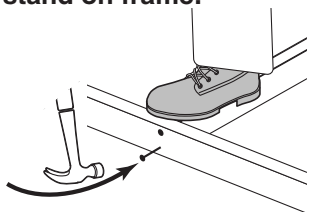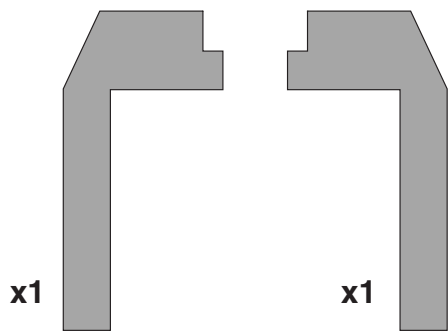
x2 OB
2 x 3 x 72-5/8" (5 x 7,6 x 184,5 cm)
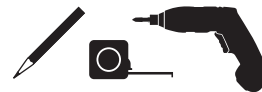
BEGIN

1 Place **OB** on floor. ⚠ **Place the right front wall panel primed side down onto OB (Fig. A) and flush to panel edges as shown.**

2 Secure flush to edges using twelve 1-1/4" (3 cm) screws 6" apart.

3 Repeat Steps 1-2 to assemble the left front wall panel.
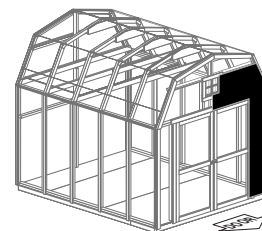
FINISH
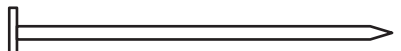
4 You have finished building your front wall panels.

Fig A

⚠
Primed Side Down

OB

1-1/4" (3 cm) Screws

6" (14,2 cm) apart

72-5/8" (184,5 cm)

Flush

Use 2 x 3 for temporary support

2-1/2" (6,4 cm)

26
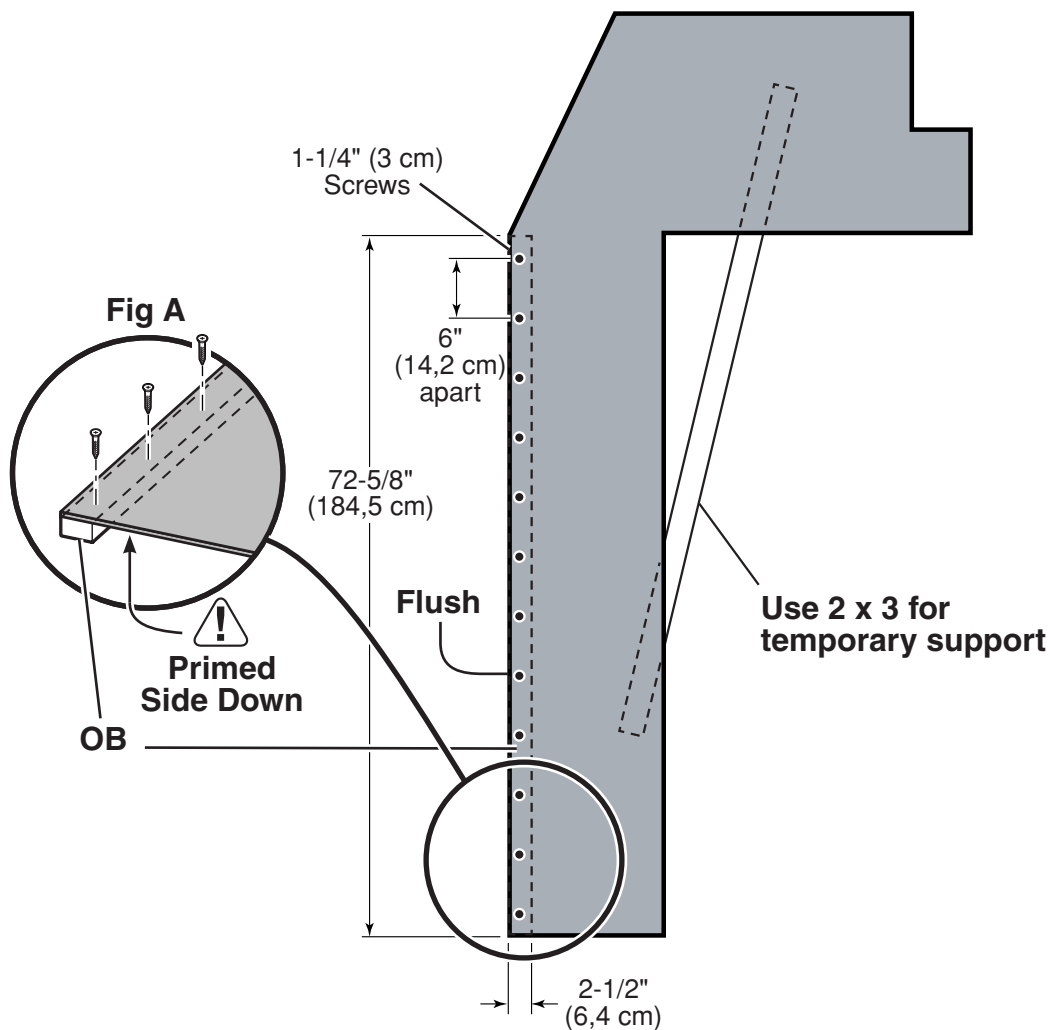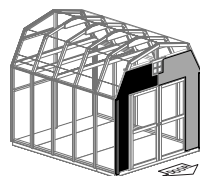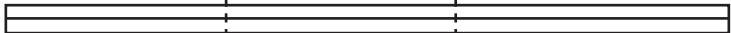
FRONT WALL PANELS

PARTS REQUIRED:

x6 ⊏══════════════════▷ 2" (5 cm)

x25 ┣━━━━━━━━━━━━━━━━━▷ 2" (5 cm)

x1 ┣━━━━━━━━━━━━━━━━━━━━━━━━┫ ⌐
96" (244 cm) **Z-STRIP** - Cut into two 29" (73,7 cm) lengths
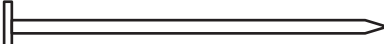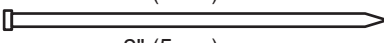
✓**BEGIN**

1 Place right panel on front frame as shown with primed side facing up.

2 Measure and cut Z-Strip into two **29"** lengths.

3 Position Z-strip as shown. Secure Z-strip using six 2" finish nails 6" apart.

4 Secure the rest of panel using (16) 2" nails 6" apart.

Z-strip

2" (5 cm) Finish nails

OZ

29" (73,7 cm)

1" (2,5 cm)

Primed side UP

2" (5 cm) Nails

Center

6" (15,2 cm) apart

Flush

6" (15,2 cm) apart

2" (5 cm) Nails

3/4" (19 cm)

1" (2,5 cm)

27
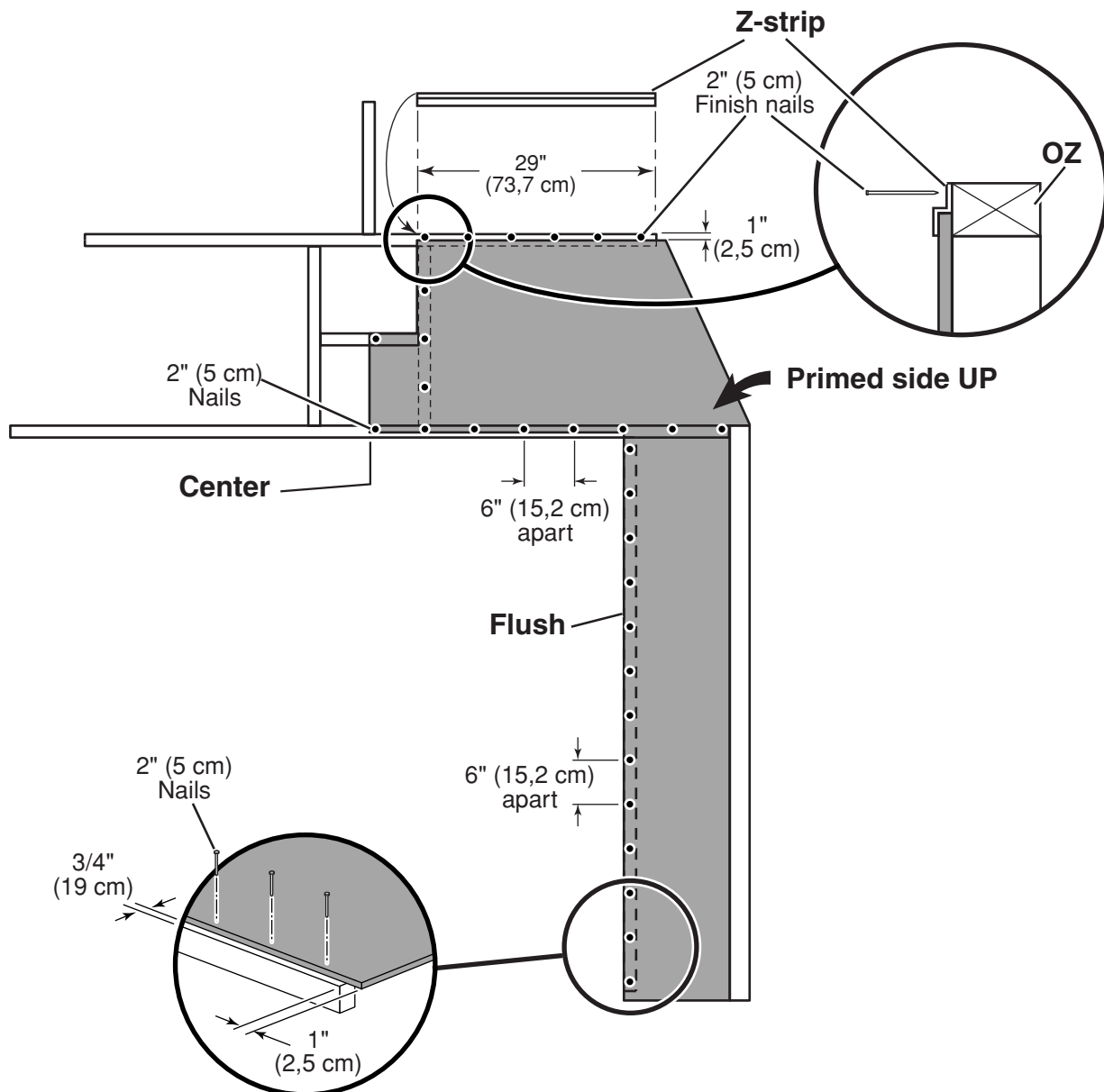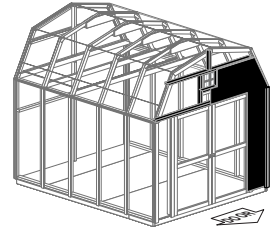
FRONT WALL PANELS

PARTS REQUIRED:

x25 | 2" (5 cm)

x6 | 2" (5 cm)

x1 | 96" (244 cm) **Z-STRIP** - Cut into two 29" (73,7 cm) lengths

5 Place left panel on front frame flush to right panel as shown with primed side facing up.

6 Repeat Steps 3-4.

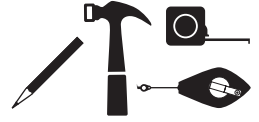**FINISH**

7 You have finished the lower front wall.
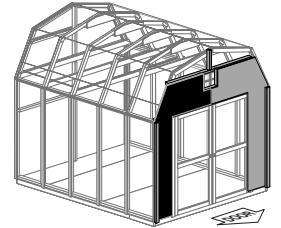
Angle nails to draw panels tight at seams

Z-Strip

2" (5 cm) Finish nails

OZ

29" (73,7 cm)

1" (2,5 cm)

Primed side UP

6" (15,2 cm) apart

2" (5 cm) Nails

Flush

6" (15,2 cm) apart

2" (5 cm) Nails

3/4" (19 cm)

1" (2,5 cm)
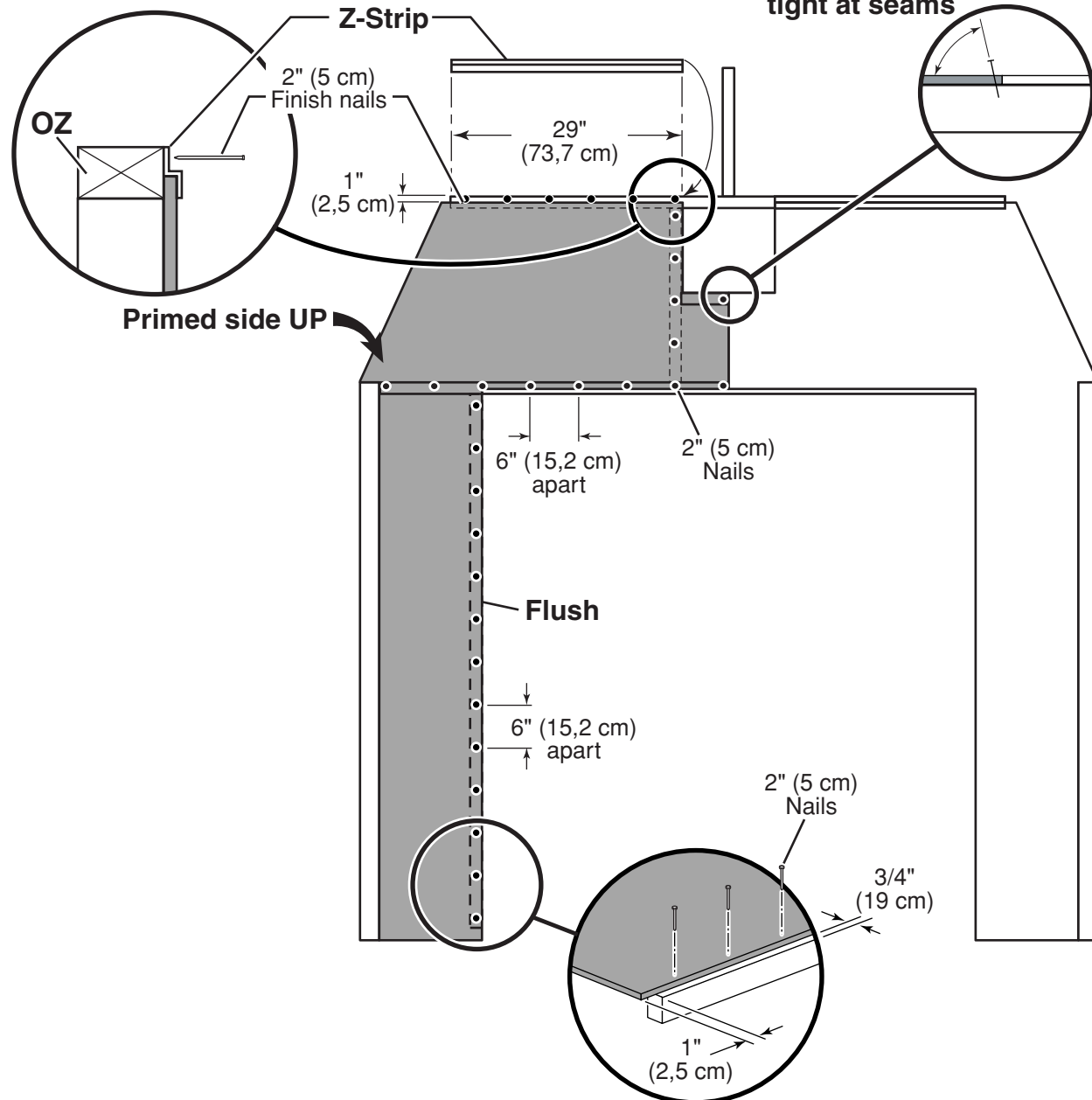
FRONT WALL GABLE PANELS

PARTS REQUIRED:

GAA
3/4" GAUGE BLOCK

x16
2" (5 cm)

x1
Pre-assembled
LEFT   **RIGHT**
x1
Pre-assembled
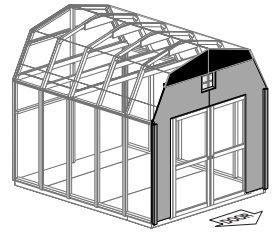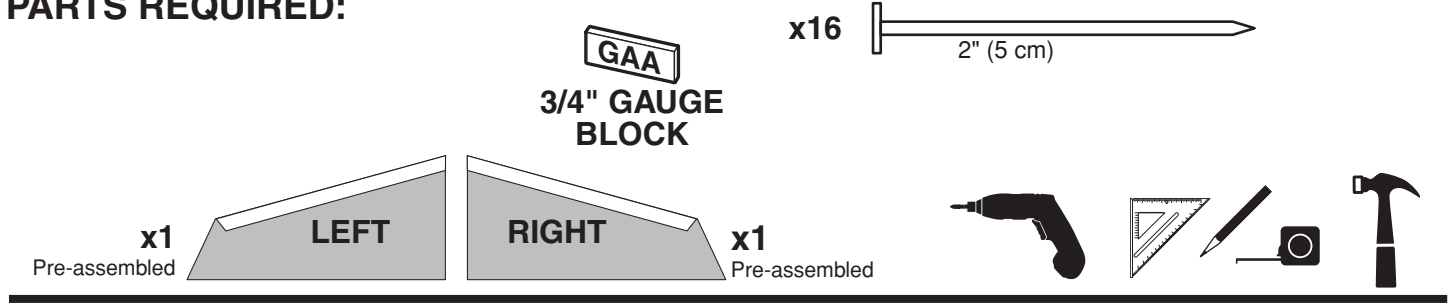
✓**BEGIN**

1 Place the left gable panel primed side up onto wall frame and Z-strip and onto **LN**.

Nail with 2" nails 6" apart.

Flush

3/4" GAUGE BLOCK

LEFT

6" (15 cm) Apart
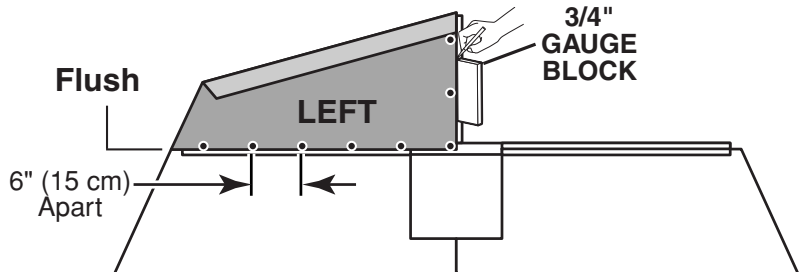
2 Place right gable panel primed side up onto wall frame and Z-strip and onto **LN** and flush to left gable panel.

Nail with 2" nails 6" apart.

RIGHT

Flush

6" (15 cm) Apart
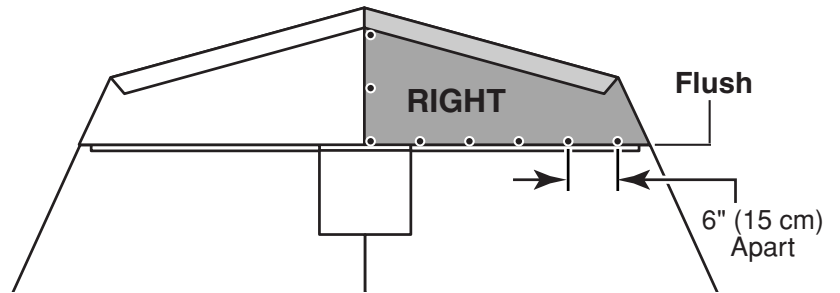
Carefully flip the front wall off the floor.

DOOR
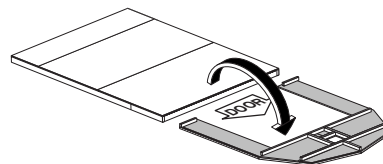
FRONT WALL GABLE TRIM

PARTS REQUIRED:

x14 1-1/4" (3,2 cm)

x2 NY
2 x 3 x 34-1/8" (5 x 7,6 x 86,7 cm)

4 Place **NY** onto front wall between existing trim, and secure from inside with 1-1/4" screws 6" apart.

FINISH

5 You have finished building your front wall.

Two points contact each other

NX   NX

NY   NY

6" (15 cm)
Apart

OB   OB
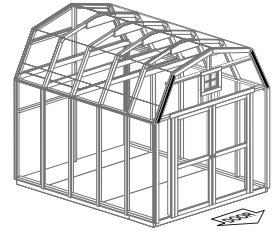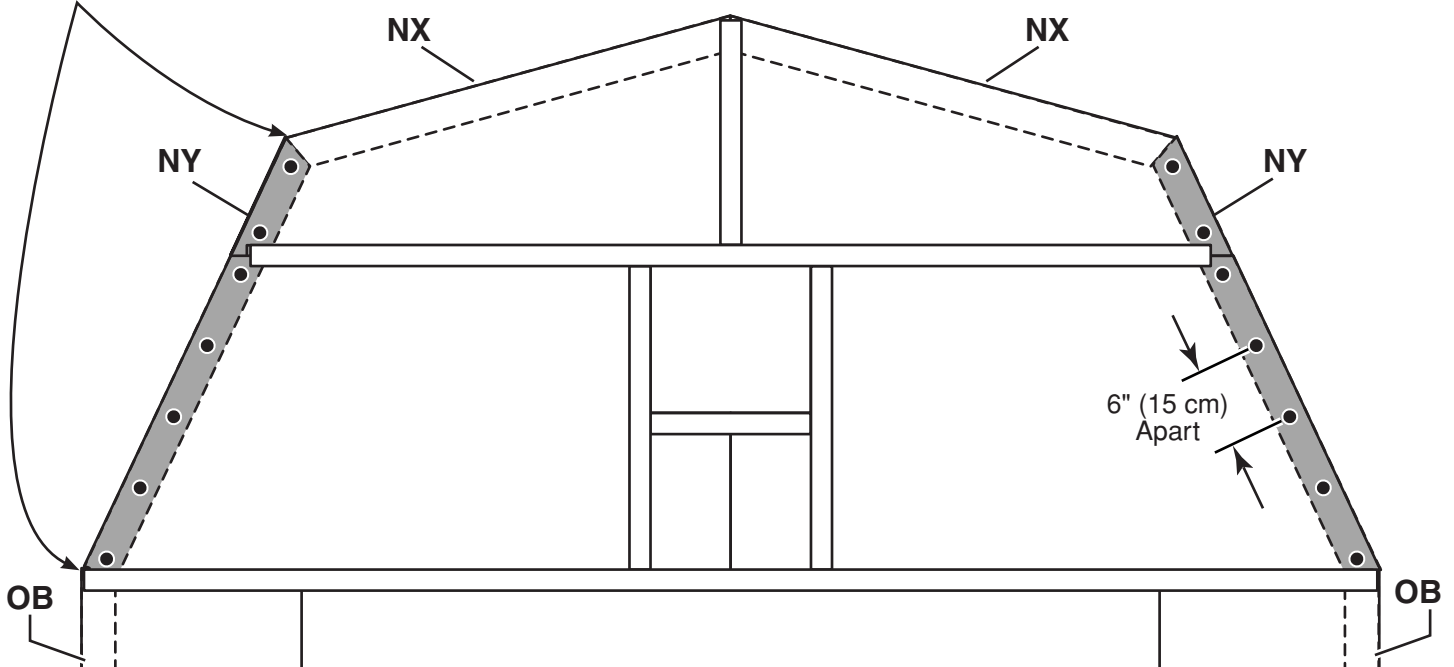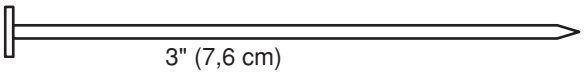
SIDE WALL FRAMES

PARTS REQUIRED:

x4 | NH
2 x 3 x 46-1/4" (5 x 7,6 x 117,5 cm)

x8 | OU
2 x 3 x 68-3/4" (5 x 7,6 x 174,6 cm)

x4 | OZ
2 x 3 x 70-1/4" (5 x 7,6 x 178 cm)

x40 3" (7,6 cm)
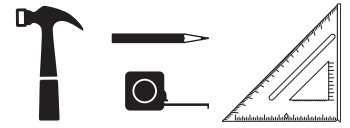
√**BEGIN**

1 Orient parts as shown on flat surface. Measure and mark each dimension from end of boards.

⚠ **IMPORTANT! You will build two walls the same.**

2 Use two 3" nails at each mark, and toenail at seam.

3 Repeat Steps 1-2 to assemble the second wall frame.

46-1/4"
(117,5 cm)

70-1/4"
(178,4 cm)

22-1/4"
(57 cm)

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

(4) 3" (7,6 cm)
Nails

22-1/4"
(57 cm)

NH

(2) 3" (7,6 cm)
Nails

OZ

Center on marks.

OU

HINT:
For easier nailing stand on frame.

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

OZ

NH

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

22-1/4"
(57 cm)

24"
(61 cm)

24"
(61 cm)

24"
(61 cm)

22-1/4"
(57 cm)

70-1/4"
(178,4 cm)

46-1/4"
(117,5 cm)

SIDE WALL PANELS

PARTS REQUIRED:

x40 ——————————————
2" (5 cm)

x2 3/8 x 48 x 72"
(1 x 122 x 183 cm)

GAA
3/4"
GAUGE BLOCK
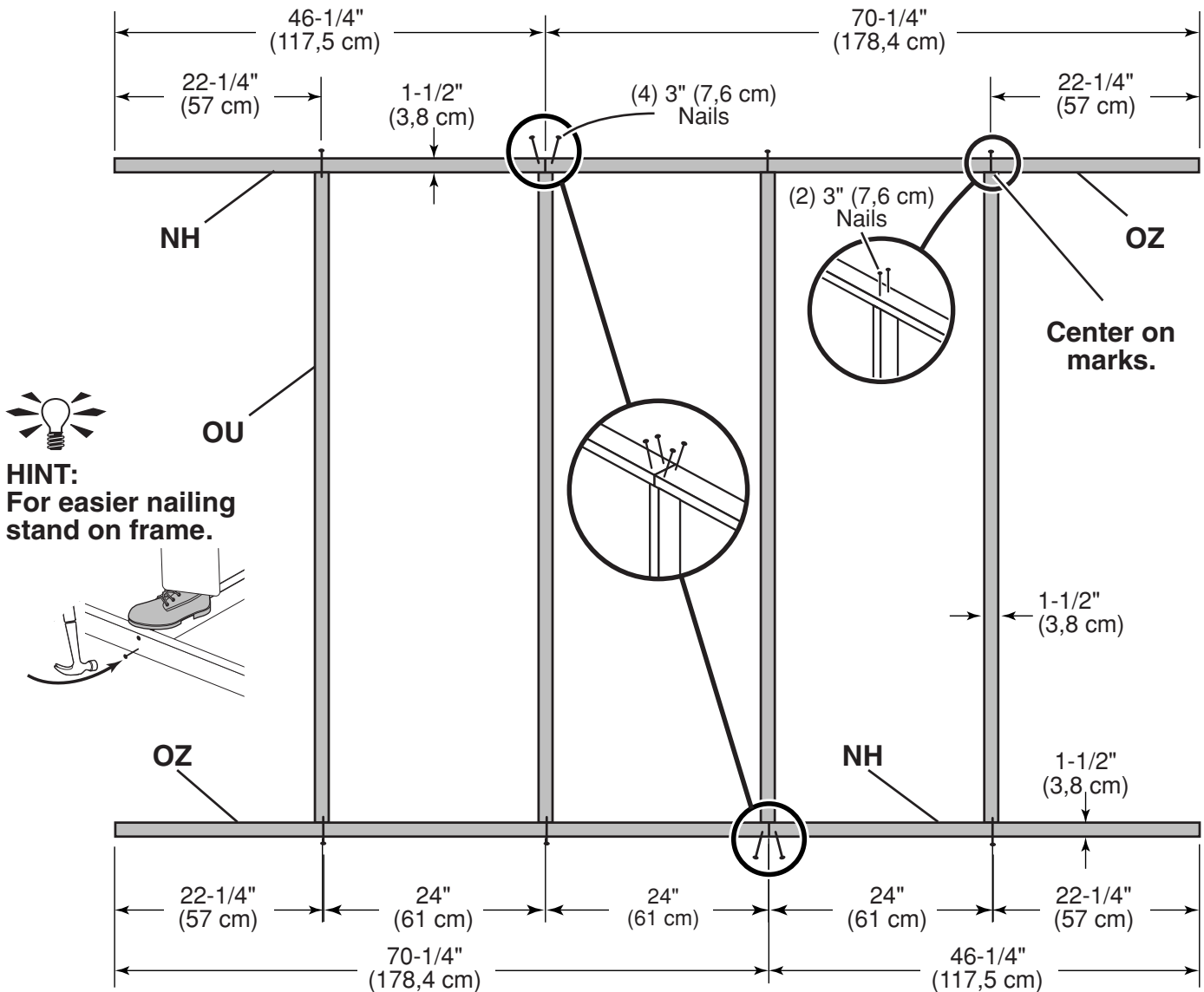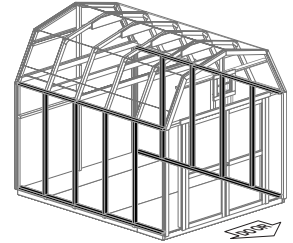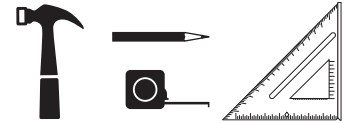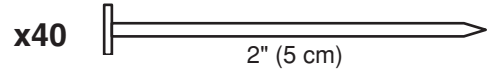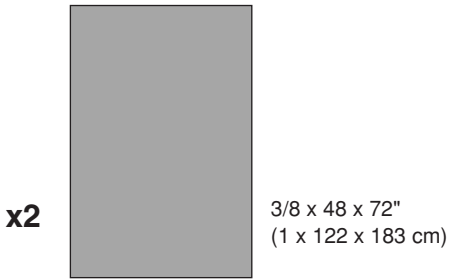
⚠ **Ensure your wall frame is square by installing one panel and squaring frame.**

4 Place the **48 x 72"** panel onto wall frame with primed side up as shown. Measure and mark overhangs and top spacing. Ensure measurements result in correct dimensions for 1" bottom spacing.

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

5 Move to the opposite end. Move the studs side-to-side until you have a 3/4" measurement on the wall stud. Secure corners with a 2" nails.

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

⚠ **For squareness maintain 3/4" on stud and 5/8" at top plate.**

BEGIN HERE ➡

⚠ 5/8"
(16 mm)

There will be an overhang.
1-11/16"
(4,3 cm)

2 Nails
Fig. A

3/4" Gauge Block

6" (15 cm)

12" (30 cm)

Fig. B

1"
(2,5 cm)

24"
(61 cm)

Center on mark

1-11/16"
(4,3 cm)

2 Nails

10' x 8' SIDE WALL PANELS

PARTS REQUIRED:

x2

3/8 x 23-7/8 x 72"
(1 x 61 x 183 cm)

x2

3/8 x 48 x 72"
(1 x 122 x 183 cm)

x80

2" (5 cm)

⚠ **For squareness maintain 3/4"
side measurement and 5/8"
measurement at top plate.**

5/8"
(16 mm)

7 Place 48" panel on frame as shown with primed side facing up. Secure panels with two 2" nails at the upper corners.

Secure using 2" nails 6" apart on edges and 12" apart inside panels.

3/4"
(19 mm)

6" (15 cm)

12" (30 cm)

3/4" Gauge Block

**Primed
Side UP**

**To draw panels
tight at seams
angle nail.**

1"
(2,5 cm)

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

24"
(61 cm)

24"
(61 cm)

48"
(122 cm)

⚠ **Maintain 5/8"
measurement at top plate.**

8 Place **23-7/8"** panel on frame as shown with primed side facing up.

Secure using 2" nails 6" apart on edges.

Carefully flip your side wall over.

Repeat **STEPS 1-8** to assemble your second side wall.

Carefully flip your second side wall over.

1-11/16"
(4,3 cm)

5/8"
(16 mm)

**Primed
Side UP**

6" (15 cm)

1"
(2,5 cm)

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

🏁 **FINISH**

9 You have finished building both of your side walls.

33

PARTS REQUIRED:

x4 3" (7,6 cm)

x17 2" (5 cm)

x1 | OO
2 x 3 x 69" (5 x 7,6 x 175,3 cm) **TEMPORARY SUPPORT**

✓BEGIN

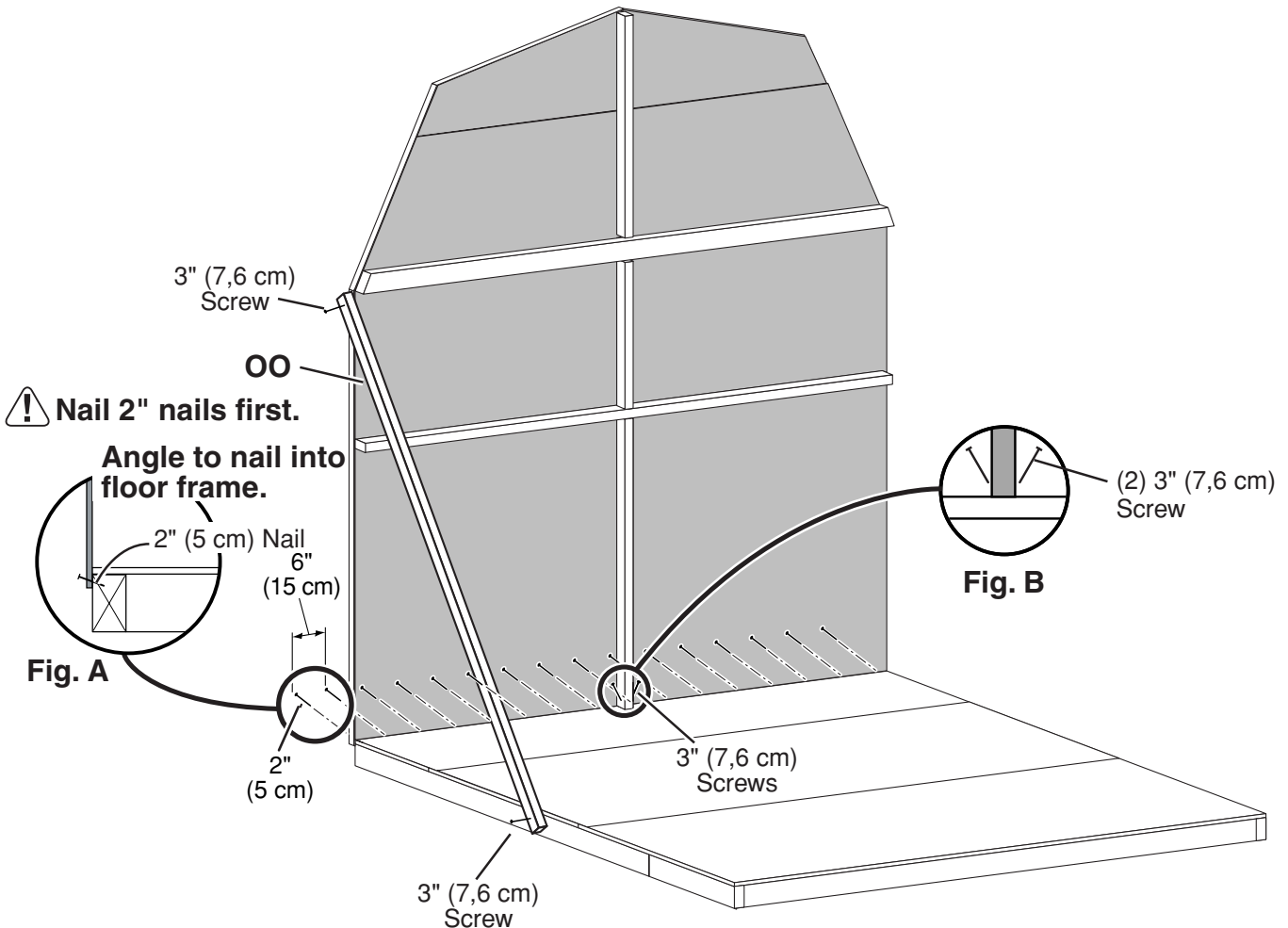**1** Center back wall assembly on the 96" (244 cm) floor dimension.

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

3" (7,6 cm) Screws

96" (244 cm)
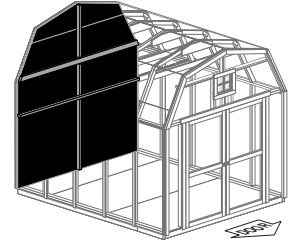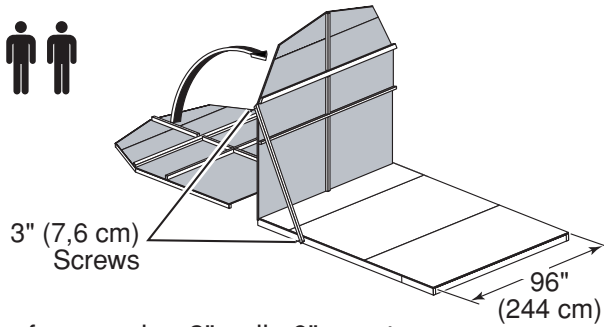
3 First, nail lower edge of panel to floor frame using 2" nails 6" apart. Angle nail to hit floor frame **(Fig. A)**.

4 Screw back wall uprights to floor using two 3" screws **(Fig. B)**.
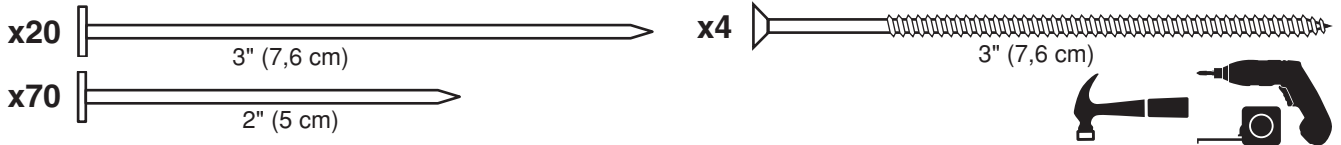
FINISH

6 You have finished standing your back wall.

3" (7,6 cm) Screw

OO

⚠ **Nail 2" nails first.**

Angle to nail into floor frame.

2" (5 cm) Nail

6" (15 cm)

Fig. A

2" (5 cm)

(2) 3" (7,6 cm) Screw

Fig. B

3" (7,6 cm) Screws

3" (7,6 cm) Screw

PARTS REQUIRED:

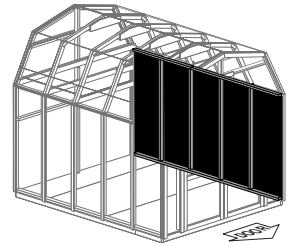x20 3" (7,6 cm)

x4 3" (7,6 cm)

x70 2" (5 cm)

✓**BEGIN**
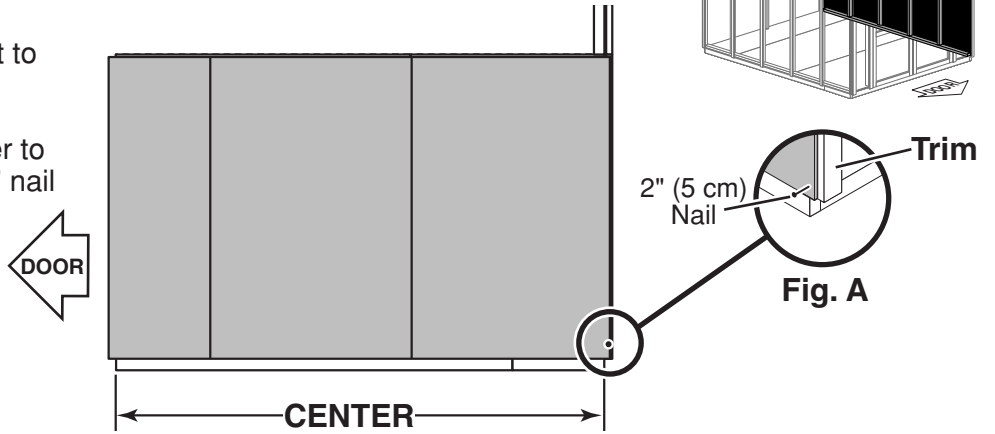
Stand right side wall on floor.

⚠ It is important to secure the side wall in the following order.
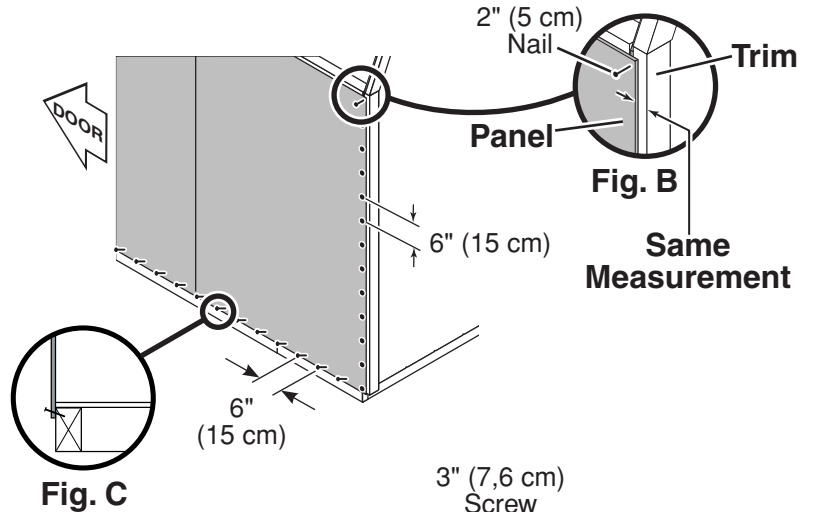
1 Center side wall on floor front to back.

Nail the lower side wall corner to the back wall trim with one 2" nail **(Fig. A)**.

DOOR

CENTER

Trim

2" (5 cm) Nail

Fig. A

2 Be sure the measurement between the panel edge and the trim is the same along the entire length. Then secure with one 2" nail in the upper corner **(Fig. B)**.

Nail along the panel edge into the trim using 2" nails spaced 6" apart.

Nail along bottom of panel using 2" nails 6" apart. Angle nail to hit floor frame **(Fig. C)**.

DOOR

6" (15 cm)

6" (15 cm)

Fig. C

2" (5 cm) Nail

Trim

Panel

Fig. B

Same Measurement

🏁**FINISH**

3 Secure the wall frames bottom plate onto floor using two 3" nails between studs.
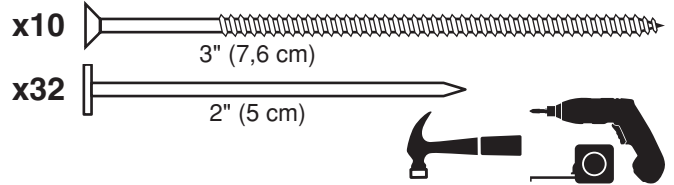
Screw through the back wall trim into the top plate and bottom plate using 3" screws **(Fig. D)**.

Remove temporary brace.
Repeat process to secure the left side wall.

DOOR

3" (7,6 cm) Nail

3" (7,6 cm) Screw

2x3"

Fig. D
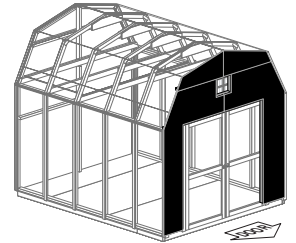
PARTS REQUIRED:

x10 3" (7,6 cm)

x32 2" (5 cm)
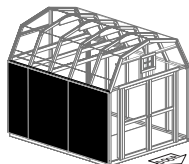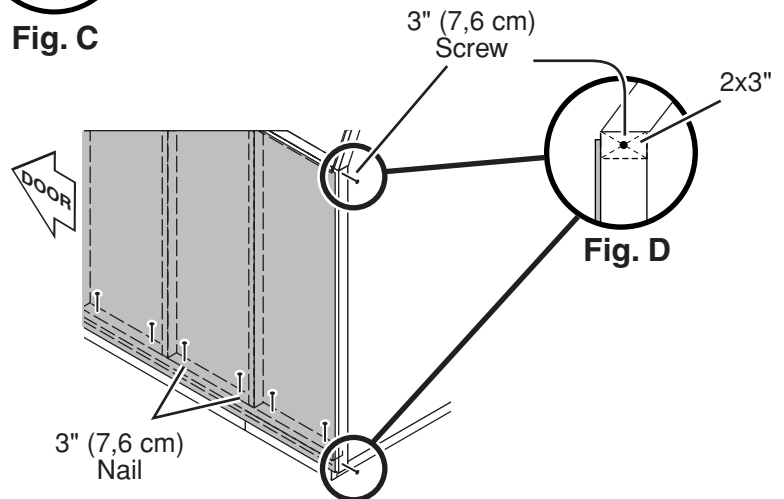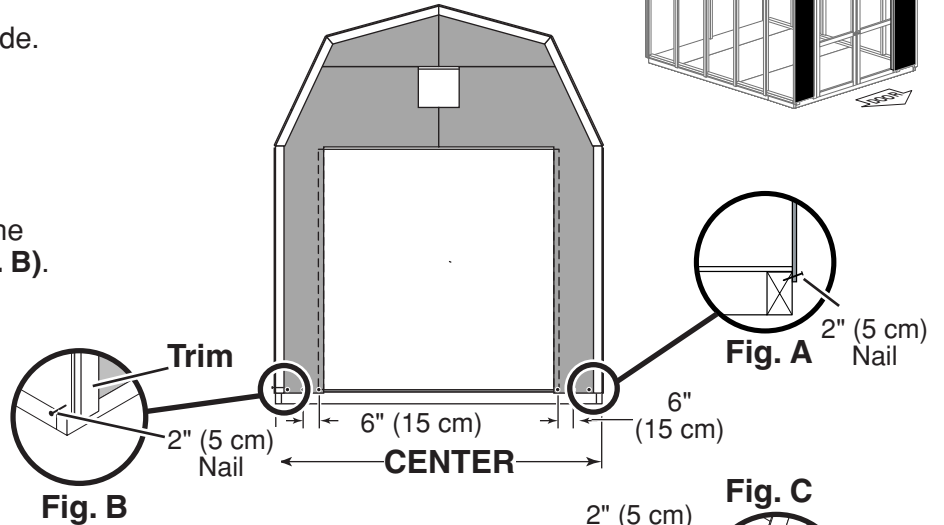
✓**BEGIN**

Stand front wall on floor.

⚠ It is important to secure the front wall in the following order.

**1** Center front wall on floor side-to-side.

Nail the front wall flush to the floor using 2" nails 6" apart. Angle nails to hit floor frame **(Fig. A)**.

Nail the lower side wall corner to the front wall trim with one 2" nail **(Fig. B)**.

Trim

2" (5 cm) Nail **Fig. A**

2" (5 cm) Nail

6" (15 cm)

6" (15 cm)

CENTER

Fig. B

2 Be sure the measurement between the panel edge and the trim is the same along the entire length. Then secure with one 2" nail in the upper corner **(Fig. C)**.

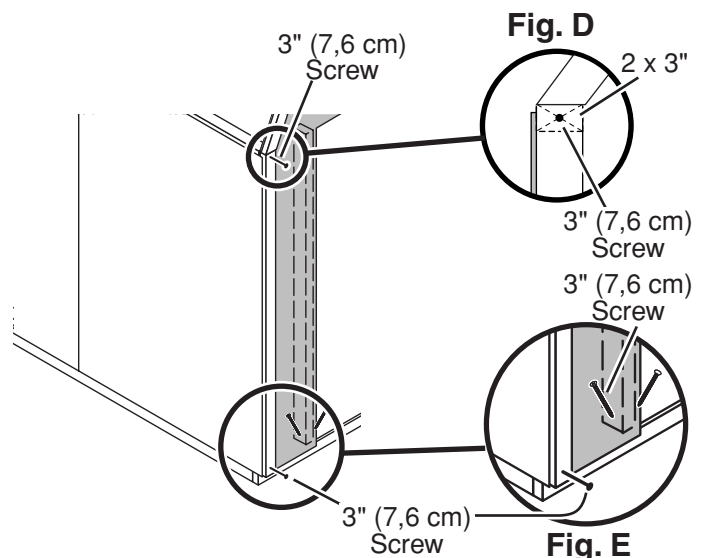Nail along the panel edge into the trim using 2" nails spaced 6" apart.

Fig. C

2" (5 cm) Nail

Trim

Side Panel

2" (5 cm) Nail

6" (15 cm)

Same Measurement
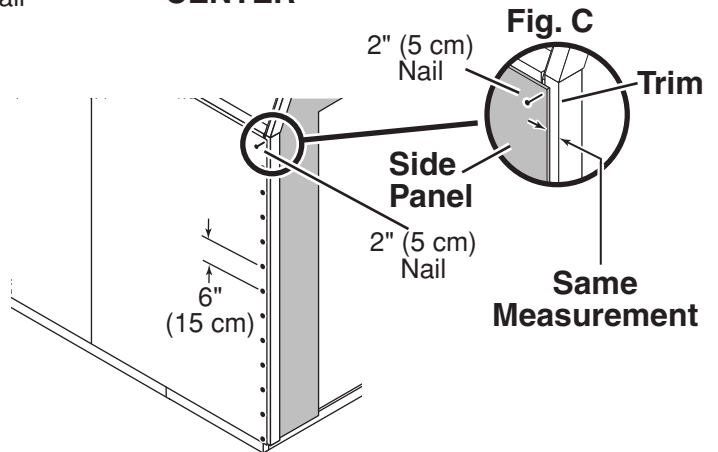
🏁**FINISH**

3 Secure the stud into floor using two 3" screws at an angle **(Fig. E)**.
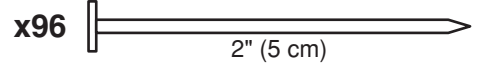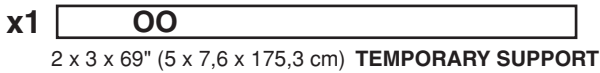
Screw through the front wall trim into the top plate and into side wall bottom plate using 3" screws **(Fig. D, E)**.

**Repeat process to secure the right side of the front wall.**

Fig. D

3" (7,6 cm) Screw

2 x 3"

3" (7,6 cm) Screw

3" (7,6 cm) Screw

3" (7,6 cm) Screw

Fig. E

RAFTERS

PARTS REQUIRED:

x96 2" (5 cm)

Pre-assembled

x8 **RAFTER-HALF**

x1 | **OO** |
2 x 3 x 69" (5 x 7,6 x 175,3 cm) **TEMPORARY SUPPORT**

x8 **GUSSET**

WOOD GLUE

✓**BEGIN**

1 **You will build FOUR assemblies;**
Place two rafter-halves in the corner of back and side walls. The **RED ENDS** identify the ends to be connected at the center.
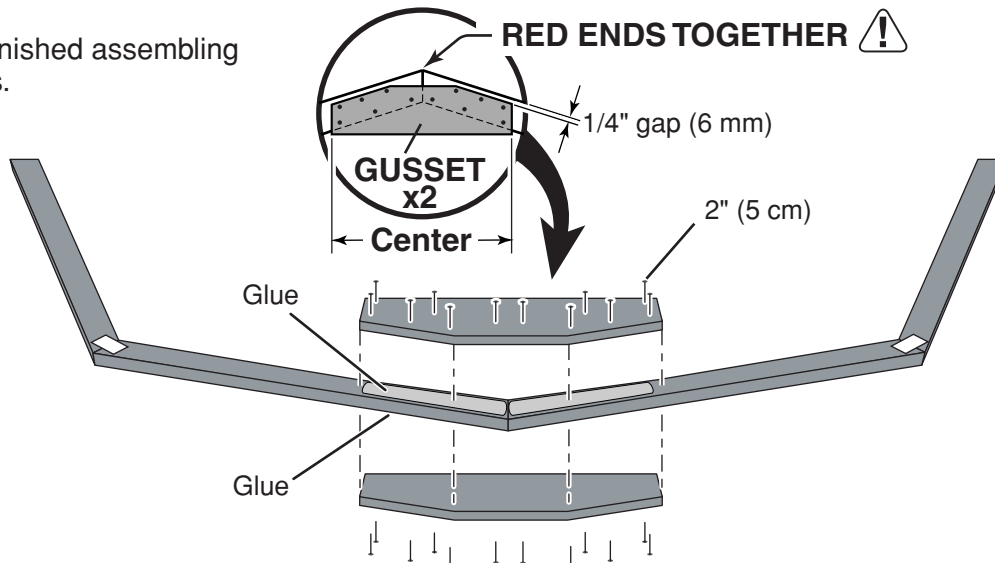
HINT:
Use floor and walls to help assemble rafters!

96"
(244 cm)

Fit base of rafters in corners of back wall.

Temporary support (OO)
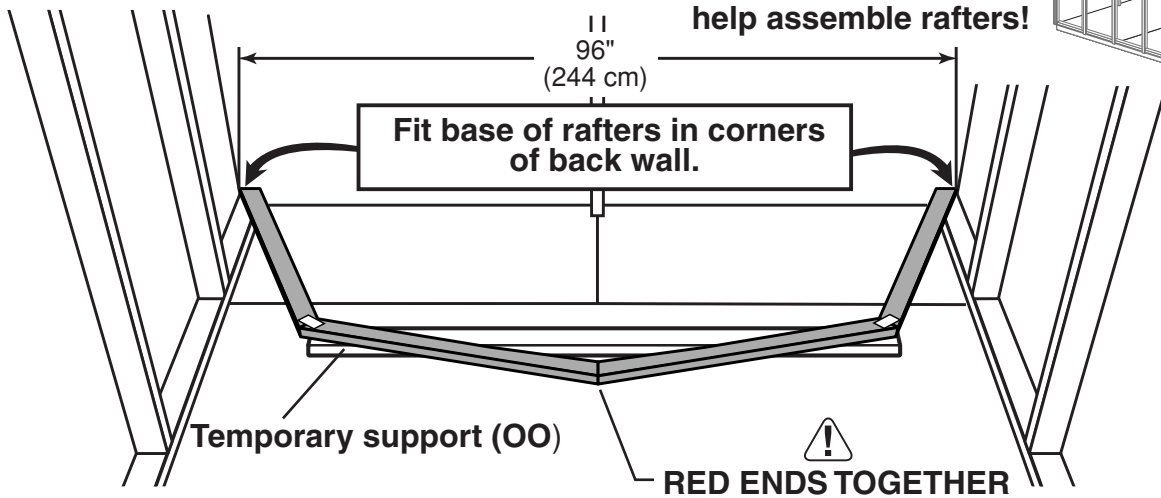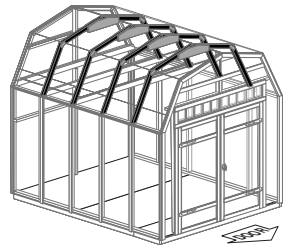
⚠ **RED ENDS TOGETHER**

2 Apply glue to rafters where the gusset will fit.

3 **RED ENDS** of Rafters must touch together at the peak. Nail gusset to rafters using twelve 2" nails in pattern shown.

4 Flip over rafter assembly and repeat **STEPS 2-3** to attach second gusset to other side.

5 Repeat **STEPS 1-4** to build **THREE** additional rafter assemblies.

🏁**FINISH**
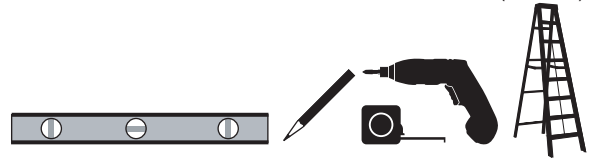
6 You have finished assembling your rafters.

RED ENDS TOGETHER ⚠

1/4" gap (6 mm)

GUSSET x2

Center

2" (5 cm)

Glue

Glue

PARTS REQUIRED:

x10 3/4" (1,9 cm)

x1 HQA
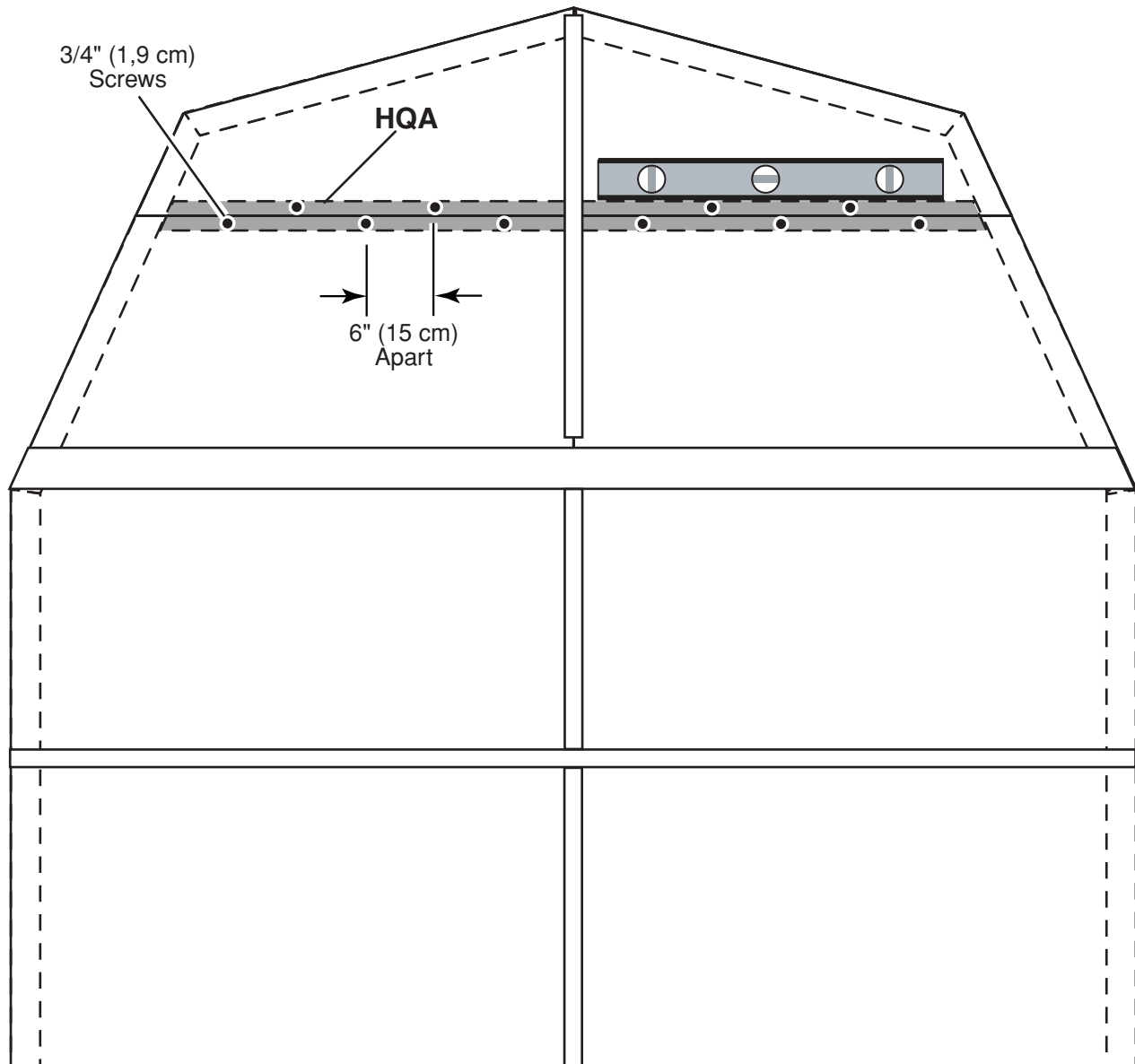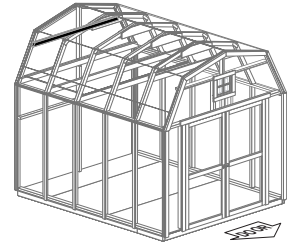1 x 3 x 70-1/2" (2,5 x 7,6 x 179,1 cm)

√ **BEGIN**

1 On outside of back wall, center **HQA** on seam between existing trim.

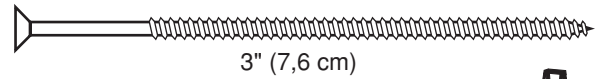Secure with ten 3/4" (1,9 cm) screws 6" (15 cm) apart) from inside as shown.

FINISH

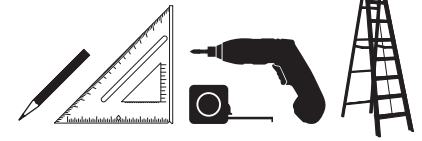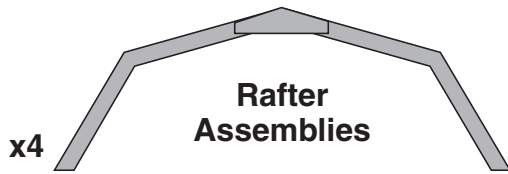**3** You have finished installing your gable trim.

3/4" (1,9 cm) Screws

HQA

6" (15 cm) Apart

RAFTERS

PARTS REQUIRED:

x16 3" (7,6 cm)

x4 Rafter Assemblies

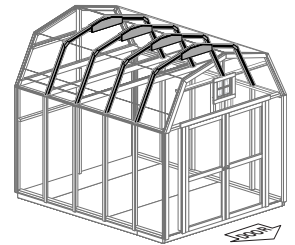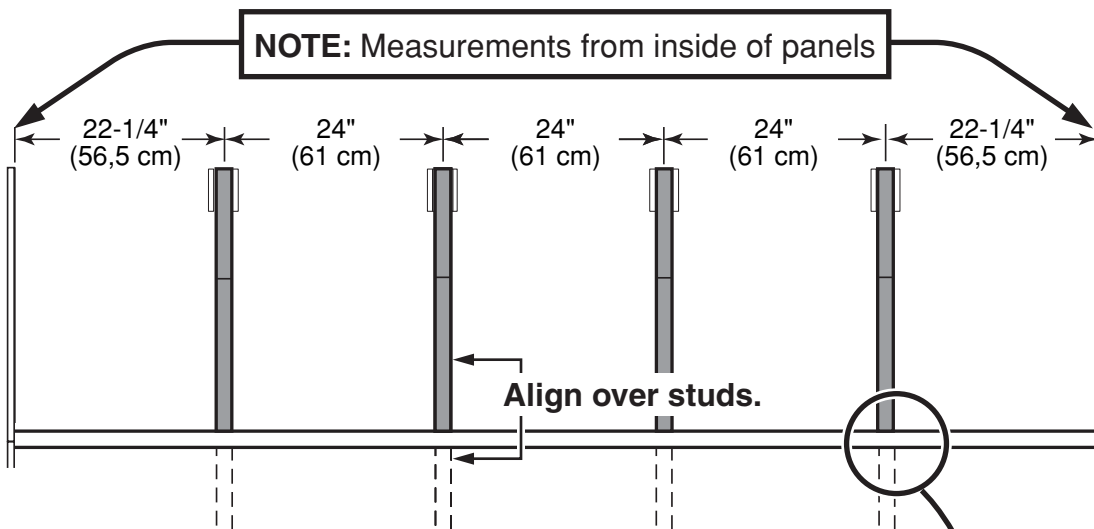√**BEGIN**

1 Measure and mark center of wall studs onto side of top plate. Center four rafters on marks. **(Fig. A)**. The rafters also line up directly over the wall studs.

Check you have the measurements shown.

Toenail with two 3" screws at each end **(Fig. A)**.

FINISH

2 You have finished installing your rafters.

NOTE: Measurements from inside of panels

| 22-1/4" (56,5 cm) | 24" (61 cm) | 24" (61 cm) | 24" (61 cm) | 22-1/4" (56,5 cm) |

Align over studs.

⚠ **Maintain the measurements between rafters.**

Toenail

Angle

Fig. A

Flush

Center on mark for wall stud.
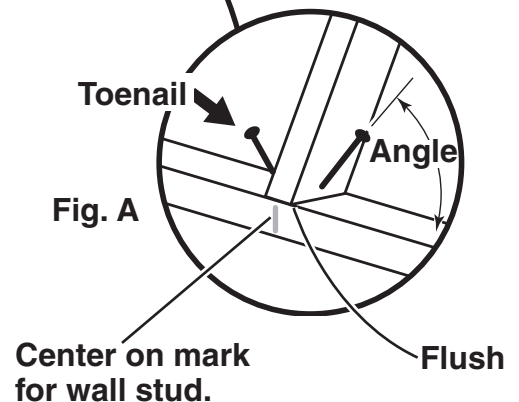
PARTS REQUIRED: **x8**

3" (7,6 cm)

x2   **VW**
1 x 4 x 95" (2,5 x 10 x 241,3 cm)

√**BEGIN**

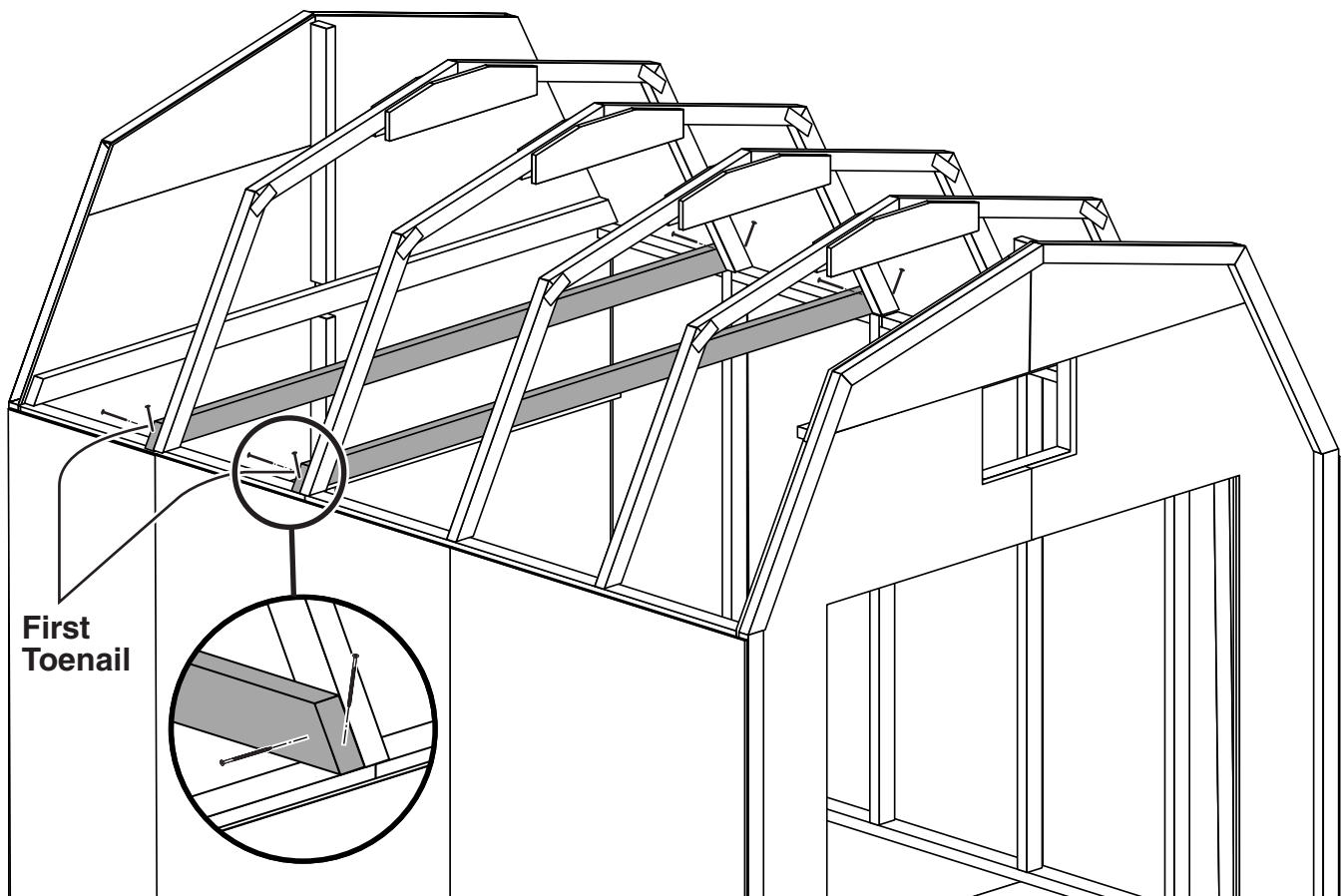**1** Place a loft joist flush on the back side of each of the back two rafters.

2 Attach each joist with one 3" screw toenailed through the joist into the top plate. Screw through each loft joist into the rafters with another 3" screw as shown.

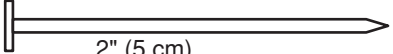**3** ⚠ Check rafters are still 24" on center.
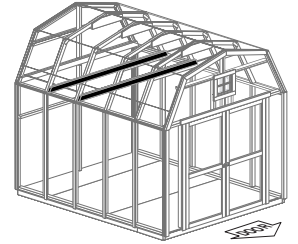
FINISH

4 You have finished installing your loft joists.

First Toenail

LOFT PANEL

PARTS REQUIRED:

x4 ▬══════════════➤
2" (5 cm)

x1 [panel]   7/16 x 48 x 84-3/8"
(1,1 x 122 x 214,3 cm)

✓**BEGIN**

1 Place loft panel grid side up onto the three loft joists centered from side-to-side and flush with the back wall panel. Panel will fit into the gap left earlier and on the jloist of the back wall.

2 ⚠ **IMPORTANT!** Using only four 2" nails, nail loft panel in place to allow racking of the roof. You will complete nailing the loft panel later.

🏁**FINISH**

4 You have temporarily finished installing your loft panel.

Flush

2" (5 cm)
Nails

2" (5 cm)
Nails

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

ROOF PANELS

PARTS REQUIRED:

x4 ⟞———————⟝ 2" (5 cm)

x1

7/16 x 35-3/8 x 96"
(1,1 x 89,9 x 244 cm)

GAA
**3/4"
GAUGE BLOCK**
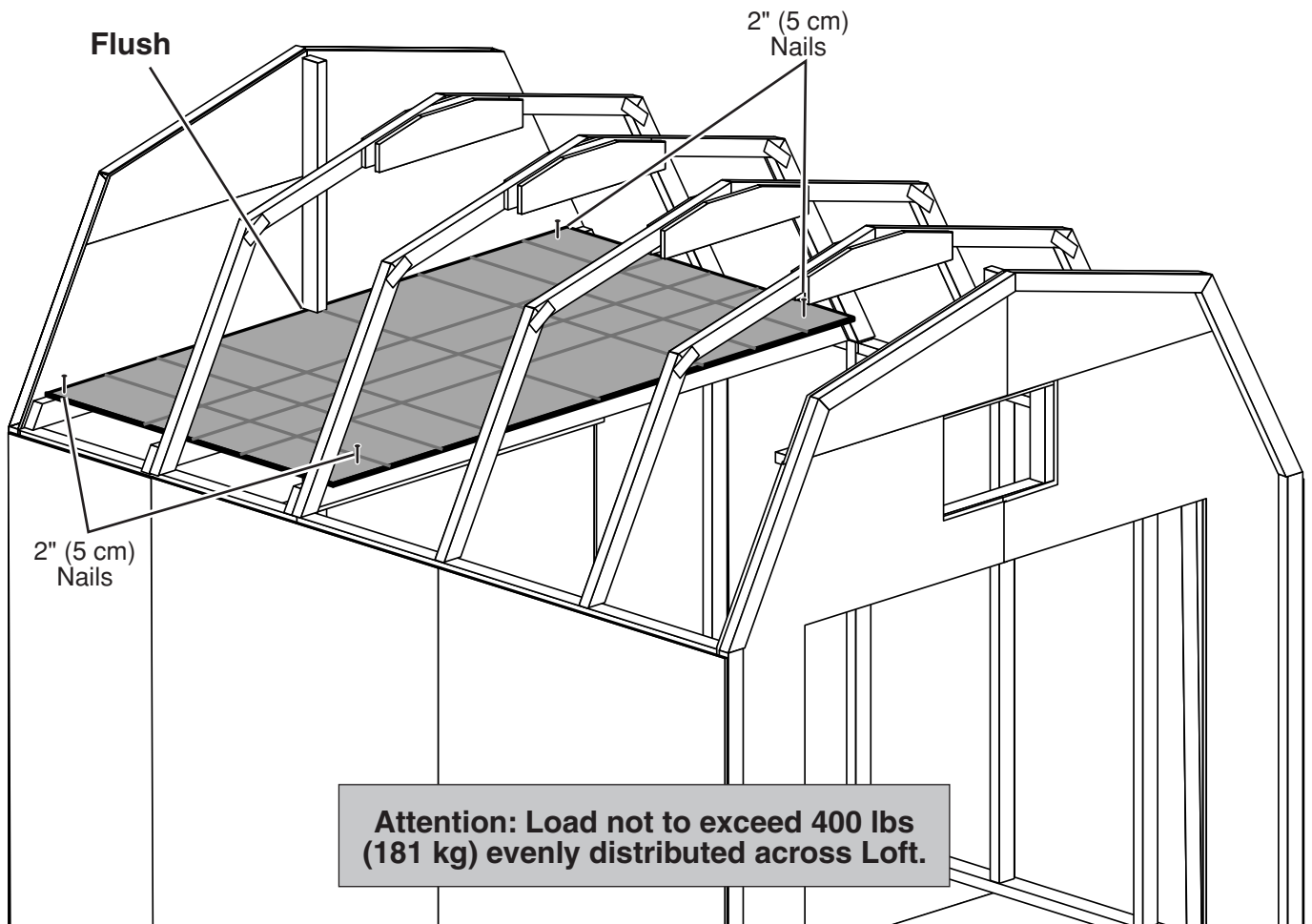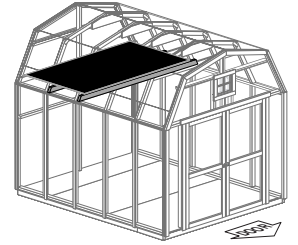
⚠ **Roof panels may cause serious injury
until securely fastened.** 🧍🧍

You must square the roof by attaching one panel fist. You will use the panels' long
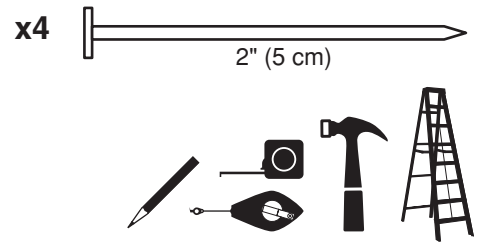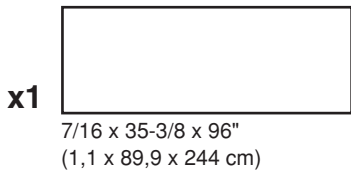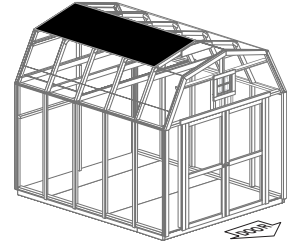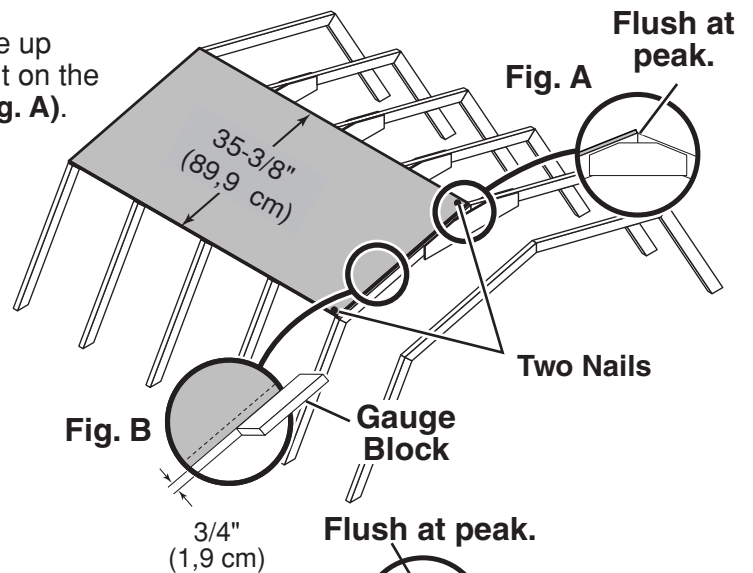edge as a lever to bring your roof into square. Commonly known as "racking".

✓**BEGIN**

1 Attach the **35-3/8 x 96"** panel with the rough side up
(painted-grid lines side) with a 3/4" measurement on the
rafter **(Fig B)** and the panel flush at the peak **(Fig. A)**.

Secure panel with two 2" nails in the corners.

**Flush at
peak.**

Fig. A

35-3/8"
(89,9 cm)

Two Nails

Fig. B

**Gauge
Block**

3/4"
(1,9 cm)

Flush at peak.

Fig. C

2 Move to the opposite end. Using the
long edge of the panel as a lever move
the panel side-to-side until the top
corner is flush to the peak **(Fig. C)** and
there is 1/4" measurement to the gable
trim **(Fig. D)**.

You may need to move your back wall to
get the 1/4" measurement. Secure panel
with two 2" nails in the corners.

1/4"
(6 mm)

**Gable
Trim**

1/4"
(6 mm)

Fig. D

42
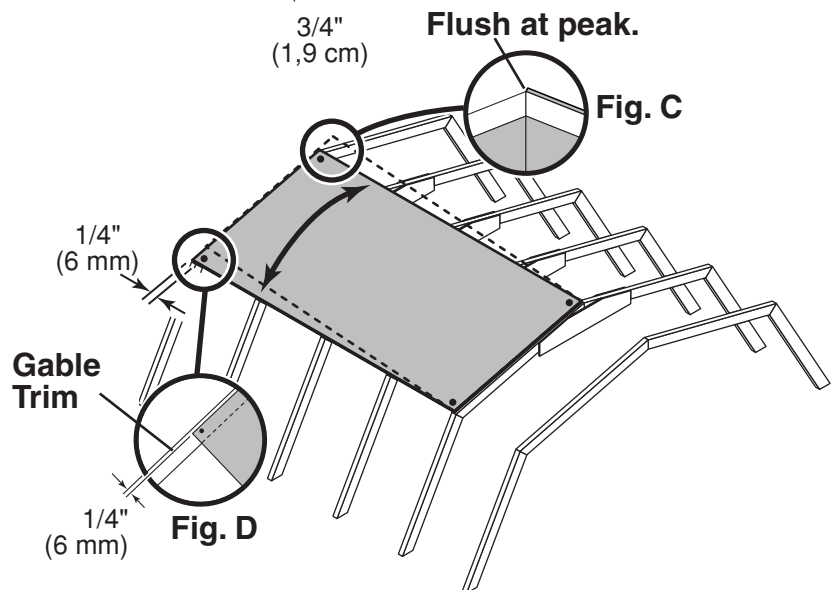
ROOF PANELS

PARTS REQUIRED:

x1
7/16 x 35-3/8 x 96"
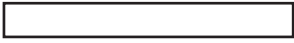(1,1 x 89,9 x 244 cm)
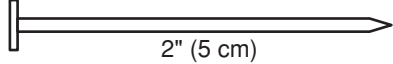
x2
7/16 x 23-7/8 x 35-3/8"
(1,1 x 61 x 89,9 cm)

x2
7/16 x 11-1/2 x 96"
(1,1 x 29,2 x 244 cm)

x2
7/16 x 11-1/2 x 35-3/8"
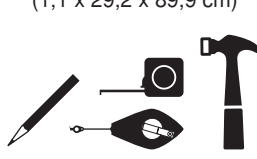(1,1 x 29,2 x 89,9 cm)

x2
7/16 x 23-7/8 x 96"
(1,1 x 61 x 244 cm)

x2
7/16 x 23-7/8 x 23-7/8"
(1,1 x 61 x 61 cm)

x170
2" (5 cm)

GAA
3/4"
GAUGE BLOCK

3 Keep spacing between the center of the rafters at the lower edge of the panel and secure with one 2" nail into each rafter **(Fig. A)**.

Move to the top of the panel and keep spacing between the center of the rafters. Secure with one 2" nail into each rafter **(Fig. A)**.

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

Fig. A

NOTE: Measurements from inside of panels

22-1/4" (56,5 cm) 24" (61 cm) 24" (61 cm) 24" (61 cm) 22-1/4" (56,5 cm)

2" Nail

6" (15 cm)

12" (30,5 cm)

Flush

1/4" (6 mm)

7/16 x 23-7/8 x 35-3/8"
(1,1 x 61 x 115 cm)

Fig. B
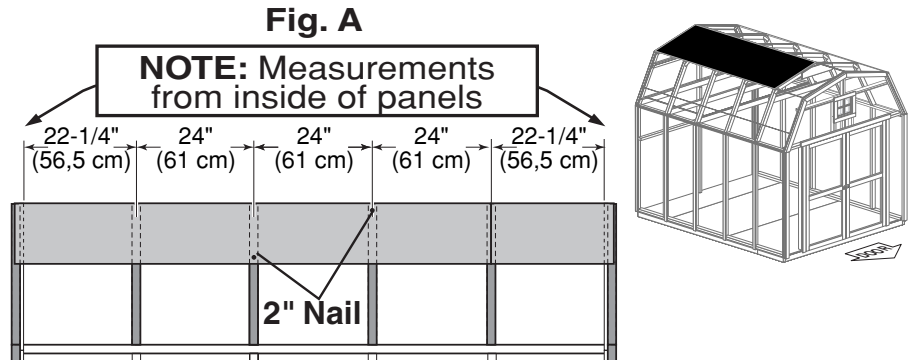
Fig. C   Gable Trim

4 Attach the **23-7/8 x 35-3/8"** upper roof panel flush to first panel, flush at peak and with the 1/4" measurement **(Fig. B, C)**.

FINISH
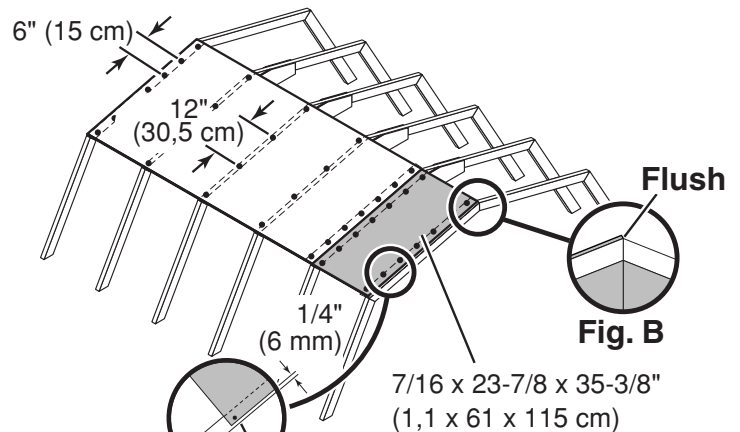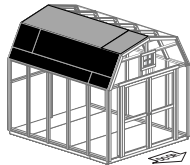
5 Attach the lower roof panels flush to the upper panels **(Fig. D)** and 3/4" on rafter **(Fig. E)** and with a 1/4" measurement at the gable trim **(Fig. F)**.
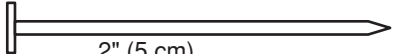
Nail the roof panel using 2" nails 6" apart on edges and 12" apart inside panel.

Repeat Steps 1-5 to attach roof panels on the opposite side.

23-7/8" (61 cm)
23-7/8" (61 cm)
11-1/2" (29,2 cm)
3/4" (19 mm)
96" (244 cm)
96" (244 cm)
23-7/8" (61 cm)

Flush

Fig. D

Fig. E
3/4" (19 mm)

Fig. F   Gable Trim
1/4" (6 mm)

43
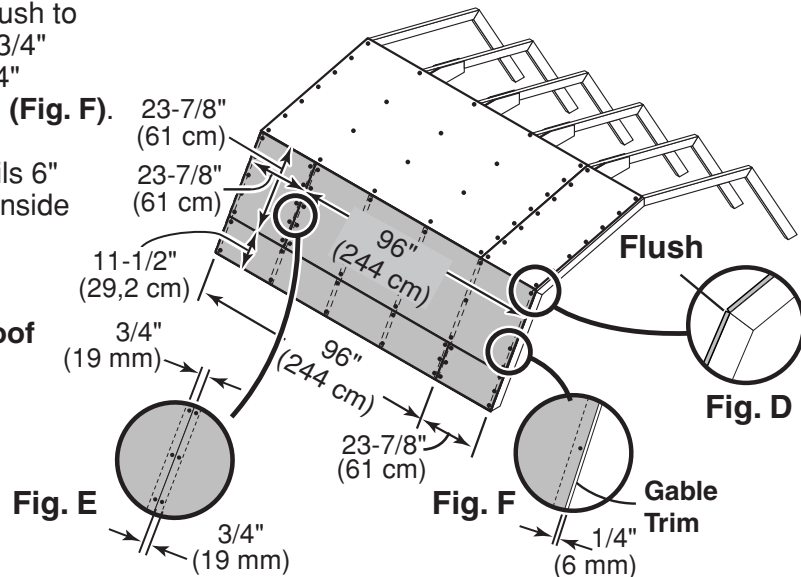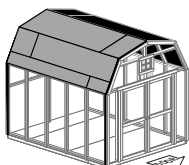
PARTS REQUIRED:

x11 ▭─────────────►
2" (5 cm)
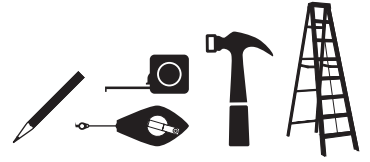
✓**BEGIN**

1 Complete installation of loft panel using 2" nails spaced 24" apart.

🏁**FINISH**

2 You have finished your loft panel.

2" (5 cm)
Nails

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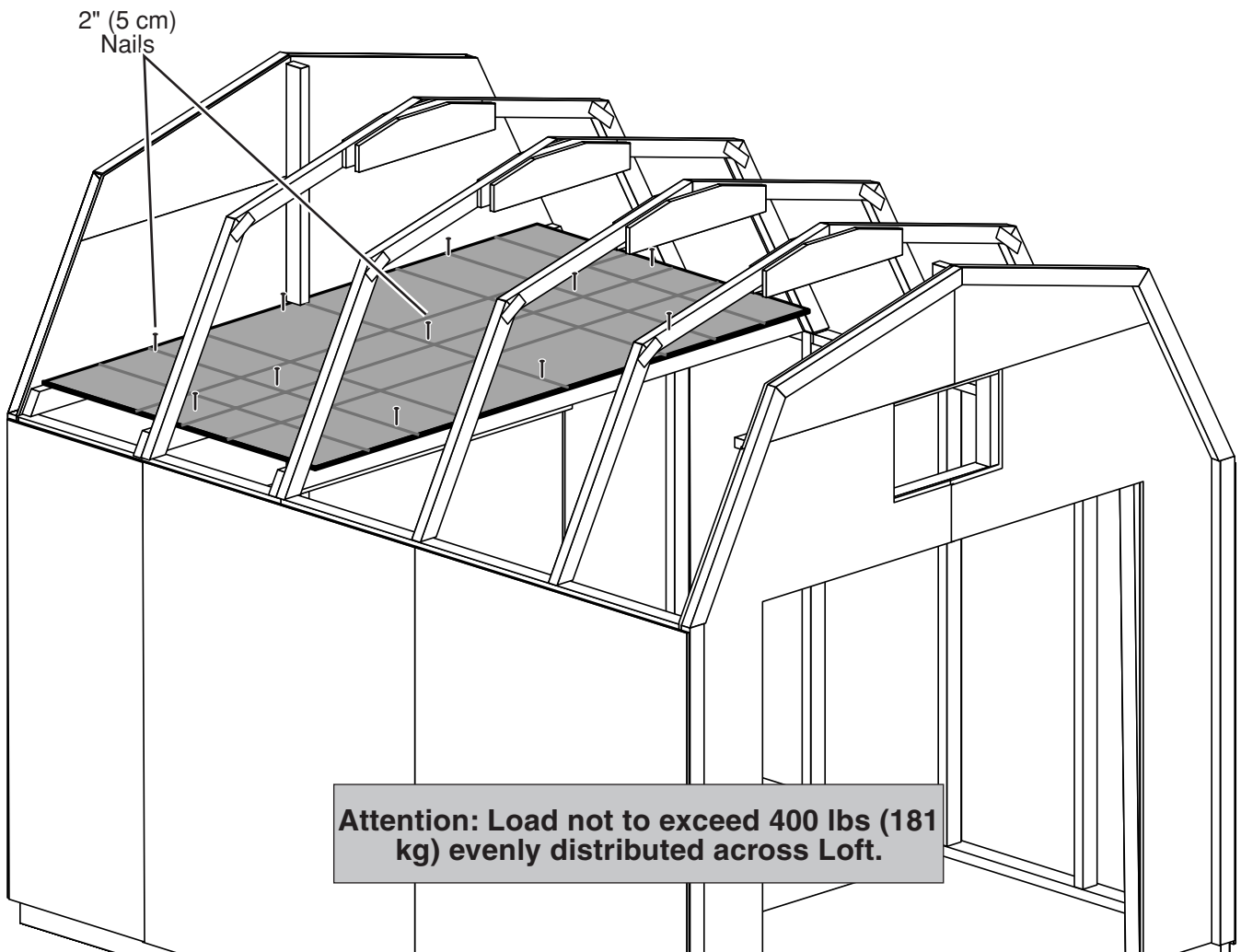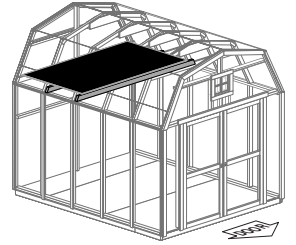
COLLAR TIES

PARTS REQUIRED:

x12

2" (5 cm)

x2 | **WO**
1 x 4 x 72" (2,5 x 10 x 183 cm)
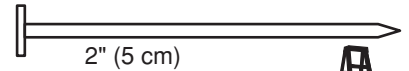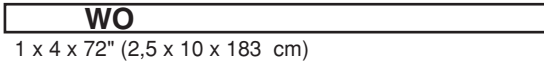
✓**BEGIN**

1 Install collar tie **WO** on the two rafters closest to the door opening.

2 Use three 2" nails at each side of collar tie. Collar ties should be flush to the roof panels. Ensure the collar ties are level before nailing.
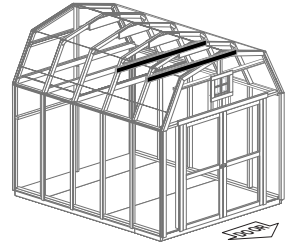
FINISH

3 You have finished attaching your collar ties.

WO

Flush

Flush

Flush

Flush

DOOR

HINT: For best appearance, install collar ties on back side of rafters.
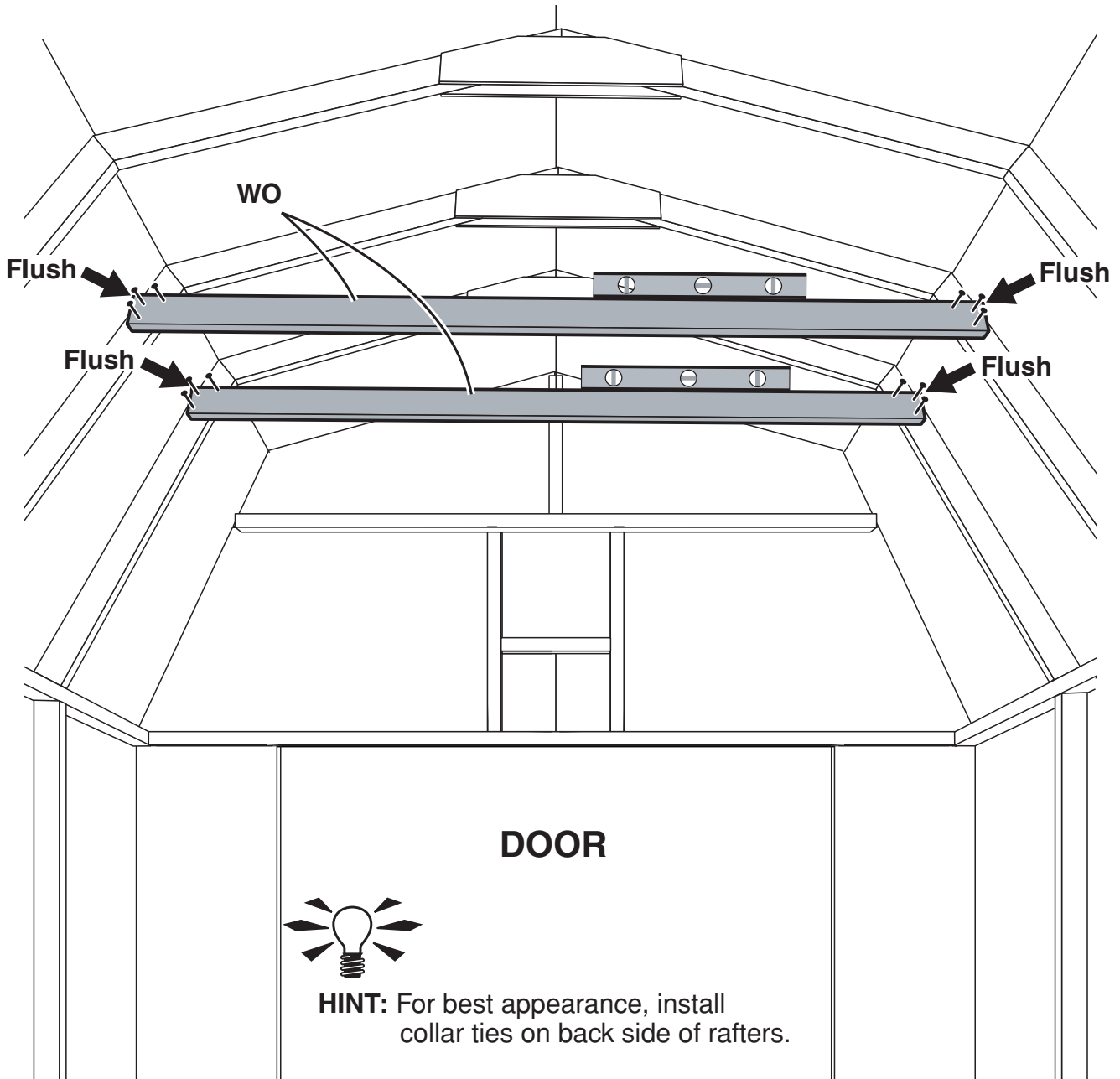
DOORS

PARTS REQUIRED:

x1 — Left Door

x1 — Right Door

HINT:
Look for 3/8" SPACER attached to doors.
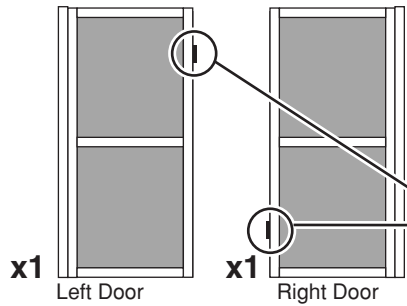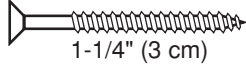
x1 — **OO**
2 x 3 x 69" (5 x 7,6 x 175,3 cm)

GAA
3/4"
GAUGE BLOCK

x2 — 1-1/4" (3 cm)

x4 — 3" (7,6 cm)

✓ **BEGIN**

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

2 Attach temporary support **OO** with 3" screws. Tighten securely.

Attach temporary support **GAA** at bottom with 1-1/4" screws. Tighten securely.

GREEN

RED

OFFSET 3/8" (1 cm)

Make sure spacer is attached.

3/8" (1 cm)

⚠ 3/8" OFFSET (1 cm)

20" (50,8 cm)

3" (7,6 cm) Screws

OO

⚠ **Tighten screws securely.**

1-1/4" (3 cm) Screws

3/4" (19 mm)

GAA

20" (50,8 cm)

3/4" (19 mm)

3/8" (1 cm)

Bottom edges flush.

46

PARTS REQUIRED:

x7
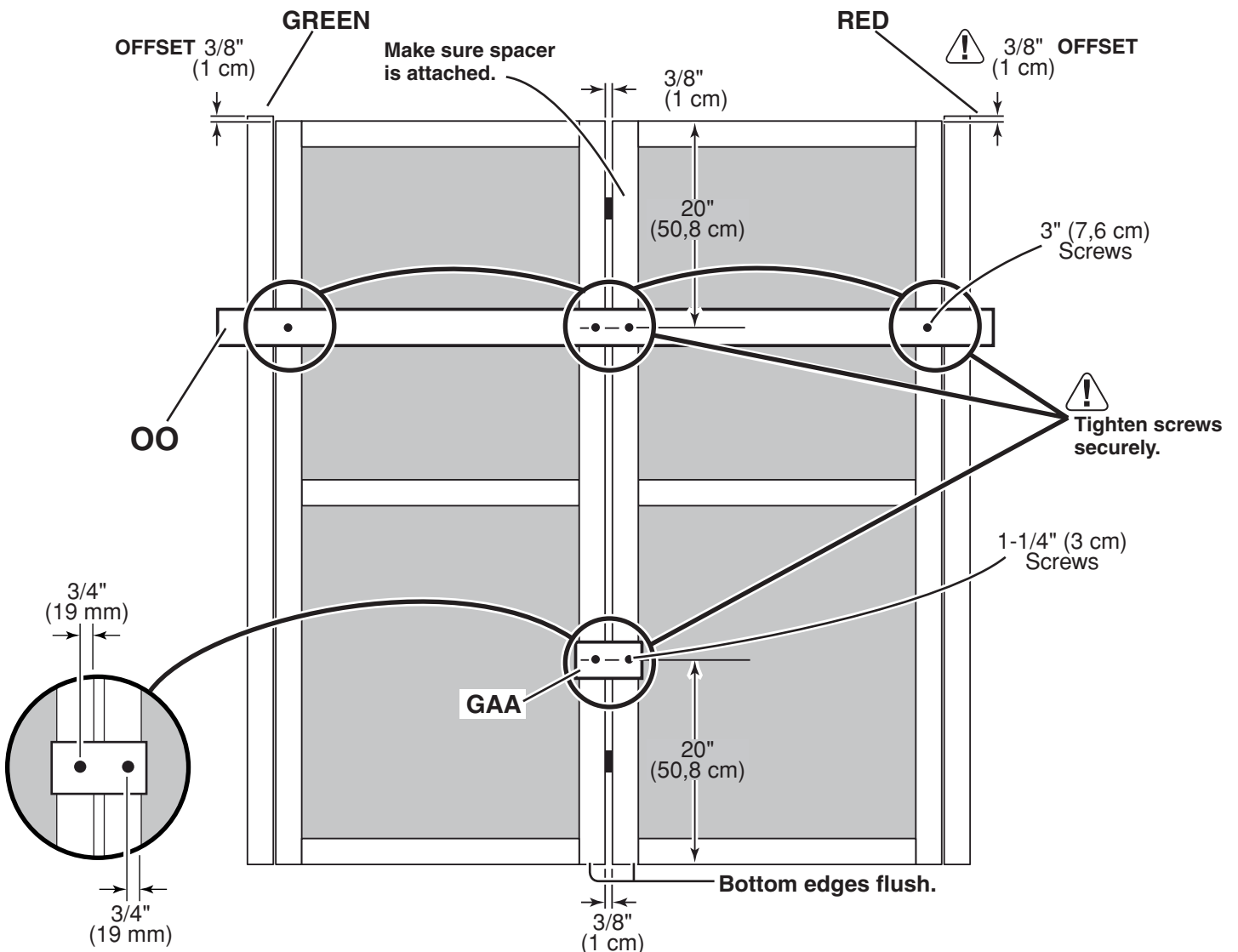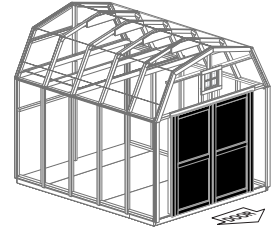
3" (7,6 cm)

x1 **OO**
2 x 3 x 69" (5 x 7,6 x 175,3 cm)

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

OO

⚠ **Flush against wall panels.**

Fig. A

OO
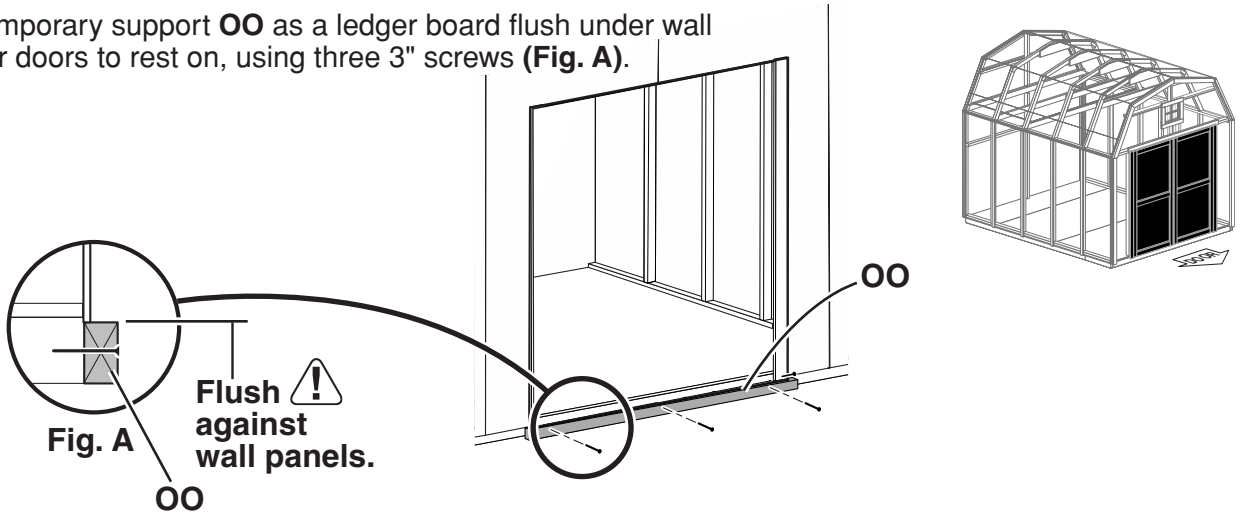
4 Center doors on panel seam as shown **(Fig. B)**.

⚠ **Check ledger board is still flush under panels.**

5 Screw hinge boards into wall supports and floor using four 3" screws as shown.
⚠ **Make sure screws go into framing and floor (Fig. C, D)**.

6 Remove temporary supports and check doors open properly.

FINISH

7 You have finished installing your doors.

⚠ **Center 3/8" measurement on panel seam.**

Fig. C

Fig. B

3/8"
(1 cm)

Angle 3" (7,6 cm) Screw

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

Fig. D

47
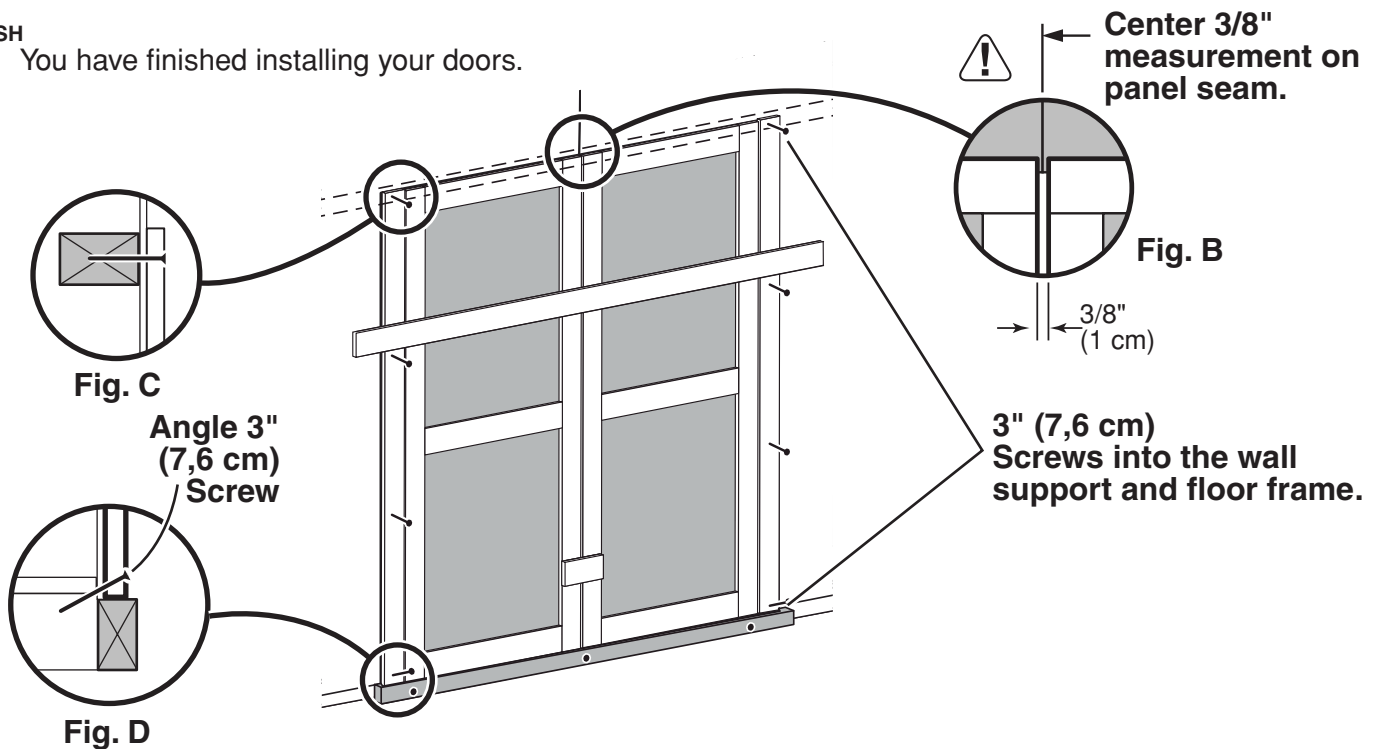
PARTS REQUIRED:

x38 3/4" (19 mm)
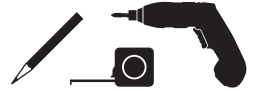
✓ **BEGIN**

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

🏁 **FINISH**
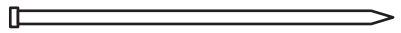
2 You have finished securing your doors.

Door Panel

Install 3/4" screws from inside.

Hinge Board

Fig. A

Door Trim

17-1/2" (44,5 cm) Approximately

← CENTER → ← CENTER →

CENTER

CENTER

Two Screws

Fig. B

48
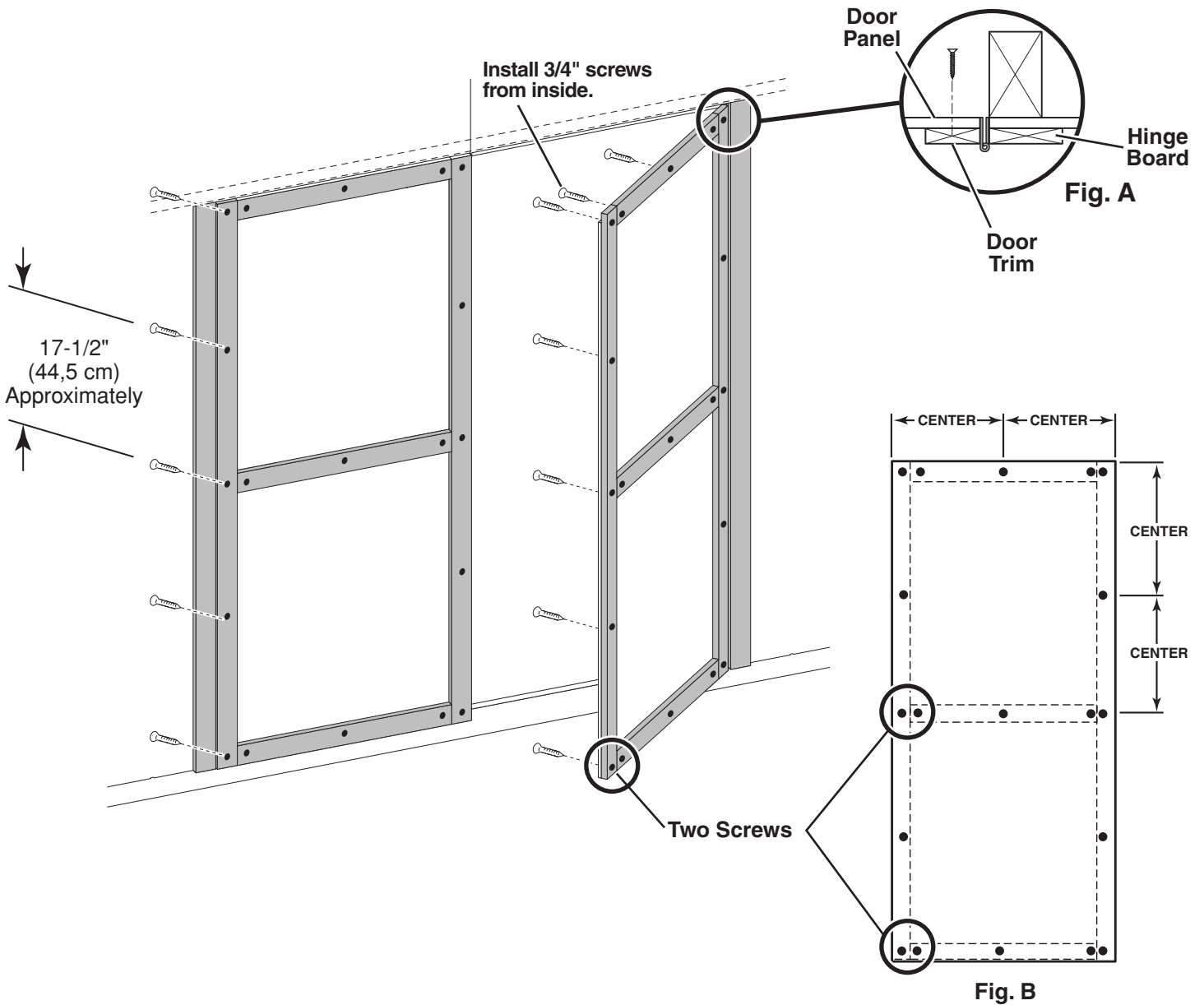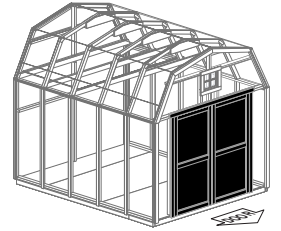
DOOR TRIM

PARTS REQUIRED:

x8 2" (5 cm)

x2 **ZJ**
19/32 x 3 x 72" (15 mm x 7,6 x 183 cm)
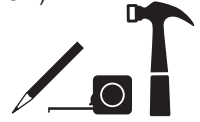
✓**BEGIN**

1 Center a **ZJ** over the Doors as shown. Secure with eight 2" finish nails 8" apart.
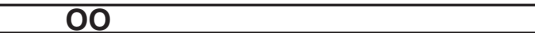
FINISH
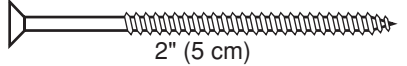
2 You have finished installing your over door trim.

ZJ

Center

2" (5 cm)
Finish nails

8" (20,3 cm)
apart
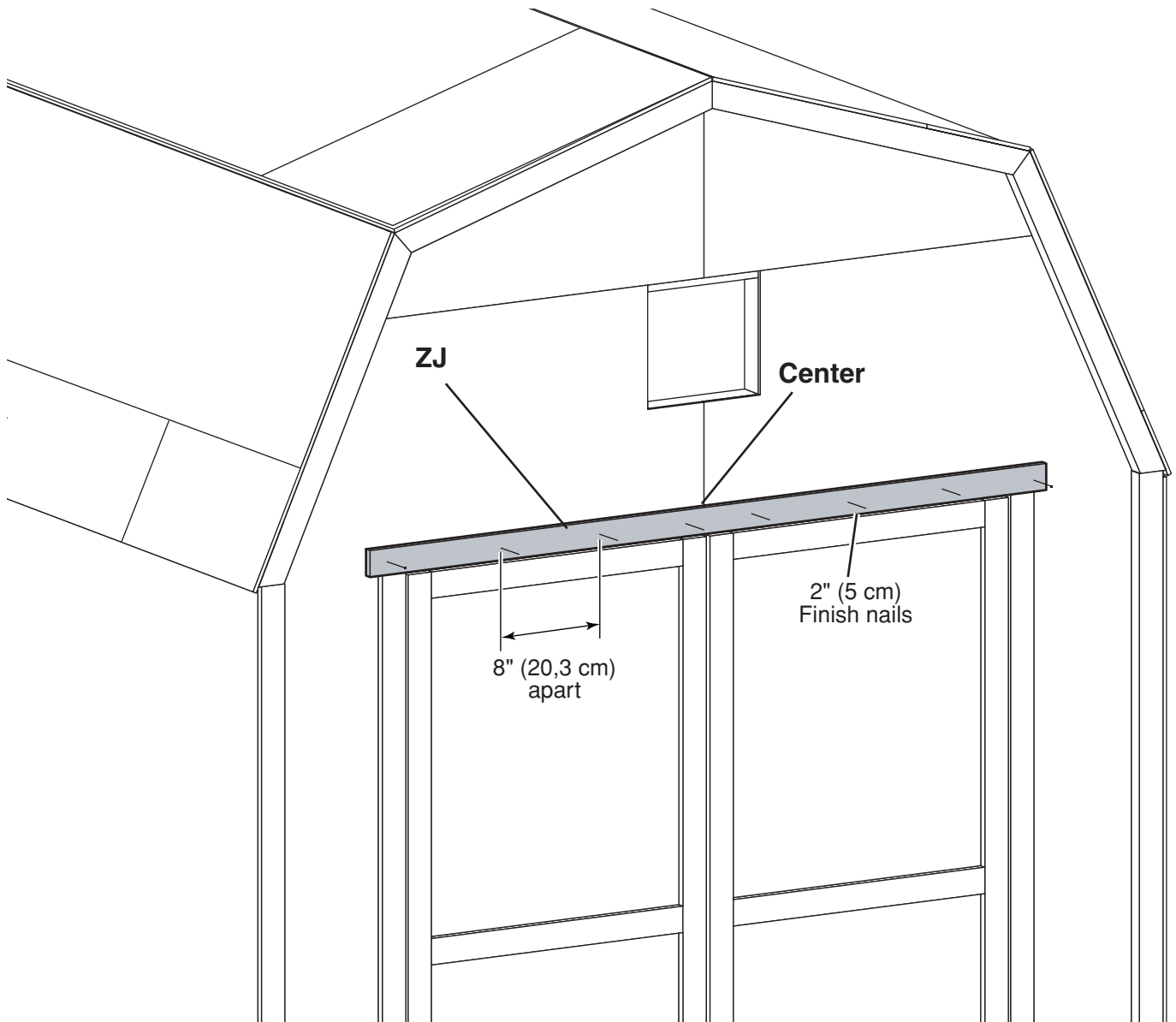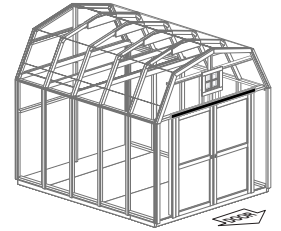
DOOR WEATHERSTRIP

PARTS REQUIRED:

x2 | **OO** |
2 x 3 x 69" (5 x 7,6 x 175 cm)

x14 2" (5 cm)

✓**BEGIN**

1 With left door closed, center a weatherstrip **OO** vertically on the left door in the door opening **(Fig. A**). **OO** will offset the left door 1" OUT past the door trim 1" **(Fig. B).**

2 Secure **OO** using seven 3" screws through outside trim into **OO (Fig. B)**

3 On right door center **OO** vertically in door opening **(Fig. A)**. **OO** will offset the right door 1" IN from the door trim **(Fig. C**).

4 Secure **OO** using seven 3" screws through outside trim into **OO (Fig. C**).
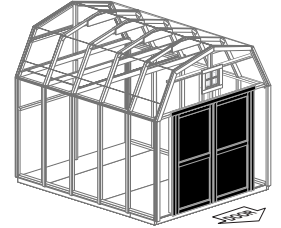
FINISH

5 You have finished installing your door weatherstrips.

Center OO in door opening.

Fig. A

OO

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

OFFSET

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

2" (5 cm) Screws

Fig. C

2" (5 cm) Screws

11" (28 cm) Approximately
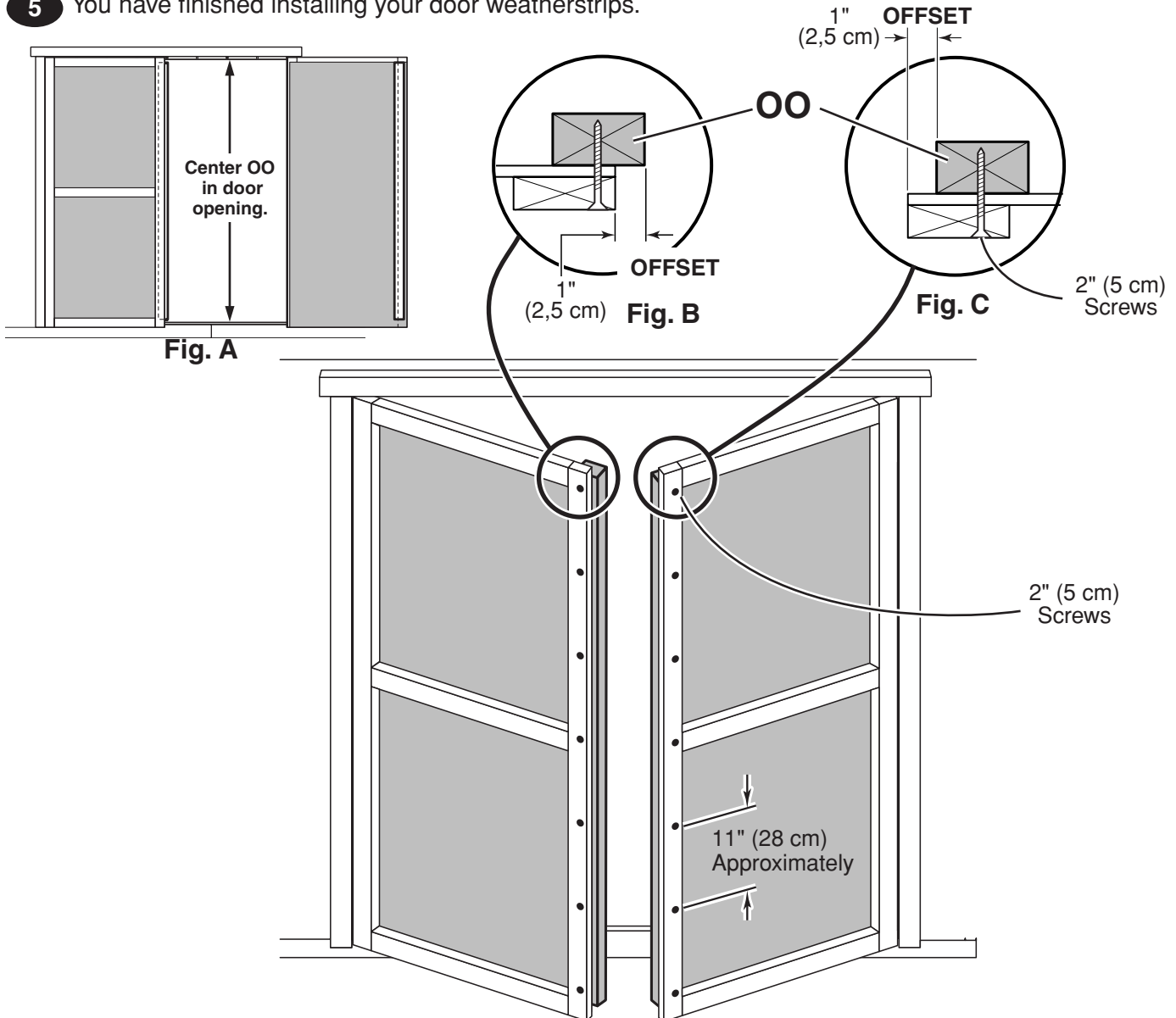
DOOR HARDWARE

PARTS REQUIRED:

x1

x4 1" (2,5 cm)

x1

x7 3/4" (1,9 cm)

5/16" (0,8 cm) Drill Bit
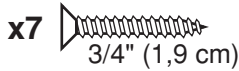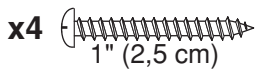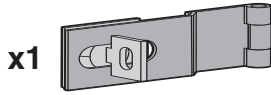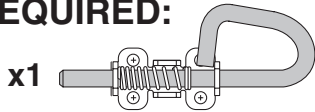
✓BEGIN

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 Install hasp on right door and latch on left door. Bottom edge of hasp is 35-1/2" (90 cm) up from bottom edge of door trim. Measure and mark locations and install with 3/4" screws as shown **(Fig B)**.

FINISH

4 You have finished mounting your door hardware.

Fig. A

⚠ **Locate and pre-drill holes To avoid splitting wood**

OVER DOOR FRAME

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

OO 2 x 3 x 69"

3/8" with bolt in open position.

x4

PRE-DRILL (4) HOLES

OPEN POSITION, Spring is loose.

Loop contacts base.

12" (30,5 cm)

3/4" (1,9 cm) Screw x7

Install on right door

35-1/2" (90 cm)
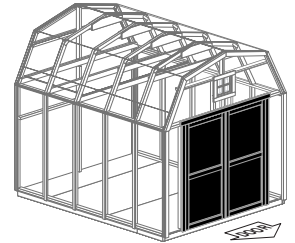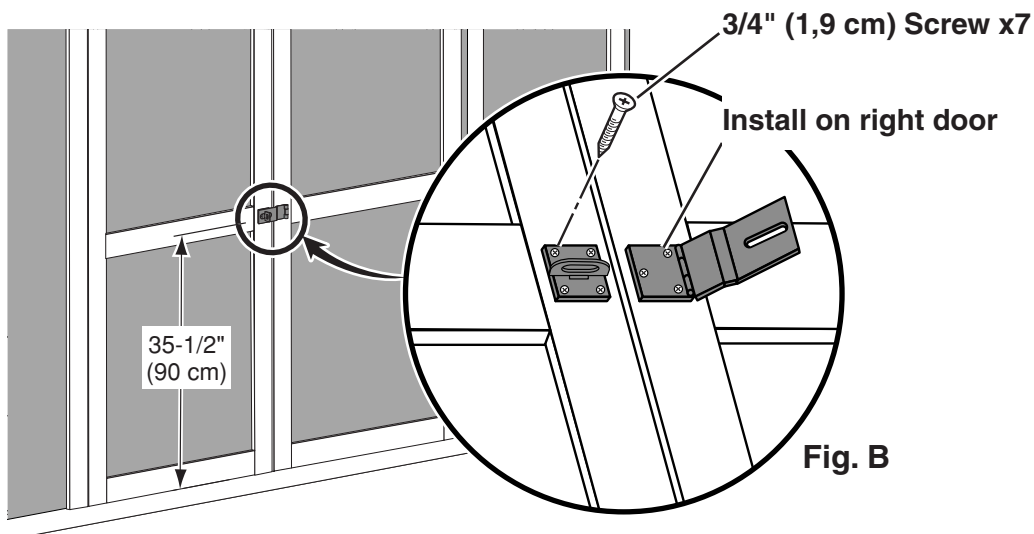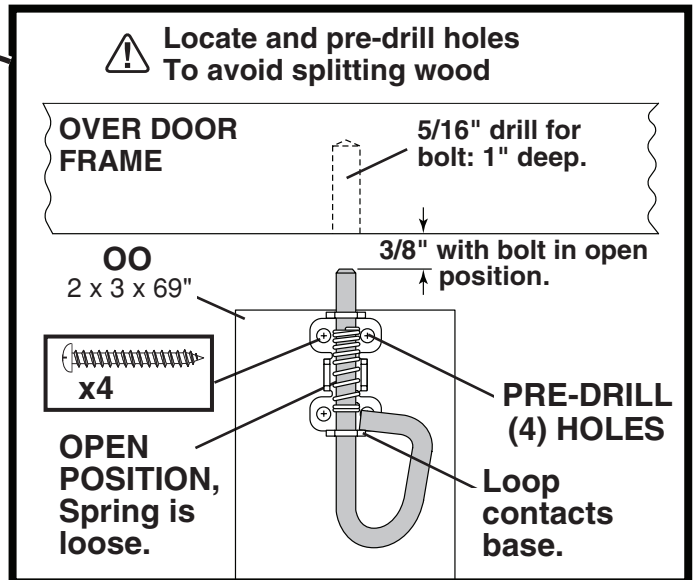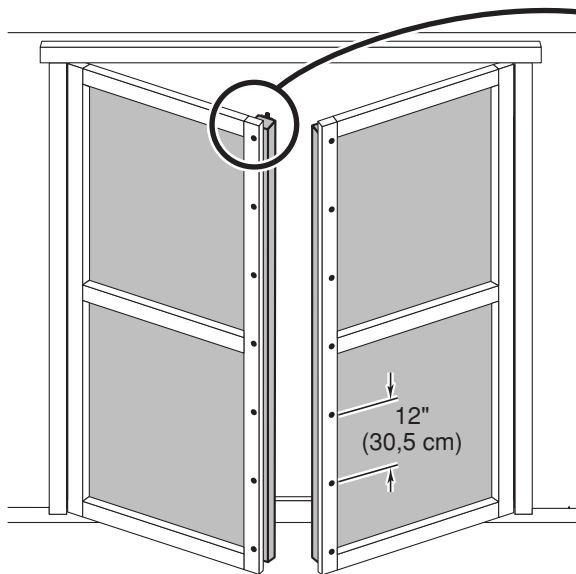
Fig. B

WINDOW

PARTS REQUIRED:

x1 12 x 12"
(30,5 x 30,5 cm)
Window

x2 EU
1 x 3 x 17" (2,5 x 7,6 x 43 cm)

x2 DI
1 x 3 x 12" (2,5 x 7,6 x 30,5 cm)

x14 2" (5 cm)

x14 3/4" (15 mm)
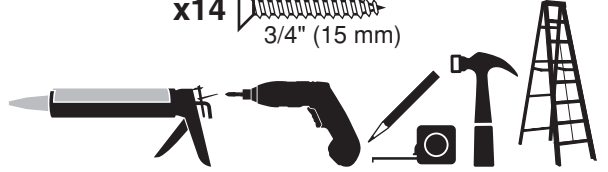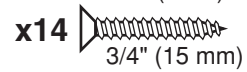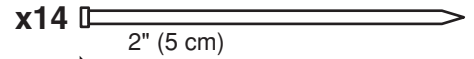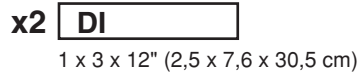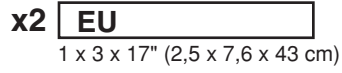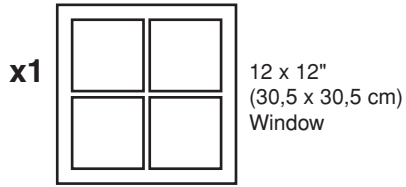
√**BEGIN**

1 Caulk behind window flange and secure window in opening using 3/4" screws as shown.

2 Position **EU** and **DI** over window, and secure with 2" finish nails.
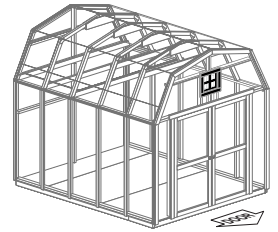
FINISH

3 You have finished installing your window.

3/4" (19 mm)
Screws

EU

DI
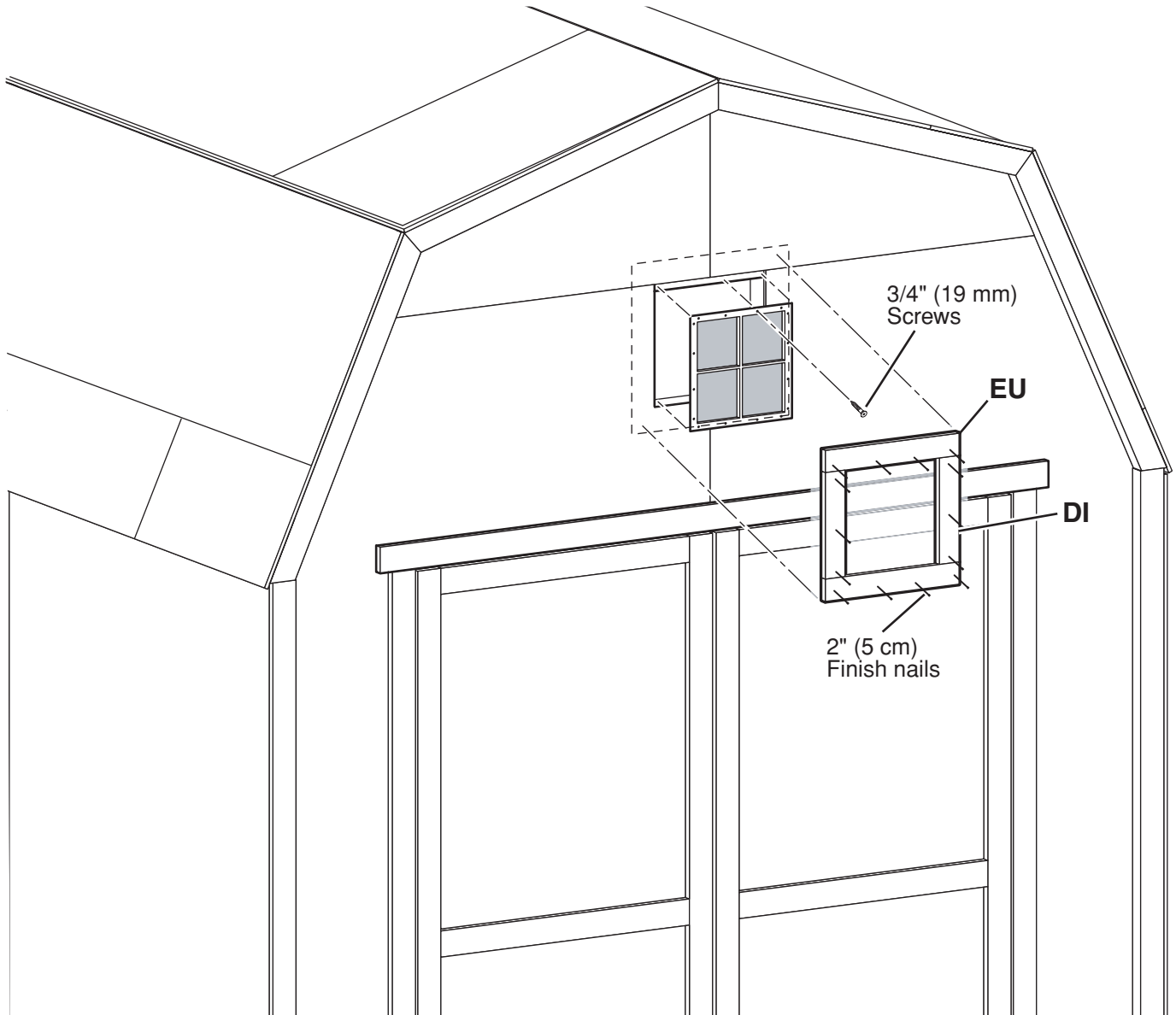
2" (5 cm)
Finish nails

BATTENS

PARTS REQUIRED:

x8

1-3/4 x 3 x 72" (4,4 cm x 7,6 x 183 cm)

x56

2" (5 cm)
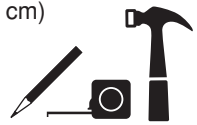
√**BEGIN**

1 Secure battens over wall studs and seams using 2" finish nails 12" apart. Repeat on other side.

FINISH

2 You have finished installing your battens .

24" (61 cm)

24" (61 cm)

24" (61 cm)

24" (61 cm)

24" (61 cm)

Battens

2" (5 cm) Finish nails
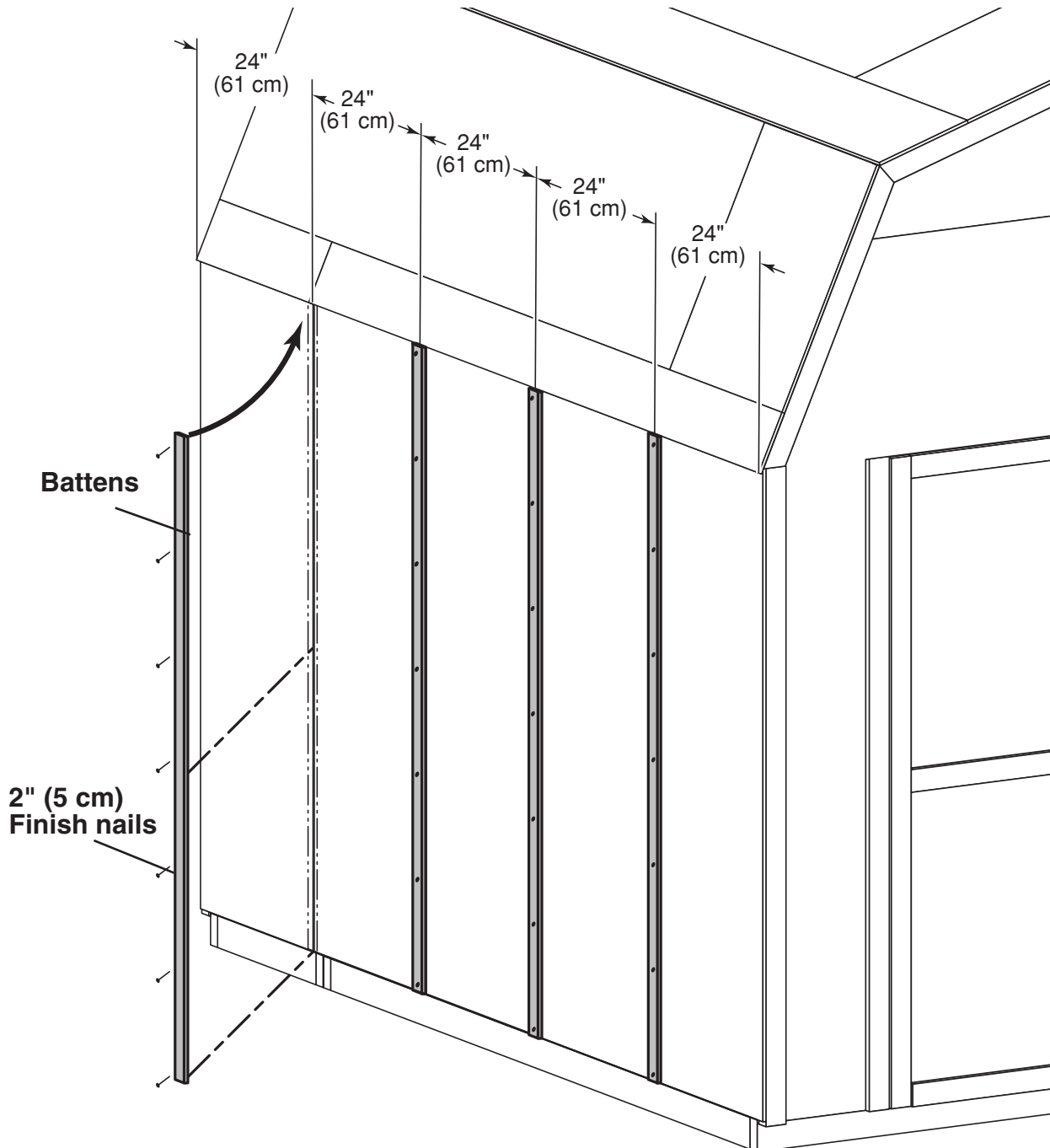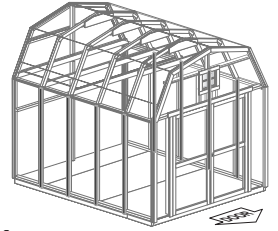
PAINT & CAULK
- NOT INCLUDED -
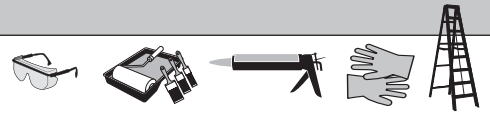
• Use acrylic latex caulk that is paintable. Caulk at all horizontal and vertical seams, between the trim and walls, and all around the door trim.

• 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

Flush
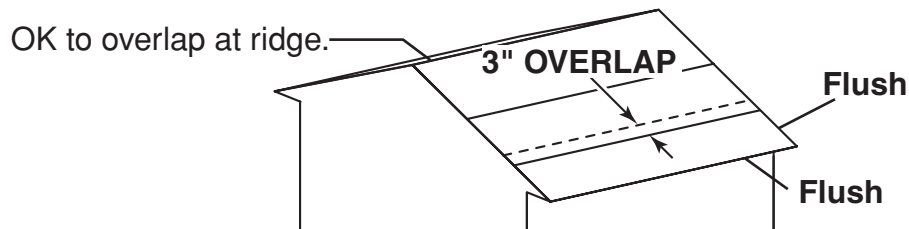
DRIP EDGE
- NOT INCLUDED -

• Install over roof felt on gable 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.

Roof Felt

Fig. A

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.)

54
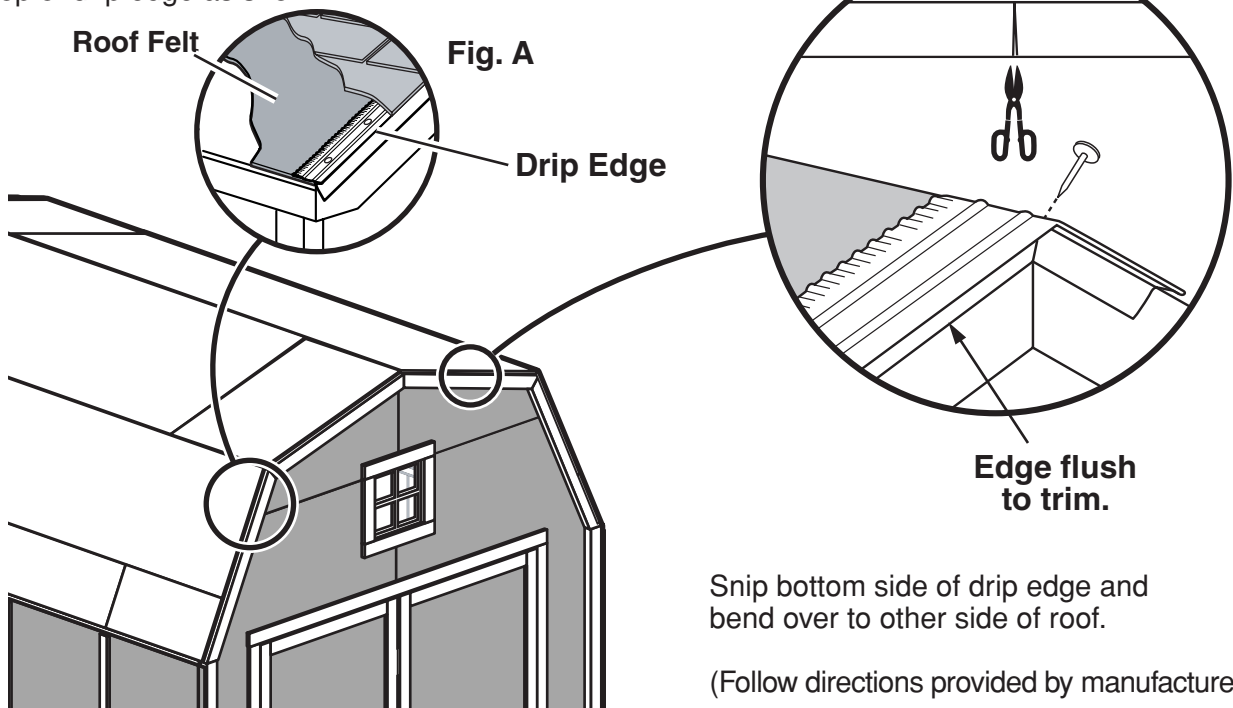
• **Follow directions provided by manufacturer and these instructions.**
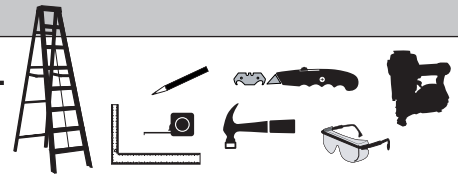
⚠ **Familiarize yourself with a 3-Tab Shingle.**

Notch   *SHINGLE*   **Notch**
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**
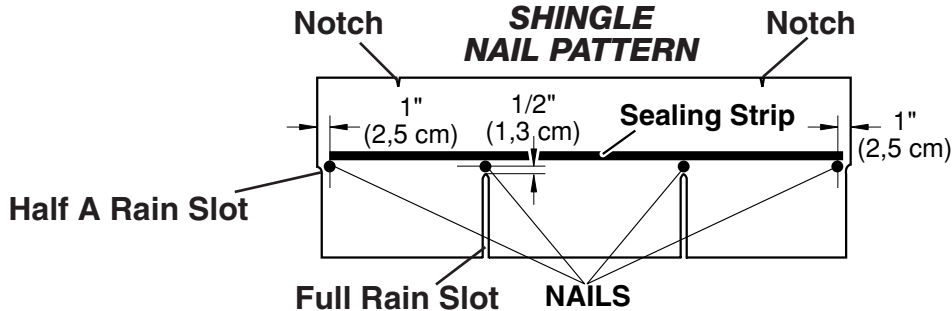
⚠ **NEVER DRIVE FASTENERS INTO OR ABOVE SEALING STRIPS.**

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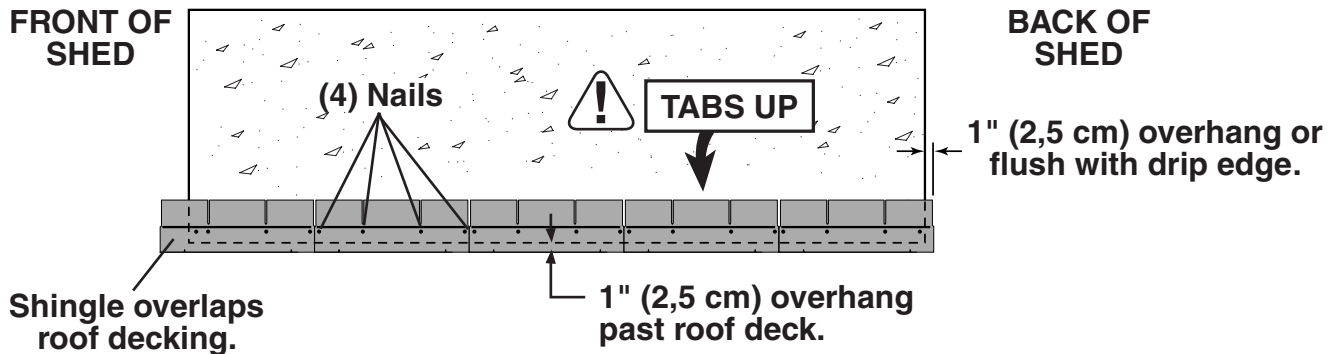
2 Beginning at front of shed, install first row of shingles with notch at 1" past roof edge or flush with drip edge.

Roof Deck

**FRONT OF
SHED**   **BACK OF
SHED**

1"
(2,5 cm)

Flush with starter row.

Notch

- or -

Flush with starter row.

Drip Edge

Notch

55
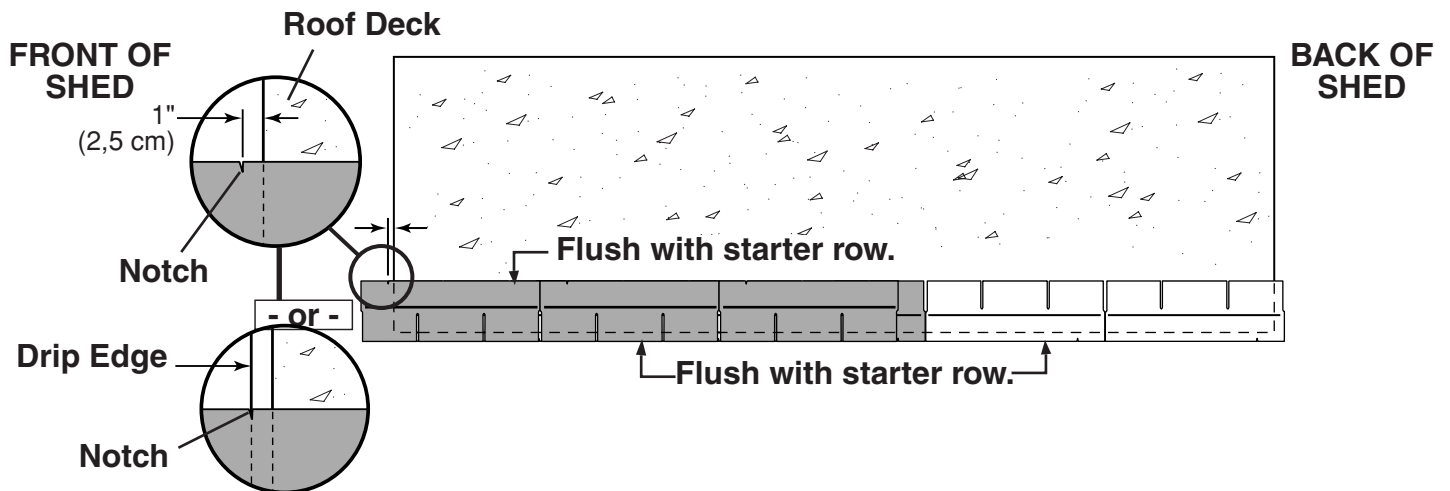
3 Install second row of shingles flush at top of first row's rain slots. Ensure 1" overhang or flush to drip edge at front, stagger each row.

FRONT OF SHED

BACK OF SHED

Bend in roof

1"
(2,5 cm)

Notch

Flush with rain slots.

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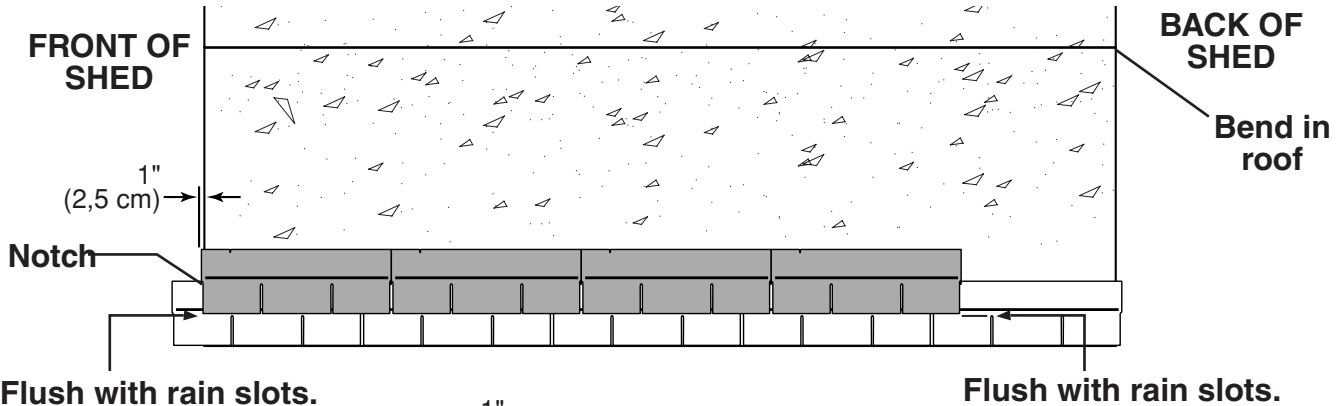
4 Continue installing rows of shingles by staggering at front.

1"
(2,5 cm)

Notch

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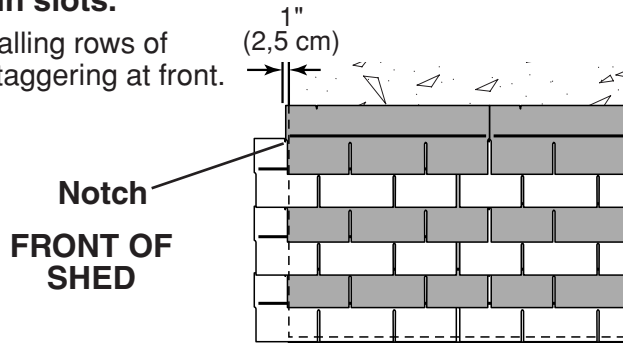
5 The shingle over the bend in the roof will be nailed down. You will need 3" to 4" of this shingle to extend downward over the bend for nailing.

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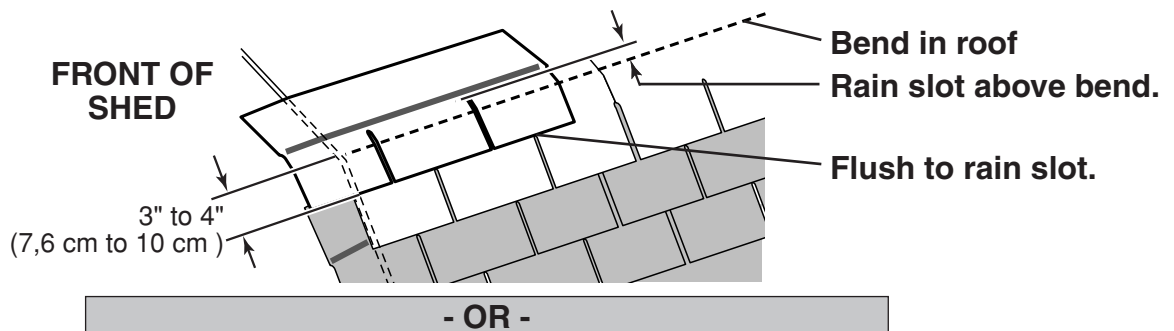
• If the rain slot of the shingle installed over the bend is BELOW the bend, install the shingle over the bend and overlap the rain slot to get the 3" to 4" overlap.

Bend in roof

Rain slot above bend.

FRONT OF SHED

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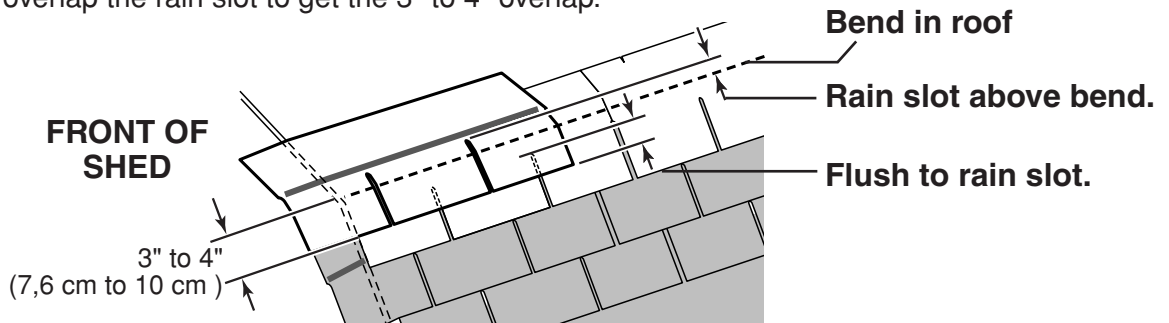
3" to 4"
(7,6 cm to 10 cm)

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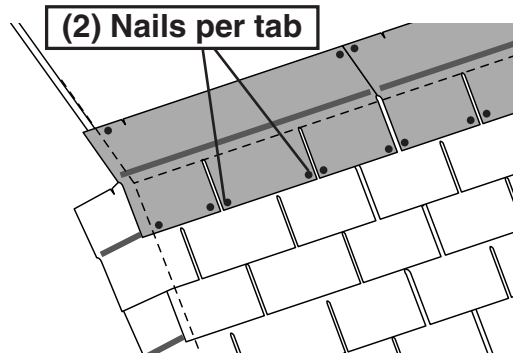
7 Continue installing rows of shingles to the peak. At the peak make sure there is a maximum of 5" or less to the rain slot, as shown below. If shingles overlap at ridge cut to peak with a utility knife.

5"
(12,7 cm) MAX.

Cut Off.

Top of rain slot.

CUT

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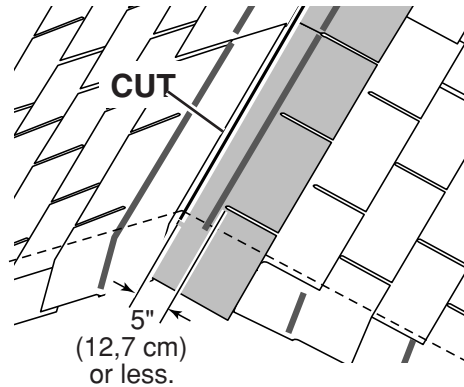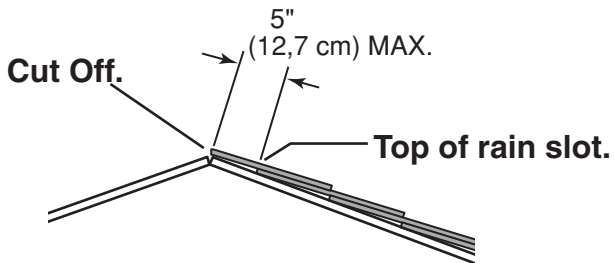
⚠ **• If more than 5" to rain slot you must install another row of shingles.**

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.
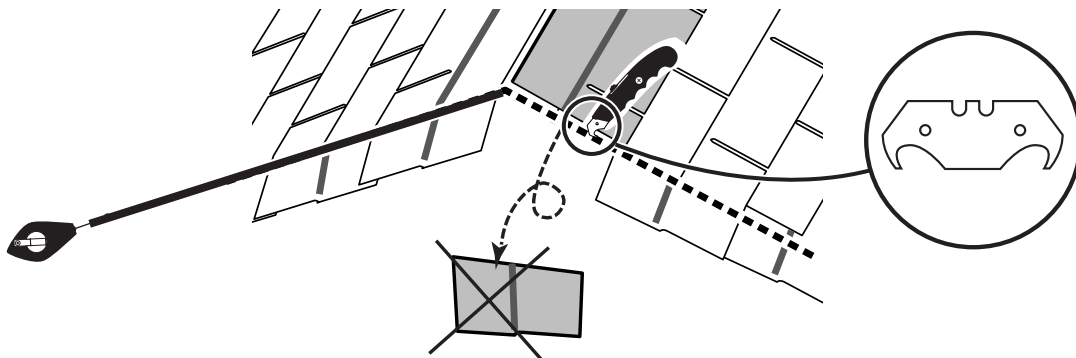
FINISH

11 You have finished shingling your roof. Proceed to capping the ridge.
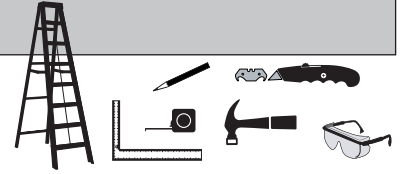
• You will finish off the top of the roof with a ridge cap made from shingles.

√ **BEGIN**

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

2"
(5 cm)

2"
(5 cm)

2"
(5 cm)

2"
(5 cm)

2"
(5 cm)

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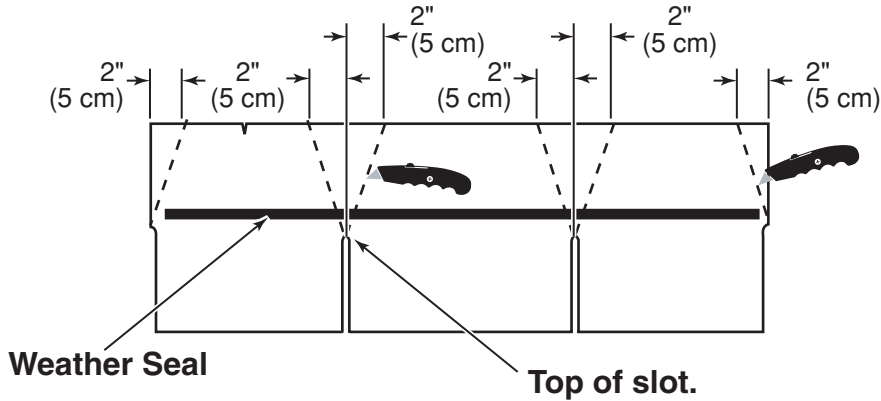
**Score shingle,
then snap-off angled cut.**

Weather Seal

Top of slot.

**20 to 22
Pieces**

Note: • You will need about 20 - 22 cut pieces.

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

(1) Nail per side through weather seal.

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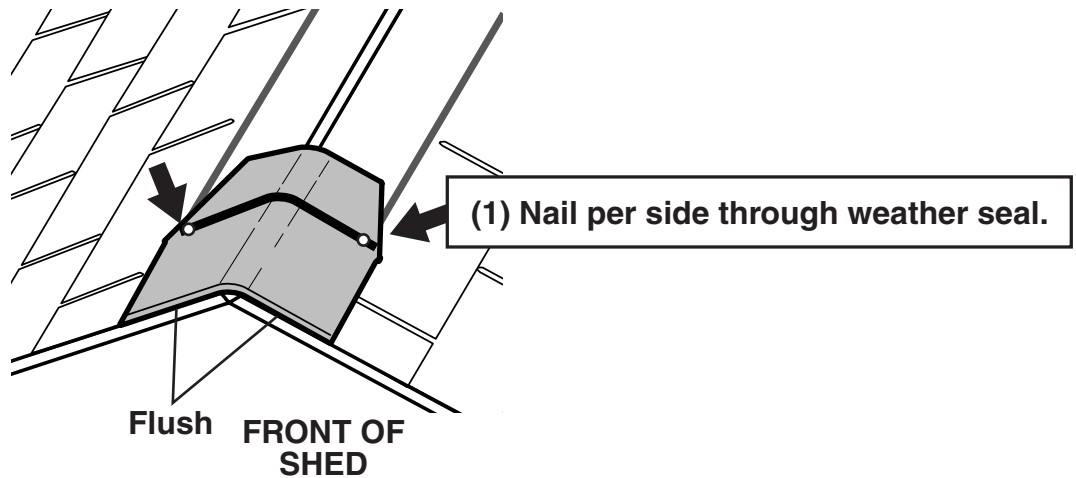
3 Install second ridge cap 5" back, as shown.

(1) Nail per side through weather seal.

5"
12,7 cm

Flush

**FRONT OF
SHED**

58
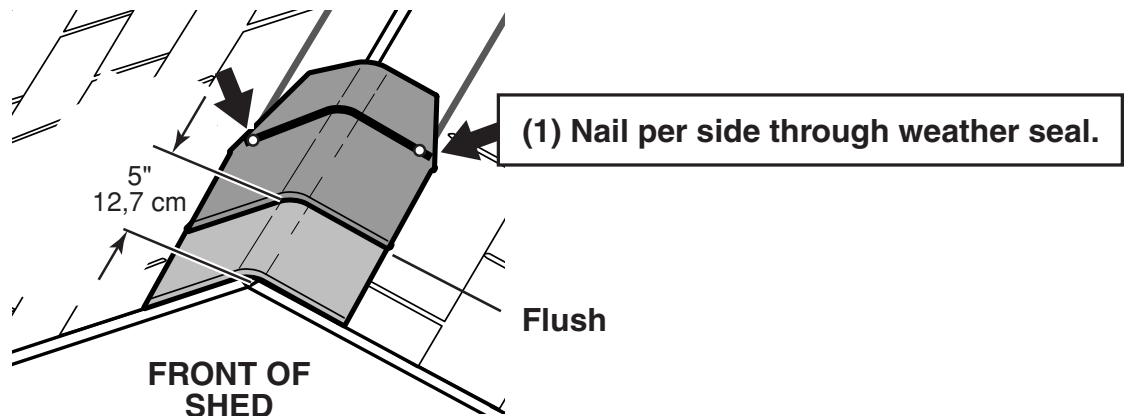
4 Continue installing ridge cap to back of roof.
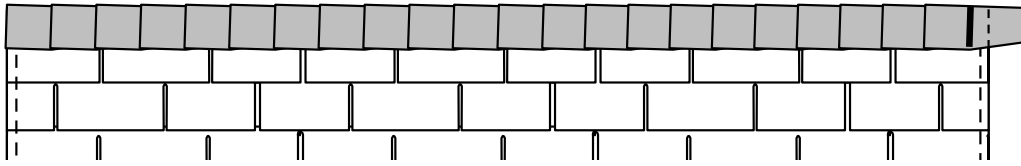
5 Make sure there is 4" between the shingle-color and edge of shingles.

4"
(10 cm)

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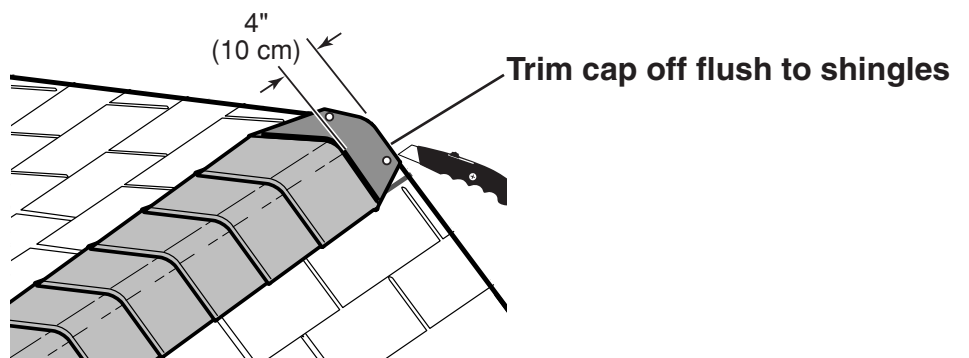
6 When you have 4" minimum of shingle color cut one piece to cap your roof.

Cut at top of rain slot.

Cap
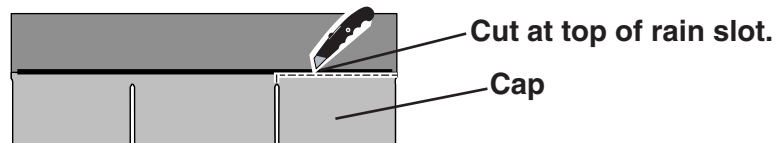
7 Install flush to shingles.

Flush to shingles

(2) Nails per side.
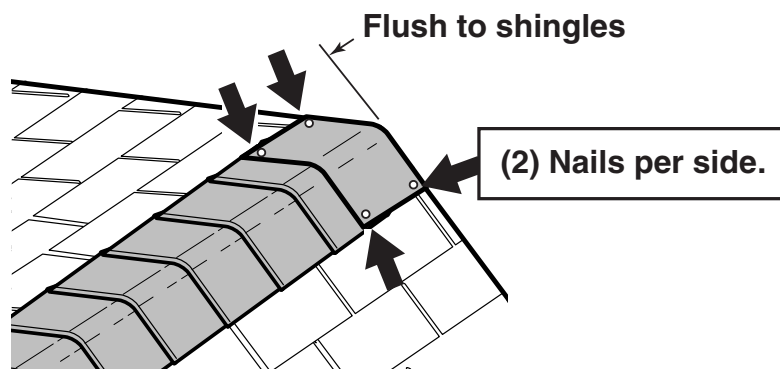
FINISH

8 You have finished your ridge cap.

WARRANTY

Backyard Storage Solutions, LLC warrants the following:

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

> **Limited Conditional Warranty ***

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

CONDITIONS

The warranty is effective only when:

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

REQUIREMENTS

Storage Buildings & Playhouses

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

Gazebos, Pergolas & Timber Buildings

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

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

CLAIM PROCEDURE

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

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

Mail the above information to:

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

*WARRANTY TERMS MAY VARY OUTSIDE THE U.S.A.
IMPORTANT: This is your warranty certificate.
Please complete and mail your warranty card to properly validate your warranty.