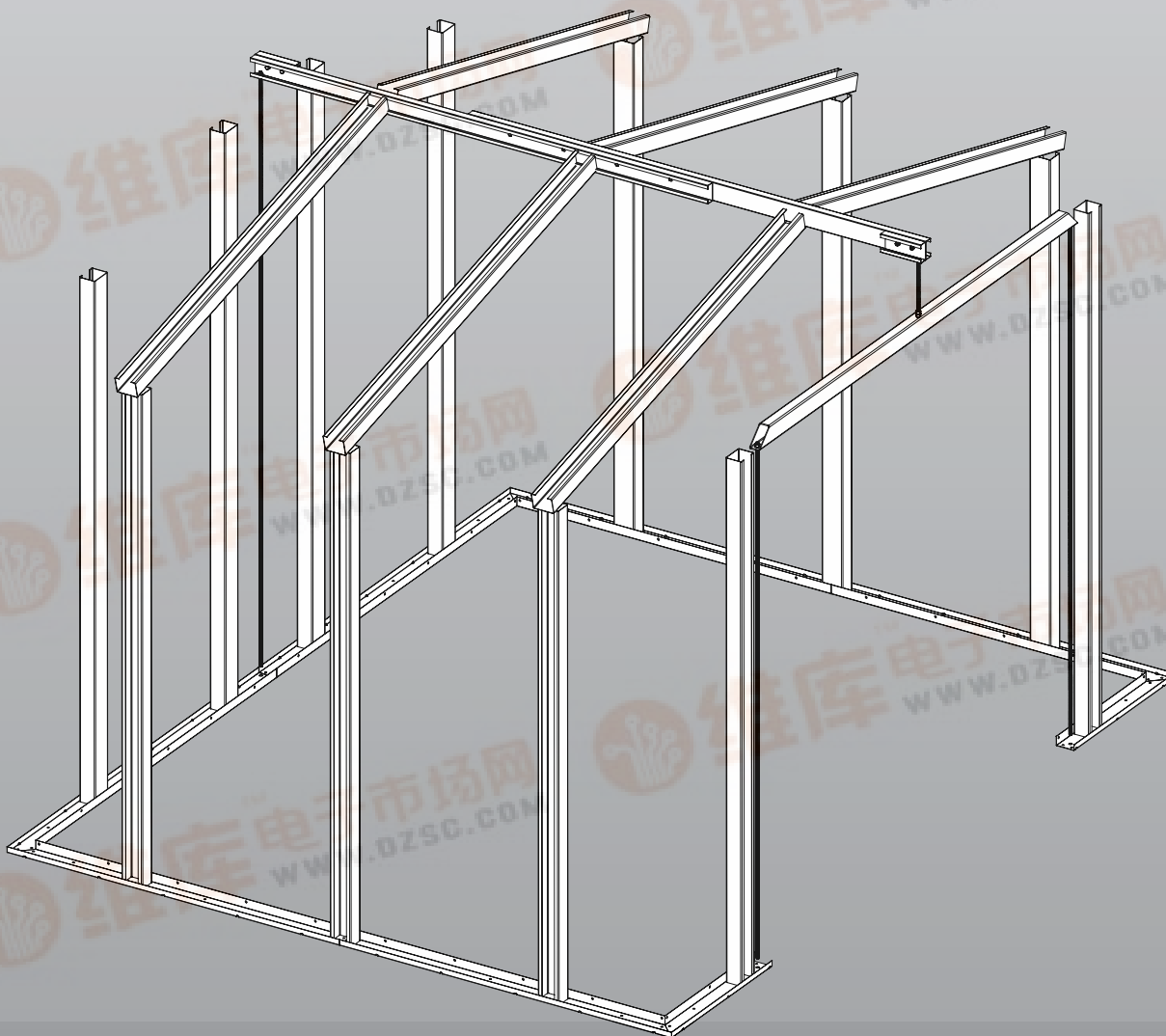




Royal Outdoor Products

HIGH WINDLOAD KIT

FOR MODEL S010, S011, S020 OR S108 10' x 8' STORAGE BUILDINGS



**PLEASE READ OWNER'S MANUAL COMPLETELY
BEFORE ASSEMBLING YOUR BUILDING.**

Congratulations on your purchase of a fine windload kit from Royal Outdoor Products Co. Your windload kit is for use with the Winchester S010, S011, S020 and Woodbridge S108 models only. Please follow these easy steps along with your storage building manual to ensure that your windload kit will be installed properly.

IMPORTANT: THE FOUNDATION OPTIONS AS OUTLINED IN THE S010, S011, S020 AND S108 MANUALS MAY NOT BE SUITABLE FOR USE WITH THE WINDLOAD KIT IN YOUR AREA. PLEASE CONSULT YOUR LOCAL BUILDING DEPARTMENT TO DETERMINE IF THE OPTIONS PROVIDED MEET YOUR LOCAL BUILDING CODES.

INCLUDED MATERIALS:



← 60 13/16" (154.5 cm) →

Steel Insert SI1 6 pcs.
60 13/16" (154.5 cm)



← 68 25/32" (174.7 cm) →

Steel Insert SI2 6 pcs.
68 25/32" (174.7 cm)



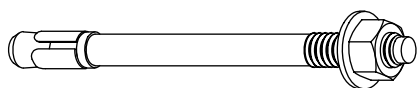
← 73 1/32" (185.5 cm) →

Steel Insert SI3 4 pcs.
73 1/32" (185.5 cm)

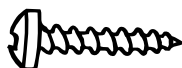


← 80 21/32" (204.9 cm) →

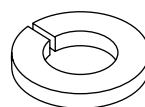
Steel Insert SI4 2 pcs.
80 21/32" (204.9 cm)



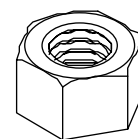
Sleeve Anchor SA 3 pcs.
5" x 3/8"



Screw AS 210 pcs.
#10 x 3/4" (1.90cm)



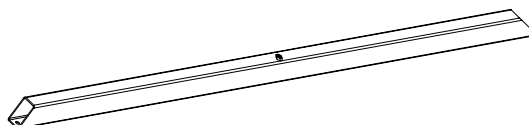
3/8" Lock Washer LW
8 pcs.



3/8" Hex Nut HN
5 pcs.



3/8" Rebar - 9 1/8" length RE1 1 pc.



Lintel Insert LT1 1 pc.



3/8" Rebar with coupling - 72 13/16" length RWC1 2 pcs.

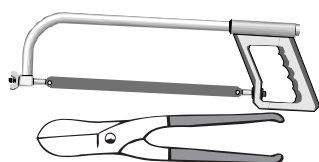


3/8" Rebar with coupling - 83 13/16" length RWC2 1 pc.

ADDITIONAL MATERIALS NEEDED: (NOT INCLUDED)



9/16" Open Box Wrench



Hacksaw or Cutters



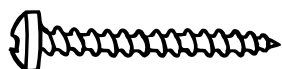
Measuring
Tape



Power Drill with Phillips®
(#2) or a #2 square bit



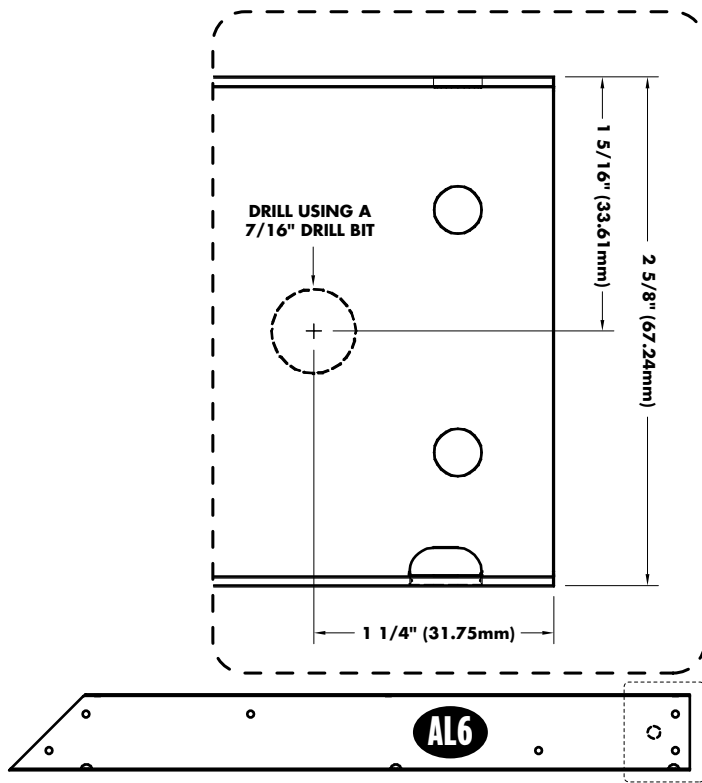
9/64" metal drill bit
7/16" metal drill bit
1/2" metal drill bit
3/8" concrete drill bit



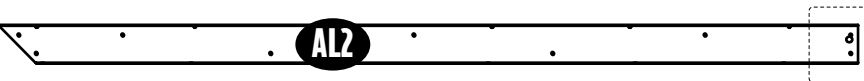
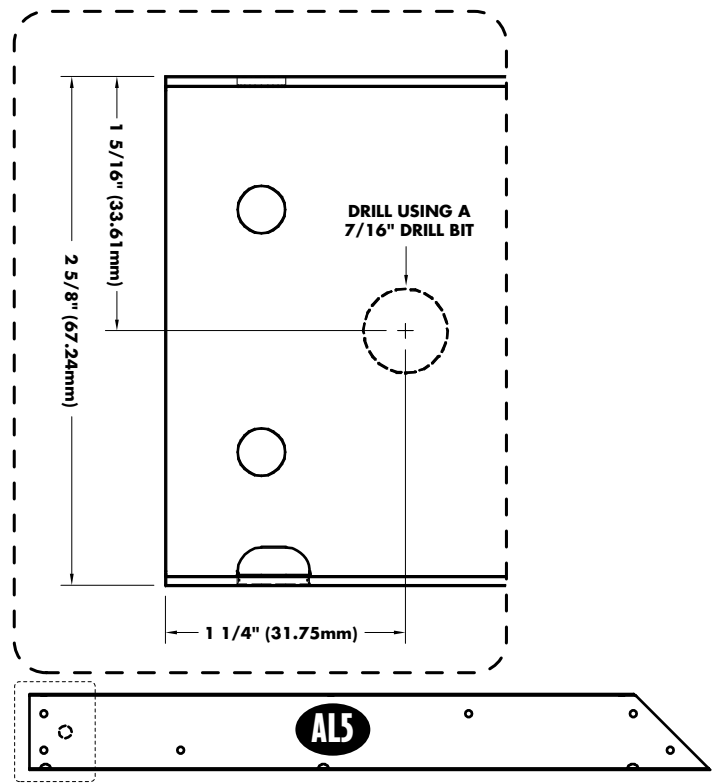
3/16" & 1/4" Concrete Screw

Before assembling any of the storage building you must drill a guide hole into 3 of the base channel pieces as outlined in steps 1, 2 and 3.

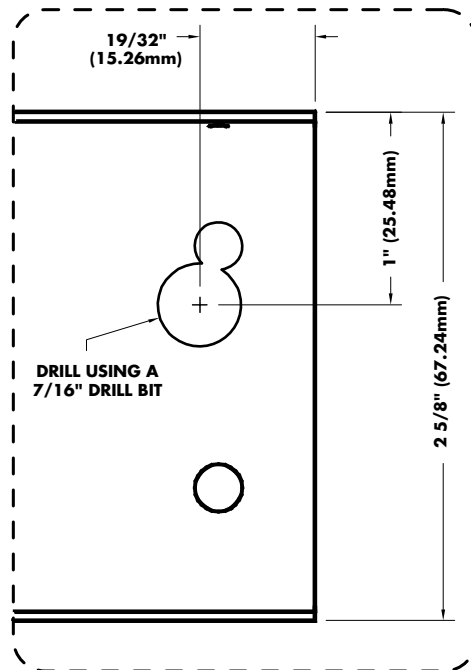
- 1** Using the diagram as a guide, drill a 7/16" hole into the left front Base Channel AL6 (in shed kit) as indicated using a metal bit.



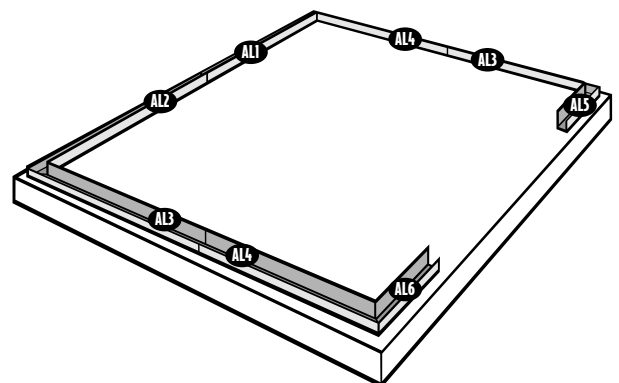
- 2** Using the diagram as a guide, drill a 7/16" hole into the right front Base Channel AL5 (in shed kit) as indicated using a metal bit.



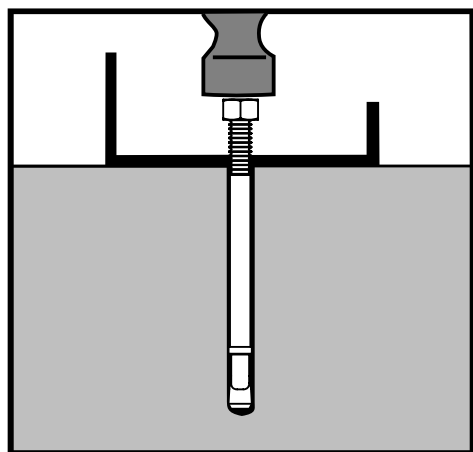
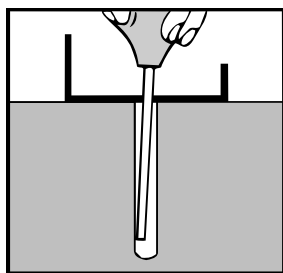
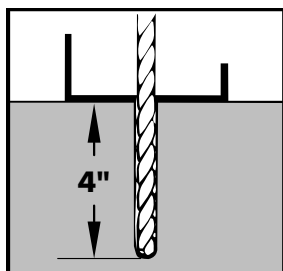
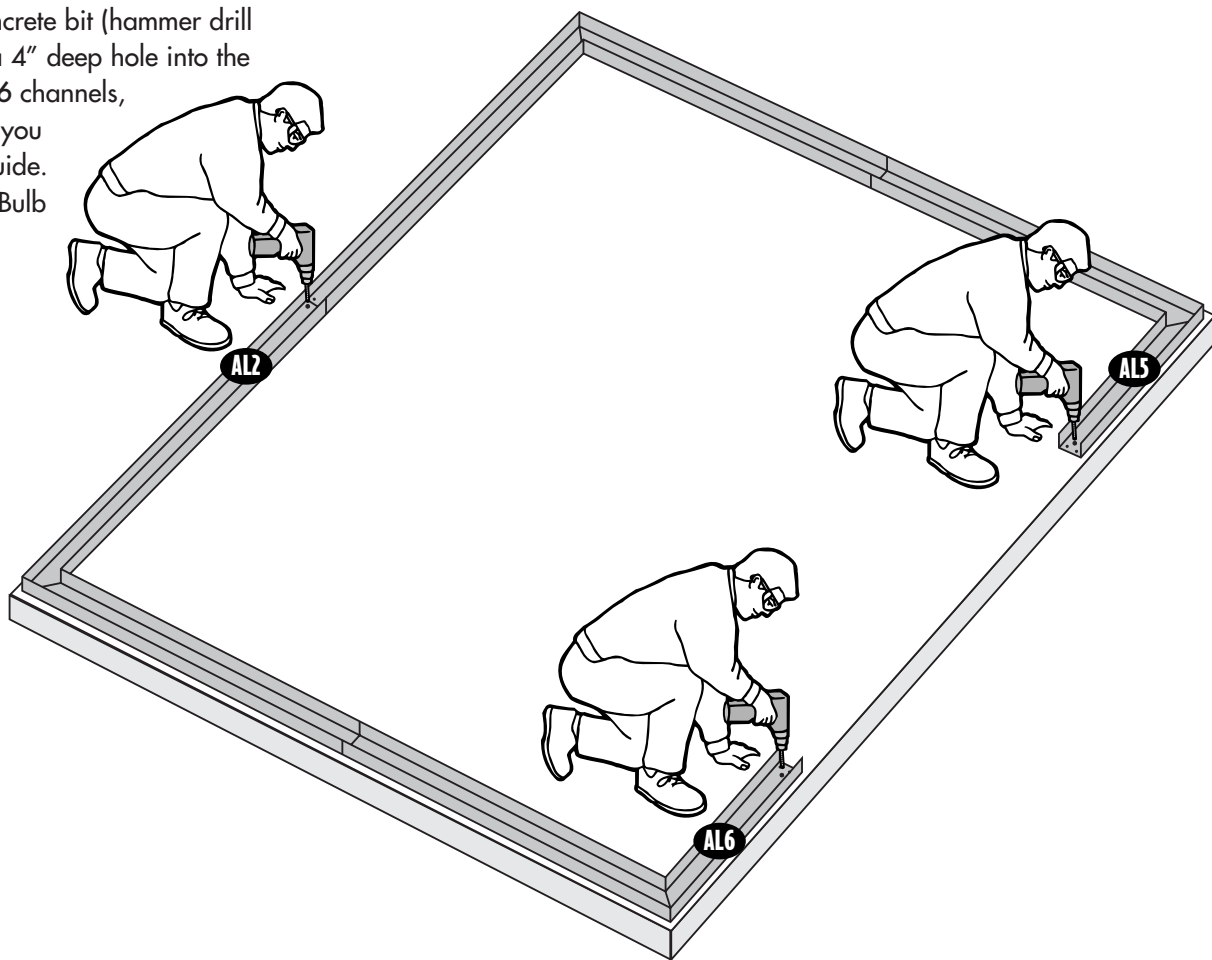
- 3** Using the diagram as a guide, drill a 7/16" hole into the right rear Base Channel AL2 (in shed kit) as indicated using a metal bit.



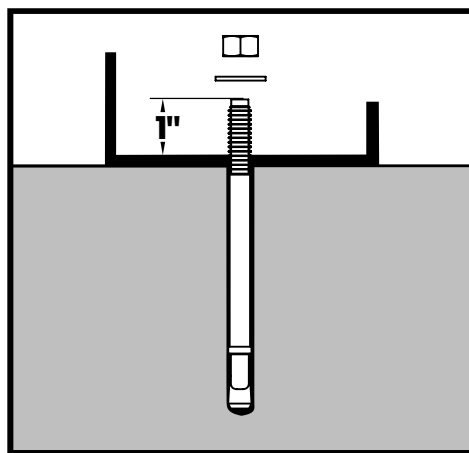
- 4** Position and square all Base Channels to the concrete foundation as outlined in step 1 of the storage building assembly manual. Secure all Base Channels to the foundation as in step 2 of the manual except use the 3/16" x 1 1/4" concrete screws (not included) and install a screw at all 61 screw hole locations.



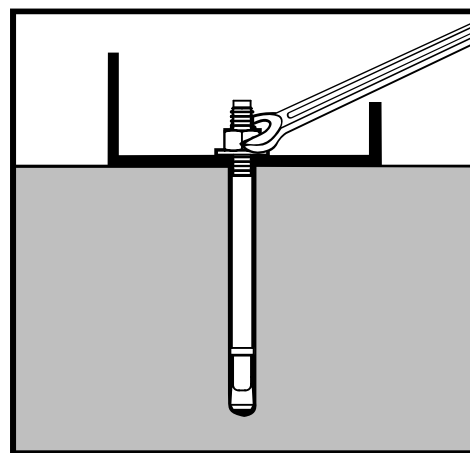
5 Using a 3/8" concrete bit (hammer drill suggested), drill a 4" deep hole into the AL2, AL5 and AL6 channels, using the 3 holes you drilled in steps 1-3 as a guide. Clean hole with Blow Out Bulb (not provided).



6 Thread the nut onto the Sleeve Anchor SA until flush with the top of the sleeve. Using a hammer, drive the Sleeve Anchors SA into the holes so that 1" remains above the surface at all 3 hole locations. Remove the nut when anchors are in place.



7 Ensuring that 1" of the Sleeve Anchor SA is above the surface, place the Flat Washer and Nut onto the Sleeve Anchor SA and tighten until finger tight.

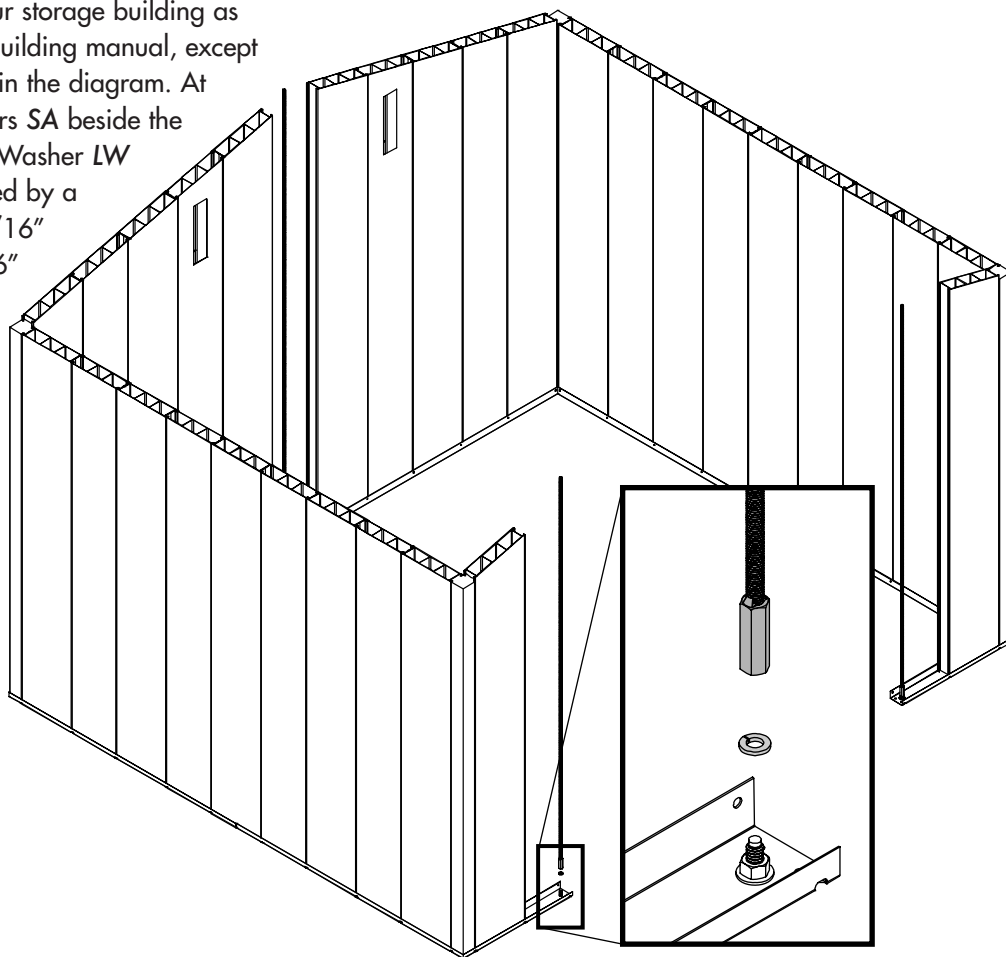


8 Tighten the Sleeve Anchors SA an additional 2-3 turns using a 9/16" open box wrench at all 3 hole locations.



9

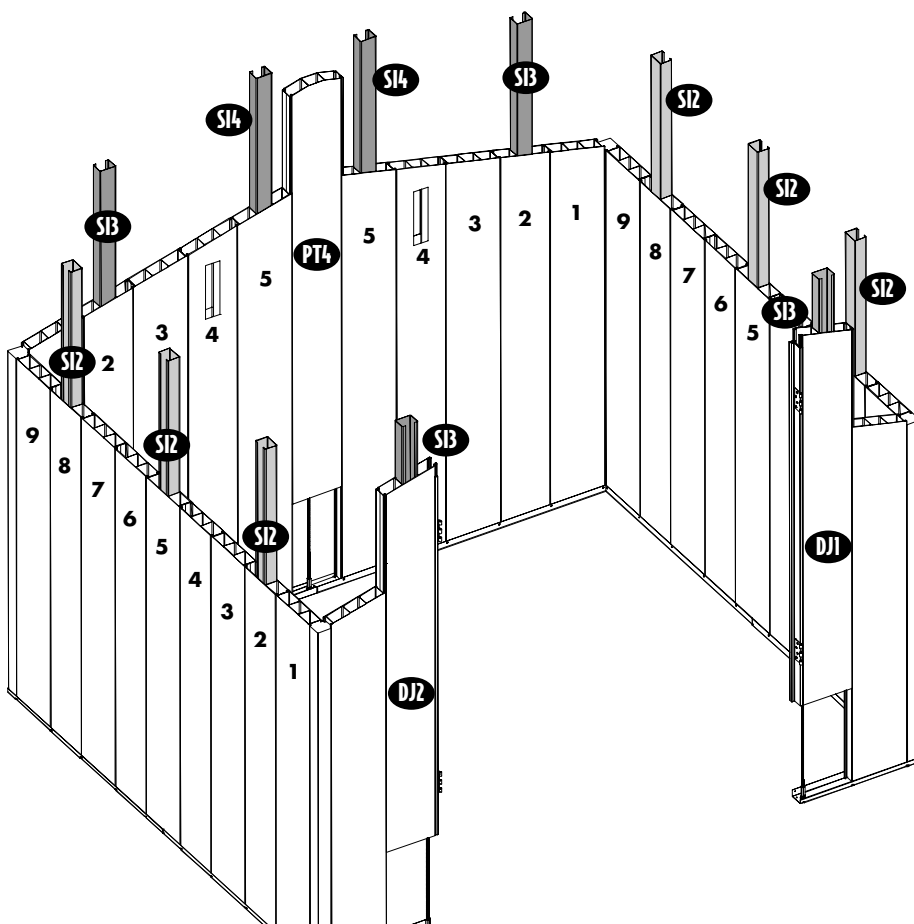
Assemble the walls of your storage building as indicated in the storage building manual, except for the panels not shown in the diagram. At each of the Sleeve Anchors *SA* beside the door opening, place a 3/8" Lock Washer *LW* over the Sleeve Anchor *SA* followed by a 3/8" Rebar with Coupling 72 13/16" length *RWC1*. Tighten with a 9/16" open box wrench until the Lock Washer *LW* compresses. Repeat this step at the center of the rear track using the Rebar with Coupling 83 13/16" length *RWC2* and Lock Washer *LW*.



10

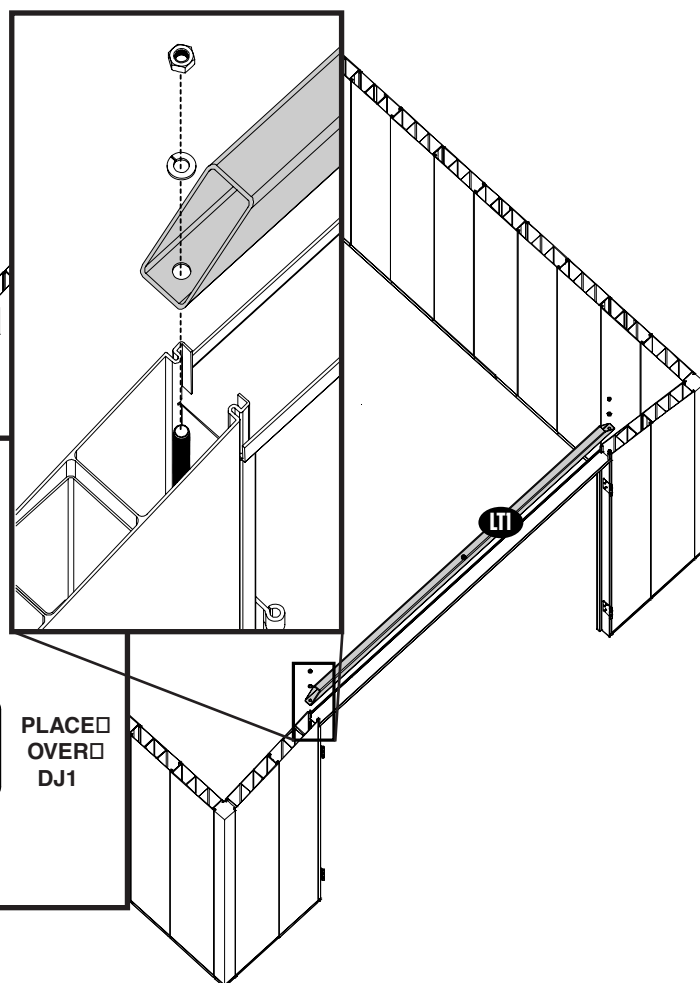
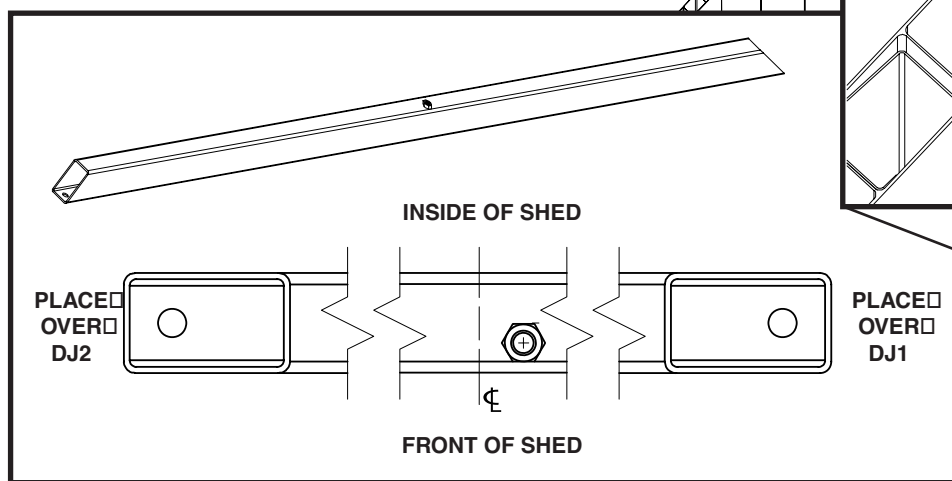
Insert the remaining back wall panel *PT4* to complete the rear wall ensuring the rebar is in the center cavity.

Insert the door jamb panels *DJ1* and *DJ2* at the front right and left respectively, ensuring the rebar is in the cavity nearest the door opening. Next, slide the Steel Inserts *SI2-SI4* into the wall at the panels indicated in the diagram. The Steel Inserts must be placed into the center cavity of the panel with the open side of the insert facing the exterior of the shed. Steel Inserts *SI2* go on the side walls at the panels shown in the diagram. Two Steel Inserts *SI3* go on the front walls into the *DJ1* and *DJ2* panels. The remaining *SI3* & *SI4* Steel Inserts go on the back wall at the panels shown in the diagram.



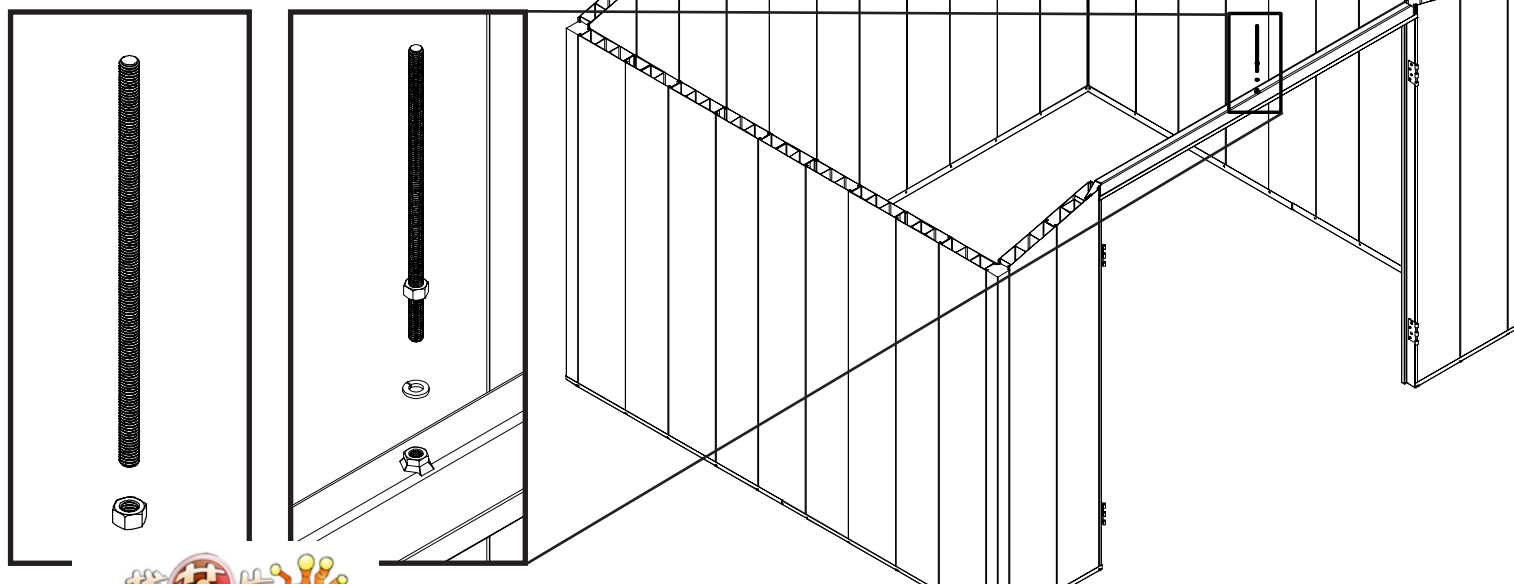
11

At **Step 21** of the storage building manual, orientate the steel Lintel Insert **LT1** so that the welded hex nut is to the front of the storage building. The nut should be slightly offset to the right of center. With the PVC Door Lintel **LN1** in place, position the steel Lintel Insert **LT1** ensuring the hole at each end is over the Rebar. Next, secure the steel Lintel Insert **LT1** to the Rebar with a 3/8" Lock Washer **LW** and Hex Nut **HN**. Tighten until the Lock Washer **LW** fully compresses.



12

Thread a 3/8" Hex Nut **HN** about an inch up the 9 1/8" rebar **RE1**. Place a 3/8" Lock Washer **LW** over the welded Hex Nut on top of the steel Lintel Insert **LT1** and thread the 3/8" Rebar **RE1** into the Hex Nut until it bottoms out. Lower the 3/8" Hex Nut **HN** down the Rebar and tighten until the Lock Washer **LW** fully compresses. Continue at step 22 of the storage building manual.



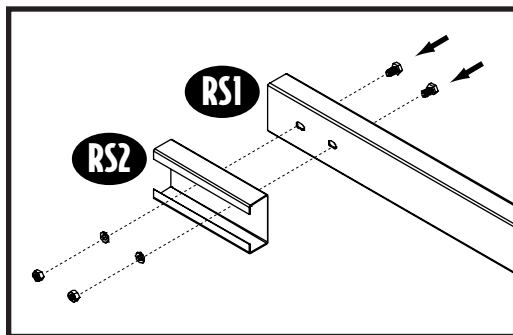
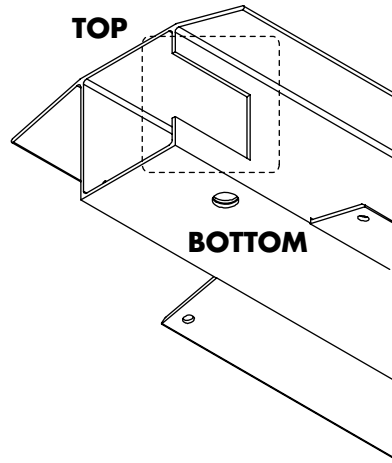
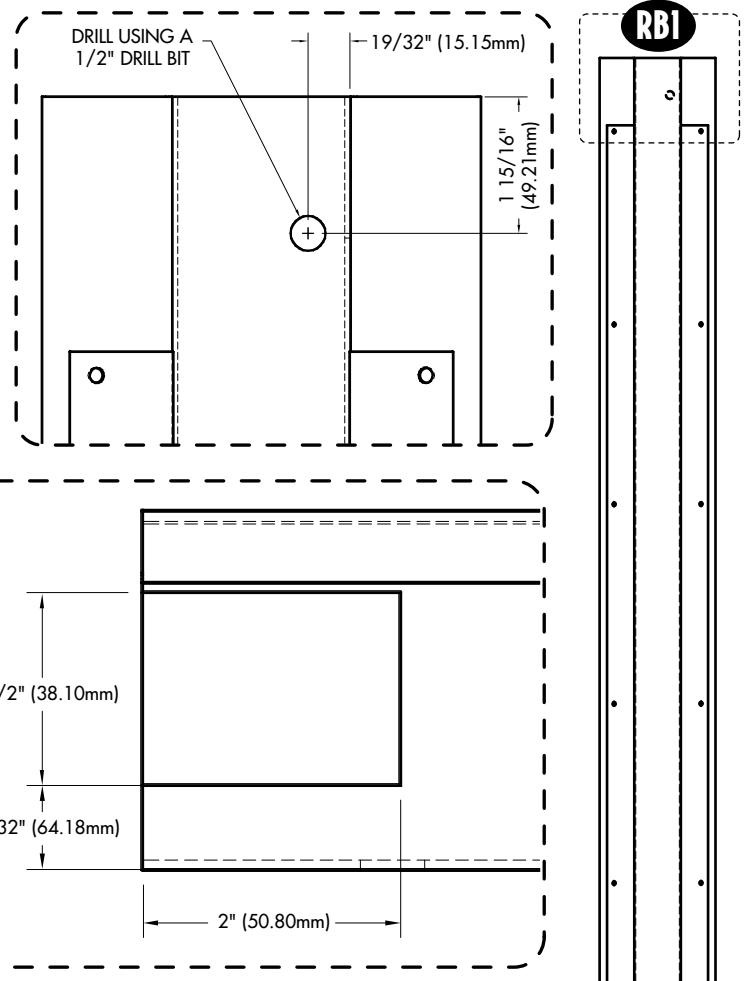
Steps 13, 14, 15 & 16 replace the Ridge Beam Assembly steps on page 12 of the storage building manual.

13

Turn a **RB1** Ridge Beam Section upside down and drill a 1/2" hole through the bottom face, at the location indicated in the diagram.

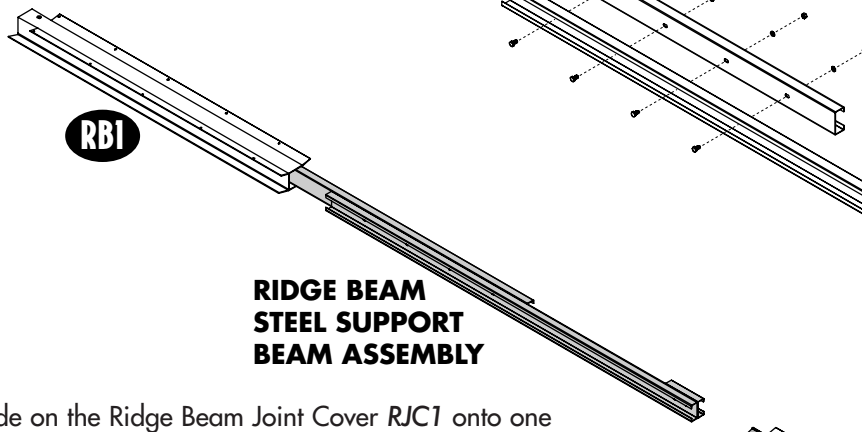
Using a hacksaw or other cutting tool, cut away a section approximately 2" x 1 1/2" on the right side of the **RB1** at the location indicated in the diagram. This opening provides clearance to tighten the nuts in step 16.

Repeat these steps on the other **RB1** Ridge Beam Section.



14

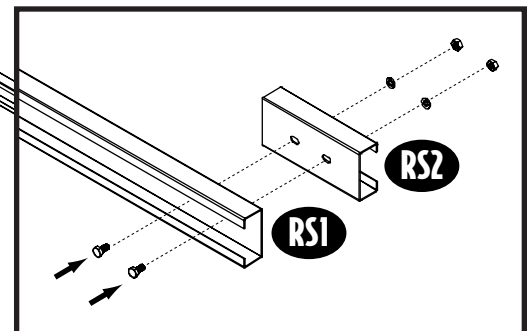
Assemble the Ridge Beam Steel Support Beams, supplied with storage building kit, as shown in the diagram. Note that the longer **RS1** piece is on the left side at the front and at the right side at the back. Also note that the bolt goes in from the longer **RS1** to the shorter **RS2** at the front and back.



**RIDGE BEAM
STEEL SUPPORT
BEAM ASSEMBLY**

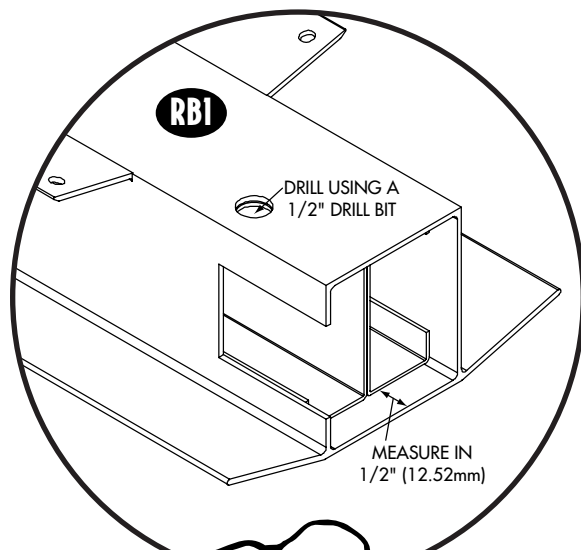
Slide on the Ridge Beam Joint Cover **RJC1** onto one end of a **RB1** Ridge Beam Section as in step 27a of the storage building manual. Slide the assembled Ridge Beam

Beams into the **RB1** Ridge Beam Section. The ridge beam assembly is



RJC1

RB1



15

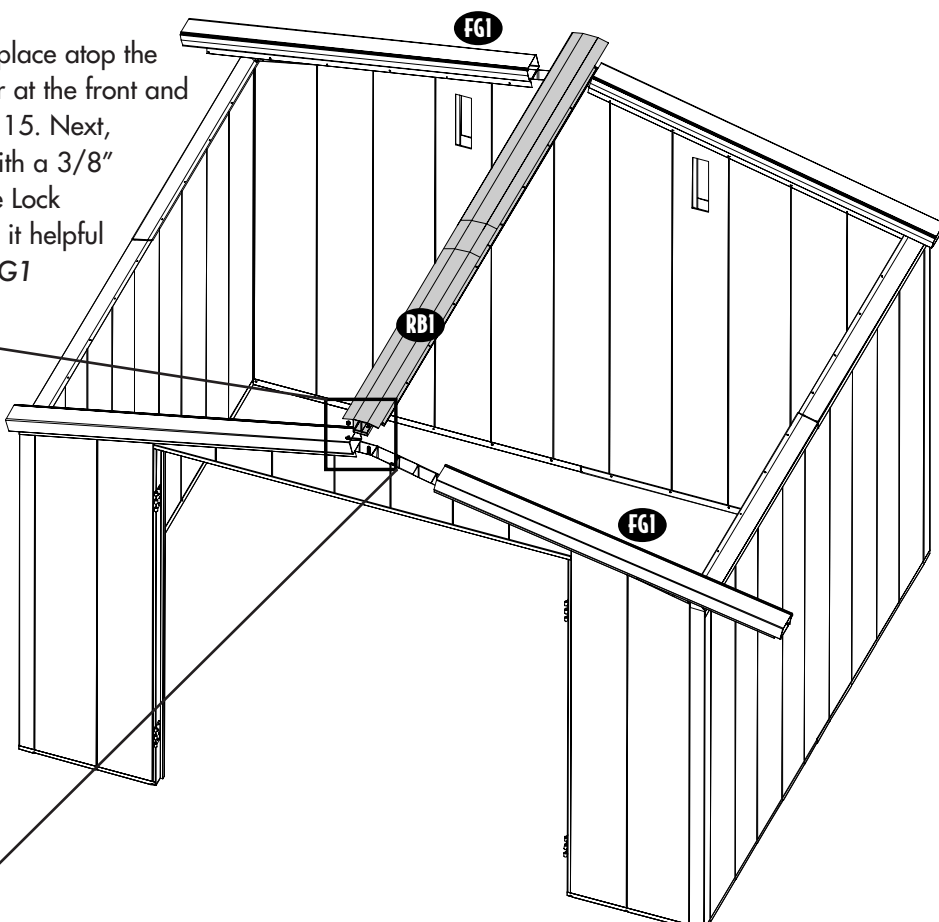
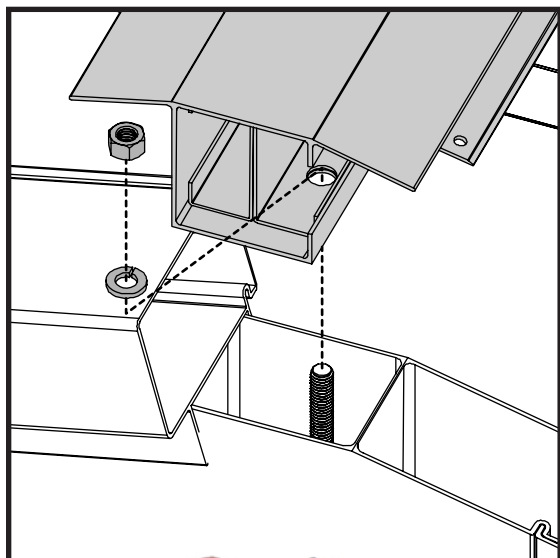
Ensuring that you have inserted the Ridge Beam Steel Support Beams exactly as shown in Step 14, measure in $1/2"$ (12.52 mm) from the front face of the **RB1** Ridge Beam Section and align the Ridge Beam Steel Support Beam with that point. Using the hole you drilled in Step 13 as a guide, drill through the Ridge Beam Steel Support Beam using a $1/2"$ metal drill bit. Repeat to drill an identical $1/2"$ hole at the other end of the ridge beam. Turn the ridge beam assembly over and silicone the joint at the center. Slide the Ridge Beam Joint Cover **RJC1** over the joint as in steps 27b and 27c of the storage building manual.



16

Place the assembled ridge beam into place atop the storage building and thread the Rebar at the front and back through the holes drilled in Step 15. Next, secure the ridge beam to the Rebar with a $3/8"$

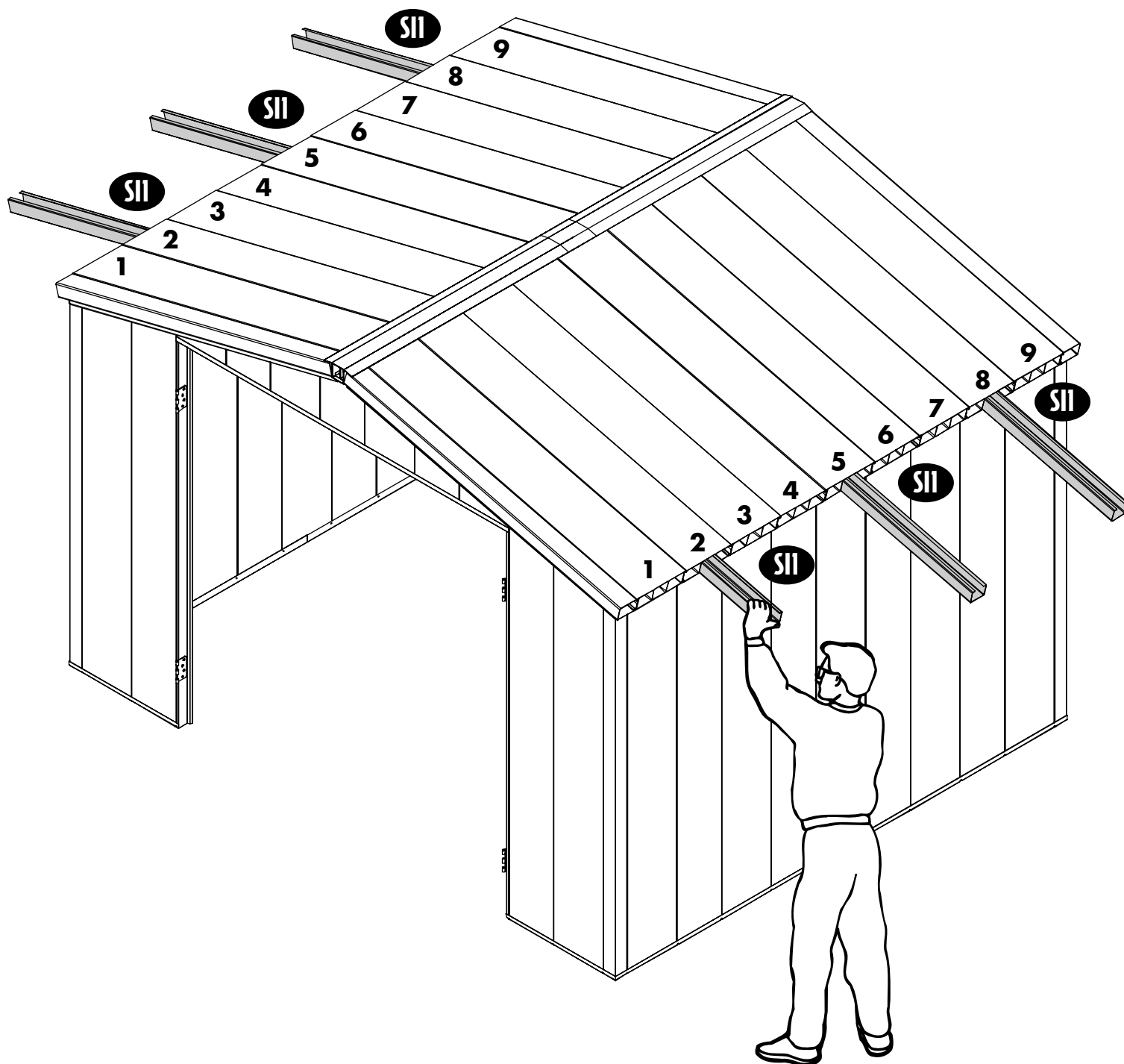
Lock Washer **LW** and Hex Nut **HN**. Tighten until the Lock Washer **LW** fully compresses. **NOTE:** You may find it helpful to slide the front right and rear left Fascia Gables **FG1** back temporarily to complete this step.



17

After all roof panels have been installed, after **Step 33** of the storage building manual, insert the remaining Steel Inserts *SI1* into the roof at the panels indicated in the diagram. Steel Inserts *SI1* must be placed into the center cavity of the panel with the open side of the insert facing the exterior of the shed.

NOTE: Steel Inserts *SI1* can not be installed into Skylight Panels. If you have a Skylight Panel at a location that requires a Steel Insert you must move the Skylight Panel to another location on the roof.



Continue with steps 34-50 of the storage building manual installing and aligning the doors, installing the finishing trim and installing the screws before continuing on to the next step.

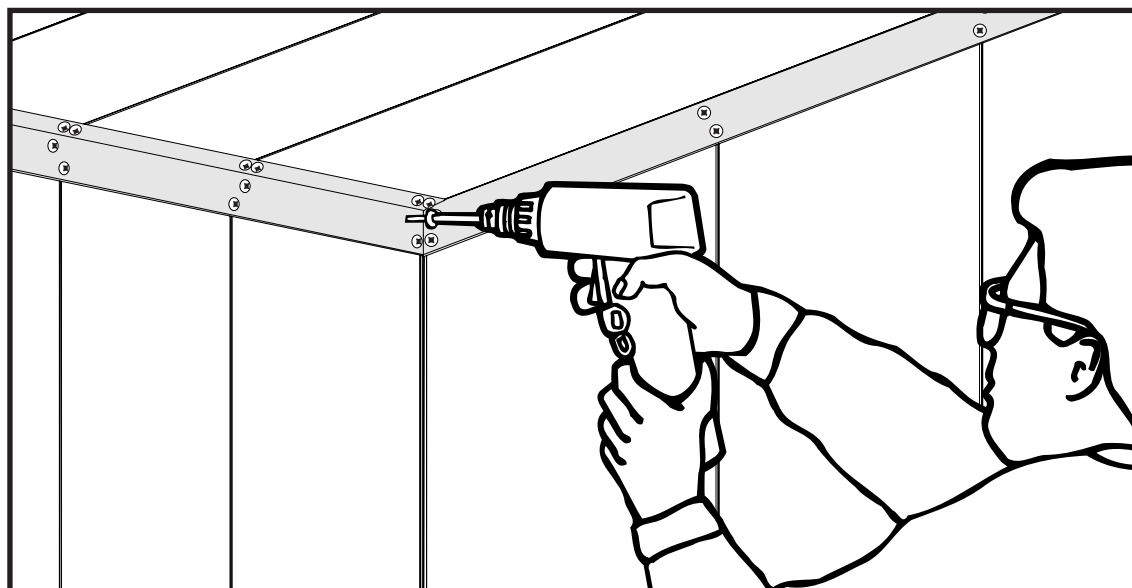
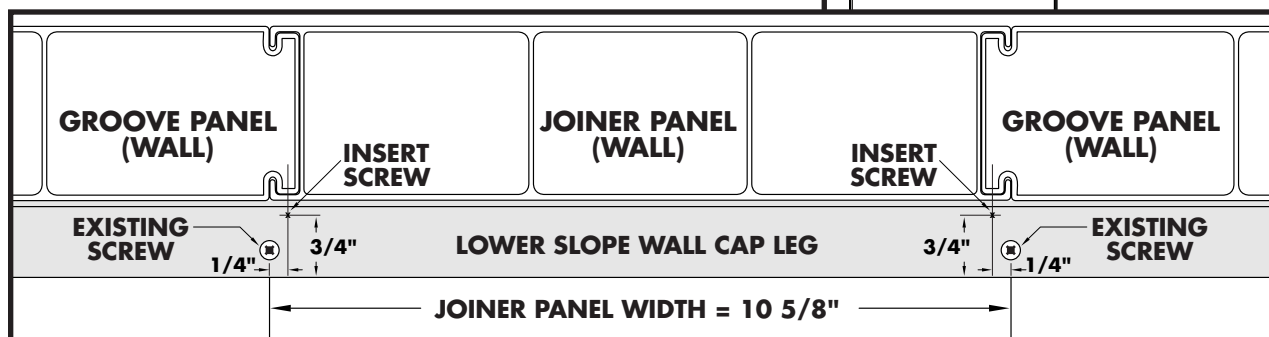
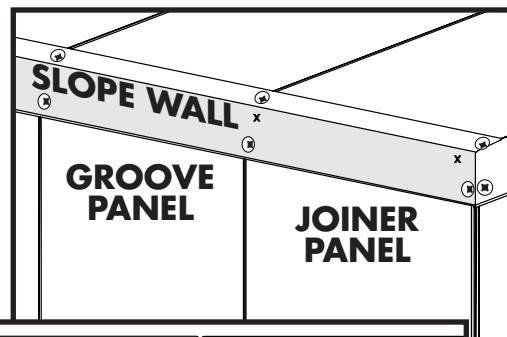


18

To increase the building's stability and strength, an additional screw must be added near each existing screw. Begin on the side walls, at the lower leg

of the Slope Wall Caps. From the existing screw, measure $1/4"$ towards the joiner and measure $3/4"$ up from the bottom edge of the Slope Wall Cap leg and insert a #10 x $3/4"$ screw AS. Follow this step throughout the building at all lower Slope Wall Cap screw locations.

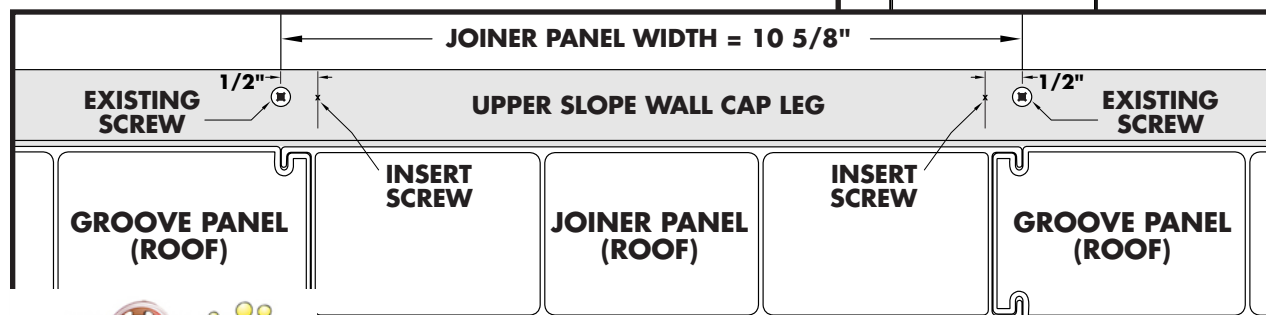
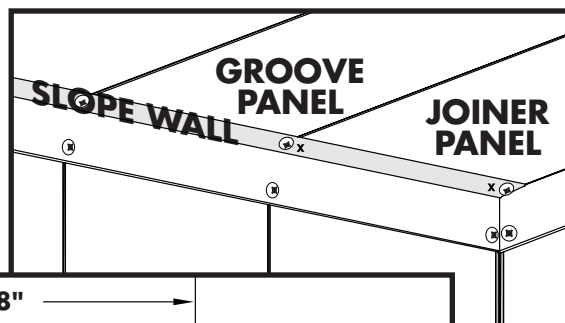
NOTE: Take care not to overtighten screws.



19

At the upper leg of the Slope Wall Caps. From the existing screw, measure $1/2"$ in from the center of each screw hole location and insert a #10 x $3/4"$ screw AS. Repeat this step throughout the interior of the building at all upper Slope Wall Cap screw locations.

NOTE: Take care not to overtighten screws.

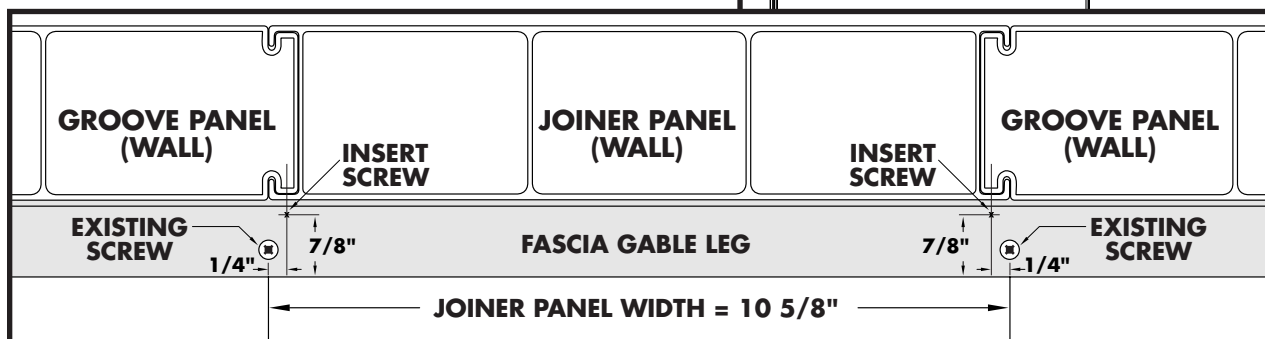
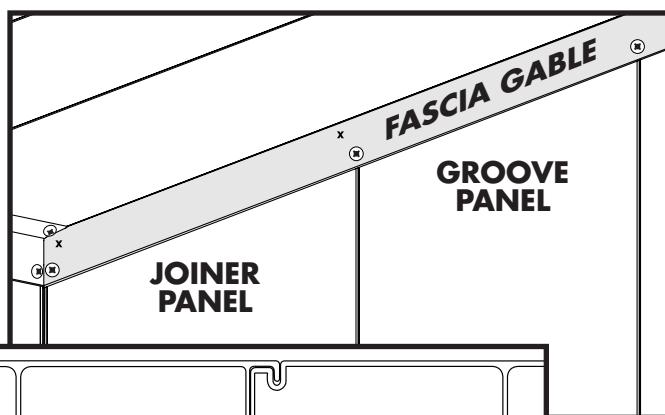


20

Continue at the front and back walls, at the Fascia Gables. From the existing screw, measure $1/4"$ towards the joiner and $7/8"$ up from the bottom edge of the Fascia

Gable leg and insert a #10 x $3/4"$ screw AS. Follow this step throughout the building at all Fascia Gable screw locations.

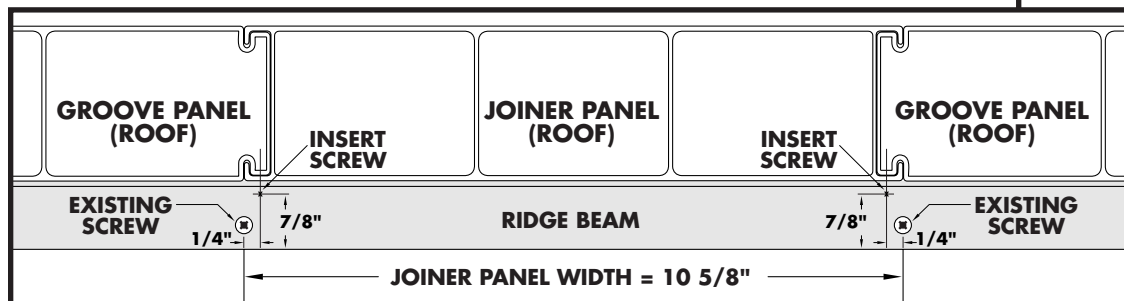
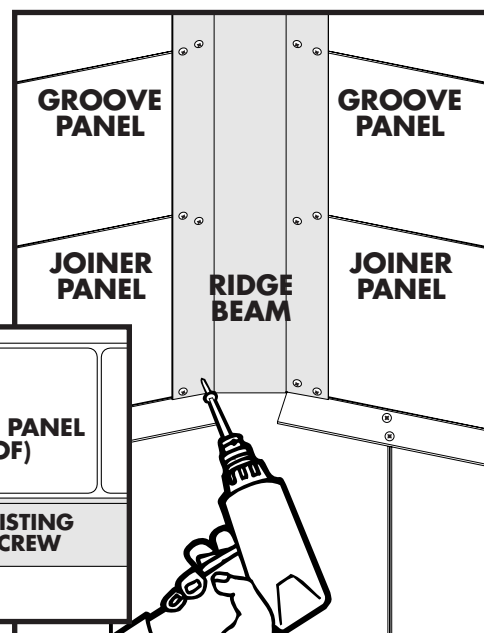
NOTE: Take care not to overtighten screws.



21

At the Ridge Beam, from the existing screw, measure $1/4"$ towards the joiner and $7/8"$ up from the bottom edge of the Ridge Beam and insert a #10 x $3/4"$ screw AS. Follow this step throughout the building at all Fascia Gable screw locations.

NOTE: Take care not to overtighten screws.

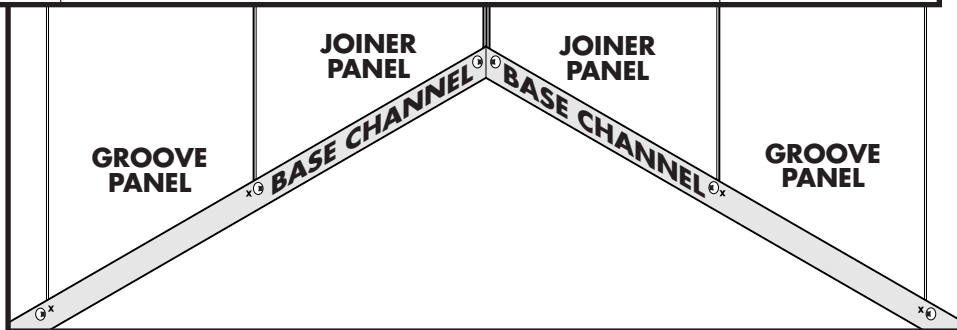
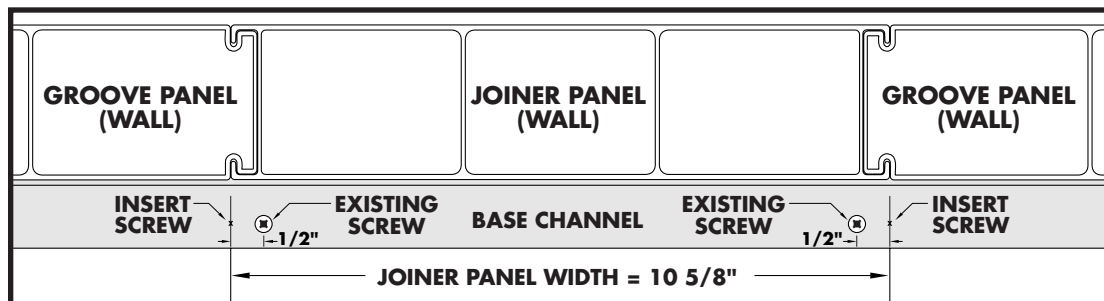


22

Finally, reinforce the Base Channels. The screws at the Base Channels are

not at the seams of the panels. Drill the pilot holes for the reinforcement screws at the seams of the panels (approximately $1/2"$ inch in from the existing screws).

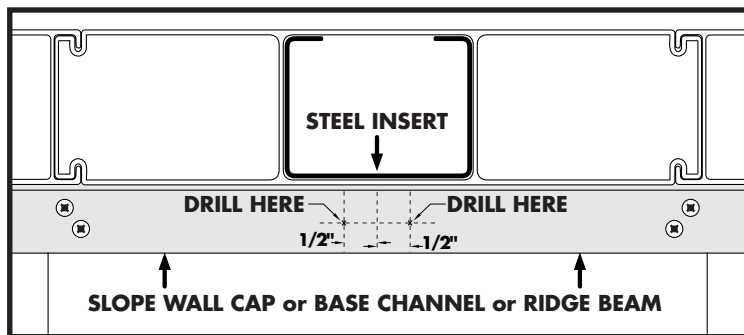
Using a power drill with a $9/64"$ metal bit, drill through the Base Channels, taking care to penetrate only the Base Channel. Repeat this step throughout the interior of the building at all Base Channel screw locations. After you have drilled all the pilot holes, insert the #10 x $3/4"$ screws AS provided with the windload kit into all holes drilled



23

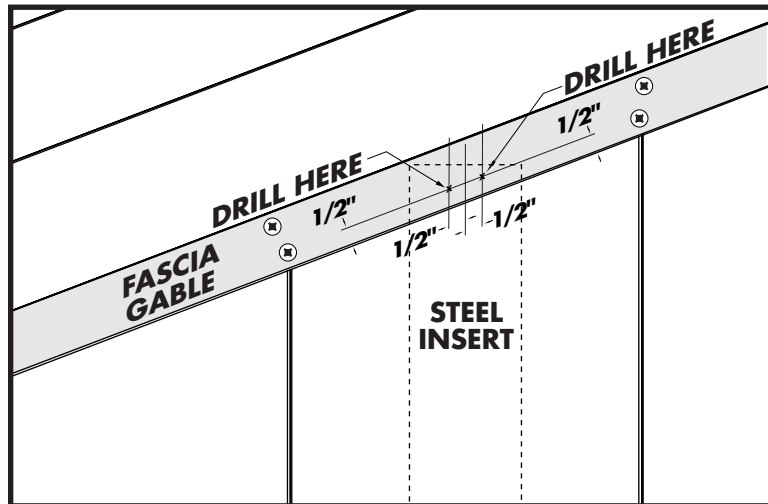
To complete the windload kit installation you must drill pilot holes through the Steel Inserts at the **base channels, slope wall caps and ridge beam**. Use the drawings at step 10

and step 17 to identify where you placed the Steel Inserts. Start at a side wall, at the Slope Wall Cap locate a panel with a Steel Insert. Find the center of the panel and mark a line as in the diagram below. Mark lines 1/2" to the left and right of the center line. Find the mid-point of the leg and mark a line across as in the diagram. Using a power drill with a 9/64" metal bit, drill through the leg of the Slope Wall Cap, making sure to penetrate through to the steel insert. Repeat this step throughout the interior of the building at all Slope Wall Cap, Base Channel and Ridge Beam Steel Insert locations.



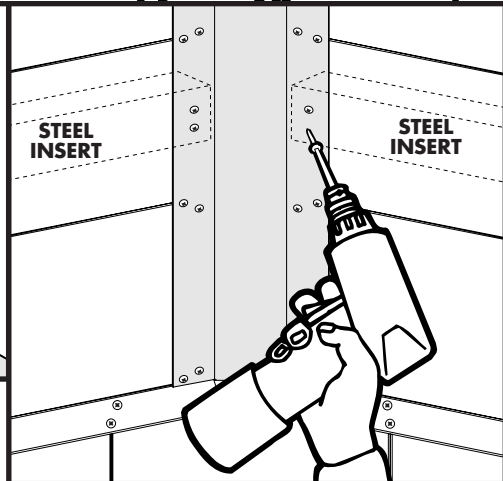
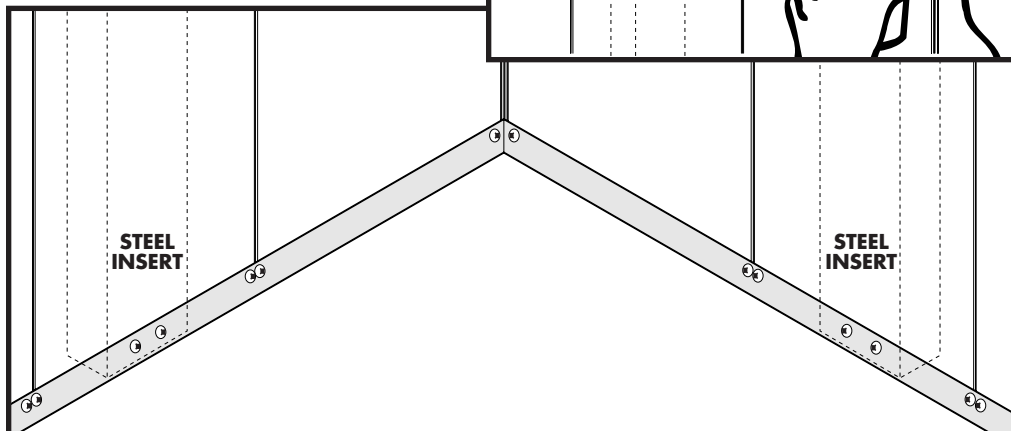
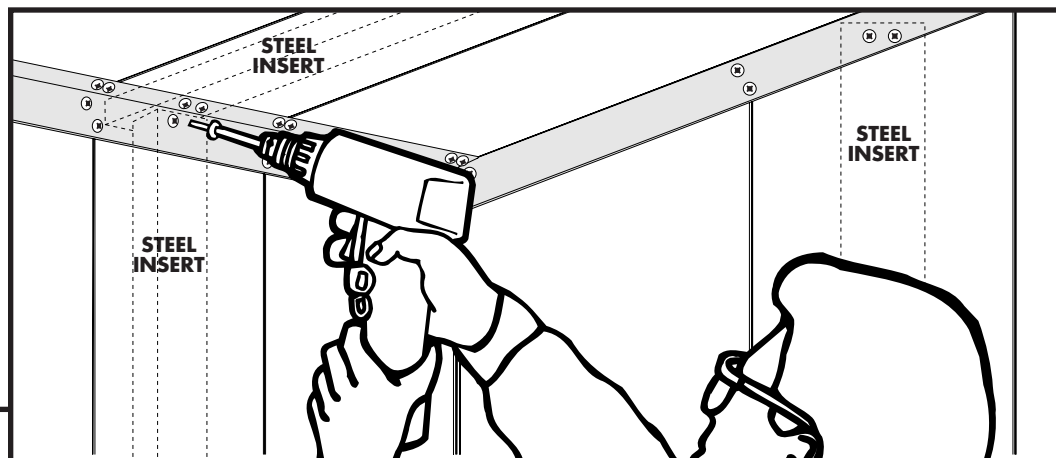
24

Next, drill pilot holes through the Steel Inserts at the **fascia gables**. Use the drawing at step 10 to identify where you placed the Steel Inserts in the front and back walls. At the Fascia Gable locate a panel with a Steel Insert and find the center of the panel and mark a line. Mark lines 1/2" to the left and right of the center line. Measure up 1/2" from the bottom edge of the Fascia Gable and mark a line as in the diagram below. Using a power drill with a 9/64" metal bit, drill through the leg of the Fascia Gable, making sure to penetrate through to the steel insert. Repeat this step throughout the interior of the building at all Fascia Gable locations.



25

After you have drilled all the holes through the steel inserts at the required locations, insert the #10 x 3/4" screws AS provided with the windload kit into all holes drilled in steps 23 & 24. Follow this step throughout the building at all interior screw locations.



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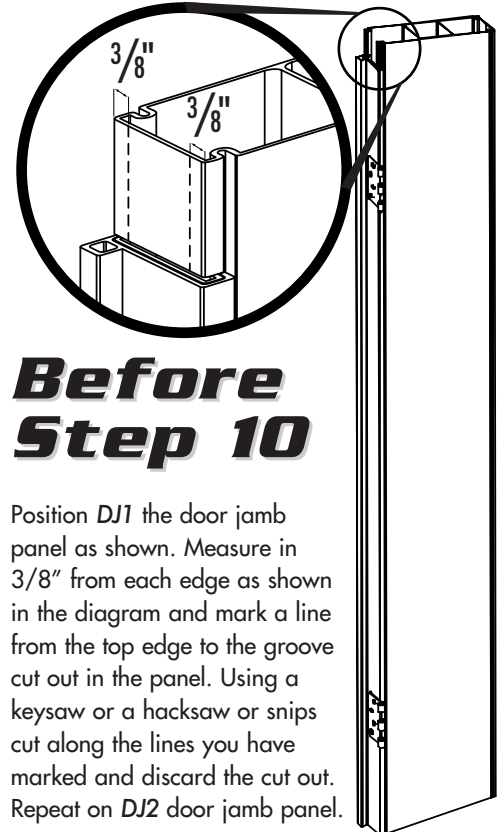
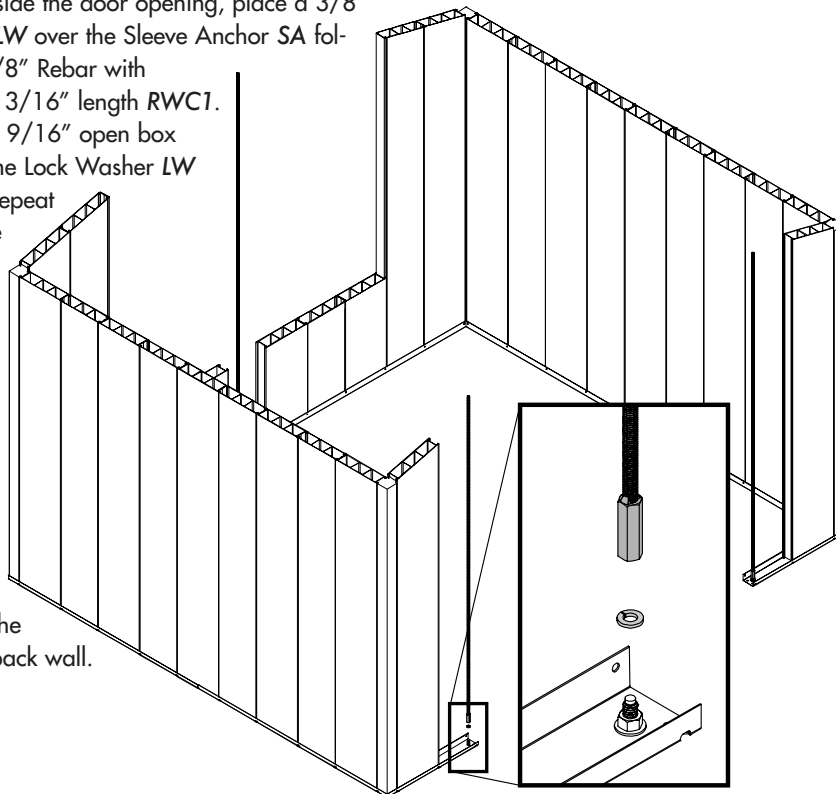


THIS ADDENDUM IS ONLY USE WITH MODEL S010, S020 & S108 10' x 8' STORAGE BUILDINGS WITH A BACK WALL THAT IS DIVIDED BY A WALL CONNECTOR. IF YOUR BUILDING DOES NOT HAVE A DIVIDED BACK WALL DO NOT USE THIS ADDENDUM. IF YOU ARE UNCLEAR AS TO WHETHER OR NOT YOU SHOULD USE THIS ADDENDUM PLEASE CONTACT OUR CUSTOMER CARE CENTER AT 1-877-GO-ROYAL FOR ASSISTANCE.

9

Assemble the walls of your storage building as indicated in the storage building manual, except for the panels not shown in the diagram. At the back wall install the JT5-PT5 panels except for the center PT5 panel. At each of the Sleeve Anchors SA beside the door opening, place a 3/8"

Lock Washer LW over the Sleeve Anchor SA followed by a 3/8" Rebar with Coupling 72 13/16" length RWC1. Tighten with a 9/16" open box wrench until the Lock Washer LW compresses. Repeat this step at the center of the rear track using the Rebar with Coupling 83 13/16" length RWC2 and Lock Washer LW. Install the remaining PT5 panel at the center of the back wall.



Before Step 10

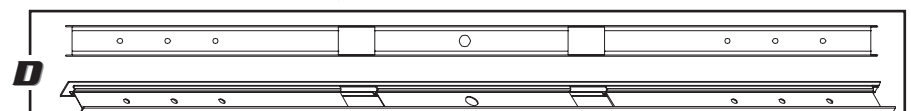
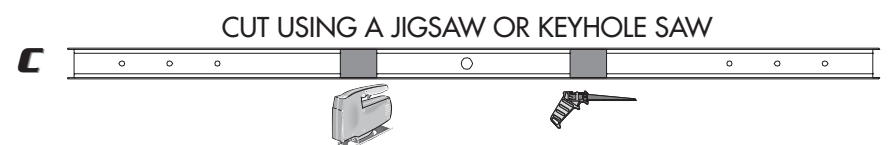
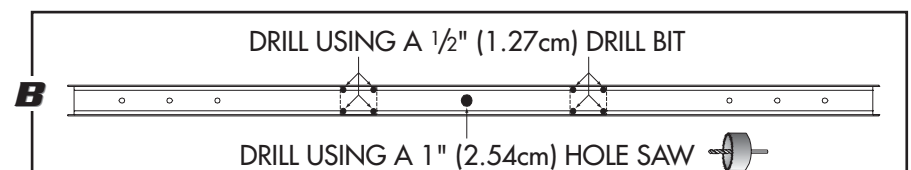
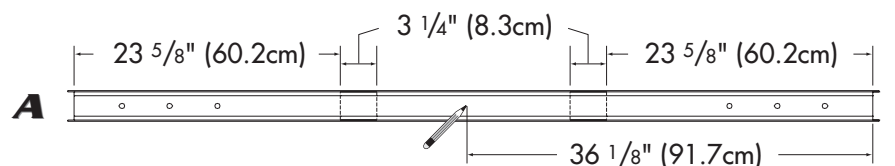
Position DJ1 the door jamb panel as shown. Measure in 3/8" from each edge as shown in the diagram and mark a line from the top edge to the groove cut out in the panel. Using a key saw or a hacksaw or snips cut along the lines you have marked and discard the cut out. Repeat on DJ2 door jamb panel.

Before Step 10

Lay the Wall Connector WC1 flat on the ground as shown. Starting at the left end, measure 23 5/8" (60.2cm) inwards from the point shown in diagram A and mark a line. Measure a further 3 1/4" (8.3cm) from the line you just marked and mark another line. Repeat the above procedure starting at the right end. Next, measure 36 1/8" (91.7cm) inwards from the point shown in diagram A and mark a point at the middle of the Wall Connector.

Using a 1" hole saw, drill a hole at the 36 1/8" (91.7cm) point you marked above. Next, using a 1/2" bit, drill holes where indicated using diagram B as a guide. The holes should be between the guidelines you have drawn and as close to the edge as possible. Once you have drilled all eight 1/2" holes, use a jigsaw or keyhole saw to cut out the shaded area in diagram C.

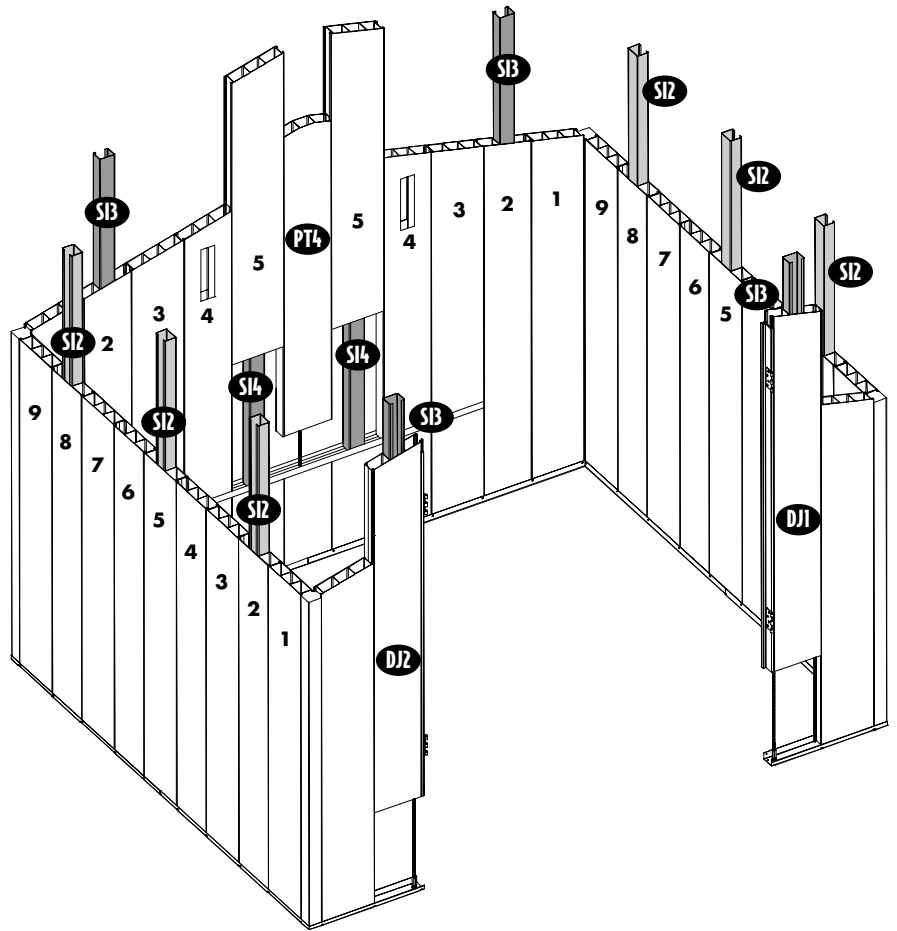
When  should look like



10

Place the Wall Connector **WC1** over the back wall panels as instructed in the storage building assembly manual making sure to thread the rebar through the center hole. Slide the Steel

Inserts **SI4** into the holes in the **WC1** Wall Connector. The Steel Inserts must be placed into the center cavity of the panel with the open side of the insert facing the exterior of the shed. Insert the remaining back wall panels to complete the rear wall ensuring that with panel **PT4** the rebar is in the center cavity. Insert the door jamb panels **DJ1** and **DJ2** at the front right and left respectively, ensuring the rebar is in the cavity nearest the door opening. Next, slide the Steel Inserts **SI2-SI3** into the wall at the panels indicated in the diagram. Steel Inserts **SI2** go on the side walls at the panels shown in the diagram. Two Steel Inserts **SI3** go on the front walls into the **DJ1** and **DJ2** panels. The remaining **SI3** Steel Inserts go on the back wall at the panels shown in the diagram.



After Step 12

Turn the Header Assembly **HD1** upside-down. At the first inner wall, measure in $1\frac{1}{2}$ " from each outside edge and mark a line. Extend these lines down $2\frac{5}{8}$ ". Repeat until you have measured and marked all the remaining inner walls. Using the keysaw or a hacksaw or snips cut along the lines you have marked. You can safely cut slightly deeper than the required $2\frac{5}{8}$ ", rather than cut too short. After you have cut all the marked walls, begin folding down the flaps as shown. Note: The flaps may be folded down in any direction.

