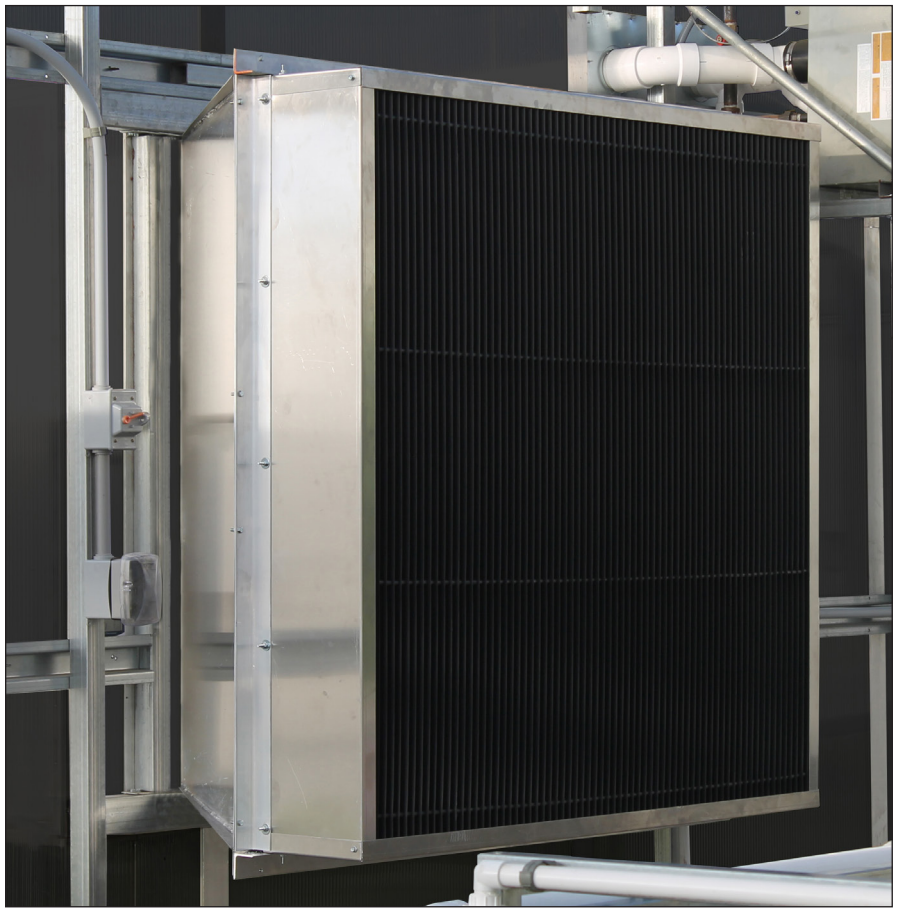
GROWspan™
greenhouse structures

Breathable Wall Light Traps



Maintain controlled airflow without sacrificing blackout environments.

BREATHABLE WALL
LIGHT TRAPS

113410 & 113410A
113422 & 113422A

*Actual components may differ from the example shown.

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WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov

Revision date: 02.21.23

Important Information

READ THIS DOCUMENT BEFORE YOU BEGIN

Thank you for purchasing the breathable wall light trap. When properly assembled and maintained, this product will provide years of reliable service. These instructions include helpful hints and important information needed to safely assemble and properly maintain the kit components. Please read these instructions ***before*** you begin. If you have any questions during the assembly, contact Customer Service at 1.800.245.9881 for assistance.

SAFETY PRECAUTIONS

- Wear eye protection.
- Wear gloves when handling metal parts.
- Use a portable GFCI (Ground Fault Circuit Interrupter) when working with electric power tools and cords.

REQUIRED TOOLS

The following list identifies the main tools needed to assemble and install the breathable wall light trap. Additional tools may be needed.

- Tape measure and marker.
- Variable speed drill (cordless with extra batteries works best); 1/4" and 7/16" drill bits.
- Small hammer and gloves.
- Magnetic Nut Setter (3/8" x 2-9/16").
- Level (length depends on kit dimensions).
- 7/16" wrenches and a socket set containing 7/16" deep-well socket.

ASSEMBLY PROCEDURE

Following the instructions as presented will help ensure proper assembly. Steps outlining assembly process are as follows:

1. Verify that all parts are included in the shipment. Notify customer service for questions or concerns.
2. Read these instructions and all additional documentation included with the shipment ***before*** you begin.
3. Gather the tools and assistants. Assistants are needed to lift and hold assembly when attaching to building frame.
4. Assemble kit components. Read this document to determine what pages apply to your kit.
5. Read the care and maintenance information.

CARE AND MAINTENANCE

Proper care and maintenance is important. Check the following items periodically to ensure breathable wall light trap components are secure and functioning properly.

- Check all fasteners to verify they remain tight.
- Never climb or stand on any part of the light trap and its frame components.
- Ensure nothing blocks either side of light trap.
- For replacement or missing parts, call 1.800.245.9881 for assistance.

WARNING: IF KIT INCLUDES MOTORIZED SHUTTER OR AN ELECTRIC FAN, CONSULT THE SERVICES OF A QUALIFIED ELECTRICIAN TO ADEQUATELY AND SAFELY CONNECT COMPONENTS TO A POWER SUPPLY.

ALL ELECTRICAL CIRCUITS SHALL BE DESIGNED IN ACCORDANCE WITH LOCAL AND REGIONAL BUILDING CODES AND STANDARDS.

Getting Started: Basic Kit Descriptions and Components

Different kits include different components. Use the information on this page to identify which procedures apply to your breathable wall light trap kit.

ATTENTION: Kit numbers that end with the letter A (e.g., 113422A) include an assembled light trap. ***Skip Sections 1 & 2 if your kit includes an assembled light trap.***

This guide describes the assembly of these breathable wall light traps:

- 113410 & 113410A
- 113422 & 113422A

GENERAL ASSEMBLY STEPS

1. Assemble vane kit components.
   (All kits: Procedure 1. *Does not apply if kit number ends with letter A.*)
2. Assemble vane kit frame.
   (All kits: Procedure 2. *Does not apply if kit number ends with letter A.*)
3. Attach assembled breathable wall light trap to building frame.

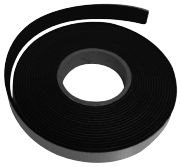
   ATTENTION: Light traps are typically installed inside the building.

PICTORIAL PARTS GUIDE

FAG304B
1/4" Hex Bolt

FA4484B
Tek Screw

FAMA36B
1/4" Split Lock Washer



Felt Tape

FALB01B
1/4" Hex Nuts

FAME50B
1/4" Flat Washer

*Some parts are not shown.

Assembly Instructions: Vane Kit Components

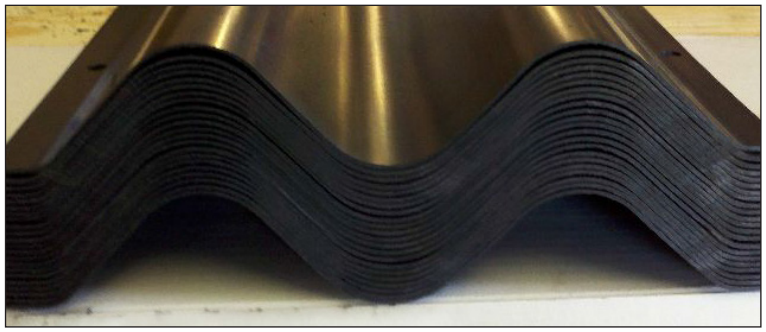
1

ASSEMBLE LIGHT TRAP VANE KIT COMPONENTS

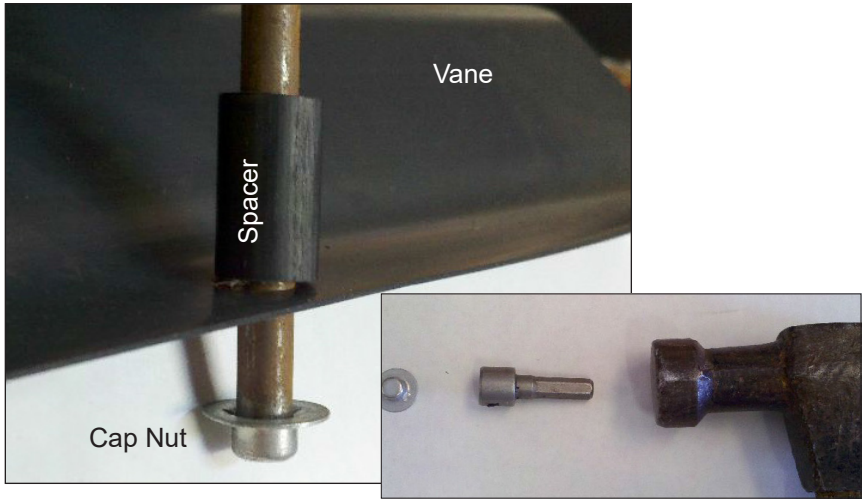
ATTENTION: If kit number ends with letter A, light trap is pre-assembled. Skip Procedures 1 & 2 and continue with Procedure 3.

Gather vane kit components. Review part descriptions for additional information. Complete these steps:

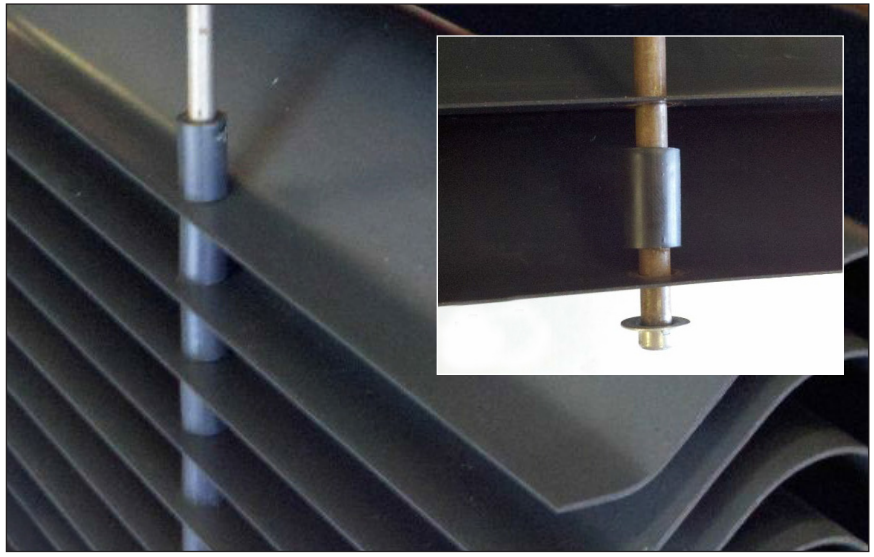
1. Unpack vanes keeping them in the same order as packed.



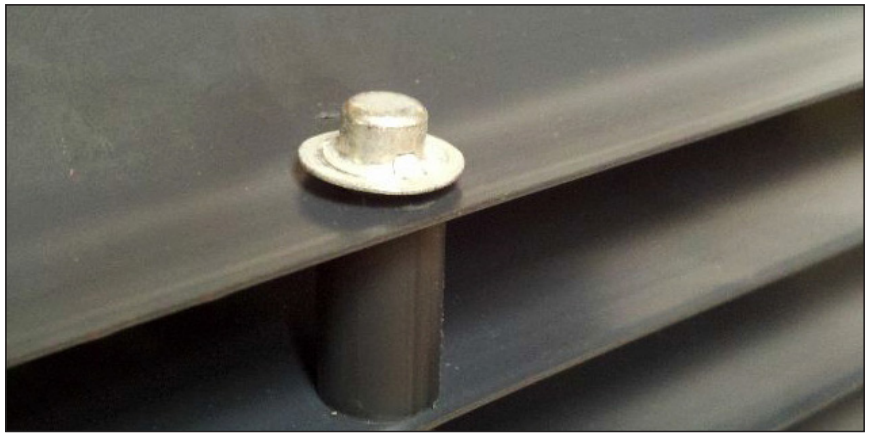
2. Place one (1) rod cap nut firmly on one end of a rod. Use a nut driver (or similar tool) and a hammer to seat cap on rod. Repeat to install a cap on one end of each remaining rods.
3. With assistance, stand rods upright with cap nuts at the bottom. Place one vane over all rods.



4. Slide a tube spacer onto each rod and add another vane.
5. Repeat Step 4 until all vanes are used.



6. After installing all vanes, install a cap nut on the end of each rod to secure final vane.



ATTENTION: Before installing cap nut, determine if a 3/8" spacer is needed. Vanes should be tight once final cap nut is installed.

7. Finally, turn assembled vane kit so vanes are vertical.
8. Continue by assembling vane kit frame. See Procedure 2.

Assembly Instructions: Vane Kit Frame

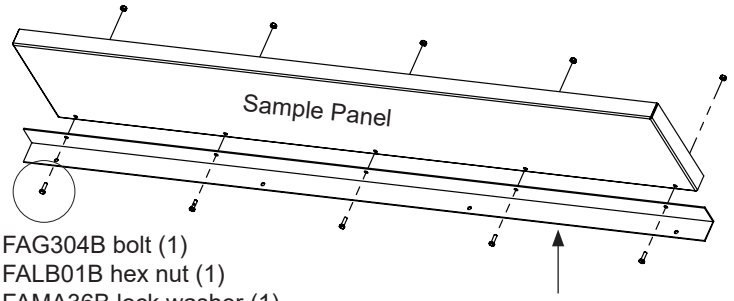
2

ASSEMBLE LIGHT TRAP VANE KIT FRAME

ATTENTION: If kit number ends with letter A, light trap is pre-assembled. Skip Procedures 1 & 2 and continue with Procedure 3.

Complete these steps:

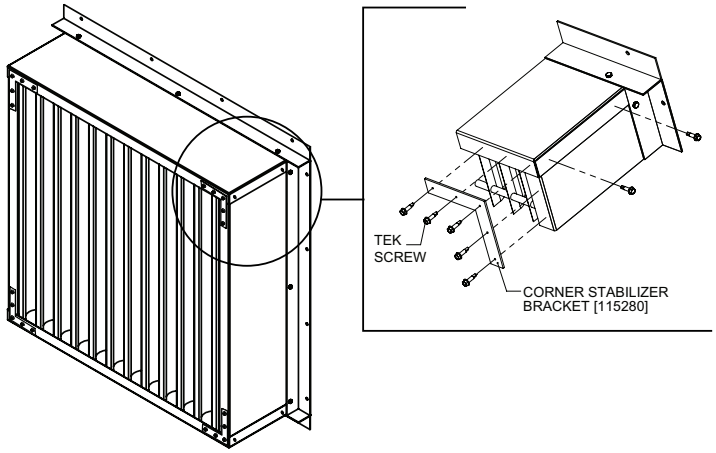
1. Use diagram below to attach aluminum angles to *top and bottom frame panels* first. Tighten all bolts.



NOTE: Aluminum angle for top and bottom panels will extend beyond panel edges as shown in diagram above and to the right (A).

2. Next attach aluminium angle to side panels. Tighten all bolts except those at each end (B).

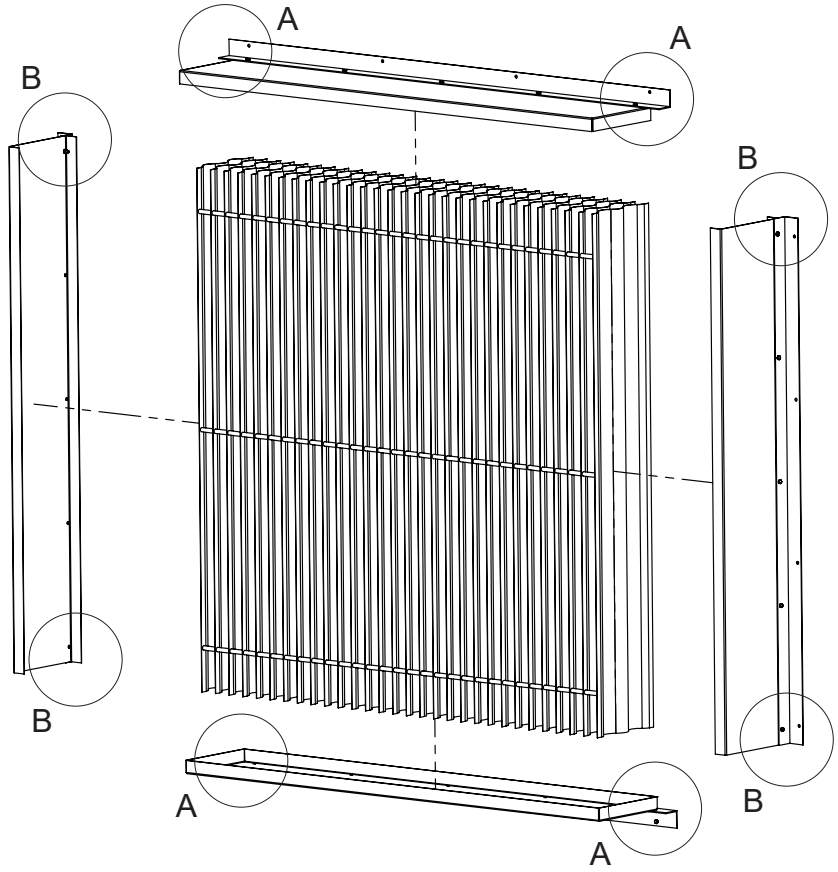
3. Assemble frame as shown, tighten side panel bolts (B), and install 115280 corner brackets. Secure using FA4482B Tek screws.



4. Attach light trap to building.

Gather parts:

- FAG304B 1/4" hex bolts
- FALB01B 1/4" hex nuts
- FAME50B 1/4" flat washers
- FAMA36B 1/4" lock washers
- FA4482B 1" Tek Screws
- Light trap frame top/bottom panels (2)
- Light trap frame side panels (2)
- Light trap aluminum angle (sides) (2)
- Light trap aluminum angle (top/bottom) (2)
- Light trap corner stabilizer brackets (4)

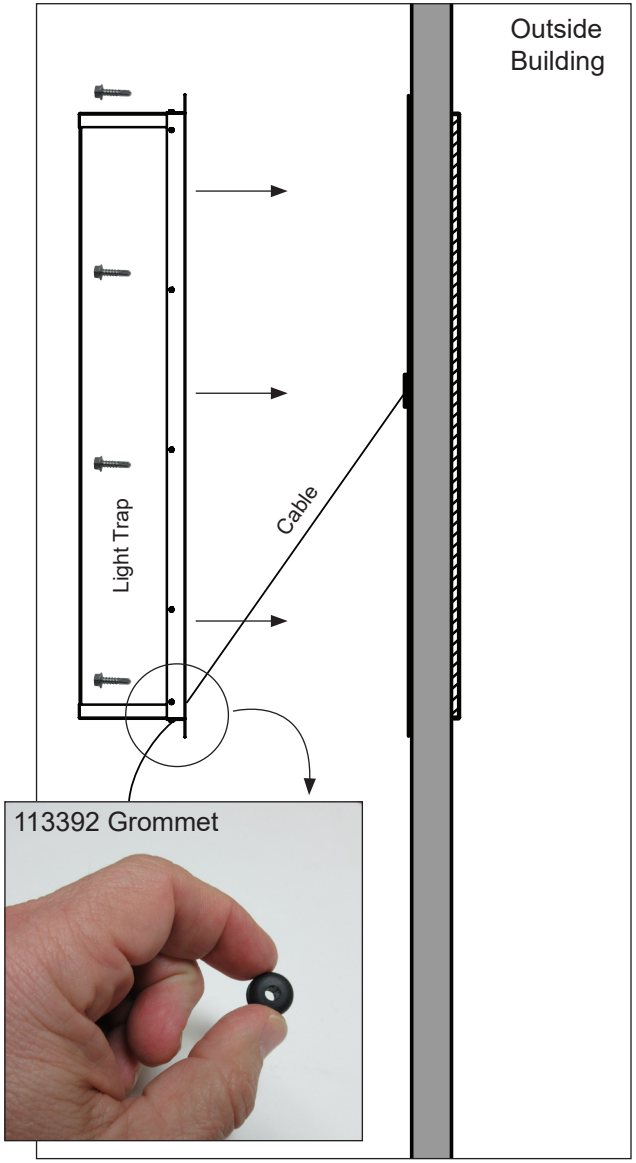


ATTENTION: Bottom aluminum angle includes a small hole for the cable to pass through for motorized shutter applications. Using a 7/16" bit, carefully drill through bottom frame panel after attaching bottom angle to panel. Use hole in angle as guide. Install 113392 grommet in hole. Does not apply if light trap is not installed over a motorized shutter assembly.

Attach Assembled Light Trap to Building

3 ATTACH ASSEMBLED LIGHT TRAP TO BUILDING

Use diagrams and information that follows to attach light trap to building. This example shows one use of light trap. Additional fasteners and components shown are not included. Contact your sales representative for additional details regarding the installation of your breathable wall light trap. ***Shutter and related components shown below are not included with the breathable light trap kit. Additional purchase required.***



NOTE: Use grommet when cable to control shutter passes through light trap frame.

MOTORIZED SHUTTER APPLICATION

ATTENTION: Attach pulley and motor and test operation of shutter assembly before installing the light trap.

- Use cable length to judge positions of pulley and shutter motor.
- Space pulley so cable clamps do not touch pulley during operation when cable is attached to motor arm.
- Secure motor and pulley to frame.
- Use the instructions sent with shutter motor to properly set motor arm position.
- Thread cable through hole in motor arm and secure using two (2) clamps. See light trap installation steps below.
- Supply power to motor and test operation.

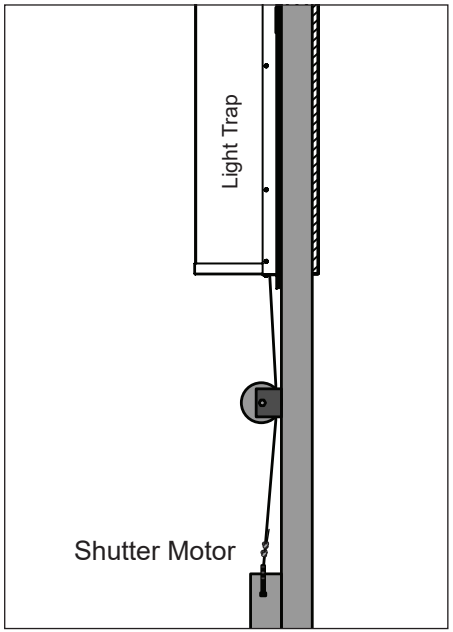
Enlist the services of an electrician to attach shutter motor to power. ***Adhere to all local and regional building codes.***

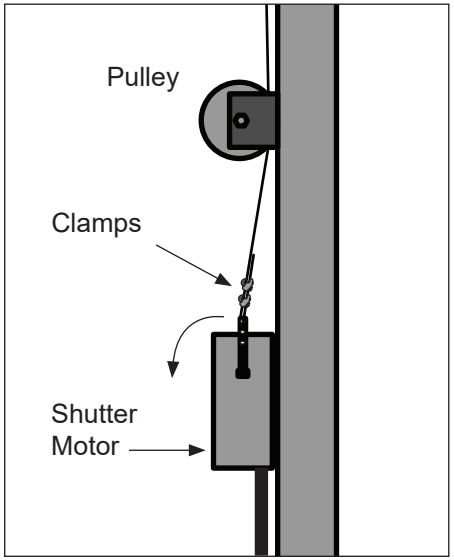
ATTACH LIGHT TRAP TO FRAME

DIAGRAM (LEFT): Verify light trap assembly is positioned with bottom aluminum angle toward the bottom. ***Bottom aluminum angle includes a small hole for cable to pass through.*** Using a 7/16" bit, carefully drill through bottom frame panel. Use hole in angle as guide. Install 113392 grommet in hole.

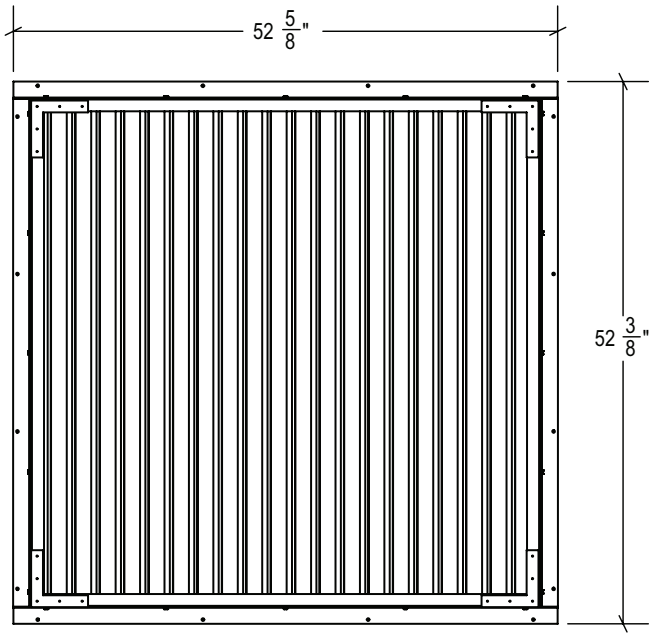
Apply felt tape around perimeter of mounting flange to seal the connection.

With assistance, lift light trap assembly and thread cable through grommet. Attach light trap to frame using customer-supplied fasteners.

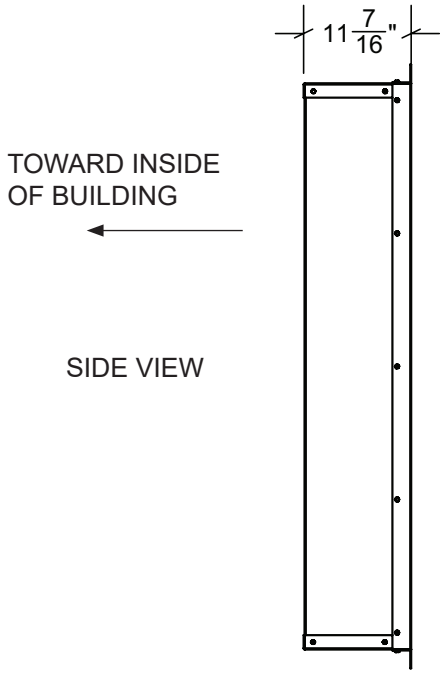




113422/113422A Breathable Wall Light Trap with Frame: 4' x 4'

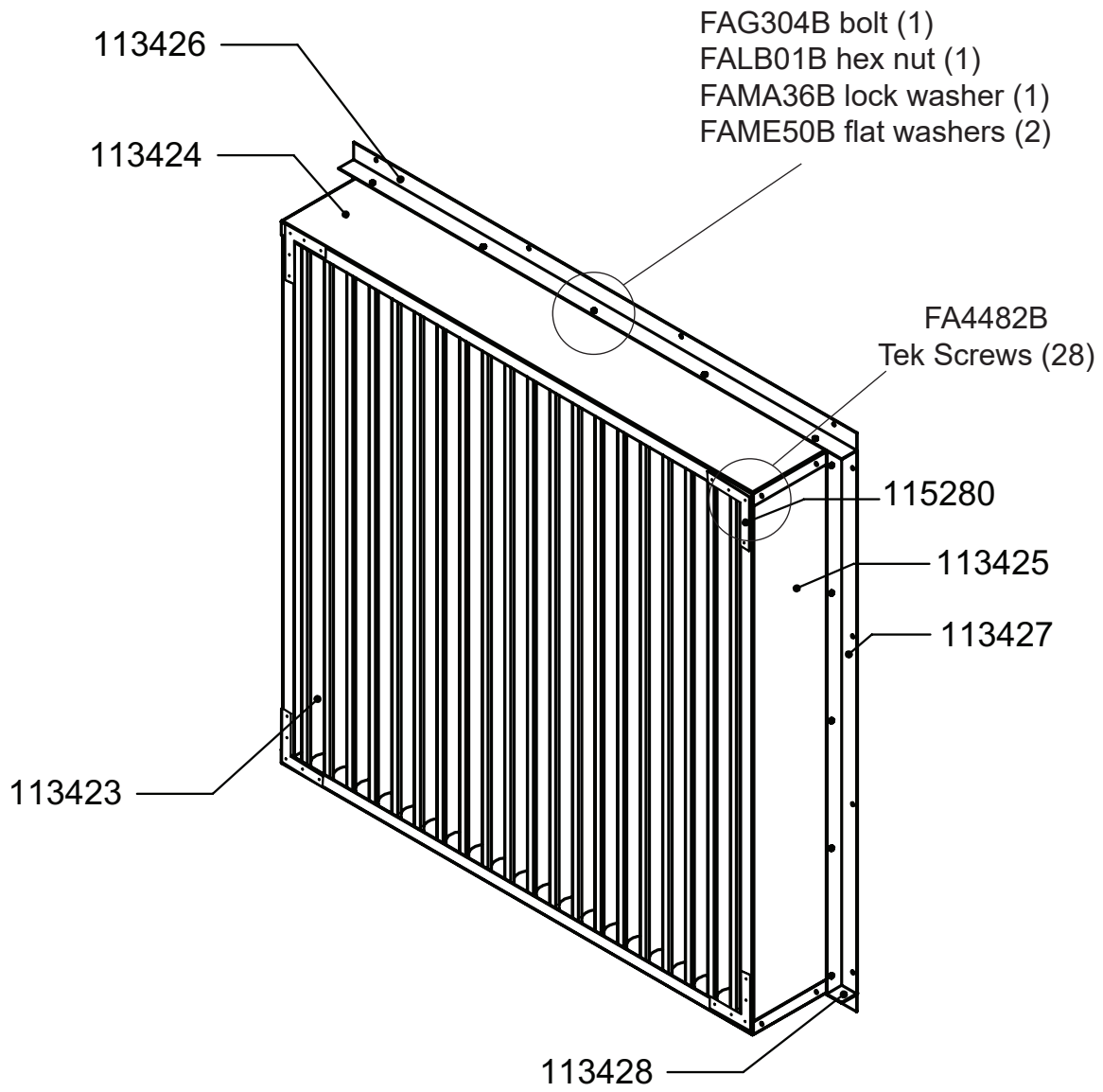


FRONT VIEW

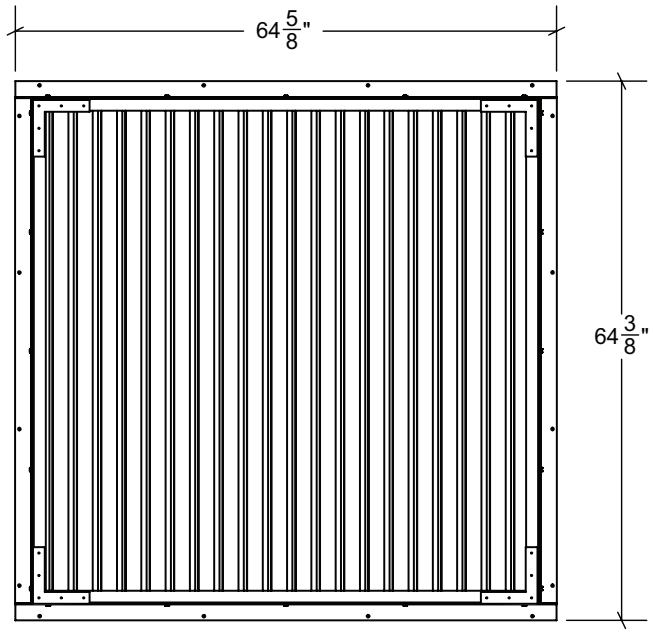


SIDE VIEW

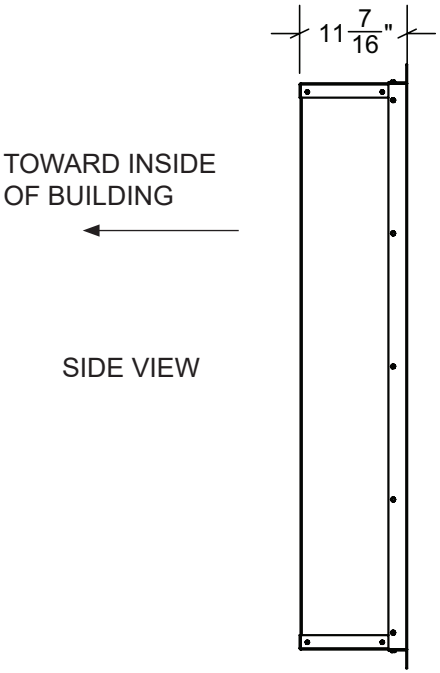
ATTENTION: To assemble this item only, complete Procedures 1 & 2.



113410/113410A Breathable Wall Light Trap with Frame: 5' x 5'

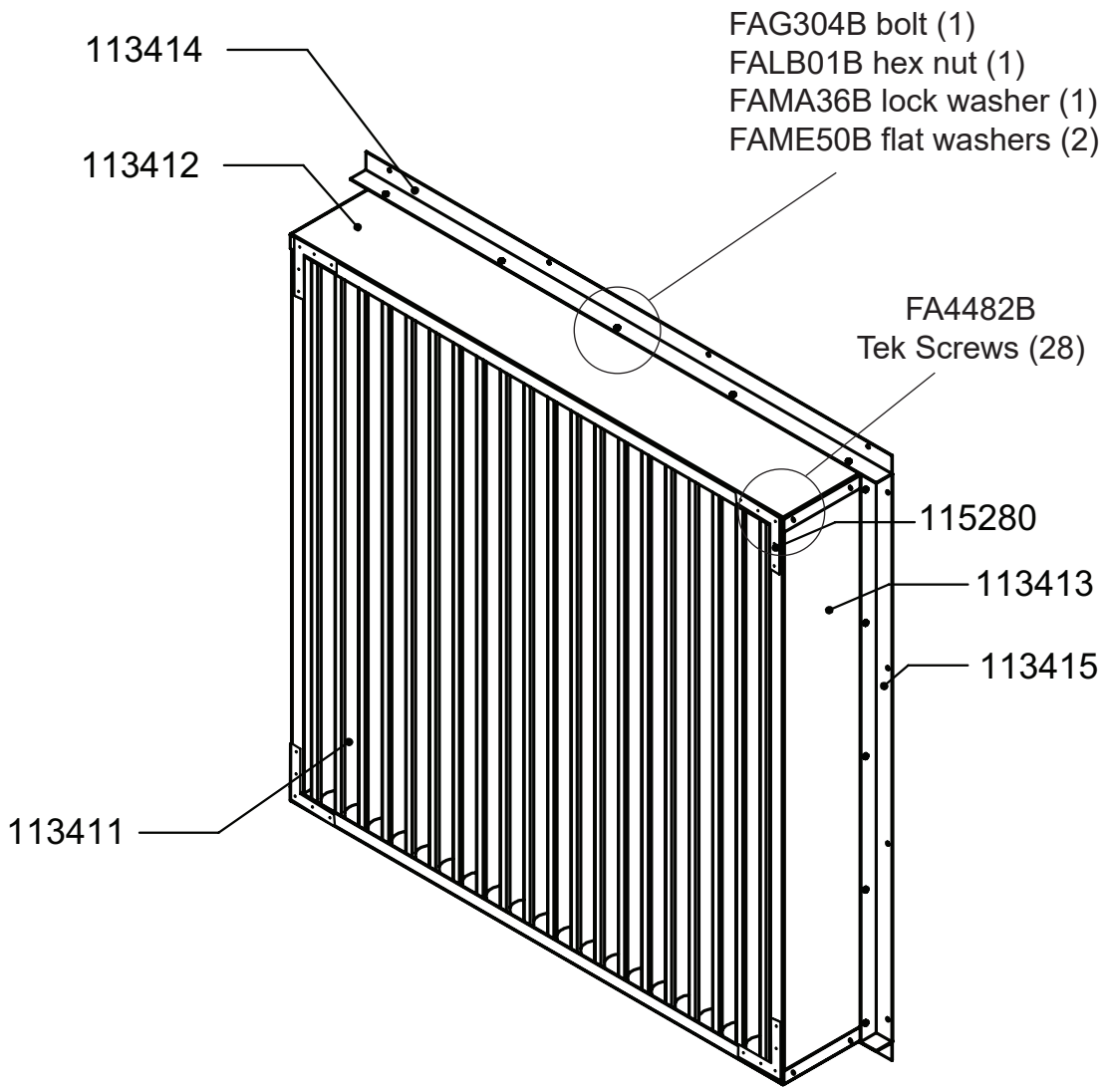


FRONT VIEW



SIDE VIEW

ATTENTION: To assemble this item only, complete Procedures 1 & 2.



Breathable Wall Light Traps Installed