



User manual

Aeon StarBright 9™ Series

Ceiling Ambient Light Rejecting EDGE FREE®

Fixed Frame Screen

(Splicing type)

Rev. V20211204DT

(DS0207)

Elite Screens

Product maintenance and precautions

Dust, dirt, and scratches on the projection screen surface will affect the quality and performance of the projection image. Follow the instructions below to properly maintain the screen.

Cleaning and maintenance:

- 1) The screen surface has a horizontal linear structure. **DO NOT** wipe the screen up and down or in a circular motion. ***Wipe gently from left to right only.***
- 2) Clean the dust on the screen surface with a soft brush or microfiber cloth. A rough/coarse towel or cloth may damage the screen's surface.
- 3) Gently wipe the screen with a lightly moistened white lint free cloth with water or with a neutral detergent mixed with water.

Attention:

- 1) Don't **touch** the screen material to avoid leaving fingerprints.
Use gloves when handling the material.
- 2) Don't **scratch** the material, as it will leave permanent markings on the screen's surface.
- 3) Don't **point** to the screen material with a fingertip or other sharp objects to prevent damage to the material.
- 4) Don't use acetone, benzene, alcohol, and any other organic solvents to clean the screen material.
Using such chemicals will permanently damage the screen.

※ **Note: this product is only suitable for standard throw projectors**

Prepare tools before installation



1. Tape measure x1



2. Electric drill x1



3. Pencil x1






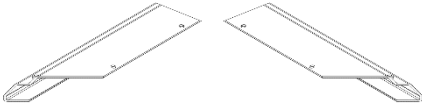

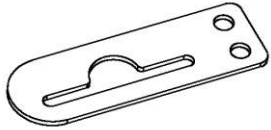


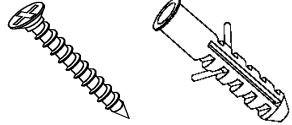
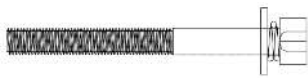
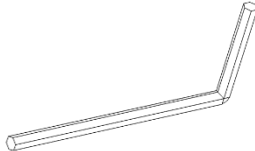
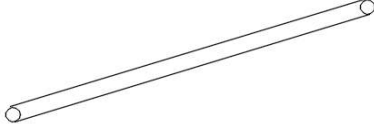
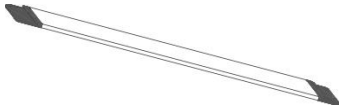


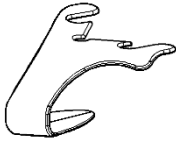
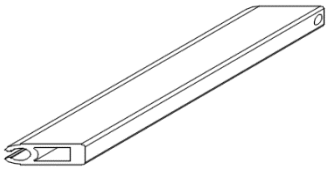
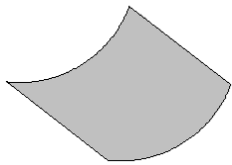
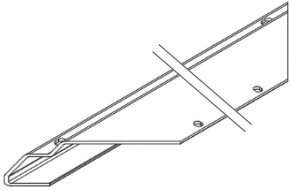
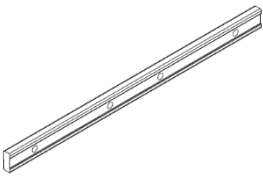
4. Screwdriver x1



5. Hammer x1

Hardware and Parts List

Please check whether the following accessories exist before installation. If there are any missing accessories, please contact us immediately.

<p>A. Elbow joints x 8</p> 	<p>B. Top/Bottom Horizontal frame x 4 (Part 1 x 2 + Part 2 x 2)</p> 	<p>C. Left/Right vertical frame x 2</p> 
<p>D. Top/Bottom Horizontal edge trim x 4 (Part 1 x 2 + Part 2 x 2)</p> 	<p>E. Sliding nut x 4 (Installed in the frame already)</p> 	<p>F. Wall bracket x 4</p> 
<p>G. M3x8 screw x 20</p> 	<p>H. M5x8 screw x 56 (Including 8pcs have been installed on the sliding nuts)</p> 	<p>I. M5x50 Screw / Anchor x 4</p> 
<p>J. M4x40 screw x 26</p> 	<p>K. M3 Hex key x 2</p> 	<p>L. Fiberglass rod x 6</p> 
<p>M. Center support bar x 1</p> 	<p>N. Gloves x 2</p> 	<p>O. Screen material x 1</p> 
<p>P. Corner cover x 4</p> 	<p>Q. Adjustment bar x 6</p> 	<p>R. Protection sheet x 1</p> 
<p>S. Left/Right vertical edge trim x 2</p> 	<p>T. Long Center joints x 4</p> 	

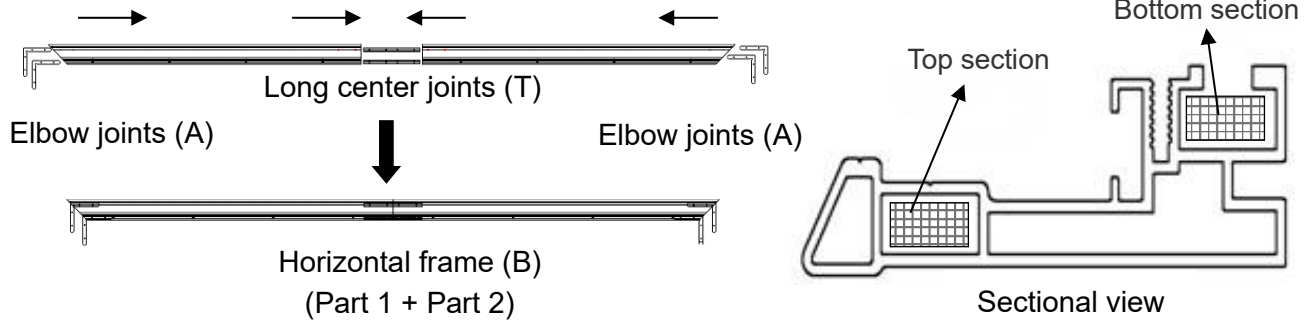
Frame assembly

Remove all items from the box. Find the Protection sheet (R), unfold it, and lay it down on a clean floor. Proceed to assemble the frame as follows:

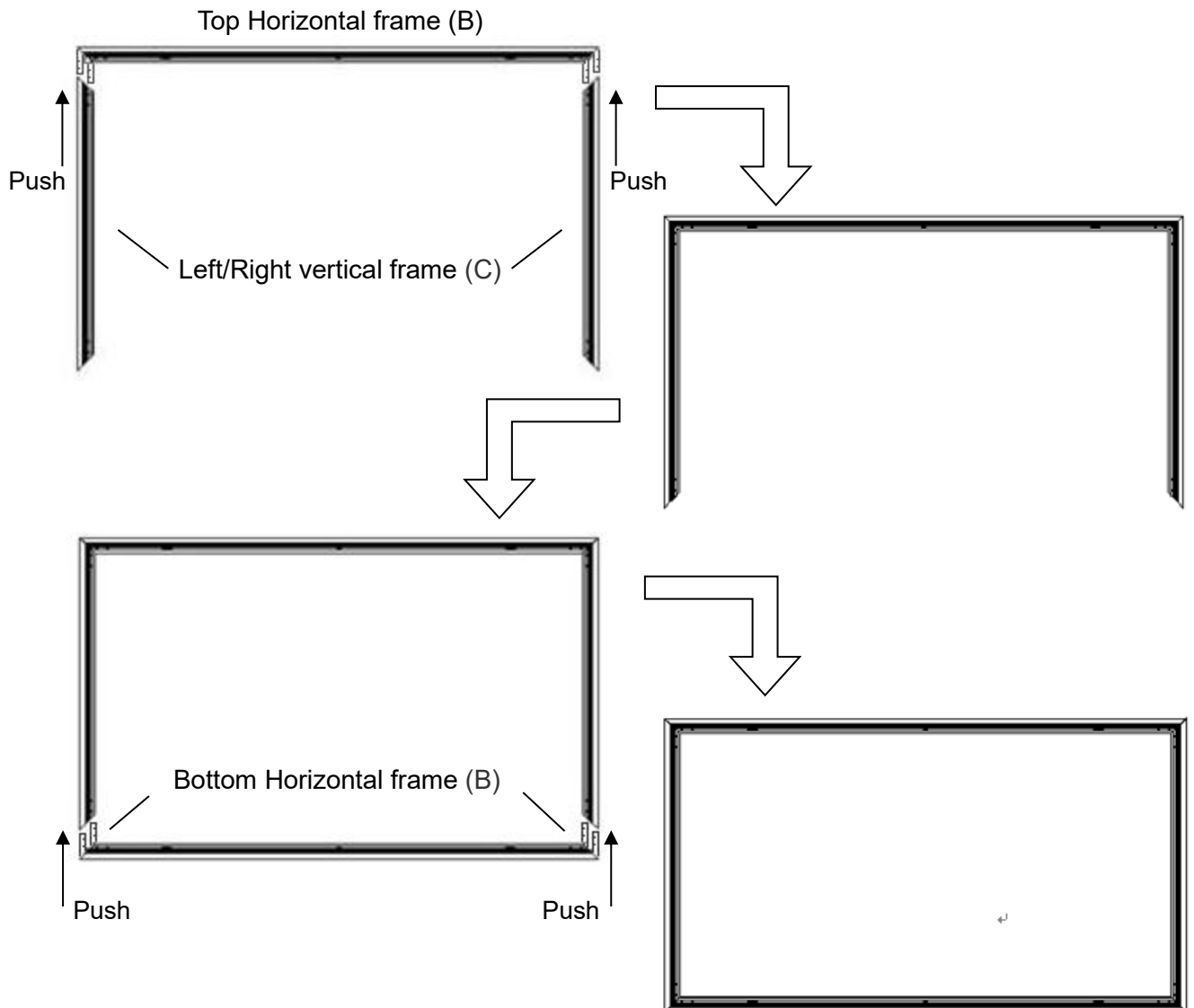
1. Insert **Elbow joints (A)** and **Long center joints (T)** into one set of the **Horizontal frames (B)**, as shown in the figure below.



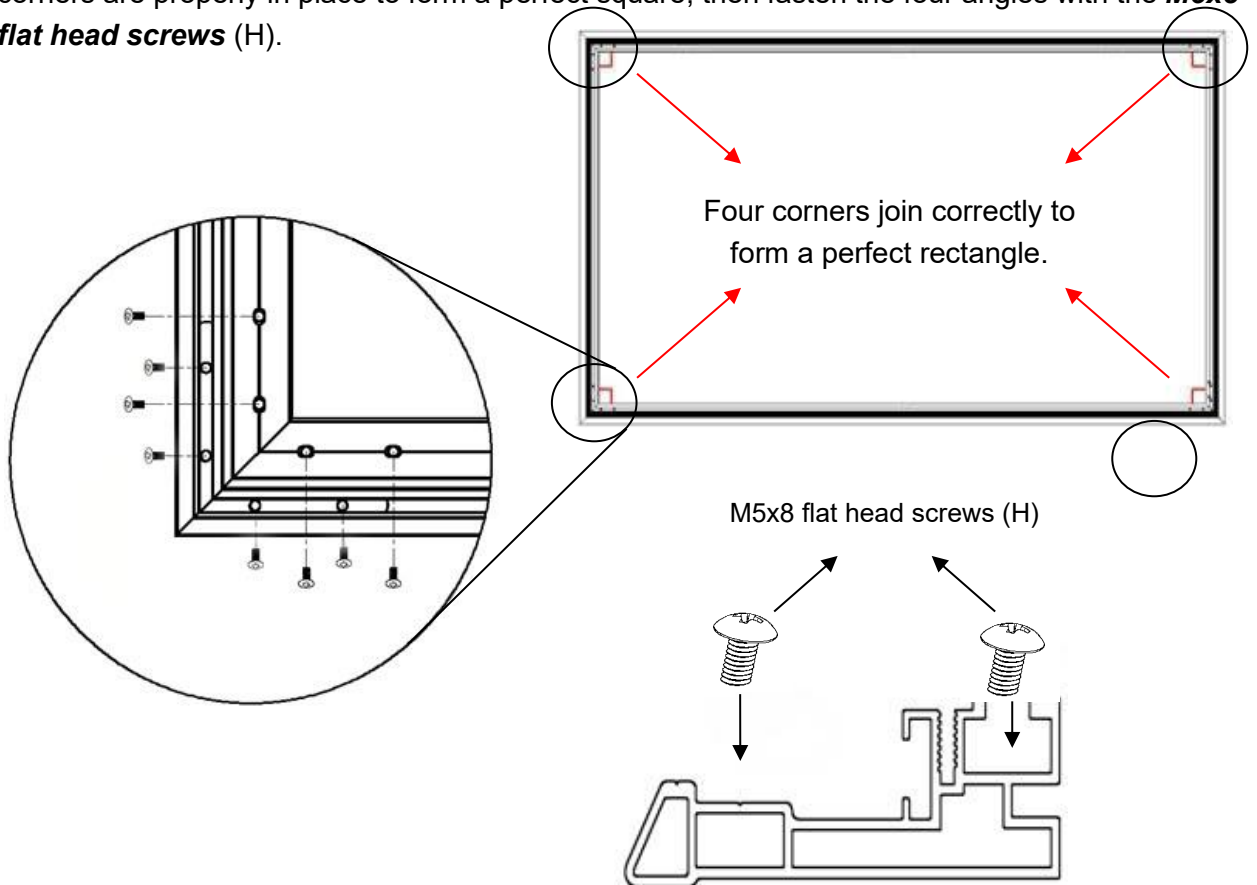
ATTENTION: Place the frame pieces away from each other to avoid scratching them during assembly.



2. Insert the **Left/Right vertical frames (C)** into the **Elbow joints (A)**. Then connect (Part 1 + Part 2) of the **Horizontal frame (B)**, and assemble the frame as shown below.

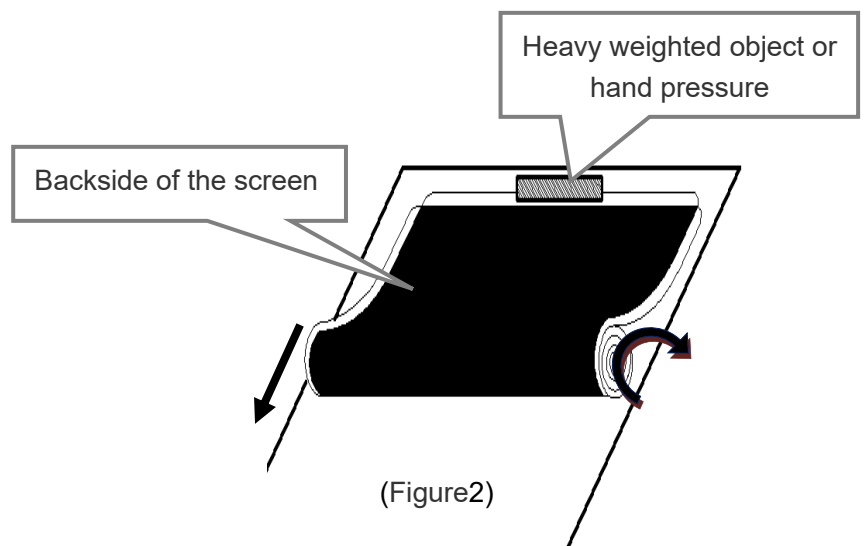
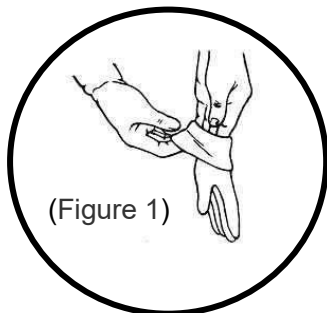


3. Fasten the center joints on the Horizontal Frames (B) using the screws. Then, make sure all four corners are properly in place to form a perfect square, then fasten the four angles with the **M5x8 flat head screws (H)**.



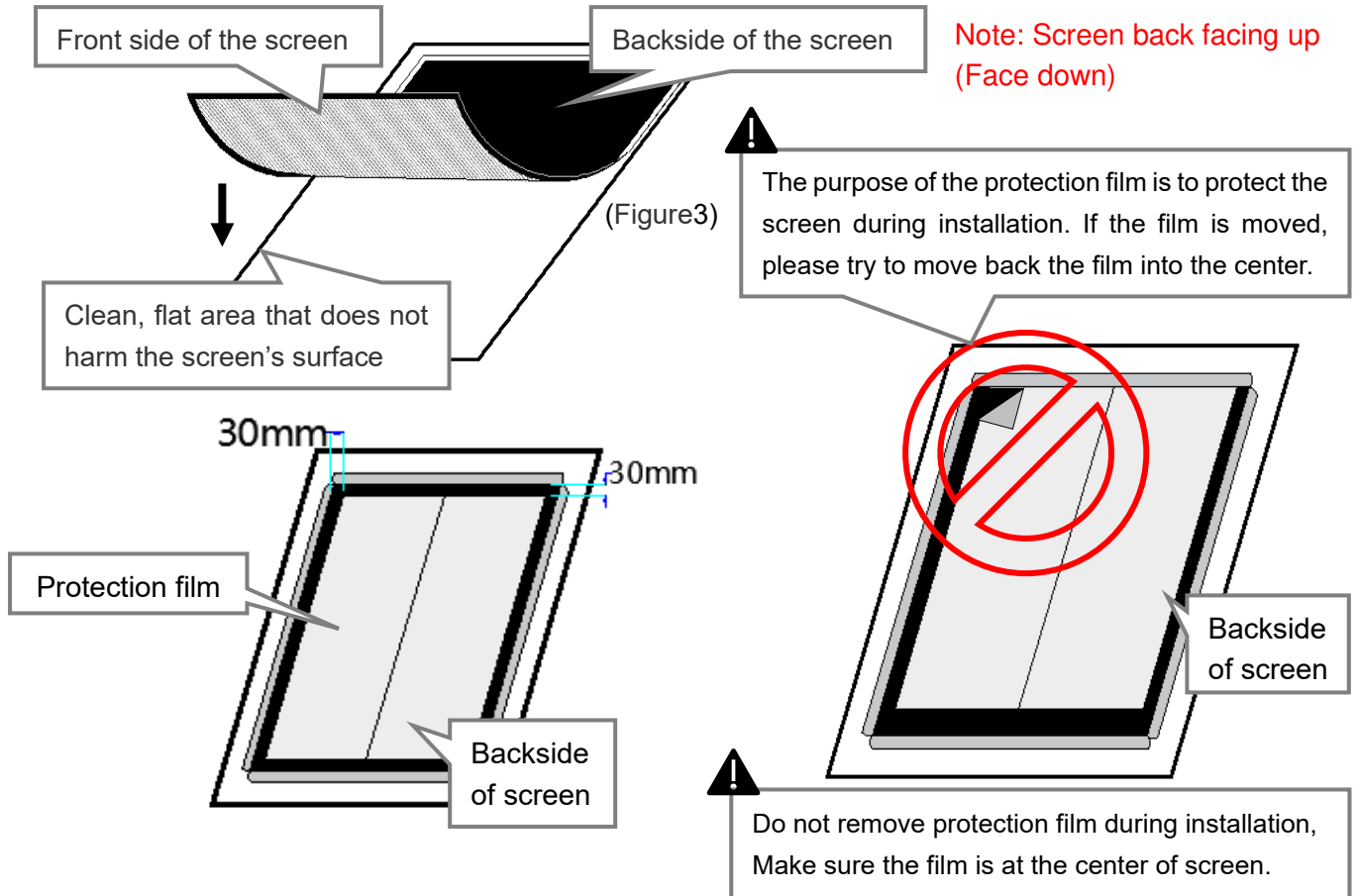
Screen Material Installation

1. Put on the installation **Gloves (N)** to avoid touching the screen material with bare hands which typically leave oily fingerprint marks that cannot be removed (Figure 1). Then, remove the assembled frame from the **Protection sheet (R)** and place it in a safe area.
2. Take the **Screen material (O)** out of the packaging tube and set it gently on the **Protection sheet (R)**. Gently press one end of the screen material (screen edge) with a suitable weighted object or just by using hand pressure face down (DO NOT press and crush the screen material). Two people should hold the other end (rolled up end) slowly rotate the screen a clockwise direction (Figure 2).

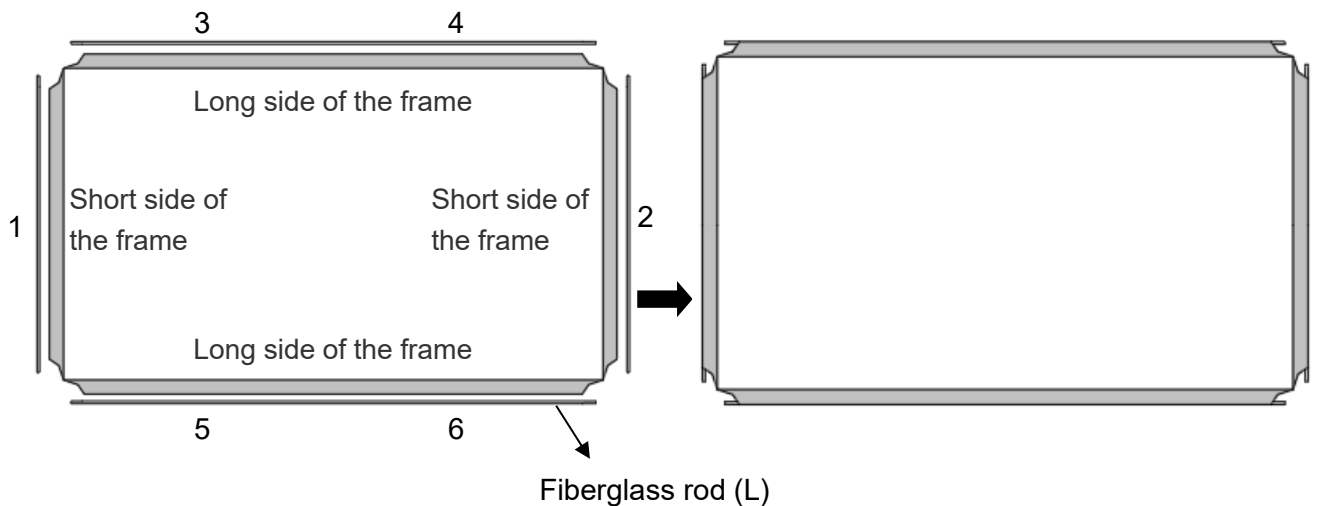


3. Once the material has been completely unrolled, lay the material completely flat with the front facing down on a clean surface in a horizontal position (Figure 3)

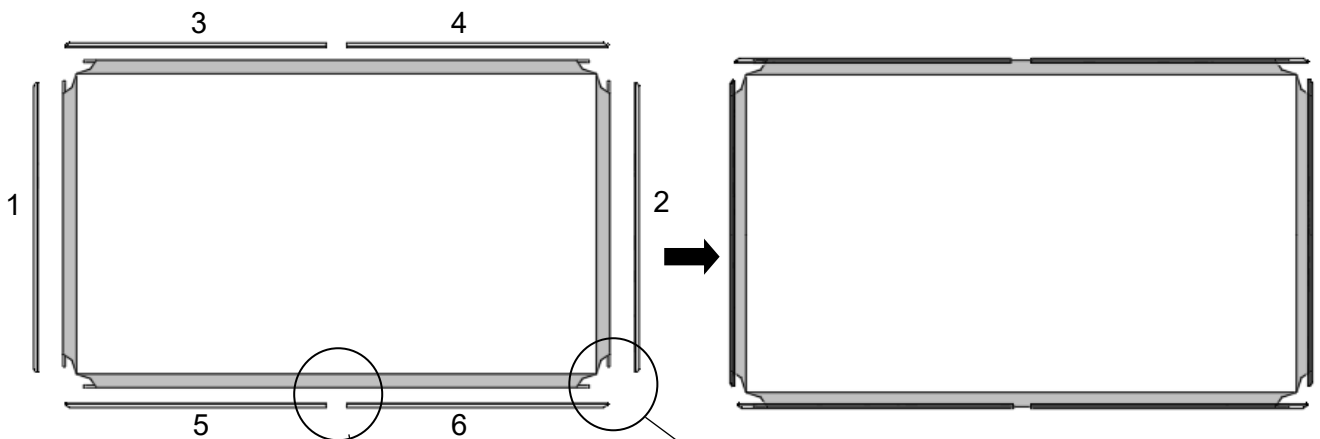
⚠ There are thumbtacks fixed on the paper tube at the end of screen expansion. Pay attention to the thumbtacks to avoid stabbing yourself when removing them!



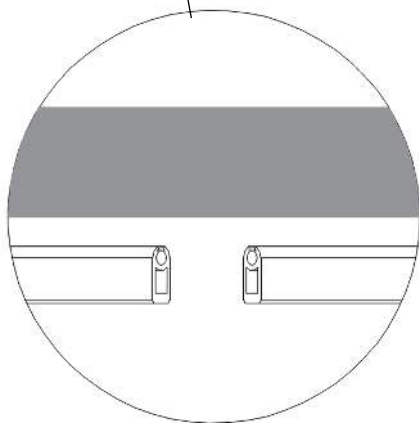
4. Insert the **Fiberglass rods** (L) through the sleeves on the edges of the screen material. The long rods (1, 2) are used on the vertical edges of the screen material, and the short rods (3, 4, 5, 6) are used on the horizontal edges, as shown below.



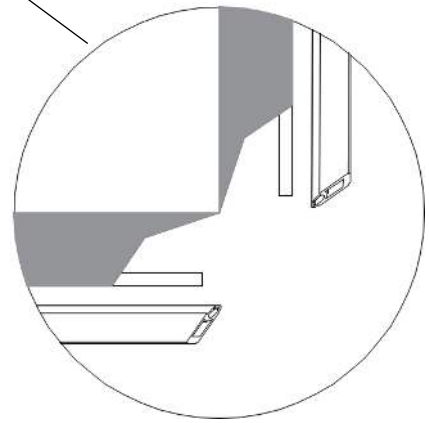
5. Insert the two long **Adjustment bars (Q)** on the fiberglass rods (1, 2) of the short side of the screen material and two short **Adjustment bars (Q)** on the fiberglass rod (3, 4, 5, 6) of the long side of the screen.



Adjustment bars position



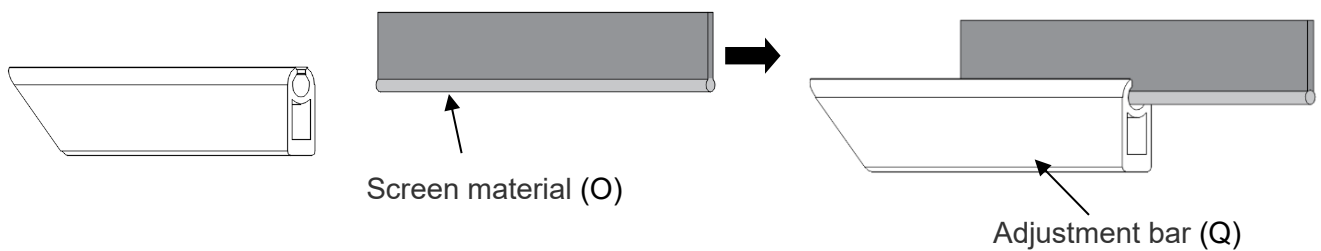
※ The upper and lower (middle points) adjustment bars have right-angle edges



※ All four angles should have the adjustment bars with the beveled angle

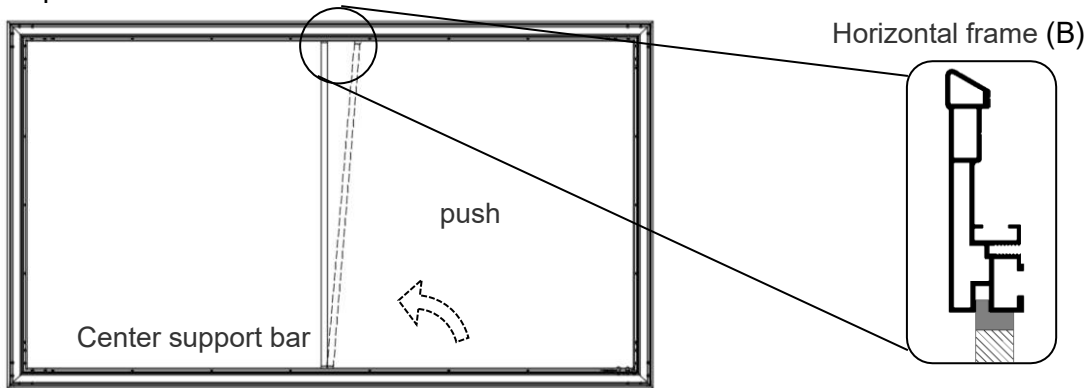
Adjustment bar installation

- ※ The adjustment bar is installed into the groove along the fiberglass rod



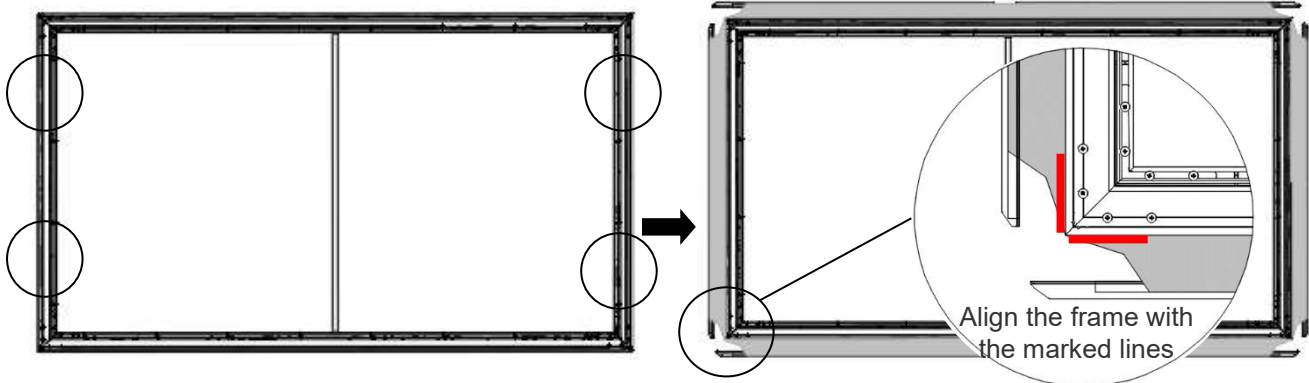
Center support bar installation

Push the **Center support bar (M)** in the middle of the frame and align each end of the support bar with the top and bottom frames.



- Carefully and gently place the assembled frame on top of the screen material. Make sure to not allow the angle edge of the frame to come in direct contact with the screen material to avoid puncturing it.
- Ensure that the sliders in the left and right short frames (two sliders on each side) are fixed 1/4 of the frame away from both top/bottom ends.

Note: The screen back facing up



Adjustment Bar to Frame Installation

- Once all the four corners of the frame have been properly aligned on the marked areas on the material, two people should insert the **M4x40 screw (J)** through the frame hole and fasten it on the **adjustment bar (Q)** by **turning it twice**. **Note: Don't over tighten. Adjust until all screws have been inserted.**

- Secure and tighten the **M4x40 screw (J)** using the **M3 Hex Key (K)** symmetrically in the following sequence: 1-1 → 2-2 → 3-3 → 4-4 → 5-5 → 6-6 → 7-7 → 8-8 → 9-9 → 10-10 → 11-11 → 12-12 → 13-13.

ATTENTION: Make sure the screen material does not shift and remains aligned on all 4 corners of the frame before proceeding to 4-4 → 5-5 → 6-6 → 7-7. Failure to keep material aligned will cause it to get squeezed when installing the edge trim and result in damage.

Note: The distance between the adjustment bar and the edge of the frame is approximately 0.11-0.14" (3-4mm) after completely fastened.

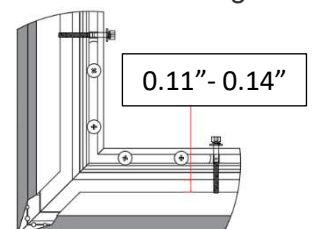
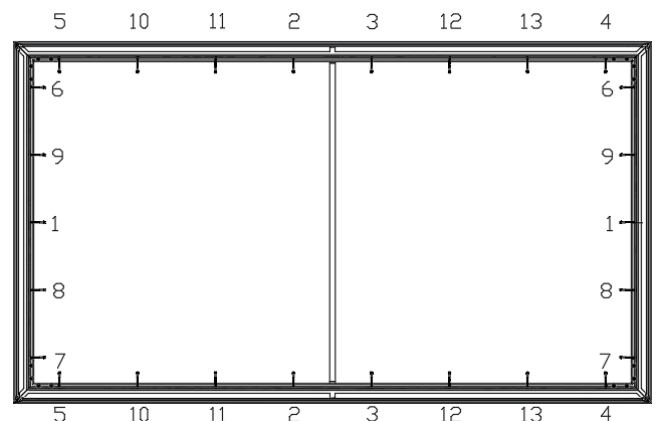
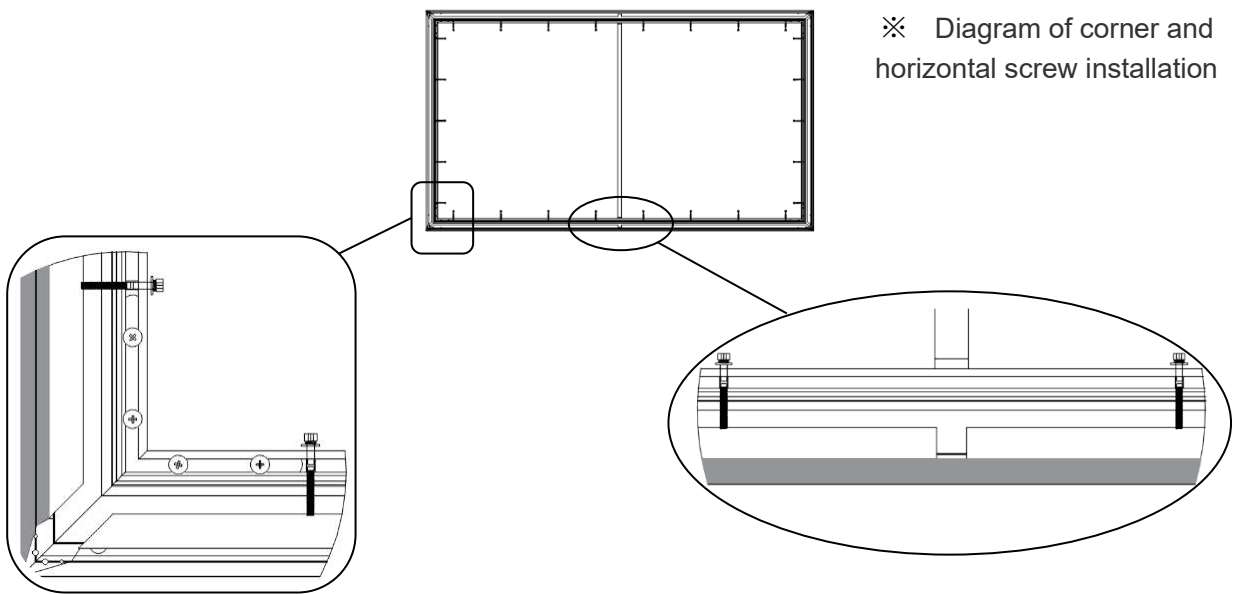
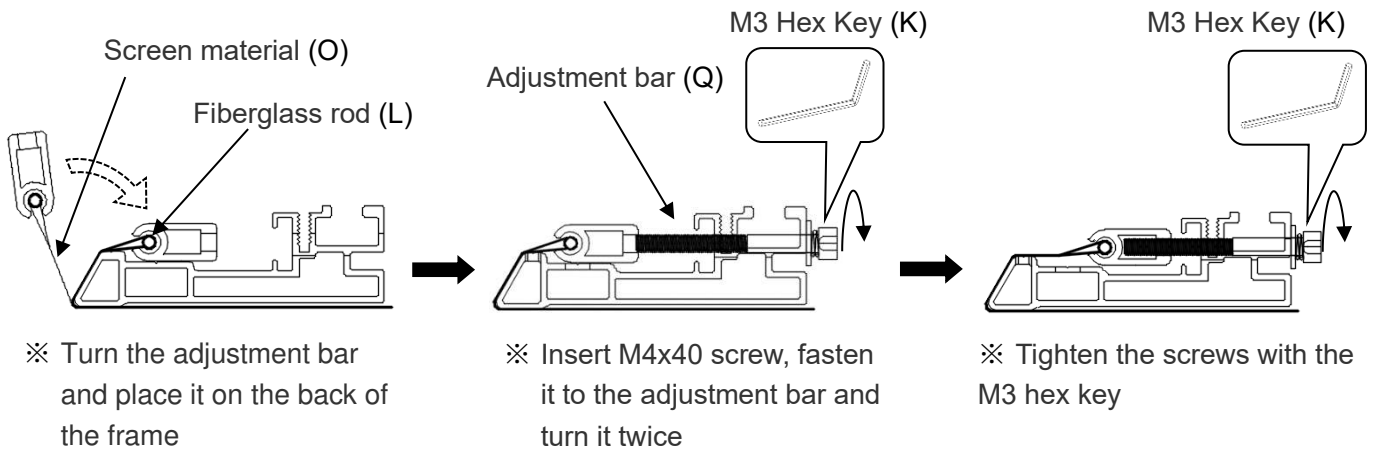
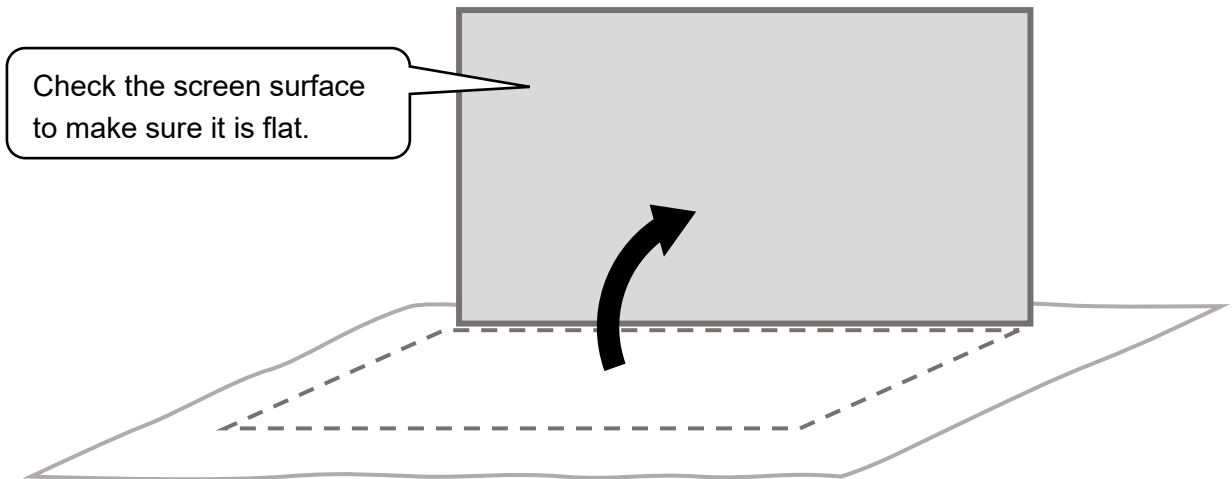


Illustration of steps above



10. After installing the adjustment bar to the frame, lift the frame (two people) to check the screen surface. If there are visible waves on the screen surface, adjust the tightness of the screws to make the screen surface flat.



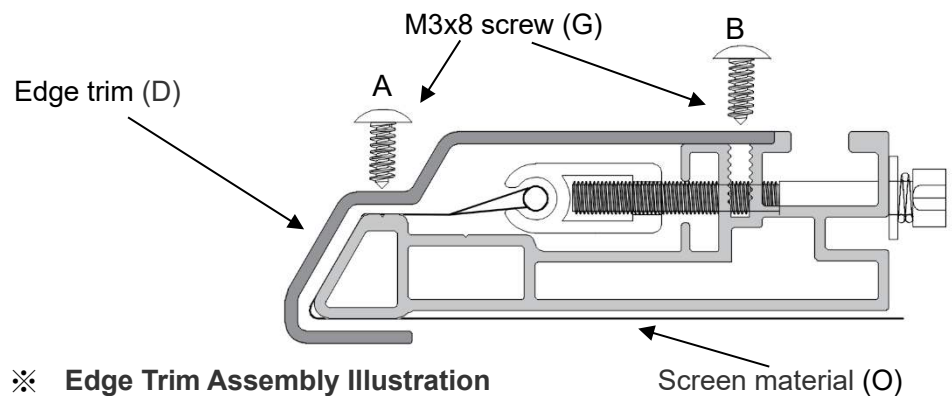
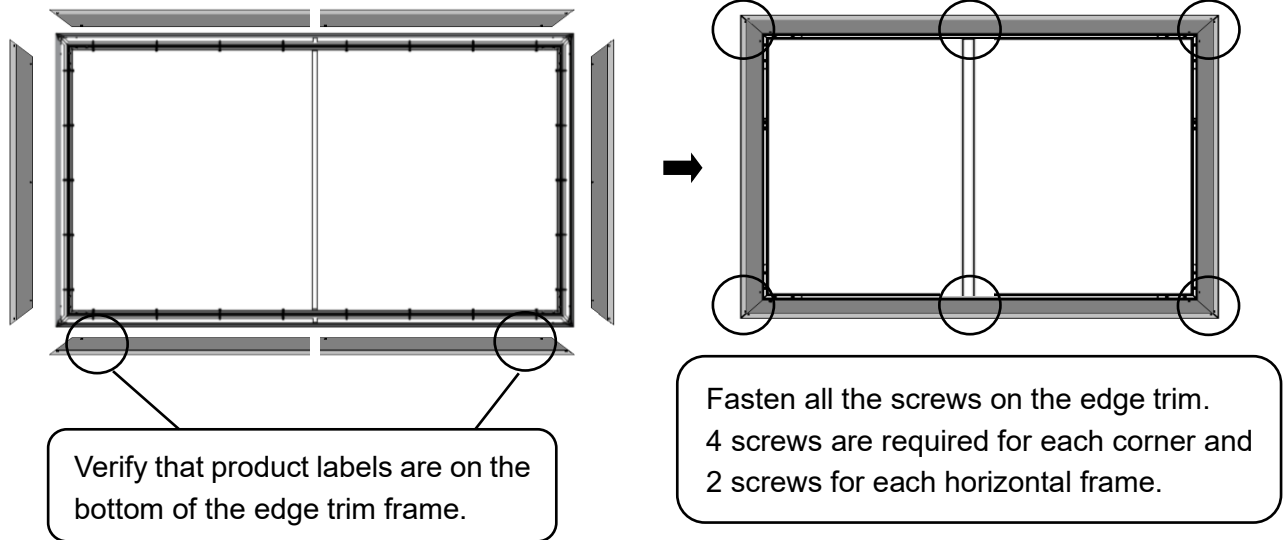
DO NOT PROCEED TO THE EDGE TRIM INSTALALATION STEP IF THERE ARE ANY WAVES OR THE SCREEN SURFACE IS NOT FLAT.

Edge trim Installation

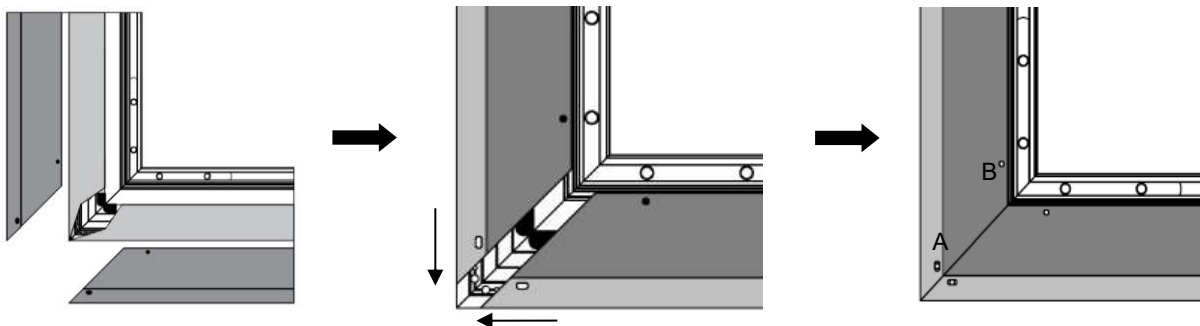
1. Place the **Edge trim** (D) on the four sides of the frame.

(Note: The edge trim with the LOGO on the front should be on the bottom frame right of the screen and can also be distinguished by the product label on the backside.)

2. Place all the trim pieces along the edge of screen material, adjust the trim so that the top and bottom trim pieces are touching and show no gaps in the center. Then align the **M3x8 screw** (G) with the A & B holes as shown in the illustration below.



Edge trim corner installation

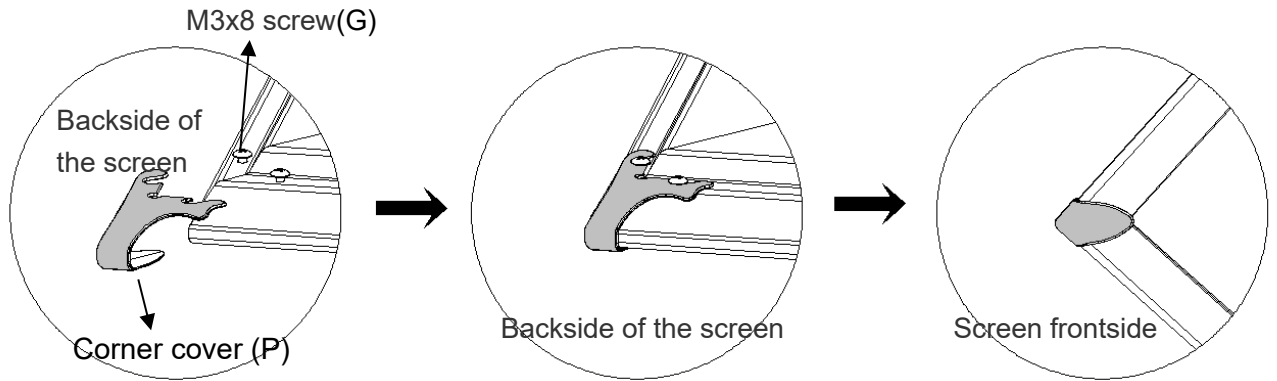


Place the **Edge trim** (D) on the frame, overlap in the frame angle seam, and align them with the hole on the frame leaving no gaps. Then fasten screw A then B.

* Leave approximately a 2mm gap on screw A for the next step.

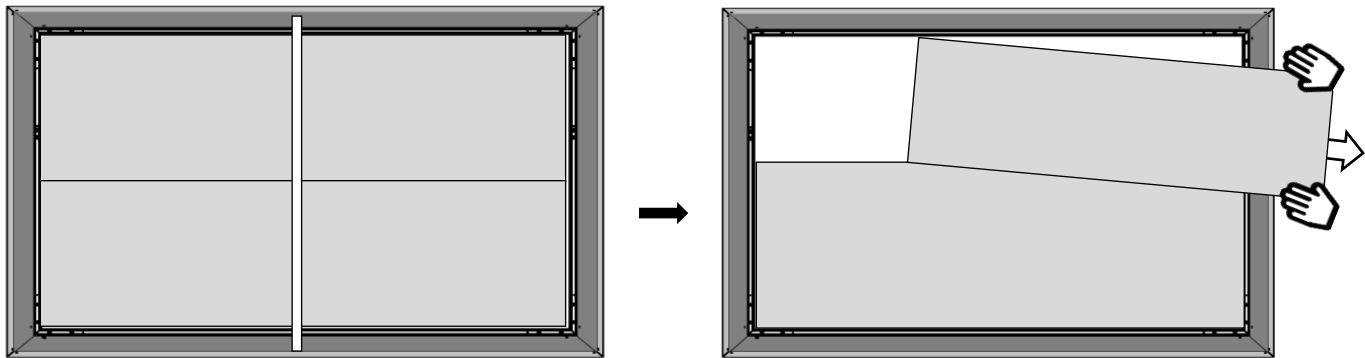
Corner cover installation

After the bezel trim has been installed, place a **corner cover (P)** on all four corners and finish fastening screw A on the corner bezel edge trim to secure it.



Protection Film Removal

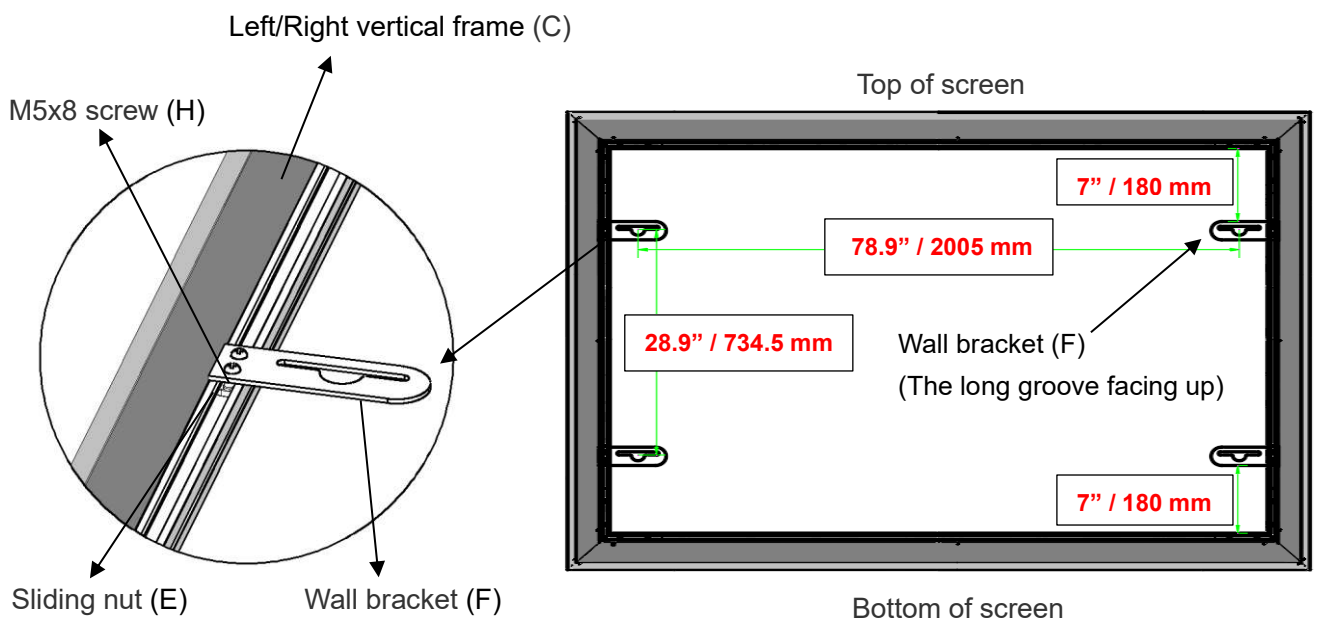
After the edge trim has been installed, gently pull out the film in small sections avoiding the use of too much force to avoid scratching the back of the screen.



Wall bracket installation

Slide the **Sliding nut (E)** to a quarter of the Left/Right **vertical frame (C)**, align the hole of **Wall bracket (F)** with the screw hole of the **Sliding nut (E)**, then fasten with an **M5x8 screw (H)**.

Note: The long groove is on the top.



Notice to Installer:

Please use the following installation instructions to obtain superior optical performance from the Retro Reflective CLR®/ALR (Ceiling/Ambient Light Rejecting) StarBright™ 9 Screen.

The following guidelines should also be followed.

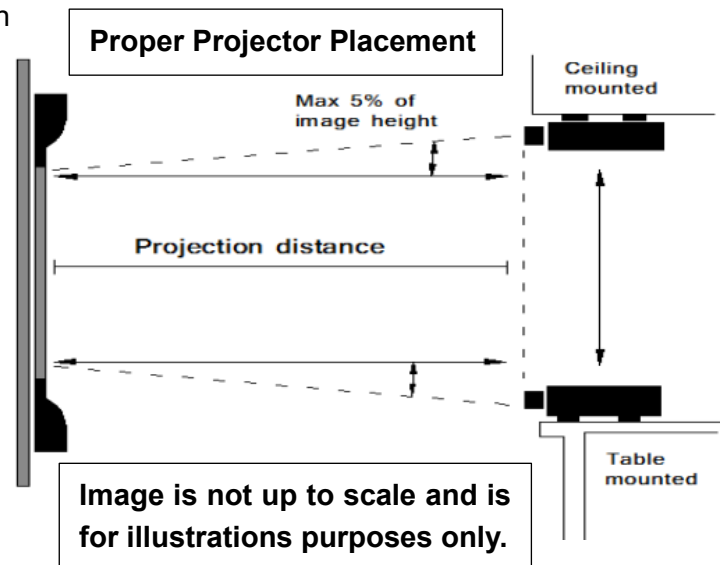
1. Minimum throw distance of 1.5 x the image width

- Avoid a **hotspot** effect
- **Light absorption** – The angle of incident light is too steep and will get absorbed by the optical lenses. This will create a very dim image and affect the overall picture quality.

2. Ambient light should not come from the same direction as the projector's light

3. Not compatible with ultra/short-throw projectors

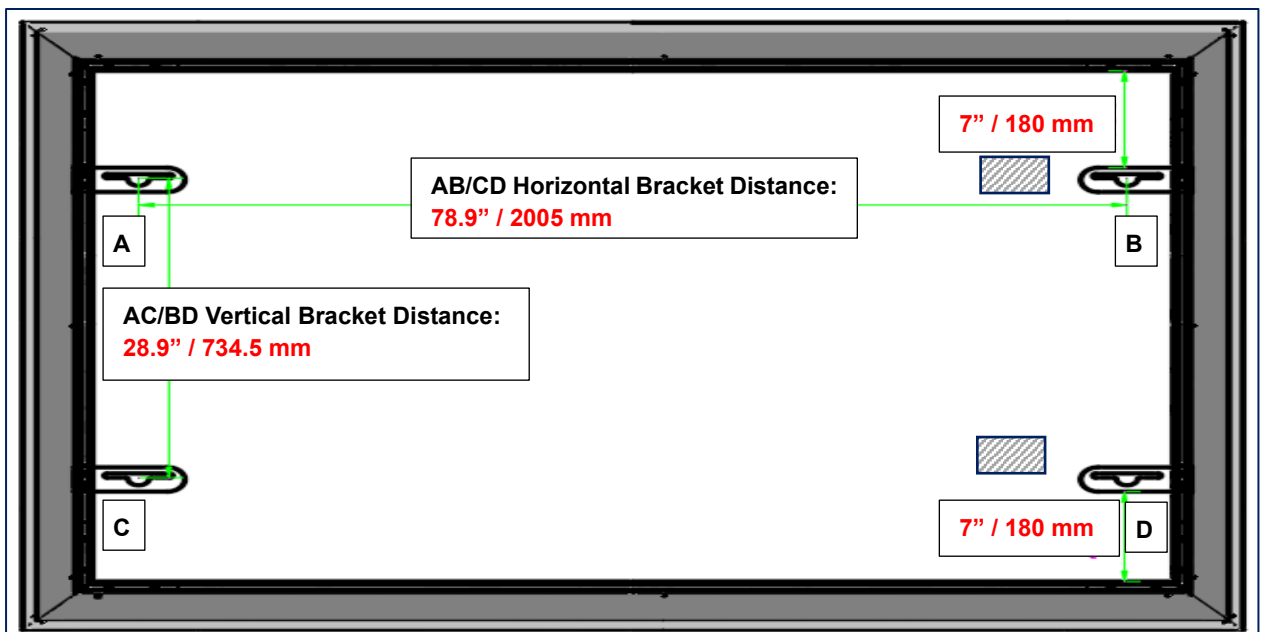
4. Do not install the standard-throw projector at an angle that is greater than 5° off the vertical axis from the screen. The ambient light filtration layer in the material is designed to absorb off-axis light rather than reflect it.

**Installation****Pre-installation and preparation**

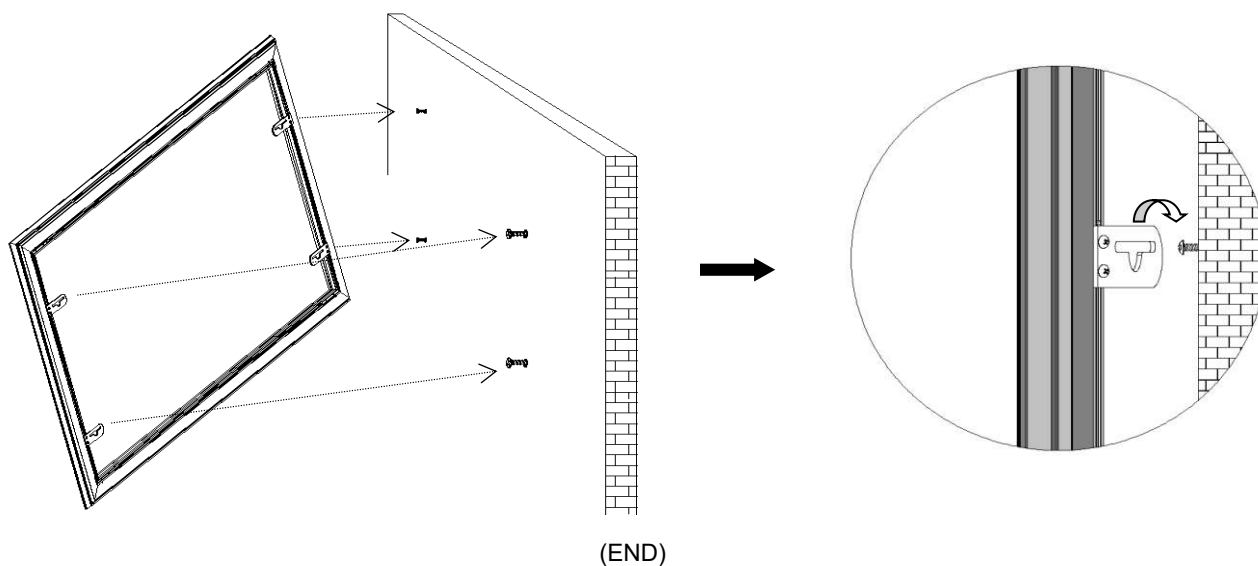
1) Determine where the screen will be installed and mark four holes points according to the horizontal and vertical wall bracket distances, ABCD.

- AB / CD **Horizontal** Distances are 78.9" (2005mm) apart
- AC / BD **Vertical** Distances are 28.9" (734.5mm) apart.

※ Please make sure that points AB and CD are measured horizontally, and points AC and BD are measured vertically.



- 2) Confirm all points are leveled and make any necessary adjustments.
- 3) Drill pilot holes at the four points, A, B, C and D.
- 4) Fasten a screw directly at each location if installing on a wood stud or use dry-wall anchors if installing on dry-wall. Install the screw and leave half-inch away from the wall.
- 5) Two people lift the screen, first clamp the two lower wall brackets on the screws (C / D), and then slide the screen up to clamp the two upper wall brackets on the screws (A / B).
- 6) Slide the screen left or right to assure it is fixed, then try to move the screen forward to confirm all four wall brackets on the screen are stable and properly secured to the screws.



For more information, technical support or your local Elite Screens contact, please visit www.elitescreens.com