



Reference Studio 4k  
Reference Studio AudioWeave 4k  
**Slim**



# User Guide

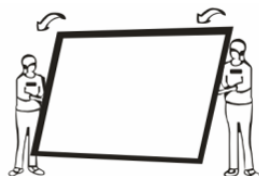
EV-S-1.0  
EV-SAW-1.15

## INTRODUCTION



### WARNING

This product may contain sharp edges, please handle with care. Protective gloves are recommended.



A minimum of two people are needed to assemble and install the screen.



Assembling this product requires a flat ground which is free of obstacles and sharp objects. We highly recommend you supply your own floor cloth

in addition to ours to protect the screen during assembly and installation.

*Thank you for choosing EluneVision for your new projection screen. We hope you enjoy your foray into a fantastic screen for many years to come. We take pride in ease of setup with our screens and should you have any questions or comments regarding your setup, please don't hesitate to call one of our technical reps for answers. We will be more than happy to answer any questions or concerns you may have and we always welcome customer feedback to make product improvements.*



**For general inquiries, please contact us at:**

**sales@elunevision.com**

**Phone Number: 1-877-451-5682**

Disclaimer: We (EluneVision) are not responsible for any direct or indirect damage to property or life related to our product.

## INTRODUCTION

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### Features

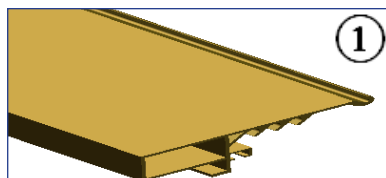
The EluneVision Reference Studio 4k Slim features:

- Elegant** and classical design with black velvet border.
- Spring mount design** which ensures screen surface flatness.
- High strength aluminum frame** for long term durability.
- Easy setup** and compact shipping.
- Suitable for home theaters, showrooms and offices.

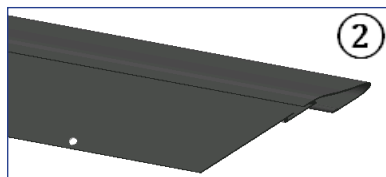
## GETTING STARTED

This guide will provide directions on how to correctly and safely assemble and install your screen. Please follow the steps as instructed. If difficulty arises, please see the Troubleshooting section.

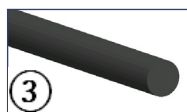
### Parts Included



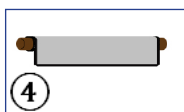
**1** Aluminum Frame  
Long x 2pcs  
Short x 4pcs



**2** Aluminum Velvet Cover  
Long x 2pcs  
Short x 4pcs



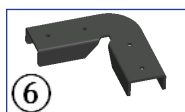
**3** Fiber Glass Rods  
Long x 2pcs  
Short x 4pcs



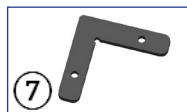
**4** Screen Fabric  
1 Roll



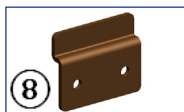
**5** Spring  
(Amount differs on size)



**6** Corner border A  
4pcs



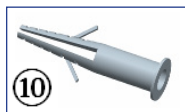
**7** Corner border B  
4pcs



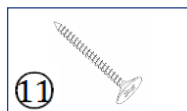
**8** Hanging Bracket A  
(Amount differs on size)



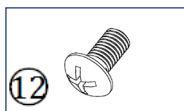
**9** Hanging Bracket B  
2pcs



**10** Expansion Plug  
(Amount differs on size)



**11** Bracket Screw  
(Amount differs on size)



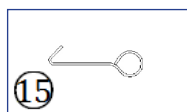
**12** M5 (8mm) Screw  
16pcs



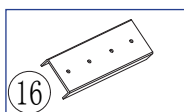
**13** M4 (6mm) Screw  
8pcs



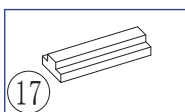
**14** QC Pass Card  
1pc



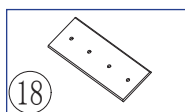
**15** Installation Hook  
2pcs



**16** Joint Brackets  
2pcs



**17** Outer Joint Brackets  
2pcs



**18** Outer Joint Cover  
2pcs

## GETTING STARTED

### General Dimensions

Please make sure you have sufficient space for your screen on the wall or preferred location. Refer to the table below for screen sizes:

Screen Size	Aspect Ratio	Assembled Height	Assembled Width	Assembled Depth
92"	16:9	82"	47"	1 3/4"
100"	16:9	89"	51"	1 3/4"
108"	16:9	96"	54"	1 3/4"
115"	16:9	102"	58"	1 3/4"
125"	16:9	111"	63"	1 3/4"
135"	16:9	120"	68"	1 3/4"
110"	2.35:1	103"	45"	1 3/4"
120"	2.35:1	112"	49"	1 3/4"
130"	2.35:1	122"	53"	1 3/4"
140"	2.35:1	131"	57"	1 3/4"

### Projection Setup

There are two projection methods available: front projection and rear projection. The Reference Studio 4k Slim fixed frame screen is designed for front projection; please make sure you are using the correct projection method.

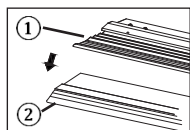
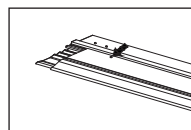


The distance required between the projection screen and the projector depends on the lens in the projector. Please refer to your projector's manual for more details.

## ASSEMBLY

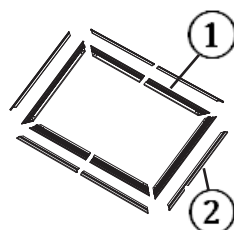
You are now ready to assemble your screen. You will be assembling 3 major parts of the screen: the Aluminum Frame, Screen Fabric, and Velvet Cover. Please carefully go through the following steps one by one.

### Before You Start



The Aluminum Frame and Velvet Cover are pre-assembled for transportation. Separate the outer frame from the inner frame.

You will be assembling the screen on a flat ground. You will need a clearance area of at least two feet away from the screen (refer to General Dimensions). Make sure no objects are underneath the screen. Lay out the frames according to the diagram on the right.



Before you start handling parts, make sure the work area is safe and remains safe during assembly and installation. Please note and be aware of the following:



#### Parts may contain sharp edges.

Avoid touching the indicated spots. Do not swing the aluminum frames; be aware of the edges when handling the frames. Protective gloves are recommended.



#### Beware of pinching points.

You need to be cautious joining pieces together when this icon is present. Keep body parts away from the indicated spots. Protective gloves recommended.



#### Tools required.

You need to provide your own tools for this task to be completed. Incorrect tools may cause damage to the hardware.



#### Special attention needed.

Please refer to the description whenever this icon present. Detailed instructions are in the description which are not present in the diagram.

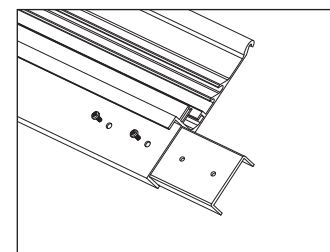
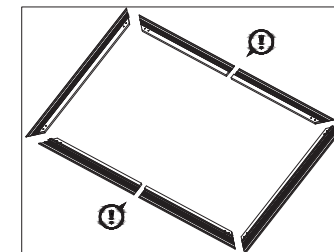
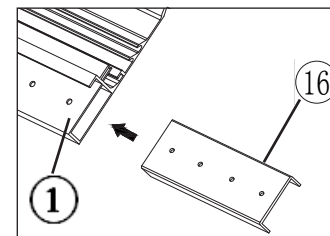


Assembling the screen requires two people, we recommend you and your partner work together to assemble the screen. Seek assistance when handling heavy objects or hanging the screen.

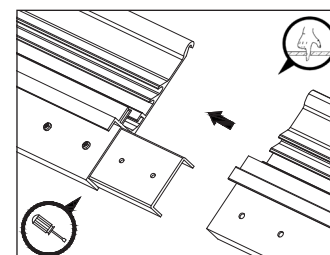
## ASSEMBLY

### Aluminum Frame

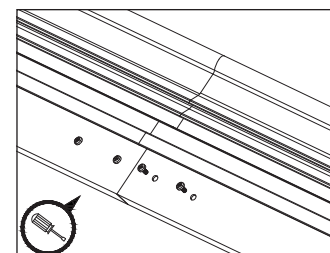
1. Join the two four short top and bottom aluminum rail into two long pieces. Lay the aluminum frames as shown below:



Insert Joint Brackets into top and bottom rail (the four short aluminum frame pieces). Insert the bracket and secure it on one side using M4 screws.



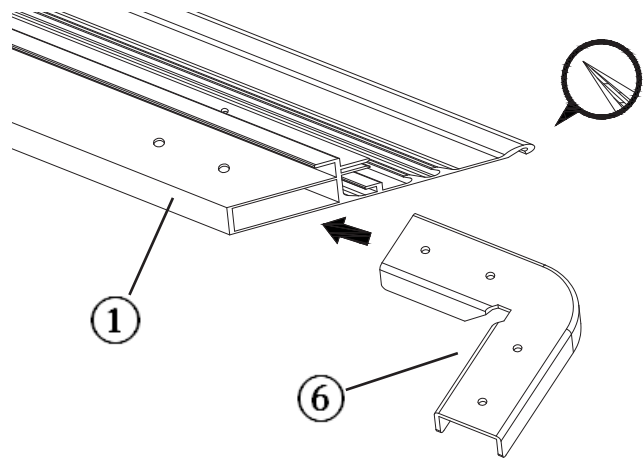
Slide the other short frame piece into the one that is assembled.



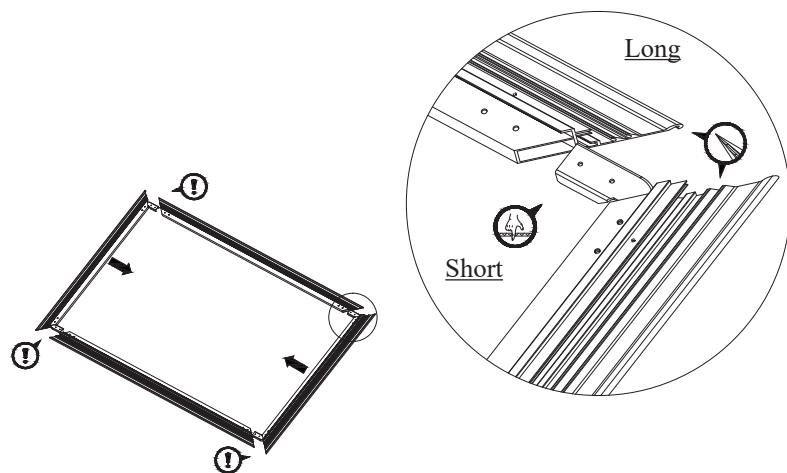
Make sure there are no gaps greater than 1mm within the two pieces and tighten the screws on the frames.

## ASSEMBLY

- 2a.** Insert Corner Border A into both ends of the short aluminum frame as shown below.



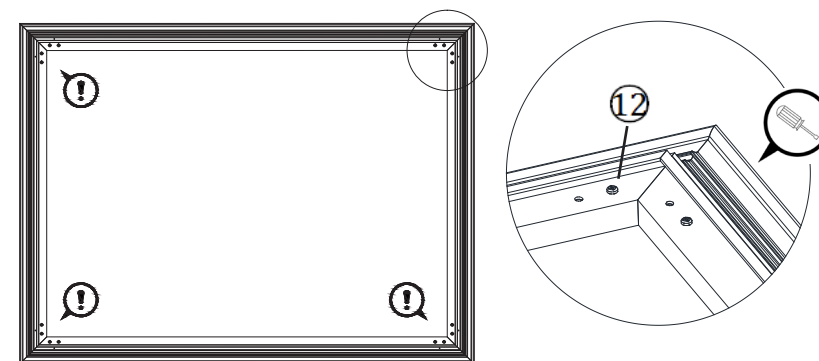
- 2b.** Slide the short frames into long frames to join the entire frame together, as shown below.



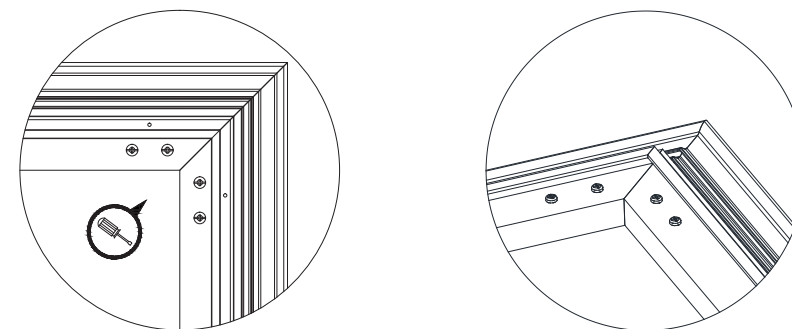
- !** Lock down the corners between the frames when all the pieces are properly positioned and corners aligned.

## ASSEMBLY

- 2c.** After you have joined all four corners, start at one corner and align the two frame pieces forming the corner. Insert two of M5 screws into the Corner Border A inside the aluminum frames, then partially tighten the screws.



Push the two frame pieces together so the gap between them is less than 2 mm. Fully tighten the screws in place. Make sure the gap between them is less than 2 mm and then screw in the remaining screws.

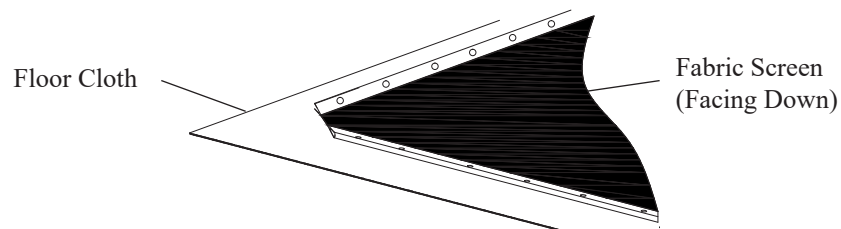


- !** Repeat the above step for the other three corners, in clockwise or counter clockwise direction.

## Screen Fabric

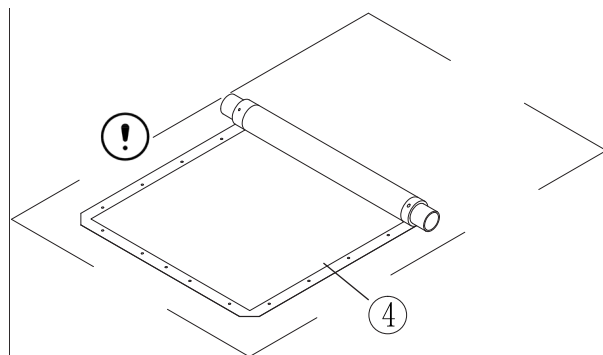
The following steps will outline how to unroll the screen material and mount it onto the frame assembled in the previous steps.

Make sure the ground is clear of any sharp obstacles and make sure there is a floor cloth covering the ground. Do not remove the floor cloth until the assembly is completed. The floor cloth will protect the fabric screen against dirt or other particles from the ground. The setup is shown below.



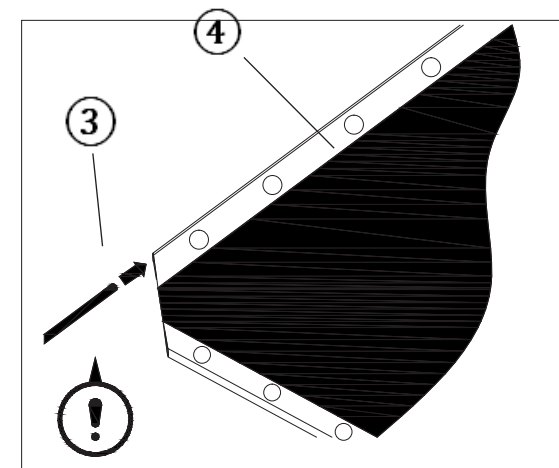
**3a.** The fabric screen needs to be slowly unrolled from the cardboard drum onto the ground, front facing down. If your screen is Reference Studio 4K, the front of the fabric is white and the back is black. If your screen is AudioWeave, the side with denser weave pattern is the front.

**3b.** You need to be make sure the floor cloth that was rolled together with the fabric, is underneath the fabric on the ground. The floor cloth will protect the fabric screen against dirt or damage from the ground. Unroll the fabric screen slowly from the cardboard drum onto the ground. The front of the fabric should be facing the ground, and the back facing upwards.



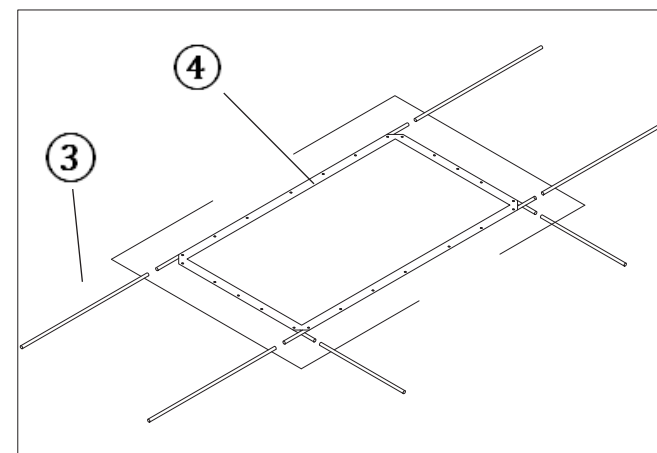
Wear protective gloves to prevent scratches or other damage to fabric. Make sure the ground is free of sharp objects and do not put any tools or other objects onto the fabric.

**4a)** Gather the plastic rods and sort according to length. The plastic rods will be inserted into the sleeves on the outermost part of the fabric.



The rods have red rubber caps on each end to protect them from damaging the fabric; do not take those caps off.

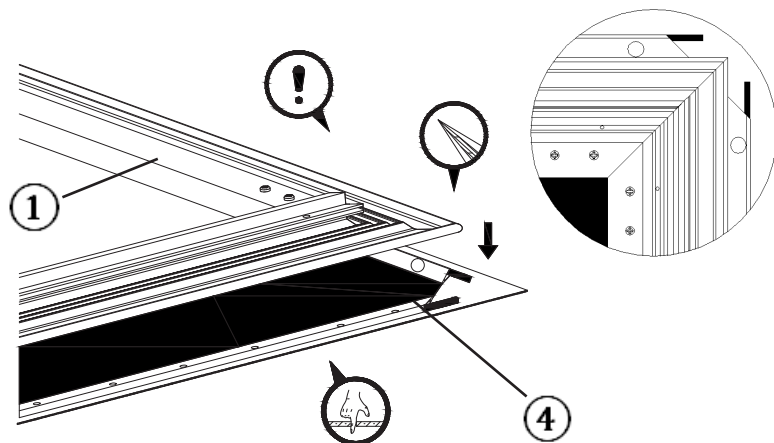
**4b)** Insert the plastic rods into the four sides of the fabric. Make sure you are using the correctly sized rod for the correct position as the rods should be covering the whole sleeve of the fabric.



The four plastic rods of the same length make up the two horizontal sides and the two rods of the same length make up the vertical side of the fabric.

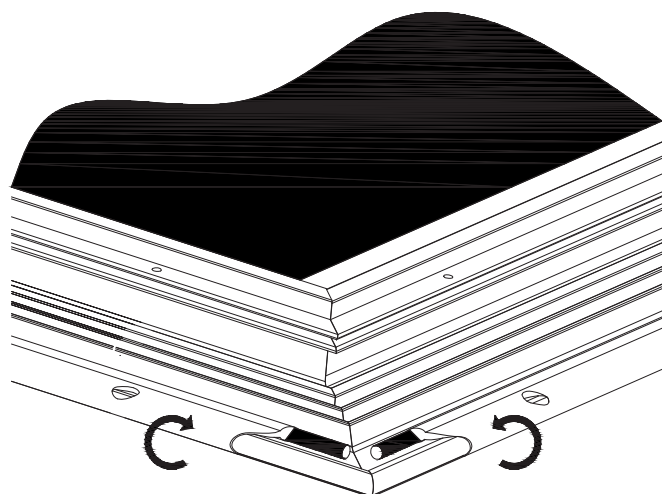
## ASSEMBLY

- 3c.** Carefully place the assembled aluminum frame onto the fabric with the frame's large flat surface against the back (labeled) of the screen as shown below. Make sure the aluminum frame is centered properly by aligning the corners of the frame to the corners of the fabric.



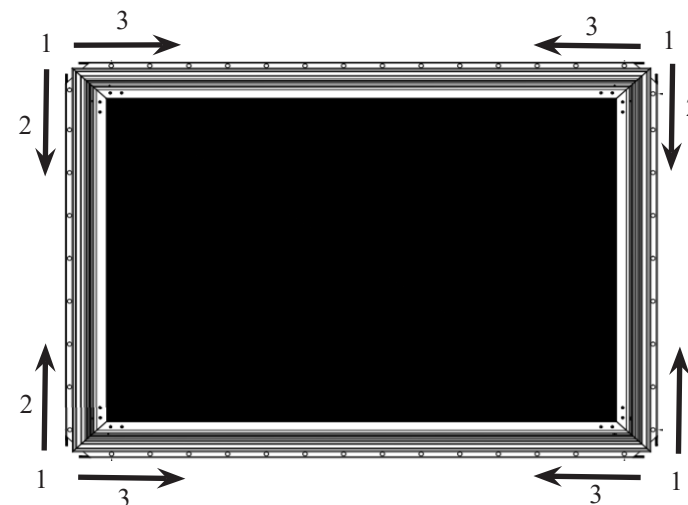
**!** Do not stand the frame on its corner as the sharp edge will damage the screen fabric.

- 3d.** Flip over the sides of the fabric with plastic rods onto the edges of the aluminum frame, as illustrated below:

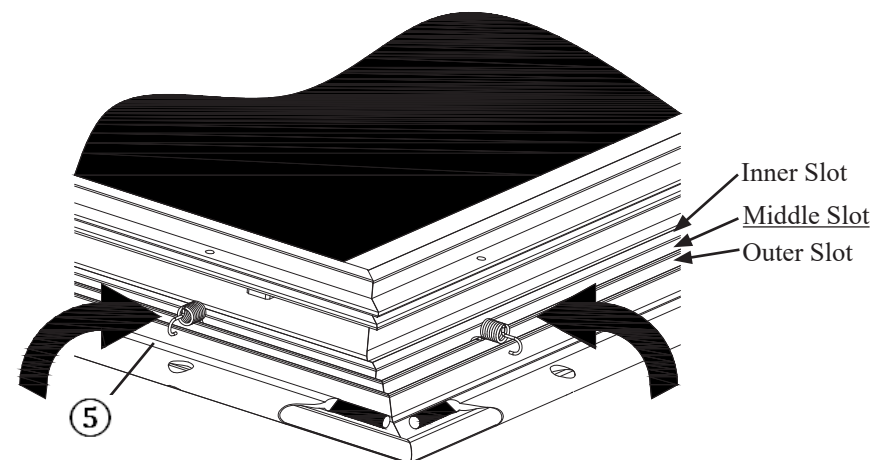


## ASSEMBLY

- 4a.** The fabric and the frame will be joined with springs. First the corners will be secured, then the sides will be secured starting from the corners and moving towards the middle. The shorter sides should be secured first for optimal tension. The priority that the springs should be secured is below.

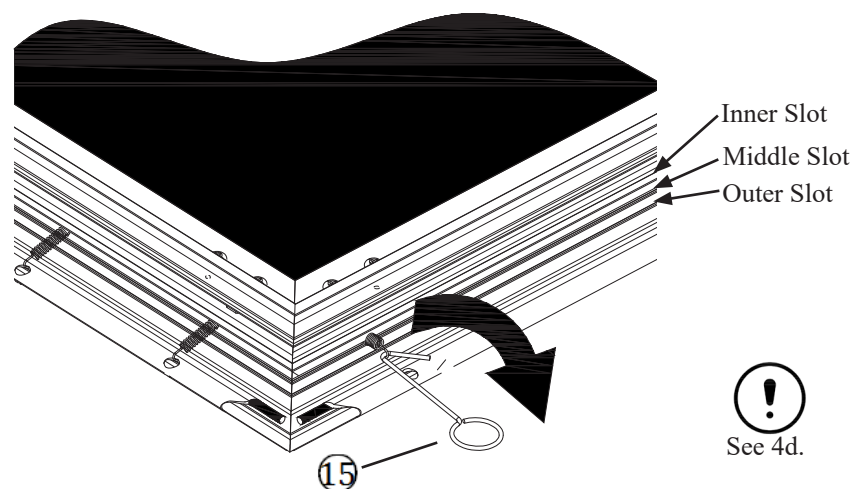


- 4b.** Select a corner and place springs on each side of it as shown below. Make sure the springs are in the direction so that the larger and more circular hook faces the rods while the shorter hook is inserted into the middle slot of the aluminum frame.



## ASSEMBLY

- 4c.** To mount a spring, you need to use the installation hook provided. Pull the spring towards the glass rod. While pulling the spring, carefully and slowly slide the hook part of the spring through the hole in the fabric and hook onto the glass rod.



- !** Make sure as to not hook the spring on the screen material as this can cause it to rip. Only hook the spring around the rod to secure the screen material.

- 4d.** Repeat step b) and c) until you have mounted every hole in the fabric with a spring, in a sequence shown in a).

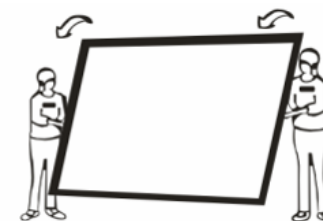
- !** You need to follow the sequence indicated above in a). This way, you can minimize the unnecessary stress to the screen fabric.

- !** You want to execute step c) with extra caution. When you let go of the spring, you need to make sure the spring is only lying on the glass rod, not the fabric.

- !** The three slots are designed for the screen fabric to stretch at different ambient temperature. If middle slot is too tight or loose for your screen consider switching to a different slot.

## ASSEMBLY

- 4e.** After completing step 4d, you can now stand the screen up on its side as shown below. Make sure the ground is free of obstacles and rough objects before you do so. We recommend to stand the screen on a soft cushion in addition to the floor cloth we provided to prevent damage to the screen as well as the flooring.



- !** Do not slide or drag the screen across the floor.

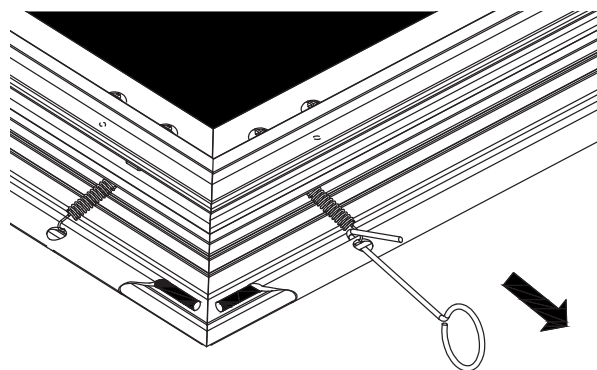
- 4f.** Have one person hold the screen upright by the aluminum frame on the back and not by the fabric. Carefully inspect the front of the screen fabric. The fabric must wrap around the Aluminum Frame so that the sleeve of the fabric will not be shown over the 1/2" outer frame.



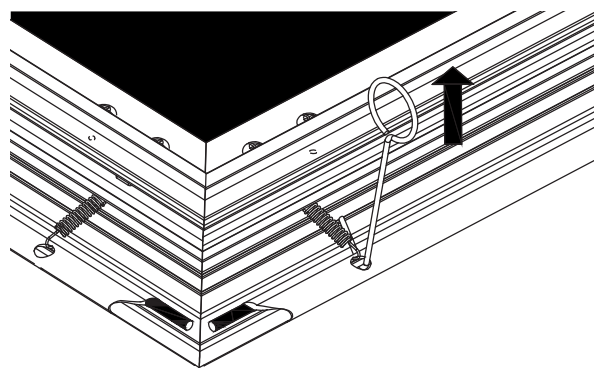
If you have wrinkles on your screen fabric, first, consider fine adjustments. Take off the spring(s) located in the area with wrinkles, evenly spread the screen fabric across the frame, then remount the springs. If wrinkles still exist, go back to Assemble-Screen Fabric, and repeat step 3a to 4f. Make sure parts are properly oriented and using the correct methods. Also make sure, you are using the correct sequence for mounting the springs. If you need more tension on the fabric, please see next page.

## ASSEMBLY

- 4g. If you are already using the inner slot, and still need more tension, you will need to pull on the screen fabric manually to tighten it, then rest the fabric on the springs and let the springs hang on to the fabric. Locate the wrinkles on the screen and the springs that are near them. Start from the spring closest to the wrinkle and insert the Installation Hook directly into the fabric sleeve. Make sure the installation hook is over the fiber plastic rod and not the springs or the fabric alone. Pull the spring upwards and away from the frame.



First, pull the installation hook away from the edge. This will stretch the screen fabric in the viewable area.

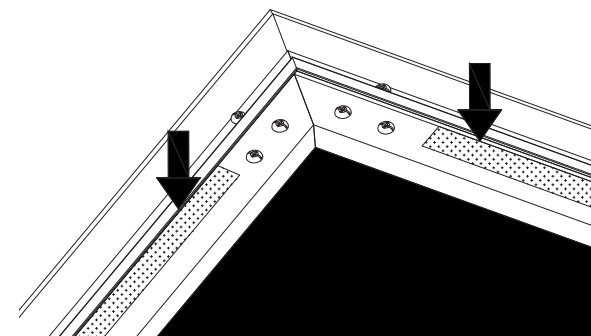


Repeat the above steps for other springs near the wrinkles. Repeat as necessary until there are no more wrinkles in the screen fabric. If necessary, you may also use your hands for this operation described above. Please wear protective gloves and only pull on the sleeve of the fabric.

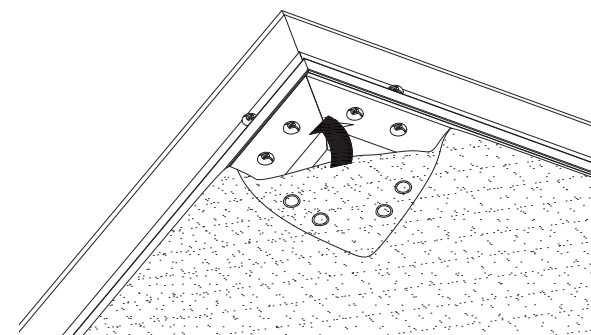
## ASSEMBLY

### Black Backing (AudioWeave Material Only)

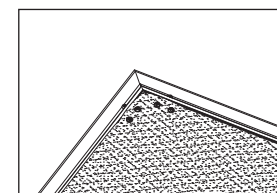
5. If your screen is AudioWeave material, your screen will come with a Black Backing. The smooth side of the Black Backing will be the front.



Place the Black Backing along the top of the back of the Aluminum Frame where Velcro strips are located. Evenly distribute all four sides on the Velcro strips.

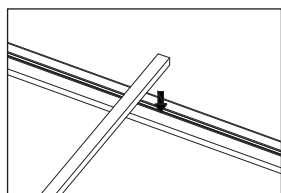
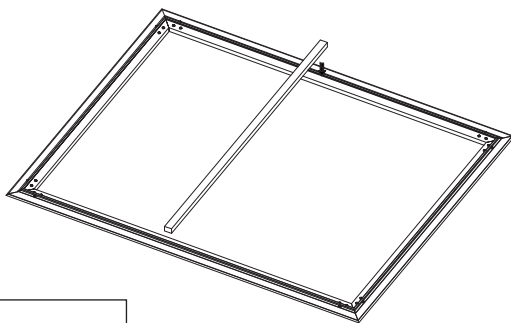


Take out one screw, flip the corner of the Black Backing over and secure the screw onto the frame through the Black Backing. Repeat this step, one screw at a time until all 4 screws are secured.

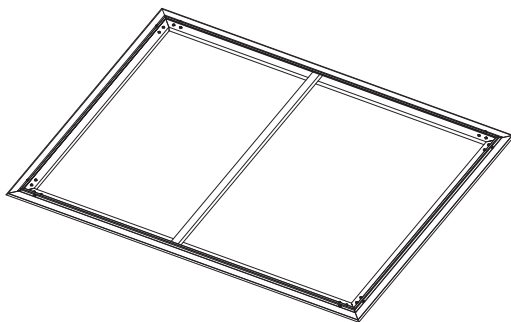


## Support Bar

6. Depending on the size of your screen, you may require a middle support bar. After you have put on the Black Backing, slide the support bar in the groove between the two horizontal frame pieces.



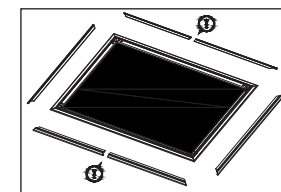
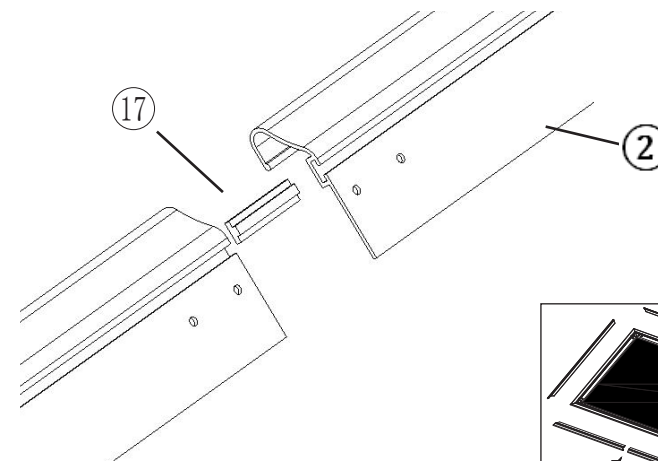
With one end of the bar in place, have someone on the other side hold the screen in place. Pull the frame just enough to get the support bar in place. The tension of the screen material will keep the support bar in place.



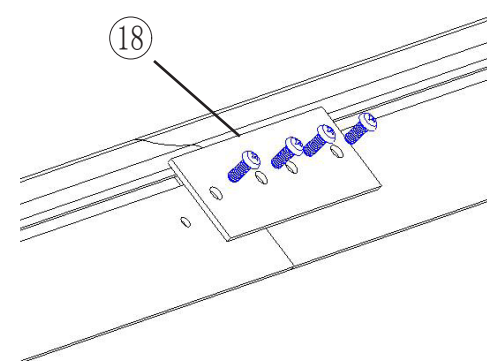
Take caution when handling the support bar as the edge may be sharp and can puncture the screen material if handled improperly.

## Velvet Cover

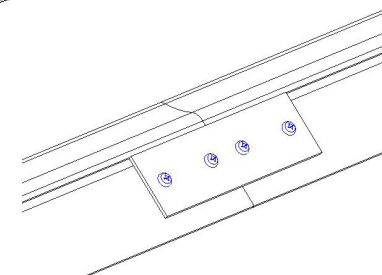
- 7a. Join 2 of the short velvet covers to make one long piece by inserting the Outer Joint Brackets between them. Repeat with the remaining 2 short velvet covers.



- 7b. Align the velvet covers together and place the Outer Joint Cover on top of the holes. Screw the Outer Joint Cover in place when the gap between the 2 pieces is less than 1 mm.

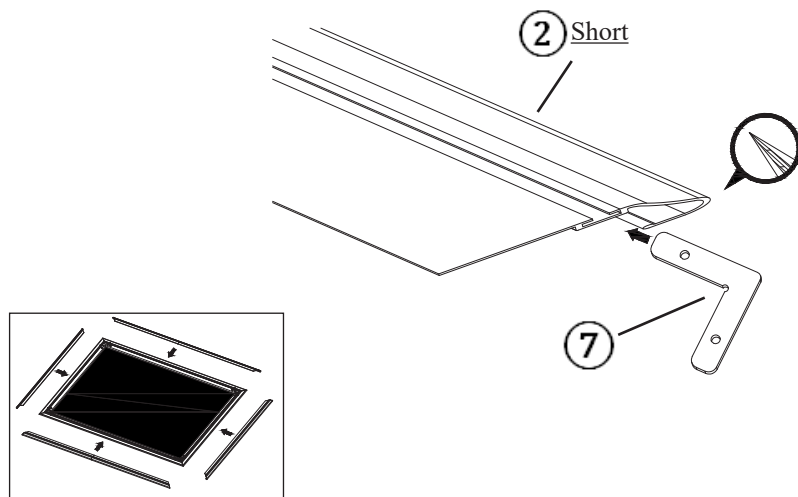


Make sure there are no gaps greater than 1mm within the two pieces and then secure the screws on the frames.

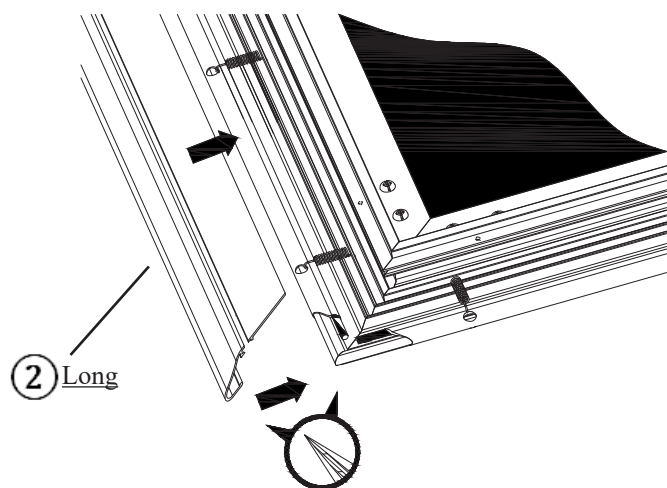


## ASSEMBLY

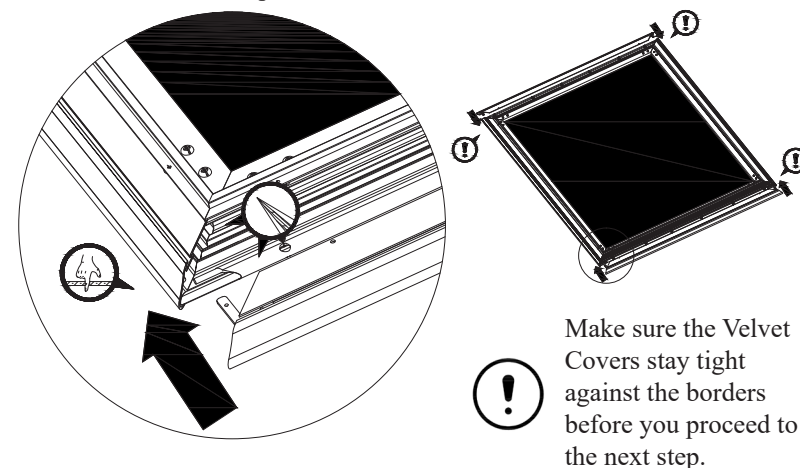
- 7c.** Once you have completed the previous steps, you can now assemble the aluminum velvet covers. Insert the Corner Bracket B into both ends of the short Velvet Cover.



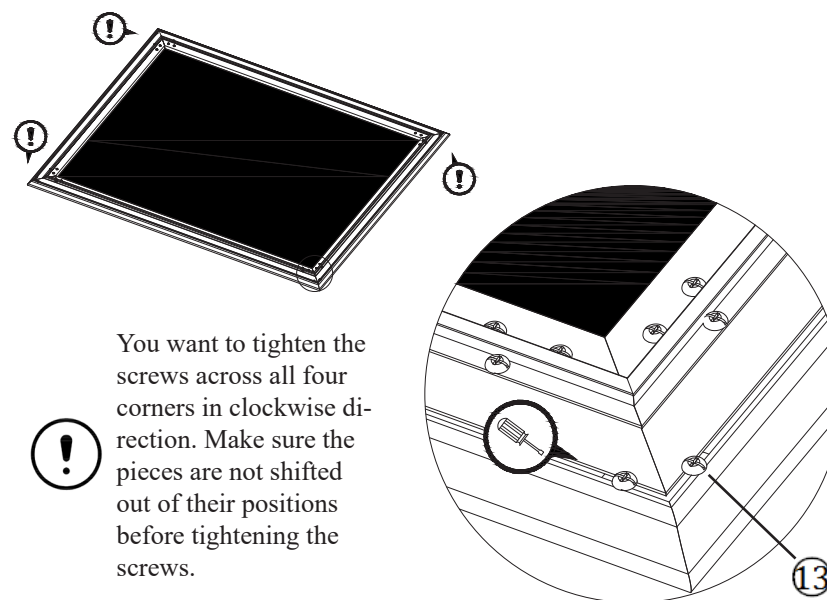
- 7d.** Slide the long Velvet Cover onto the border of the frame with the same length. Lift the corresponding border a tiny bit (1/4") off the ground and slide the Velvet Cover onto the border with its long side facing up as shown below.



- 7e.** Insert the short Velvet Covers into the long Velvet Covers following the procedure in the previous step. Corner Bracket B should be slotted into both Velvet Covers. Repeat with the other short Velvet Cover.



- 7f.** Push the Velvet covers together so there is no gap between them. Insert and tighten the M4 screws as shown in the diagram below.



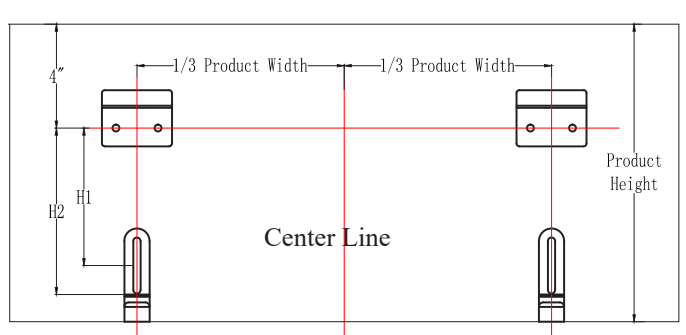
## ASSEMBLY

## INSTALLATION

You are now ready to mount your screen. Please make sure your screen is fully assembled before proceeding.

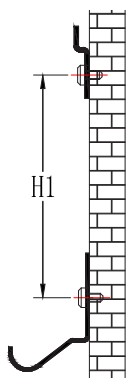
### Hanging Brackets

8. To mount the screen to the wall, the location of the 4 edges need to be determined. For screen specs, please refer to General Dimensions (page 4)



Draw a center line for your screen in the desired location. Mount the Hanging Brackets A at one third of the product width from the center line, and 4" (102 mm) below the top of the screen. The number of Hanging Brackets B included may differ with different screen sizes.

Please make sure the wall you are mounting your screen to is able to support the weight of the screen. We recommend using your own hardware for the installation. If using the hardware supplied, (Wall Screws and Expansion Plug) ensure that it is compatible with the wall.



To mount Hanging Brackets B, measure a distance H1. This will be the distance from the screws from Hanging Brackets A to the screws on Hanging Bracket B.

The length of H1 is:  
Drilling Height H1= Product Height - 5 7/16" (138mm)

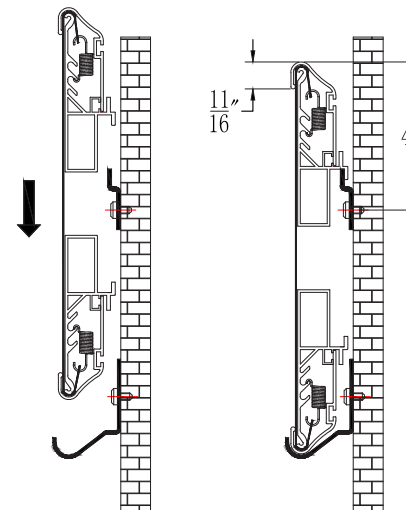


Please make sure the brackets are positioned correctly. Otherwise, the brackets will fail to support the screen.

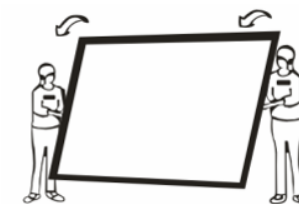
## INSTALLATION

### Hanging Your Screen

9. The screen is now ready to be mounted onto the wall. Anchor Hanging Brackets A into the upper frame, while the lower frame sits on Hanging Brackets B, as shown below.



The screen needs to be stood up vertically on the floor. Two people are necessary to carry and lift the screen up onto the brackets.



Make sure the screen is properly anchored in Hanging Brackets A.

Now, you are ready to enjoy the elegant design and superb performance of Reference Studio 4k Slim.



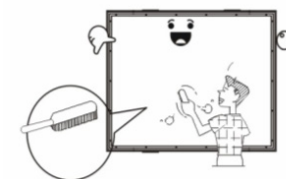
## General Notes

Please handle the screen with care to keep it in good condition for many years to come.

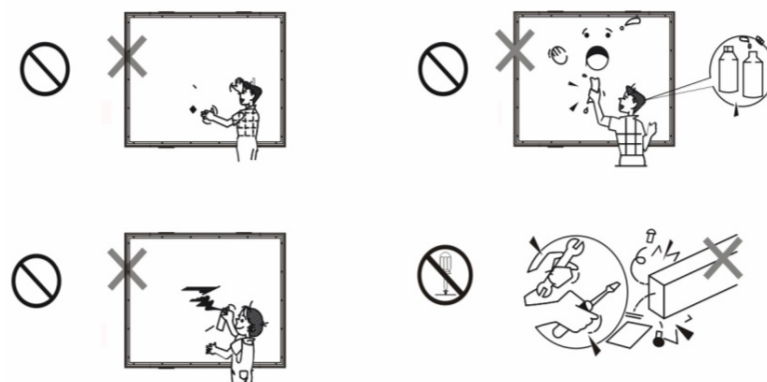
1. Do not touch the fabric surface by hand or with hard objects. Doing so may cause scratches on the projection material.
2. Do not fold the screen fabric. This will cause there to be creases in the material.
3. Do not scratch or write on the screen.
4. Do not put sharp objects on or underneath the screen during assembly or maintenance. This can damage the screen material.
5. Do not attempt to assemble or disassemble using methods not mentioned in this guide.
6. Do not clean the screen fabric with corrosive or abrasive detergent.
7. When mounting and dismounting the screen, 2 people are needed. Do not stand underneath the screen when it is being mounted or hanging.
8. Keep any spare parts and this instruction manual where they can accessed if needed. Keep out of reach of small children.
9. Make sure the mounting hardware is strong enough to support the weight of the screen and is suitable for the wall it is being installed on.

## Cleaning Guide

For cleaning dirt and dust off the fabric, we recommend using a soft damp cloth. For tougher stains, use a soft brush and water to clean the screen. Be very careful when cleaning the screen material so it does not become damaged and worsen the viewing image.



Do not use any corrosive or abrasive materials to clean the screen as this can damage the screen. Proper screen care and maintenance will keep your projection image looking exactly as intended.



## TROUBLESHOOTING

1. *I am missing parts from my packaging.*

**Solution:** The Fiber Plastic Rods may be stored inside the roll of Screen Fabric. Check if your missing parts are already pre-installed onto the screen. If you still have parts missing, contact customer support.

2. *My screen fabric is damaged when I open the package.*

**Solution:** In case of damaged or defective product, please contact your vendor or customer support right away.

3. *It is very difficult to pull the springs.*

**Solution:** Make sure you are using the correct methods. Seek assistance if needed, careless operation may risk damaging the screen.

4. *I see the sleeve of the fabric shown over the Velvet Cover of the screen after I fully assembled it.*

**Solution:** The Velvet Covers have to be dismounted and then repeat steps 4-6 (Assembly - Fabric Screen). Make sure the screen fabric is not shifted, and the evenly distribute the fabric across the frame. Inspect the screen fabric before installing the Velvet Covers.

5. *I see wrinkles and lines on the screen projection surface.*

**Solution:** If you just installed this screen, and you see lines or wrinkles on the screen surface, do not panic! The screen material is a flexible projection material and depending on how the screen material is handled or installed, the screen may have wrinkles. With proper adjustments they will disappear.

Check the tension of the screen material, and smooth out the material evenly along the side of the Plastic Rod holding the screen. Go through step 5g and make sure there is sufficient tension on the screen. If done properly, you should have very few to no wrinkles on the screen. Consider leaving your screen in a warm environment for up to few weeks which will allow the fabric to relax and flatten itself overtime. Install the screen on the wall properly before doing so; do not lean the screen against other objects or leaving it on the ground. If you still have wrinkles over a few weeks or if you have any concerns, consider contact customer support.

## TROUBLESHOOTING

6. *I have dents on the screen.*

**Solution:** If the dent does not puncture the screen material, leave the screen tensioned for several days, the dent should disappear. If the dent does not disappear or if the dent goes through the screen material, please contact EluneVision customer support.

7. *The corners of the screen material are wrinkled.*

**Solution:** This is a common user error when the frame is jammed against the material when installing on the ground. You can easily eliminate the wrinkles by using the flaps at each corners of the screen material. Go back to steps 5h and 5i, take out the outer frame, then tension the corners. You do not need a lot of tension to make the corners flat. Lift the screen from the ground and put the outer frame onto the screen. Make sure to give the outer frame enough clearance off the ground until it is in place.



**ELUNEVISION**