



# **Aeon CineGrey 3D® AT Series**

EDGE FREE® Ceiling/Ambient Light Rejecting

Acoustically Transparent Fixed Frame Screen

## USER'S GUIDE








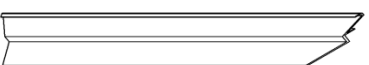
### **Product Description:**

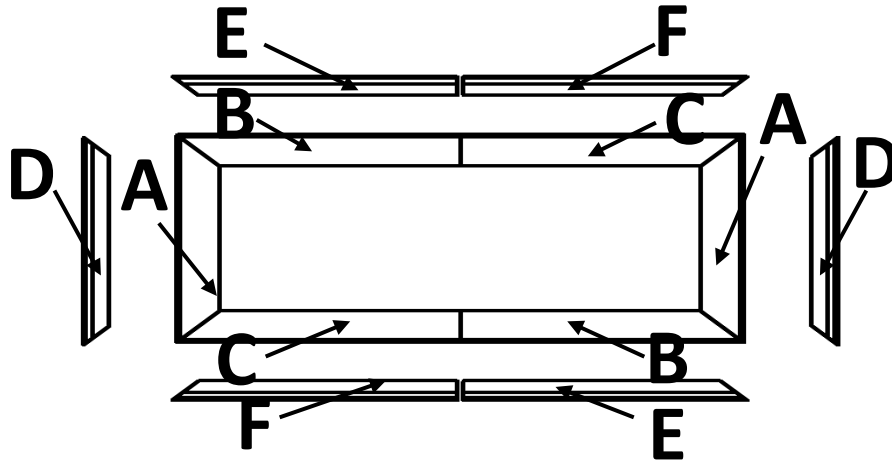
The **Aeon Series** is a fixed frame projection screen that uses Elite's EDGE FREE® technology. The EDGE FREE® design resembles a giant size flat panel TV display. The **Aeon** includes a bezel trim to further enhance the frame appearance and absorb projector overshoot. An optional LED kit is available for backlighting.

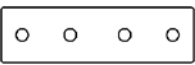


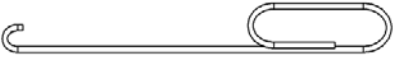









***Congratulations on your new Aeon CineGrey 3D® AT purchase!** The **ISF Certified CineGrey 3D® AT** is an ambient and ceiling light rejecting (ALR/CLR®) front projection screen material that is perforated for acoustic transparency. It is precisely formulated for environments with minimal control over room lighting. It was designed to *enhance picture brightness, offer accurate color fidelity, improve contrast and allow sound to pass through.**

In order for the **CineGrey 3D® AT material** to maintain its projection qualities and provide optimum performance please refer to the list below for proper maintenance and cleaning.

- Use a dry microfiber cloth to remove dust from the screen's surface.
- When cleaning, use a damp microfiber cloth with warm water to remove any marks.
- Never rub or apply pressure when cleaning the surface.
- Never attempt to use any solutions, chemicals or abrasive cleaners on the screen surface.
- In order to avoid damaging the screen, avoid touching it directly with your fingers, pens/pencils or any other sharp or abrasive objects.

1. Frame and Edge Trim Parts List			
Qty item	2 pcs Main Frame Parts	Qty item	2 pcs Edge Trim Parts
Part A.	vertical frame 	Part D.	
Part B.	½ horizontal frame 	Part E.	
Part C.	½ horizontal frame 	Part F.	



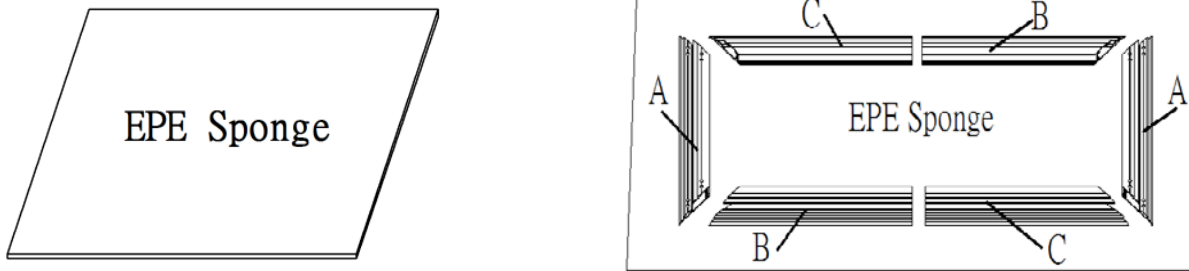
2. Hardware Parts List				
a. 	b. 	c. 	d. 	
e. 	f. 	g. 	h. 	i. 
j. 	k. 	l. 		m. 

Item	Parts List	100H	110H	120H
a.	Center Joints (1)	4	4	4
b.	Elbow Joints (2)	8	8	8
c.	M4x6 Screws	60	60	60
d.	Spring Hook	2	2	2
e.	Spring	92	96	104
f.	Top wall brackets	2	2	2
g.	Φ5x50 Wall Screws	6	6	6
h.	Hollow Wall anchors	6	6	6
i.	Bottom wall brackets	2	2	2
j.	Angle cover	4	4	4
k.	M4x7 Screws	8	8	8
l.	Center Support Bar	1	1	1
m.	White gloves	2	2	2

## Frame Assembly

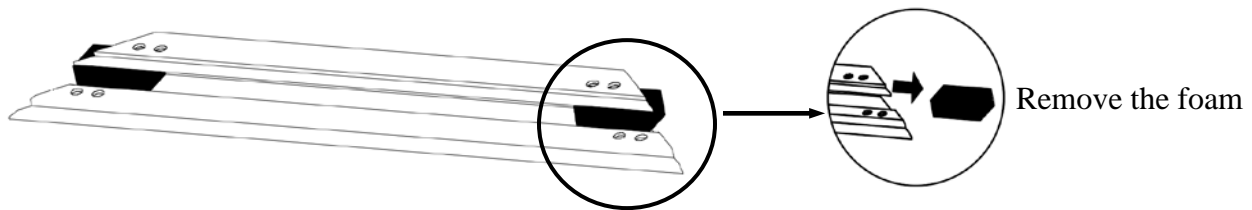
**Step 1:** Place the included soft padded EPE sponge sheet on a clean area where the screen will be assembled.

**Step 2:** Position the pieces of the frame on the EPE sponge in the arrangement shown below

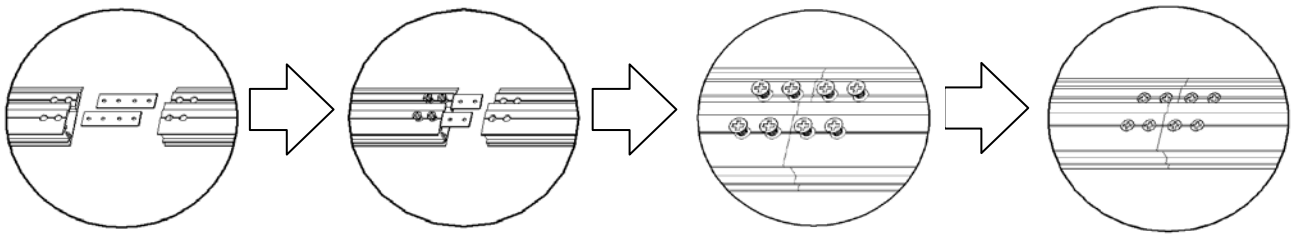


**Step 3:** Remove the foam in all frame ends before assembling the frame.

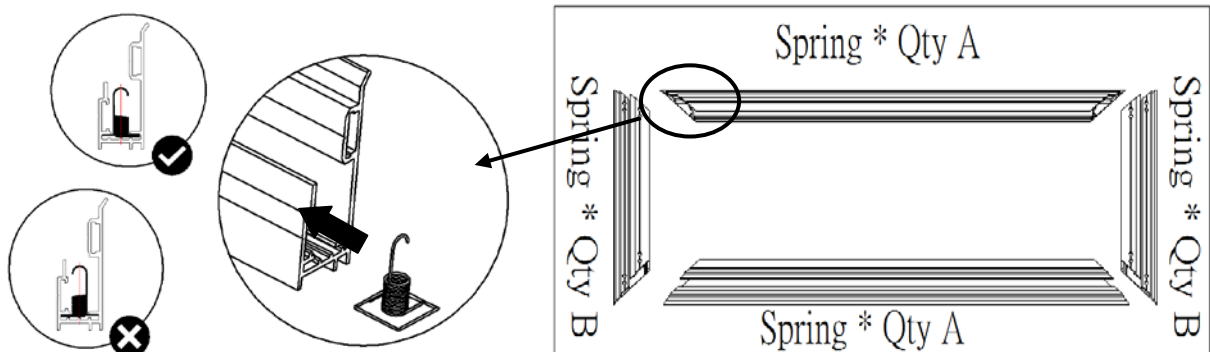
**Note:** Do not tilt the frame to prevent the springs from slipping out of the frame.



**Step 4:** Insert the *center joint (a)* connectors into *one-half of the horizontal frame (b/c)* and secure with the *M4x6 screws (c)*.



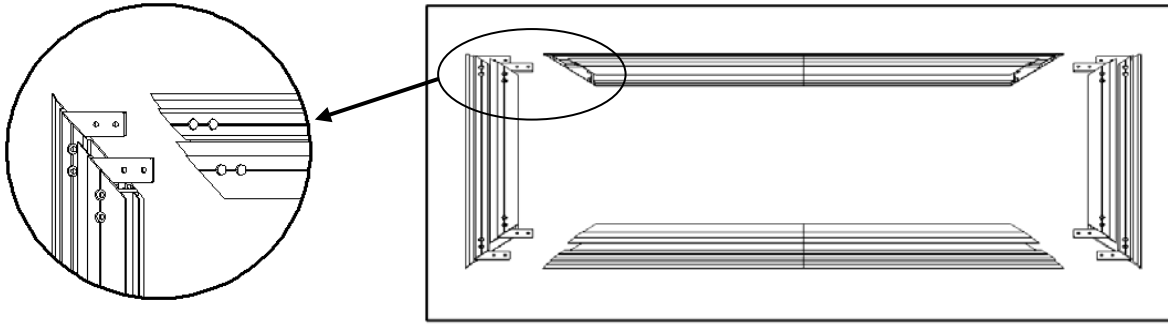
**Step 5:** Insert the *springs (e)* into the grooves of the frame. The spring's hooks should be facing the front side of the frame. For the correct amount of springs to place into the frame, please refer to the table listed below.



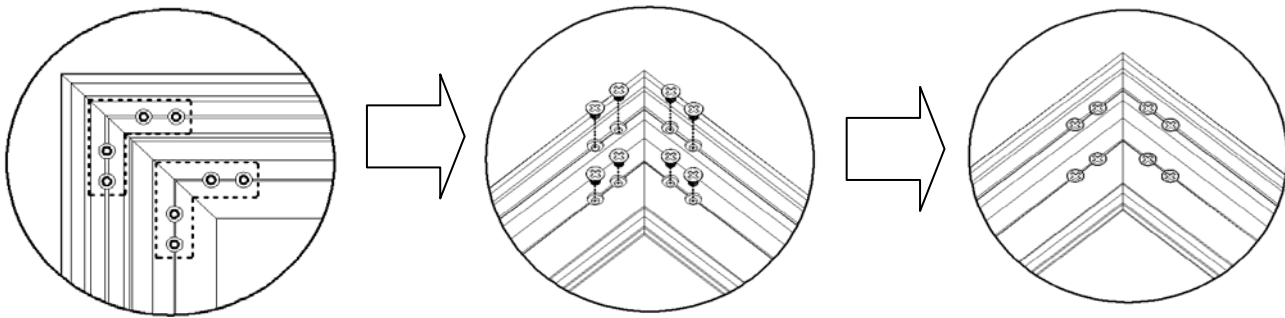
**Note:** The springs are pre-installed into the grooves of the frame.

Screen Size		100H	110H	120H
Spring Qty	A	29	31	33
	B	17	17	19

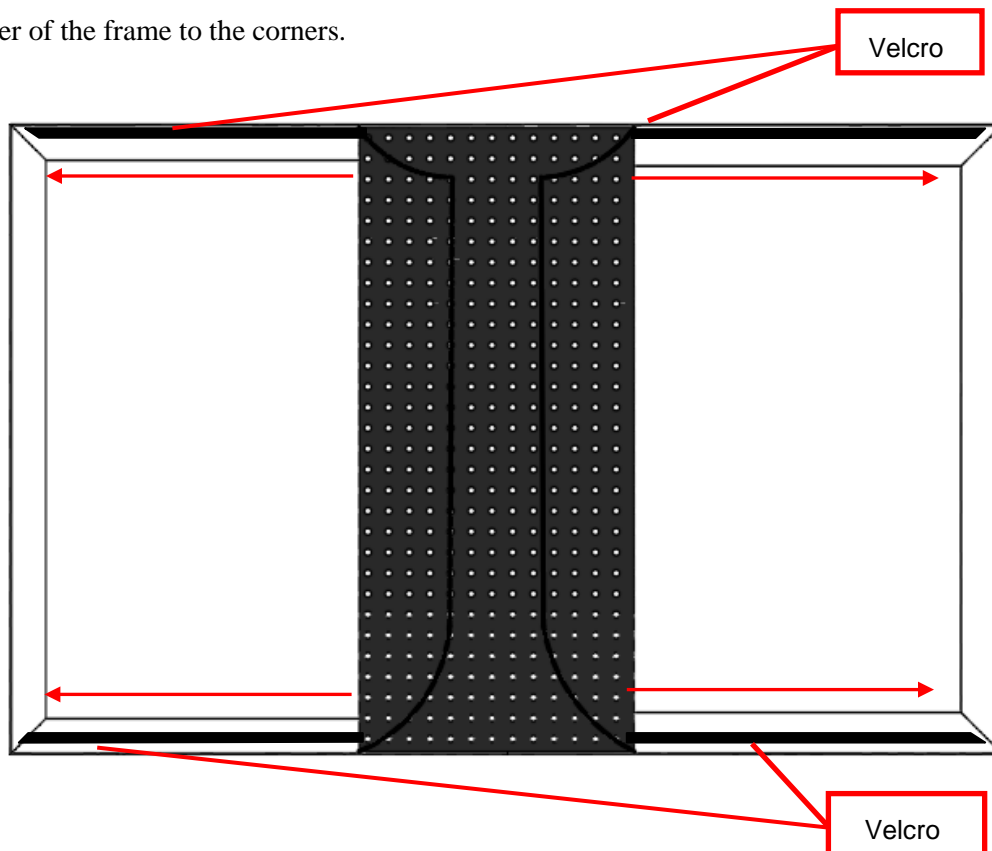
**Step 6:** Connect the *elbow joints (b)* to the top and bottom sections of the vertical frame. Once inserted, connect the vertical sections of the horizontal frame sections. Make sure all holes are in alignment and the frame pieces are flush (no gaps). They should form perfect right angles.



**Step 7:** Secure the elbow joints by fastening them with *M4x6 screws (c)*, 4 at each corner.

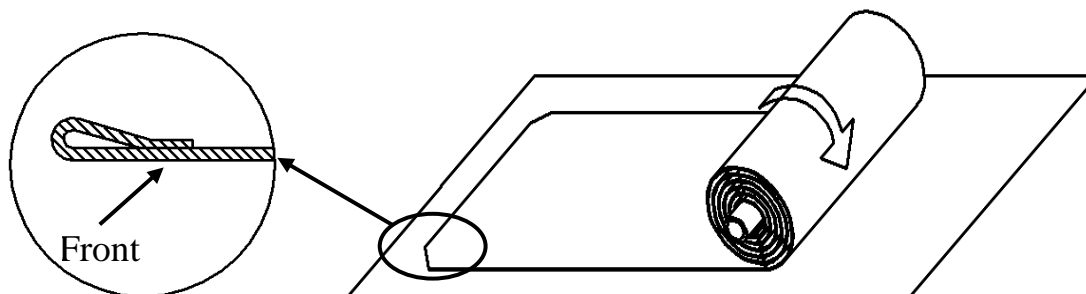


**Step 8:** Turn the frame over on its front side. Then attach the black backing cloth on the frame with the velcro from the center of the frame to the corners.

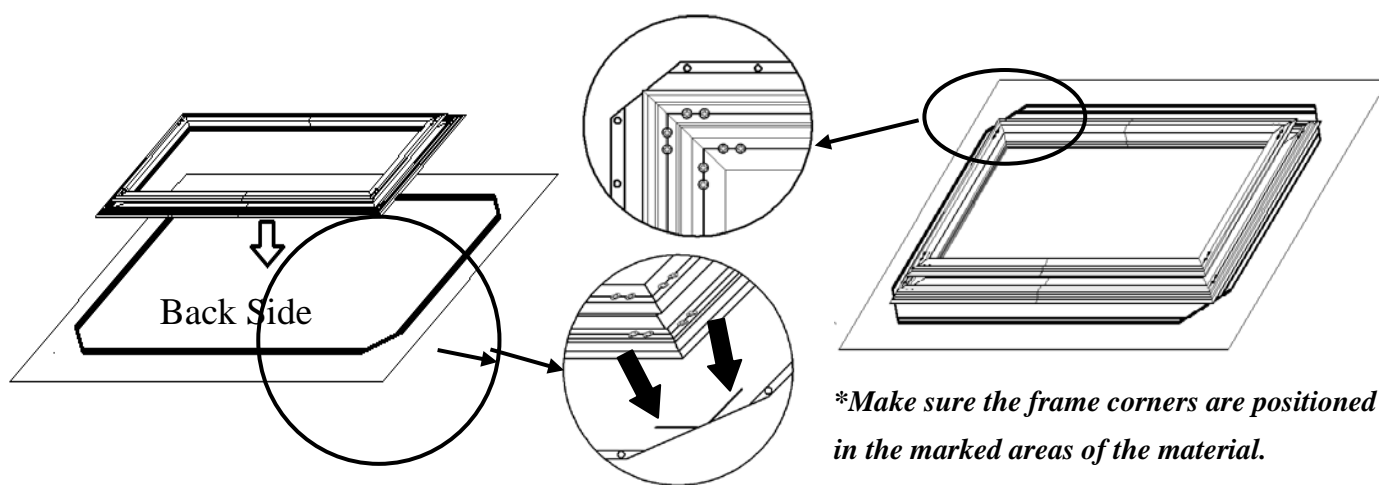


## Screen Material

**Step 9:** Put on the *white gloves* (m) and carefully unroll the screen material on a clean surface from the roller to the other side as shown below. The back side of the screen material should be placed upwards.



**Step 10:** Carefully and gently place the assembled frame front facing down 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.



**Step 11:** With one end of the spring and secure inside the groove of the frame, use the *spring hook* (d) to attach the spring to the hole located on the screen material's outer edge in the following order.

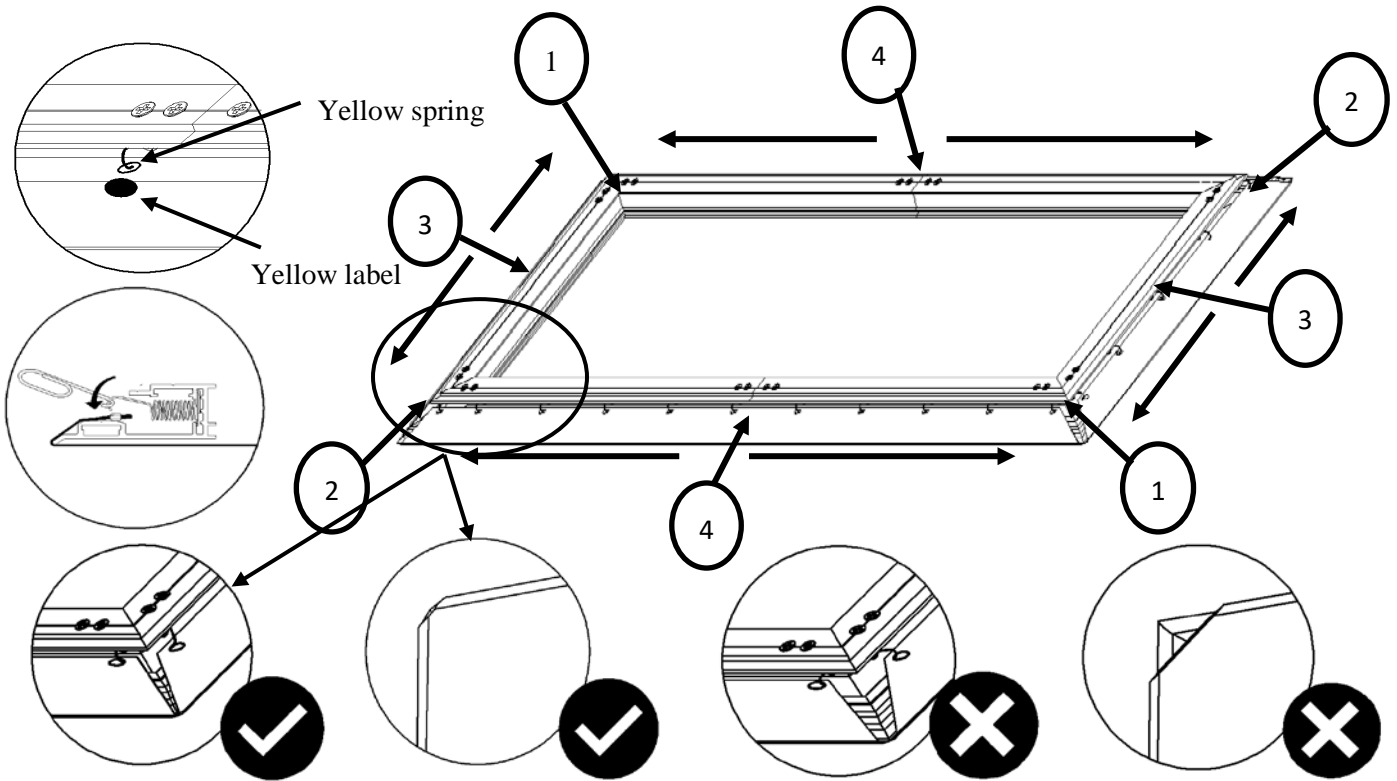
Attach the four corners of the diagonal first (1) or (2). After those are secure, connect the vertical portions of the material, begin in the center and move towards the corners in the same side (3). Lastly, connect the horizontal sections of the material by connecting the center of the material and make your way towards the corners in the same side (4).

### **Note (after all springs have been attached):**

**Correct material installation** –Corners of the screen material are properly wrapped around the corner edges of the frame and material is evenly tensioned and flat, creating a nicely taut surface.

**Incorrect material installation** –The corners of the screen material are not properly wrapped along the edge of the frame leaving the material with unbalanced tension and an uneven finish. To correct, detach springs from material at the corner(s) where material does not lie flat along the edge of the frame, reposition the material so that it lies flat and wraps along the edge of the frame, and reattach springs to the material.

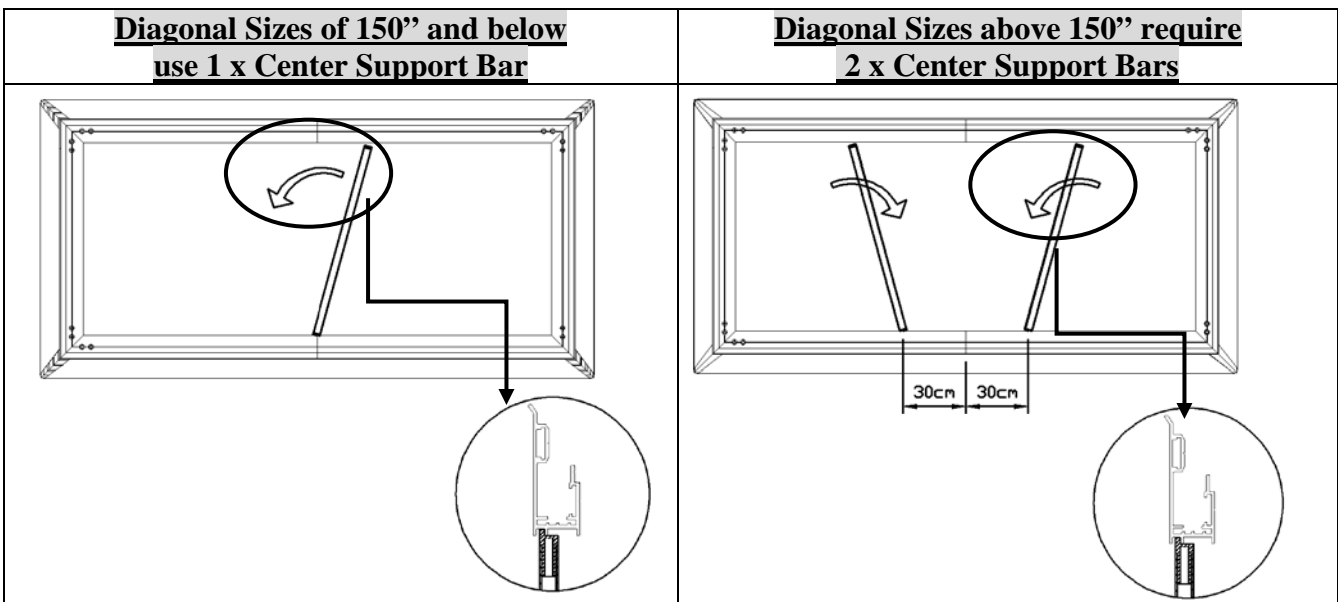
**Note:** Please make note of the yellow label and spring in the center of the frame. This is an indicator to start the screen material installation process from the middle area of the frame.



*To avoid ripples forming in the material it is imperative that all of the corners are properly wrapped around the edges as illustrated in the check mark diagrams.*

**Center Support Bar**

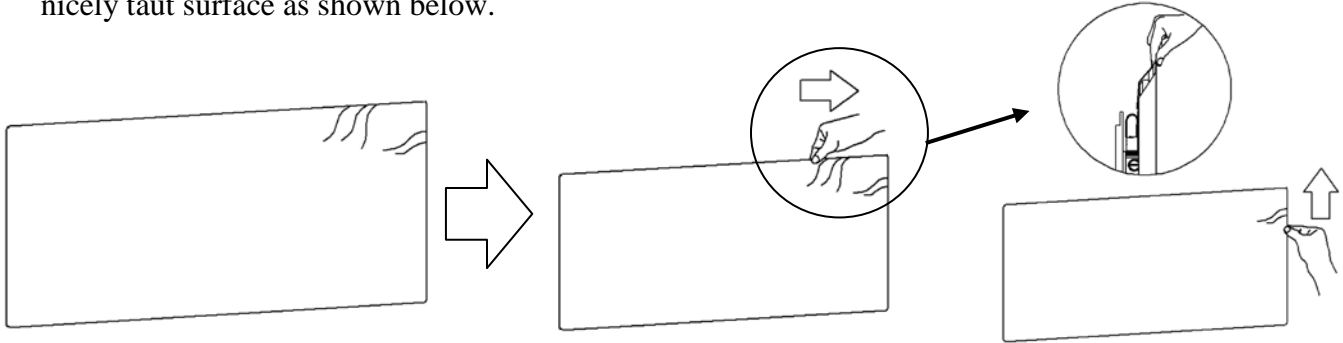
**Step 12:** Insert the *Center Support Bar (i)* into the upper top groove on the back of the frame with the bottom end near the approximate center point of the frame and rotate it in at an angle so that both ends of the bar are in alignment with the groove.



**Attention:** Do not proceed with the Edge Trim installation until making sure there are no ripples in the material.

### How to avoid getting ripples on the screen's material surface

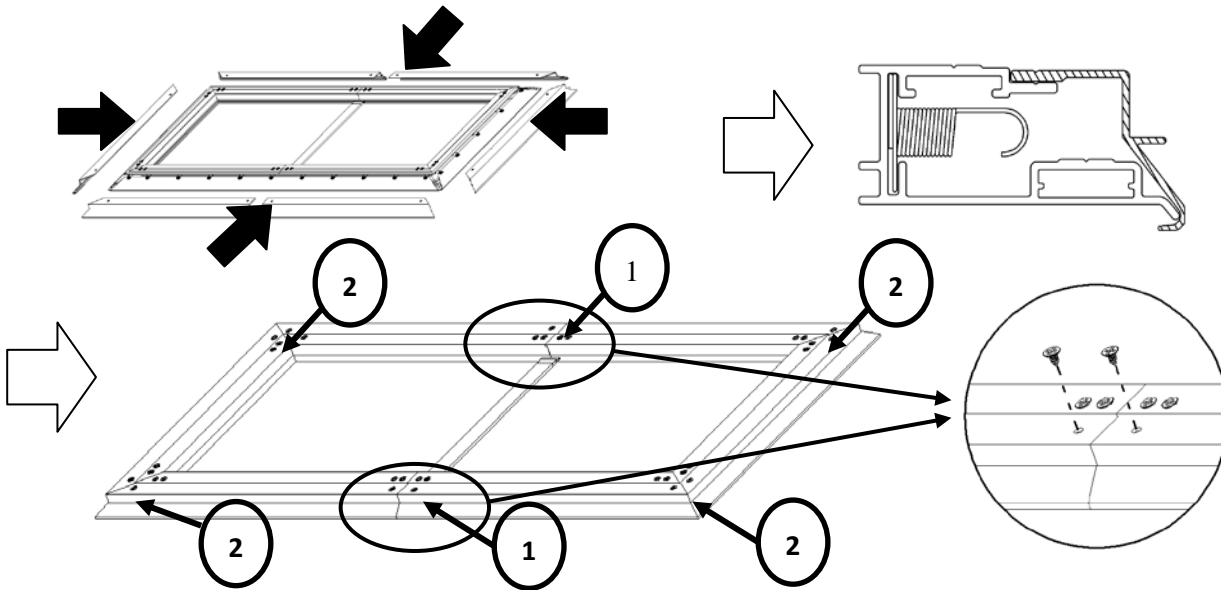
**Solution:** Pull and smooth out the material using your hand from the center to the corners, creating a nicely taut surface as shown below.



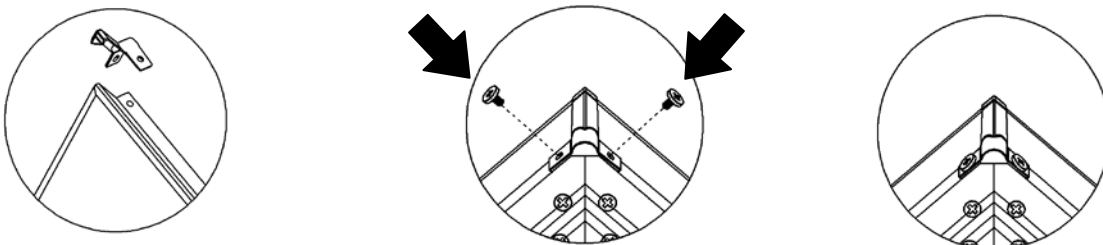
### Edge Trim Installation

**Step 13:** Place the *Edge Trim* over each end of the frame and secure with *M4x6screws (c)*.

Start with the center points first, then the rest of the corners as shown below.



**Step 14:** Install the *angle cover (j)* on each corner of the frame using the M4x7 screws.



## **Notice to Installer:**

**Please use the following installation instructions to obtain superior optical performance from the CineGrey 3D® AT ALR (Ambient Light Rejecting) Screen.**

**Make sure to follow these instructions in order for the CineGrey 3D® AT to perform correctly.**

- Angular-Reflective material is not compatible with ultra/short-throw projectors
- Minimum lens throw ratio 1.5x image width
- Ambient light must not come from the same direction as the projector

***Since angular-reflective means that the projected image will reflect at the mirror-opposite angle, it is important to position the projector so that the viewer will get the best possible image.***

**Step 1:** Establish the general “eye level” of the viewers

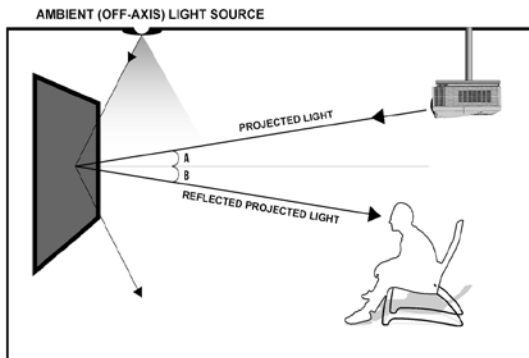
**Step 2:** Set the appropriate projection level

**Step 3:** Adjust the screen height level and projection angle

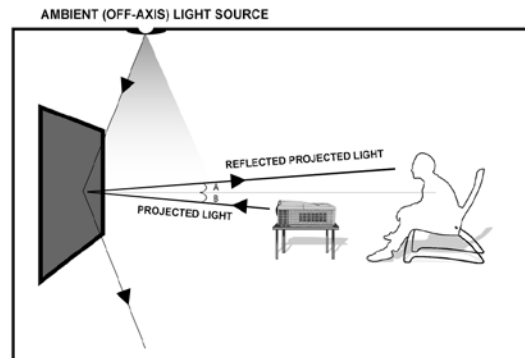
**Input Angle (A) = Output Angle (B) aligns with the viewer’s angle**

### **Correct Installation Examples**

**Projector Ceiling Installation:** Make sure the projector (*light in*) is angled (A) to reflect (B) at the mirror-opposite angle (*light out*) to align with the viewer’s eye level.

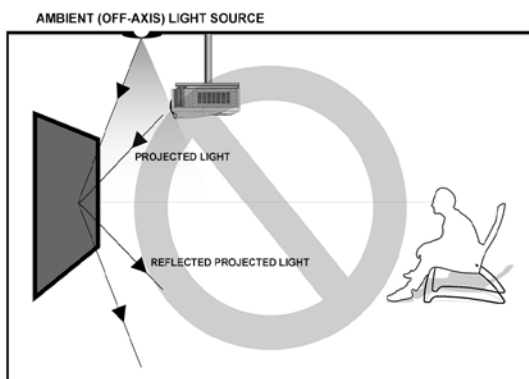


**Projector Table Top:** Make sure the projector (*light in*) is angled (A) to reflect (B) at the mirror-opposite angle (*light out*) to align with the viewer’s eye level.

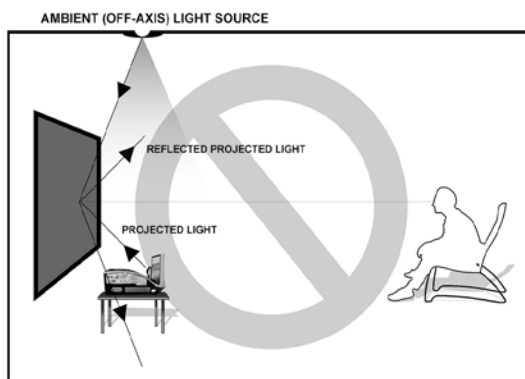


### **Incorrect Installation Examples**

**Ceiling Mounted Short-throw Projector**



**Tabletop Ultra-Short throw Projector**



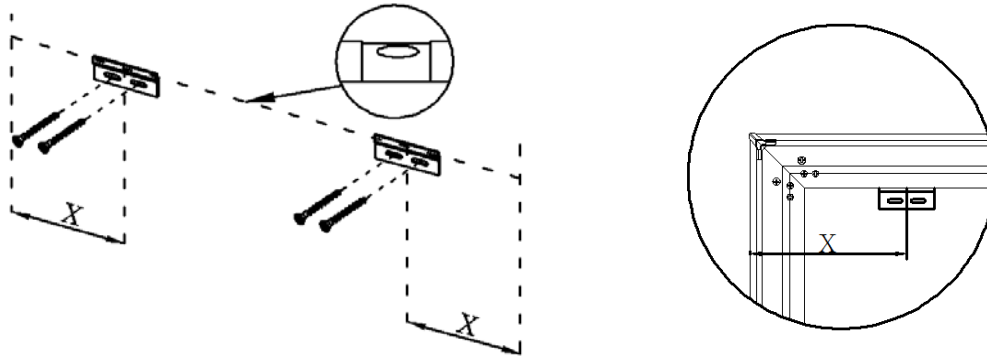
**Note:** Improper installation will result in light loss and produce a dark image. This is due to the projector’s light reflecting in the wrong direction.

***Images are not up to scale and are for illustration purposes only.***

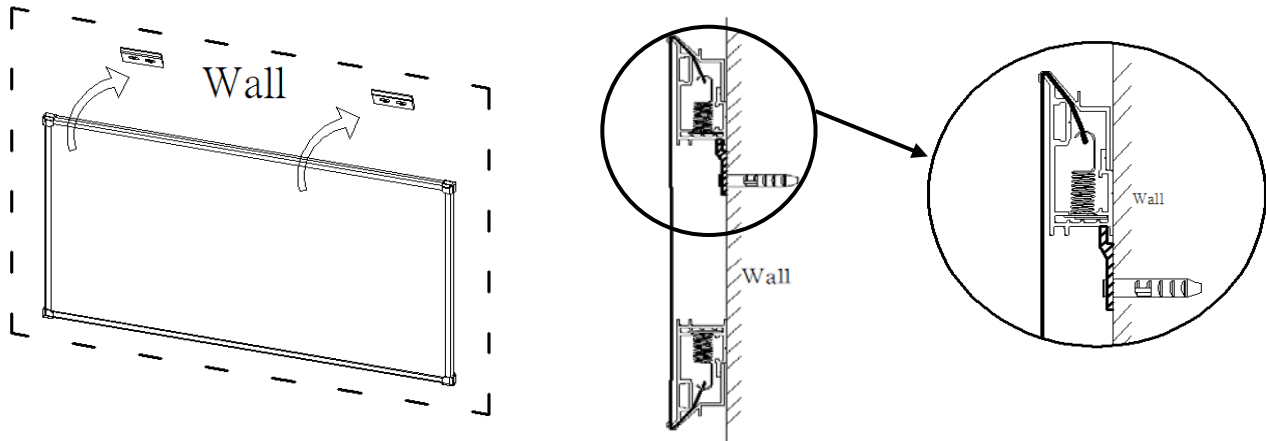


## Wall Installation

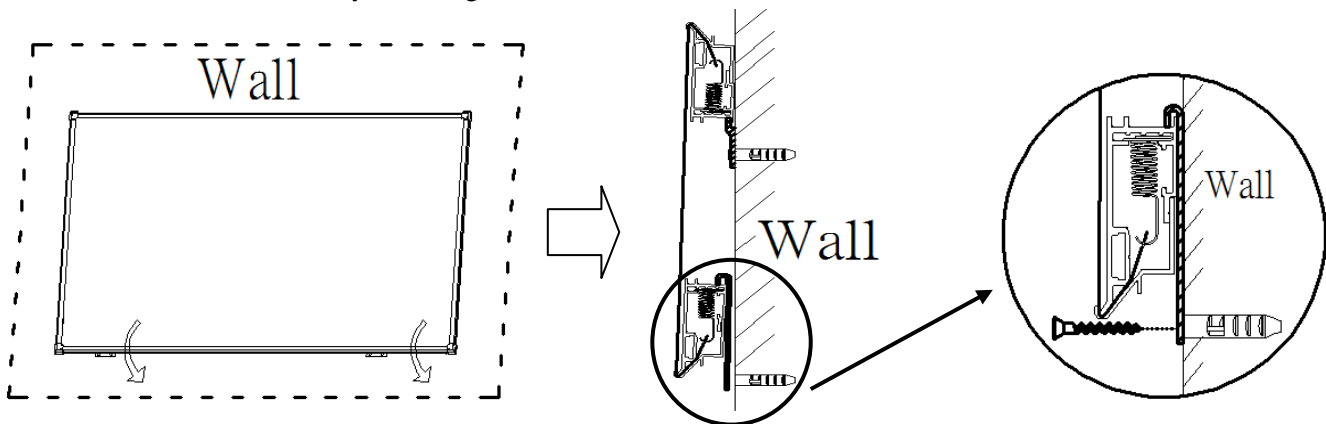
**Step 15:** Measure the overall length and height of the frame and drill holes for the top brackets. Line up the wall brackets with the drilled holes on the installation location and screw them in using a Phillips screwdriver. If not installing into a structural wood stud, use a hollow wall anchor then screw in the M5x50 wood screws with a screwdriver. Make sure the brackets are leveled.



**Step 16:** Position the fixed frame screen onto the top wall brackets as shown below and push down at the center of the top of the frame to secure.



**Step 16:** With the frame slightly tilted outward; connect the bottom brackets onto the bottom groove of the frame. Then secure them by screwing onto the wall



**For Technical Support or an Elite Screens contact in your area, visit**

[www.elitescreens.com](http://www.elitescreens.com)