ELITE SCREENS

Sable Frame Series

Fixed Frame Projection Screen

Featuring CineGrey 3D Ambient Light Rejecting Material

User's Guide

isf CERTIFIED

Congratulations on your new Sable Frame purchase! The screen material included is our *ISF certified* CineGrey 3D, which is a reference quality front projection material, precisely formulated for environments with minimal control of ambient lighting. It was designed to enhance picture brightness, offer accurate color fidelity, and improve contrast levels. The CineGrey 3D is best for family rooms, educational facilities, conference rooms or any applications in which ambient light is a factor.

In order for the CineGrey 3D to maintain its surface quality and optimal 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.
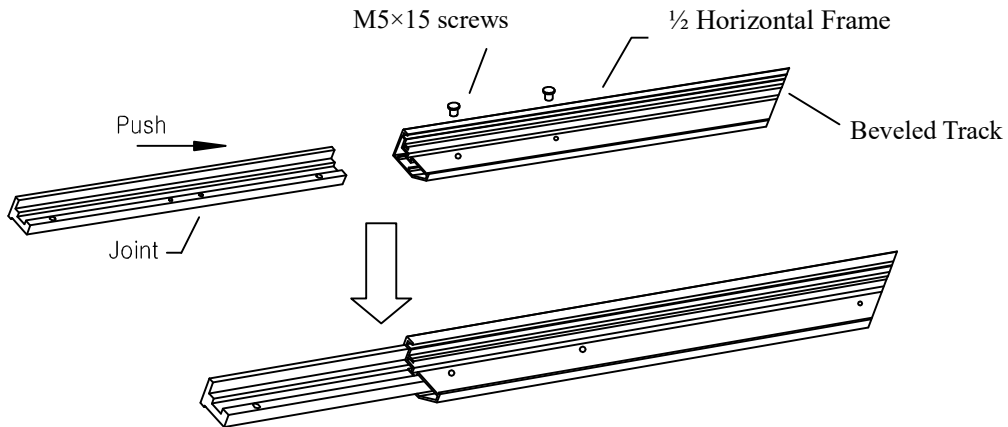
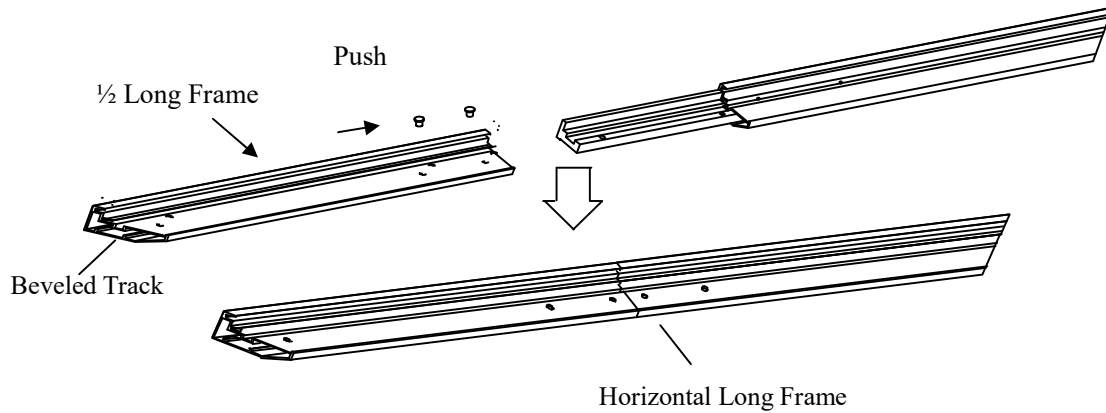| Hardware and Parts List	
1. Frame Parts x 6pcs (4 top/bottom horizontal frame pcs + 2 side vertical frame pcs)	7. M5x50 wood screws x 6 pcs
2.Tension Rods x 6pcs (4 top/bottom rods + 2 side rods)	8. Hollow wall anchor x 6 pcs
3. Screen Material x 1pc	9. M5x15 screws x 16 pcs
4. Center joints x 2pcs	10.Center Support Bar x 1 – 2 pcs (depending on model/size)
5. Elbow Joints x 4pcs	11. Support joiner x 2 – 4 pcs (depending on model/size)
6. Wall brackets x 2 – 3pcs (depending on model/size)	12. Fix Plates x 60 – 180 pcs (depending on model/size)

Note: Please make sure all parts are included in your package before assembling the fixed frame screen.

FRAME ASSEMBLY

1. Insert the **center joint** connector into to one of the 1/2 horizontal frames and fasten it with two **M5x15 screws**.
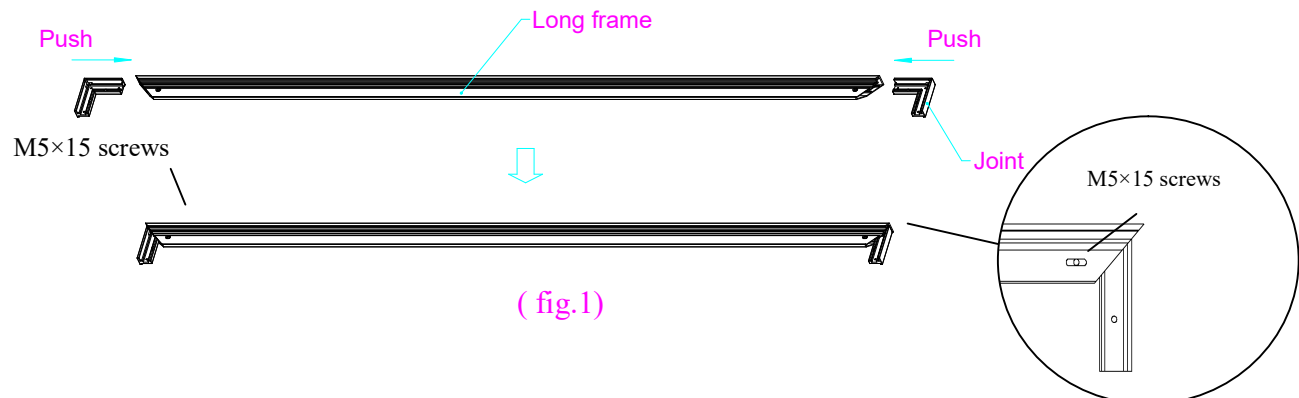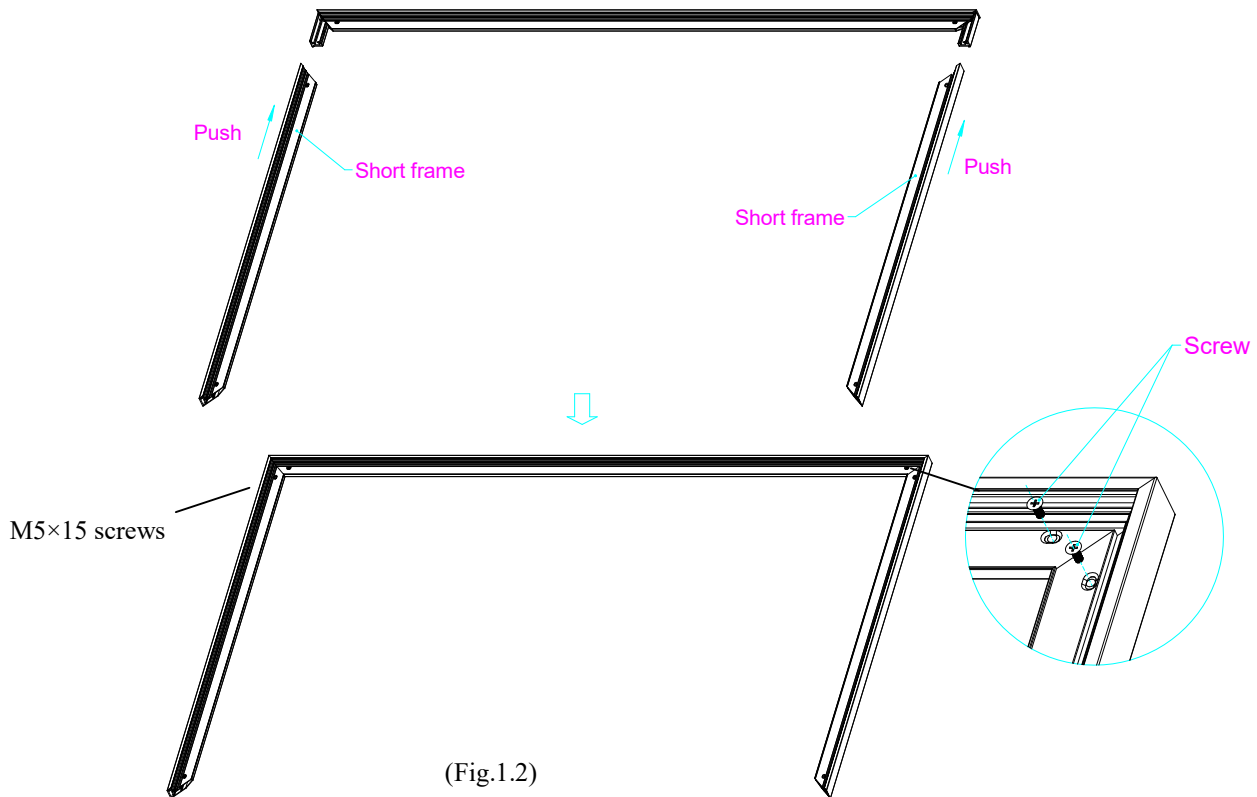
M5×15 screws   ½ Horizontal Frame

Push

Beveled Track

Joint

2. Insert the other 1/2 horizontal frame piece to the **center joint** connector and fasten it with two **M5x15 screws**. Repeat steps 1 and 2 for assembling the second horizontal frame.

Push

½ Long Frame

Beveled Track

Horizontal Long Frame

Note: Do not tighten the screws completely until all frame pieces have been properly aligned.
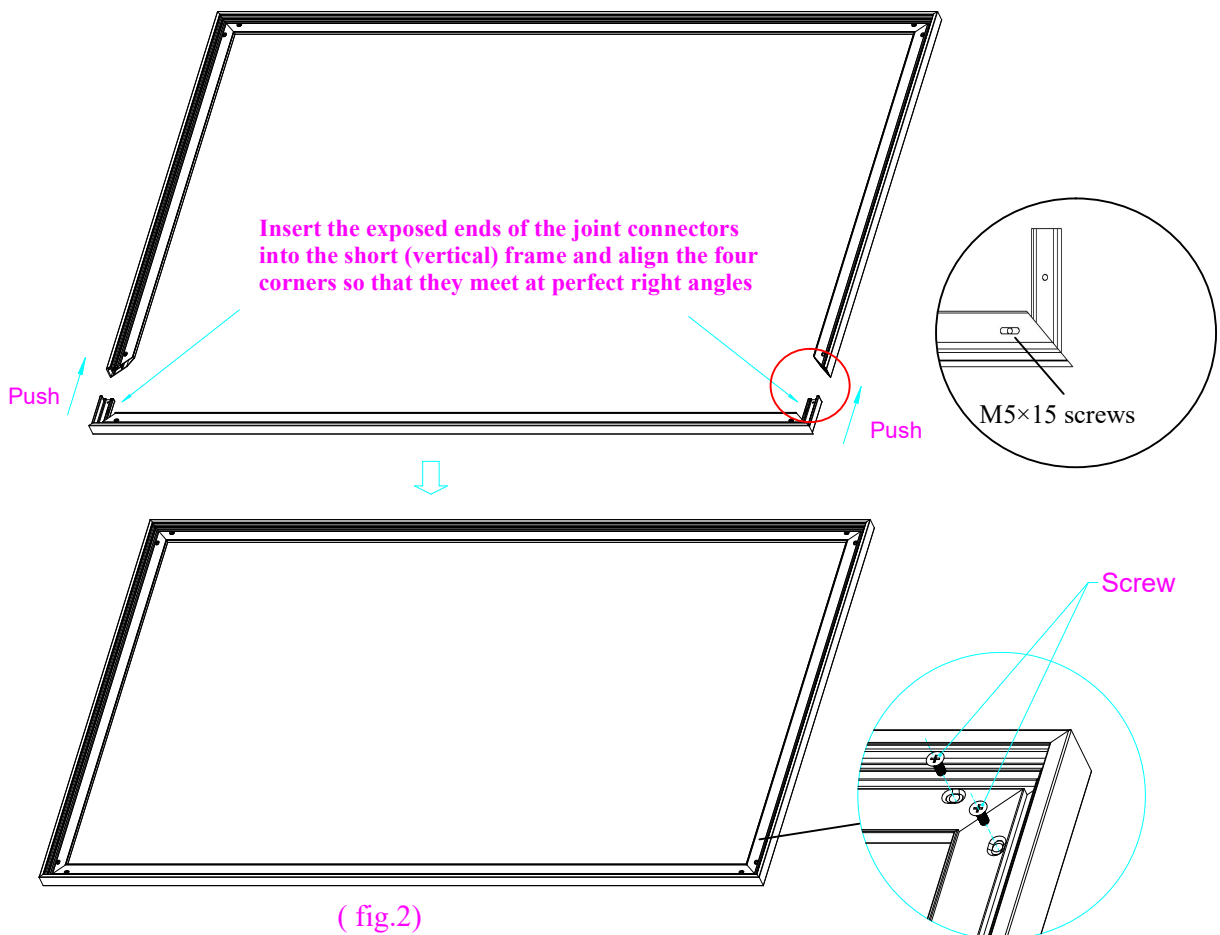
3. Insert both **elbow joint** connectors into the long horizontal frame and then fasten it with two **M5x15 screws** (see Fig.1). Then insert the vertical short frames and fasten them with screws (Fig.1.2)

Push   Long frame   Push

M5×15 screws   Joint

M5×15 screws

(fig.1)

Push

Short frame

Push

Short frame

Screw

M5×15 screws

(Fig.1.2)

4. Join all four frame parts together following the steps shown below. **(Fig.2)**
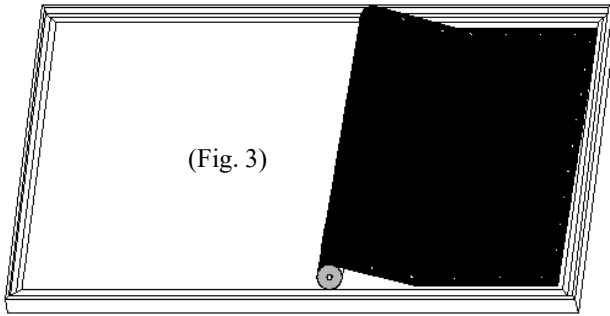**Note: When assembling, please push simultaneously both ends of the long frames.**

Insert the exposed ends of the joint connectors into the short (vertical) frame and align the four corners so that they meet at perfect right angles

Push

Push

M5×15 screws

Screw

(fig.2)

Attaching the screen material to the frame

1. Make sure the area where the screen material and frame will be placed is a clean, dry, and non-abrasive surface.
2. Carefully unroll the material inside the frame. (Fig.3)

    Please note the material will be noticeably smaller than the frame, as the material must be stretched to create a sufficient amount of tension for perfect material flatness.
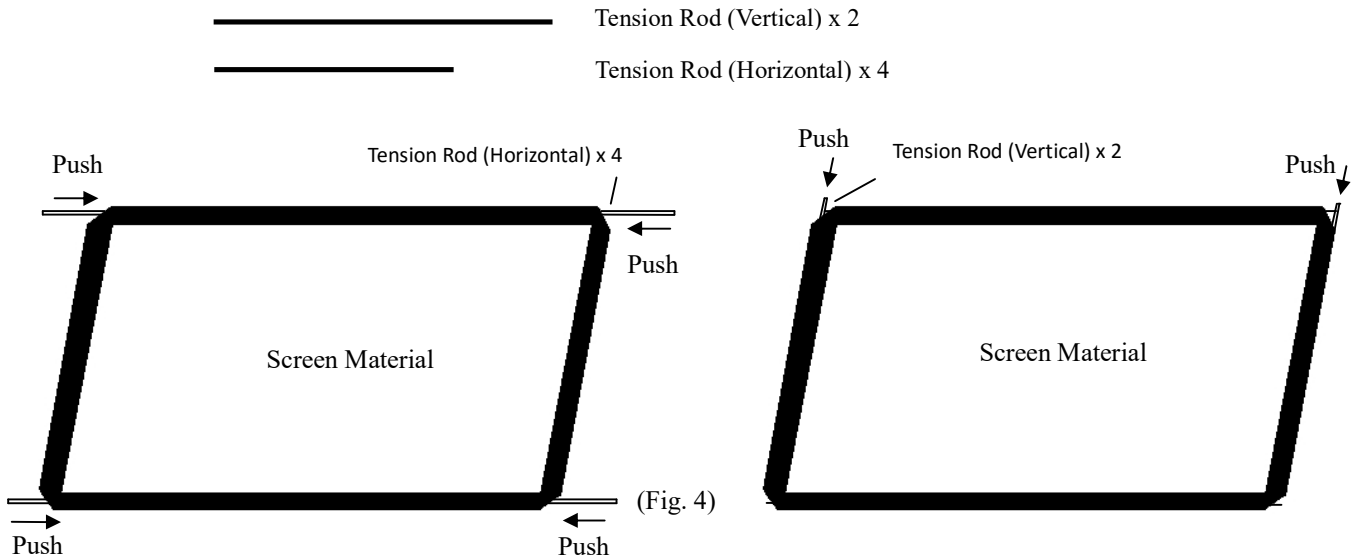

(Fig. 3)

Notes

- Make note of the label that distinguishes the backside from the front side.
- Unroll the screen material so that the front of the material is facing down.
- Keep the edges of the screen material close to the frame's inner border while ensuring the material remains at a safe distance from frame so that the frame does not scratch the material.
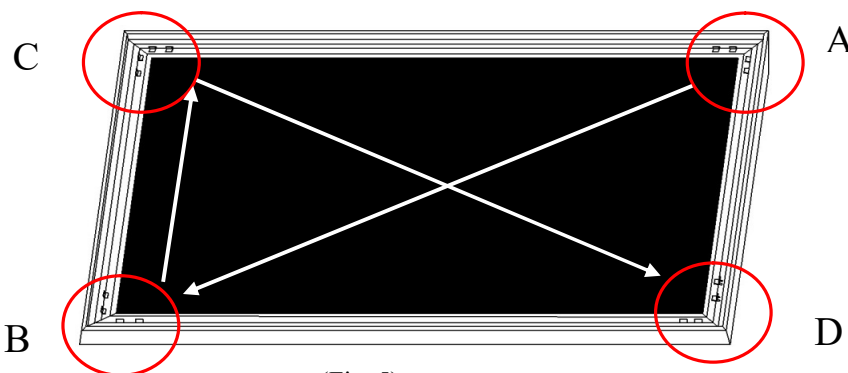
3. Insert the tension rods separately into the edges of all four corners of the material **(see Fig.4)**
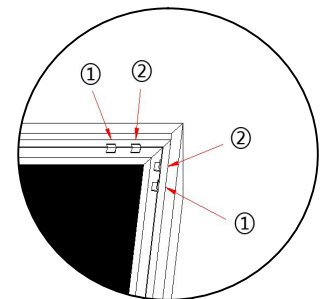
———————————————— Tension Rod (Vertical) x 2

———————— Tension Rod (Horizontal) x 4

Push
Tension Rod (Horizontal) x 4
Screen Material
Push

Push
Tension Rod (Vertical) x 2
Push
Screen Material

(Fig. 4)

Push
Push

ATTENTION: We recommend two people assemble the screen in a room temperature between 70° - 80° F.

(1) Begin by securing the four corners in the following sequence A→B→C→D (Fig.5)**.**
(2) Insert the fix the plates as shown on Fig. 6. Fix plate ① is about 10cm away from the frame's corner. Fix plate ② is about 5cm away. (Fig.6).
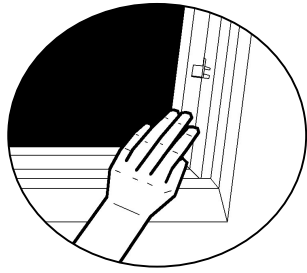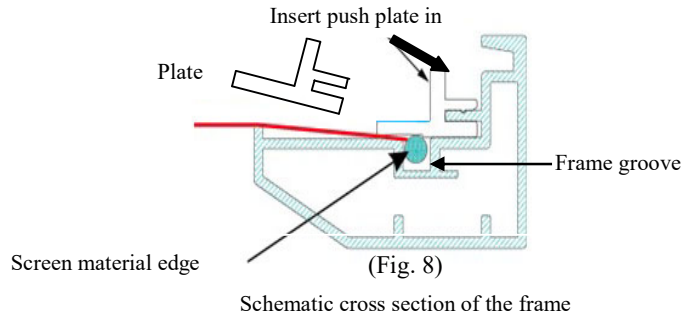

C

A

B

D

(Fig. 5)

① ②
②
①

(Fig. 6)

(3) Stretch the material to the corner and insert the screen material's edge into the groove of the frame. While one hand holds the material in place, the other hand snaps in the push plate (Fig.7-Fig.8)

(Fig. 7)

Insert push plate in

Plate

Frame groove
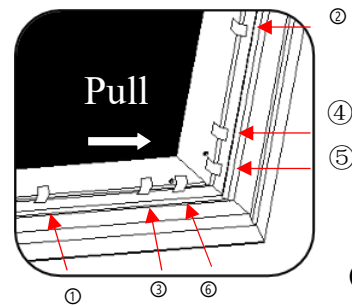
Screen material edge

(Fig. 8)

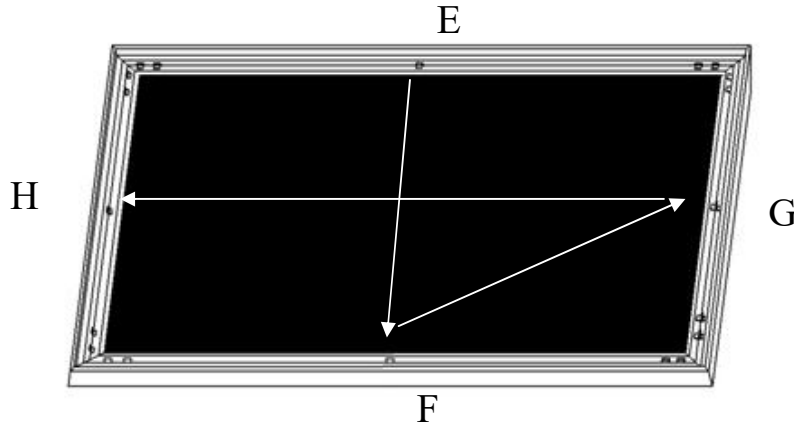Schematic cross section of the frame

Tip for attaching the last corner (D):

1. Position yourself to the left ①.

2. Pull the material to the corner of the frame with your right hand while your left hand snaps in the fix plate on location ① (the third red dot).

3. Then insert and snap in the fix plate on location② as same methods.

4. Next, move and position yourself on location ③, then pull the edge to the frame and fasten plates on locations③ and ④.

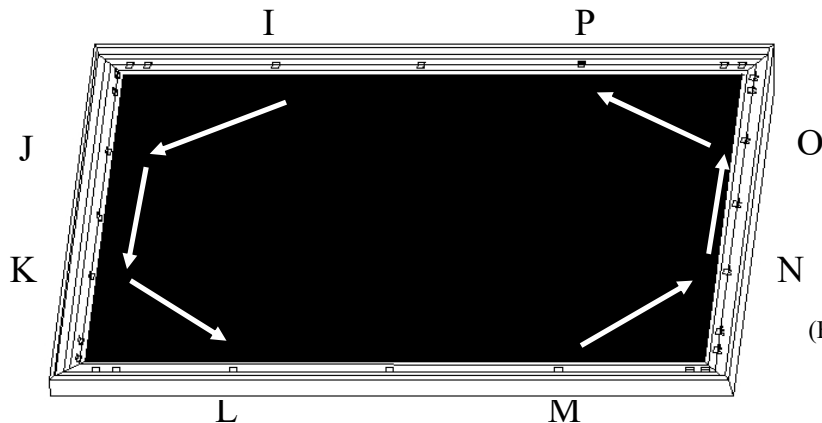5. Finally, fasten the last fix plate on location ⑤ and location ⑥. (Fig.9)

Pull

②

④

⑤

①   ③   ⑥

(Fig. 9)

(4) Place a fix plate in the center of each side in the following order E→F→G→H.(Fig.10)
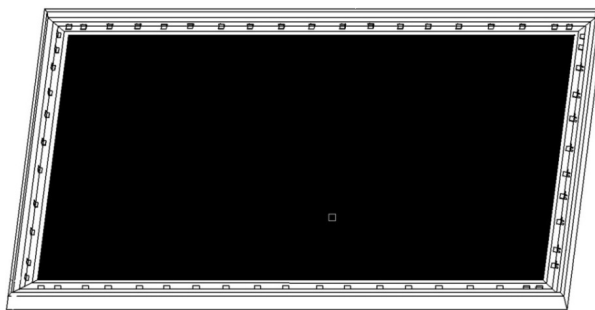
E

H

G

(Fig.10)

F

(5) Next, fasten a fix plate in between (centered) the fix plates that were inserted in the previous step. The fix plates should be inserted in the following order: I→J→K→L→M→N→O→P as shown in Fig.11.

I   P

J   O

K   N

(Fig.11)

L   M

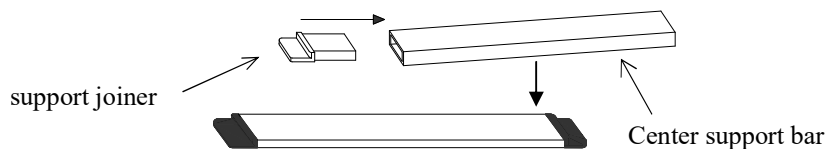(6) Fasten the remainder of the fix plates in the empty locations in the red markings to complete attaching the screen material. (Fig.12)

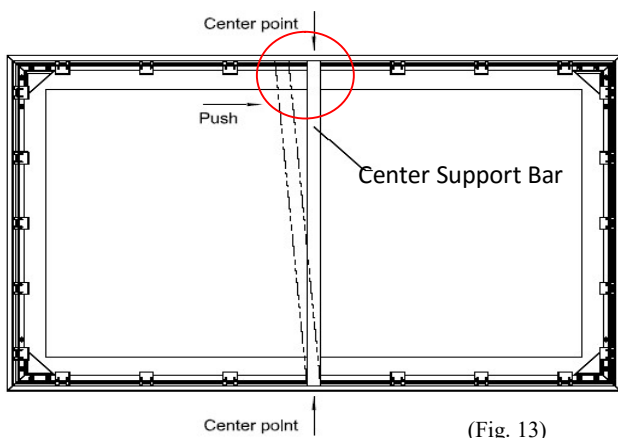(Fig.12)

Center Support Bar

1. Insert the **support joiner** into each end of the center support bar to complete assembly.
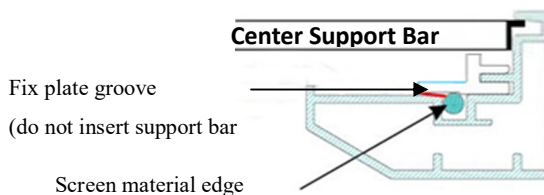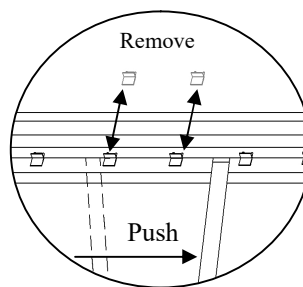

support joiner

Center support bar

2. Insert the **Center Support Bar** into the upper top groove on the back of the frame **(not the one where the fix plate inserts)** 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 **(see Fig. 13 below for details).**
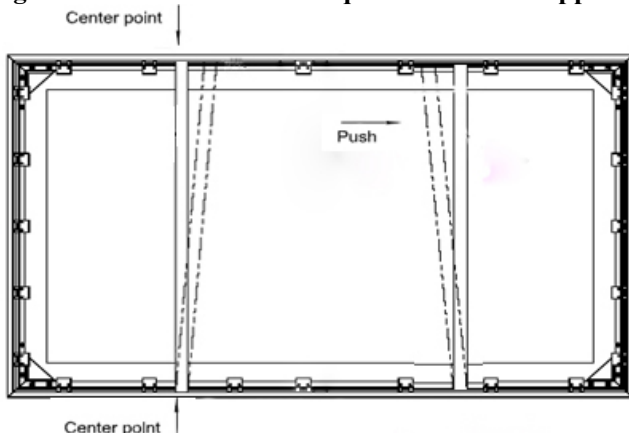
Diagonal models 135" and below use 1 Center Support Bar

Center point

Push

Center Support Bar

Center point

(Fig. 13)

Remove

Push

Center Support Bar

Fix plate groove

(do not insert support bar

Screen material edge

Diagonal models above 135" require 2x Center Support Bars

Center point

Push

Center point

This will provide added stability to your frame and added tension to the material.

3. Slide the top end of the bar into the top center point of the frame to complete the center support bar installation.

Notice to Installer:

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

Make sure to follow these instructions in order for the CineGrey 3D 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.
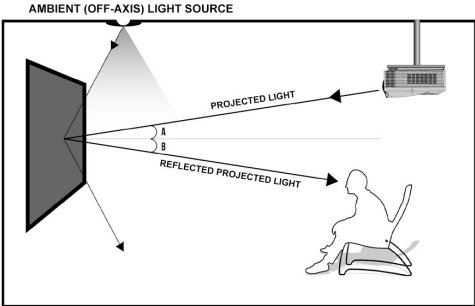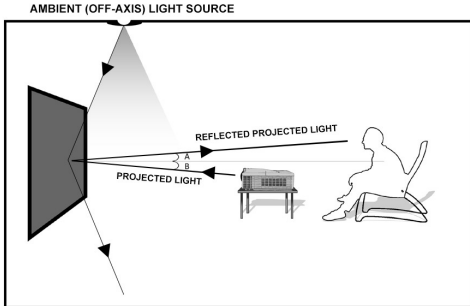
Step 1: Establish the general "eye level" of the viewers
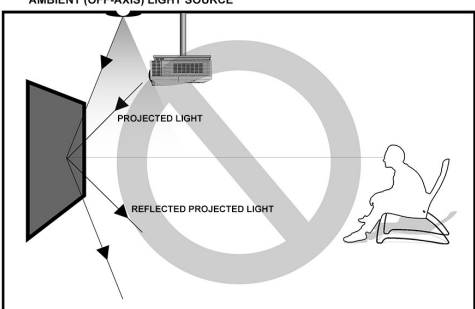
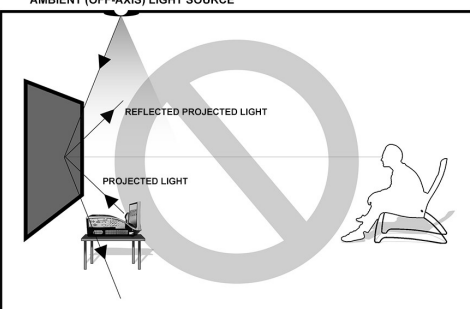*Step 2:* Set the appropriate projection level

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
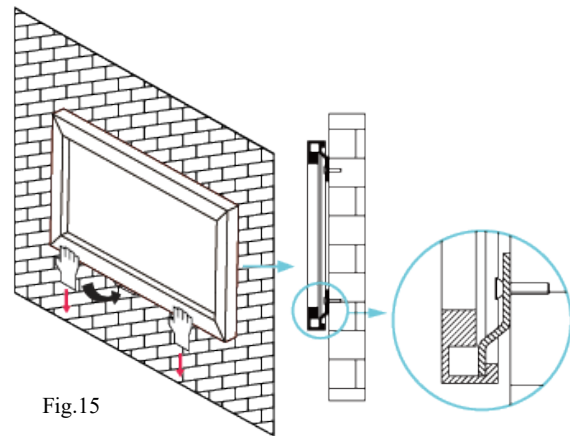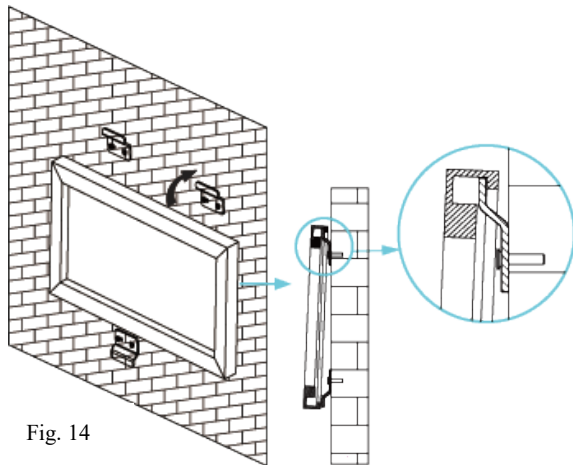
Tabletop Ultra-Short throw Projector

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.

Installation

1. Locate your desired installation location with a stud finder (recommended) and mark the drill-hole area of where the screen is to be installed.
2. Drill a hole with the proper bit size according to the wood screws included.
3. Line up the wall brackets with the drilled holes on the installation location and screw them in using a Phillips screwdriver.
   Note: Use 2 top wall brackets on diagonal sizes below 135", and use 3 top wall brackets on diagonal sizes 135" and above.
4. Position the fixed frame screen onto the top wall brackets as shown in **(Fig. 14)** and push down at the center of the bottom frame to secure the installation.
5. The design of the wall brackets allows the frame to slide over them through its sides. This is an important feature of the installation design as it allows your screen to be properly centered.
6. Using both hands finish the installation by pushing the lower portion of the fixed frame screen into the lower bracket as shown in **Fig 15**.

Fig. 14

Fig.15

CAUTION

Please follow these instructions carefully to ensure proper maintenance and safety of your Fixed Frame Screen

1. When hanging the screen up, please make sure that no other objects such as power switches, outlets, furniture, ladders, windows, etc. occupy the space designated for your Fixed-Frame screen.
2. Regardless if the screen is hung on or installed into the wall, make sure that the proper mounting anchors are used and that the weight is supported appropriately by a strong and structurally sound surface just as any large and heavy picture frame should. *(Please consult a home improvement specialist for the best advice on installation)*
3. Frame parts are made of high quality velour-surfaced aluminum and should be handled with care.
4. When not in use, cover over the screen with a furniture sheet to protect it from dirt, grime, paint or any other impurities.
5. Spare Parts should be placed out of reach of small children in accordance with household safety guidelines.

For a local Elite Screens contact or Technical Support, please visit

www.elitescreens.com