ezFrame Plus Series

Section 1: Screen Design

1.1 What is it?

The *ezFrame Plus* series is our newest fixed frame projection screen line designed for applications requiring large presentations.

1.2 How does it work?

The *ezFrame Plus* uses Elite's *CineWhite®* tensioned material within a velveteen coated frame. The 1.1 gain material is also 4K Ultra HD and active 3D ready.

Section 2: Product Features

2.1 Characteristics

Screen Material
- CineWhite® (matte white) tensioned front projection material
- 1.1 Gain with black backing
- 180° wide viewing angle
- Active 3D, 4K Ultra HD, and HDR Ready
- Available in the following diagonal sizes:
    - 273", 300" and 320" in 4:3 format
    - 200", 250", 300", 345" and 390" in 16:9 format

Design and Installation
- Anodized black aluminum 3.5" thick frame with black velour surface
- Sliding wall brackets allow easy flush wall mounting on wood studs or any other secure installation point
- Ideal for Stadiums, House of Worship, Auditoriums, Concert Halls, etc.

*Quality and Reliability*
- 5-year manufacturer's warranty

2.2 Model Numbers

Model Number	Nominal Diagonal	Aspect Ratio	Viewing Height (in)	Viewing Width (in)	Screen Material	Gain	Case Color	N.W. (lbs)	G.W. (lbs)	Packaging Dimensions (LxWxH)
R273WV1 Plus	273"	4:3	163.8	218.4	CineWhite®	1.1	Black	112.7	140.5	175.2"x5.9"x12.6"
R300WV1 Plus	300"	4:3	180.0	240.0	CineWhite®	1.1	Black	125.1	141.8	191.2"x5.9"x12.6"
R320WV1 Plus	320"	4:3	192.0	256.0	CineWhite®	1.1	Black	159.0	184.3	205.1"x6.3"x15.8"
R200WH1 Plus	200"	16:9	98.0	174.4	CineWhite®	1.1	Black	57.4	75.4	119.3"x5.1"x12.2"
R250WH1 Plus	250"	16:9	122.6	217.9	CineWhite®	1.1	Black	83.3	106.5	135.0"x6.3"x15.7"
R300WH1 Plus	300"	16:9	147.1	261.5	CineWhite®	1.1	Black	120.3	140.1	159.4"x6.3"x15.7"
R345WH1 Plus	345"	16:9	169.2	300.7	CineWhite®	1.1	Black	138.0	163.8	182.1"x6.3"x18.1"
R390WH1 Plus	390"	16:9	191.2	339.9	CineWhite®	1.1	Black	160.6	191.5	201.1"x6.5"x18.1"

Section 3: Screen Material Specifications

3.1 Characteristics

CineWhite® (Tension Matte White) has broad light dispersion through diffusion uniformity, black & white contrast and true color rendition making it the most versatile in Elite's tensions screen product lines. This tension PVC surface is the best choice for today's high-contrast ratio projectors in commercial or residential presentations. The CineWhite® material equals the performance to our MaxWhite® product, but improves the experience with the superior surface flatness. Uniform diffusion surface has black-backing to eliminate light penetration and is easily washable with mild soap and water.
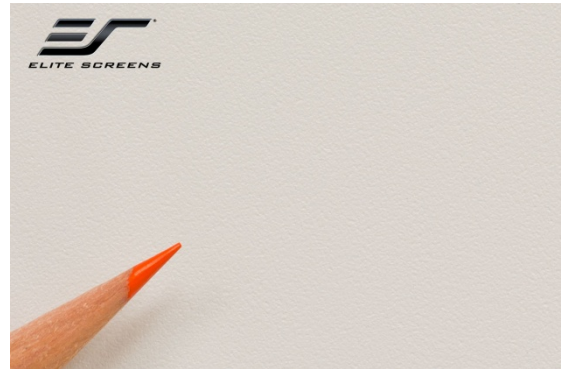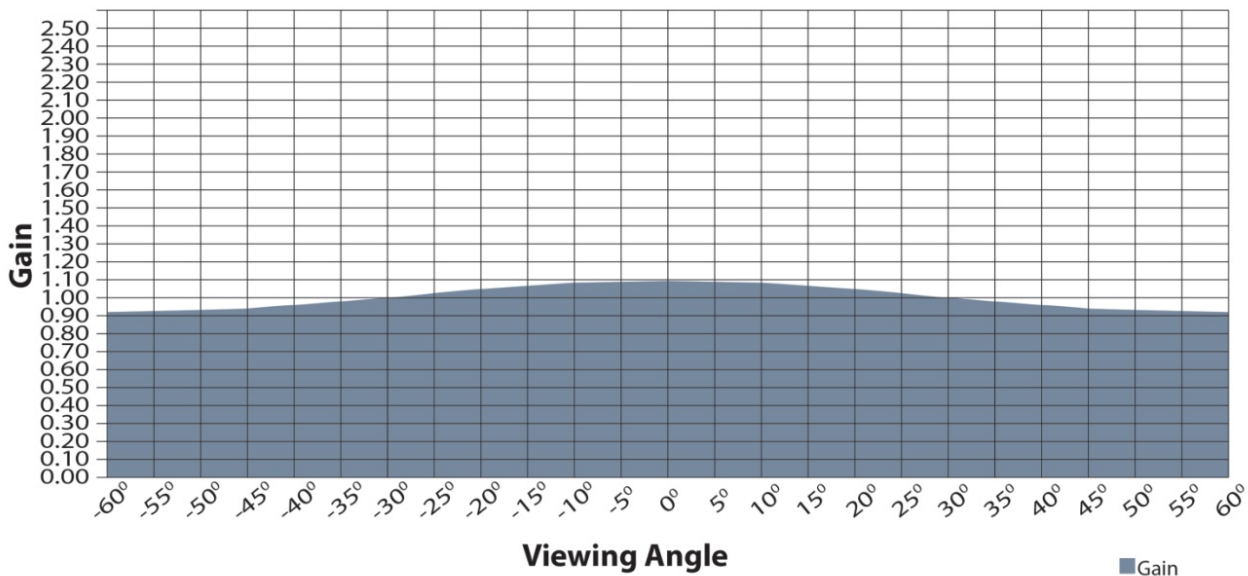
Features & Benefits

- Multi-layer PVC (Polyvinyl chloride) with texture and surface coating
- Gain: 1.1
- View Angle: 180° (90° ±LR)
- Full Lambertian Diffuser- no half gain drop
- Produces exceptional picture quality for any presentation
- Mildew Resistant
- Active 3D, 4K Ultra HD, and HDR ready
- Surface can be cleaned with (water) moist cotton cloth

Specifications	
Thickness	0.27 mm (0.011")
Weight	350 g/m²
Maximum Height	3.2 M (10 ft)
On-axis Gain	1.1
Half-Gain Angle	Does not reach half gain

3.2 Gain and Viewing Angle

On axis 0⁰ Gain: 1.1
Viewing Cone: 180⁰

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Section 4: Execution

4.1 Hardware and Parts List

|	
1. Frame Parts x 6 pcs (4 top/bottom horizontal frame pcs + 2 side vertical frame pcs)	7. M5x50 wood screws x 8-20 pcs
2. Tension Rods x 6 pcs (4 top/bottom rods + 2 side rods)	8. Hollow wall anchor x 8-20 pcs
3. Screen Material x 1 pc	9. M5x15 screws x 16-20 pcs
4. Center joints x 2 pcs	10. Center Support Bar x 2-4 pcs (depending on model/size)
5. Elbow Joints x4pcs	11. Fix Plates x 80-150 pcs (depending on model/size)
6. Wall brackets x4-10 pcs (depending on model/size)	

Note: Please make sure all parts are included in your package before proceeding to assemble your EliteProAV fixed frame projection screen.

4.2 Frame Assembly

1. Insert the **center joint** connector into to one of the 1/2 horizontal frames and fasten it with two **M5x15 screws**.

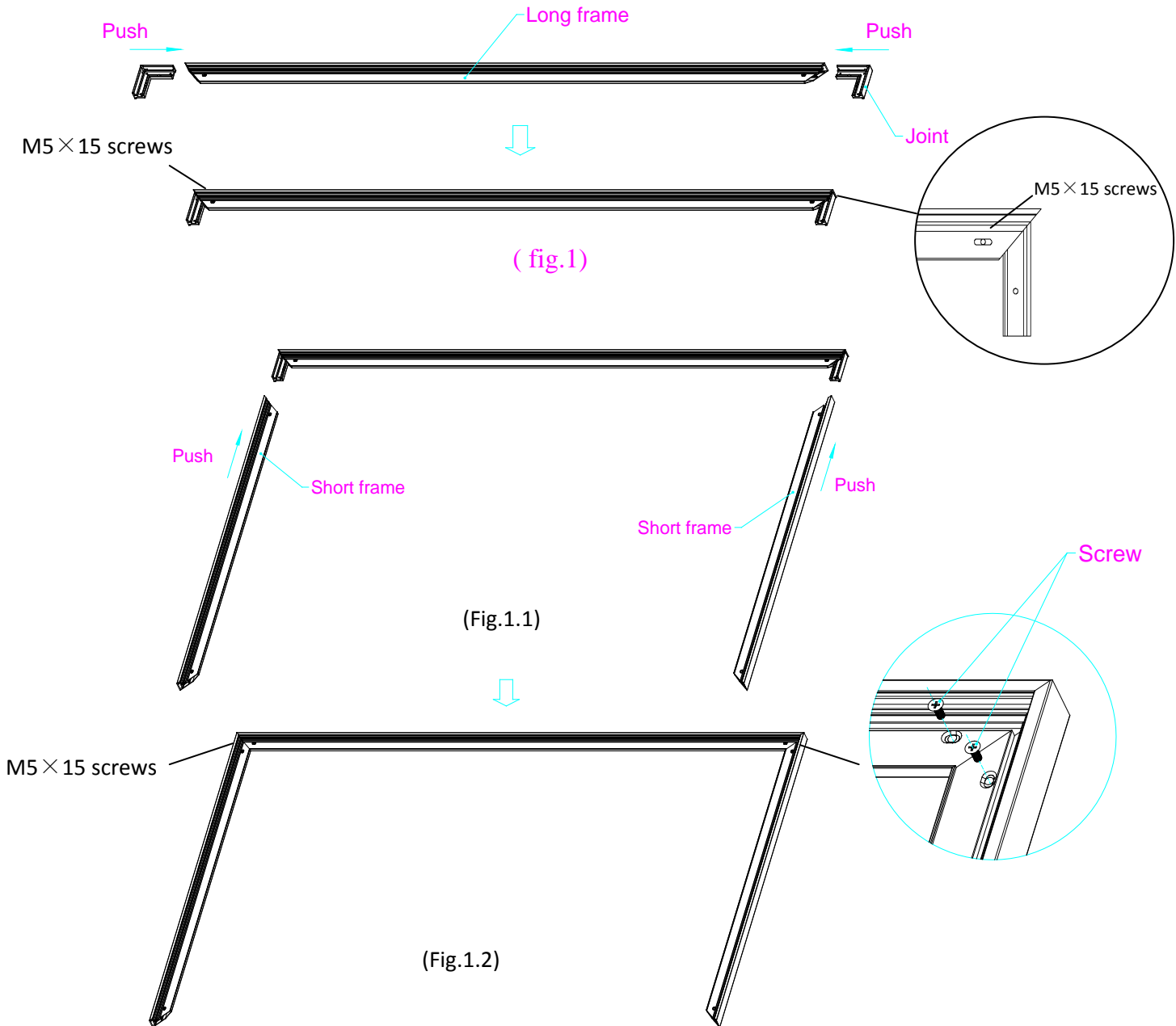M5×15 screws   ½ Horizontal Frame

Push

Joint

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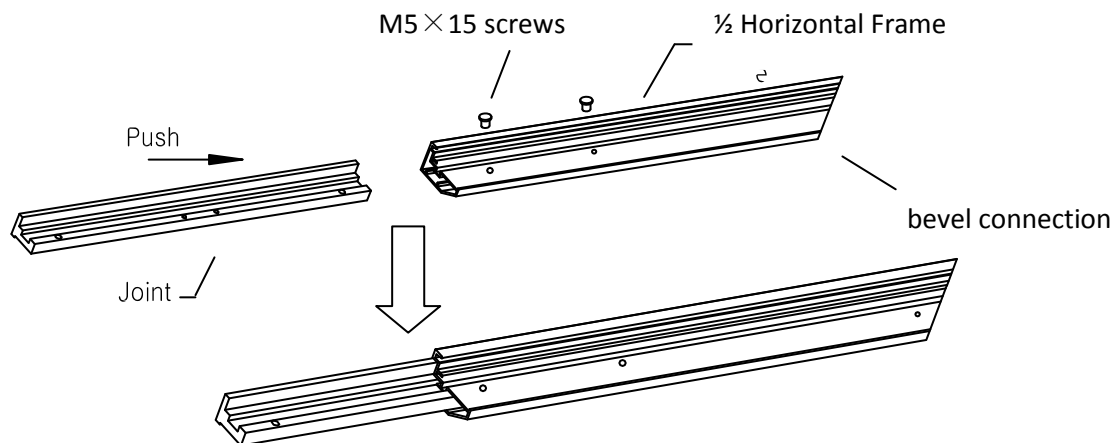
2. Insert the other 1/2 horizontal frame piece to the **center joint** connector and fasten it with two **M5x15 screws**. Repeat steps 1 and 2 for assembling the second horizontal frame.

½ Long Frame   Push

bevel connection

Horizontal Long Frame

3

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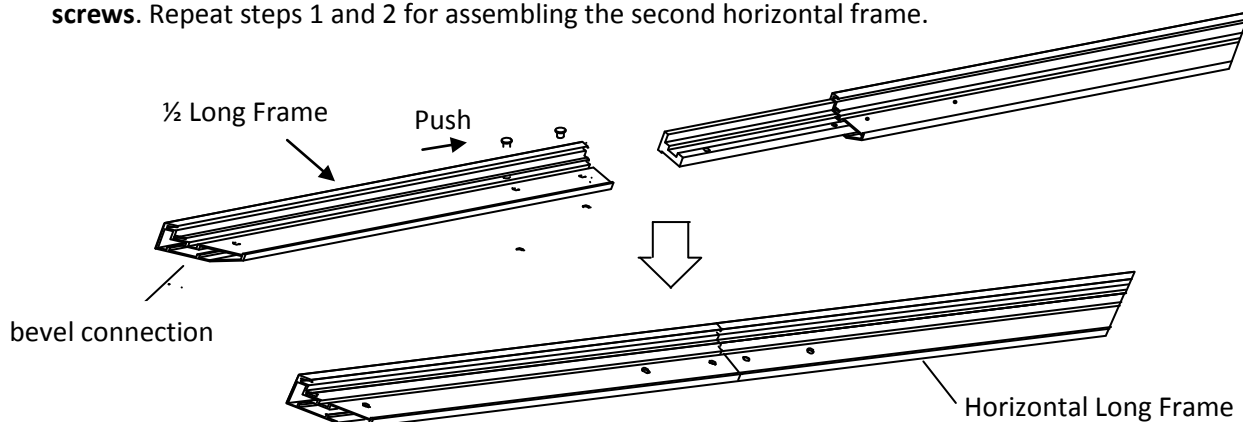
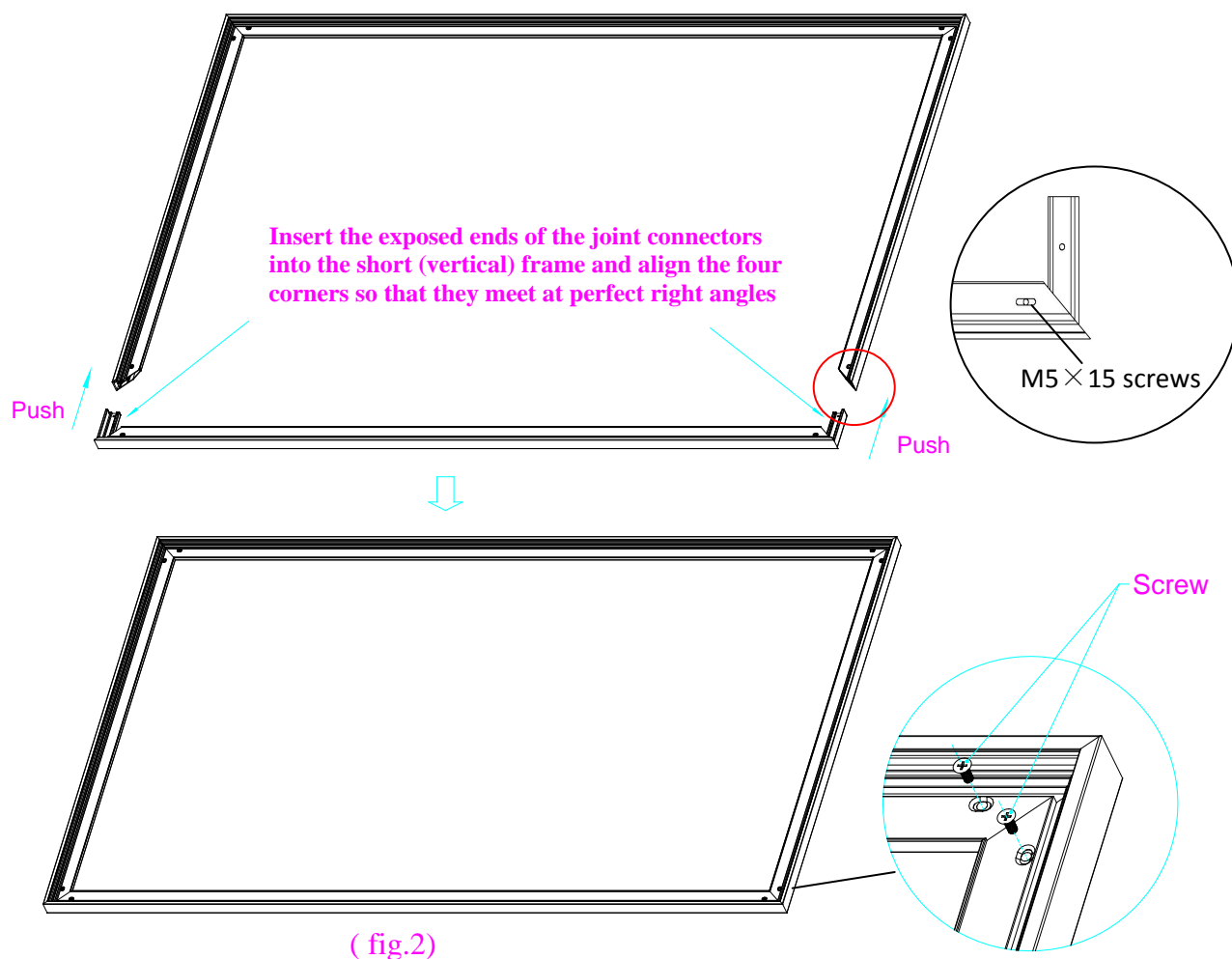**Note:**   **a. 2 long frames should be assembled for a screen.**
          b. Do not tighten the screws completely until all frame pieces have been assembled correctly.

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)
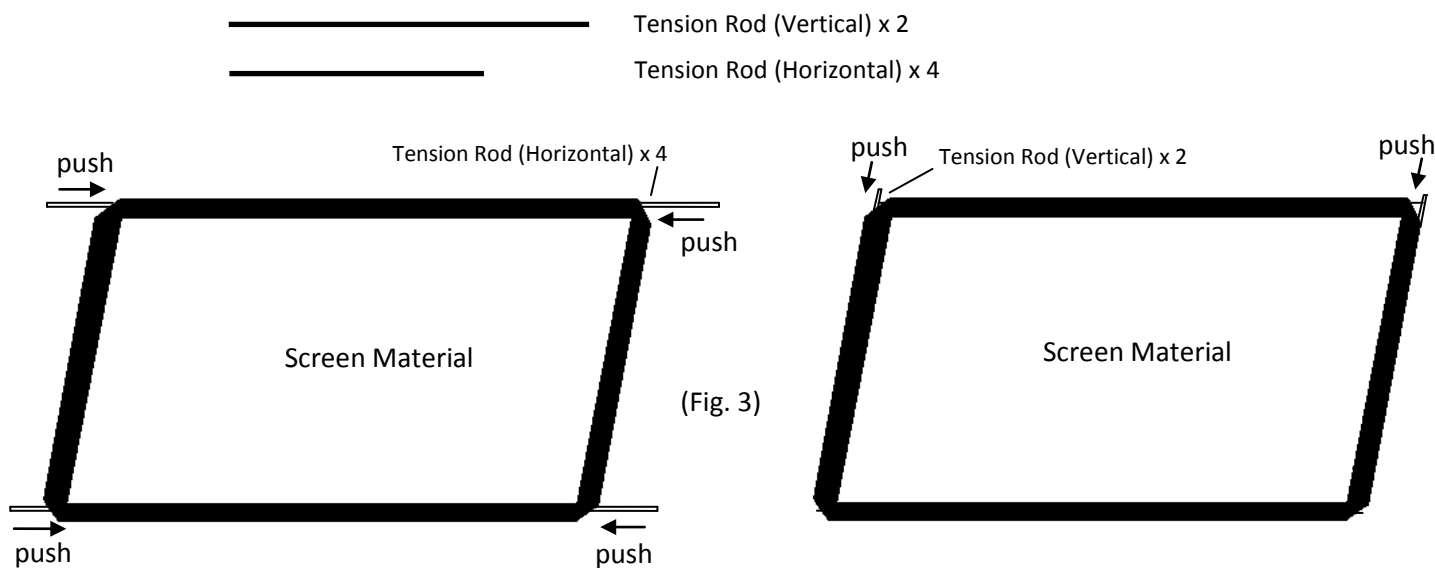
Push   Long frame   Push

M5×15 screws   Joint

M5×15 screws

(fig.1)

(Fig.1.1)

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 assembled, please push simultaneously the two ends of the long frames.

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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)

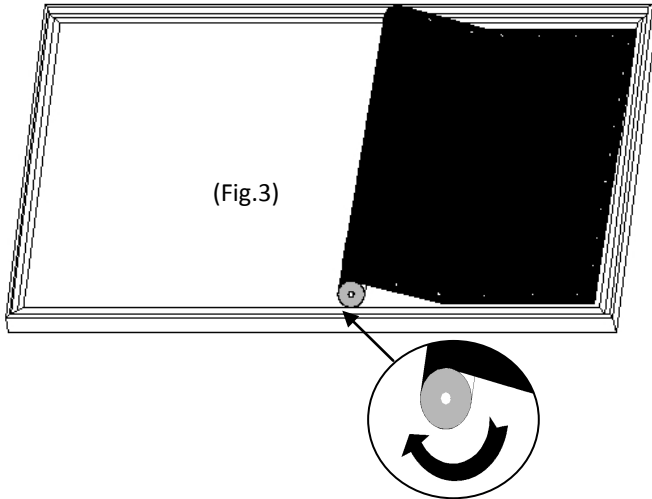### 4.3 Attaching the Screen Material to the Frame

1. Unroll the screen material and lay it down on a clean surface. Then insert the tension rods separately into the edges of all four corners of the material **(see fig.3)**

Tension Rod (Vertical) x 2

Tension Rod (Horizontal) x 4

push

Tension Rod (Horizontal) x 4

push

push

Tension Rod (Vertical) x 2

push

Screen Material

Screen Material

(Fig. 3)

push

push

push

5

2. Make sure that the material and frame are both lying face down on a clean, dry, and non-abrasive surface.

3. Center the material inside the frame.

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.
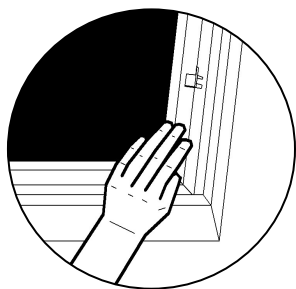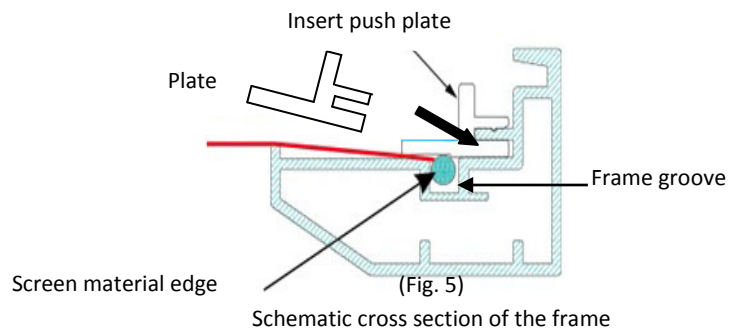
(Fig.3)

Notes :

- Make note of the label to help distinguish the back and front side.
- Unroll the screen material face down
- Keep the screen material as close as possible to the frame and do not allow it to scratch against any part of the frame.

4. Attach the fix plates.

(1) Stretch the material to the corner and insert the screen material's edge in the groove of the frame. While one hand holds the material in place the other hand snaps in the push plate (Fig.4-Fig.5).
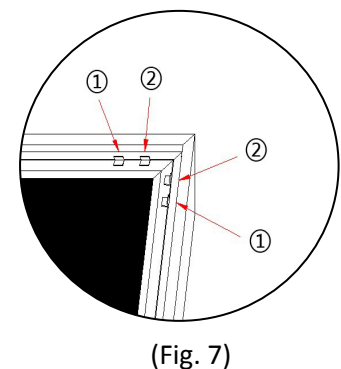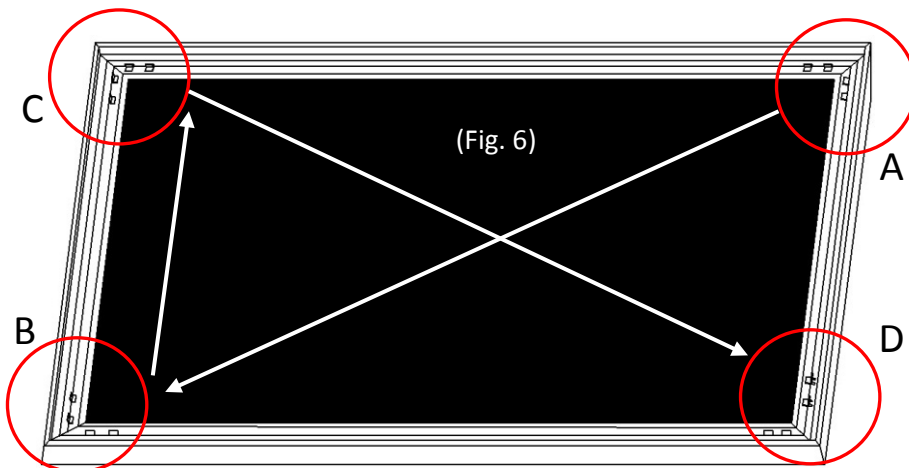
(Fig. 4)

Insert push plate

Plate

Frame groove

Screen material edge

(Fig. 5)

Schematic cross section of the frame

(2) Begin by securing the four corners in the following sequence A→B→C→D (Fig.6).

(3) Insert the fix the plates as shown on Fig. 5. Fix plate ① is about 10cm away from the frame's corner. Fix plate ② is about 5cm away. (Fig.7)

C

(Fig. 6)

A

B

D

① ②

②

①

(Fig. 7)

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Tip for attaching the last corner (D):

1. Position yourself left of location ①.

2. Pull the material to the corner of the frame with your 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.

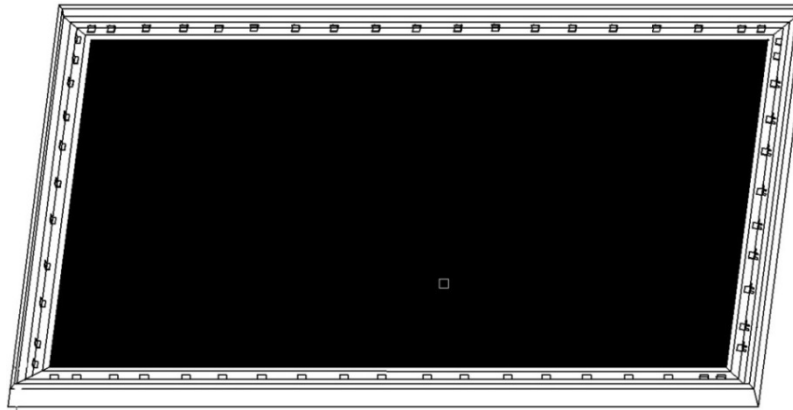4. Next, move and position yourself on location ③, then pull the edge to

(Fig. 8)

Pull

③
④

① ② ⑤
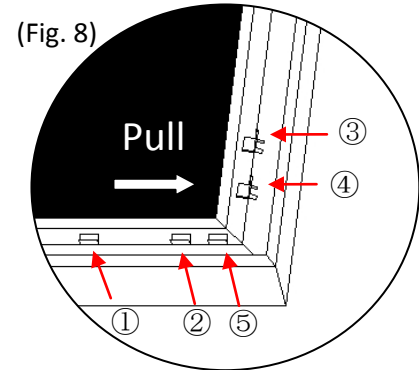
(4) Place a fix plate in the center of each side in the following orderE→F→G→H.(Fig.9)

E

H

G

F

(Fig.9)
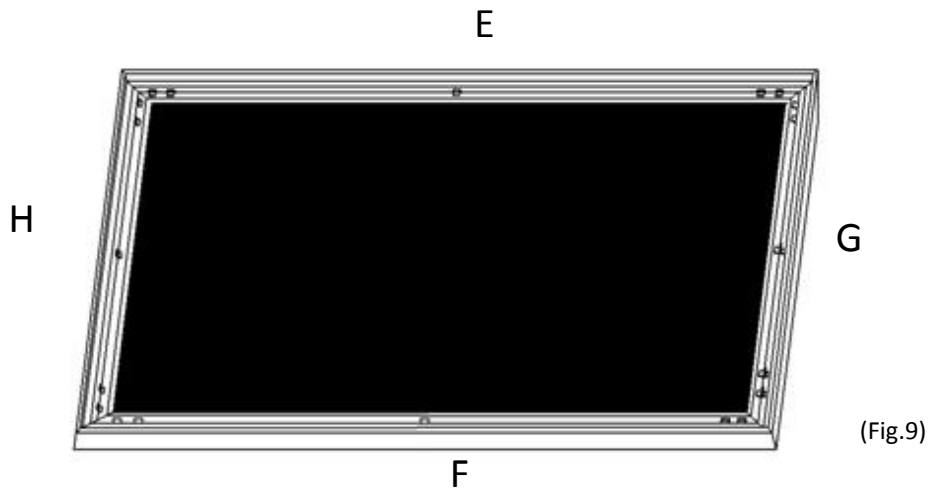
(5) Next, fasten a fix plate on the center of each frame side in the following order I→J→K→L→M→N→O→P as shown in Fig.10.

I   P

J

K   N

O

L   M

(Fig.10)
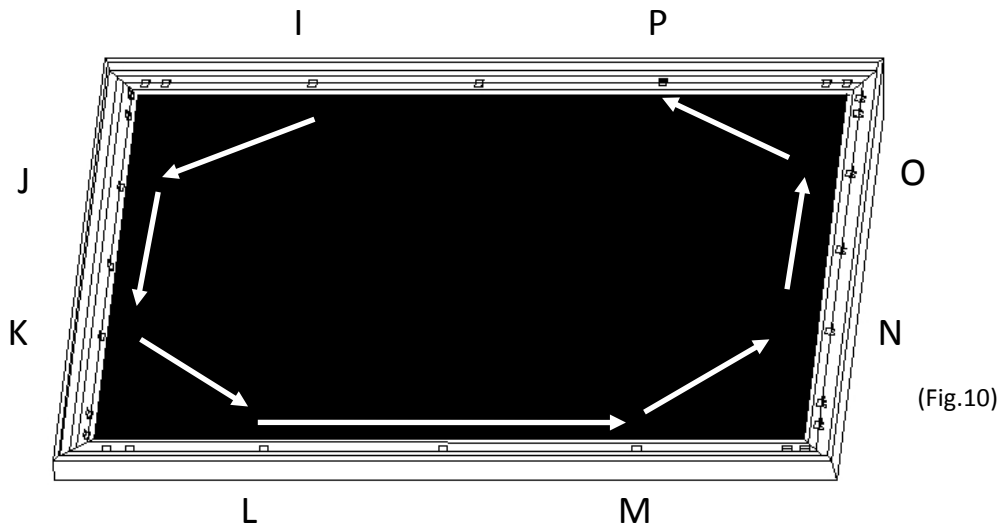
(6) Fasten the remainder of the fix plates in the empty locations in the red markings to complete attaching the screen material. (Fig.11)

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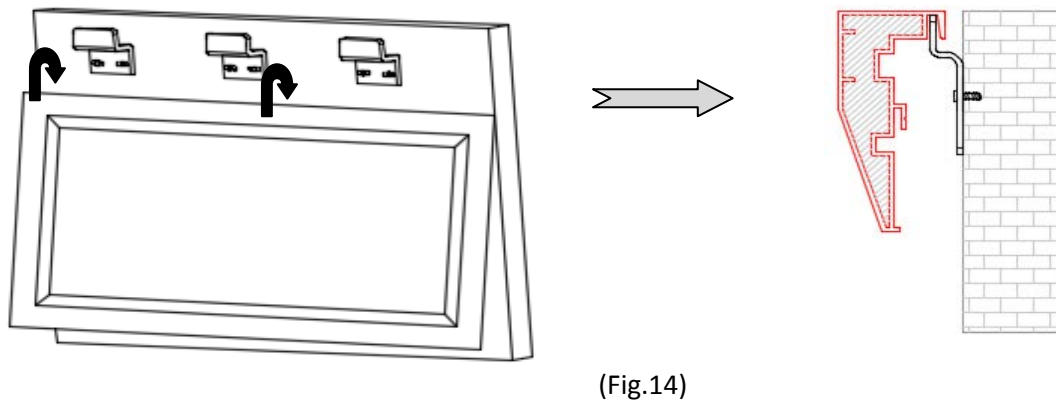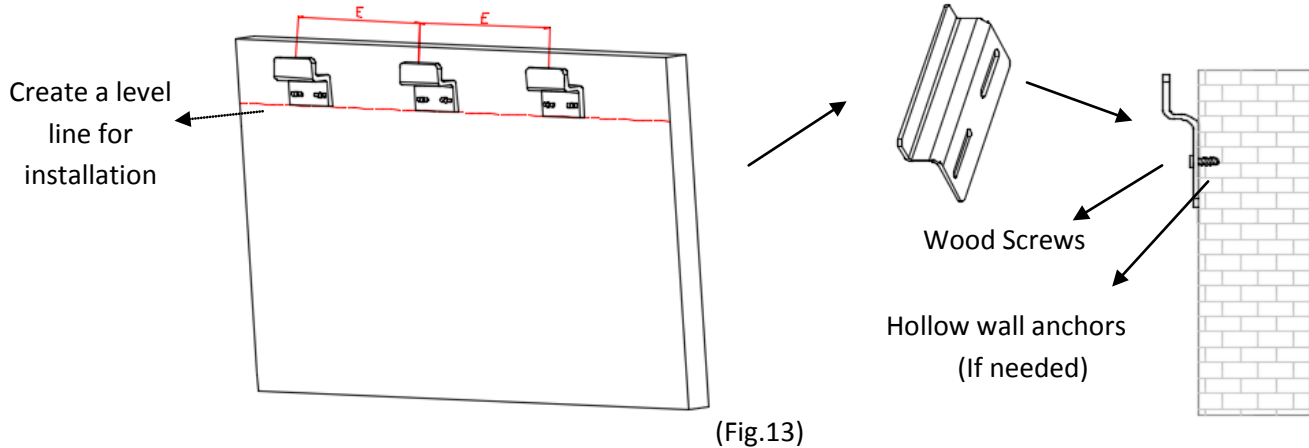

(Fig.11)

4.4 Center Support Bar

1.   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).**

(Fig. 12)
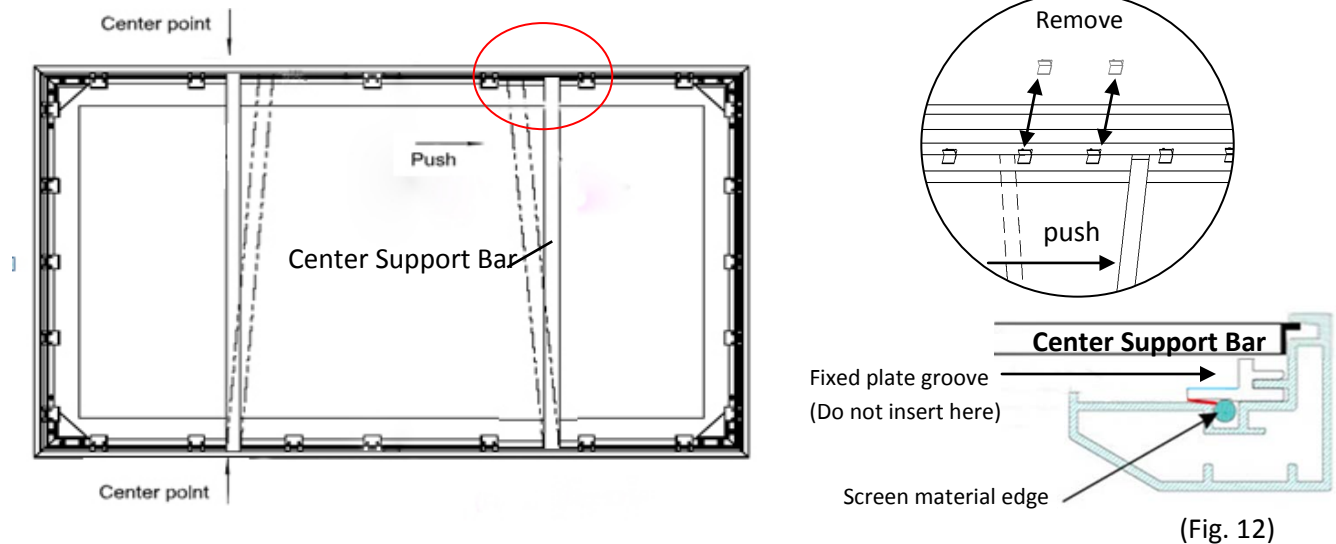
2.   Slide the top end of the bar into the top center point of the frame to complete the center support bar installation. **This will provide added stability to your frame and added tension to the material.**

4.5 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. The distance **E** between holes is about 1.5m to 2m depending on your screen size.
2. Drill a hole with the proper bit size and insert the Hollow wall anchor included into the hole.
3. Line up the wall brackets with the drilled holes on the installation location and screw them in using a screwdriver (Fig.14).
4. Position the fixed frame screen onto the top wall brackets as shown in (Fig. 15) 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.

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Create a level
line for
installation

Wood Screws

Hollow wall anchors
(If needed)

(Fig.13)

(Fig.14)

CAUTION

Please follow these instructions carefully to ensure proper maintenance and safety of your 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. When cleaning, use a damp soft cloth with warm water to remove any marks on the frame or screen surface.
6. Never attempt to use any solutions, chemicals or abrasive cleaners on the screen surface.
7. In order to avoid damaging the screen, avoid touching it directly with your fingers, tools or any other sharp or abrasive objects.
8. Spare Parts should be placed out of reach of small children in accordance with household safety guidelines.
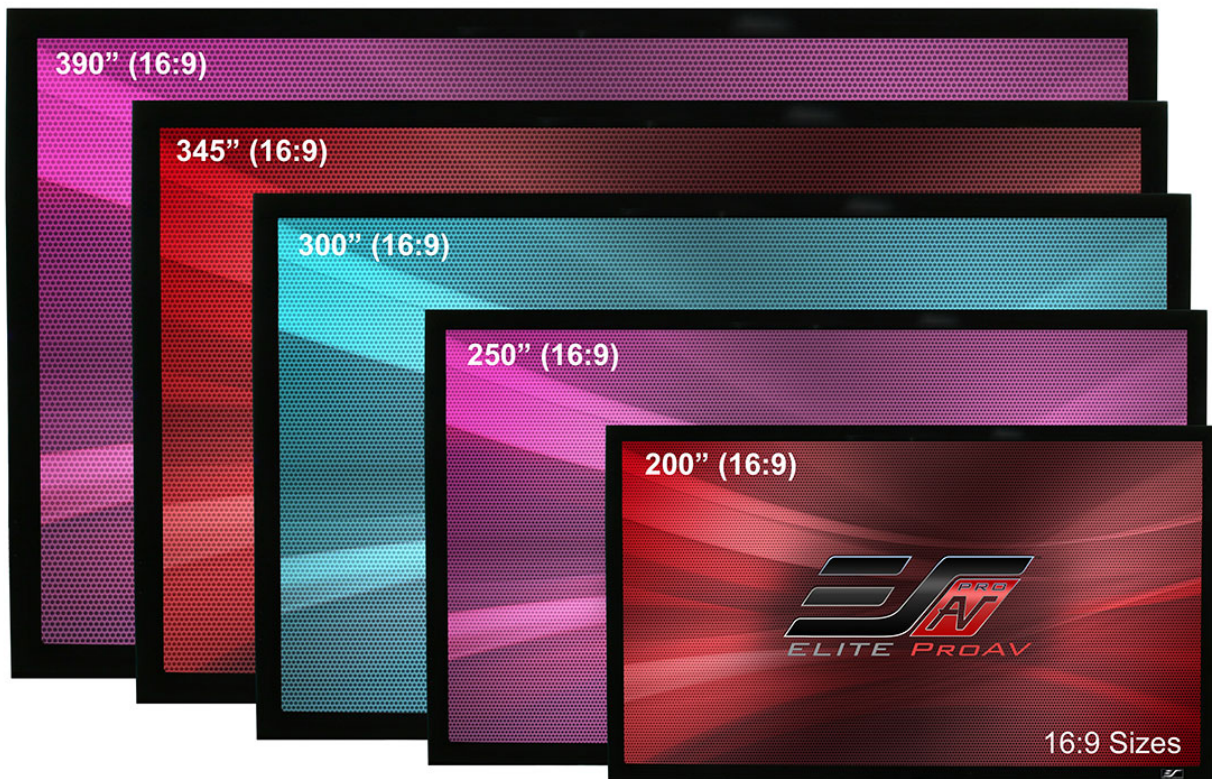
Section 5: Product Specifications

5.1 Dimensions

Model Number	Diag. Size	Aspect Ratio	A	A1	B	B1	C	D	D1
Unit: Inches									
R273WV1 Plus	273"	4:3	225.5	218.4	170.9	163.8	3.5	1.6	168.7
R300WV1 Plus	300"	4:3	247.1	240.0	187.1	180.0	3.5	1.6	184.9
R320WV1 Plus	320"	4:3	263.1	256.0	199.1	192.0	3.5	1.6	196.9
R200WH1 Plus	200"	16:9	181.5	174.4	105.1	98.0	3.5	1.6	103.0
R250WH1 Plus	250"	16:9	225.0	217.9	129.7	122.6	3.5	1.6	127.6
R300WH1 Plus	300"	16:9	268.6	261.5	154.2	147.1	3.5	1.6	152.0
R345WH1 Plus	345"	16:9	307.8	300.7	176.2	169.2	3.5	1.6	174.0
R390WH1 Plus	390"	16:9	347.0	339.9	198.3	191.2	3.5	1.6	196.1
Unit: mm									
R273WV1 Plus	273"	4:3	5727	5547	4341	4161	90	40	4285
R300WV1 Plus	300"	4:3	6276	6096	4752	4572	90	40	4697
R320WV1 Plus	320"	4:3	6682	6502	5057	4877	90	40	5002
R200WH1 Plus	200"	16:9	4610	4430	2670	2490	90	40	2615
R250WH1 Plus	250"	16:9	5715	5535	3293	3113	90	40	3240
R300WH1 Plus	300"	16:9	6822	6642	3916	3736	90	40	3860
R345WH1 Plus	345"	16:9	7818	7638	4476	4296	90	40	4420
R390WH1 Plus	390"	16:9	8814	8634	5037	4857	90	40	4982

5.2 Drawings

10
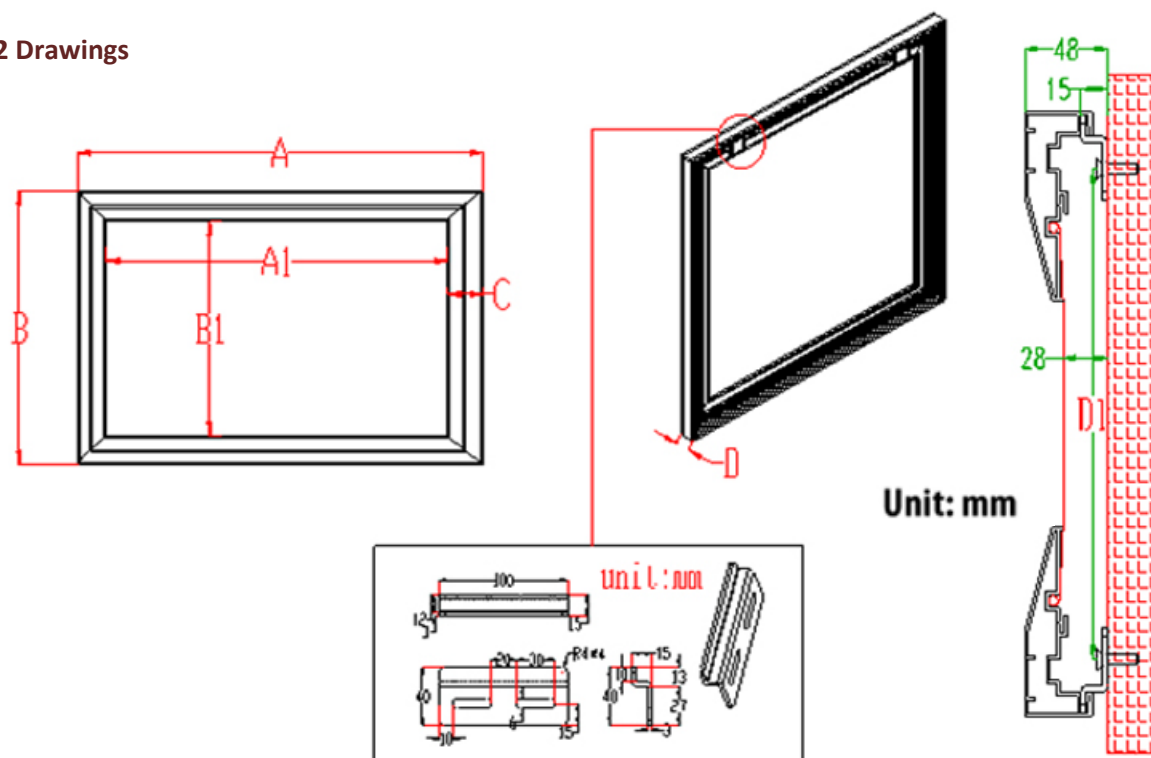
5.3 Pictures

ezFrame Plus Series Sizes in 16:9 Ratio

ezFrame Plus Series Sizes in 4:3 Ratio

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Life Style

ezFrame Plus Series
Model # R345WH1 Plus
Central Park Church

Undoctored image of actual projector presentation

Undoctored image of actual projector presentation

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ezFrame Plus Series
Model # R345WH1 Plus
Centeral Park Church

Undoctored image of actual projector presentation

Section 6: Company Description

6.1 About EliteProAV™

EliteProAV™ is a the manufacturer of projector screens for the commercial AV sales channel. It is a division of Elite Screens Inc., an ISO9001:2015 certified manufacturer that is presently the leading international brand of CE Retail projector screens with offices located worldwide.

EliteProAV™ provides an array of dedicated commercial grade projector screens for professional integrators. This includes certified products that are also compatible with building codes as well as   programs, warranties and trained professionals to assist installers every step of the way. Product is available through a series of regional warehouses located in Southern California, Texas, Georgia, and Maryland. EliteProAV™ is located at 12282 Knott St. Garden Grove, CA 92841. For more information, please call 877-511-1211 or visit http://www.eliteproav.com.

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