



## EVANESCE B SERIES

### Section 1: Screen Design

#### 1.1 What is it for?

The **Evanesce B** is a versatile in-ceiling projection screen that conveniently disappears from view when not in use. It can be installed from within the above-ceiling airspace or from below thanks to its removable base panels that were originally designed for the European market.

#### 1.2 How does it work?

Its GREENGUARD certified **MaxWhite® FG** (fiberglass-backed) 1.1 gain matte white material provides superb color temperature with wide diffusion uniformity. The screen is moved by a strong, fast-acting tubular motor and comes with a full IR/RF wireless, 12-volt trigger and Ethernet control package.

### Section 2: Product Features

#### 2.1 Characteristics

##### Screen Material

- GreenGuard® Certified MaxWhite® Fiberglass (FG) front projection material with black backing
- 1.1 Gain with a 180° wide-viewing angle for commercial and residential presentations
- Not compatible with Ultra/Short-throw Projectors
- Black masking borders enhance picture contrast
- 4K Ultra HD, Active 3D, and HDR Ready
- Available in the following diagonal sizes:
  - 100" and 120" in 4:3 format
  - 92", 100", 110" and 120" in 16:9 format

##### Design and Installation

- Aluminum housing with white finish (RAL9003) is slim yet strong and moisture resistant
- Concealed in-ceiling recessed front projection screen for multi-use rooms
- Installation kit included for above or below ceiling

##### Control System

- Internal Radio Frequency/Infrared receivers with IR, RF remotes included
- Low voltage 3-way position wall switch
- Standard 5-12 volt trigger to synchronize screen operation with the projector's power cycle
- RJ45 port allows 3rd party control systems integration
- Optional in-wall up/down switch (part# ZIW-W) - sold separately
- Optional wireless 5-12v triggers - sold separately

##### Quality and Reliability

- Tubular motor allows swift operation with a superior weight tolerance and operational lifespan
- Flame Retardant: Complies with NFPA 701 Standards
- GREENGUARD® and GREENGUARD® Gold Certified
- 2-year Parts & Labor manufacturer's warranty
- 3-year warranty offered through ENR-G program (Education, Non-Profit, Religious and Government)

2.2 Certifications



2.3 Model Numbers

Model Number	Diagonal Size	Aspect Ratio	View Height (in)	View Width (in)	Screen Material	Gain	Case Color	Net Weight (lbs)	Gross Weight (lbs)	Packaging Dimensions (LxHxW)
EB92HW2-E12	92"	16:9	45.1	80.2	MaxWhite® FG	1.1	White	28.1	50.6	99.2"x8.3"x7.7"
EB100VW2-E12	100"	4:3	60.0	80.0	MaxWhite® FG	1.1	White	38.7	51.9	100.0"x8.3"x7.9"
EB120VW2-E8	120"	4:3	72.0	96.0	MaxWhite® FG	1.1	White	36.3	58.8	115.4"x8.3"x7.7"
EB100HW2-E12	100"	16:9	49.0	87.2	MaxWhite® FG	1.1	White	30.6	52.5	105.7"x7.9"x7.5"
EB110HW2-E12	110"	16:9	53.9	95.9	MaxWhite® FG	1.1	White	33.4	56.8	115.0"x8.3"x7.7"
EB120HW2-E8	120"	16:9	58.8	95.9	MaxWhite® FG	1.1	White	35.9	59.6	122.8"x7.5"x7.9"
EB100HW2-E8	100"	16:9	49.0	87.2	MaxWhite® FG	1.1	White	30.5	51.2	106.2"x8.1"x7.6"

Section 3: Screen Material Specifications

3.1 Characteristics

**MaxWhite® Fiberglass (FG)** is fiberglass backed for added stiffness which provides the flattest possible non-tensioned screen surface with universal applications. This material provides wide viewing uniform diffusion while giving precise definition, color reproduction and black & white contrast. The screen surface has a black-backing to eliminate light penetration, is mildew resistant and washable with mild soap and water.



**\* Manufacturer tip: This is an enhanced matte white product for higher end DLP/LCD projectors suitable for commercial and residential presentations.**

**Features & Benefits**

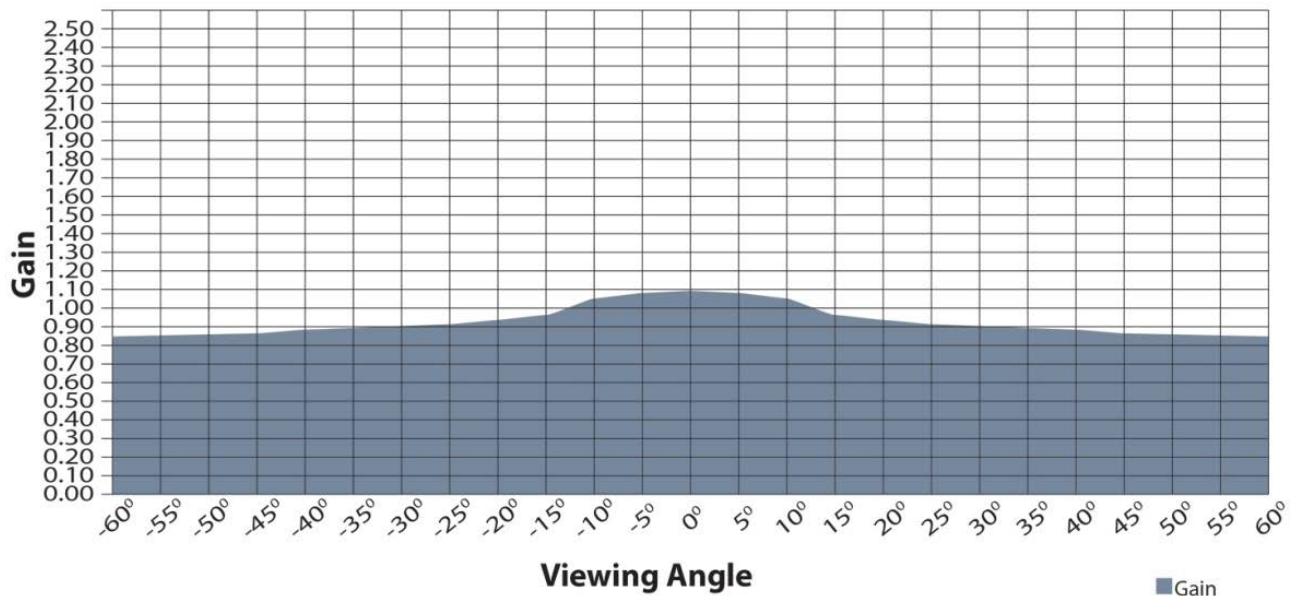
- Multi-layer weave with textured surface
- Fiberglass backing with black backing
- Gain: 1.1
- View Angle: 180° (90° ± LR)
- Not compatible with Ultra/Short-throw Projectors
- Mildew Resistant
- Active 3D, 4K Ultra HD, and HDR ready
- Surface can be cleaned with mild soap and water
- Flame Retardant: Complies with NFPA 701 Standards
- GREENGUARD® and GREENGUARD® Gold Certified | UL 2818

Specifications	
Thickness	0.36 mm (0.014")
Weight	350 g/m <sup>2</sup>
Maximum Height	3.2 M (10 ft)
On-axis gain	1.0
Half-Gain Angle	Does not reach half gain

**3.2 Gain and Viewing Angle Chart**



**On axis 0° Gain: 1.1**  
**Viewing Cone: 180°**





## Section 4: Execution

### 4.1 Important Safety & Warning Precautions

**Caution:** The screen's Black Top Drop is already set to its maximum drop distance. There is NO extra Black Top Drop in the roller. Please be aware of this as it will void your warranty with Elite Screens. Unapproved changes or modifications (except for cutting the power cord for hardwire installations) to this unit are prohibited and will void your warranty. For more information, please contact our Technical Support Department at (877) 511-1211 Ext. 604.

- Please retain this user's guide for future reference.
- To avoid damaging the unit, do not use with any unauthorized accessories not recommended by the manufacturer.
- Handle the unit carefully during transportation to avoid any damages.
- To ensure safe and reliable operation, direct connection to a properly grounded power source is advised.
- The power outlet supplying power to the unit should be close to the unit and easily accessible.
- Do not install the unit on uneven, inclined surfaces;
- Do not install in damp places to avoid an electric shock or short circuit.
- Do not place any heavy objects over the power cord.
- Position the power cord properly to avoid creating a trip obstacle.
- To avoid an electrical shock or fire, due to a loose contact or short circuit, do not overload the power cord.
- The internal & external parts of this unit are not end user serviceable. Do not attempt to disassemble this unit by yourself. No one except authorized technicians can open and make repairs to this unit.
- Make sure the power source that this unit is connected to has a continuous power flow.
- If there is need to use an extension cord, make sure the cord has an equal rating as the appliance to avoid over heat.
- Do not handle the power plug when your hands are wet or your feet are in contact with water.
- Properly dispose of this equipment according to the environmental regulations in your area when product is no longer of service.

### **Do not use this unit under the following circumstances.**

- Disconnect the power cord under the conditions of heavy rain, wind thunder or lightning.
- Avoid direct sun light, rain shower and moisture.
- Keep away from fire sources and high temperature to prevent this device from overheating.
- Cut off the power supply first before transportation or maintenance.
- To avoid possible injury and/or an electric shock, do not attempt to use this screen if there is obvious damage or if there are any evident broken parts.



## 4.2 Installation Warning

**The instructions provided in this user's guide are for reference only. Please consult a professional installation company for further installation and safety advice. The installer must insure that proper mounting hardware is used to provide adequate strength suitable for the installation. Elite Screens is not liable for any faulty installations. For limit adjustment instructions, please contact our Technical Support Department at (877) 511-1211 Ext. 604**

The Screen's **Top Black Drop** is already set to its maximum drop distance. There is **NO** extra top black drop in the roller. Please be aware of this as it will void the limitation of your warranty.

Individual modifications to this product are prohibited and will void the warranty with the manufacturer. Please contact Elite Screens Customer Service for any questions.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur on a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- ✓ **Reorient or relocate the receiving antenna of the device which may be causing the interference.**
- ✓ **Increase the separation between the screen and the device's receiver.**
- ✓ **Connect the equipment into a different power outlet other than the device.**

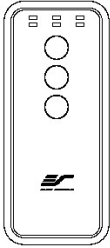


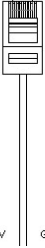

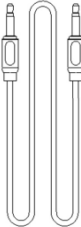

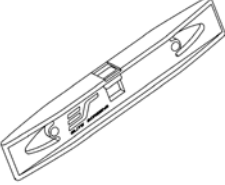
## 4.3 Pre-Installation

1. Carefully unpack the screen.
2. Always handle the screen in a leveled position on a clean surface.
3. In order to protect the screen from exposure to stains, keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.

### NOTE:

Regardless of the mounting method, the screen should be securely supported so that the vibration or pulling on the viewing surface will not cause the casing to become loose or fall. The installer must insure the fasteners that are used are of adequate strength and suitable for the installation location.

4.4 Controls and Accessories

Evanesce B Series Controls and Accessories			
A. IR Remote	B. RF Remote	C. Wall switch control box	D. 5-12 volt trigger cable
			 Red 12V Green 0V
E. IR extended "eye" receiver	F. Wireless 5-12v (3.5 mm) mono trigger cable	G. AAA batteries	H. Bubble leveler
			

4.5 Screen Operation

**Electric Current:** Depending upon region, your Elite Screen will operate on 100v, 110v, or 220v voltage.

1. After ensuring the power outlet & screen are compatible (voltage), plug the power cord into the power outlet.
2. Once the screen has power, you'll be able to control it using any of the 6 methods described below.

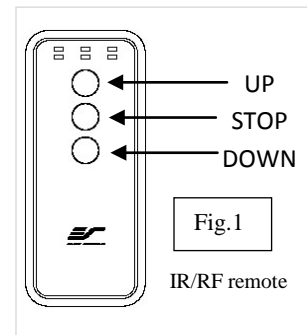
**6 ways to control your Evanescence B**

1. **IR remote control (Item A, Fig 1):** The Infrared functions by direct line of sight contact with a beam range of 30 feet. Aim the IR remote at the "eye" receiver once it has been connected to the control box's RJ45 port.

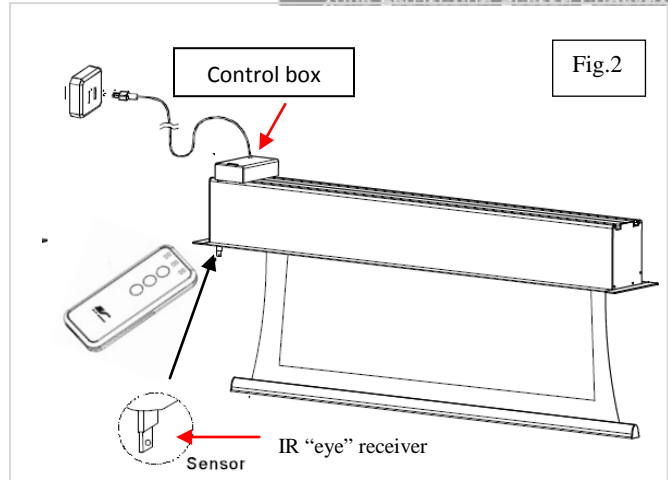
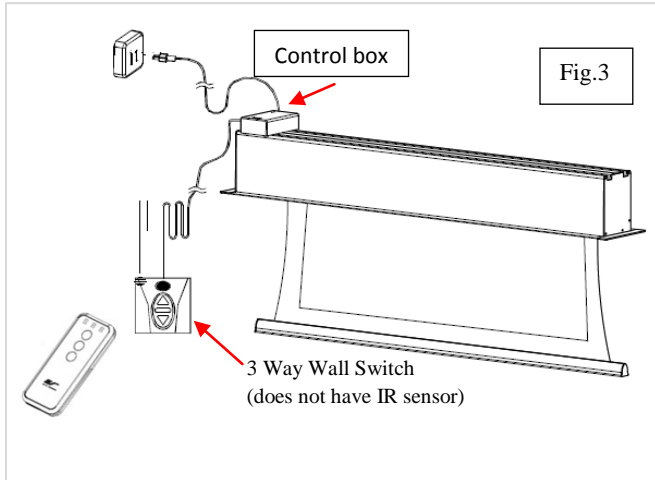
2. **IR "Eye" Receiver (Item E, Fig 2):** The IR "Eye" Receiver plugs directly into the control box's RJ45 port to present a low profile line-of-sight control option for your IR remote control even in a recessed ceiling installation.

3. **RF Remote Control (Item B):** The radio waves eliminate the need for a direct line of sight with a range of 100 feet.

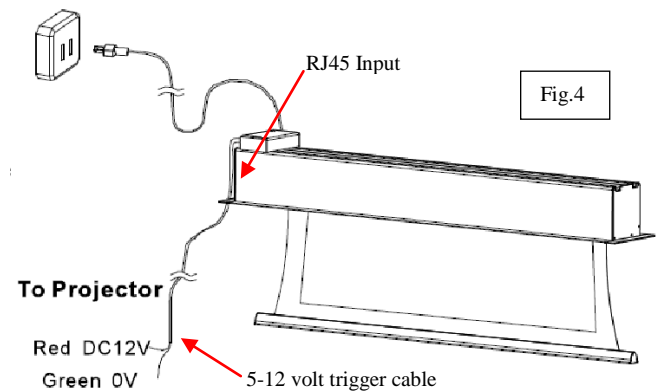
4. **3-Way Wall Switch (Item C, Fig 3):** The 3-way wall switch is a wall mount switch with an up/stop/down button and plugs directly into the control box's RJ45 port.



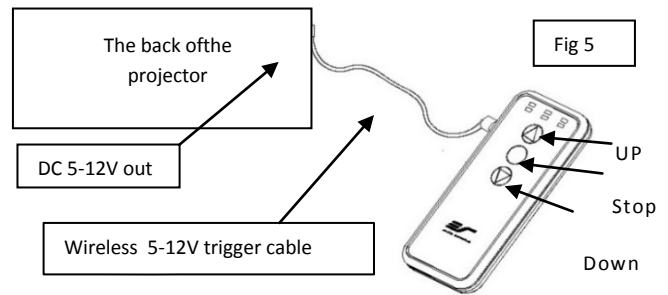




**5. 5-12 volt trigger (Item D, Fig 4):** The built-in 5-12V trigger input allows your screen to synchronize its drop & rise with the projector's power cycle. The screen deploys when the projector powers up and will retract when the projector powers down. The 5-12 volt RJ45 cable connects to your projector's trigger output via a separate cable that may or may not be provided by the manufacturer of the projector. The trigger feature will not work without an output cable from the projector, but it can be tested by connecting the Red (+) and Green (-) cable to a 9-volt battery.



**6. Wireless 5-12 volt trigger (Item F, Fig 5):** The RF remote control serves as a dual purpose, independently as a handheld remote control, or in conjunction with the Wireless 5-12 volt trigger cable. The radio frequency technology can be programmed to send a wireless signal to synchronize its drop/rise with the projector's power cycle.




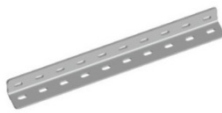
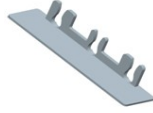






**Here's how to set up your Wireless 5-12 volt trigger | Synchronization Instructions**

- Step 1:** Connect one end of the 3.5 mm wireless 5-12 volt trigger cable to the RF remote.
  - Step 2:** Connect the other 3.5 mm end of the wireless 5-12 volt trigger cable to your projector
  - Step 3:** Make sure to unplug your screen from the power outlet
  - Step 4:** Hold the **UP** button on your RF remote
  - Step 5:** While holding the **UP** button, plug the screen back to the power outlet
  - Step 6:** Wait 5 seconds and then release the **UP** button
  - Step 7:** Your 5-12V wireless trigger should now be activated with your screen and ready to be used and able to control your screen with your projector's power cycle
- Repeat the steps again if not successful.

(Please be aware, the projector on/off cycle may take longer to fully activate. It usually takes around 20-30seconds for full off and on cycle each time)

4.6 Hardware Parts List

Please make sure all parts listed below are included before proceeding with the installation.

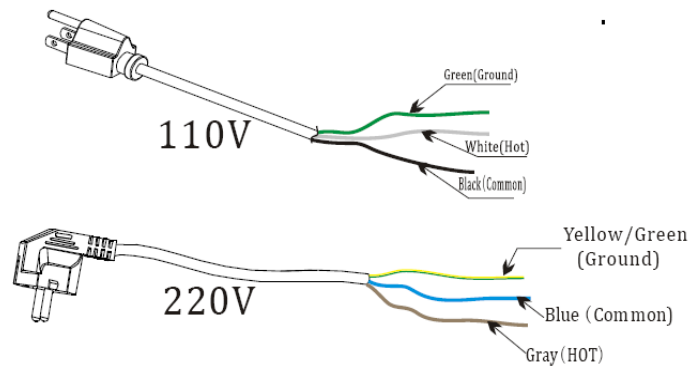
Hardware Parts List for above ceiling installation		
A. Suspension Bracket x 2 	B. Suspension Bar x 4 	C. End Flange x 2 
C. M8x16mmx1.5mm washer x 8 	D. M6x13mmx2mm washer x 8 	E. M8 nut x 4 
F. M6 nut x 4 	G. M8x40mm hex screw x 4 	H. M6x20mm screw x 4 

4.7 Installation Instructions

The Evanesce B allows access for above or below ceiling installation. Please follow the instructions described in the following steps below for your type of installation.

Power

The Evanesce B Series includes a 3-Prong Power Cord (2-Prong Power Cord for some countries) for use in a non-concealed power outlet. If your installation will be entirely concealed (including power outlet), Elite Screens strongly recommends a hardwire connection. Please refer to the image below both 110v & 220v wiring information.

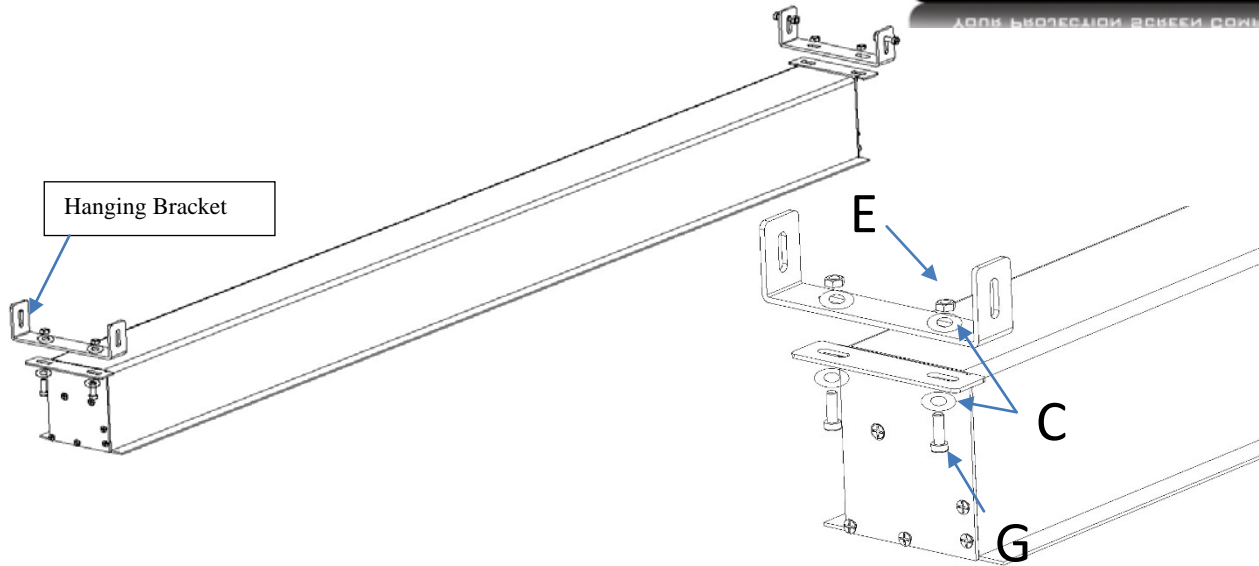


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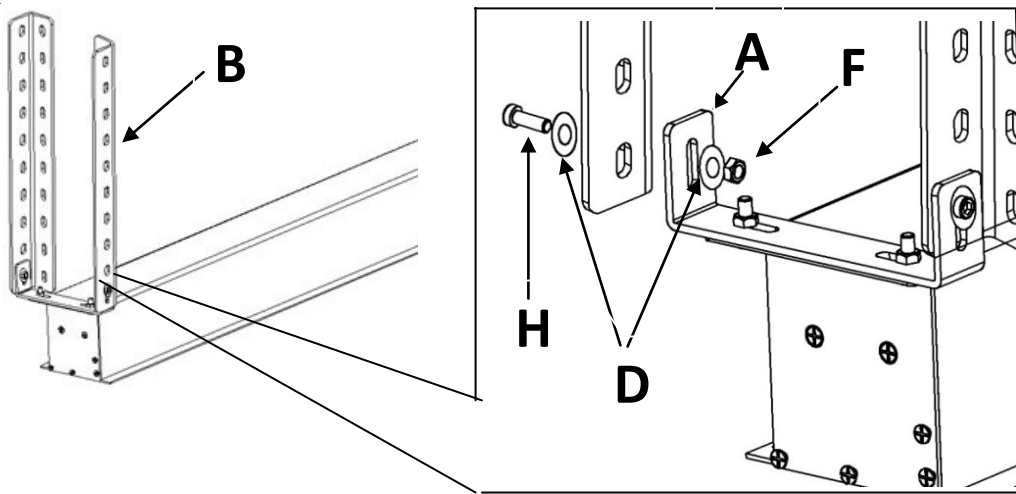
A. Above Ceiling Installation Instructions  
Assembly

1. Place the **hanging bracket** (A) over the left and right side ends of the housing and secure each one using the **M8x40mmhex screw** (G), **M8x16mmx1.5mm washers** (C) and **M8 nut** (E) as shown below.

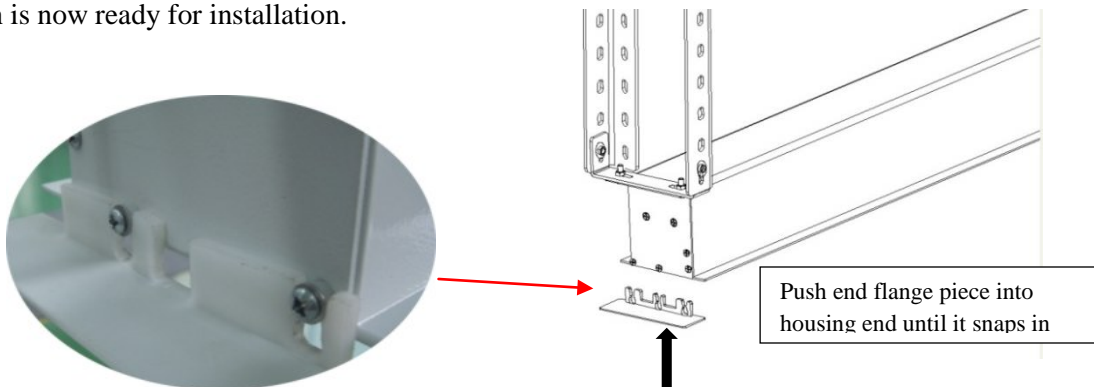




- Place the **Suspension Bar** (B) over the **Hanging Bracket** (A) and align with the hole as shown below according to the height requirement for your installation area. Secure the **Suspension Bar** (B) with the **M6x20mm Screw** (B), **M6x13mmx2mm Washer** (E) and the **M6 Nut** (F). Repeat the process for the other side.







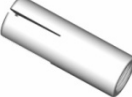



- Insert the **end flange piece** (C) on the edge of the housing as shown below to complete the assembly. The screen is now ready for installation.



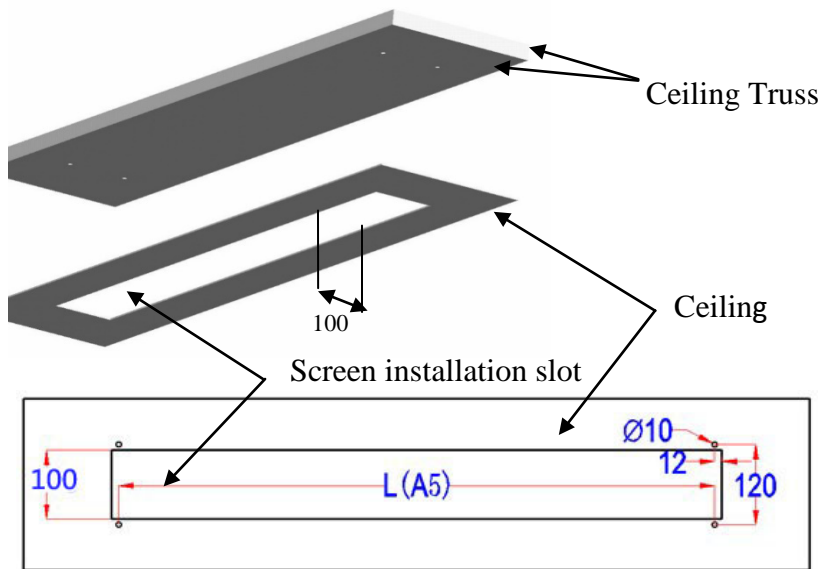
## B. Below Ceiling Installation Instructions

*Please make sure all parts listed below are included before proceeding with the installation.*

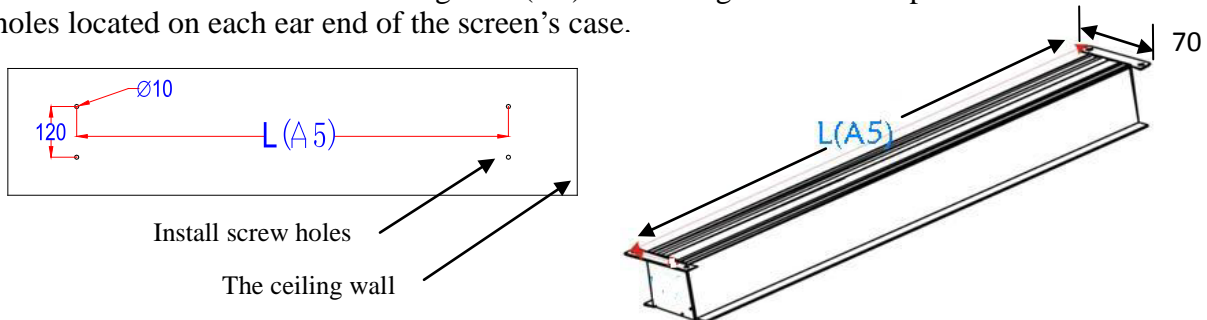
Hardware Parts List for below ceiling installation			
A. End Flange x 2 	B. Hanging bracket x 2 	C. Threaded rod x 4 	D. Socket wrench x 1 
E. M8x16mmx1.5mm washer x 28 	F. M8 nut x 20 	G.M8 Top expanding bolt x 4 	H. M8x40mm hex screw x 4 

1. Measure and cut the ceiling installation slot:

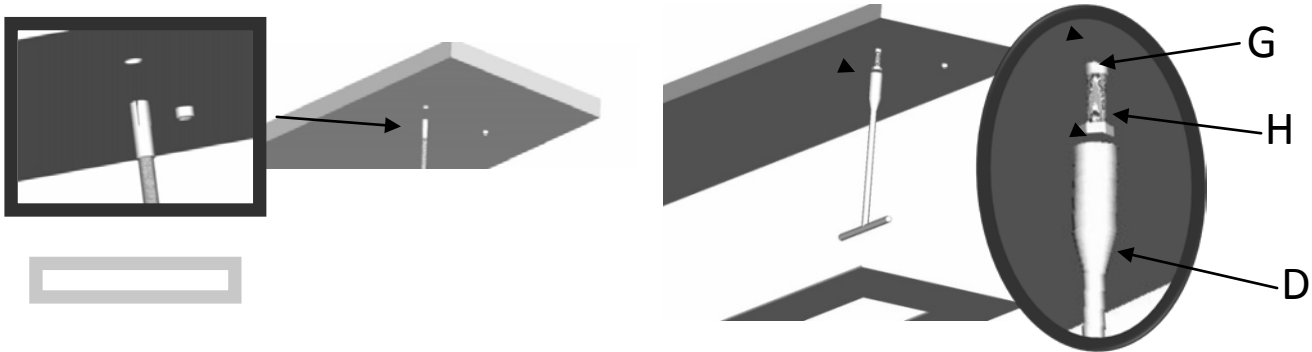
The width should not exceed 100mm and not less than the width of the screen’s housing. Measure the length of your screen to determine the length.



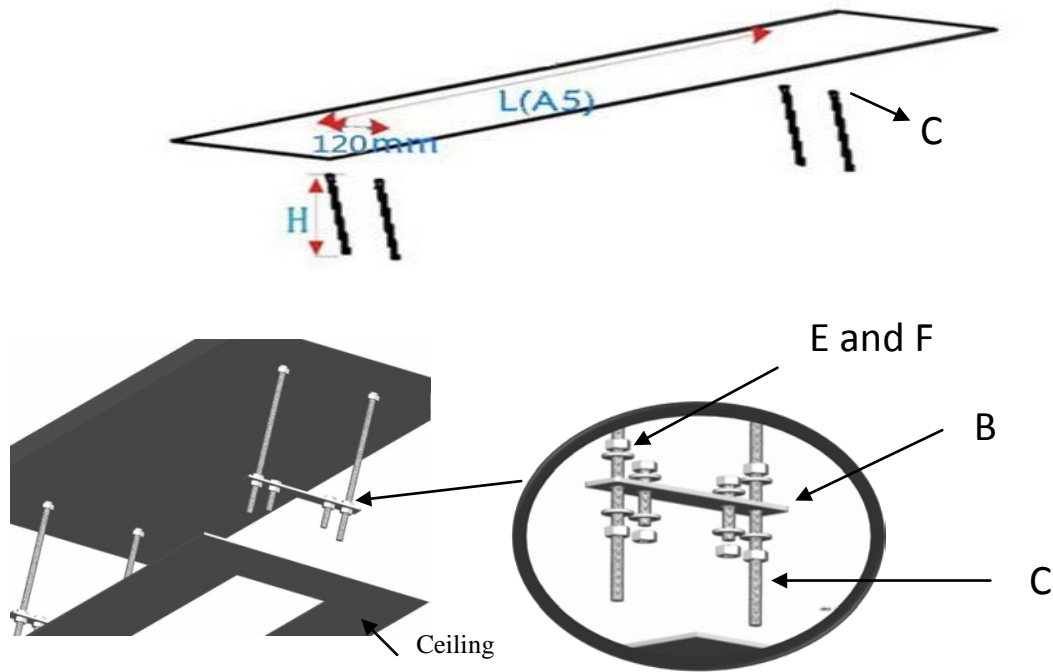
2. Drill 4 holes in the ceiling that correspond with the attachments on the various casing sizes. The width should be 120mm. The length of (A5) in the diagram below depicts the distance between the holes located on each ear end of the screen’s case.



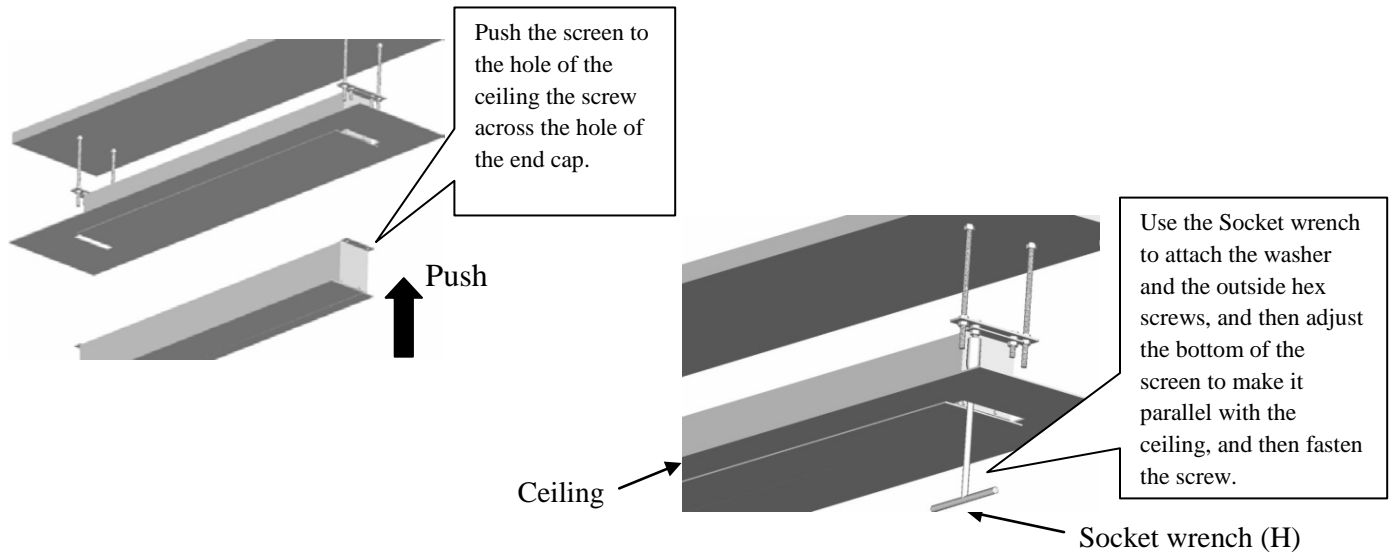
- The **M8expanding bolts** (G) mount into thick wood beams, stone or concrete and will support the screen. Use the **Socket wrench** (D) to attach the **M8x40mm hexagonal screws**. The expanding bolts should be firmly tightened and tested to make sure that they will hold the weight of the screen.



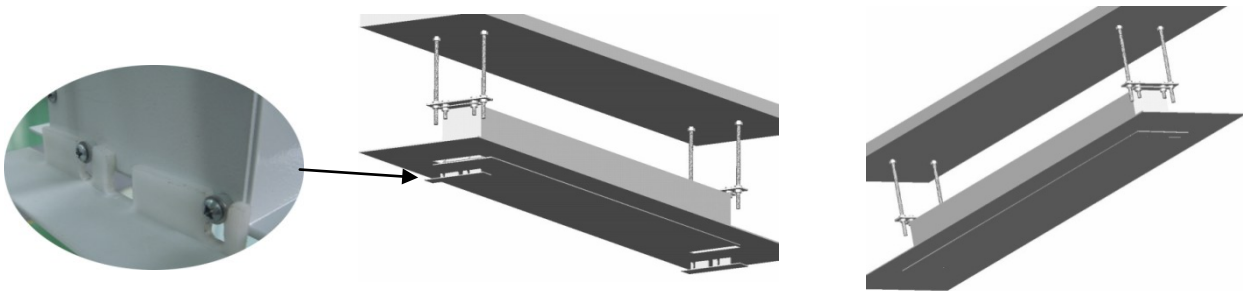
- Insert the **threaded rods** (C) through the **M8 expanding bolts** and then attach the **M8x40mm hexagonal screws** with the **washer** (E). Last put the **Hanging Bracket** (B) through the threaded rod equal to the height of the screen's housing. Once they are firmly in place (as shown below) make sure that they will hold the weight of the screen.



- Push the screen up into the space. Use the **threaded rods** (C) to attach the screen assembly to the ceiling. The **hexagonal screws** (E) will connect the screen to the rest of the assembly. Once firmly in place; use the **nuts** (F) to ensure a firm connection. Use the **socket wrench** (D) to make sure that the bolts are firmly tightened.



6. Install **end flange cover panel (A)** between the gap and the screen to complete the installation.



## Section 5: Product Specifications

### 5.1 Dimensions

#### 5.1.1 Above Ceiling Dimensions

Model Number	A	A1	A2	Screen Width	A3	A4	A5	B	B1	B2	B3	B4	B5	C	C1	C2	C3	C4
Unit: mm																		
EB92HW2-E12	2291	2037	50	2137	2225	2230	2261	2548	1146	305	76	95	1527	80	925	145	180	50
EB100VW2-E12	2290	2032	50	2132	2225	2230	2260	2925	1524	305	76	95	1905	80	925	145	180	50
EB120VW2-E8	2695	2438	50	2538	2630	2635	2665	3128	1829	203	76	95	2108	80	925	145	180	50
EB100HW2-E12	2471	2214	50	2314	2406	2411	2441	2646	1245	305	76	95	1626	80	925	145	180	50
EB110HW2-E12	2695	2435	50	2535	2630	2635	2665	2771	1370	305	76	95	1751	80	925	145	180	50



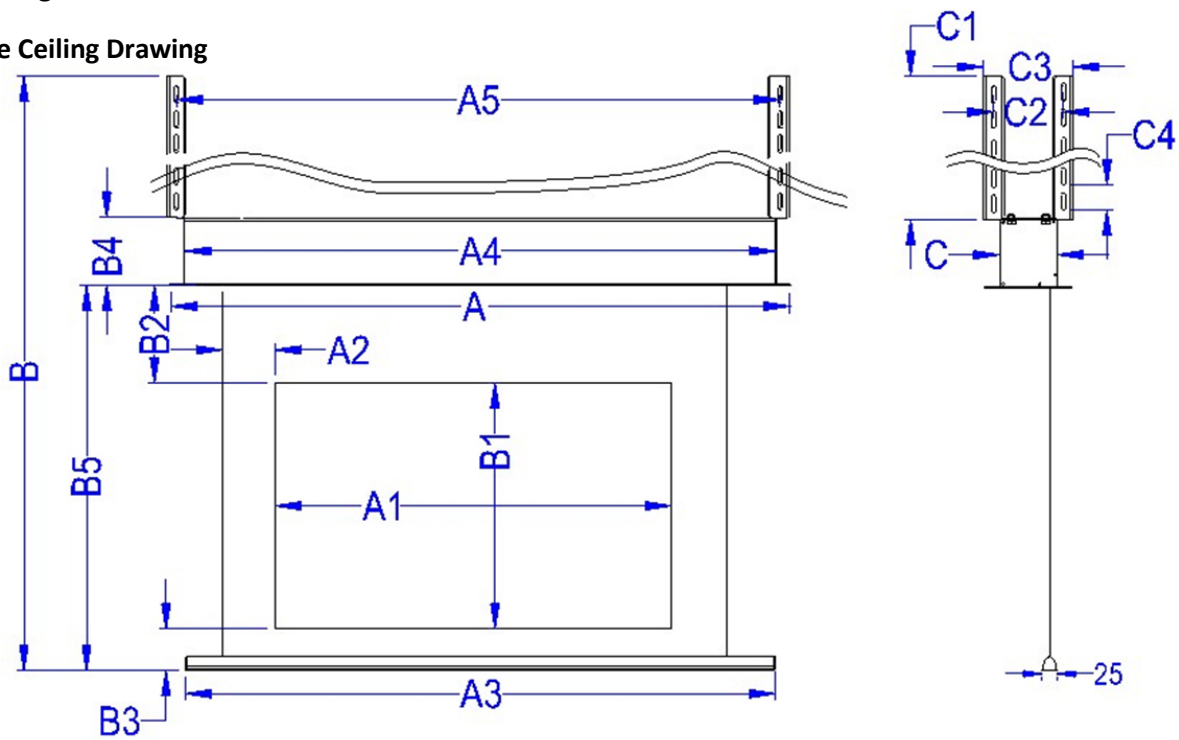
Model Number	A	A1	A2	Screen Width	A3	A4	A5	B	B1	B2	B3	B4	B5	C	C1	C2	C3	C4
EB120HW2-E8	2913	2436	50	2535	2850	2855	2883	2794	1494	203	76	95	1773	80	925	145	180	50
EB100HW2-E8	2471	2214	50	2314	2406	2411	2441	2544	1245	203	76	95	1524	80	925	145	180	50
<b>Unit: Inch</b>																		
EB92HW2-E12	90.2	80.2	2.0	84.1	87.6	87.8	89.0	100.3	45.1	12.0	3.0	3.7	60.1	3.1	36.4	5.7	7.1	2.0
EB100VW2-E12	90.2	80.0	2.0	83.9	87.6	87.8	89.0	115.2	60.0	12.0	3.0	3.7	75.0	3.1	36.4	5.7	7.1	2.0
EB120VW2-E8	106.1	96.0	2.0	99.9	103.5	103.7	104.9	123.1	72.0	8.0	3.0	3.7	83.0	3.1	36.4	5.7	7.1	2.0
EB100HW2-E12	97.3	87.2	2.0	91.1	94.7	94.9	96.1	104.2	49.0	12.0	3.0	3.7	64.0	3.1	36.4	5.7	7.1	2.0
EB110HW2-E12	106.1	95.9	2.0	99.8	103.5	103.7	104.9	109.1	53.9	12.0	3.0	3.7	68.9	3.1	36.4	5.7	7.1	2.0
EB120HW2-E8	114.7	95.9	2.0	99.8	112.2	112.4	113.5	110.0	58.8	8.0	3.0	3.7	69.8	3.1	36.4	5.7	7.1	2.0
EB100HW2-E8	97.3	87.2	2.0	91.1	94.7	94.9	96.1	100.2	49.0	8.0	3.0	3.7	60.0	3.1	36.4	5.7	7.1	2.0

**5.1.2 Below Ceiling Dimensions**

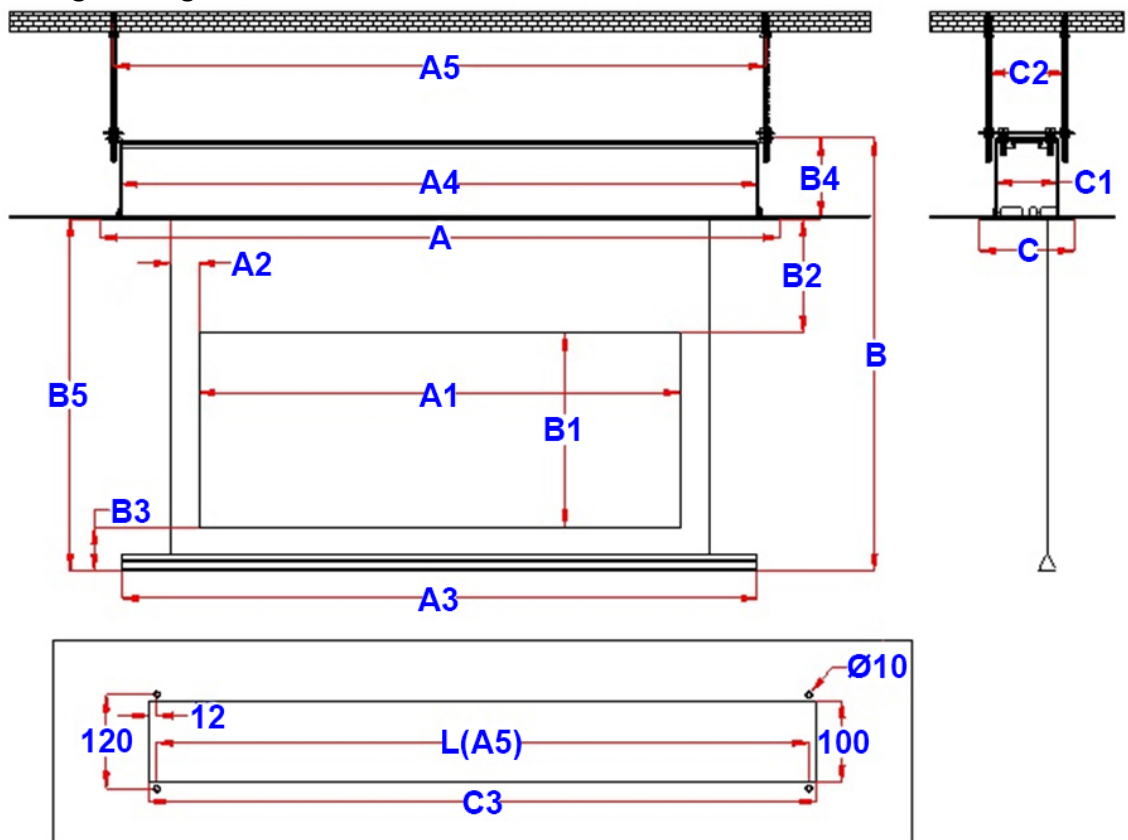
Model Number	A	A1	A2	Screen Width	A3	A4	A5	B	B1	B2	B3	B4	B5	C	C1	C2	C3
<b>Unit: mm</b>																	
EB92HW2-E12	90.2	80.2	2.0	84.2	87.6	87.8	89.0	63.9	45.1	12.0	3.0	3.7	60.1	4.3	3.1	4.7	89.8
EB100VW2-E12	90.2	80.0	2.0	83.9	87.6	87.8	89.0	78.7	60.0	12.0	3.0	3.7	75.0	4.3	3.1	4.7	89.8
EB120VW2-E8	106.1	96.0	2.0	99.9	103.5	103.7	104.9	86.7	72.0	8.0	3.0	3.7	83.0	4.3	3.1	4.7	105.7
EB100HW2-E12	97.3	87.2	2.0	91.1	94.8	95.0	96.1	67.8	49.0	12.0	3.0	3.7	64.0	4.3	3.1	4.7	96.9
EB110HW2-E12	106.1	95.9	2.0	99.8	103.5	103.8	105.0	72.7	54.0	12.0	3.0	3.7	69.0	4.3	3.1	4.7	105.7
EB120HW2-E8	114.7	104.6	2.0	108.5	112.2	112.4	113.5	73.5	58.8	8.0	3.0	3.7	69.8	4.3	3.1	4.7	114.3
EB100HW2-E8	97.3	87.2	2.0	91.1	94.7	94.9	96.1	63.7	49.0	8.0	3.0	3.7	60.0	4.3	3.1	4.7	96.9
<b>Unit: Inch</b>																	
EB92HW2-E12	2291	2037	51	2139	2225	2230	2261	1623	1146	305	76	94	1527	110	80	120	2281
EB100VW2-E12	2290	2032	50	2132	2225	2230	2260	2000	1524	305	76	95	1905	110	80	120	2280
EB120VW2-E8	2695	2438	50	2538	2630	2635	2665	2203	1829	203	76	95	2108	110	80	120	2685
EB100HW2-E12	2472	2214	50	2314	2407	2412	2442	1721	1245	305	76	95	1626	110	80	120	2462
EB110HW2-E12	2695	2435	50	2535	2630	2636	2666	1847	1371	305	76	95	1752	110	80	120	2685
EB120HW2-E8	2914	2657	50	2757	2849	2854	2884	1868	1494	203	76	95	1773	110	80	120	2904
EB100HW2-E8	2471	2214	50	2314	2406	2411	2441	1619	1245	203	76	95	1524	110	80	120	2461

5.2 Drawings

5.2.1 Above Ceiling Drawing



5.2.2 Below Ceiling Drawing





### 5.3 Pictures

#### *Evanesce B Series* – Front View



#### Housing and Weight Bar Detail



***Evanesce B Series*** – Housing



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**Section 6: About Elite Screens**

**6.1 Company Description**

*Elite Screens Inc.* is a California based company that specializes in making quality commercial and home-theater projection screens for the retail and custom install sales channels. Our company began as an innovative venture into the projection market by manufacturing veterans from the AV/IT industry. Elite Screens quickly established itself as an entry level commercial and home theater screen manufacturer. This was accomplished by making a quality product cost effective with a focus on mass-producing screen material, sizes and aspect ratios that were most commonly preferred by AV customers in general. We focused on uniformity with what would match the mainstream demographic while including extra features that are not usually included by other manufacturers. In time, we progressed from just retail sales into the realm of custom installer/integrator manufacture as our numerous reviews and awards will attest. We stand behind our product and are so certain of customer satisfaction with the quality of our product that we offer a 2-year manufacturer's warranty which is twice the industry standard. In our continued devotion to excellence in products and service, we are committed to implementing green practices with our production. We have adopted manufacturing methods that promote conservative regulation of our energy needs. Our simple product designs combined with the expertise of our permanent staff ensures that our entire line of products are made by experienced hands devoted to the high standards of today's audio-video consumer.

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Elite Screens Inc. | Elite Screens Europe GmbH | Elite Screens France SAS | Elite Screens India | Elite Screens China Ltd.  
 Elite Screens Taiwan Corp. | Elite Screens Japan | Elite Screens Australia