

## **EVANESCE TAB-TENSION B SERIES**

### **Section 1: Screen Design**

#### **1.1 What is it for?**

The *Evanesce Tab-Tension B* is our newest in-ceiling recessed projection screen. It is designed for concealed installations. It utilizes our **CineWhite®** front projection material. Images pop and videos maintain true colors.

#### **1.2 How does it work?**

The tab-tensioned system maintains flatness uniformity throughout the entire surface with no tab impressions.

### **Section 2: Product Features**

#### **2.1 Characteristics**

##### **Screen Material**

- CineWhite® tensioned front projection material
- 180° wide-viewing angle and 1.1 gain
- 4K Ultra HD, Active 3D, and HDR Ready
- Tab-tension cords provide uniform flatness on entire projection surface
- Black-backing and black masking borders
- Available in the following diagonal sizes:
  - 92", 100", 110" and 120" in 16:9 format

##### **Design and Installation**

- Below and above ceiling access installation design
- Concealed in-ceiling front projection screen for multi-use rooms
- Aluminum housing with white finish (RAL9003) is slim yet strong and moisture resistant
- Integrated ceiling projection screen ships fully assembled, ready to install
- Installation kit included

##### **Control System**

- Internal Radio Frequency/Infrared receivers with IR, RF remotes included
- Low voltage 3-way wall switch and in-wall RJ45 module included
- Standard 5-12 volt trigger to synchronize screen operation with the projector's power cycle
- RJ45 port allows 3rd party control systems integration

# PRODUCT WHITE PAPER

<http://www.elitescreens.com>



- Optional in-wall up/down switch (part# ZIW-W) - **sold separately**
- Optional 5-12 volt wireless trigger - **sold separately**

## Quality and Reliability

- ETL, FCC, CE, CB GOSTCE & ISO9001:2008
- 2-year Parts & Labor manufacturer's warranty
- 3-year warranty offered through ENR-G program (Education, Non-Profit, Religious and Government)

## 2.2 Model Numbers

Model Number	Diag. Size	Aspect Ratio	Viewing Height (in)	Viewing Width (in)	Screen Material	Gain	Case Color	N.W. (lbs)	G.W. (lbs)	Packaging Dimensions (LxWxH)
ETB92HW2-E12	92"	16:9	45.1	80.2	CineWhite®	1.1	White	29.7	52.0	102.8"x7.5"x7.7"
ETB100HW2-E8	100"	16:9	49.0	87.2	CineWhite®	1.1	White	33.5	54.5	106.5"x7.5"x8.1"
ETB100HW2-E12	100"	16:9	49.0	87.2	CineWhite®	1.1	White	40.8	55.9	111.0"x7.7"x8.3"
ETB110HW2-E8	110"	16:9	53.9	95.9	CineWhite®	1.1	White	35.9	59.3	120.1"x8.3"x7.7"
ETB120HW2-E8	120"	16:9	58.8	104.6	CineWhite®	1.1	White	37.3	59.8	125.6"x8.1"x7.7"

## 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.



# PRODUCT WHITE PAPER

<http://www.elitescreens.com>



## Features & Benefits

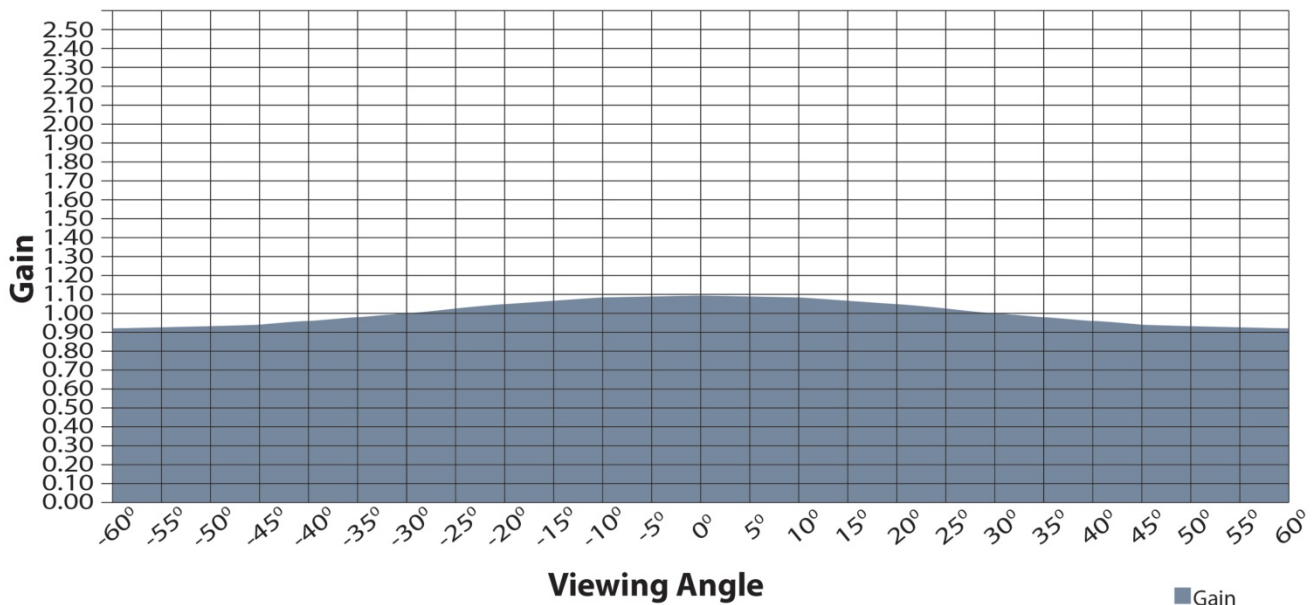
- Multi-layer PVC (Polyvinyl chloride) with texture and surface coating
- Gain: 1.1
- View Angle: 180° (90° ±LR)
- Full Lambertian Diffuser- no half gain drop
- Produces exceptional picture quality for any presentation
- Mildew Resistant
- Active 3D and 4K Ultra HD ready
- Surface can be cleaned with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

Specifications	
Thickness	0.27 mm
Weight	350 g/m <sup>2</sup>
Maximum Height	3.2 M (10 ft)
On-axis Gain	1.1
Half-Gain Angle	Does not reach half gain

## 3.2 Gain 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.**




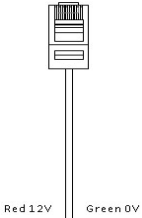



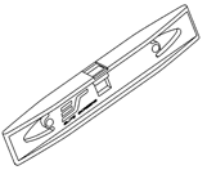
**4.3 Pre-Installation**

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**

<p><b>A. IR Remote</b></p> 	<p><b>B. RF Remote</b></p> 	<p><b>C. Wall switch control box</b></p> 	<p><b>D. 5-12 volt trigger cable</b></p> 
<p><b>E. IR extended “eye” receiver</b></p>	<p><b>F. Wireless 5-12v (3.5 mm) mono trigger cable</b></p>	<p><b>G. AAA batteries</b></p>	<p><b>H. Bubble leveler</b></p>
			

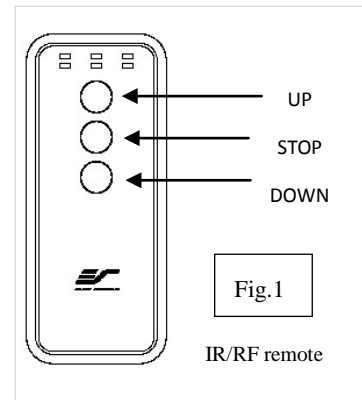
**4.5 Screen Operation**

**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 Evanesce Tab-Tension B**

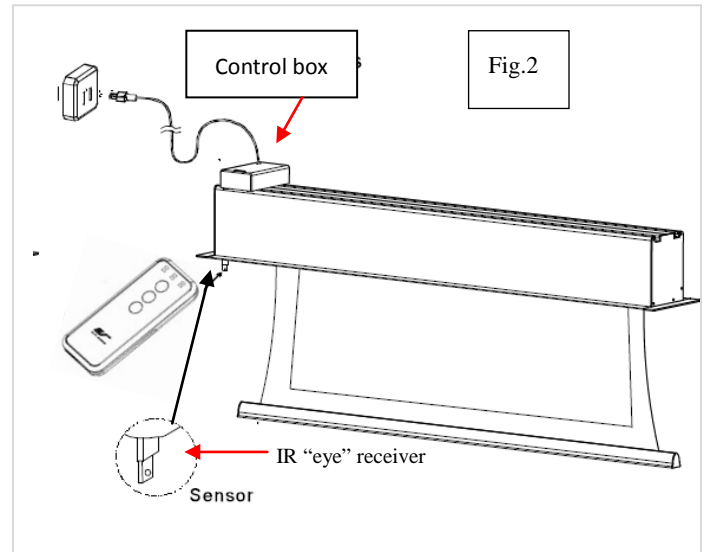
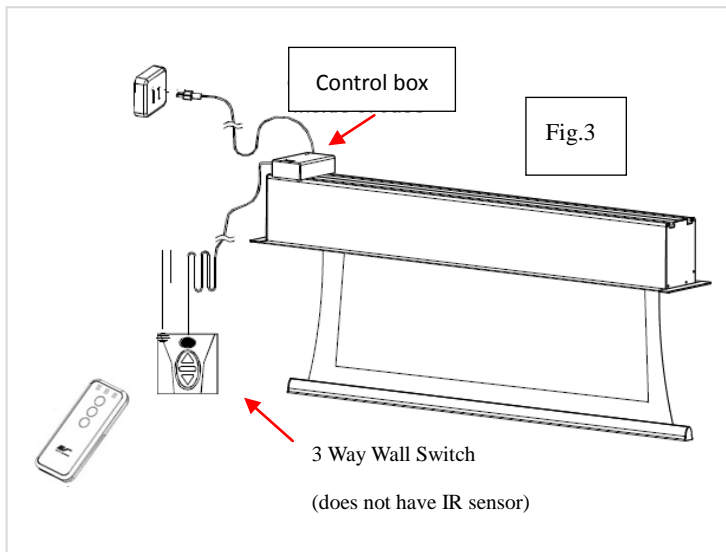
1. **IR remote control** (Item A, Fig 1): The Infrared functions by direct line of sight contact with a beam range of 30 feet. Aim the IR remote at the “eye” receiver once it has been connected to the control box’s RJ45 port.



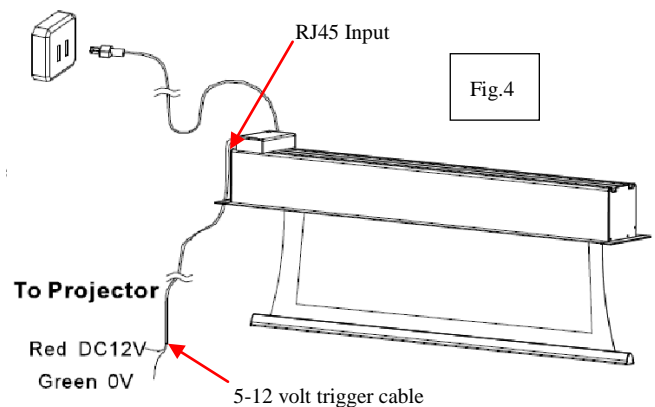
2. **IR “Eye” Receiver** (Item E, Fig 2): The IR “Eye” Receiver plugs directly into the control box’s RJ45 port to present a low profile line-of-sight control option for your IR remote control even in a recessed ceiling installation.

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.



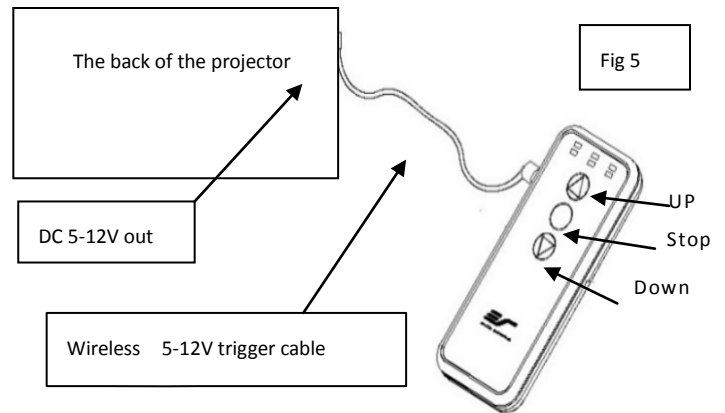
5. **5-12 volt trigger** (Item D, Fig 4): The built-in 5-12V trigger input allows your screen to synchronize its drop & rise with the projector’s power cycle. The screen deploys when the projector powers up and will retract when the projector powers down. The 5-12 volt RJ45 cable connects to your projector’s 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.




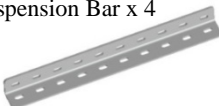







**Here’s how to set up your Wireless 5-12 volt trigger | Synchronization Instructions**

- 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 Above 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 

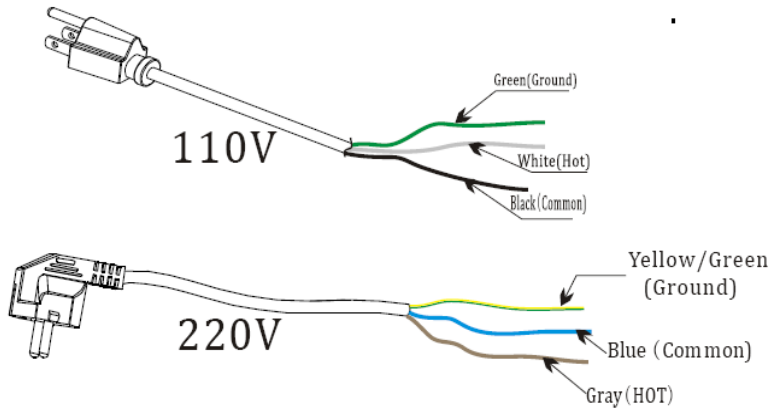


**4.7 Above Installation Instructions**

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

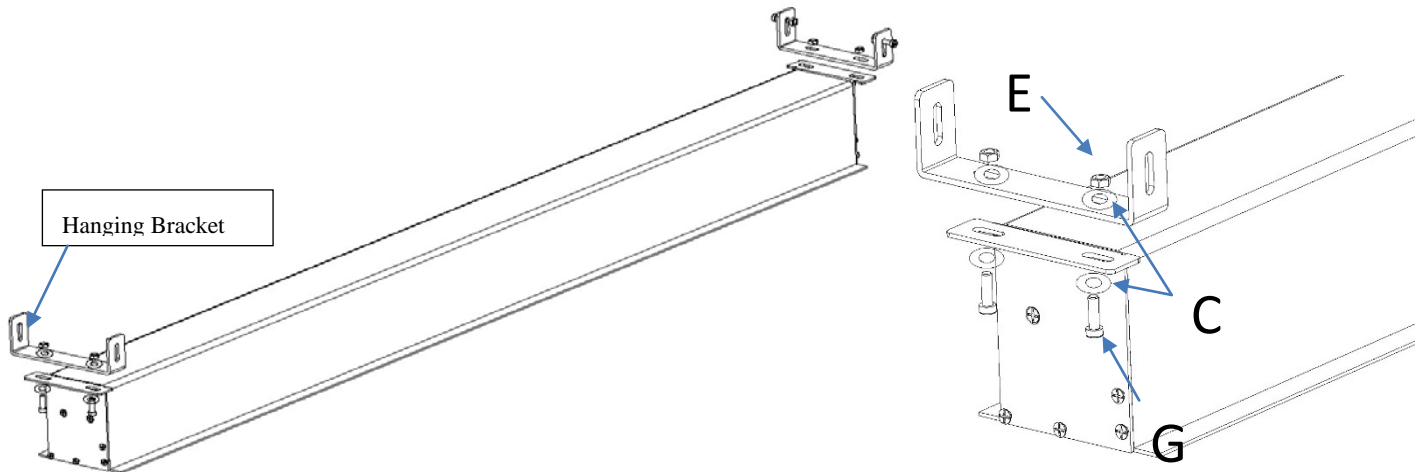
**Power**

The Evanesce Tab-Tension 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 for both 110v & 220v wiring information.

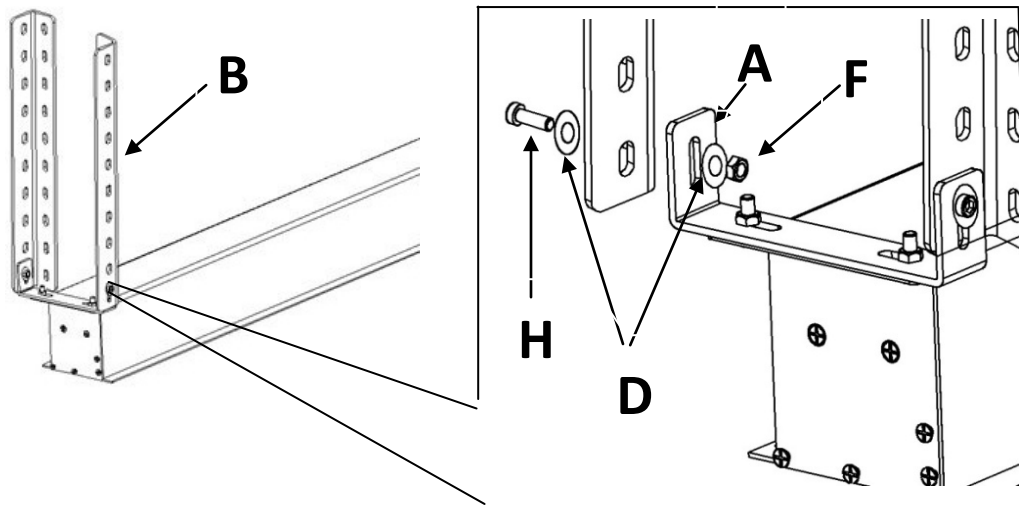


**Assembly**

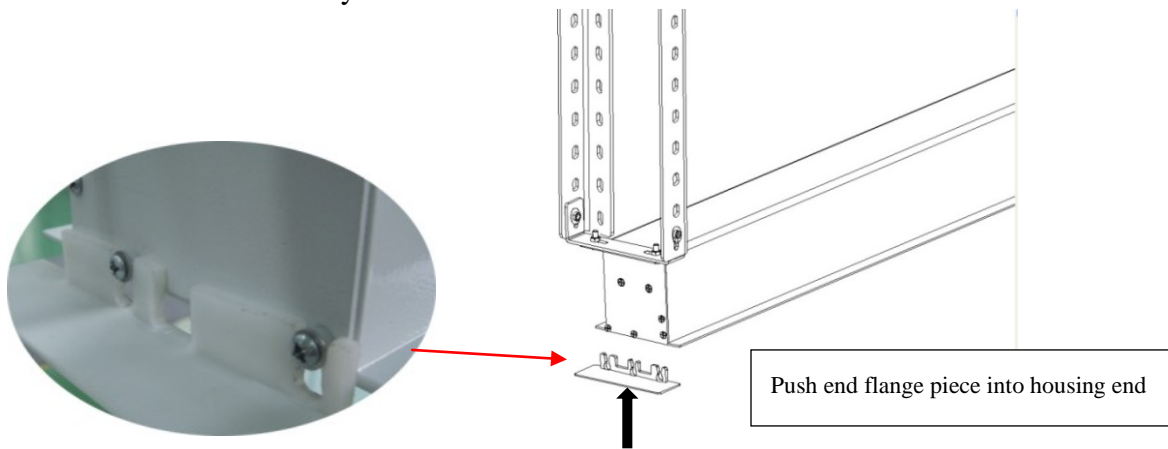
1. Place the **hanging bracket (A)** over the left and right side ends of the housing and secure each one using the **M8x40mm hex screw (G)**, **M8x16mmx1.5mm washers (C)** and **M8 nut (E)** as shown below.



2. 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 **M6x20mmScrew (B)**, **M6x13mmx2mmWasher (E)** and the **M6 Nut (F)**. Repeat the process for the other side.

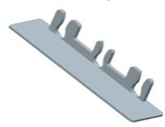





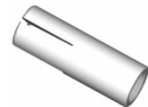



3. Insert the **end flange piece (C)** on the edge of the housing as shown below to complete the assembly. The screen is now ready for installation.



**4.8 Below Hardware Parts List**

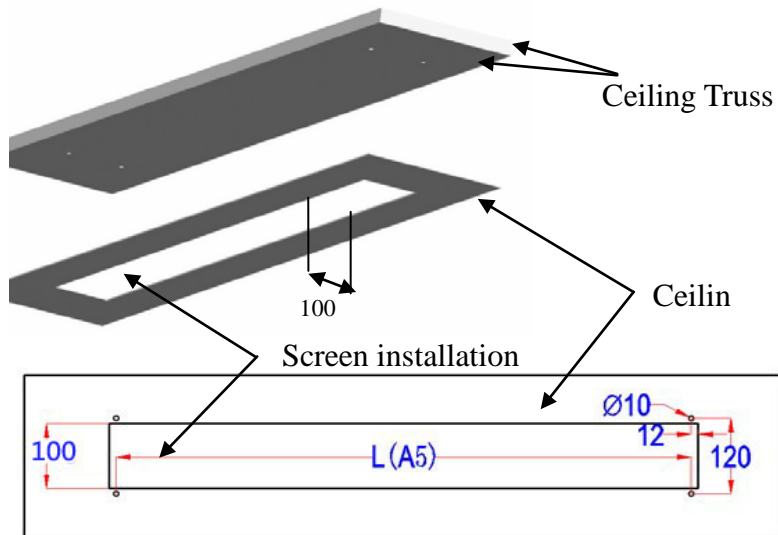
*Please make sure all parts listed below are included before proceeding with the installation.*

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 

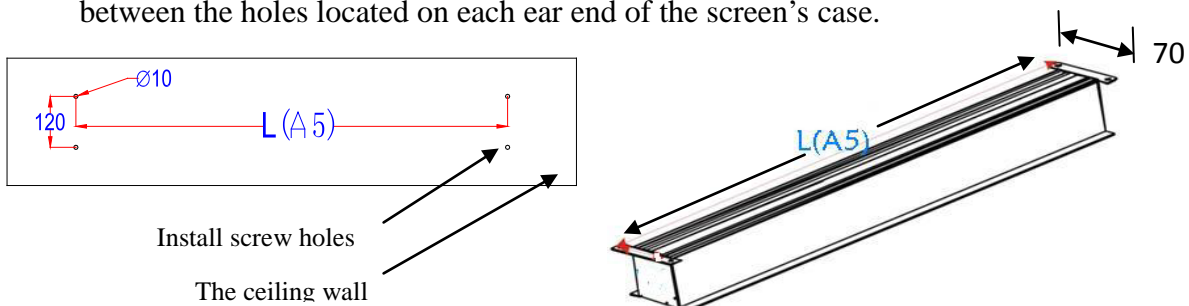
**4.9 Below Installation Instructions**

1. Measure and cut the ceiling installation slot:

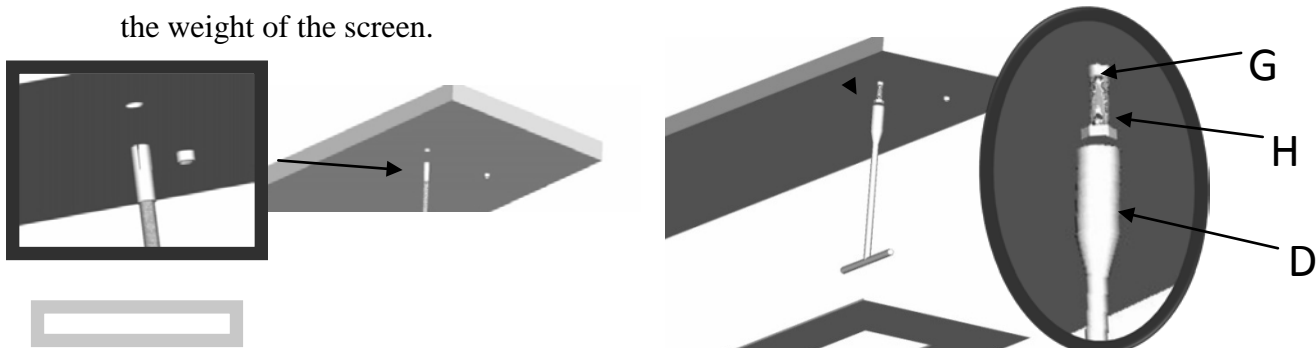
The width should not exceed 100mm and not less than the width of the screen's housing. Measure the length of your screen to determine the length.



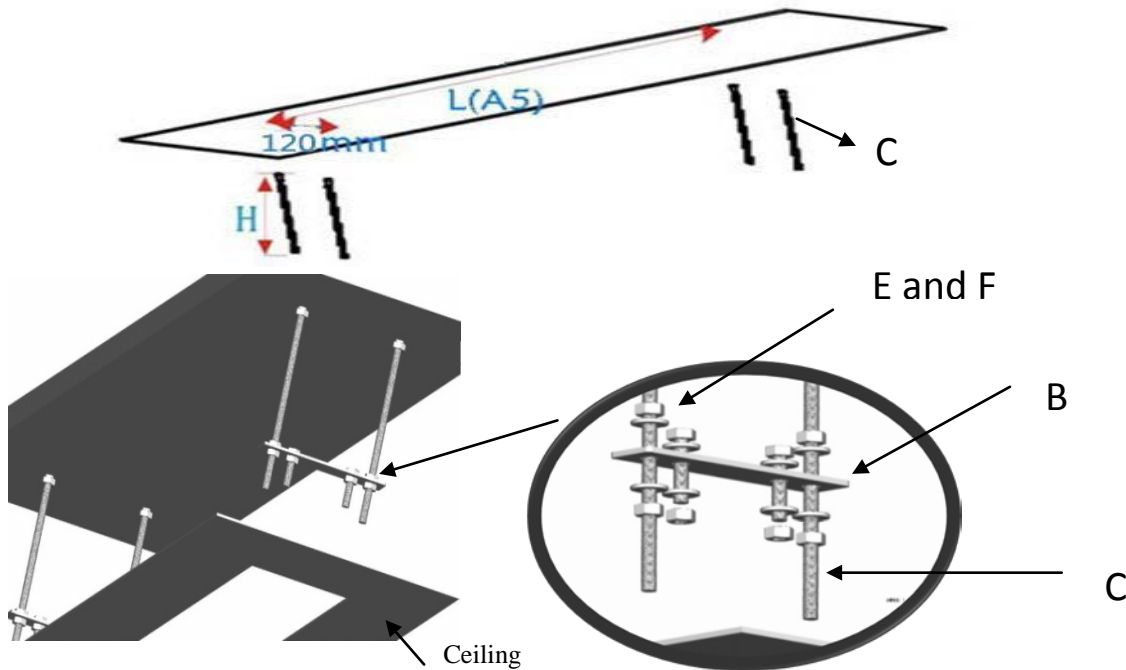
2. Drill 4 holes in the ceiling that correspond with the attachments on the various casing sizes. The width should be 120mm. The length of (A5) in the diagram below depicts the distance between the holes located on each ear end of the screen's case.



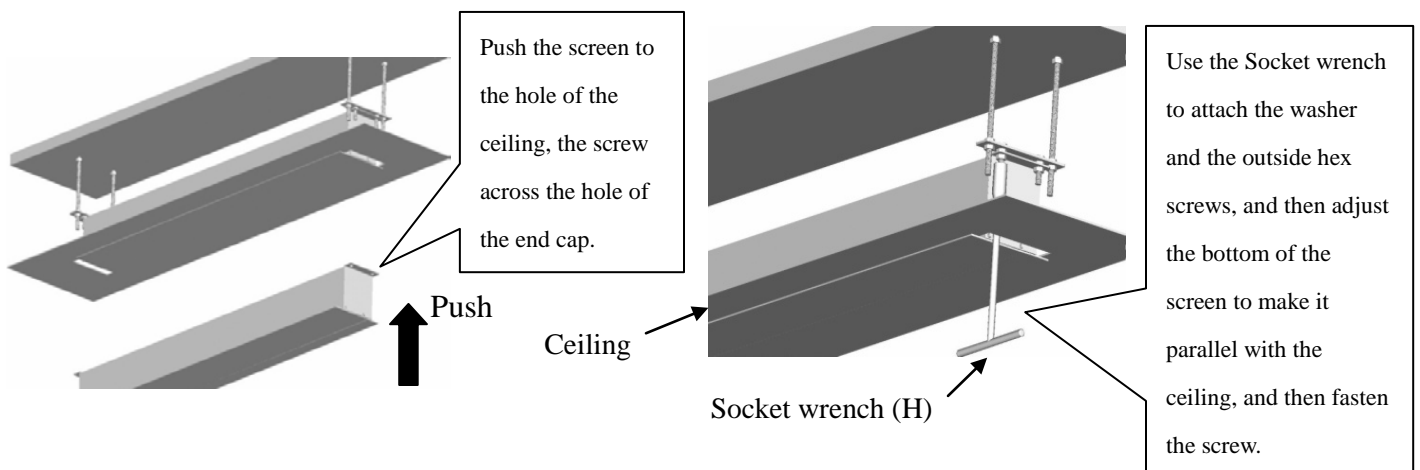
3. The **M8expanding bolts** (G) mount into thick wood beams, stone or concrete and will support the screen. Use the **Socket wrench** (D) to attach the **M8x40mm hexagonal screws** (H). The expanding bolts should be firmly tightened and tested to make sure that they will hold the weight of the screen.



4. 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.



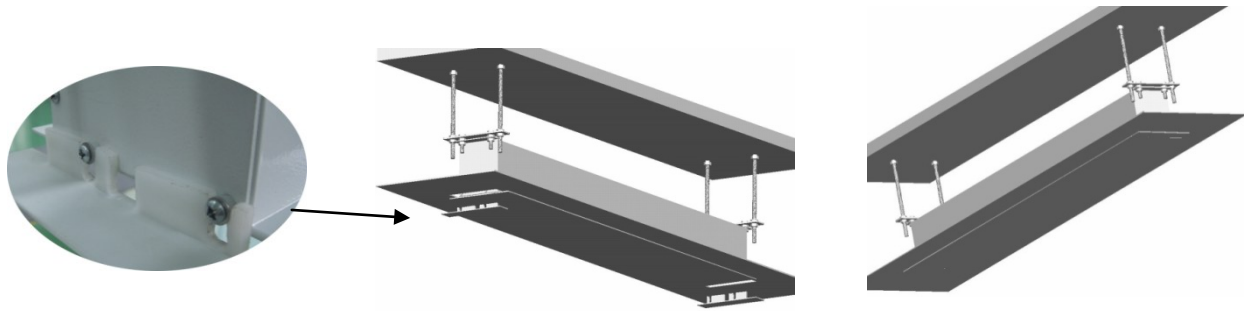
5. Push the screen up into the space. Use the **threaded rods** (C) to attach the screen assembly to the ceiling. The **hexagonal screws** (E) will connect the screen to the rest of the assembly. Once firmly in place; use the **nuts** (F) to ensure a firm connection. Use the **socket wrench** (D) to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

# PRODUCT WHITE PAPER

<http://www.elitescreens.com>



## Section 5: Product Specifications

### 5.1 Dimensions

#### 5.1.1 Below Ceiling Installation Dimensions

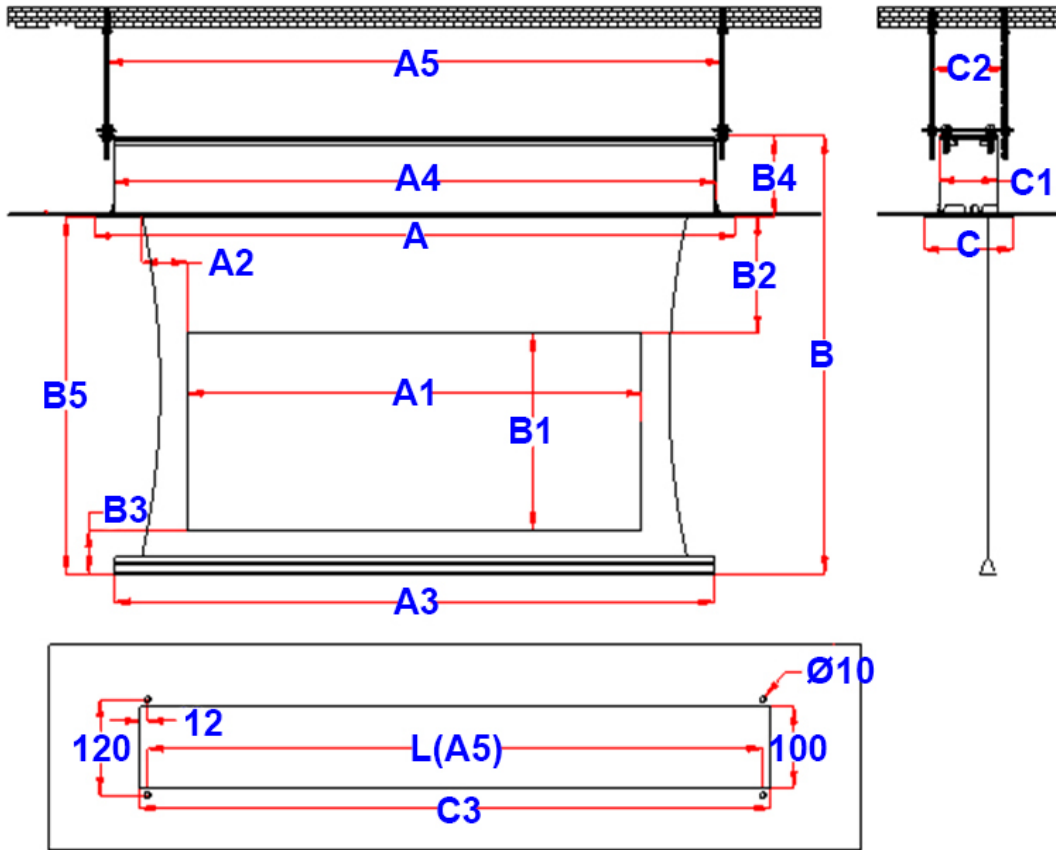
Model	Diag. Size	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	C	C1	C2	C3
Unit: Inches																
ETB92HW2-E12	92"	94.8	80.2	3.7	92.2	92.4	93.6	64.8	45.1	12	3.9	3.7	61.1	4.3	3.1	4.7
ETB100HW2-E8	100"	102.0	87.2	3.7	99.4	99.6	100.8	64.7	49.0	8.0	3.9	3.7	60.9	4.3	3.1	4.7
ETB100HW2-E12	100"	102.0	87.2	3.7	99.4	99.6	100.8	68.7	49.0	12.0	3.9	3.8	65.0	4.3	3.1	4.7
ETB110HW2-E8	110"	110.6	95.9	3.7	108.1	108.3	109.4	69.7	53.9	8.0	3.9	3.8	65.9	4.3	3.1	4.7
ETB120HW2-E8	120"	119.4	104.6	3.7	116.8	117.0	118.2	74.5	58.8	8.0	3.9	3.7	70.7	4.3	3.1	4.7
Unit: mm																
ETB92HW2-E12	92"	2408	2037	94	2342	2347	2377	1646	1146	305	99	94	1552	109	79	119
ETB100HW2-E8	100"	2590	2214	95	2525	2530	2560	1643	1245	203	100	95	1548	110	80	120
ETB100HW2-E12	100"	2590	2214	95	2525	2530	2560	1746	1245	305	100	96	1650	110	80	120
ETB110HW2-E8	110"	2810	2435	95	2745	2750	2780	1770	1370	203	100	97	1673	110	80	120
ETB120HW2-E8	120"	3032	2657	95	2967	2972	3002	1892	1494	203	100	95	1797	110	80	120

#### 5.1.1 Above Ceiling Installation Dimensions

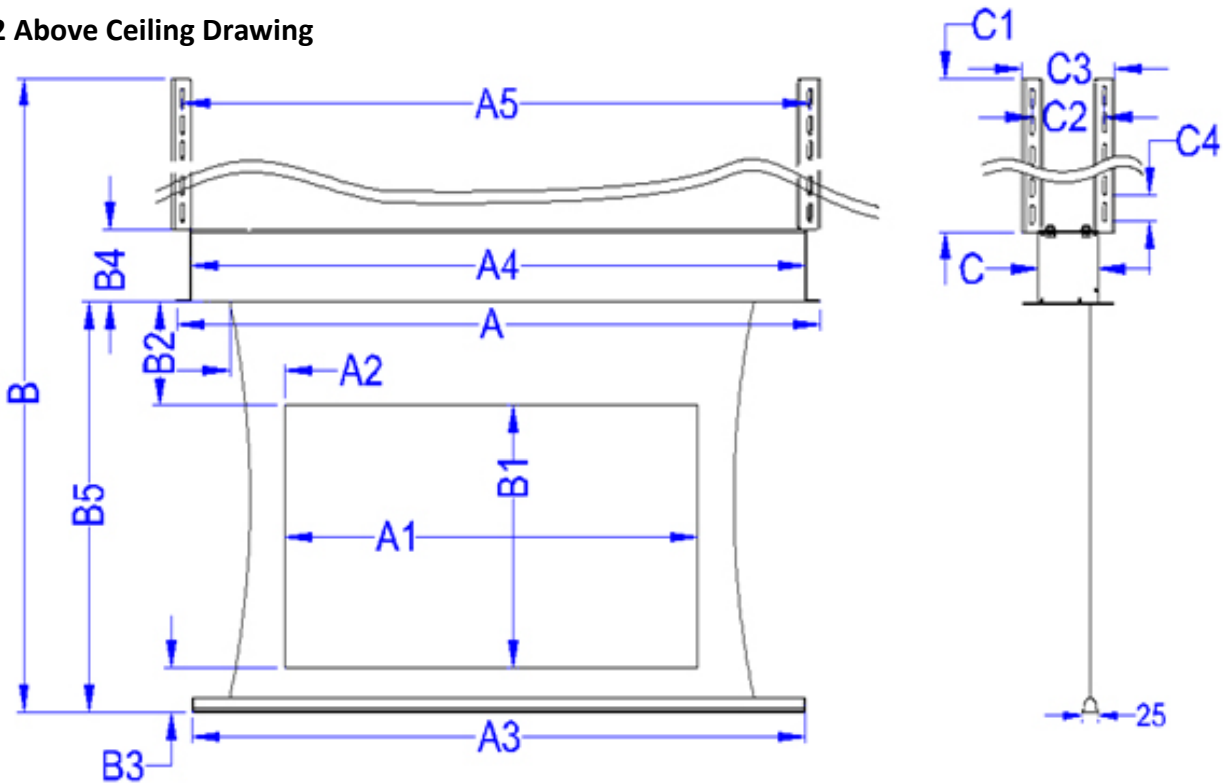
Model	Diag. Size	A	A1	A2	A3	A4	B	B1	B2	B3	B4	B5	C	C1	C2	C3	C4
Unit: Inches																	
ETB92HW2-E12	92"	94.8	80.2	3.7	92.2	92.4	93.6	101.2	45.1	12.0	3.9	3.7	61.1	3.1	36.4	5.7	7.1
ETB100HW2-E8	100"	102.0	87.2	3.7	99.4	99.6	100.8	101.1	49.0	8.0	3.9	3.7	60.9	3.1	36.4	5.7	7.1
ETB100HW2-E12	100"	102.0	87.2	3.7	99.4	99.6	100.8	105.1	49.0	12.0	3.9	3.7	65.0	3.1	36.4	5.7	7.1
ETB110HW2-E8	110"	110.6	95.9	3.7	108.1	108.3	109.4	106.0	53.9	8.0	3.9	3.7	65.9	3.1	36.4	5.7	7.1
ETB120HW2-E8	120"	119.4	104.6	3.7	116.8	117.0	118.2	110.9	58.8	8.0	3.9	3.7	70.7	3.1	36.4	5.7	7.1
Unit: mm																	
ETB92HW2-E12	92"	2407	2037	95	2342	2347	2377	2571	1146	305	100	95	1551	80	925	145	180
ETB100HW2-E8	100"	2591	2215	95	2525	2530	2560	2568	1245	203	100	95	1547	80	925	145	180
ETB100HW2-E12	100"	2590	2214	95	2525	2530	2560	2670	1245	305	100	95	1650	80	925	145	180
ETB110HW2-E8	110"	2810	2435	95	2745	2750	2780	2693	1370	203	100	95	1673	80	925	145	180
ETB120HW2-E8	120"	3033	2657	95	2967	2972	3002	2817	1494	203	100	95	1796	80	925	145	180

**5.2 Drawings**

**5.2.1 Below Ceiling Drawing**



**5.2.2 Above Ceiling Drawing**





**5.3 Pictures**

***Evanesce Tab-Tension B Series* Front View**



**Housing Detail**





## Life Style



## 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.

###