

# NewTechWood

CANADA



## DECORATIVE BEAMS

INSTALLATION GUIDE



---

PROFILES UH17, UH25 & UH26

# TABLE OF CONTENTS

2-3

IMPORTANT NOTES

DECORATIVE BEAM PARTS

4

5

INSTALLATION PROCEDURE

INSTALLATION WITH CLIP K33

6-8

9-10

TWO PIECES BEAM CLIPS

TWO PIECES CLIP INSTALLATION

11

12

EXPANSION AND CONTRACTION VALUES

## IMPORTANT

### **READ ALL SECTIONS BEFORE YOU START**

Prior to installing any composite product, it is recommended that you check with local building codes for any special requirements or restrictions. The diagrams and instructions outlined in this guide are for illustration purposes only and are not meant or implied to replace a licensed professional. Any construction or use of NewTechWood must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction and use of this product.

**Ensure that the delivered product matches the order (color, model, size, quantity, accessories); inspect each piece before installation.**

**Do not install a product that appears or is believed to be defective.**

**A defective product will not be covered by the warranty if it is installed.**

### **Stocking**

NewTechWood decorative beams are a finished product. Beams **MUST** be stored flat and off the ground prior to installation. NewTechWood recommends storing on pallets.

NewTechWood products **MUST** be kept dry and stored in a covered area. Material on-site must be covered with a tarp before installation. Moisture saturation before installation may result in swelling, shrinkage or board damage. Do not install saturated boards.

NewTechWood is not responsible for damage caused by improper storage and handling of the NewTechWood product.

### **Safety**

When dealing with any type of construction project, it is necessary to wear appropriate safety equipment to avoid any risk of injuries. NewTechWood recommends, but is not limited to the following safety equipment, when handling, cutting, and installing NewTechWood: gloves, respiratory protection, long sleeves, pants, and safety glasses.

### **Tools**

Standard woodworking tools may be used. Begin each project with a new blade. It is recommended that all blades have a carbide tip. Standard stainless steel or acceptable coated deck screws are recommended.

## IMPORTANT

### READ ALL SECTIONS BEFORE YOU START

#### Planning

Plan a layout for your beams before starting it to ensure the best possible product for your project. Building codes and zoning ordinances generally apply to permanent structures, meaning anything that is anchored to the ground or attached to the house. So nearly every kind of material requires permits and inspections from a local building department. We recommend drawing out a site plan of your proposed project that you intend to do to minimize errors.

Pressure wash on a scrap piece of material before using a pressure washer on the profiles to make sure that your settings will not damage the Ultrashield coating.

#### Construction

NewTechWood UltraShield is NOT intended for use as columns, support posts, joist stringers, support against a force, or other primary load-bearing members. NewTechWood must be supported by a code-compliant substructure. While NewTechWood products are great for retrofits.

#### Heat and Fire




Excessive heat on the surface of NewTechWood products from external sources such as but not limited to fire or reflection of sunlight from energy efficient window products. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause NewTechWood products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering.

#### Fasteners



When fastening NewTechWood's products all screws that are face fastened should always be driven in at a 90 degree angle to the cladding surface. Toe nailing/screwing should never be done to the products.

# Decorative Beams

- BEAMS

PROFILE	DESCRIPTION	PART
UH17	60 x 42 mm (2,4 x 1,7 in) Available in 16 feet. <i>Teak and IPE: also in 12 feet upon availability</i>	
UH25	100 x 52 mm (3,9 x 2,0 in) Available in 16 feet. <i>Teak and IPE: also in 12 feet upon availability</i>	
UH26	120 x 62 mm (4,7 x 2,4 in) Available in 16 feet. <i>Teak and IPE: also in 12 feet upon availability</i>	

- ACCESSORIES

PROFILE	DESCRIPTION	PART
K33	Hidden Installation Clip	
EC-UH	End Caps	

# Decorative Beams

---

- INSTALLATION PROCEDURE

**THE BEAMS ARE NOT STRUCTURAL AND MUST BE ATTACHED EVERY 40 INCHES MAXIMUM**

NewTechWood screening profiles are designed for decorative and privacy screening applications only.

**They are NOT RECOMMENDED TO BE USED FOR THE FOLLOWING:**

• Safety Balustrading • Structural Elements • Applied directly to solid surfaces

While this manual will showcase examples of attachments with our beams, the versatility of our beams allows for countless installation methods.

However, the installation principles are quite simple and consistent, regardless of the application.

**MAXIMUM CENTER-TO-CENTER SPAN BETWEEN ATTACHMENTS/CLIPS: 40 inches**

**MINIMUM DISTANCE FROM EDGE BOARDS FOR FASTENING: 3/4 inches**

**MINIMUM CLEARANCE FROM END OF BOARD TO FIX THE STRUCTURE: 1/4 inches**

**MINIMUM END TO END BUTT JOINT: 1/4 inches**

**MAXIMUM OVERHANG FROM LAST ATTACHMENT /CLIP: 8 inches**

## End Caps

Close off both ends of the hollow boards by installing matching color end cap with silicon glue.  
Or install the end cap after cutting off the desired length.



# Decorative Beams

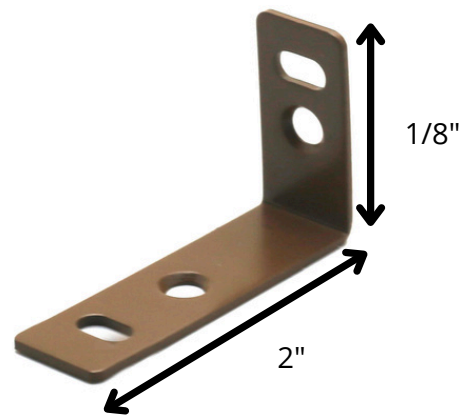
- INSTALLATION WITH CLIP K33

**THE BEAMS ARE NOT STRUCTURAL AND MUST BE ATTACHED EVERY 40 INCHES MAXIMUM**

- 201 Stainless Steel with powder coating
- One design to fit vertical and horizontal installation
- Each clip has 2x oval holes and 2x circle holes
- M4 x 30mm stainless steel screws & pre-drilled recommended

**Circle holes**  
Install the clip onto the wall  
or joist

**Oval holes**  
Install the profile with a pre-drilled hole.  
The oval hole allows expansion and  
contraction.



## *How it works for horizontal application*

Above eye level  
to install the K33 at the top of the boards



Approx  
5'3" - 5'11"

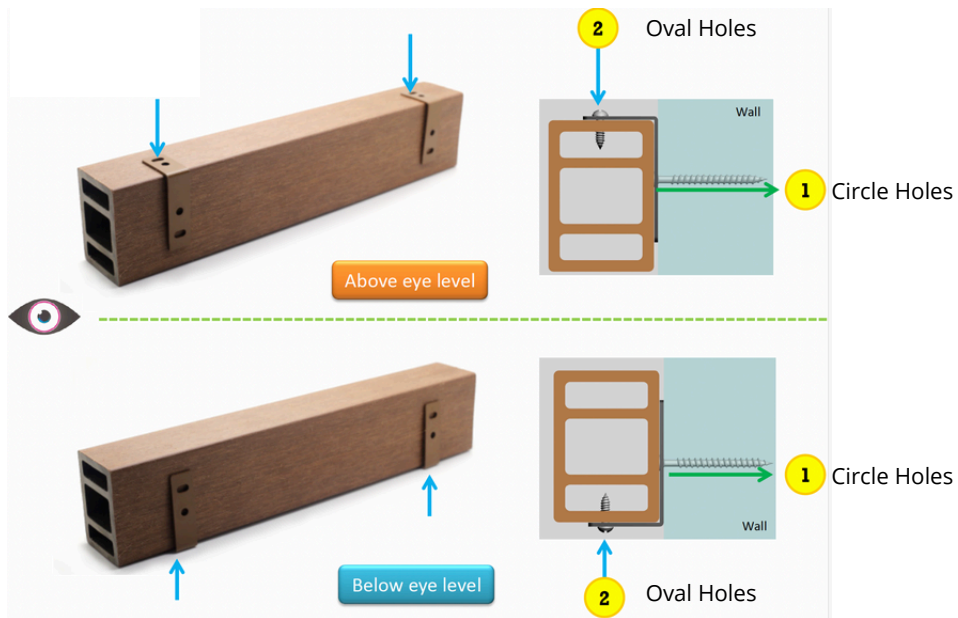
Below eye level  
to install the K33 at the bottom of the boards



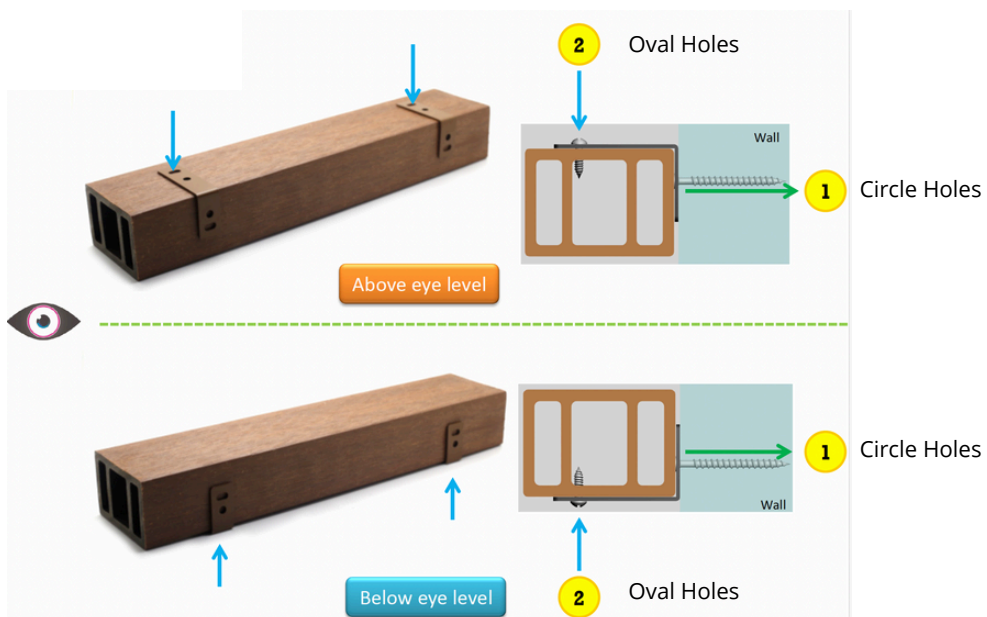
# Decorative Beams

- INSTALLATION WITH CLIP K33

## Pergola Installation (beams standing up)



## Vertical Installation (beams flat laying)





# Decorative Beams

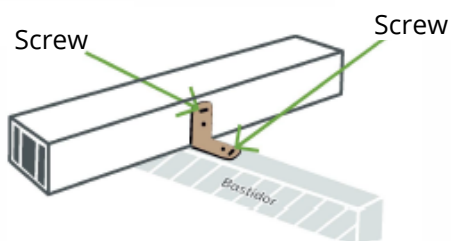
- INSTALLATION WITH CLIP K33

## Pergola Installation

For the installation, you have two options: place the frame above the beam or below it.

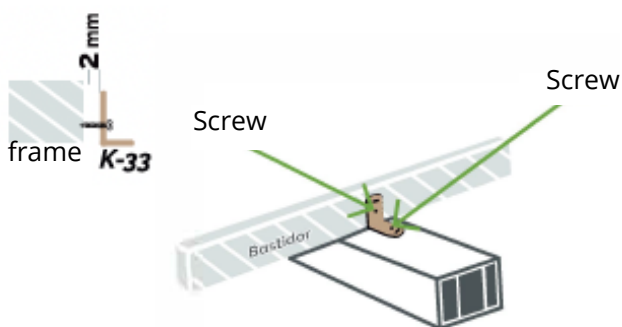
### A. If the beam goes above the frame:

1. Screw the K-33 clip through the circular hole to the frame.
2. Screw the K-33 clip through the oval hole to allow for the natural expansion and contraction of the beam.



### B. If the beam goes below the frame:

1. Screw the K-33 clip through the circular hole to the frame and to the beam.
2. Screw the K-33 clip through the oval hole to the frame, leaving a 2 mm gap to allow for the natural movement of the beam.



**Note: Secure the UH26 beam with two K-33 clips for proper installation.**

# Decorative Beams

- TWO PIECES BEAM CLIPS

WHS06-L (For Vertical Installation)				
Model	Description	Material	Picture	Installation
WHS06-L	Locking Clip	Stainless Steel SUS 304 (Black Powder Coated)		<p>WHS06-L</p> <p>Joist</p> <p>LOUVER PROFILE</p>

WHS06-M (For Vertical Installation)				
Model	Description	Material	Picture	Installation
WHS06-M	CEC Clip	Stainless Steel SUS 304 (Black Powder Coated)		<p>WHS06M</p> <p>Joist</p> <p>LOUVER PROFILE</p>

# Decorative Beams

- TWO PIECES BEAM CLIPS

WHS07-L (For Horizontal Installation)				
Model	Description	Material	Picture	Installation
WHS07-L	Locking Clip	Stainless Steel SUS 304 (Black Powder Coated)		

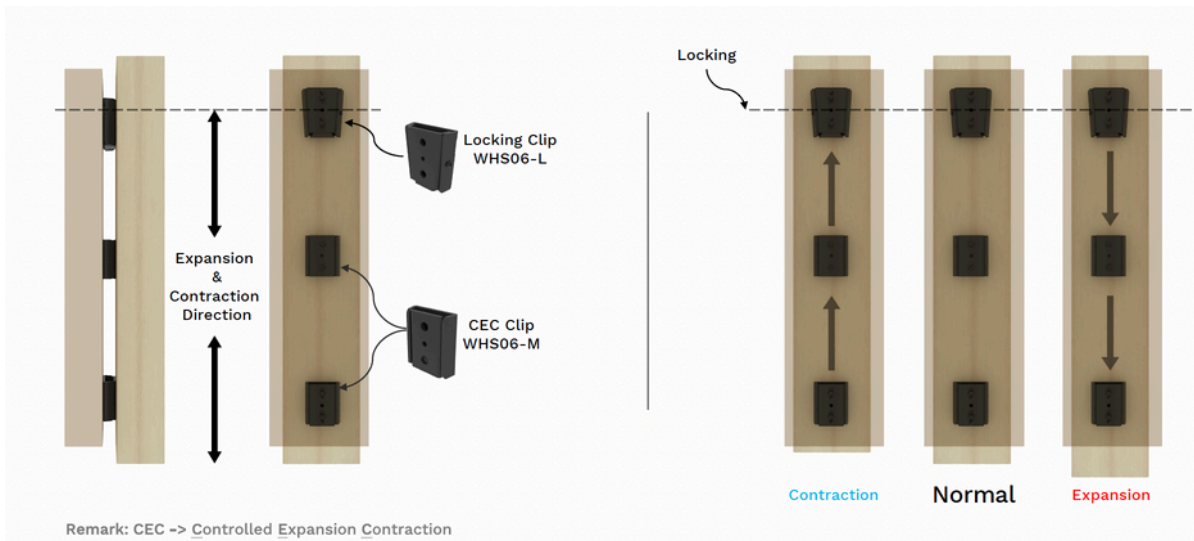
WHS07-M (For Horizontal Installation)				
Model	Description	Material	Picture	Installation
WHS07-M	CEC Clip	Stainless Steel SUS 304 (Black Powder Coated)		

# Decorative Beams

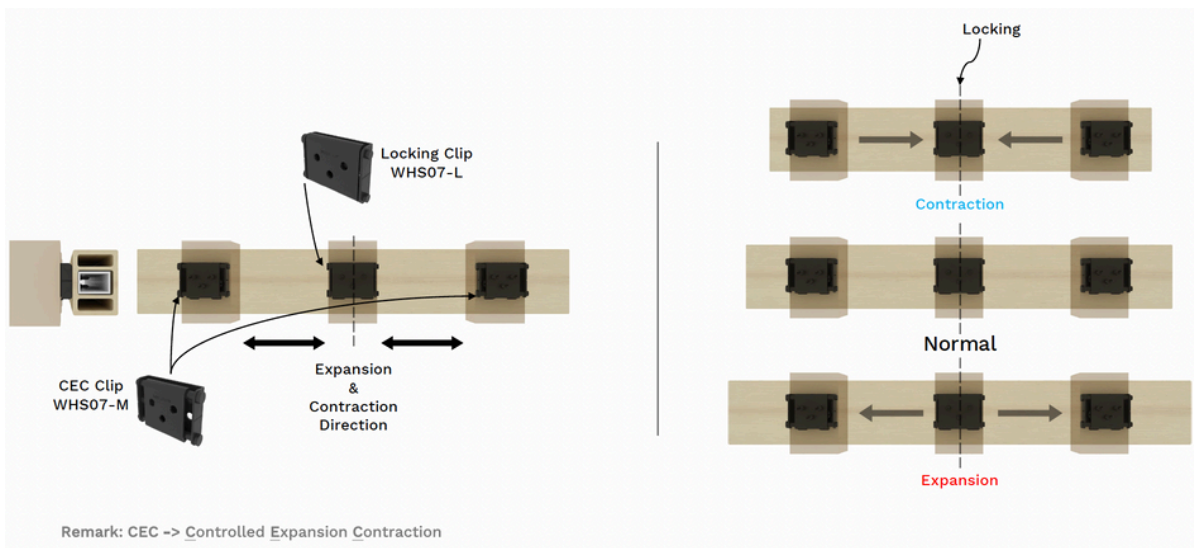
- TWO PIECES CLIP INSTALLATION

THE BEAMS ARE NOT STRUCTURAL AND MUST BE ATTACHED EVERY 40 INCHES MAXIMUM

## Vertical Installation



## Horizontal Installation



# Decorative Beams

---

- EXPANSION AND CONTRACTION VALUES

NewTechWood siding beams will experience expansion and contraction with changes in temperature. Expansion and contraction are most significant where extreme temperature changes occur. **Fastening the beams according to the gapping requirements noted in the following table accommodates for this movement.**

## Expansion and Contraction table of values for Canada

Installation temperature (°C)	12 feet (3.66 m)	16 feet (4.88 m)
0	3/16 in	1/4 in
5	3/16 in	1/4 in
10	1/8 in	3/16 in
15	1/8 in	3/16 in
20	1/16 in	1/8 in
25	1/16 in	1/16 in
30	3/64 in	1/16 in

**Note: If you are still unsure of what gapping to use, contact the manufacturer and they will give you the correct gapping requirements based on your environment and area.**

**The beams are non-structural and must be attached every 40 inches maximum.**



# DECORATIVE BEAMS

## INSTALLATION GUIDE

---



NewTechWood is a registered trademark of NewTechWood Corporation. To obtain a copy of the most current version of this installation guide, visit us online at [www.newtechwood.ca](http://www.newtechwood.ca)

**NewTechWood**  
CANADA

V2024-07-CAD