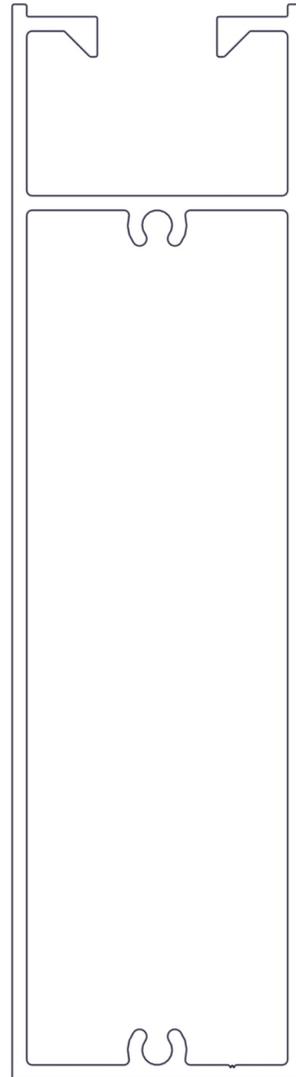
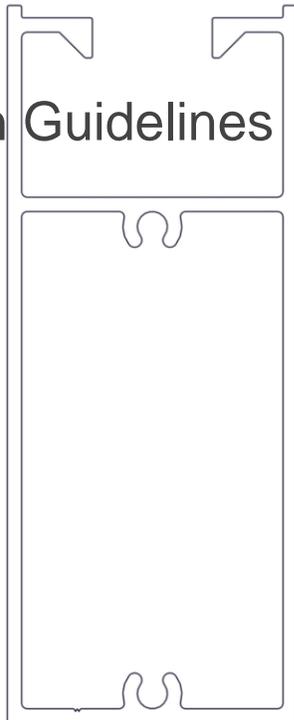




**LONGBOARD®**  
INSPIRING ARCHITECTURE

# Dauntless Interior Ceiling System

Installation Guidelines



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## Material Specifications

### Finishes

- Longboard Products are available in a wide range of woodgrains and solid colors
- Custom solid colors are available upon request.

All Longboard Products are produced 1" (25mm) oversized, as one end is drilled for the coating process, and both ends have 1/2" (12mm) of masking tape (woodgrains only) which must be cut off for best results.

### Material Ordering & Delivery

- 
- **Packaging:** Dauntless Baffles are sold in sizes of 1 5/8" x 4" & 6" x 24' lengths  
End caps are sold by the box: 20 caps/bx.
- 
- **Ship/Receiving:** Most Popular Finishes -ready to ship within 1 week  
Additional Finishes -ready to ship within 14 weeks  
Delivered on 24' (7.3m) long skids weighing up to 2000 lbs. A mechanical lift with forks is required on site to receive the order.
- 
- **QC:** Always inspect the delivery for damage and contact LB ASAP if there are any issues: [info@longboardproducts.com](mailto:info@longboardproducts.com) or 1-800-604-0343 and include your PO# and any pictures if possible. Mark the delivery receipt as "damaged" and accept the delivery as-is. Longboard is not responsible for the installation of blemished or damaged material.

### Storage & Handling

Be sure to store the material flat, keep it dry, safe & secure and remain in unopened cartons until ready to be installed. See **Appendix for proper handling and care instructions.**

### Cleaning Recommendations

- Initial and periodic cleaning for best looking product
- Basic methods use a combination of moderate water pressure, soft sponge/brush and a mild detergent (Safe for your hands, safe for the product)

⚠ NEVER use aggressive, acid or alkaline cleaners on Longboard finishes. Do not use cleaners containing Trisodium Phosphate, Phosphoric Acid, Hydrochloric Acid, Hydrofluoric Acid, Fluorides, or any other compound that is known to react with metal.

**\*See *Cleaning Guide for full requirements & cleaning schedule:***  
[longboardproducts/resources/care-maintenance.com](http://longboardproducts/resources/care-maintenance.com)

### Warranty

Upon substantial completion of the project, register for warranty online here: [longboardproducts.com/warranty](http://longboardproducts.com/warranty)

⚠ Registration is required for the warranty to be in effect.

## Graffiti Removal

**Standard Woodgrain**  
 Use Standard soap & water only

**D2000 Solid Color**

	Prosoco Cleaner	MEK Solvent
Permanent Marker	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Oil Based Spray Paint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water Based Spray Paint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Adhesive Tape	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

MEK Solvent

Prosoco Anti-Graffiti Cleaner

**SPECIAL ORDER - EXT. LEAD TIMES CONTACT LB**

**Anti-Graffiti High Gloss Woodgrain**

	MEK Solvent
Permanent Marker	<input checked="" type="checkbox"/>
Oil Based Spray Paint	<input checked="" type="checkbox"/>
Water Based Spray Paint	<input checked="" type="checkbox"/>
Adhesive Tape	<input checked="" type="checkbox"/>

MEK Solvent

Note: Cleaning the surface with a cleanser that is not diluted as per instructions may result in damage to the coating.

## Components

### Components (Typical)

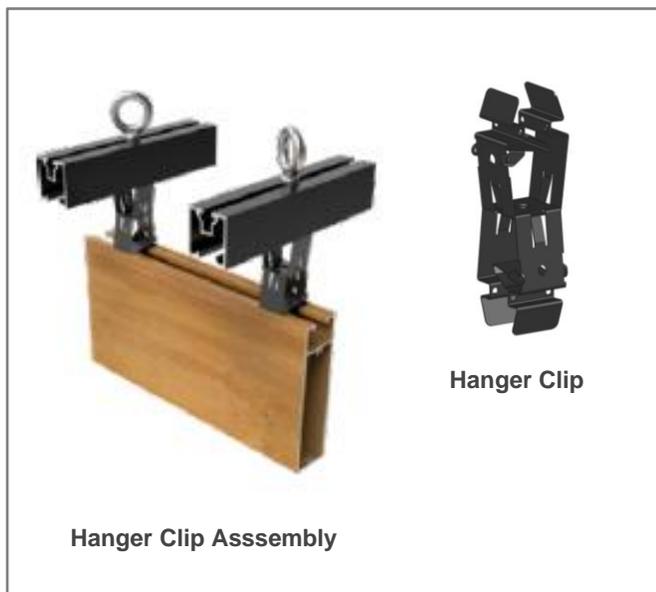
Longboard Dauntless Interior Ceiling System consists of a Baffle, End Cap, Hanger, Rail, and Eyebolt. For all LB components go to [longboardproducts.com](http://longboardproducts.com).

## Dauntless System

Dimensions	Product	12'	24'	End Caps (20/box)
1-5/8" x 4"	Beam	2X4CB.145	2X4CB.289	2BEC.4
1-5/8" x 6"	Beam	2X6B.145	2X6CB.289	2BEC.6

### Hanger Bracket Mounting System

Product	Kind	Qty	SKU
Side Rail	24' Carrier Rail	1	2CBSR.289
Beam Spline Connection Top	Accessory	1	BSCT.6
2" Hanger Bracket	Bracket	1	CBHB.2
4" Hanger Bracket	Bracket	1	CBHB.4
6" Hanger Bracket	Bracket	1	CBHB.6
8" Hanger Bracket	Bracket	1	CBHB.8
10" Hanger Bracket	Bracket	1	CBHB.10
12" Hanger Bracket	Bracket	1	CBHB.12



### Clip Mounting System

Product	Kind	Qty	SKU
Single Rail <sup>A</sup>	24' Carrier Rail	1	CBR.289
Double Rail <sup>A</sup>	24' Carrier Rail	1	CBDR.289
1-1/2" Single Hanger Clip	Clip	20, box	HCS.2
3" Hanger Clip	Clip	20, box	HC.3
Eye Bolt with T-Nuts	Attachment	20, box	CBEB.N20

<sup>A</sup>Includes 7 Eye-Bolts with T-Nuts



## Tools/Cutting/Fastening

### Tools

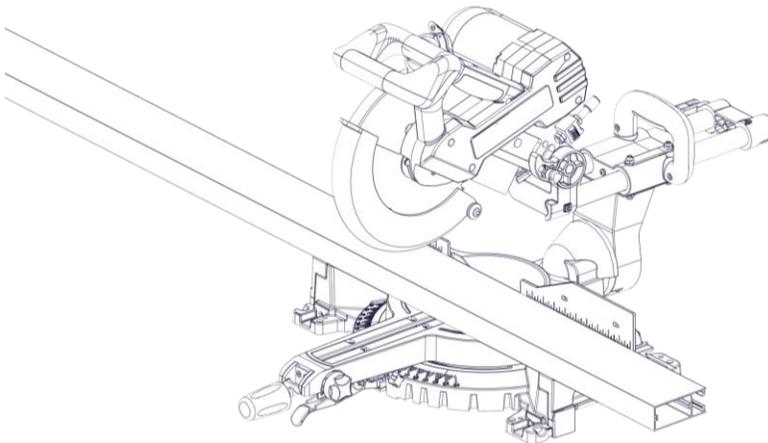
Commonly used tools for Dauntless install.

<p>Miter Saw with Carbide Metal Blade Non-Ferrous 60-80T (for aluminum)</p>	<p>Laser Level</p>	<p>Chalk Line or String Line</p>	<p>Tape Measure</p>
<p>Level</p>	<p>Rubber Mallet (or Hammer)</p>	<p>Paint Pen</p>	

### Cutting

⚠ Always be sure to wear appropriate PPE: eye & hearing protection.

Cut using a Miter Saw/Table Saw and trim the taped/drilled ends of all stock length material by at least **1/2" (12mm)** each end and discard.



⚠ DO NOT Install Dauntless Baffles without trimming the ends.

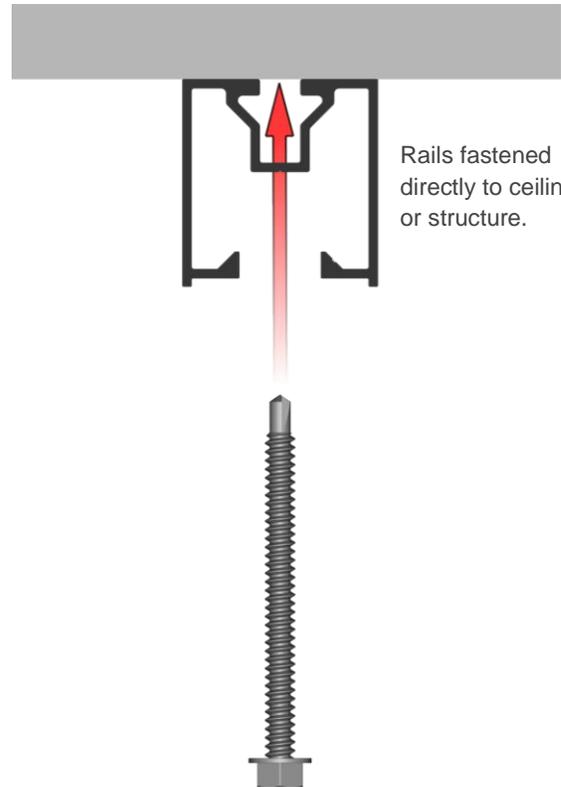
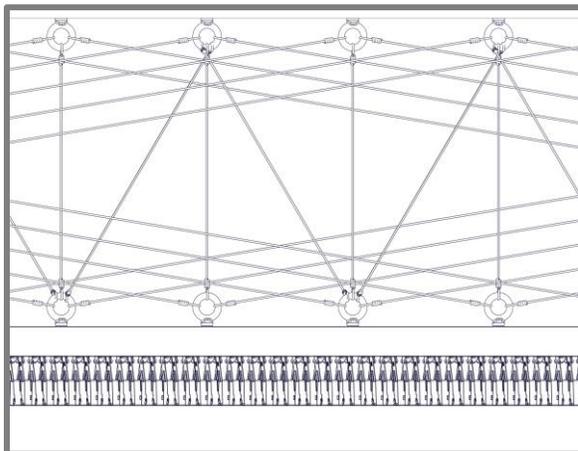
### Fastening options

Longboard Dauntless system consists of Baffles attached to Rails which are hung from a structure above.

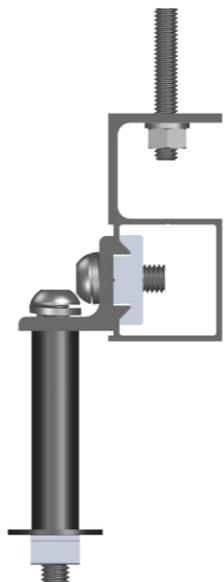
Typical fastening methods: (by others)

- Wire Attachment to anchors
- Threaded Rod to anchors
- Rails directly attached to the ceiling/structure
- Half Hanger Clip attached directly to the ceiling/structure

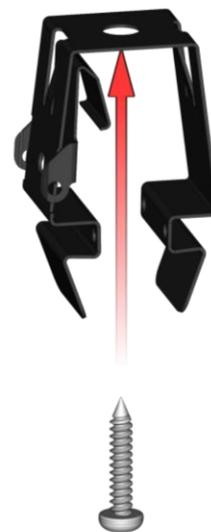
**⚠ All fasteners should be compatible with the substrate type. Fasteners should be anchored into a solid secure framing member.**



Rails fastened directly to ceiling or structure.



Side Rail hung via Threaded Rod.



Half Hanger Clip fastened directly to ceiling or structure.

Half hanger clip is 1.5" from attachment to Ceiling Baffle.

## System Install

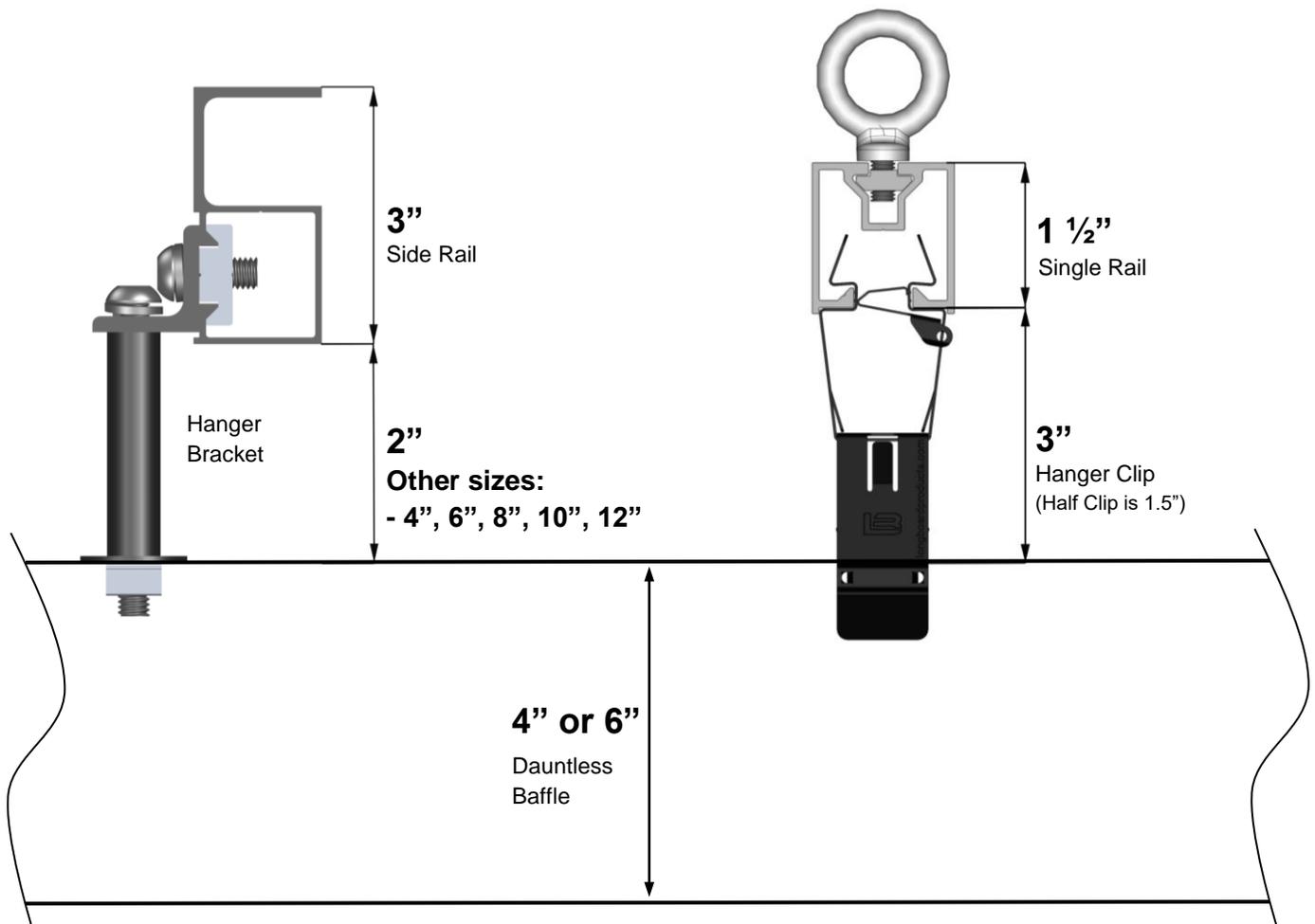
### Install details

#### Typical dimensions and drop depths

Baffle	Width	Depth	Length	Weight(lbs/LF)
4"	4" (101.6mm)	1 5/8" (41.3mm)	12'/24'	1.2
6"	6" (152.4mm)	1 5/8" (41.3mm)	12'/24'	1.6

Carrier Rail	Width	Depth	Length	Weight(lbs/LF)
Single Rail	1.5" (38mm)	1 5/8" (41.3mm)	12'/24'	0.73
Side Rail	3" (76mm)	1 5/8" (41.3mm)	12'/24'	0.94

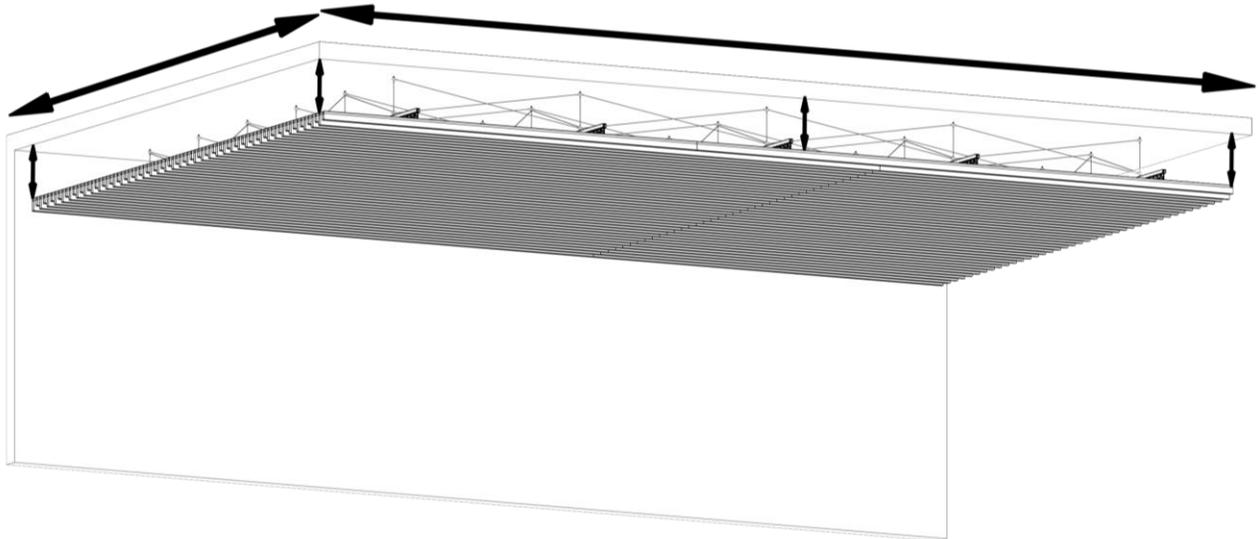
Note: Dimensions and weights are approx. and should be confirmed for precise measurements.



## System layout

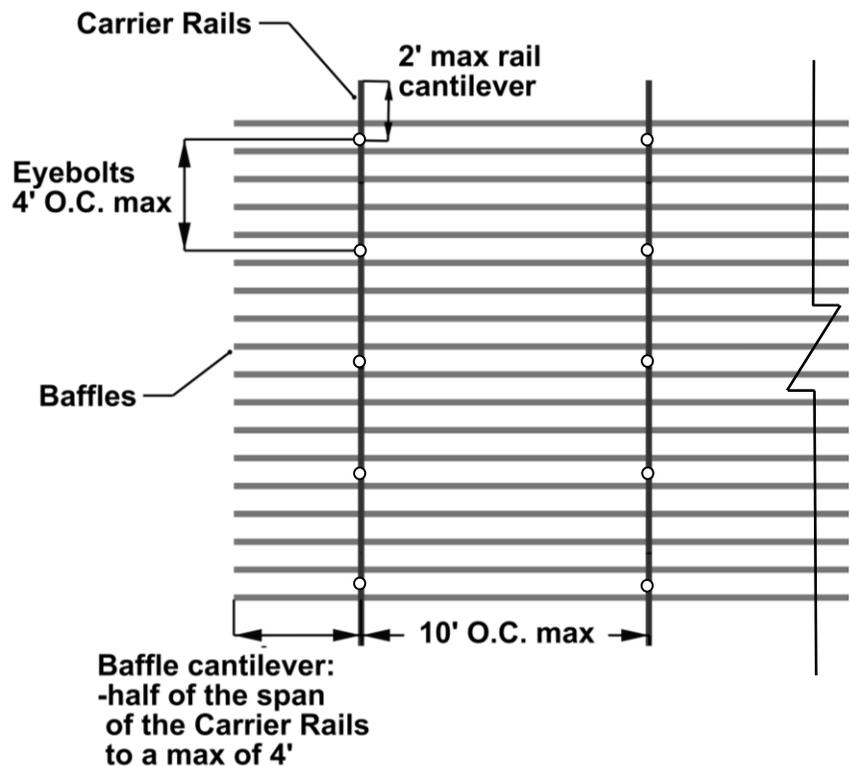
### Typical layout

Measure and layout your ceiling system taking into consideration corners, bends and drop depths from ceiling. Make sure to mark and level out the drop depth of the Rails so they line up with the install of the Dauntless Baffles.



- Carrier Rails @ 10' O.C. max spacings (2' max rail cantilever)
- Eyebolts @ 4' O.C. max spacings
- Hanger Clip placed at desired Baffle spacing
- Must use at least two attachment points per Baffle and Rail

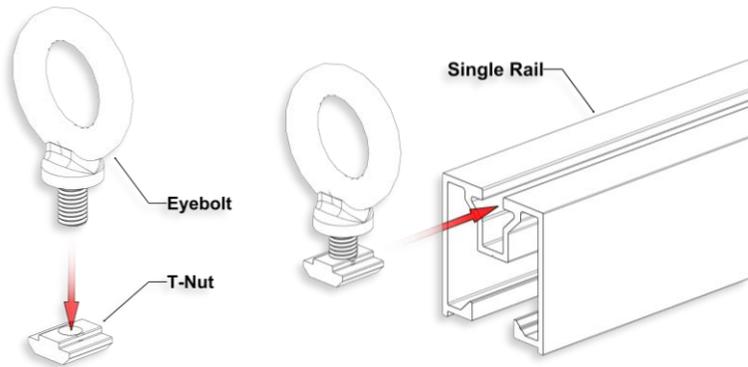
**⚠ Note:** See **Appendix** for allowable attachment span. **Tables 1 & 2.**



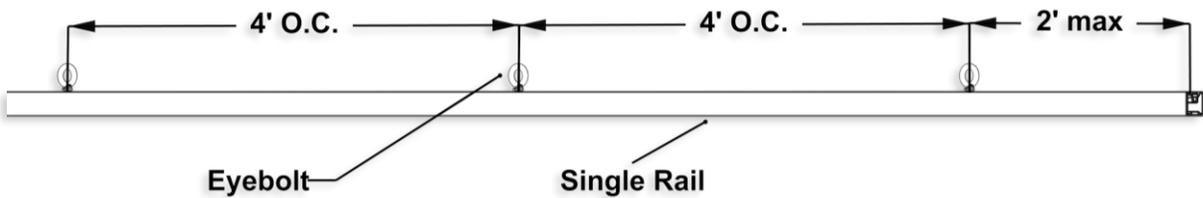
### Install Hanger Clip system

#### Step 1 -Eyebolt Install

Measure and cut Rails for the required area. Measure and install Eyebolts every 4' O.C. max with a 2' max cantilever. Slide the Eyebolt and T-Nut onto each Rail and tighten the Eyebolt once in position.

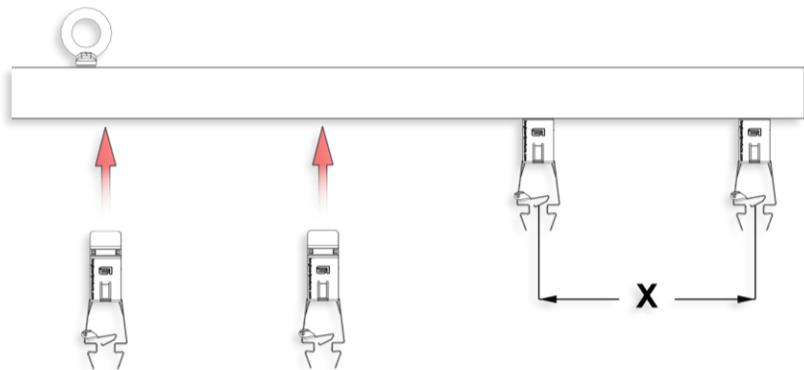


**⚠ Note:** Tighten Eyebolt all the way so it is not loose.

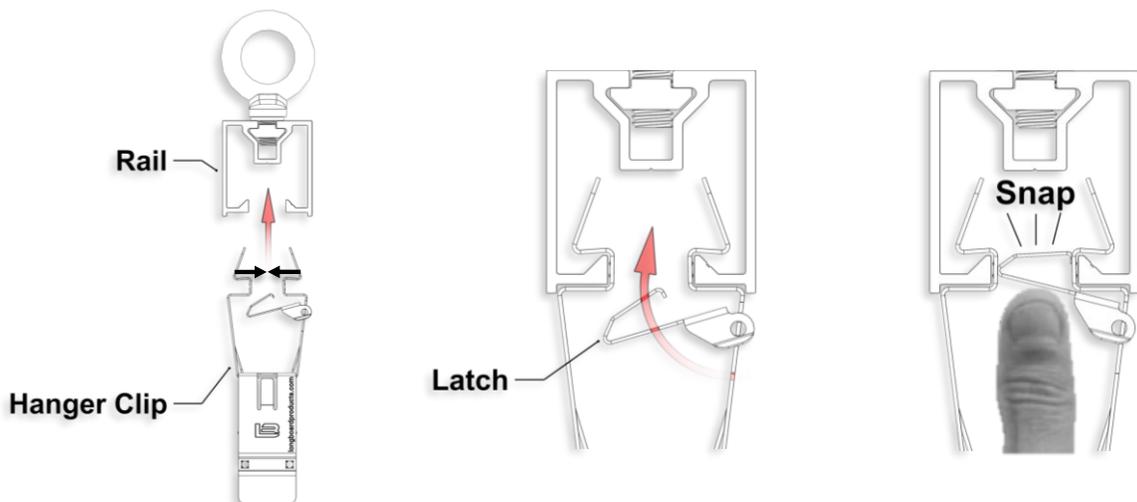


#### Step 2 -Hanger Clip Install

Measure desired Baffle spacings on the Rail (X) and install Hanger Clips as shown. The Hanger Clip is designed with a Latch that when pressed locks the Hanger Clip into place. Using thumb, press with pressure to snap the Latch into place. See images for details.

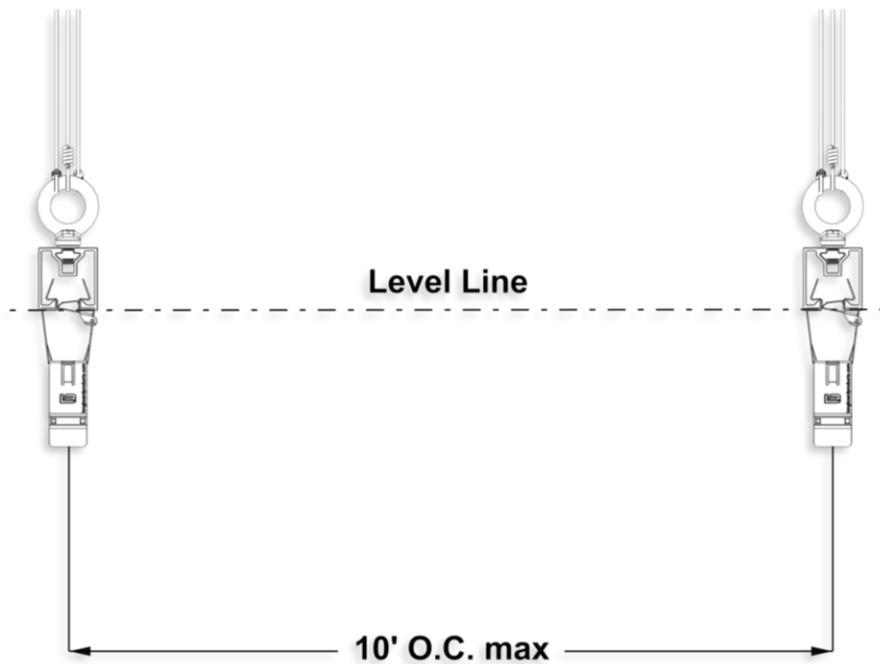
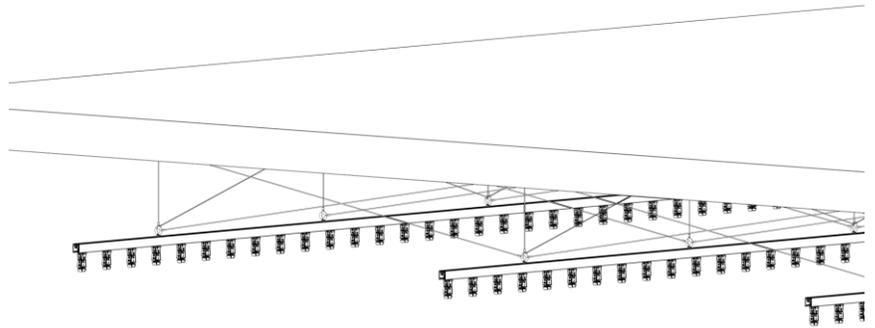


**⚠ Note:** The Hanger Clip is universal so it can be installed either end into the Rail or Baffle.



**Step 3 -Rail Install**

Install Rails with Hanger Clips onto ceiling structure with wires or Ready Rod. Make sure to level out the Rails so they are all plumb and straight.

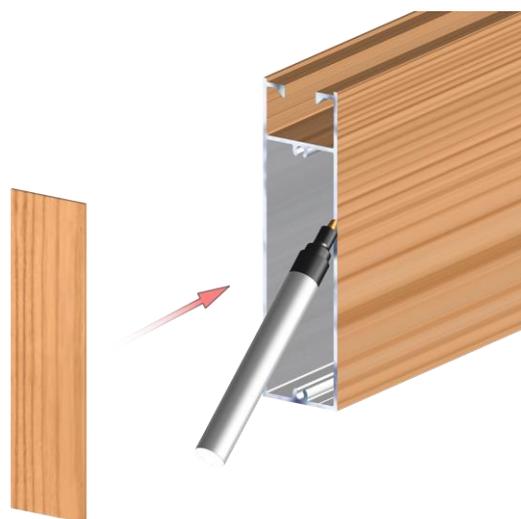


**⚠ Note:** See **Appendix** for allowable attachment span. **Tables 1 & 2.**

#### Step 4 -Baffle Preparation

Measure and cut Baffles for the required area.

Use a Paint Pen on the cut ends and install End Caps. End Caps are friction fit and if needed can be installed with a Rubber Mallet to protect the finish.



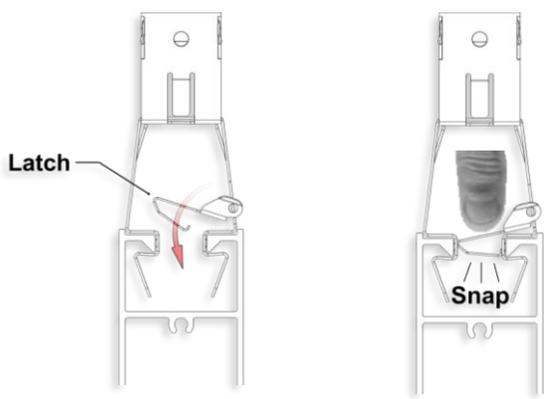
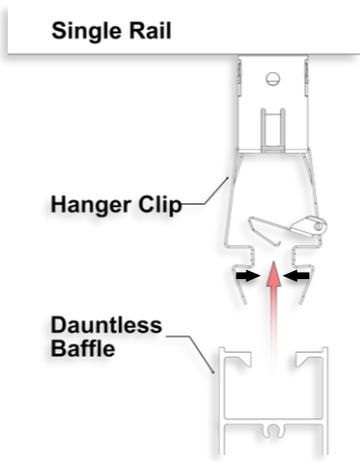
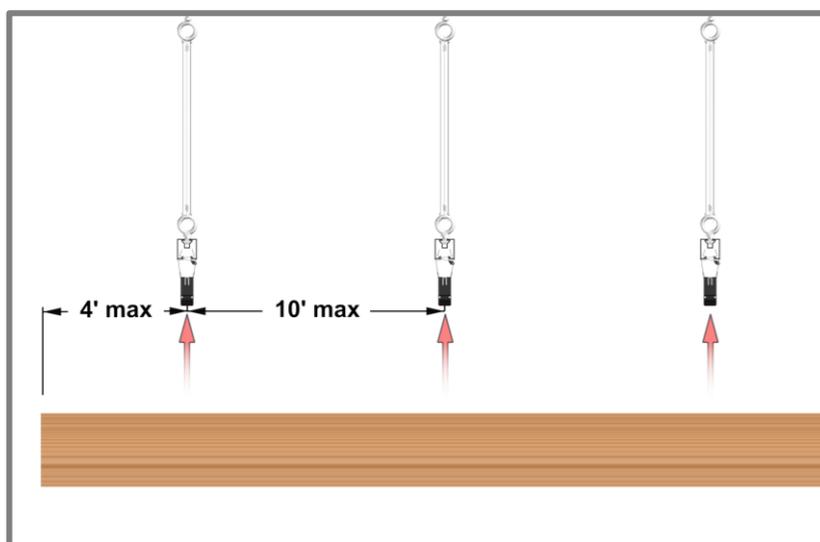
#### Step 5 -Baffle Install

Lift Baffles into place onto the Hanger Clips previously installed on the Rails.

Using the Latch, snap the Baffle into place for every hanger Clip along the length. Make sure to check that Baffles are level, plumb and straight.

**⚠ Note:** Make sure every Hanger Clip is attached and snapped onto the Baffle.

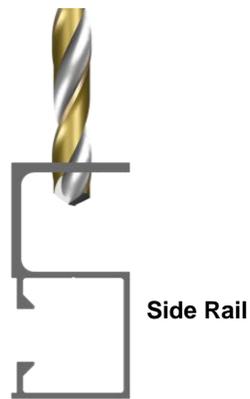
Repeat Steps 4 & 5 for the rest of the Baffles.



## Install Hanger Bracket system

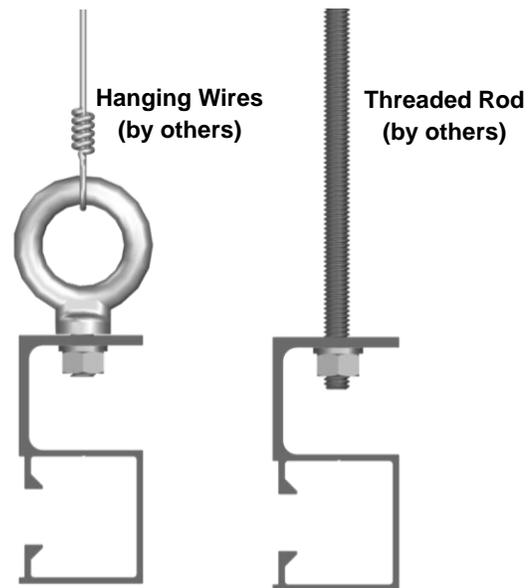
### Step 1 -Pre-drill Side Rails

Measure and cut Rails for the required area. Measure and drill holes for wire or threaded rod attachment every 4' O.C. max with a 2' max rail cantilever.



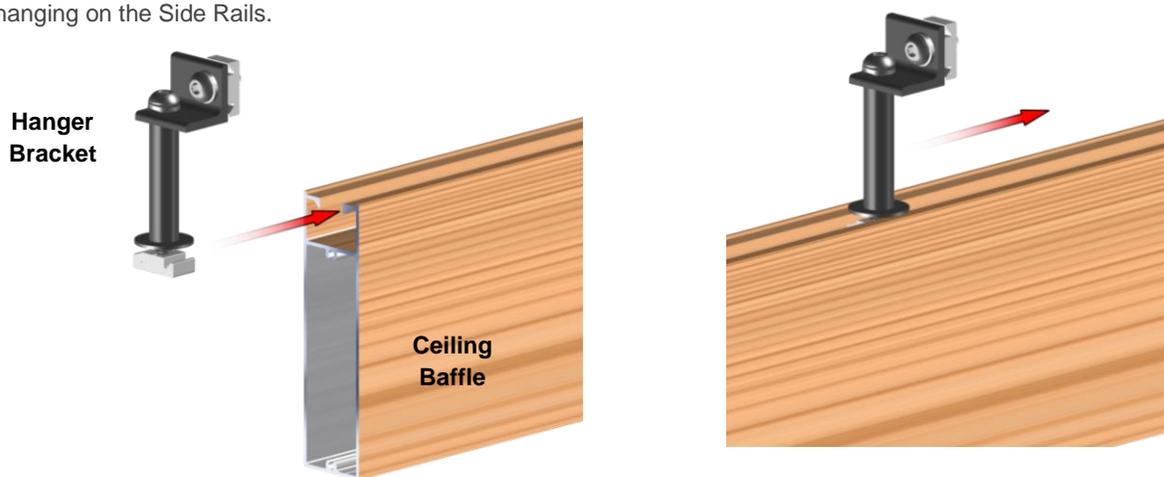
### Step 2 -Rail Install

Install Rails with Hanger Brackets onto ceiling structure with wires or Ready Rod. Make sure to level out the Rails so they are all plumb and straight.



### Step 3 -Beam Preparation

Measure and cut Baffles for the required area. Install Hanger Brackets and slide them to the desired attachment spacing for hanging on the Side Rails.

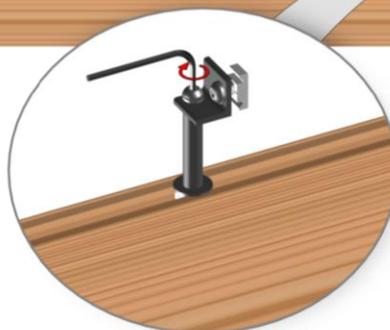


Tighten Hanger Bracket bolts (hand tight) at the measured location using 7/32" Allen Key (by others).

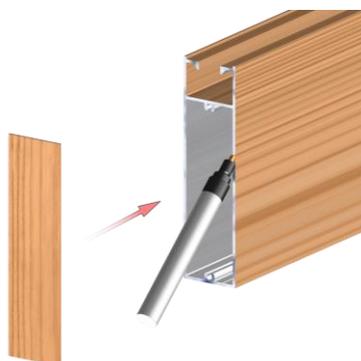
10' O.C. max



**⚠ Note:** See **Appendix** for allowable attachment span. **Tables 1 & 2.**

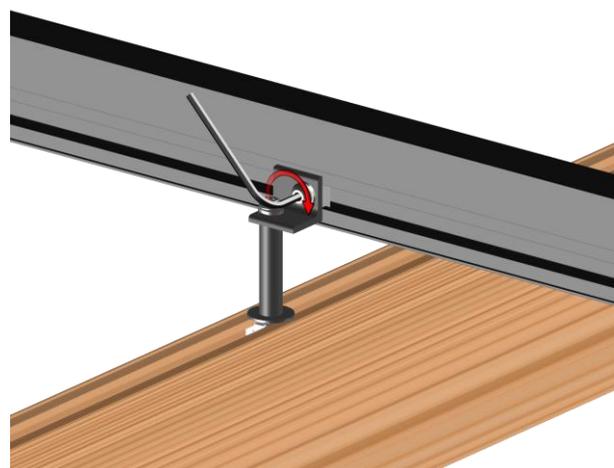
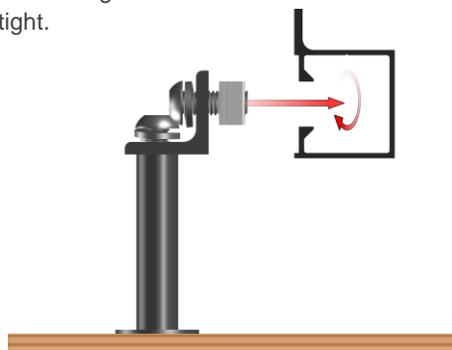


Use a Paint Pen on the cut ends and install End Caps. End Caps are friction fit and if needed can be installed with a Rubber Mallet to protect the finish.



**Step 4 -Baffle Install**

Lift Dauntless Ceiling Baffle into place and tighten bolts to secure the Bracket to the Side Rail. Adjust for level/straight and check bolts are tight.



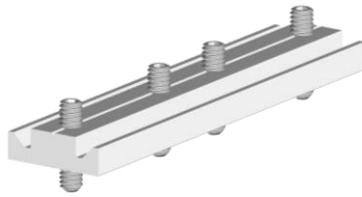
**Details**

Butt-Joints using spline connector

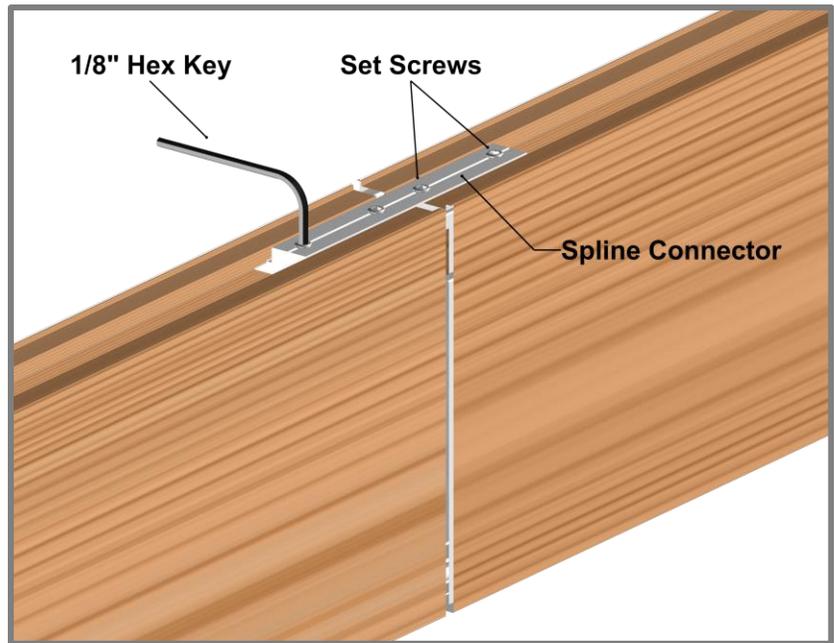
Spline Connectors are used to connect Dauntless Baffles together to achieve a seamless look for linear runs greater than 24'.

A 1/8" Hex Key is used (by others) to tighten the Set Screws once in the desired position.

Spline Connector and Set Screws are purchased separately.

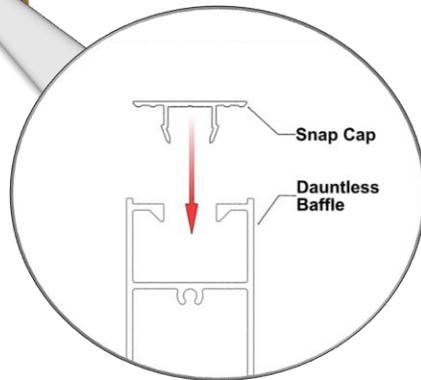


**Spline Connector with Set Screws**

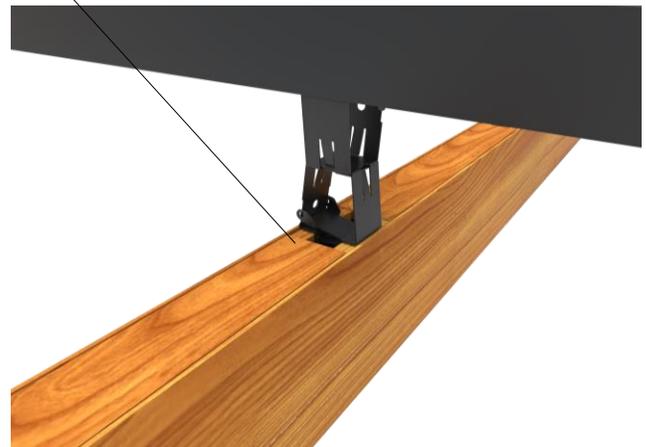


Snap Cap Install (For line-of-sight aesthetics if required)

Ceiling Baffle Snap Cap is installed to finish the top of the Baffle. Snap Caps are friction fit and if needed can be installed with a Rubber Mallet to protect the finish.

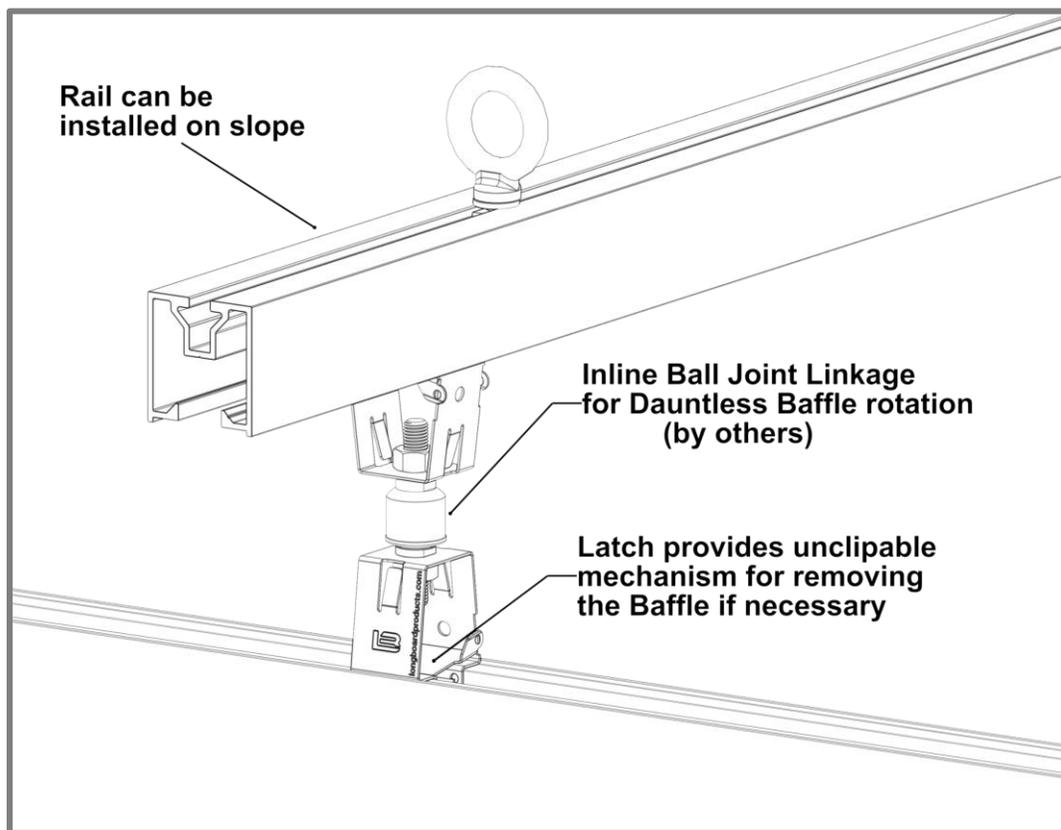
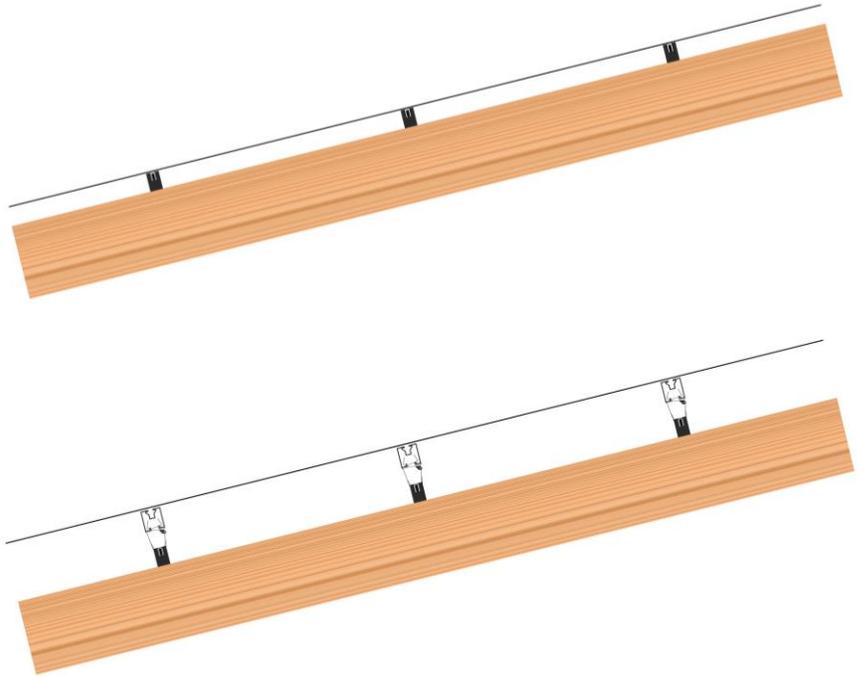


Note: Cut out Snap Caps with enough room to install between the Hanger Clips/Brackets.



Angled orientation options

Dauntless Hanger Clips and Brackets can be installed on angled ceilings directly mounted to substrate. Depending on the variations in ceiling angles and degrees of slope, Longboard recommends support through specific project-based analysis.



**Install option for rotational axis.**

# Appendix

## Allowable attachment span -Load Tables

TABLE 1

4" DAUNTLESS		PSF (Factored / Ultimate)					
		20	30	40	50	60	70
ALLOWABLE SPAN (ft)	6'	✓	✓	✓	✓	✓	✓
	8'	✓	✓	✓			
	10'	✓					

All testing has been performed using L/180 deflection limits

TABLE 2

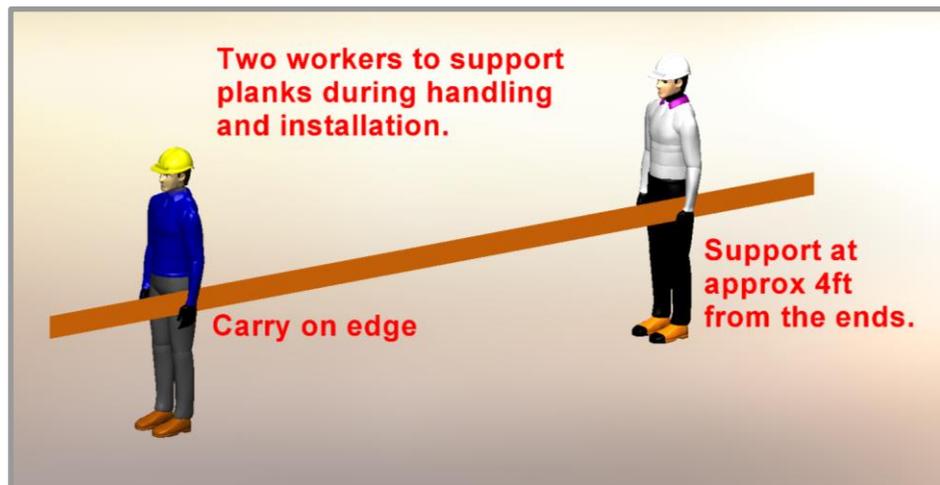
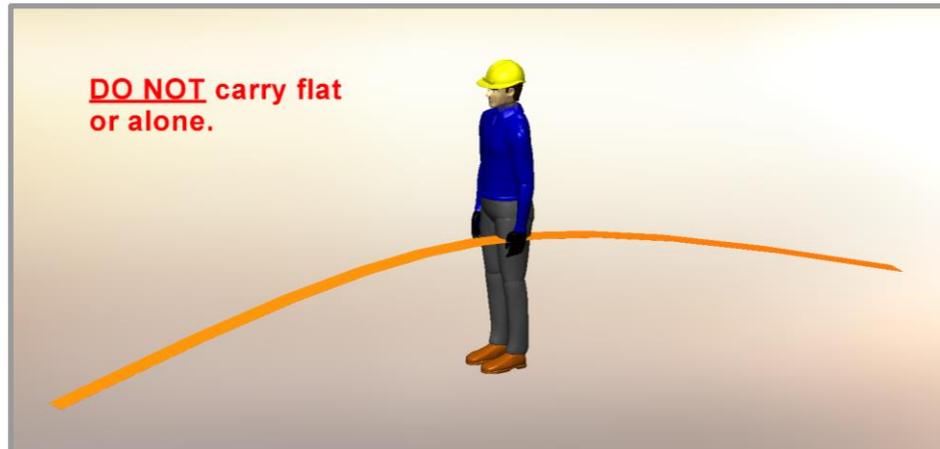
6" DAUNTLESS		PSF (Factored / Ultimate)					
		20	30	40	50	60	70
ALLOWABLE SPAN (ft)	6	✓	✓	✓	✓	✓	✓
	8	✓	✓	✓			
	10	✓	✓				

All testing has been performed using L/180 deflection limits

## Proper Handling of Longboard Products



To help avoid injury and product damage, Longboard products require proper handling to and from storage areas during installation. When carrying or installing any products it is recommended that they be moved or carried by at least two people with each support point approximately 4ft from the ends. **Carrying products without proper support can cause excessive bending which may damage the appearance or finish of the product.** Any short cut lengths should also be carried on edge while supporting the material. See below for details.



### ⚠️ Delivery, Storage & Handling ⚠️

- Always inspect the delivery for damage and contact LB ASAP if there are any issues: [info@longboardproducts.com](mailto:info@longboardproducts.com) or 1-800-604-0343 and include your PO# and any pictures if possible. Longboard is not responsible for the installation of blemished or damaged material.
- Be sure to store the material flat, keep it dry, safe & secure and remain in unopened cartons until ready to be installed.
- Always wear appropriate PPE when handling products.

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Longboard  
1777 Clearbrook Road  
Abbotsford, BC V2T 8X8  
Canada  
[longboardproducts.com](http://longboardproducts.com)

Every effort has been made to ensure that the information in these installation guidelines is accurate. Longboard is not responsible for printing or clerical errors.

For more information, contact client care at [info@longboardproducts.com](mailto:info@longboardproducts.com) or call toll free 1-800-604-0343.