

STEEL DECK FRAMING



# **Installation Instructions for Fortress Framing**

## **Evolution Steel Deck Framing System**

# Table of Contents

About Evolution Steel Deck Framing 4
FAQ's
Important Information5
Deck Overview / Definitions 6
Preparation & Planning
Post14
S-Ledger15
Beam to Post Connections
Flush Beam20
Drop Beam & Blocking21
Beam Splicing22
Beam & Joist Caps23
Joist24
Joist as a Carry Beam26
Strapping (Mid-Span Blocking)27
Non-Standard Spacing & General Blocking28
Rim Joist
Post to Frame Connections
Maintenance Requirements
Evolution Inspection Checklist
Fastening Schedule42
Product Overview43

## **About Evolution Steel Deck Framing**

Evolution Steel Framing is uniform and straight, so pieces are simple to square and won't twist, warp, rot, crack or burn like wood. The interlocking joist and ledger system lets you build sturdy, safe decks with less labor. Our powder-coating offers increased corrosion resistance and a more finished look. If you can build with wood, you can build with Evolution Steel Framing!



# FAQ's

#### How do I start planning to build with Evolution Steel Deck Framing?

Evolution Steel Deck Framing contains all the parts you need to install a basic deck, including the fasteners. Similar to wood at a hardware store, the system also contains many beam and joist length choices. You design an Evolution Frame the exact same way you design a traditional wood framed deck. The span capabilities of the Evolution system are greater than wood, however, so you need to reference the Evolution span charts to determine your member spacing.

### How do I cut Evolution Steel Framing?

Evolution Steel Framing cuts like wood, the only difference being that you'll need a saw capable of cutting steel as well as a steel cutting blade. Reference the Preparation and Planning section for more specific information.

#### Can the Evolution Steel Framing be used when angles and curves are involved?

Yes. There are parts to address many different instances when angles are involved. 45 degree brackets are available for joists, and there's a curved rim joist option for decks with a radius.

### Are there different color options for Evolution Steel Deck Framing?

No. All the Evolution Framing parts come with a Black Sand powder coating finish. There is also a non-powder coated galvanized version (joist parts only) that is a lighter gauge material designed for ground-level applications.

### What tools are needed to install Evolution Framing?

Reference the Tools needed in Tools section.

### Can Evolution Framing be installed around salt water?

Evolution Steel Deck Framing cannot come into direct contact with salt water, nor be installed within 1 mile of a body of salt-water. Doing so will void the warranty.

### Can Evolution Framing be installed around fresh water?

Evolution Steel Deck Framing products can not be installed under the surface of, within the flood zone of, or exposed to the constant spraying of any body of water. Doing so will void the warranty.

### Are there any special Maintenance Requirements when using Evolution Framing?

When installed properly, Evolution Framing is very low maintenance. It's galvanized as well as powder coated which protects it extremely well from the outdoor elements. Reference the Maintenance Requirements of this manual.

#### If I run into problems or have questions is there somebody I can call?

Yes, if you purchased from a dealer you can always contact them. Or, you can contact Fortress Framing directly during normal business hours at 866-323-4766 or email sales@fortressframing.com.

#### Are there any special fasteners or brackets required?

Fortress Framing offers all the parts you'll need to build a basic deck with the Evolution Steel Framing System.

#### If the Evolution Framing System is scratched or scuffed, can I touch it up myself?

Yes, the Fortress Black Sand Touch-Up Paint can be used to spray cut ends and any scratches or scuffs on the framing. Reference the Maintenance Requirements section.

# **IMPORTANT INFORMATION**

It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The framing, deck and railing installer should determine and implement appropriate installation techniques for each installation situation. Neither The Fortress Company nor its distributors shall not be held liable for improper or unsafe installations.

Personal Protection Equipment (PPE) must be worn anytime you're using power tools and working with Evolution Steel Deck Framing. Eye protection, hearing protection, closed-toe shoes, gloves, long sleeves, and pants must be worn to keep yourself safe.

As the steel framing parts are cut, all metal shavings and/or chips must be removed from inside the Evolution Framing parts. At the end of a work period, all steel shavings and/or chips must be cleaned off the jobsite. Not doing so could result in the staining of surrounding surfaces.

As the steel framing parts are cut, DO NOT allow metal shavings and/or chips to get dropped or blown into a pool, hot tub, or any other body of water. Staining could occur if this were to happen.

Fortress Framing does not cover all possible installation scenarios within these instructions. In some cases, it may be necessary for you to consult a professional engineer, building code official, or local dealer. In addition, it may become necessary to use brackets other than Fortress' when more complex installations take place.

Fortress Framing includes span charts within these instructions. Never exceed the limits outlined within the span charts. Doing so may void the manufacturer's warranty. If there are questions, consult a professional engineer, building code official, your local dealer, or Fortress Faming.

Fortress Framing includes a fastening schedule within these instructions. Reference the Table of Contents. In most cases, Evolution parts are manufactured with pre-drilled holes in the brackets. ALL of these holes must be filled with the Evolution #10 3/4" Black Self-Tapping Screw (NOT including the Ledger, reference the S-Ledger section for fastening instructions).



- 1) Evolution S-Ledger
- 2) Evolution Ledger Bracket
- 3) Evolution F50 Bracket
- 4) Evolution 2X6 Joist
- 5) Evolution 12 OC or 16OC Strap
- 6) Evolution 12 OC or 16 OC Blocking

- 7) Evolution 2x11 Beam
- 8) Evolution U-Rim Joist
- 9) Evolution Beam/Post Bracket
- 10) Evolution Post
- 11) Evolution Post/Pier Bracket
- 12) Evolution Beam Cap
- 13) F10 Bracket

## **Deck Overview / Definitions**

**1)** Evolution S-Ledger: The part of a deck that attaches to the structure. Evolution's S-Ledger is an engineered interlocking design with the Ledger Bracket that eliminates the need for excessive fasteners and drastically speeds up installation. The "S" shape provides a sturdy, safe deck connection that will provide peace of mind for decades. The S-Ledger is available with pre-punched, standard spacing options that drastically simplify deck construction.

**2)** Evolution Ledger Bracket: Used to attach the Joist to the S-Ledger. Can also be used to attach the joist to the beam in flush beam installations.

3) Evolution F50 Bracket: Used with S-ledger, joist, and blocking as well as many other applications.

**4)** Evolution 2X6 Joist: Evolution Joists are familiar shapes that install quickly and easily with minimal fasteners. The steel joist will hold their shape providing a perfectly flat deck surface that will not sag or warp over the life of your deck.

**5)** Evolution 12 O.C. or 16 O.C. Strap: Manufactured to match the same spacing as the S-ledger for easy mid-span blocking applications. Straps must be installed when joist spans are greater than 8'.

6) Evolution 12 O.C. or 16 O.C. Blocking: Manufactured to match the same spacing as the S-ledger for the easy blocking of joist on a dropped beam.

**7)** Evolution 2X11 Beam: Evolution's Beam has been engineered to achieve longer spans between supports than wood eliminating excessive post and obstructed views.

**8)** Evolution U-Rim Joist: Evolution's U-Rim Joist incorporates the same pre-punched and non-punched system as the S-Ledger for consistent, quicker installation without the hassle. The U-Rim Joist attaches to the Joist with minimal fasteners and provides a perfectly flat surface to attach trim or fascia.

**9) Evolution Beam/Post Brackets:** These brackets are designed to attach the beam to the post. There are two options; a single beam/post bracket and a double beam/post bracket.

**10)** Evolution 3.5X3.5 Post: Evolution's steel post and brackets provide the perfect solution to support your deck. The black powder coated post look great on their own or can be dressed up with the trim of your choice.

11) Evolution Post/Pier Bracket: Secures post to concrete landing or pier.

**12)** Evolution Beam Cap: Covers open beams to provides clean, finished look and deter pest and animals.

**13) F10 Bracket:** Used to secure joist to a drop beam when non-standard spacing is required and as a cap on the bottom of the S-ledger.

# **Deck Overview / Definitions**

Joist Cap (Not Pictured): Covers open joist to provides clean, finished look and deter pest and animals.

**Rim Joist Brackets (Not Pictured):** Inserts into joist at the end of the deck for attaching the Curved Rim Joist. Designed to be bendable as needed to accommodate nearly any curved radius.

**45 Degree Bracket (Not pictured):** Used with the Blank S-ledger when joist extend at an angle to keep standard spacing.

Single Hanger Bracket (Not pictured): Used to secure joist to flush beams.

**Double Hanger Bracket (Not Pictured):** Used to secure double joist or create a double (2"x6") carry beam.

## **Preparation & Planning**

### WARNING!

Personal Protection Equipment (PPE) must be worn anytime you're using power tools and working with Evolution Steel Deck Framing. At a minimum, eye protection, hearing protection, gloves, closedtoe shoes, long sleeves, and pants must be worn for safety.

## Personal Protective Equipment



### Recommended Tools











- A <u>Joist Spacing</u>: On-Center (O.C.) spacing typically 12" O.C. or 16" O.C. from center of one joist to center of the next joist. This spacing is determined based on desired overall joist spans. Reference the Joist Span charts contained within this instruction manual.
- Beam Span: Distance between support posts. This span varies based on the overall joist span as well as the joist cantilever. Reference the Beam Span Charts contained within this instruction manual.
- **C** <u>Joist Cantilever Span</u>: Distance the Joist spans overhang out past the beam. Note that this distance impacts beam and joist spans and is referenced in the Span Charts.
- **D** <u>Joist Span</u>: Distance the joist spans from the S-Ledger to the beam, or from beam to beam.
- E <u>Beam Cantilever</u>: Distance the beam overhangs out past the support post. The maximum beam cantilever allowed with Evolution Steel Framing is 24".







The S-Ledger has (3) 3/8" pre-drilled hole pattern spaced evenly across the length of the S-Ledger. This is an engineered hole pattern designed for optimal performance when securing to the structure.

If local building code requires connectors larger than 3/8", the factory sized holes can be drilled out using a metal cutting drill bit.

### WARNING!

Attachment to the structure will vary depending on the attachment material and geographical region. Consult your local building code official or structural engineer to determine the proper size and type of bolt/screw to use to attach the S-ledger to the structure.

### WARNING!

Flashing/Water Management requirements will vary from region to region. Consult your local building code official or structural engineer for proper flashing/water management treatment.



Once the Ledger Brackets are in place and the S-Ledger is attached to the structure, the F50 Brackets are used as the joist attachments on both ends of the S-Ledger.

Attach F-50 Bracket to the outside edges of the S-Ledger with Evolution self-drilling screws.

<u>NOTE:</u> The F50 Bracket is also used anytime there's a joist attachment to the S-Ledger that requires non-standard spacing. This could occur if you're adding joists for blocking or adding additional support.







Couple two beams together using the Evolution Double Beam Track. Snap a double beam track on the top and the bottom of the double beam.

Fasten the double beam track to the double beam using Evolution self-drilling screws.

Position the Double Beam with Double Beam Track to the top of posts and secure with the Double Beam to Post Bracket. Attach with Evolution self-drilling screws.

<u>Note:</u> The Double Beam Tracks are packaged in pairs and come in 4' sections. They must be installed continuously across the length of the double beam.

Example: For a 20' Double Beam, it would require 10 Double Beam Tracks (5 on top, 5 on bottom). Since they're packaged in pairs, you'd need to buy 5 each of the Double Beam Track.



Position F50 Brackets and Hanger Brackets to the beam at their desired locations. Attached with Evolution self-drilling screws.









The beam splice is connected with (4) 3/8" diameter thru bolts, nuts, and washers.



# Joists

### WARNING!

Evolution Framing System has two versions of joists. See Table of Contents and reference the Product Overview section for specifics on the different joists. It's important be aware of your job requirements as they have different span limitations. See Table of Contents and reference the Span Charts for span limitations.



Slide Joist onto the Ledger Bracket and secure with (1) Evolution Self-Drilling Screw on each side.

<u>Installation Tip</u>: At times, the joist may not slide right onto the Ledger Bracket. In this case, use a mallet or hammer to tap the joist into place. Be sure to use a barrier board between the hammer/mallet and the joist to prevent damage.

## Joists

### WARNING!

Evolution Framing System has two versions of joists. See Table of Contents and reference the Product Overview section for specifics on the different joists. It's important be aware of your job requirements as they have different span limitations. See Table of Contents and reference the Span Charts for span limitations.



All joists contain weep holes to allow for water drainage. When installing, it's important that the weep holes are pointed down.

Not pointing the weep holes down may cause water to collect and ultimately cause damage to the joists.



At times, it can be more cost effective or simpler to use a joist or a double joist as a beam. This can also be necessary when framing around bay windows or when extra support is needed for decking.

### WARNING!!

Reference the Joist as a Carry Beam Span Tables for span distances when using a joist as a carry beam. Never exceed the limits outlined within the span charts. Doing so will void the manufacturer's warranty. If there are questions, consult a professional engineer, building code official, your local dealer, or Fortress Framing.

# Strapping (Mid-Span Blocking)

For Joist Spans greater than 8', blocking is required midspan at every bay.

There are two different installation options for the 12" O.C. and 16" O.C. straps; one for ground level decks and one for elevated decks.

### **Ground Level Decks**



Using Evolution 12" or 16" O.C. Straps, Place on the <u>TOPSIDE</u> of the joist. The strap is 4' long and will cover (4) Joist for the 12" O.C. version and (3) Joist on the 16" O.C. version.

This method should only be used when the deck is ground-level and not accessible from the bottom side.

No fasteners are required when installing Strap on the top-side

### **Elevated Decks**



Using Evolution 12" or 16" O.C. Straps, place on the <u>UNDERSIDE</u> of the joist. The strap is 4' long and will cover (4) Joist for the 12" O.C. version and (3) Joist on the 16" O.C. version.

This is the preferred method for installation and should be used anytime there's access to the bottom of the deck.

NOTE: The larger diameter holes in the strap are to allow water to escape when it's installed on the underside of the joist.

## Non-Standard Spacing at Mid-Span & General Blocking

This method can be used for blocking in cases when there's non-standard spacing and the pre-engineered mid-span strap and beam blocking cannot be used.

This method can be used in general applications when extra blocking is needed for more structure and support. This can be the case when railing or stairs are being installed, extra framing for deck board picture framing, etc.



Cut Evolution Joists pieces to the appropriate length and secure them with (2) F50 brackets.

# **Rim Joist**

There are 4 variations of Rim Joists: U-Rim Joist 12" O.C. & 16" O.C., U-Rim Joist Blank, Joist as a Rim Joist, and the Curved Rim Joist.

### U-Rim Joist 12" O.C. and 16" O.C. Spacing

The pre-punched U-Rim joist should ONLY be used when fascia will mount on the Rim of the deck.



The pre-punched U-Rim joist is designed to provide a completely flat surface for fascia mounting.

Set the U-Rim Joist in place and secure it by fastening the tabs to the ends of the joists using Evolution self-drilling screws. There is one tab on each side of the joist.

Use the F50 Bracket to make any connections where there isn't a tab on the U-Rim Joist. This will occur on the ends and when there's a joist that has non- standard.



### WARNING!!

This installation should ONLY be used when fascia will mount on the rim of the deck. Not having fascia will result in exposed openings that may be unsightly.

# **Rim Joist**

### Blank U-Rim Joist

The Blank U-Rim is used anytime there's non-standard joist spacing

The Blank U-Rim is used anytime no fascia will be used on the rim of the deck.

Position the Blank U-Rim Joist the same as the pre-punched U-Rim Joist and use the F50 brackets to fasten it to the joists.

### Curved Rim Joist

The Curved Rim Joist is used anytime there's a radius on the rim of a deck.





Curved Rim Joist.

Rim Joist Bracket

There's no need to angle cut the joists at the rim when you use the Curved Rim Joist and the Rim Joist Bracket.

Pop the Rim Joist Brackets into the joists. Using Channel Locks or Locking Pliers, bend the tabs on the Rim Joist Bracket to the desired angle.

Bend the Curved Rim joist by hand and fit it to the angle on the Rim Joist Bracket and fasten it using Evolution self-drilling screws.

# **Rim Joist**

### Joist as a Rim Joist

The regular Evolution 2x6 Joist can also be used on the rim of a deck. This option can be used with or without fascia and leave a completely flat surface on the rim.



Insert Ledger Brackets into the ends of all the joists except the ends. Use F50 Brackets on the end joists.

Position the "Joist as a Rim Joist" into place and secure using the Evolution Self-Drilling Screw. Fill all holes on the brackets.







Finish installing bolts on the bottom side with 3/8" galvanized washers and nuts.

Hand tighten the bolts and nuts until snug. Some deformation of the framing member is normal to get a solid connection but DO NOT over-tighten.







# **Maintenance Requirements**

When installed properly, Evolution Framing is very low maintenance. It's galvanized as well as powder coated which protects it extremely well from the outdoor elements.

Touch Up Paint: Fortress Black Sand Touch-Up Paint can be used to spray cut ends and any scratches or scuffs on the framing. If that is unavailable, any other rust-inhibiting spray paint can also be used. Be sure to choose a color that closely matches the Fortress Black Sand powder coating.

During the installation process, it's important to visually inspect all the framing parts and cover any exposed steel with the before-mentioned touch up paint. Not doing so could result in corrosion and void the manufacturer's warranty.

During installation, all cut ends of the framing parts must be covered with Fortress approved touch-up paint.

All scratches, dings, dents, etc. that expose raw steel must be covered with Touch-Up Paint to prevent rust from occurring. Simply apply enough paint to cover the exposed steel.

It's a good practice to periodically inspect your Evolution Steel Deck Framing. Fortress recommends an inspection 2 years after installation and then every 3-5 years thereafter. The inspection should be completed by a qualified building professional or qualified homeowner. If problems are noticed contact the original installers or contact Fortress Framing directly at the address below.

sales@fortressframing.com

or

Fortress Framing 1-866-323-4766

Reference the table of contents; the Evolution Inspection Checklist is contained within these installation instructions.



![](_page_38_Picture_1.jpeg)

## **Evolution Inspection Checklist**

Property Address:	Contact Name:
	Contact Phone:
Contact E-mail:	
Footing Connection Any visible signs of Corrosion Any visible signs of Damage t Any missing, damaged or cori	on Post/Pier Bracket? Yes No to Post/Pier or Connection? Yes No roded fasteners? Yes No
If you answered "Yes" to any of the above	questions, please explain below:
Ledger Connection to Structure Any visible signs of Corrosion Any visible signs of Damage to Is there any decay or rot behin Any missing, damaged or corr	on Ledger or Ledger Brackets? Yes No to Ledger or Ledger Brackets? Yes No nd the ledger? Yes No roded fasteners? Yes No
Ledger Connection to Structure Any visible signs of Corrosion Any visible signs of Damage t Is there any decay or rot behin Any missing, damaged or corr If you answered "Yes" to any of the above	on Ledger or Ledger Brackets? Yes No to Ledger or Ledger Brackets? Yes No nd the ledger? Yes No roded fasteners? Yes No questions, please explain below:

Beam to Post Connections Any visible signs of Corrosion on Beam to Post Connection? Yes No Any visible signs of Damage to Beam to Post Connection? Yes No Any missing, damaged or corroded fasteners? Yes No
If you answered "Yes" to any of the above questions, please explain below:
Beams & Joists Any visible signs of Corrosion on Beams, Joists or Brackets? Yes No Any visible signs of Damage to Beams, Joists or Brackets? Yes No Any missing, damaged or corroded fasteners? Yes No
If you answered "Yes" to any of the above questions, please explain below:
Blocking and Strapping Any visible signs of Corrosion on Blocking or Strapping? Yes No Any visible signs of Damage to Blocking or Strapping? Yes No Any missing, damaged or corroded fasteners? Yes No If you answered "Yes" to any of the above questions, please explain below:
Beam & Joists Splicing (If present) Any visible signs of Corrosion on Beam or Joist Splicing? Yes No Any visible signs of Damage to Beam or Joist Splicing? Yes No Any missing, damaged or corroded fasteners? Yes No If you answered "Yes" to any of the above questions, please explain below:

Any visible signs of Corrosion on Joist/Rim Connection?	Yes	No
Any visible signs of Damage to Joist/Rim Connection?	_Yes	No
Any missing, damaged or corroded fasteners? Yes	No	

If you answered "Yes" to any of the above questions, please explain below:

Are any weep holes on Joists and Beams clogged or blocked with debris? Is there any other damage, corrosion or missing components on the framing mentioned above?YesNo	Yes system that	No
Is there any other damage, corrosion or missing components on the framing mentioned above? <u>Yes</u> No	system that	
Are there any signs of insect of animal initiation in any of the steel framing	components	wasn't ?
YesNo	·	
Are there any other areas of concern on the framing system that need to be Yes No	addressed?	
ou answered "Yes" to any of the above questions, please explain below:		
• • • • • • • • • • • • • • • • • • • •		

If there are questions, contact Fortress Framing at <u>warranties@fortressframing.com</u> or 1-866-323-4766.

## **Component Fastening Schedule**

Connection	Fasteners
F50 Bracket to Ledger	(3) #10 screws – fill all holes in bracket
Ledger bracket to backside of Ledger (typical installation)	No fasteners required
Ledger bracket to frontside of Ledger	(6) #10 screws – fill all holes in bracket
F50 bracket to Joist	(3) #10 screws – fill all holes in bracket
Ledger bracket to Joist	(2) #10 screws – one per side
Joist to Beam (flush mount) with Joist Hanger	(8) #10 screws – fill all holes in bracket
Joist to Beam (dropped beam) with 12" or 16" OC Blocking	(5) #10 screws – fill all holes in bracket
Joist to Beam (dropped beam) with F10 Bracket	(4) #10 screws – fill all holes in bracket
Joist to Joist Blocking with 12" or 16" OC Strap installed on top of joists	No fasteners required
Joist to Joist Blocking with 12" or 16" OC Strap installed on bottom of joists	(1) #10 screw per joist – fill all holes in strap
Joist to Joist Blocking non-12" or 16" OC spacing	(2) F50 brackets, (12) #10 screws with joist material cut to length
Rim bracket to Joist	(2) #10 screws
Curved Rim Joist to Rim bracket / Joist	(1) #10 screw
Rim Joist-12" or 16" OC Spacing	(2) #10 screws per joist – fill all holes
Post to beam bracket	(28) #10 screws – fill all holes
Post to Pier bracket	(8) #10 screws – fill all holes

### Beam Connection Schedule

Single beam to top of Column	(1) Single Beam/Post Bracket, (28) #10 screws – fill all holes in brackets	
Single beam to notched Column	(2) ½" diam. carriage bolts (410 stainless steel)	
Double beam to top of Column	(1) Double Beam/Post Bracket, (28) #10 screws – fill all holes in brackets	

## **Product Overview**

DESCRIPTION

JOIST - 18 GAUGE

ITEM #

181112180 181114180

182112141

182120141

1

![](_page_42_Picture_1.jpeg)

JOIST - 16 GAU	GE	
ITEM #	DESCRIPTION	UPC #
181112161	FF-EVOLUTION-2X6 JOIST-12'-16GA-PC	811397030170
181114161	FF-EVOLUTION-2X6 JOIST-14'-16GA-PC	811397030163
181116161	FF-EVOLUTION-2X6 JOIST-16'-16GA-PC	811397030156
181118161	FF-EVOLUTION-2X6 JOIST-18'-16GA-PC	811397030149
181120161	FF-EVOLUTION-2X6 JOIST-20'-16GA-PC	811397030132

UPC#

811397030224

811397030316

811397030354

811397030330

811397030347

811397030217

![](_page_42_Picture_3.jpeg)

![](_page_42_Picture_4.jpeg)

181116180	FF-EVOLUTION-2X6 JOIST-16'-18GA	81139/030200
181118180	FF-EVOLUTION-2X6 JOIST-18'-18GA	811397030194
181120180	FF-EVOLUTION-2X6 JOIST-20'-18GA	811397030187
S-LEDGER		
ITEM #	DESCRIPTION	UPC #
182012141	FF-EVOLUTION-S-LEDGER-12'	811397030293
182020141	FF-EVOLUTION-S-LEDGER-20'	811397030309

FF-EVOLUTION-2X6 JOIST-12'-18GA

FF-EVOLUTION-2X6 JOIST-14'-18GA

FF-EVOLUTION-12OC-S-LEDGER-12'

FF-EVOLUTION-12OC-S-LEDGER-20'

FF-EVOLUTION-16OC-S-LEDGER-12'

FF-EVOLUTION-16OC-S-LEDGER-20'

![](_page_42_Picture_6.jpeg)

EAM		
EM #	DESCRIPTION	UPC #
84108161	FF-EVOLUTION-BEAM 2X11-8'	811397030361
84112161	FF-EVOLUTION-BEAM 2X11-12'	811397030378
84116161	FF-EVOLUTION-BEAM 2X11-16'	811397030385
84120161	FF-EVOLUTION-BEAM 2X11-20'	811397030392

![](_page_42_Picture_8.jpeg)

DOUBLE BEAM	TRACK	
ITEM #	DESCRIPTION	UPC #
184204161	FF-EVOLUTION-DBL BEAM TRACK-4' (2 PACK)	811397030408

## **Product Overview**

![](_page_43_Picture_1.jpeg)

CAPS	
ITEM #	

183062001 183112001 DESCRIPTION FF-EVOLUTION-JOIST CAP FF-EVOLUTION-BEAM CAP UPC # 811397030262 811397030279

![](_page_43_Picture_6.jpeg)

DESCRIPTION	UPC #
FF-EVOLUTION-12OC U-RIM JOIST-2X6-8'	811397030422
FF-EVOLUTION-16OC U-RIM JOIST-2X6-8'	811397030439
	DESCRIPTION FF-EVOLUTION-12OC U-RIM JOIST-2X6-8' FF-EVOLUTION-16OC U-RIM JOIST-2X6-8'

![](_page_43_Picture_8.jpeg)

RIM JOIST - BLANK				
ITEM #	DESCRIPTION	UPC #		
185008141	FF-EVOLUTION-U-RIM JOIST-2X6-8'	811397030415		

![](_page_43_Picture_10.jpeg)

#### RIM JOIST - CURVED

ITEM #	DESCRIPTION	UPC #
185308161	FF-EVOLUTION-CURVE-RIM JOIST-2X6-8'	811397030446

	POST ITEM # 186110111	DESCRIPTION FF-EVOLUTION-POST 3.5X3.5-10'	UPC # 811397030248
316**	POST TO PIE	R BRACKET	
	ITEM # 183351601	DESCRIPTION FF-EVOLUTION-3.5" POST/PIER BRACKET	UPC # 811397030286
31/2 31/2*	SINGLE BEAI	M TO POST BRACKET	
A 1	DOUBLE BEAM	TO POST BRACKET	
	ITEM # 183261601	DESCRIPTION FF-EVOLUTION-DBL BEAM/POST BRACKET	UPC # 811397030040
	LEDGER BRACK	ET	
5%*	ITEM # 183011401	DESCRIPTION FF-EVOLUTION-LEDGER BRACKET	UPC # 811397030125

	Product	Overview	
1 <sup>13</sup> /a <sup>4</sup>	F10 BRACKET ITEM # 183041601	DESCRIPTION FF-EVOLUTION-F10 BRACKET (BOX 10)	UPC # 811397030453
5	<b>F50 BRACKET</b> ITEM # 183021601	DESCRIPTION FF-EVOLUTION-F50 BRACKET	UPC # 811397030118
	SINGLE HANGE ITEM # 183102001	ER BRACKET DESCRIPTION FF-EVOLUTION-SNGL HANGER BRACKET	UPC # 811397030071
	DOUBLE HANG ITEM # 183202001	EER BRACKET DESCRIPTION FF-EVOLUTION-DBL HANGER BRACKET	UPC # 811397030064
	<b>45° BRACKET</b> ITEM # 183451401	DESCRIPTION FF-EVOLUTION-45 DEG BRACKET	UPC # 811397030101
5%*			

	DIM LOUST DDA	CKET	
Ĩ	ITEM # 183031801	DESCRIPTION FF-EVOLUTION-RIM JOIST BRACKET	UPC # 811397030095
5%			
	BLOCKING		
	ITEM # 188122001	DESCRIPTION FF-EVOLUTION-12OC BLOCKING	UPC # 811397030033
10"	188162001	FF-EVOLUTION-16OC BLOCKING	811397030026
A A A A A A A A A A A A A A A A A A A	STRAP ITEM # 187104201 187204201	DESCRIPTION FF-EVOLUTION-12OC STRAP FF-EVOLUTION-16OC STRAP	UPC # 811397030002 811397030019
	SELF-DRILLING	SCREW	
100	ITEM #	DESCRIPTION	UPC #
	183990341	FF-EVOLUTION 3/4" BLACK SELF-DRILLING SCREW (BAG 250)	811397030255
-	ITEM # 183280601	DESCRIPTION FF-BLACK SAND (BKSND) AEROSOL TOUCH UP	UPC # 811397030736
COR TRESS Mass Sand Rich Arrow Control of Arrow Control of Arrow Harrison Control of Arrow Harris		PAINT	