





#1 BRAND IN STEEL DECK FRAMING

At Fortress, we break through barriers and push the building industry forward through innovation and a commitment to excellence. That's why we created Evolution steel deck framing, a complete system.

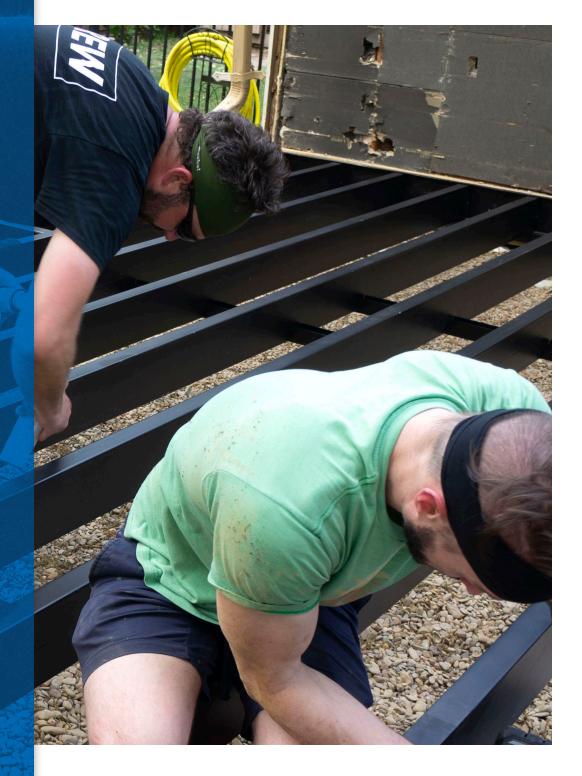
Steel is stronger, straighter and lasts longer than wood. Steel opens up new possibilities, with greater spans and the versatility to work with any type or brand of decking.

Choose the trusted strength of our steel. Build confidence with Evolution, the only complete steel deck framing system on the market. Experience unequalled support as you forge ahead and leave others in the sawdust.

PROVEN PERFORMANCE. **SMARTER SOLUTIONS™**

Since 2002, Fortress Building Products has been a trusted solutions provider, forging durable, steel and aluminium products with a drive for constant innovation. Its line-up of steel deck framing, railing, fencing, lighting and pergolas is durable, low maintenance, high strength and easy to install.

SMARTER STEEL FRAMING SYSTEM DESIGNED BY DECK BUILDERS, FOR DECK BUILDERS.





BUILDING MATERIALS, THEN AND NOW

We've relied on wood construction for centuries — for bridges, oil derricks and even warships. Once we learned to work with steel, however, builders abandoned many wood structures in favor of durable steel. Today, leading deck builders around the world are choosing sustainable steel framing over old-fashioned wood framing.



COMPARISON STEEL WOOD VS

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Wood Framing

#1 BRAND IN STEEL DECK FRAMING



WHY EVOLUTION STEEL DECK FRAMING?



EASY TO INSTALL

Designed and engineered to look and install like wood. If you know how to frame with wood, you can frame with Evolution.



STRAIGHT, UNIFORM PIECES

Light-gauge steel
provides a perfectly flat
surface without crowning,
warping or cracking over
the life of your deck.
Builds flat, stays flat!



COMPATIBILITY

Evolution steel deck framing is compatible with any type or brand of decking, including composite, PVC, aluminium, tile, wood and tropical hardwoods.



BUILD BEYOND LIMITATIONS

Our steel deck framing has been engineered to provide greater spans between supports, resulting in fewer columns for less obstructed views.









BEST-IN-CLASS WARRANTY

We believe your framing should last at least as long as the decking it supports. Evolution carries a 25-year limited manufacturer warranty.



SMART INVESTMENT

Like all Fortress® products, Evolution by Fortress is designed on our core concepts of low-maintenance, durability, ease of installation and safety.



AESTHETICALLY BEAUTIFUL

The premium Black Sand powder coat provides an aesthetically pleasing look that virtually disappears when you're above or below your deck. Now you can build with or without fascia.



COMMERCIAL-GRADE STRENGTH

Commercial builders have relied on it for decades. Now you can bring the strength of steel into your home's outdoor living space.

ENVIRONMENTALLY SOUND



INSECTICIDE-FREE

Wood boards are often soaked with insecticide and fungicide. Because steel doesn't attract bugs and microorganisms, it doesn't require this type of treatment.



CLASS-A FIRE RATING

Class-A Fire Rating indicates superior fire protection. Know that your deck frame is the safest it can be and won't spread fire or put off nasty smoke fumes.





Meets the requirements of the CA SFM 12-7A-4A for use in all Wildland Urban Interface (WUI) zones. California Fire Safe Council Vendor.



Scan the QR to explore Evolution deck framing and steel stair framing.



GREAT FOR BUILDERS...

Evolution was designed to be installed like wood, without the difficulty and confusion of typical steel profiles. Evolution consists of a ledger, joists, beams, posts and blocking, making installation quick and easy!

MITED **25 YEARS**

Water territory and the second

PARTS SHOWN

- 1. S-Ledger (pre-spaced 12" & 16" O.C.)
- 2. Ledger Bracket
- 3. Joist (2"x6")
- 4. F50 Bracket
- 5. Strap (mid-span blocking)
- 6. Beam (2"x11")
- 7. Beam Cap
- 8. Post to Beam Bracket
- 9. Post (3½"x3½"x10')
- 10. Beam Blocking (12" & 16" O.C.)
- 11. Post to Pier Bracket
- 12. Single Hanger Brackets
- 13. Rim Joist (pre-spaced 12" & 16" O.C.)



PARTS NOT SHOWN (but available to cover virtually all needs/applications.)

- 14. Double Beam Track
- 15. Double Hanger Bracket
- 16. Double Beam to Post Bracket
- 17. Joist Cap
- 18. Curved Rim Joist

- 19. Rim Joist Bracket
- 20. 45° Bracket
- 21. F10 Bracket
- 22. Self Drilling Screw
- 23. Black Sand Touch Up Paint



CN: 5012566

Our steel framing and stair system is tested and approved in accordance with the CCRR 0313 to provide reassurance that our system meets or exceeds the quality, safety, sustainability, and performance standards you demand for your deck structure.

Build a 25-year warranty deck on a 25-year frame. Our Evolution steel deck framing and stair system is the next evolution in decking. If you know how to frame with wood, you can frame with steel, even on curves. The interlocking joist and ledger system lets you build sturdy, safe decks with less effort. Our powder-coated finish provides increased corrosion resistance and a more finished look. Discover a smarter steel framing system designed by deck builders, for deck builders.

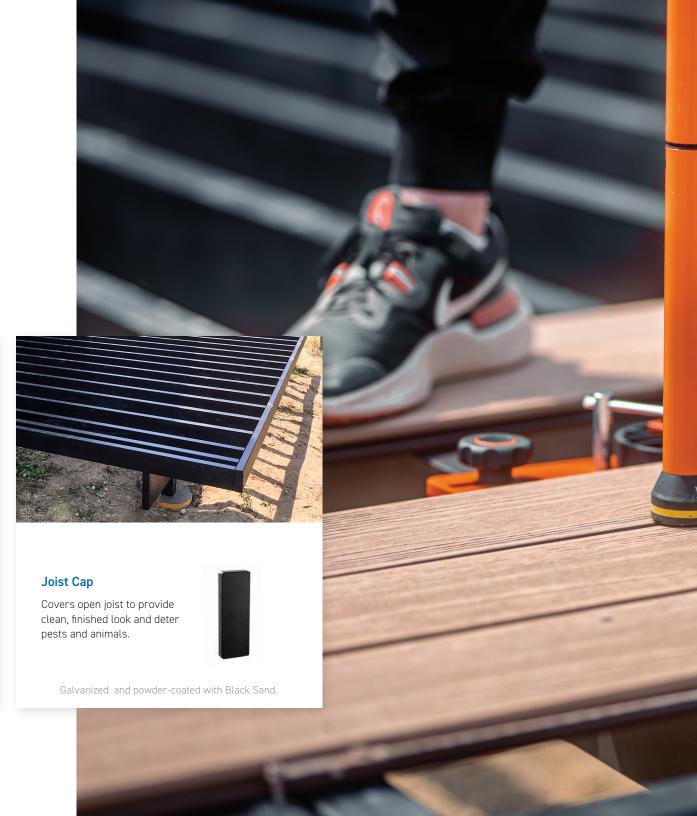




JOIST

Evolution's joists are a familiar shape that install quickly and easily with minimal fasteners. The steel joists will hold their shape, providing a perfectly flat deck surface that will not sag or warp over the life of your deck.





S-LEDGER

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 offer peace of mind for decades. The s-ledger is available with pre-punched, standard spacing options that simplify deck construction.



options, its "S" shape strengthens deck connections for

Galvanized and powder-coated with Black Sand.

sturdiness and safety.

Blank S-Ledger 12" (305mm) OC 16" (406mm) OC Lengths:

12' - 144" (3658mm)

20' - 240" (6096mm)

Evolution's blank s-ledger is designed to work with custom, non-standard joist spacing. The blank s-ledger can also be used around bay windows and other angled ledger attachments.



BEAM & DOUBLE BEAM TRACK

Evolution's beam has been engineered to achieve longer spans between supports, eliminating excessive posts and obstructed views.



Harnessing the strength of steel to span greater distances between supports, this beam reduces the number of needed posts to open up sight lines and reduce install time.





RIM JOIST

Evolution's rim joist incorporates the same pre-punched and non-punched system as the s-ledger for consistent, quicker installation without the hassle. Evolution's rim joists provide a solution for any installation application, including an option for curved decks. The rim joist attaches to the joist with minimal fasteners and provides a perfectly flat surface to attach trim or fascia.



To reduce time and effort needed for installation, this rim joist utilizes the same pre-punched and non-punched system as the s-ledger. With the versatility to create curved or straight decks, the rim joist creates a flat surface for fascia or trim to be attached to.

Galvanized and powder-coated with Black Sand.





POST & POST BRACKETS

Evolution's steel post and brackets provide the perfect solution to support your deck. The black powder-coated posts look great on their own or can be customized with the trim of your choice.





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Post / Pier Bracket

Lengths:

3.5" (89mm) 5.5" (140mm)

Galvanized and powder-coated with Black Sand.



Single Beam / Post Bracket

Lengths:

3.5" (89mm) 5.5" (140mm)

Used to secure post to single beam.

Galvanized and powdercoated with Black Sand.



Double Beam / Post Bracket

Lengths:

3.5" (89mm) 5.5" (140mm)

Used to secure post to double beam.



BRACKETS



F-10 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.

> Galvanized and powdercoated with Black Sand.



F-30 Bracket

Large 5"x2" angle bracket for general use.

Galvanized and powder-coated with Black Sand.



F-50 Bracket

Used with s-ledger, joist, and blocking as well as many other applications.

Galvanized and powder-coated with Black Sand.



Single Hanger Bracket

Used to secure joist to flush beam applications.

Galvanized and powdercoated with Black Sand.



Double Hanger Bracket

Used to secure double joist or create a double (2"x6") carry beam.



BRACKETS (CONTINUED)

Evolution's brackets provide steadfast connections and a streamlined installation process by matching up perfectly with other framing components.

Ledger Bracket

Used with the s-ledger and joist or fastened to a flush beam.



Galvanized and powder-coated with Black Sand.

45° Bracket

Used with the blank s-ledger when joist extends at an angle to keep standard spacing.

Galvanized and powder-coated with Black Sand.



Rim Joist Bracket

Inserts into joist at the end of the deck for attaching the curved rim joist.



Galvanized and powder-coated with Black Sand.

Post

20' Galvanized and powder coated post, with the added benefit of being a nominal 5.5"x5.5" size. Longer length and footprint make it even more versatile than our standard 3.5" post.

Galvanized and powder-coated with Black Sand.



Post / Anchor Bracket

Lengths:

3.5" (89mm)

5.5" (140mm)

Secures post to concrete landing or pier.

Galvanized and powder-coated with Black Sand.



Single Beam to Post Bracket

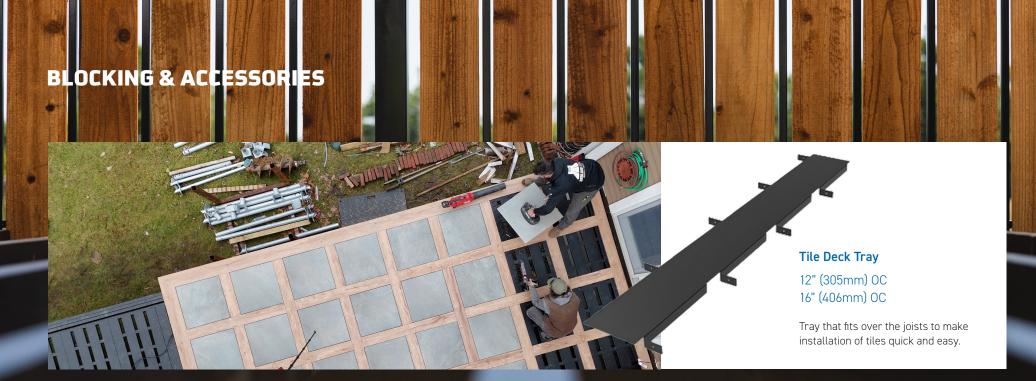
Used to attached a single Evolution beam or joist to the 5.5" post.

Galvanized and powder-coated with Black Sand.



Double Beam to Post Bracket

Used to attached a double Evolution beam or joist to the 5.5" post.





Beam Blocking

12" (305mm) OC 16" (406mm) OC

Manufactured to match the same spacing as the s-ledger for easy blocking of joist on a dropped beam.

Galvanized and powder-coated with Black Sand.



Galvanized and powder-coated with Black Sand.

Self-Drilling Screw 3/4" (19mm)

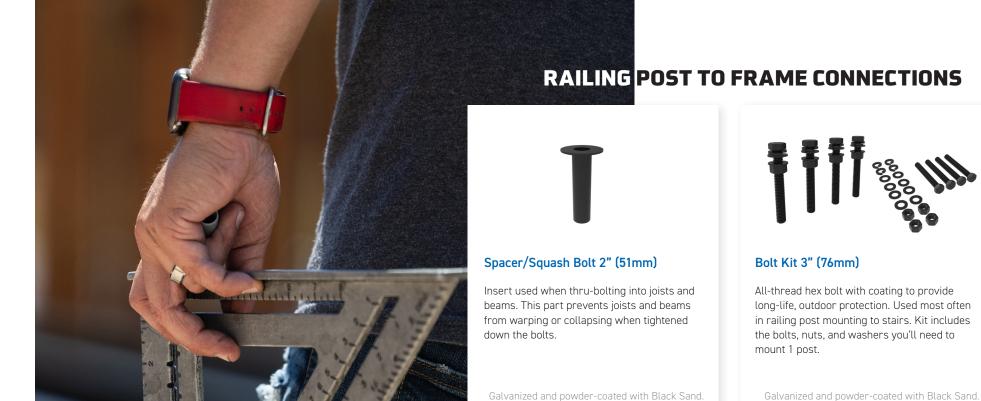
Black self-drilling metal screw.



Black Sand Touch Up Paint

Color matching paint for powdercoated Evolution parts. Use to touch up any imperfections as well as covering and protecting cut ends.







Bolt Kit 14" (356mm)

Hex bolt kit with coating to provide long-life, outdoor protection. Most often used to thrubolt posts to 2x11 beams. Kit includes the bolts, nuts, and washers you'll need to mount 1 post.

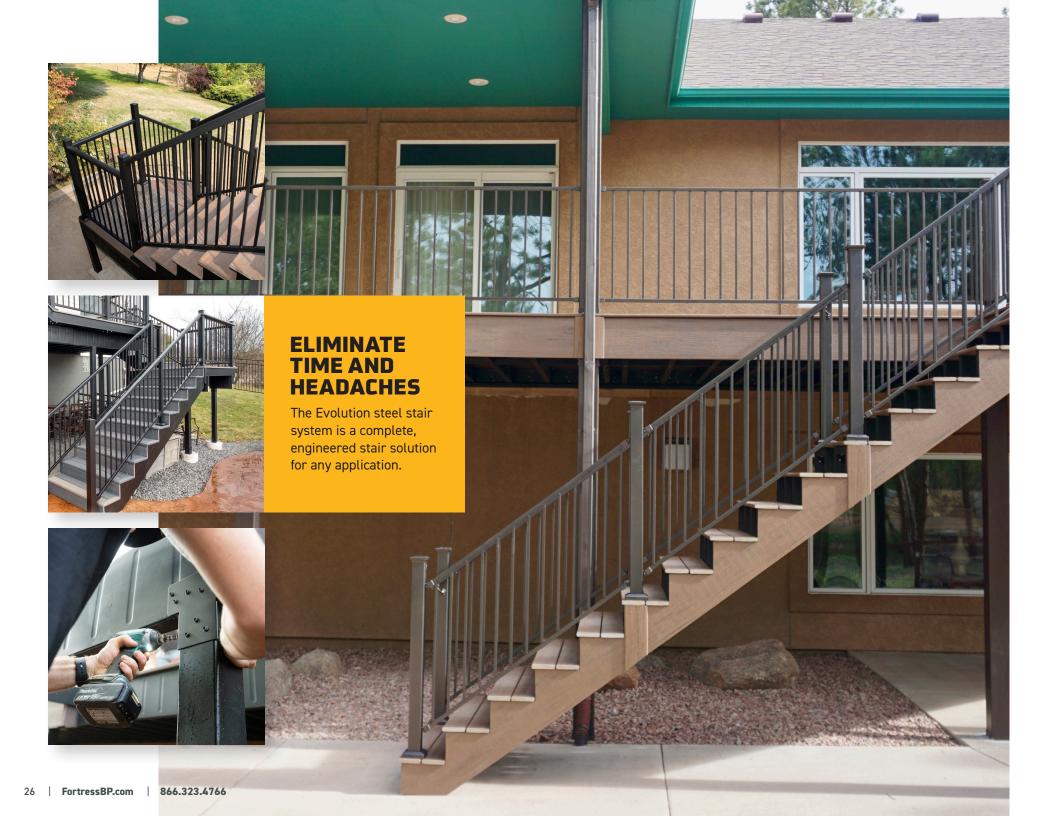
Galvanized and powder-coated with Black Sand.

Bolt Kit 9" (229mm)

Hex bolt kit with coating to provide long-life, outdoor protection. Most often used to thrubolt posts to 2x6 joists. Kit includes the bolts, nuts, and washers you'll need to mount 1 post.







EVOLUTION STEEL STAIR SYSTEM

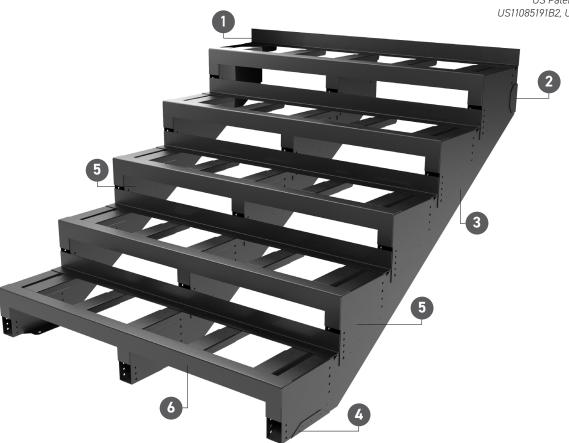
The stair components and brackets work with the Evolution joists and beams to provide a quick, easy assembly, dramatically decreasing installation time! The Black Sand powder-coat delivers an aesthetically pleasing modern look on its own or use with fascia/trim for a more traditional look.



US Patents US11085191B2, US11885134

PARTS SHOWN

- 1. Beam (or deck/structure)
- 2. Stair Strap
- 3. Stringer Evolution 2"x6" Joist or 2"x11" Beam
- 4. Stair Stringer Anchor Bracket
- 5. Preset 7"/11" Stair Bracket
- 6. 48" Stair Tray



PARTS NOT SHOWN (but available to cover virtually all needs/applications.)

Preset 178mm/279mm Stair Bracket | 1219mm Stair Tray



The Evolution Stair Components have been designed and engineered to eliminate the need for excessive stringers and work with any composite, PVC and tropical hardwood deck boards.



Fixed Stair Tray 48" (1219mm)

The 48" fixed stair tray allows for quick and easy installation when using the either of the preset stair brackets. The lateral supports are spaced to work with any kind of deck board and provide blocking for surface mounted posts.

Galvanized and powder-coated with Black Sand.



Fixed Stair Bracket 7" (178mm) 11" (279mm)

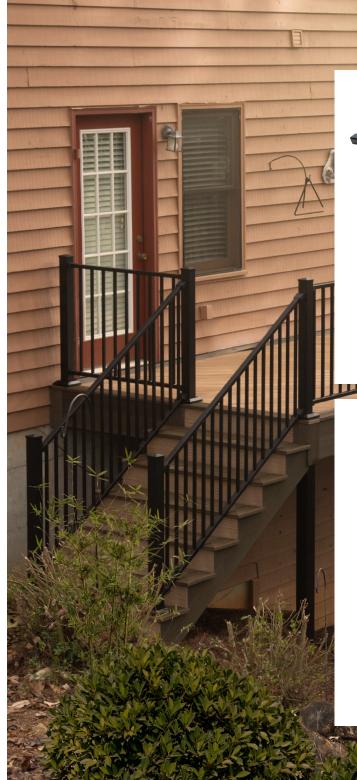
The Evolution fixed 7"/11" stair bracket is engineered to slide over the top of an Evolution joist and provide a perfect 7" rise and 11" run for the stringer. These brackets align directly with one another resulting in a rapid, worry-free stringer installation.

Galvanized and powder-coated with Black Sand.



Fixed Stair Bracket 7-3/4" (197mm) 11" (279mm)

The Evolution preset 7%"/11" stair bracket is engineered to slide over the top of an Evolution joist and provide a perfect 7%" rise and 11" run for the stringer. These brackets align directly with one another resulting in a rapid, worry-free stringer installation.





Adjustable Stair Tray 48" (1219mm)

The 48" adjustable stair tray allows for quick and easy installation when using the adjustable stair bracket. This tray has an adjustable run that can be set anywhere between 10" and 11". The lateral supports are spaced to work with any kind of deck board and provide blocking for surface mounted posts.

Galvanized and powder-coated with Black Sand.



Adjustable Stair Bracket

The Evolution adjustable stair bracket allows you to quickly and easily customize the stair's rise and run using the two provided set pins. Simply place the set pins in the desired holes and slide the stair brackets over an Evolution joist to complete the stinger installation.

Galvanized and powder-coated with Black Sand.



Stair Stringer Anchor Bracket

The Evolution stair stringer anchor bracket is reversible, allowing a secure, connection from the stringer to the footing, slab or pier under the last tread. Providing an aesthetically seamless transition from the stairs.

Galvanized and powder-coated with Black Sand.

Strap 8" (203mm)

General use 8" strap that can be used in multiple applications. Most frequently used to tie framing members together when building stairs.

Galvanized and powder-coated with Black Sand.



Stair Strap

The Evolution stair strap allows flexibility when connecting the stairs to the deck, landing or structure while securely holding the stringers in place.

EVOLUTION

THE STRENGTH OF S-T-E-E-L

SAFE - TOUGH - EFFICIENT - EASY - LASTING

Built from the same materials as our steel deck framing, our game-changing steel pergolas add style, character and peace of mind to any space. Relax knowing you can build or enjoy a pergola that's built to last. Our structural steel is dual layer protected against fire, corrosion, twisting, insects and rot. Plus, the powder coated finish provides a modern, contemporary look and a unique design aesthetic that makes a statement. Don't feel up to the challenge of a fully custom pergola, don't worry we have you covered with our out-of-thebox, pre-cut and pre-drilled pergola kit systems. Create higher ambience and lower maintenance with the strength of steel that's backed by our 25-year limited warranty.

Fortress Pergolas: Builds like wood, lasts for good.







BEAUTY & DURABILITY. COVERED.

MODERN, CONTEMPORARY LOOK

LIMITLESS DESIGNS

MAKES A STATEMENT

ALL-INCLUSIVE SOLUTION

STEEL IS RECYCLED AND RECYCLABLE





