

LORTIE DESIGNS

PRODUCT DATA SHEET

Lortie Concealed Fastening System

Nothing to see but the beautiful deck.

Up to 40%
lower labor cost, compared with the nearest truly hidden fastener competitor

1 screw
per clip at each framing member. A simple turn, tap and single screw.

Any decking
wood, composite or PVC, over all standard framing layouts

Patented
clip and groove system, stainless steel clip

A UNIVERSAL SOLUTION

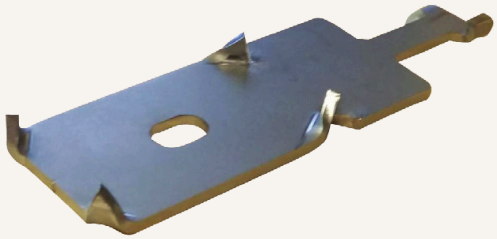
The fastener no longer decides how the deck looks.

Fasteners traditionally limit and determine the visual and structural design of a deck. The Lortie Concealed Fastening System unlocks total freedom of design while maintaining the highest level of aesthetic value.

We have created a simplified installation process and low or zero maintenance costs to open the door to the future of deck fastening.

> **A universal solution to the limitations of the current deck fastening market.**

Labor cost figure is Lortie Designs' stated comparison with the nearest truly hidden fastener competitor. Actual savings vary by project, crew and decking material.



Features and benefits

- Truly hidden
- Highest level of aesthetic value
- Freedom of design
- Simplified installation
- Faster installation
- Mitigates damage to deck material during installation
- Low maintenance
- Easy repair and replacement
- Safer: heat, buckling, metal penetration and more

DECKING MADE SIMPLE

A clip, a screw and a groove.

The Lortie Concealed Fastening System is made up of the Lortie clip, a fastening screw and a unique groove pattern that can be pre-ordered or milled in the field into any wood, composite or PVC decking. The system installs over all standard framing layouts. Clips are inserted into the groove at each framing member. A simple turn, tap and single screw is all it takes.



The Lortie clip. Nothing reaches the top face of the board.

The clip

Stainless steel. Teeth set into the framing member; the head locks into the groove.

The screw

One screw per clip fastens it to the joist, through the embossed hole.

The groove

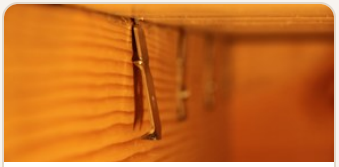
Two T-slots in the underside of each board. Pre-ordered or field-milled.

INSTALLATION

Seven steps, one board at a time.



1 Holding the clip parallel to the groove, insert it up into slot A of the decking, then rotate it perpendicular to the slot.



2 Make sure the teeth of the clip face the joist.



3 Slide the clip along the groove until the top rests against the joist. The top teeth hold the clip away from the joist at an angle, by design.



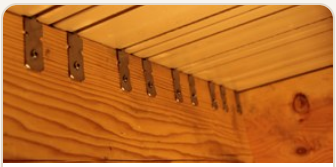
4 Pressing the plank against the joist and the spacer, tap the top of the clip to set its teeth into the wood.



5 Drive a screw through the embossed hole until the clip is flush with the joist. Switch to the opposite side of the joist and install a clip in groove B.



6 If you cannot switch sides of the framing member, install both clips on one side.



7 Continue plank by plank until the deck is finished. Where framing blocks the grooves, a small router cuts an additional T-groove for the clip.

The result

A solid deck with nothing showing on the surface: no face screws, no plugs, no marked boards.

Follow all installation methods required by the manufacturer of your decking product so you do not void its warranty.

A BEAUTIFUL DECK EVERY TIME

Built right, built once, enjoyed forever.

The pitfalls of traditional fasteners have created maintenance issues and aesthetic degradation over time. The universality and simplicity of the Lortie Concealed Fastening System allows for the design and building of the highest quality deck: built right, built once, and enjoyed forever.

01

Enhanced aesthetics, universal application, simple installation

Homeowners, architects, builders, contractors and manufacturers derive maximum value without increasing cost. A whole new range of design choices, with a simple installation approach that saves time.

02

More effective and efficient installation

Start, stop and skip planks and sections. Contractors keep the job site moving with no workflow disruptions while complicated parts of the build are resolved, and install detailed planks at the most productive time.

03

Warranty and repairs

Finally, simple repairs. Homeowners, builders, contractors and property managers can quickly repair ANY plank, regardless of the original fasteners used, without removing neighboring planks.

04

Less heat on your feet

The geometry of the concealed fastening system lets cooler air from beneath the deck flow closer to the core of the deck material. This can help reduce the surface temperature of the deck and limit thermal expansion.

PREMIUM DECKING MEETS PREMIUM FASTENING



Ipe hardwood deck, no fasteners on the surface.



Stair treads, fastened from below.

Deck design and installation
Flexibility that opens new options in premium deck design.

Stair treads
Unique stair treads that can be pre-built for any job.

Repairs anywhere
Repair any section without removing unnecessary planks.

Temperature moderation
A radiator effect that helps lower deck surface temperature.

WHO IT IS FOR

Contractors and builders

Faster, cleaner installs, a finish with nothing showing, and repairs that touch a single plank.

Distributors and lumber dealers

One clip system for wood, composite and PVC lines. A clip at every framing member on every board, with no color or grain matching to stock.

Lumber mills and millwork shops

Mill the Lortie groove into the decking you already produce and sell it pre-grooved, ready to install.

SPECIFICATIONS

Lortie clip

HEIGHT	2.625"
WIDTH	0.8125"
DEPTH (MAX)	0.4375"
WEIGHT	0.02866 lb
VOLUME	0.0989 in³
MATERIAL	Stainless steel
CLIPS PER 100 SQ. FT.	450 approx.
FASTENERS PER CLIP	1 screw
GROOVE	2 T-slots per board

COMPATIBILITY

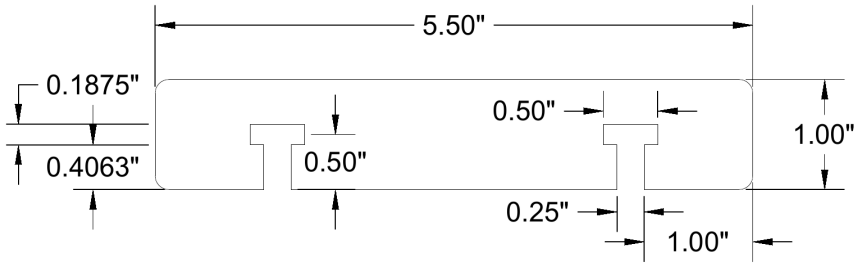
Works with

- Hardwood, softwood, composite and PVC decking
- All standard framing layouts
- Wood and steel framing
- Decks that use side fasteners
- First board, last board, repairs and stair treads
- Versatile mounting and spacing options
- No color or grain matching
- Pre-ordered grooved stock or field-milled grooves
- Can combine with low-voltage wiring to melt snow

ROUTER PROFILE FOR MILLING MATERIALS

Decking groove profile

After verifying this application method with your material manufacturer, use this milling profile to have your stock properly grooved. Shown on a 5.50" x 1.00" board.



HINTS, TIPS AND HELP

- Working alone, use a clamp to hold the material while you fasten the clip.
- If a framing member runs parallel to the groove, a small router can cut a perpendicular groove. Use this only where the plank is fully supported along its length.
- Picture-frame the decking with the same material to keep movement consistent across the deck.
- Let PVC and composite planks reach the same temperature before cutting to length, to prevent uneven lengthwise movement.
- Let wood planks acclimate on the framing to prevent uneven widthwise movement from varied moisture content.
- Construction adhesive is recommended for added holding power and to help prevent squeaking as boards settle.
- Skip planks around railing posts and obstacles and come back to them at the most productive time.

ABOUT LORTIE DESIGNS

Lortie Designs is made up of engineers with decades of combined experience in the construction and engineering industries. Our mission is to solve real-world construction challenges through innovative products that fuel the imagination of industry professionals, allowing them to build faster, stronger and without limits.

Install it. Stock it. Mill it.

Contractors, distributors, lumber dealers and mills: tell us about your business and we will follow up with specs, the groove profile and supply terms.

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