

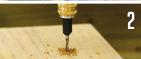
DECKWISE® INVISIBLE TERRACE CLIP INSTALLATION ISNTRUCTIONS

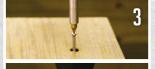
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Ipe Clip® products are protected under one or more of the following patents: EXTREME™ Ipe Clip® Series - U.S. Patent Numbers D485,160 and 8,464,488.

Original, "round", STANDARD Ipe Clip® - U.S. Patent No. D470,039; licensed under U.S. Patent No. 6,402,415



















Step 1: First Deck Board Installation

Apply Bituminous strip or tape (if available) or a bead of exterior adhesive to your sleeper joists roughly 9,5mm in width. If working with adhesives, you should consider applying this as you go. This will help prevent the adhesive from drying too quickly. It is important to note that adhesive does increase hold-down strength, but will not stop timber rot. Bituminous strips or tape helps stop joist timber rot and also acts as a seal around fixing screws. Although joists may appear level, fluctuations in weather can trigger plank movement. Both Bituminous strips or tape and/or adhesive will additionally aid the prevention of squeaking from uneven joists in the future.

STEP 2: Drill a 3,2mm pilot hole

Utilize a 3,2mm drill bit to pre-drill a screw pilot hole for driving the initial screws. Make sure to drill deep enough to penetrate the plank but NOT the joist underneath. All Invisible Terrace Clip Kits include a 3,2mm High Speed Drill Bit. We suggest using the 3-in-1 Drill & DriveTM Drill Bit Set (not included in Kits), which has a 3,2mm drill bit, 9,5mm countersink bit, and screw gun T15 Star tip that will assist in speeding up this procedure.

STEP 3: Drill a 9,5mm Countersink Hole

Utilize a 9,5mm countersink bit to drill a hole roughly 6,4mm to 9,5mm deep (dependent on your plank thickness) for every screw to be concealed by a hardwood plug. Be certain your countersink bit is sharp and cuts a clean edge.

STEP 4: Drive a deck screw through the countersunk hole

Next, firmly drive a terrace screw into countersunk hole and into the sleeper joist beneath. (All EXTREMETM Clip Kits contain extra screws for starter planks.) Hardwood Plugs will next be fitted into the countersunk holes to hide the screws and create a family safe surface, free of dangerous screw heads.

STEP 5: Apply Glue Inside Countersunk

Hole (POLYURETHANE BASED RECOMMENDED)

Drop a small dab of timber glue (Gorilla Glue® is recommended) inside of the countersunk screw hole drilled in

the previous step. This will guarantee the timber plug will not back out in the future. Additionally, the glue will function as a moisture barrier, plugging the countersunk screw hole.

STEP 6: Place a Hardwood Plug Inside Countersunk Hole

Insert a 9,5mm tapered Hardwood Plug and knock it down using a hammer (so it fits tight within the hole). Be sure to wipe away and remove any excess glue that may be forced out. NOTE: To conceal the plug as much as possible, we recommend aligning the timber fiber grain of the plug with the plank fiber grain.

STEP 7: Hammer and Flush Cut the Plug

After the plug is hammered in place and the glue has dried, cut off any excess timber material above the plank surface. You may achieve this by utilizing a flush cut pull saw, belt sander or an orbital sander with 80 or 120 grit sandpaper.

STEP 8: Sand and Prepare for Hardwood Oil Finish

Sand smooth all areas where a plug was installed to be sure it is flush with the plank surface. When sanding is completed, we encourage using a natural wood oil finish for a striking natural wood color over the entire terrace. A water based oil finish with a slight tint of brown color will bring out the natural wood grain and provide UV protection.

STEP 9: Cut Slots for Invisible Terrace Clips

Utilize either a biscuit jointer or a router (with a 4mm X 12,7mm slot cutting bit) to cut a slot in the edge of your plank above each sleeper joist. Center this groove on the edge of the plank so there is a symmetrical profile. This will provide the best results when using DeckWise® EXTREMETM Terrace Clips.

NOTE:Pre-grooved timber planks are readily available through many building and timber suppliers. If you are working with pre-grooved planks, overlook this step and move forward to Step 10.

Tools Needed

ELECTRIC SCREW GUN, BITS & TIPS - Used for drilling pilot holes and installing terrace screws. (A cordless screwgun with an adjustable clutch is advisable so torque can be precisely set to prevent over-tightening of screws.) Use a 3,2mm drill bit and a 9,5mm countersink bit or the 3-in-1 Drill & Drive™ Drill Bit Set.

BITUMINOUS STRIPS/TAPE - Used to prevent sleeper joist timber rot as well as sealing around timber screws.

CAULK GUN & EXTERIOR CONSTRUCTION ADHESIVE - Used as a leveling agent for uneven joists.

BISCUIT JOINTER* Typical cabinet maker tool, obtainable at most building & home improvement stores - Used to create a groove or slot in the edge of the terrace plank to enable insertion of invisible fixing clips.

ROUTER* Can be used if you do not have access to a biscuit jointer, a #20 biscuit cutting router bit (also called a 5/32" slot cutting bit) will work fine. This method is actually preferred by some installers.

by some installers.
*Not required for use with pre-grouved decking

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All DeckWise® Hidden Deck
Fasteners are proudly engineered
and manufactured in our US facility.

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INVISIBLE TERRACE FIXING INSTALLATION, (CON'T)



STEP 10: Predrill a Pilot Hole (FOR HARDWOOD DECKING ONLY.)

Place one terrace clip inside the edge slot or groove of the terrace plank above each joist for installation. Where two planks meet on a single joist, only one invisible clip is required. Drill a 3,2mm pilot hole at a 45° angle for every screw while installing terrace clips into the plank. You only need to pre-drill through the hardwood plank, not into the joist. Pre-drilling will help prevent plank splintering and will make certain the terrace plank is held tight to the joist by the screw.



STEP 11A: Installing Invisible Terrace Clips (USE 11A FOR HARDWOOD TERRACES ONLY)

Drive a stainless steel screw at roughly a 45° angle through the hole in the middle of the invisible terrace clip down through the terrace plank, and then into the sleeper joist below. Screwing should not take a significant amount of downward pressure to secure the plank. After the plank is secured to the joist, install the next fixing over each following joist. A screwgun with a clutch setting option works perfectly for this, as you can adjust the clutch to prevent overdriving screws. Finish securing the plank using one EXTREMETM clip and one screw per joist. Where two planks meet on a single joist, only one centered fixing is necessary at their joining point.

END-TO-END-PLANKS: How to install "butt Joints" (HARDWOOD & COMPOSITE TERRACE MATERIAL)

Where two planks meet on a single joist, the preferred method is to use a sister joist parallel to the main sleeper joist. Install 2 (two) DeckWise® Hidden Deck Fasteners — one on each sleeper joist — where the planks meet. However, only one centered terrace clip can be installed at their meeting point.



STEP 11B: Installing Invisible Terrace Clips (USE (11B) FOR COMPOSITE/PVC DECKING ONLY.)

Drive a stainless steel screw straight down a 90° angle through the center of the EXTREME™ clip and down into the sleeper joist. It should not take a significant amount of torque to secure the plank. After the plank is secured to the joist you may install the next fixing on the next joist. A screwgun with an adjustable clutch setting option preferred for this to prevent overdriving terrace screws. Continue to secure the plank with one clip and one screw above each joist. Again, where two planks meet on a single joist, only one centered fixing is necessary at their point of joining.



STEP 12: Installing the Next Plank Over the Exposed Side of the Invisible Clip

Slide the next terrace plank over the installed invisible hardwood clip. The clip will protrude outward from the previously secured plank. Once again, if you are not using pre-grooved planks, use a biscuit jointer or a router (with a 4mm X 12,7mm slot cutting bit) to cut a slot or groove in the plank directly above each joist. This slot will be slid over the clip and not secured with a screw. Remember, this next plank will again have terrace clips installed on its opposing edge.

NOTE: If using ExtremeKDTM or Extreme4TM invisible terrace fixings, utilize the DeckWise® plank Spacer Wedge tool included in each kit. Allow the wedge leg on the clip in combination with the spacer wedge tool to dictate the gap spacing. This will ensure the incorporated fixing wedge legs are not mistakenly over compressed during initial installation. Pull up and remove the Spacer Wedge tools after each terrace plank is secured. Repeat steps 10-12 until you reach the final plank.

Repeat steps 10-12 until all deck boards are installed up to the last board



STEP 13: Final Terrace Plank Installation

On the final terrace timber plank, invisible fixings will not be installed. It is required to secure the outside edge of the last plank with stainless steel screws and timber plugs. Screws will be hidden inside countersunk 9,5mm holes and filled hardwood plugs supplied in each kit. Additionally, we suggest applying a small amount of a quality adhesive on the outer timber sub-frame. (This will be under the last timber plank at the outer edge of the terrace.)

Recommended Tools and Wood Oil Finish



DRILLEARIVE

Using the DeckWise® Drill & Drive™ tool to build your deck makes predrilling, plugging, and driving screws much faster than standard drilling and driving.



Helpful Installation Tips

- If the fastener is tipping down when screw is installed, making the next board difficult to slide on, reinstall the screw to stand it more vertical. The screw should be installed at approximately a 45° to 65° angle.
- Do not over tighten screws. They should be flush or slightly above the surface of the DeckWise® fastener.
- Use an end wax on end grain cuts to help prevent checking. Ipe Seal™ or similar product is recommended



HARDWOOD

The Hardwood Wrench™ is a self-locking board straightening tool with 500 kg of bending force and works seamlessly with DeckWise® Hidden Deck Fasteners to hold deck boards straight while fasteners are being installed.