

BB evolve installation instructions



Please inspect the product fully prior to cutting, jointing or installing, noting colour, texture and edge appearance.

Any consequential fitting costs in reference to these visible discrepancies may not be accepted following installation.



Thank you for choosing Evolve. You have made an excellent choice and we know you will be proud of the result you will be able to achieve for your clients.

The big idea with Evolve was to provide beautiful and desirable worksurfaces at affordable prices.

Getting started

All professional kitchen installers have the skills to install Evolve. If you're regularly installing laminate worktops to a high standard, the move to Evolve is straight forward. As with any new product the best advice is held in the instruction guide. Please take the time to thoroughly read this guide before starting work.

Also check the worktops for colour compatibility, texture and edge appearance before commencing installation. Time spent understanding Evolve's simple processes now will ensure a delighted customer later!

Front cover:
Marmo Calacatta 12.5mm ultra-slim worksurface
and upstand in ultramatt texture. Image shows
Belfast sink and drainer grooves with exposed
white core.

storage, handling & planning

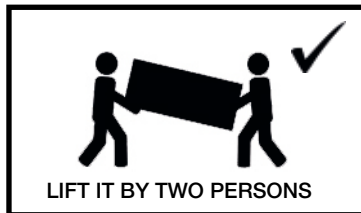
Storage

Evolve worktops should always be stored flat, level and ideally kept in the environment where they will be fitted for 24-hours to correctly condition the worktops.

Handling

Before handling please ensure adequate manpower is available to safely lift the worktop.

Worktops should always be carried by two people. When carrying manually, we advise that it is held vertically along the width. Do not carry flat.



Planning

The positioning of the joints is very important so careful planning is required to achieve the best results. Joints should not extend across any hob or sink cut-out and should always be supported.

Appliance considerations

Any heat generating appliances, such as an AGA, should be positioned to leave a minimum of 50mm from the edge of the worktop. Dishwashers, washing machines or tumble dryers will need additional support at the rear edge of the worktop. For free-standing appliances we recommend the unsupported length to be a maximum of 600mm. Maximum overhang of 250mm may need additional support or framing.

Thermal expansion

Thermal expansion for Evolve is 1mm for every metre. A gap of at least 3mm should be left at each end of the worktop to cater for potential expansion.

installation tools

The use of good tools will ensure a superior, professional finish.

Hand held circular saw - Use a circular saw with high quality TCT triple chip blades for a fine finish cut, plunge type saws are preferred as they give a more precise finish.

Dust extraction unit

Hand router - A hand router can be used for the final sizing of exposed edges. Allow at least 2 - 3mm oversize for final pass. A variable rotation speed and high quality double flute tungsten carbide tipped cutter is used for straight cuts, mitre joints and cut-outs.

Biscuit jointer - Biscuits help strengthen and align joints and are mandatory. Use No.20 size biscuits.

Palm sander

Jigsaw - Used for completing cut outs and removing waste material prior to trimming with metal fine blade.

Bushboard Evolve finishing kit - Finishing exposed edges and drainer grooves, undermount sink inserts (pk12), insert drill with depth stop, M4 screws (pk12), aluminium tape - used to reduce heat transfer between hob and internal cut-out.

Electric drill - Standard high-speed drill bits and bi-metal hole saws are suitable for Evolve worktops. DO NOT USE AUGER OR SPADE BITS!

Edge/profile trimmer - To apply a profile on any exposed cut edges use a roller guided trimmer with a profile TCT cutter.

Suction clamps - Used to pull worktop joints together.

G clamps

Hot melt adhesive gun and wooden blocks, used with G-clamps to pull worktop joints together.

BB Complete - Colour compatible with the worktop for joints, sealing sinks and adhering upstands.

White Spirit and lint free cloths.



Top Tip: Sharp blades and cutters give a precise finish!"

cutting and scribing evolve

Evolve is a hardwearing surface and as such use of the correct, well maintained, sharp cutters will produce a professional finish.

Cutting

Evolve worktops are hardwearing and require maintained equipment and clean, sharp cutters to produce a professional finish that ultimately saves time and effort.

Cutting Evolve worktops can be carried out using a portable hand-held circular saw. Plunge type saws are preferred. Decorative face down gives best cutting results.

- Using a plunge saw or circular saw fitted with a TCT triple chip blade following a guide rail or straight edge plunge in three stages of 4mm depth increments and complete the cut.
- All joint edges and final finished ends can be skimmed using a hand router with a sharp cutter. Allow for 2 - 3mm for final skim to size.
- Slow or soft start tools must achieve full speed before cutting to avoid burning.
- Ensure all worktops are adequately supported during all cutting processes.
- Having a sharp saw blade or router cutter is the key to a thoroughly unassuming joint.

Scribing

When scribing the worktop surface to the wall with a circular saw or jigsaw (metal cutting blade), sand top and bottom edges to remove any chipping that may have occurred during cutting.

AVOID LEAVING SQUARE OR SHARP INTERNAL CORNERS!



Bosch blades give excellent results!

jointing and bonding evolve

BB Complete is a coloured moisture curing adhesive that is ideal for sealing the joint between two worktops.

Fixing to cabinets

BB Complete is also available in a non-pigmented version which should be used to bond directly to the cabinets.

When bonding to cabinets the best practice is to apply a few beads to the mounting batten or rear of the cabinet and a single bead of BB Complete on the front edge of the cabinet to bed the worktop onto.



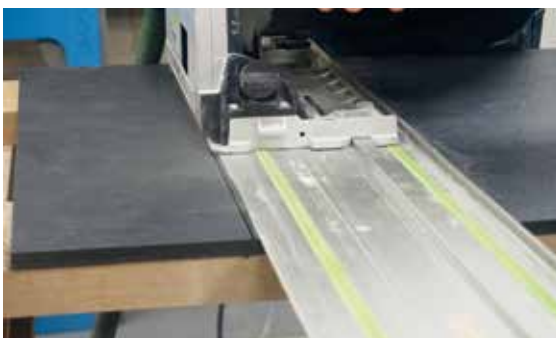
Joint layouts - straight, corner and peninsula

Evolve worktops are supplied with square cut edges on all sides. All joints can be formed in two ways:

- Use your standard worktop jig to router a mason mitre arrangement
- or
- Simply trim any excess with a straight edge and router to form a butt joint.

Joint assembly

- The worktop edges to be bonded together must be machined, straight and square ensuring both surfaces are exactly parallel to secure a good discreet joint.



- Using a biscuit jointer cut biscuit slots/pockets to suit No.20 biscuits. Cut pockets 4mm down from the top face. Typically, 5 to 6 biscuits per joint minimum!



- Pull together the two pieces to be joined dry fit only. If gaps or chipping have occurred re-skim. Clean the surfaces to be joined.
- Apply BB Complete adhesive to the biscuit grooves. Apply a bead of BB Complete adhesive along the joint.
- Bring the two worktops together and align the front edges and level top surface using either of the two methods below:

Suction cup method

This is the easiest method to pull both edges together and level the joint.



drilling evolve

Hot melt blocks method

Wooden blocks can be adhered temporarily to the worktop using hot melt adhesive and G-clamps to pull the two worktops together.



Wait 15-20 minutes before cleaning the excess BB Complete from the surrounding surface of the joint with white spirit and a lint free cloth.

After an hour the clamps can be removed; take care when doing so to ensure the joint remains fully closed. Blocks should be lightly tapped to remove and any residue removed with a laminate scraper and white spirit.

Excess adhesive must be removed at this stage from the joint before it cures.



Drilling

Holes and inserts can be drilled through or part of the thickness of the worktop.

- If going through the full worktop then clamp a sacrificial piece of chipboard or MDF on the underside to avoid break out.
- HSS drill for undermount brass sink inserts is included in the Evolve installation kit.
- For undermount brass sink inserts, drill a pilot hole to a depth of 8mm maximum and insert a brass spreading dowel from the Evolve installation kit.

8mm deep maximum

- Tap in lightly using a small hammer, ensuring that the opposite side of the material is adequately supported to avoid unwanted breaking.
- Tap holes should be cut completely through the Evolve worktops allowing the worktop to support the tap. Use a bi-metal hole saw only. Clamp a sacrificial piece of chipboard or MDF on the underside to avoid break out.
- Edge of the tap hole should be minimum of 50mm to the edge of the sink cut-out.



sink installation

Evolve worktops are ideally suited for inset and undermount sinks.

Inset sinks

Stainless steel and composite inset sinks can be fitted by the following instructions:

- The distance between the inset sink cut-out and an adjacent seam joint must be a minimum of 150mm and a minimum of 40mm from the front edge of the worktop.
- Place the sink upside down on the face of the worktop and mark around the outline with a soft pencil. *Application of masking tape helps on darker colours!*
- Using the sink manufacturer's guidelines measure the internal cut-out requirements marking the worktop appropriately to create an inner line, this should allow the inset sink to fit cleanly into the aperture once the inner section is removed. Ensure all worktops are adequately supported during all cutting processes.
- Use a 10mm HSS bit drill each of the 4 corners of the inner line to create a clean radiused corner. This will prevent any potential stress cracking in the corners.
- Using a plunge saw or circular saw fitted with a TCT triple chip blade following a guide rail or straight edge plunge in three stages of 4mm depth increments and complete the cut meeting the drilled corners. Use a hand-held jigsaw to complete the cut-out into the radiused corners. *Support the waste piece at all times!*
- Once the cut-out is complete gently re-finish the inside of the cut-out with a 180 grit sandpaper to smooth the edges and eliminate any potential micro-fractures.
- Apply a bead of BB Complete on the face of the worktop around the cut-out and insert the sink.
- On the underside, secure the sink using the relevant sink clip adding wooden blocks or offcuts using BB Complete. *The Evolve undermount brass inserts could also be used.*

- Remove any excess BB Complete from around the outer rim of the sink.
- BB Complete requires 24-hours to become totally waterproof.



Top Tip: Support your Evolve worktop as you work through each process particularly at the point of creating the sink cut-out as this could lead to a temporary weakening of the worktop.



Caldeira 12.5mm ultra-slim worksurface, upstand and splashback all in ultramatt texture. Image shows undermount sink with exposed dark grey core.

the evolve undermount sink solution

Now you can complete the look with our innovative undermount sink solution.

Undermount sinks

Please note: When fitting Butler/belfast undermount sinks with Evolve worktops please refer to the sink manufacturer's instructions for correct support and fitting information.

Face cut-out

- Position the worktop "face up" and mark out the sink centre with a pencil.
- Ensuring the jig handing corresponds with the desired sink handing, centralise the jig and clamp in place using four clamps, one at each corner. Place and fix the inner template with hot melt and push down to act as a support for the router to stop any potential tipping.
- Cut into the face of the worktop with a router fitted with a 30mm bush guide and 1/2 inch router cutter, cutting in 3 stages of 4mm depth increments, taking care to keep the router cut vertical during each cut. **Support the waste piece at all times!**
- Using an edge profile/trimmer, profile the inner edge using a radius or chamfer cutter with a bottom bearing.
- Finish the cut-out inner edge using a palm sander with 180 grit paper followed by 240 grit finishing with 320 grit and scotchbrite pad. **Keep the pads flat and away from the decorative surface at all times!**

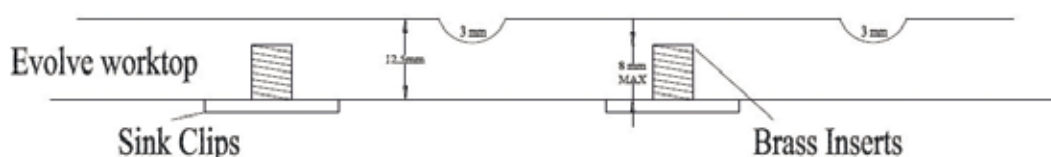


Fitting the sink

- First check the sink fits by assembling a dry fit. Place the inverted sink on the underside of the cut-out to confirm it centres when viewed from the face of the worktop. **Ensure the sink lip is completely flat as this will affect the bond between stainless steel and the Evolve worktop.**
- Place and mark where the sink clips are to be secured. Using the drill bit included with the undermount sink inserts drill a pilot hole to a depth of 8mm, place the brass insert into the hole and tap in lightly using a small hammer, ensuring that the opposite side of the material is adequately supported to avoid unwanted breaking.
- The undermount brass inserts should always be used rather than standard sink clips to avoid screwing into the material.



Once satisfied with the final fit and clip location, remove all clips and the sink in preparation for the final installation.



Final installation

- Thoroughly clean the two joining faces of the sink lip and the underside of the worktop around the cut area.
- Using BB Complete apply to the lip of the sink ensuring no gaps. Position the sink applying gentle pressure all round ensuring the BB Complete squeezes out on both the back and face edges of the cut-out creating a solid, waterproof bond. Centralise the sink and then tighten the sink clips using a screwdriver. **DO NOT OVERTIGHTEN!**
- Turn over the worktop and check sink position, then scrape off any excess BB Complete and clean up with white spirit.
- It is recommended to allow 24 hours before using the sink.

Top Tip: Support your Evolve worktop as you work through each process particularly at the point of creating the sink cut-out as this could lead to a temporary weakening of the worktop.



Please ensure the undermount sink inserts avoid the drainer groove positions, the inserts are designed to work in the entire thickness of the worktop.

Drainer grooves

(undermount sink installation only)

Top Tip: Using new and good quality cutters and working smoothly will reduce the final finishing time and provide an excellent finish.

IMPORTANT: Always process the drainer grooves after a radius profile has been applied to the inner edge. This is so the bearing follows a flat edge and not the drainer grooves.

- Apply masking tape to the surface to help position the grooves.
- Mark out the groove centre lines with a pencil ensuring they are parallel to the front edge of the worktop.
- Centralise the required groove in the jig over the marked out centre line and firmly clamp the jig in place.
- Use a router fitted with a 30mm bush guide and a radius cutter. Lock the plunge depth to 3mm. **Please note: Never cut deeper than 6mm.**
- Starting from the sink cut-out, plunge the router and enter the material, run smoothly along the jig to create the groove. Smooth use of the router will minimise hand sanding when finishing.
- Repeat the steps above to complete the remaining grooves.



Finishing drainer grooves

- Carefully hand sand the drainer grooves with 180, 240 grit paper then finish with 320 grit paper and scotchbrite pad. *Take care to keep the abrasive away from the decorative surface at all times!*

Lightning Greystone 12.5mm ultra-slim breakfast bar and slab-end in ultramatt texture. Image shows Lightning Greystone used as shelving.



profiling edges and upstands

Top Tip: Always router into the face, this will reduce the possibility of chipping and flaking.

- To match any exposed cut edges to the manufactured edges, simply use a 240 grit sandpaper attached to a palm sander to lightly soften the edge. The recommended profile is square but this will remove the sharpness of the raw edge. **Keep the pad flat and away from the decorative surface at all times!**
- For a more curved profile appearance, select a pencil round of 1 - 2mm. Ensure all router blades are sharp and chip free and all bearings in the router and cutters are sound, to prevent router chatter and deep cutting.
- Always use a router / trimmer fitted with a bottom bearing radius cutter.
- Finish the exposed edge using a palm sander with 180 grit paper followed by 240 grit finishing with 320 grit and scotchbrite pad. **Keep the pads flat and away from the decorative surface at all times!**



Shaping

- Place your jig on the worktop, secure it with clamps and then mark its position.
- Mark the outline of your shape by running an offset scribe around the jig.
- Use a jigsaw to remove the excess material following pencil lines.
- Always use a router to create the finished edge.
- Finish the exposed edge using a palm sander with 180 grit paper followed by 240 grit finishing with 320 grit and scotchbrite pad. **Keep the pads flat and away from the decorative surface at all times!**

Upstands

- Adjust to length and trial fit.
- Finish the exposed edge BEFORE FITTING using a palm sander with 180 grit paper followed by 240 grit finishing with 320 grit and scotchbrite pad. **Keep the pads flat and away from the decorative surface at all times!**
- Apply a bead of colour matched BB Complete to the bottom edge of the upstand and fit the upstand in place ensuring adhesive squeezes out along the full length, remove excess with a soft scraper and clean off residue with a lint free cloth soaked in white spirit.

hob installation

Most worktops have a gap between the bottom of the hob and item immediately below it. This gap has decreased due to Evolve worktops being 12.5mm thick. Hobs will also vary in depth and width, therefore to correctly fit some alterations may need to be made to the front rail at the top of the unit. It can be trimmed in the same way a sink cabinet might be adjusted.

A batten affixed directly to the wall will also help in supporting the rear of this area.

Evolve worktops are compatible with most hobs and fitting clips but should an additional packer be required to secure the clips, simply utilise the material cut out for the hob or wooden blocks adhered to the underside of the hob cut-out.

There are no issues if a cupboard is used directly below the hob, however if intending to position an oven or drawers please refer to the following recommendations.

Oven

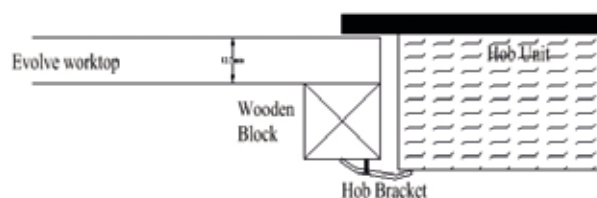
Recommended for single oven installation only. The shelf at the bottom of the unit can be lowered by 20 - 25mm by undoing the locating pins and replacing them further down the panels.

The front panel will then need to be trimmed by the same amount from the top and a fillet added to the space between the oven and worktop. Use the fitting clips provided to secure the oven.

Drawers

Pan drawers should be used rather than standard height drawers as the additional height maintains the closing capability of the drawer without interfering with the hob fitting. Alternatively, if standard drawers are preferred, a false top drawer (thereby a non-functioning drawer frontal) should be used.

Please note: These are recommendations only and may vary slightly depending on specifics of the cabinetry being used.



Finishing

Evolve worktops are supplied finished with no polishing or oiling required to the surface.

- Finish all exposed edges using a palm sander with 180 grit paper followed by 240 grit finishing with 320 grit and scotchbrite pad. **Keep the pads flat and away from the decorative surface at all times!**
- Ensure the sander is moved constantly over the exposed front edge keeping it flat on the edge and avoid tipping as this will cause a rounding effect. Wipe the edge surface clean with a damp cloth between each pass to remove abrasive particles.
- This process will remove any saw or router tooling marks and provide a smooth appearance to the edges.

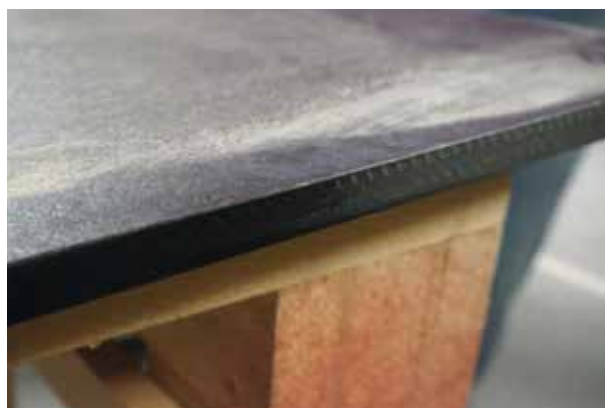


Image shows: Rough sawn edge, partially sanded.

Top Tip: A small amount of boiled linseed oil on a lint free cloth may enhance the appearance of exposed edges on black core finishes!

care and maintenance

Cleaning & care

Evolve worktops are easily maintained and simply require a regular wipe down with a mild detergent and water. Rinse with warm water and gently buff to dry the surface.

Staining

Evolve worktops have a solid, non-porous surface resistant to stains, mould, mildew and bacteria growth. We recommend normal everyday spills be wiped away without delay using a damp cloth to avoid any potential staining. If any discolouration appears due to coffee, tea or fruit juices, the first stage is to clean the surface using a mild detergent and water. If the stain remains try an even mix of domestic bleach and warm water making sure you protect your hands with gloves.

For more stubborn stains apply a non-abrasive cream cleaner to a non-abrasive nylon brush and rub gently over the stain. Finally, if the previous methods fail, try rubbing the area in a circular motion with a Eraser type foam pad in warm, soapy water. At the end of each stage rinse with warm water and gently buff dry the surface.

Please note: DO NOT use acidic or abrasive cleaners, expose the laminate to household bleach for prolonged periods of time, or apply excessive scrubbing.

Scuffs and scratches

Darker colours will show excessive marking, scratching and wear and tear more noticeably than lighter colours. Never cut anything directly on the worktop.

Resistance to heat

Please note: Never place any hot items directly from the heat source directly on to the worktop.

Evolve worktops can become damaged if hot pans, earthenware or dishes are placed directly from the oven or hob. To prevent surface damage from hot objects it is recommended to use a heat-resistant mat or stainless-steel trivet on the worktop.



For technical support on Bushboard products, please
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