

Karran®

Installation Guide



www.karran.com

This Installation Guide demonstrates simple methods and proven techniques for seamlessly installing Karran® undermount sinks in laminate countertops. While these methods are well developed and thoroughly tested, you may wish to modify certain aspects of the installation process to suit your own particular shop dynamics. Three processes are illustrated. The Bondo™ Process is excellent for use with all laminate finishes. The Standard Process works best with matte laminate finishes. The Postform Process must be used for all installations in postform countertops.



After removing the sink from its box, inspect it for damage. Check both the rim and the corners of the bowls for any signs of shipping damage.



Measure and mark the countertop indicating where the sink needs to be installed. A set back from the front edge of 2" to 2-1/2" is recommended but always take into account the specific circumstances of each installation relating to cabinet and plumbing placement.



Place the sink upside down on the substrate in the marked position, then using a pencil, trace the outline of the sink onto the substrate. Hold your pencil vertically. This will offset your cutout line by approximately 1/8".

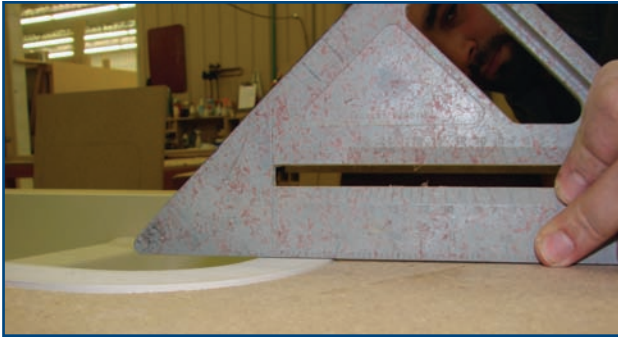


Using a jig saw, make the cutout. When doing more than one sink of the same model, save time by making a wood template and using a router. Remember to reduce the size of the template by the thickness of the router bit to be used.

If you have a CNC machine, go to www.karran.com to download DXF files.



Flip countertop over then screw in or glue and staple wood strips as supports to the underside of the opening. Make sure that they overlap the edge of the cutout by about 1/2". Using full length strips for support will prevent Bondo™ oozing out through the gap during application.



Flip countertop over and place the sink into the opening. The sink must sit higher than the top of the substrate by about 1/16". Adjust height as needed using strips of laminate.



Mix up Bondo™ or similar product. Center the sink in the opening then smear the Bondo™ into the gap around the sink. Fill the gap between the sink rim and the substrate completely. Leave to harden. Depending on the amount of catalyst added, this should take between 5 and 10 minutes.

While applying Bondo™, make sure sink remains centered in cutout.



Once hard, use a belt sander with a coarse grit sandpaper to sand the rim of the sink and the Bondo™. Keep the belt sander level so as not to sand substrate or sink rim unevenly.



Mark pencil lines on the substrate and sink rim, then continue sanding until all lines have been removed. Sink rim, Bondo™ and substrate should now be completely smooth and level.

Blow with compressed air to clean.



Place laminate that has been cut to size (oversized by your shops standard amount) over the countertop. Place hand through waste holes and trace the 4 corners of the sink onto the back of the laminate.
 Note: This may also be done directly after cutout has been made, prior to fastening undermount support strips.



Mark 4 points about 1-1/2" outside of these initial corner markings. Then place the sink cutout over this marked area, lining it up with the marked points. This is done to protect this area of the laminate where the sink rim bonds to the laminate from contact adhesive.

Spray back of laminate with contact adhesive.



Lay sink cutout over the sink and spray contact adhesive over substrate.



While contact adhesive dries, place masking tape around the bowl wall, about 1/8" below rim. This will help during the final trimming stage to remove drips more easily.



Clean the sink rim with denatured alcohol and a clean cloth.

Also clean the back of the laminate where sink rim will attach.



Prepare solid surface seaming adhesive. Remember to purge tube to ensure adhesive is mixing with catalyst. Apply a continuous bead about 1/8" back from the inner front edge of the sink. Bead should be between 1/4" and 3/8" wide. Be cautious not to exceed recommended amount. Most solid surface seam adhesive brands work fine. If Karran Solid Surface Seaming Adhesive is used, the integrity of the seam is guaranteed for 3 years from date of installation.



Adhere laminate to substrate.



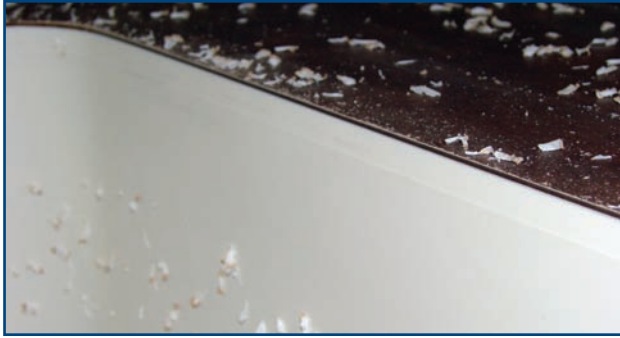
Roll the laminate as normal. Roll gently on the rim of the sink.



Place one or two sheets of particleboard over the sink area to provide even pressure while seam adhesive cures for approximately 30 minutes. Countertop should not be moved while adhesive is curing.



Once seam adhesive has completely cured, begin trimming process. Use a tilt-base trim router with a 1/4" double-fluted straight cut bit with bottom bearing. Set angle at 1° to 2° more than the bowl wall angle (shown on technical drawings on back cover). Run router around sink, remembering to twist router base in corners. A standard router with roundover bit or bevel bit with bearing set at the correct height may also be used for trimming.



Router bit should cut into the sink wall very slightly.



Sand the edge of the laminate and sink wall with a palm sander. Use a 150 to 220 grit sandpaper.

Finish by buffing sink wall with a 3M Scotch-Brite™ pad.



After sanding, the edge of the laminate may be sharp. Use a file at a 45° angle to soften the edge of the laminate.



If faucet hole placement is known, drill holes and then seal faucet holes with silicone as shown. Let silicone dry completely before installing. Or simply install the Faucet Hole Seal Ring included with the sink.

When using the Concord, Landin and Hampton models, no sealing of faucet holes or FHSR's are necessary.



If faucet hole placement is not known, place "Installing Faucets" label provided with your sink on the laminate deck where faucet holes will be drilled or simply include the FHSR's with the sink for the plumber to install, thus insuring the substrate is completely protected.



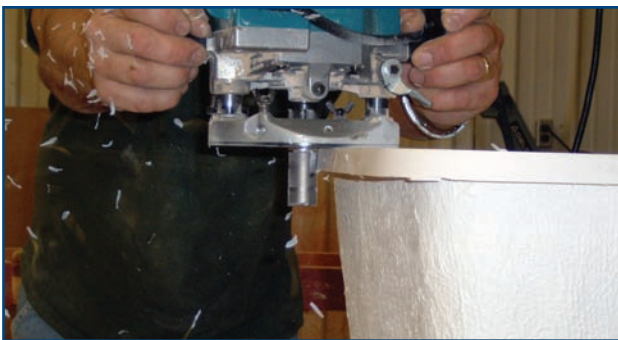
After removing the sink from its box, inspect for damage. Check both the rim and the corners of the bowls for any signs of shipping damage.



The depth of the sink rim needs to be 3/4" or slightly less. Your sink may already have been pre-trimmed at the factory. If not, make a simple template using one sheet of 3/4" particleboard and two strips of 3/4" particleboard trimmed to about 1" wide (depending on your bit length). Staple strips to flat sheet as shown here.



Place sink onto template and use a straight cut bit with top bearing to trim rim depth to 3/4".



The outside edge of the sink may have a taper to it, a result of the thermo-forming process. If this has not been trimmed by the factory, use the same router set up as in the previous step to remove the taper from this edge.



Measure and mark the countertop indicating where sink needs to be installed. A set back from the front edge of 2" to 2-1/2" is recommended but always take into account the specific circumstances of each installation relating to cabinet and plumbing placement.



Place sink upside down on the substrate in marked position, then using a pencil, trace the outline of the sink. Hold your pencil vertically. This will offset your cutout line by approximately 1/8".



Using a jig saw, make the cutout. When doing more than one sink of the same model, save time by making a wood template and using a router. Remember to reduce size of the template by the thickness of the router bit to be used.



Place sink into the opening to check for fit. A gap of approximately 1/8" all around the sink is recommended.



Place laminate that has been cut to size (oversized by your shops standard amount) under the countertop and trace outline of cutout onto the back of the laminate.



Place sink cutout on the marked area on the back of the laminate. Spray contact adhesive.



Adhere laminate to substrate.



Flip countertop over and ensure the back of the laminate is clean. Use a denatured alcohol for cleaning and compressed air to ensure that no wood particles remain on the back of the laminate.



Clean the rim of the sink with denatured alcohol.



Place countertop upside down on a hard, flat and level surface. If your work table is not perfectly flat, place an extra piece of 3/4" particleboard or sheet of solid surface underneath countertop to help establish a flat surface.



Prepare solid surface seaming adhesive. Remember to purge tube to ensure adhesive is mixing with catalyst. Apply a continuous bead about 1/8" back from the inner front edge of the sink. Bead should be between 1/4" and 3/8" wide. Be cautious not to exceed recommended amount. Most solid surface seam adhesive brands work fine. If Karran Solid Surface Seaming Adhesive is used, the integrity of the seam is guaranteed for 3 years from date of installation.



Place the sink into the cutout onto the back of the laminate. Wiggle slightly to spread adhesive. Center sink then place weight on each bowl to provide pressure while adhesive cures. Around 5lbs to 10lbs per bowl is sufficient. Some fabricators opt to use no weight at all.



Look through waste hole to check that adhesive has oozed out all the way around the rim of the sink. If an area shows no ooze, try place a little extra weight on this area. Do not remove the sink. Any gap can be filled after final trimming stage.



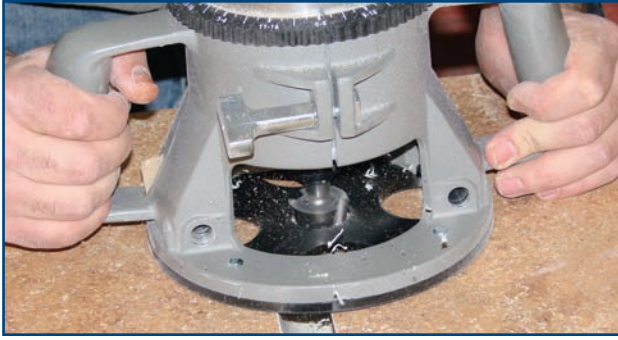
Once seam adhesive has cured completely, check that there are no high spots on the underside of the rim. Check this by sliding a wood support strip from substrate across rim. If it catches on the rim, sand that part of the rim with a sander until underside is flush with the substrate.



Fill gap between the sink rim and the substrate with silicone.



Attached wood strips around the rim of the sink to provide support. These may be screwed in place or glued and stapled. Do not place wood strips where faucets holes will be drilled.



Once seam adhesive has completely cured, begin trimming process. Use a tilt-base trim router with a 1/4" double-fluted straight cut bit with bottom bearing. Set angle at 1° to 2° more than the bowl wall angle (shown on technical drawings on back cover). Run router around sink, remembering to twist router base in corners. A standard router with roundover bit or bevel bit with bearing set at the correct height may also be used for trimming, as shown here.

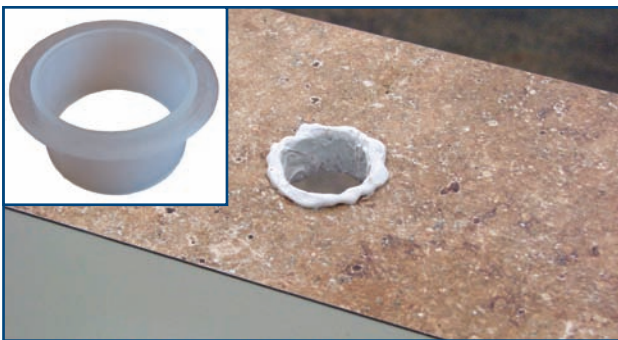


Sand the edge of the laminate and sink wall with a palm sander. Use a 150 to 220 grit sandpaper.

Finish by buffing sink wall with a 3M Scotch-Brite™ pad.



After sanding, the edge of the laminate may be sharp. Use a file at a 45° angle to soften edge of laminate.



If faucet hole placement is known, drill holes and then seal faucet holes with silicone as shown. Let silicone dry completely before installing. Or simply install the Faucet Hole Seal Ring included with the sink.

When using the Concord, Landin and Hampton models, no sealing of faucet holes or FHSR's are necessary.



If faucet hole placement is not known, place "Installing Faucets" label provided with your sink on the laminate deck where faucet holes will be drilled or simply include the FHSR's with the sink for the plumber to install, thus insuring the substrate is completely protected.



After inspecting the sink for shipping damage, check the depth of the sink rim. The depth needs to be 3/4" or slightly less. Your sink may already have been pre-trimmed at the factory. If not, make a simple template using one sheet of 3/4" particleboard and two strips of 3/4" particleboard trimmed to about 1" wide (depending on your bit length). Staple strips to flat sheet as shown here.



Place sink on template and use a straight cut router bit with top bearing to trim the rim depth to 3/4".



The outside edge of the sink may have a taper to it, a result of the thermo-forming process. If this has not been trimmed by the factory, use the same router set up as in the previous step to remove the taper from this edge.



Cut a piece of particleboard approximately 21" wide to use as a work surface. Lay this on a table then place countertop upside down on this particleboard. Pay attention to the non-drip edge. Make sure the countertop is lying completely flat.



Screw your premade male and female templates onto the back of the countertop in the position where the sink is going to be installed. Use a router with a 3/4" or 1" wide straight cut bit and set the bit to a depth 1/16" less than the combined thicknesses of the countertop substrate and the template.

Call Karran USA for instructions on template construction.



Run router around the templates, removing all the wood except the final layer which should be about 1/16" thick .



After routing process has been completed, you will be left with a 2" to 3" wide channel with a 1/16" layer of wood remaining on the back of the laminate.



Apply a solvent such as lacquer thinner or adhesive remover to the remaining wood. Place the solvent in a spray bottle then spray from the outside inwards. This helps in preventing seepage between laminate and substrate on the outer edge of the channel. Leave to soak in for 5 minutes.



Use a sharp chisel to scrap the remaining wood layer off the back of the laminate. Remember to keep your chisel level so that you do not dig the corner of the chisel into the laminate.



Use a wire brush or cloth with solvent to thoroughly clean the back of the laminate.



Prepare solid surface seaming adhesive. Remember to purge tube to ensure adhesive is mixing with catalyst. Apply a continuous bead about 1/8" back from the inner front edge of the sink. Bead should be between 1/4" and 3/8" wide. Be cautious not to exceed recommended amount. Most solid surface seam adhesive brands work fine. If Karran Solid Surface Seaming Adhesive is used, the integrity of the seam is guaranteed for 3 years from date of installation.



Place sink into the cutout onto the back of the laminate. Wiggle slightly to spread adhesive. Center the sink then place weight on each bowl to provide pressure while adhesive cures. Around 5lbs to 10lbs per bowl is sufficient. Some fabricators opt to use no weight at all.



Check through waste hole that adhesive has oozed out all the way around the rim of the sink. If one area shows no ooze, try place a little extra weight in this area. Do not remove the sink. Any gap can be filled after final trim stage.



Once seam adhesive has completely cured, check that there are no high spots on the rim. Check this by sliding a wood support strip from substrate across rim. If it catches on the rim, sand that part of the rim with a sander until underside is flush with the substrate.

Fill gap between sink rim and substrate with silicone.



Attached wood strips around rim of sink to provide support. These may be screwed in place or glued and stapled. Do not place wood strips where faucets holes will be drilled.



Once seam adhesive has completely cured, begin trimming process. Use a tilt-base trim router with a 1/4" double-fluted straight cut bit with bottom bearing. Set angle at 1° to 2° more than the bowl wall angle (shown on technical drawings on back cover). Run router around sink, remembering to twist router base in corners. A standard router with roundover bit or bevel bit with bearing set at the correct height may also be used for trimming.



Router bit should cut into sink wall very slightly.

When installing the Tuscany and Sorrento models, an offset trim router is recommended for trimming behind the large bowl.

An offset trim router be helpful when installing the Hampton, Concord and Landin.



Sand edge of laminate and sink wall with a palm sander. Use a 150 to 220 grit sandpaper.

Finish by buffing sink wall with a 3M Scotch-Brite™ pad.



After sanding, edge of laminate may be sharp. Use a file at a 45° angle to soften edge of laminate.



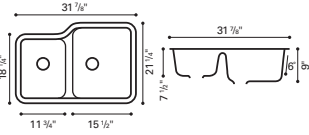
If faucet hole placement is known, drill holes and then seal faucet holes with silicone. Let silicone dry completely before installing faucets. If faucet hole placement is not known, place "Installing Faucets" label on the laminate deck where faucet holes will be drilled.

When using the Concord, Landin and Hampton models, no sealing of faucet holes is necessary.



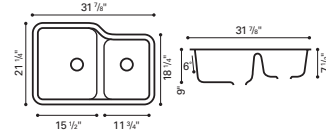
model: **TUSCANY**

overall size: 31-7/8" x 21-1/4" bowl depth: 9"



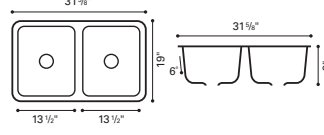
model: **SORRENTO**

overall size: 31-7/8" x 21-1/4" bowl depth: 9"



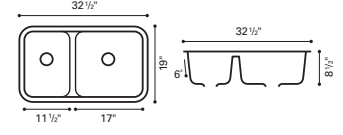
model: **NEWPORT**

overall size: 31-5/8" x 19" bowl depth: 9"



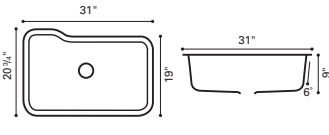
model: **KINGSTON**

overall size: 32-1/2" x 19" bowl depth: 8-1/2"



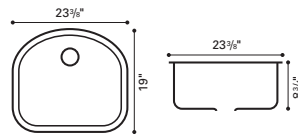
model: **MONACO**

overall size: 31" x 20-3/4" bowl depth: 9"



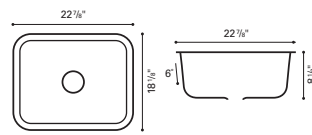
model: **BENTON**

overall size: 23-3/8" x 19" bowl depth: 8-3/4"



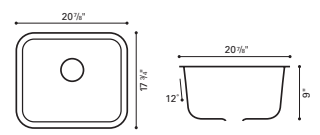
model: **MADRID**

overall size: 22-7/8" x 18-1/8" bowl depth: 8-1/2"



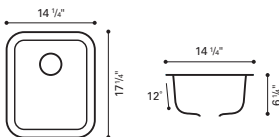
model: **MONTEREY**

overall size: 20-7/8" x 17-3/4" bowl depth: 9"



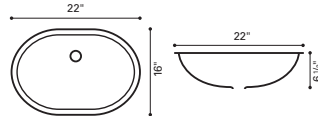
model: **DEL MAR**

overall size: 14-1/4" x 17-1/4" bowl depth: 6-1/4"



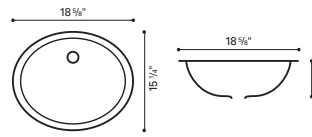
model: **OXFORD**

overall size: 22" x 16" bowl depth: 6-1/2"



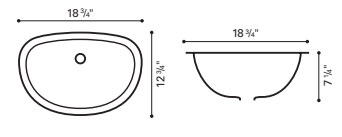
model: **YORK**

overall size: 18-5/8" x 15-1/4" bowl depth: 5-1/2"



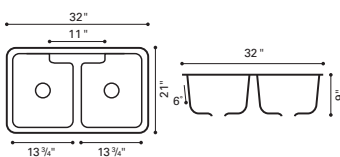
model: **WINDSOR**

overall size: 18-3/4" x 12-3/4" bowl depth: 7-1/4"



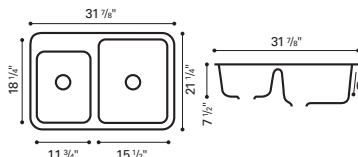
model: **HAMPTON**

overall size: 32" x 21" bowl depth: 9"



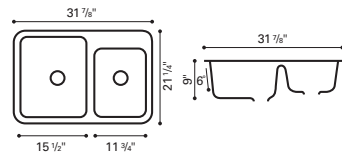
model: **CONCORD**

overall size: 31-7/8" x 21-1/4" bowl depth: 9"



model: **LANDIN**

overall size: 31-7/8" x 21-1/4" bowl depth: 9"



- All sinks can be installed under laminate, solid surface or stone.
- All sinks available in White and Bisque.
- All dimensions shown are external dimensions

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