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Any fabrication procedure or technique not contained within the Wilsonart® Thinscape® Composite Tops Fabrication Manual will not be recognized by Wilsonart, LLC as an approved method of fabrication. Deviations from these techniques must be approved in writing by a Wilsonart Representative.



General Safety:

Safety is a critical concern for any shop and key to a successful business. The following safety rules should be incorporated into your safety program to help prevent an accident. Safety training, knowledge, product use and environment are the responsibility of the facility owner and the shop employees.

CAUTION: Always follow product, equipment and/or tool manufacturer's recommendations and instructions carefully.

- Read directions carefully before fabricating/installing Wilsonart® Thinscape® Composite Tops.
- Read and follow the instruction manual before operating the different tools.
- Keep all guards in place and in working order.
- Ensure all tools are properly grounded. Never remove the third prong.
- Keep work area clean, uncluttered and well lit.
- Don't use electric power tools in a damp or wet work area.
- Keep visitors at a safe distance from the work area.
- Use the right tools. Don't force a tool or attachment to do a job it was not designed to perform.
- Always use safety glasses or approved eye protection and/or face shield, ear/noise protectors and safety shoes. (FIG. 4A & 4B)
- Wear the proper apparel, no loose clothing or jewelry.
- Secure all work with the proper clamp or vise to a stable work surface.
- Don't overreach. Keep proper footing and balance at all times.
- Maintain tools in top condition. Disconnect tools before servicing and when changing accessories such as blades, bits, cutters, etc.
- Keep and use denatured alcohol, adhesives and materials in a safe, ventilated place.
- Dust collection should be used when cutting, routing and sanding. Tools should be used with dust collection at all times.



Figure 4A



Figure 4B



Figure 4C



Figure 4D



Figure 4E

Adhesive Recommendation/Safety:

Wilsonart recommends using 2-part acrylic epoxy with plastic weld or plastic bonder identifiers on the package. Devcon Plastic Welder Plexus MA300 and Loctite Epoxy Plastic Bonder are two recommended 2-part acrylic epoxy. (FIG. 4C, 4D, 4E) ALWAYS refer to the specific Technical Data Sheet AND Material Safety Data Sheet for usage instructions and health/safety concerns, respectively. For information concerning Wilsonart® Adhesives, contact www.wilsonartadhesives.com or the Wilsonart Hotline at 1-800-433-3222.



Handling:

Care should be taken when handling Wilsonart® Thinscape® Composite Tops to protect employees and the decorative surface of the product. Therefore, care should be taken when handling to protect employees and the decorative surface of the product.

Large panels should be transported by pallet/fork-truck or rolling table. Vacuum lifts are also recommended for handling large panels.

Additional tips for working with Wilsonart® Thinscape® Composite Tops include:

- Place padding (slip-sheet or protective cardboard strips) between panels when stacking.
- Carry vertically to limit flex and possible breakage.

Storage:

- Store Wilsonart® Thinscape® Composite Tops in original packing with plastic sheeting on the face and back in tack.
- Wilsonart® Thinscape® Composite Tops should be stored in a controlled, moderate climate.
- Avoid storing in excessive heat/humidity extremes.
- All materials should be acclimated for a minimum of 72 hours before fabrication/installation.
- Material should not be stored near exterior doors that may result in exposure to rain or temperature/humidity variations.

Customers who have finished parts ready to ship and install should take the same precautions when storing these pieces much like the flat slab storage above.

- Bottom of stacked part should have cardboard on top of the pallet just below the first cut piece.
- Each additional piece should have a separation layer of cardboard or slip paper.
- Top piece on the pallet should also be covered with cardboard.

Inspection:

Every effort has been made to supply high quality materials, free of defects. However, as the fabricator, you must conduct a final (pre-cut) inspection for manufacturing defects or damages to continue the quality control process prior to fabrication.

Sheet Selection Process:

Wilsonart® Thinscape® Composite Tops have product information on labels that are adhered to each sheet for proper identification.

Fab Tip: Be sure and remove peel coat from top and bottom of Wilsonart® Thinscape® Composite Tops before installing.





The following suggested tool list is only a minimum requirement for professional and successful Wilsonart® Thinscape® Composite Tops fabrication. Various woodworking and specialized fabrication tools are available in the market today.

Stationary Tools:

- Table or Panel Saw
- Miter (“Chop”) Saw
- Triple Chip Carbide Saw Blades

Hand & Power Tools:

- Routers (FIG. 6A)
 - 3¼ HP with ½” (13mm) collet
 - 3¼ HP Plunge base with ½” (13mm) collet
 - 1½ -2½ HP with ½” (13mm) collet (edge details)
- General Router Bits
 - ½” (13mm) Straight cut
 - ½” (13mm) Bottom bearing flush trim bit
 - 1” (25.4mm) Top bearing flush trim bit
 - Various profile bits
- Sanders (FIG. 6B)-Random Orbital
 - Dust collection system (suggested)
 - Sanding Disks (Micron and Grit Papers)
 - Mirka Abralon pads
- Straight Edges (Phenolic or Aluminum)
- Clamps (FIG. 6C)



Figure 6A



Figure 6B



Figure 6C

For further information, contact Wilsonart Technical and Fabrication Services at 800-433-3222

TOOL MANUFACTURERS

Stationary Tools:

Powermatic 1-800-274-6848
www.powermatic.com

Delta 1-800-223-727
www.deltamachinery.com

Holz-Her 1-704-587-3400
www.holzher.com

Striebig 1-781-585-4364
www.csaw.com

Hand Tools - Routers, Sanders, Bits, etc:

Porter Cable 1-888-848-5175
www.portercable.com

Router Bits:

Amana Tool 1-800-445-0077
www.amanatool.com

Velepec 1-800-365-6636
www.velepectools.com

Southeast Tool 877-465-7012
www.southeasttool.com

Infinity Tools 877-872-2487
www.infinitytools.com

Sanding Equipment:

Fein 1-800-441-9878
www.feinus.com

Festool 1-800-423-3531
www.festoolusa.com

Surcare 1-800-669-5519
www.surcare.com

Dynabrade 1-716-631-0100
www.dyabrade.com

Master Power 1-866-557-8316
www.masterpneumatictools.com

Sandpaper/Finishing Pads:

3M Scotch-Brite & Trizact
1-800-742-9546
www.3m.com

Micro Mesh 1-908-788-5550
www.sisweb.com

Norton 1-800-446-1119
www.nortonabrasives.com

Mirka 1-800-843-3904
www.mirka-usa.com

Sia 1-800-459-3534
www.sia-abrasives.com

Pipe and Bar Clamps:

Bessey 1-800-828-1004
www.americanclamping.com



TOOL MANUFACTURERS

Recommended Saw Blades:

Amana Tool 1-800-445-0077
www.amanatool.com

DML 1-800-242-7003
www.dmlwoodworking.com

FS Tool 1-800-387-9723
www.fstoolcorp.com

Guhdo 1-800-544-8436
www.guhdo.com

Forrest 1-800-733-7111
www.forrestsawblades.com

Leitz 1-800-253-6070
www.leitz.com

Miscellaneous Tools:

Betterley Industries
1-800-871-7516
www.betterleytools.com

DeWalt 1-800-433-9258
www.dewalt.com

Specialty Tools 1-800-669-5519
www.specialtytools.com

Karran® Sinks 410-975-0128
www.karran.com

Chemical Concepts 1-800-220-1966
www.chemical-concepts.com

Dustless sanding system

Fein Power Tools 1-800-441-9878
www.feinus.com

Specialized tools

The Pinske Edge 1-800-874-6753
www.pinske-edge.com

Fabrication tools

Align-Rite Tool Co. 1-888-624-1942
www.alignritetool.com

Straight edge

A.M.P.S. 1-800-669-5519
www.ampsedge.com

Vacuum base seam leveler/clamps

Perfect Seam 1-770-463-8321
www.omnicubed.com

Vacuum base seam clamps

Wood's Power Grip Co. 1-800-548-7341
www.powergrip.com

Dust containment

Zip Wall 1-800-718-2255
www.zipwall.com

Adhesive dispenser repair parts

Conprotec Inc. 1-603-893-2727
www.mixpac.com

Sink Setter Brackets/Easy Leveling Shelf and Counter Bracket

Sink Setter at Precision Works 1-714-847-3396
www.sinkset.com

Wilsonart Recommends:

Keep-Nut™ insert IM2S-P1.4-20/H6
www.chemical-concepts.com

Infinity Tools 877-872-2487
www.infinitytools.com



CUTTING & ROUTING (DRY)

FAB Tips

- Based on the thickness of the final Wilsonart® Thinscape® Composite Top application, consideration of cabinets and appliances must be made during the planning stages.
- When working with Wilsonart® Thinscape® Composite Tops, slower feed-speeds should be expected due to the density of the material (as compared to HPL on particleboard/MDF).
- It is always appropriate to contact your tooling supplier for specific recommendations for feed, speed, and tool geometry.
- While good quality carbide proves effective for small projects, diamond cutting tips may be more durable and cost effective.
- Rate of advance of the cutter (chip load) should be .001" - .002".
- Triple chip designs have shown to provide good cut quality. Hook + 15°.
- Panel saws with a "scoring-saw" option can minimize chipping on the exit side of the panel.
- While surface wear inhibitors can be a factor in tool life, the enemy in any machining process is heat.
- Cutting rates and feed speeds play a major role in both the practical life of tooling, as well as the quality of cuts during machining. As in any machining process, specific machines and tool types will vary and specific parameters will have to be established on site.
- Only use recommended cleaners per the care and maintenance sheet.
- Colored or printed towels can leave a residue which will contaminate the seam material and cause a weak or stained bond line.
- Postforming is not recommended or approved by Wilsonart for the Thinscape® Composite Tops. Please contact Wilsonart Technical Service Group at 800-433-3222 for further information.
- All edges should be sanded smooth and free of sharp corners and kerf marks, which result in stress points.
- Hand Routing—For best results, finished edges of Wilsonart® Thinscape® Composite Tops should be routed/milled. Rough cut panels to approximately 1/16" before finish routing. It is best to use cutters with larger diameter shanks (1/2"). However, smaller tools may be used with minimal feed rates and trim amounts. Two-flute carbide straight cutting bits work well for trimming.
- CNC Routing—The appropriate cutting sequence is largely determined by the type of machining required. For example, large panel sizing may be completely different than cutting out nested parts. In any case, the specific panel's thickness, cutting sequence, and type/condition of the machine will require that you "tune" adjustments for your particular process. A good starting point for machining is:
 - Spindle speed—16,000-18,000.
 - RPM's Feed-rate—200-900 in/min.

CUTTING & ROUTING (WET)

FAB Tips

Wet saw cutting

- When working with Wilsonart® Thinscape® Composite Tops, it is always appropriate to contact your machine and tooling supplier for specific recommendations for feed, speed, and programming,
- Wet cutting equipment can vary between each machine. Proper maintenance of the blade and waterjet is important to producing clean cuts.
- When cutting with a wet saw blade such as an 18" Zenesis, ensure that the blade depth is set to cut through the Thinscape material. If a thin layer remains, chipping on the bottom side can occur.
- A feed rate of 120 inches per min can be set, and the percentage can be adjusted depending on your needs and machine. This speed adjustment is especially critical when cutting smaller slabs. Since this material is lighter in weight compared to quartz and granite, Thinscape slabs may need to be secured or blocked to ensure the slab does not move during the cutting process.
- A standard target of 9 amps is desired, with a fixed down feed of 10 inches per minute.
- The cut from your wet saw should not contain any burn marks or rough edges. The finishing steps should include light dry sanding of the top and bottom edges with an orbital sander (120 grit on the top and bottom edge, and finish with a 500 Mirka Abralon pad)

Wet jet cutting

- There are two options on cutting with a water jet. One is initiating the jet from the previous wet saw kurf. The second is plunging through the center of the slab for a circular or oval cutout.
- When cutting from the previous saw kurf, the pressure can be set at 65,000 psi traveling at 12 to 14 inches per minute. This will produce a very clean cut with minimal chipping on the bottom edge. This will allow the fabricator to connect cut areas with a combination of the two cutting processes. It is important that the jet starts in the center of the kurf and not on the edge of the Thinscape.
- When punching through a Thinscape slab, it is necessary to understand that this is a layered material. Therefore, if you initiate the punch too close to an edge, the water stream can exit on the edge or chip out a larger area. Therefore, it is recommended to start the punch through a minimum of 4" from a finished edge.
- Initial plunge should be between 25,000 to 35,000 psi. This can vary between machines and your base underlayment. After the initial plunge cut, the pressure can be increased to 65,000 psi.
- Finishing the edge is accomplished by sanding with a dry orbital sander (80, 120, 180, 220 Grit, finishing with a Mirka Abralon pad).



Deck Seams—Conventional

- Machine both edges to be seamed. Slightly oversize both Wilsonart® Thinscape® Composite Tops parts by a maximum of 1/8". Both sides must be routed for a proper dry fit and quality seam. (FIG. 10A)
- Seams should fit tightly when dry fitted.
- Alignment biscuits/wafers or slot bits are required for alignment and leveling.
- For alignment, use biscuit slot cutter or slot bit to machine slots for #20 biscuits. (FIG 10B)
- Minimum of 4 biscuits are required for butt seam or 45° seam. Biscuits on ends must be 3" from inside and outside corners. Other biscuits should be distributed evenly for maximum alignment and leveling. (10B. & 11B.)
- Dry fit seams to insure a tight fit. Place clear packing tape (or other release material) under seam area that may come in contact with seam supports to prevent contamination.
- Thoroughly clean areas to be seamed with denatured alcohol using clean white shop rag.
- Position sheets to be seamed 3/16" (4.8mm) to 1/4" (6.4mm) apart.
- Prepare clamping materials.
- Prepare 2-part acrylic epoxy seam kits. Wilsonart recommends using a 15 to 20 minute epoxy to allow time for proper leveling and clamping.
- Prepare tube and tip to ensure proper mixture of adhesive.
- Fill the seam to 1/2 full and biscuit slots, apply biscuits.
- Damming the ends will make this easier.
- Slide the sheets together - make sure there is adhesive squeeze out along entire seam. Clamp the seam together using bar clamps, suction cups, wood blocks or spring clamps. (FIG. 10C)
- DO NOT OVERTIGHTEN clamps.
- Over tightening will cause starved, weak seams.
- Clean seam area with denatured alcohol and clean white shop rag.
- Do not scrape, chisel or remove adhesive prior to being fully cured.



Figure 10A



Figure 10B



Figure 10C

Deck Seams—45° Seam

This method is recommended to be used for movement or directional designs. Conventional 45° seams are the preferred method for seaming, allowing the pattern movement to continue throughout the application and flow in similar direction through the angle or corner. (FIG. 11A)

- Machine both edges to be seamed.
- Alignment biscuits/wafers or slot bits are required for alignment, leveling and to eliminate movement of 45° seaming process. (FIG. 11B) Use of 2-part acrylic epoxy adhesive is recommended.
- Minimum of 4 biscuits are recommended for butt seam or 45° seam. Biscuits on ends must be 3" from inside and back corners. Other biscuits should be distributed evenly for maximum alignment and leveling. (FIG. 11B)
- Seams should fit tightly when dry fitted.
- Place a release material (such as packing tape) under the seam to prevent contamination of deck seam.
- Thoroughly clean areas to be seamed with denatured alcohol using clean white shop rag.
- Position sheets to be seamed $\frac{3}{16}$ " (4.8mm) to $\frac{1}{4}$ " (6.4mm) apart. Prepare clamping materials. (FIG. 11C)
- Prepare 2-part acrylic epoxy seam kits. Wilsonart recommends using a 15 to 20 minute epoxy to allow time for proper leveling and clamping.
- Prepare tube and tip to ensure proper mixture of adhesive.
- Slide the sheets together, making sure there is adhesive squeeze out along the entire length of the seam.
- Clamp the seam together using selected clamping process; wood blocks or suction cups with spring clamps (FIG. 11C), bar clamps and/or other seaming system.

Note: Based on kitchen dimensions, seam location and movement design may vary and should be taken into consideration.



Figure 11A

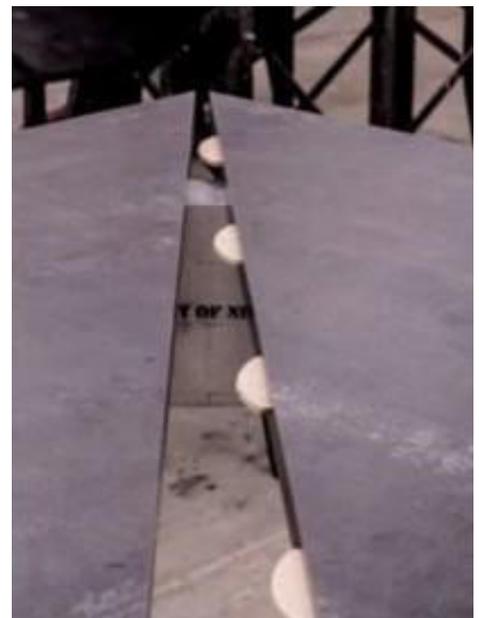


Figure 11B



Figure 11C

Wilsonart® Thinscape® Composite Tops and Sink Installation Drop-In/ Self-Rimming

Stainless steel and other material type drop-in (FIG. 12A) sinks/bowls can be installed by following these instructions:

- Inspect sink for imperfections and verify color.
- Identify the location. The distance between the drop-in sink cutout and a seam location must be a minimum of 3" (75mm), while the distance from the front edge of the countertop must be a minimum of 1.5" (40mm).
- Position sink using center-line dimensions. Place the sink upside down on the face of the countertop and mark around the perimeter of the sink flange. (FIG. 12B)
- Using a template, draw a second line at least 3/8" (10mm) to a 1/2" (13mm) inside the first line of the sink perimeter, or to the manufacturer's guidelines. This should allow the drop-in to fit properly inside the cutout once the cutout section is removed.
- Ensure all countertops are adequately supported during all cutting processes.
- Using a 1/2" (13mm) bit, drill each of the 4 corners of the inner line to create a clean radius corner. Minimum 1/4" (6mm) radius required at all inside corner cutout locations. This will prevent any potential stress cracking in the corners.

Following the inner line, plunge with a hand router using a 1/2" router bit (13mm) (FIG. 12C) or use a circular saw with a guide rail and TCT triple chip blade. Recommend cutting in stages of 1/8" (4mm) depth increments. Always use a router bit cut to finish final cut into the radius corners.



Figure 12A



Figure 12B



Figure 12C

Wilsonart® Thinscape® Composite Tops and Sink Installation Drop-In/ Self- Rimming Continued

- Dry fit vanity or sink to ensure proper fit.
- Clean Wilsonart® Thinscape® Composite Tops and vanity/sink flange with denatured alcohol.
- Apply ample amount of 100% silicone to the Wilsonart® Thinscape® Composite Tops in areas to receive flange of vanity/sink.
- Check for silicone squeeze-out around entire sink area.



Figure 13A

Wilsonart® Thinscape® Composite Tops and Sink Installation Undermount

Stainless steel and other material type undermount vanities (FIG. 13A) and sinks can be installed by following the instructions below. It is always recommended to review and follow vanity/sink manufacturer instructions.

- Develop a sink template from particleboard or Wilsonart® Thinscape® Composite Tops by taking dimensions from vanity/sink and transferring to template material along with center lines.
- For best results, all cutouts must be conducted using a router for template and Wilsonart® Thinscape® Composite Tops cutouts. (FIG. 13B)
- Fasten template with clamps to the face side of the countertop. The use of an inner template is recommended to support router and can be fastened to face with hot melt.
- Using router with top bearing bit or template guide and ½" (13mm) router bit, follow the template with router. Recommend cutting in stages of 1/8" (4mm) depth increments. Always use router bit to complete cutout.
- Dry fit sink to ensure proper fit and that dimensions are accurate.
- Wilsonart® Thinscape® Composite Tops edges can be finished using a multi-step sanding process. (FIG. 13C) See finishing section on page 18 for steps in finishing the sink cutout edge prior to fastening vanity/sink to Wilsonart® Thinscape® Composite Tops countertop.



Figure 13B



Figure 13C

Sink Installation Undermount Continued

- During the dry fitting process mark locations of sink clips. Use 4-6 sink clips for vanities and 6-8 clips for kitchen sinks. (FIG. 14A)
- With sanding materials, scuff the Wilsonart® Thinscape® Composite Top at the bonding location of flange or clip system stems. (FIG. 14B)
- Sink clips can be fastened by using Rotoloc® threaded stems and clips, or by using inserts with threaded stems and clips.
 - Wilsonart recommends Keep-Nut™ insert.
- Clean vanity/sink flange and area with denatured alcohol to receive Rotoloc® stems and Devcon/Plexus MA300 or equivalent plastic welder/bonder adhesive to adhere to the backside of Wilsonart® Thinscape® Composite Top. (FIG. 14C)
 - SinkSetter, an undermount sink installation kit is also recommended to install sinks in Wilsonart® Thinscape® Composite Tops. www.sinksetter.com
- For insert installation, please follow recommended manufacturer installation guidelines providing best support scenario.
- Avoid securing sink clips to plumbing fixture areas.
- Avoid screwing through the material unless adding wooden strips or plate to secure to.
- Apply ¼" bead of 100% silicone to the center of the vanity/sink flange. Fit vanity/sink, apply pressure and fasten sink clips using wing nuts. Fasten wings equally and apply pressure evenly. Prior to tightening, secure vanity/sink to ensure proper installation and then tighten. Ensure 100% squeeze out around the perimeter of the vanity/sink.
- Adhering vanity/sink may take place during the installation process in the actual application location.



Figure 14A



Figure 14B



Figure 14C

General Cutout Requirements

These procedures are for cutouts that do not involve heat generating/producing appliances or items. See Cooktop Cutout requirements on page 16 for cutouts involving heat generating items installed in or over a cutout.

- Cutouts must be completed and performed with a router only. (FIG. 15A)
- Inside corners of all cutouts must be radiused.
 - Use 1/2" (9.5mm) or larger diameter bits.
 - A 1/4" (6.4mm) minimum radius required or larger preferred at all cutout inside corners.
 - See page 16 for Cooktop Cutouts requirements.
- Round over top and bottom edges of cutouts to a minimum of 1/16" (1.5mm) radius.
- Remove any roughness, nicks and/or router "chatter" with 150-grit (80 micron) or finer sandpaper. (FIG. 15B)
- Allow at least 1/8" (3mm) clearance space on all sides for drop-in sinks and appliances.
- Allow at least 1/16" (1.5mm) clearance space on all sides for outlets.
- Web supports are required within 3" (76mm), but no closer than 1" (25mm) from the edge of the cutout.



Figure 15A



Figure 15B

COOKTOP CUTOUTS

Cooktop Cutouts

- Cutouts must be performed with a router only.
- A minimum 1/4" (6.4mm) gap is required between the edge of Wilsonart® Thinscape® Composite Tops cutout and cooktop. (FIG. 16A)
- Inside corners of all cutouts must have a minimum radius of 1/4" (6.4mm). (FIG. 16B)
- Round over top and bottom edges of cutout a minimum of 1/16" radius.
- Sand sides of cooktop cutout to be free of roughness, nicks and router "chatter" with minimum 150-grit or finer sandpaper.
- Wrap entire cooktop opening with Wilsonart® 9 mil aluminum heat reflective tape.
- Place an additional layer of tape at all corners. Inform cooktop installer that tape must not be removed. Nomex® will assist with heat resistance.
- Do not fold tape under the bottom of the cutout.
- Tape must extend past the edge of cooktop flange. Trim excess. (FIG. 16A)
- Never fasten cooktop to Wilsonart® Thinscape® Composite Tops with mechanical fasteners.
- Use a wood block between the Wilsonart® Thinscape® Composite Top and the cooktop fasteners.
- If minimum cutout dimension listed above cannot be met, follow requirements for cooktop mantle or stainless steel ring.



Figure 16A



Figure 16B

CONVENTIONAL BACKSPLASH

Backsplash

- Use 100% silicone to adhere backsplash to countertop and wall.
- Apply continuous bead to the bottom of backsplash to be adhered to countertop. Apply dots of silicone to backsplash, hot melt adhesive can be used to adhere backsplash to the wall while silicone cures. (FIG. 17A)
- Remove excess silicone squeeze-out, leaving only a small inside corner bead. (FIG. 17B)
- On full height backsplash, apply all Wilsonart® Thinscape® Composite Tops fabrication guidelines.
 - 1/4" (6.4mm) radiused inside corners .
 - Space for expansion.
 - Cutouts must be made with a router.
 - Attach backsplash with silicone.
 - Do not hard seam to countertop.



Figure 17A



Figure 17B

EDGE PROFILING & FINISHING

Edge Profiling

- Wipe sanding dust from countertop edge between sanding steps.
- Exposed edges can be shaped to enhance the appearance and ergonomics of the installation. This is especially true for Wilsonart® Thinscape® Composite Tops used as a work-surface or countertop. Typical shapes in wood-working and Solid Surface applications are also obtainable with Wilsonart® Thinscape® Composite Tops:
 - Thumbnail, Flat, Reverse-Knife
- Radius should be limited at the transition to the face in order to minimize the “feathering” of the decorative surface.
- For any other questions concerning edge profiling, please contact the Wilsonart Smartline at 800-433-3222.



Figure 18A

Finishing

- Machining edges will normally result in slight-to-moderate cutter/kerf marks.
- These edges can be finished by using a random orbital sander to smooth the edges until they possess an attractive appearance. (FIG. 18A)
- Edge finishing is a multi-step sanding process that utilizes large-to-small grit. Similar to Solid Surface finishing, the final finish using the following sanding steps are the recommend finishes:

Finish Type	USA Grit	3M™ Micron
Matte Finish	120, 180, 220 Grit Finishing with Mirka Abralon 360 or Scotch-Brite	100, 80, 60 micron Finishing with Mirka Abralon 360 or Scotch-Brite
Satin Finish	120, 180, 320 Grit Finishing with Mirka Abralon 1000 or Scotch-Brite	100, 80, 60 micron Finishing with Mirka Abralon 1000 or Scotch-Brite
Semi-Gloss Finish	120, 180, 320 Grit Finishing with Mirka Abralon 1000 and 2000 or Scotch-Brite	100, 80, 60 micron Finishing with Mirka Abralon 1000 and 2000 or Scotch-Brite

EDGE PROFILING & FINISHING

Suggested Products

3M®Trizact™ Abrasives

1-800-742-9546

- 1-800-364-3577 in the U.S.A.
- 651-737-6501 outside the U.S.A.

Mirka Abralon Pads

1-800-843-3904

- Recommended for dark colors.

Standards

U.S. standard system: 16 grit (coarsest) to 2,000 grit (finest)

- Trizact™: 60mx (coarsest) to 20,000mx (finest)
- Micron system: 100 micron (coarsest) to .3 micron (finest)
- Abralon: Medium (coarsest) to mirror fine (finest)



Jobsite Preparation

- Based on the thickness of the final Wilsonart® Thinscape® Composite Top application, consideration of cabinets and appliances must be made during the planning stages.
- Do not install Wilsonart® Thinscape® Composite Tops over a solid substrate. Air movement must be allowed to reach the top and bottom of the slab. Warpage may occur due to changes in temperature and humidity. Where a full substrate is required holes can be cut in the substrate to allow air movement.

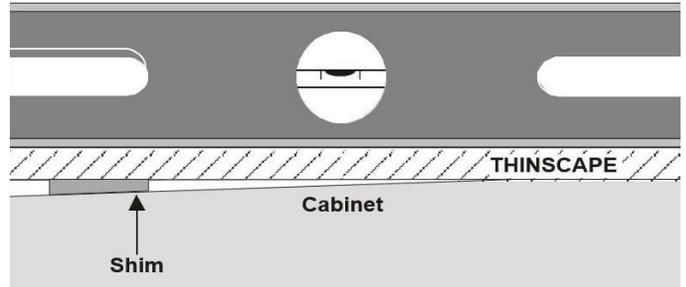


Figure 20A

- Supports are required every 24".
- Ensure cabinets are leveled. Shims may be used for assistance. (FIG. 20A)
- Certain unsupported areas are in need of stronger frame material. These include inside corner cabinets, especially for a Lazy Susan, dishwasher openings, sink base fronts, desks and anywhere else that the cabinet is weaker. (FIG. 20B)

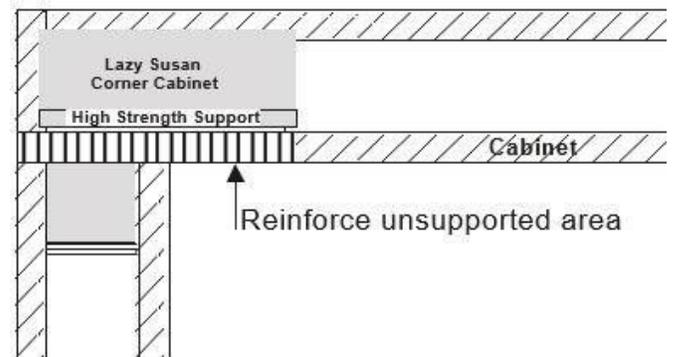


Figure 20B

- Place cabinet supports at both sides of all cutouts. Place supports no closer than 1" (25.4mm) and no further than 3" (76.2mm) from sides of cutout.
- Multiple bowl installations require special reinforcement to provide adequate support.
- Place cabinet support along both sides of the bowl installation.
- Place sink setters, solid wood, MDF or plywood supports between each bowl.
- Supports must be attached to cabinet base to alleviate flexing.
- Free standing stoves must be set at a minimum of 1/16" higher than the surface of the countertop.
- Insert method is recommended to be used for dishwasher clips only.

Overhangs

Additional support is required when the countertop overhangs the cabinet. Refer to the following chart to determine support required:

Overhang	Support Required
0" to 6" (0-152.4mm)	None
6" to 18" (152.4mm-304.8mm) Figure 21A	Brackets or Corbels
18" to 24" (457.2mm-609.6mm)	Brackets (corbels) and Supporting legs

When brackets (corbels) are used, place them no more than 24" (609.6mm) apart. In addition, place brackets 12" (304.8mm) from open ends and against wall ends. (FIG. 21A & 21B)

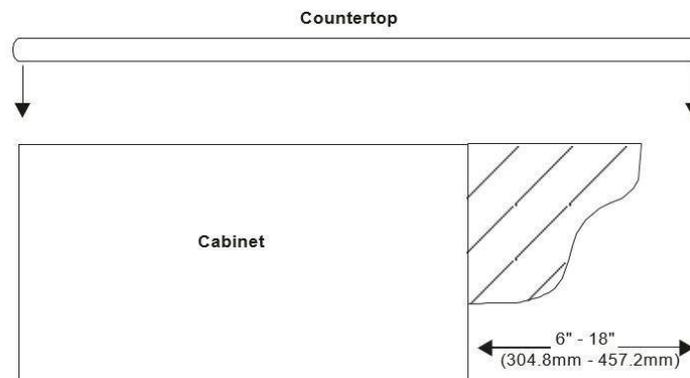


Figure 21A

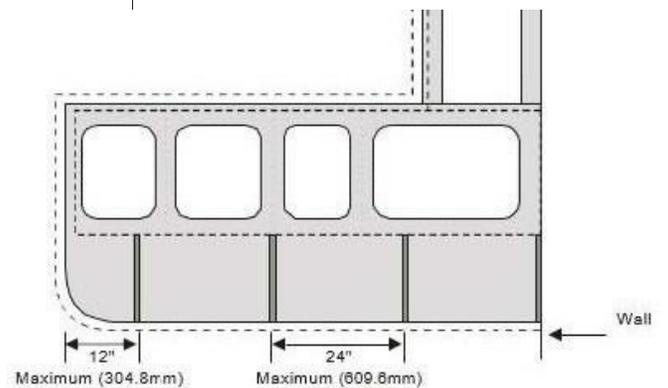


Figure 21B

COUNTERTOP AND ISLAND INSTALLATION

Fab Tip: Be sure and remove peel coat from top and bottom of Wilsonart® Thinscape® Composite Tops before installing.

Tools

- Keep Nut Inserts Keep-Nut™ insert (IM2S-P1.4-20/H6). <https://www.chemical-concepts.com/>
- Thread cutting screws Type F point thread cutting screw with a machine screw thread with a blunt tapered point, having multi-cutting edges and chip cavities. (These are not self-tapping screws)
- Cordless Drill
- Drill Bit
- Hammer
- Silicone

Silicone Installation

- Ensure cabinets are secure and level prior to installation.
- Use only 100% pure silicone to secure countertop to cabinet frame – no construction mastic.
- Use lineal beads of silicone at a minimum width of 1/8”.
- Apply bead along the front of cabinet and add dime-sized dabs every 12” (304.8mm) to 18” (457.2mm) along the back of cabinet’s supports.
- Do not place silicone in the inside corners.

When working in non-occupied environments or environments that will not stay acclimated, it will be necessary to use both silicone and a mechanical fastener like keep nuts and or type F self-threading screws with a “L” bracket.

These mechanical fasteners should be located in the 4 corners of any Thinscape countertop and island installation. This will be in addition to the above corbel recommendation.

Keep-Nut Installation

- Wilsonart® Thinscape® Composite Tops should be fastened to countertops using Keep-Nut inserts, threaded stems, wingnuts and L-Brackets along with silicone.
- Attach L-bracket to corners of cabinet bases using wood screws.
- Pre-mark holes to be drilled by placing the slab on the cabinet base in correct location and mark with a pencil through L-bracket.
- Flip top over and pre-drill holes using Keep-Nut drill bit (11.8mm) and stop collar.
- Using Keep-Nut setting tool and a hammer, insert Keep-Nut inserts into pre-drilled holes by tapping into place and insert threaded stems.
- Apply silicone to cabinet base as described in previous section.
- Flip the slab back over, and align the slab to the cabinet base using the treaded stems and L-brackets
- Tighten with wing nuts.

Thread Cutting Screw Installation

- Wilsonart® Thinscape® Composite Tops should be fastened to countertop using a proper sized Type F thread cutting screw, L-bracket or Figure 8 fastener, and silicone.
- Attach brackets or fasteners to corners of cabinet bases using wood screws.
- Pre-mark holes to be drilled by placing the slab on the cabinet base in correct location and mark with a pencil through bracket or fastener.
- Flip top over and pre-drill holes using appropriate drill bit and stop collar.
- Apply silicone to cabinet base as described in previous section.
- Flip the slab back over, and align the holes in the slab with the bracket or fasteners and screw the Type F thread cutting screws into the slab, being careful not to over tighten.



Fab Tip: Be sure and clean out holes to allow room for Type F screw

Wilsonart® Thinscape® Composite Tops Backsplash

- With all Wilsonart® Thinscape® Composite Tops, 100% silicone adhesive should be used to adhere the product backsplash to the wall.
- Apply ¼" (7mm) diameter vertical beads of silicone approximately 5/8" (15mm) in from each edge
- Then, apply vertical beads every 4" (100mm).
- Do not trowel or spread beads prior to installation, the bead format recommended will allow space for proper airflow.
- Be sure to start and stop the bead approximately ½" from the bottom and top of the panel.
- The area directly behind the cooktop should also have additional ¼" (7mm) vertical beads spaced 1" (25.4mm) apart and at least 12" (300mm) high (FIG. 22).

Fab Tip: Do not apply a horizontal bead of silicone on the top of the Wilsonart® Thinscape® Composite Top. This will prevent air flow to the backside of the panel.

- Silicone bead is recommended between countertop and backsplash bottom edge interface and ensure squeeze-out for proper seal of area after clean-up.
- J-Roll the entire Backsplash area to ensure a proper bond.
- Cutouts require a minimum 1/8" radius on all inside corners.

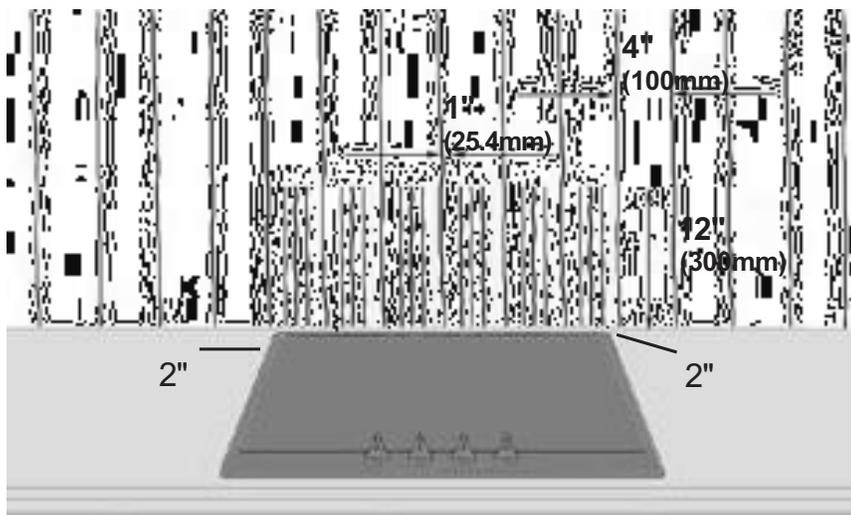


Figure 22

It is important to make sure that the wall behind the backsplash is flat to within an 1/8" over 6 feet to insure the material doesn't pull away from the wall after installing a full backsplash up to cabinet height.

FABRICATION OF TABLETOPS USING WILSONART® Thinscape® Composite Tops

Tools

- Keep Nut Inserts Keep-Nut™ insert (IM2S-P1.4-20/H6). <https://www.chemical-concepts.com/>
- Thread cutting screws Type F point thread cutting screw with machine screw thread with blunt tapered point, having multi-cutting edges and chip cavities.
- Cordless drill
- Drill bit
- Hammer

Tabletop General

- Support for the Wilsonart® Thinscape® Composite Tops composite material is critical when choosing table bases.
- Choose a base that is going to provide the necessary support and balance for the appropriate size tabletop.
- 36" or 42" Tabletops are recommended. Larger tops will require additional support.
- Single corner legs are not recommended unless additional support or framing is applied.

Installation

Keep Nut Installation

- Wilsonart® Thinscape® Composite Tops can be fastened to table base using Keep Nut inserts threaded stems and wingnuts.
- Pre-mark holes by placing table base on backside of the slab and marking with a pencil.
- Pre-drill holes using Keep Nut drill bit (11.8mm) and stop collar.
- Using setting tool and hammer, insert Keep Nut inserts into pre-drilled holes by tapping into place.
- Insert threaded stems. Align table base onto stems and use wing nuts to tighten.

Thread Cutting Screw Installation

- Wilsonart® Thinscape® Composite Tops can be fastened to table base using a proper sized thread cutting screw.
- Pre-mark holes by placing table base on backside of the slab and marking with a pencil.
- Pre-drill holes using appropriate drill bit and stop collar.
- Align table base with pre-drilled holes and insert thread cutting screws and tighten.

Fab Tip – Be sure and clean out holes to allow room for screw.



Customer Satisfaction

Customer satisfaction is achieved by using a commonsense approach. Treat your customer fairly. Word of mouth is the best and least expensive form of advertising. Quality assurance in fabrication and installation is of the utmost importance, as the fabricator's reputation depends upon this.

The following is mandatory:

- Care and Maintenance information should be provided to end user. Information can be found at the Wilsonart website, www.wilsonart.com/care-and-maintenance. (FIG. 23A)

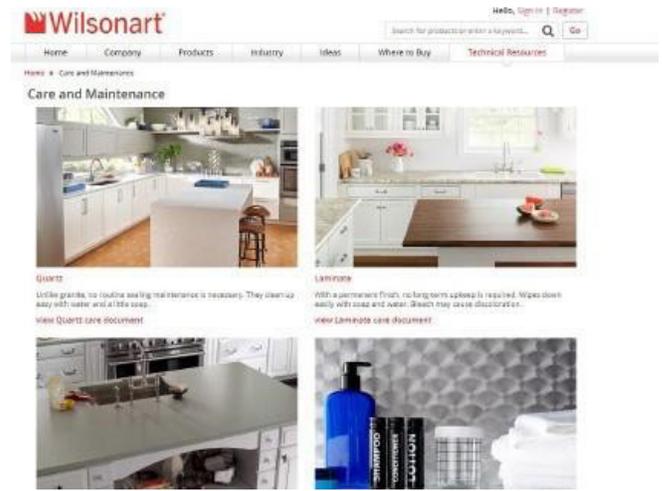


Figure 23A

For additional information about Sustainability & Certifications please visit: [Wilsonart Corporate Sustainability](#)
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