

SECTION 12 3661.23
Thinscape® Composite Tops

This Section specifies “Wilsonart® Thinscape® Composite Tops” panels produced by Wilsonart LLC. Thinscape is a durable nonporous surfacing material available in a variety of European- inspired on-trend designs for beautiful large-scale looks with unique finishes. This product is designed for interior horizontal applications only and ideally suited for single family, multifamily, commercial, hospitality, and retail projects. Common uses are kitchen countertops, bath vanities, laundry room worktops, and table tops. Wilsonart is the largest and most-recognized manufacturer of laminates in the United States with nationwide distribution and a substantial presence in the global marketplace.

Wilsonart Thinscape is highly resistant to stains, impervious to moisture, and does not require sealing. This product exhibits excellent performance for impact, abrasion, and scratch resistance. Thinscape has attained GREENGUARD Gold Certification from UL Environment for low chemical emissions into indoor air during product usage.

A unique design enhancement is the array of edge profile choices, including thumbnail, reverse knife, and chamfered (“eased”) edges, as design solutions.

Visit Wilsonart at www.wilsonart.com for further information. Also, Wilsonart’s Fabrication University has produced an informative installation video available for viewing on YouTube at the following hyperlink: <https://www.youtube.com/watch?v=unMS-cuXSno&t=18s>. Alternatively, type “Thinscape” in the search box.

Section Editing: Informational notes will appear as “Editing Note” text boxes throughout this Section. Bracketed bold text will require a selection to be made.

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Thinscape Composite Tops panels.
- B. Adhesives and sealants.

1.02 RELATED REQUIREMENTS

EDITING NOTE: Section listings below are common references for related work and based on the broadly accepted CSI MasterFormat® for Section numbers and titles. Revise to suit requirements for the particular project.

- A. Section 01 3300 - Submittal Procedures.
- B. Section 01 7800 - Closeout Submittals.
- C. Section 06 1000 - Rough Carpentry.
- D. Section 06 6116 - Solid Surfacing Fabrications.
- E. Section 07 9200 - Joint Sealants.

- F. Section 12 3623 - Plastic-Laminate-Clad Countertops.
- G. Section 12 3661 - Solid Surfacing Countertops.
- H. Section 12 3661.19 - Quartz Surfacing Countertops.
- I. Section 22 4116 - Residential Lavatories and Sinks.

1.03 REFERENCES

EDITING NOTE: Revise Reference Standards to suit project requirements.

- A. Reference Standards:
 - 1. ASTM C 792: Standard Test Method for Effects of Heat Aging on Weight Loss, Cracking, and Chalking of Elastomeric Sealants.
 - 2. ASTM D 638: Standard Test Method for Tensile Properties of Plastic.
 - 3. ASTM D 790: Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - 4. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 5. ISO: International Organization for Standardization.
 - 6. ISO 4586: High-Pressure Decorative Laminates (HPL, HPDL).
 - 7. UL 2818: GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01 3000 - Submittals.
- B. Product Data:
 - 1. Submit product data for each specified product. Include manufacturer's technical data sheets and published instruction instructions.
 - 2. Submit Safety Data Sheets (SDS) for adhesives and sealants.
- C. Shop Drawings:
 - 1. Submit fully dimensioned shop drawings showing layouts, joinery, edge conditions, terminations, substrate construction, cutouts and holes. Show plumbing installation provisions. Include elevations, section details, and large scale details.
- D. Samples:
 - 1. Submit selection and verification samples for each color, pattern, and finish required.
- E. Quality Assurance Submittals:
 - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties, if required.
 - 2. Warranty: Specimen copy of specified warranty.

- F. Closeout Submittals:
 - 1. Maintenance Data: Submit manufacturer's published maintenance manual with closeout submittals.

1.05 REGULATORY REQUIREMENTS

- A. Accessibility Requirements: Comply with the U.S. Architectural & Transportation Barriers Compliance Board ADA-ABA Accessibility Guidelines for Buildings and Facilities.

1.06 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer Qualifications: Minimum of five years documented installation experience for projects similar in scope and complexity to this Project, and currently certified by the manufacturer as an acceptable installer.
- B. Mock-Ups:

EDITING NOTE: Revise mock-up size and location to suit Project requirements.

- 1. Install at Project using acceptable products and manufacturer approved installation methods. Obtain Architect's acceptance of color, pattern, finish, fabrication, and installation standards.
- 2. Mock-Up Size: [] by [].
- 3. Mock-Up Size: Indicated on Drawings.
- 4. Mock-Up Location: **[Indicated on Drawings] [As directed by Architect]**.
- 5. Maintain mock-up during construction for fabrication and installation comparison. If required, remove and legally dispose of mock-up when no longer required.
- 6. Incorporation: If permitted by Architect, mock-up may be incorporated into as part of the completed Work.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Handling: Comply with manufacturer's recommendations for shipping and handling Thinscape Composite Tops panels to preclude breakage or damage. Lift panels individually to avoid scratching. Do not permit surfacing panel decorative surfaces from sliding against one another. For handling, a suitable gripping device, such as a suction pad, is acceptable.
- B. Storage and Protection: Store Thinscape Composite Tops panels and related materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer. Keep panels wrapped inside the original packaging (plastic lining) until time of installation. Store surfacing panels on flat rigid pallets at least the same sizes as the panels to avoid sliding and unstable positioning; 24 inch maximum spacing between supporting boards. Place adequately sized protective paper between the pallet and panels and on the top panel.

1.08 PROJECT CONDITIONS

- A. Field Measurements: Verify actual measurements and openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.09 WARRANTY

- A. Manufacturer's Limited Warranty: Provide manufacturer's standard one-year Limited Warranty against manufacturing defects in Thinscape Composite Tops sheet materials.

PART 2 - PRODUCTS

WILSONART CONTACT INFORMATION: Wilsonart LLC, 2501 Wilsonart Drive, Temple, TX 76503-6110. Tel. 254.207.7000, Toll-Free 800.433.3222, Fax 254.207.2384.
Website: www.wilsonart.com

2.01 MANUFACTURER

- A. Basis of Design: Wilsonart LLC.

EDITING NOTE: Refer to the **Products** tab on the Wilsonart website for complete information on Thinscape Composite Tops.

2.02 Thinscape Composite Tops

- A. Acceptable Product: "Wilsonart Thinscape Composite Tops."
B. Composition: A composite material, fabricated from papers and resins.
C. Material Thickness: 1/2 inch, nominal. Product Type and Nominal Thickness: **[White Core Type 560; 0.5 inch] [Black Core Type 568; 0.5inch] [Grey/Almond Core Type 597; 0.5 inch]**

EDITING NOTE: Thinscape sheets are available the following sizes: 30 inches by 10 feet, 30 inches by 12 feet, 5 feet by 10 feet, and 5 feet by 12 feet.

- D. Panel Dimensions: **[[] inches wide by [] inches deep] [Indicated on Drawings] [Specified in SCHEDULE Article of this Section].**
- E. Conformance Standards:
1. UL 2818: GREENGUARD Gold - Emission levels are applicable for building materials, finishes, and furnishings.
- F. Physical Characteristics:
1. Modulus of Elasticity: Minimum 12,000 Mpa; ASTM D 790.
 2. Flexural Strength: Minimum 180 Mpa (MD) and 130 (CD); ASTM D 790.
 3. Tensile Strength: Minimum 140 Mpa (MD) and 100 (CD); ASTM D 638.
 4. Density: Minimum 1.40 g/cm²; ASTM C 792.
 5. Surface Burning Characteristics: Class 2/B; ASTM E 84.
 6. Lightfastness: Minimum 4; ISO 4586.

7. Impact Resistance, Large Diameter Ball: 0.500 inch; ISO 4586.
8. Stain Resistance: Minimum rating of 5 for stains 1-10 and minimum rating of 3 for stains 11-15; ISO 4586.
9. Wet Heat Resistance: Minimum rating of 5; ISO 4586.
10. Dry Heat Resistance: Minimum rating of 4; ISO 4586.

EDITING NOTE: Select color, pattern, and finish designs from one of the following options. Wilsonart offers design choices in a variety of surface material looks, such as large-scale stone, quartz, planked wood, and aged metal. Sheen ranges from ultramatte to semigloss dependent on product section.

- G. Color, Pattern, and Finish: **[Design Number] [Design Name]**.

EDITING NOTE: If color, pattern, and finish are not specified in the paragraph above, delete and select one of the following paragraph options.

- H. Color, Pattern, and Finish: Specified in SCHEDULE Article of this Section.
- I. Color, Pattern, and Finish: Indicated on Drawings.

EDITING NOTE: Select edge detail from one of the following options.

- J. Edge Detail: **[Thumbnail] [Reverse Knife] [Chamfer] [Square]**.
- K. Edge Detail: Specified in SCHEDULE Article of this Section.
- L. Edge Detail: Indicated on Drawings.
- M. Edge Detail: Selected from manufacturer's standard offerings.

2.03 ACCESSORY MATERIALS

- A. Joint Adhesive: Two-part acrylic epoxy adhesive for bonding Thinscape Composite Tops seams.
1. Acceptable Products: Plastic Welder or Plastic Bonder.
- B. Elastomeric Sealant: 100 percent silicone sealant for securing panels to installation substrates and filling gaps between panels and terminating substrates; in wet environment applications use mildew-resistant product. Complies with ASTM C 920, Type S (single component), Grade NS (nonsag).
- C. Panel Overhang Supports: As recommended by panel manufacturer for particular installation condition.

2.04 FABRICATION

- A. General: Fabricate components in shop, to greatest extent practicable, in sizes, shapes, and edge profiles indicated according to approved shop drawings and Wilsonart Thinscape Fabrication Manual.
- B. Form joint seams between surfacing components with specified seam adhesive. Completed joints without voids. Provide joint reinforcement (biscuit slots and biscuits) for mitered corner conditions.

- C. Provide holes and cutouts for plumbing fixtures and accessories indicated on approved shop drawings. Rout cutouts and finish edges smooth.
- D. Use only saws, routers, and sanders as recommended by panel manufacturer. For sanding/finishing, use a random orbital sander and proper grit; only sand at radius profiles, not decorative faces.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine the underlying support and conditions that could adversely affect the work of this Section.
- B. The underlying supports must be sound, level, smooth, and free from dust or other surface contaminants.
- C. Commencement of work will constitute acceptance of underlying support and conditions to receive the work.

3.02 INSTALLATION

- A. General: Install Thinscape Composite Tops assemblies plumb, level, and true according to approved shop drawings and panel manufacturer's published installation instructions. Use only saws, routers, and sanders as recommended by manufacturer. For sanding/finishing, use a random orbital sander and proper grit; only sand at radius profiles, not decorative faces.
 - 1. Fasten Thinscape Composite Tops panels to base cabinets or other supporting substrates with the specified sealant, additional mechanical fasteners are recommended for unoccupied and unacclimated installations.
 - 2. Cutouts: For top mount or underside mount sinks, make final cuts with router. For appliance cutouts, use router only; install Wilsonart Heat Tape as recommended by manufacturer.
 - 3. Panel Edge Detail: Form required edge profile(s) and sand smooth.
- B. Joint Seams: Clean seam surfaces with denatured alcohol. Install biscuit slots and biscuits for mitered corners if required. Provide 1/32 inch seam gap, install protective clearing masking tape or film on panel surfaces adjoining seams, and apply specified seam adhesive. Seams to be inconspicuous in completed work. Seams in locations shown on approved shop drawings and acceptable to manufacturer.
 - 1. After seam adhesive is applied, join seam surfaces together and clamp panel surfaces in position until adhesive sets. Promptly remove excess adhesive and clean surfaces with denatured alcohol.
 - 2. For mitered corners, cut seam surfaces with biscuit cutter and install biscuits prior to seam adhesive application. Maintain minimum three inch clearance between biscuit slots and panel front and back edges.
- C. Fill gaps between panel and terminating substrates with specified silicone sealant.

3.03 REPAIRS

- A. If permissible to Architect, minor surface marring for Thinscape Composite Tops may be repaired according to manufacturer's published installation instructions.

- B. Remove and replace Thinscape Composite Tops that are damaged and cannot be satisfactorily repaired.

3.04 CLEANING AND PROTECTION

- A. Clean Thinscape Composite Tops according to manufacturer's published maintenance instructions with cleaners acceptable to manufacturer. Completely remove excess adhesives and sealants from finished surfaces.
- B. Protect completed work from damage during the remainder of construction period.

3.05 SCHEDULE

<p>EDITING NOTE: Schedule for Thinscape Composite Tops may be inserted here if not indicated on Drawings or in Finish Schedule.</p>
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END OF SECTION 12 3661.23

*For additional information about Sustainability and Certifications please visit: [Wilsonart Corporate Sustainability](#)
Rev. Date: 2025*