



Trespa North America
 12267 Crosthwaite Circle
 Poway, CA 92064
 Phone: (800) 487-3772
 Phone: (858) 679-2090
 Fax: (858) 679-0440
 E-mail: info@TrespaNorthAmerica.com
www.TrespaNorthAmerica.com

This MANU-SPEC™ utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies plastic fabrications, including solid phenolic panels for laboratory countertops and accessory items, marketed under the TopLab® Plus trade name, manufactured by Trespa North America. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles, including 06600 Plastic Fabrications (Phenolic Laboratory Countertops).

SECTION 06600
PLASTIC FABRICATIONS
(SOLID PHENOLIC LABORATORY TOPS)

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: TopLab Plus is highly resistant to chemicals. It is recommended for use as a worksurface in laboratories where there are stringent requirements for chemical resistance and decontamination in the chemical, physical, microbiological and clinical areas.

- A. Section Includes: Plastic fabrications, including solid phenolic laboratory tops.

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

- B. Related Sections: Section(s) related to this section include:
 1. Finish Carpentry: Division 6 Finish Carpentry Section.
 2. Custom Architectural Casework and Woodwork: Division 6 Architectural Woodwork Section.
 3. Manufactured Laboratory Casework: Division 12 Laboratory Casework Section.
 4. Sinks Inserted in Solid Phenolic Laboratory Tops: Division 15 Plumbing Fixture Section.

1.02 REFERENCES

- A. Architectural Woodwork Institute (AWI):
 1. AWI Quality Manual.
- B. ASTM International:
 1. ASTM D792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
 2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. British Industry Standards (BSI):
 1. EN 438-2 Decorative High-Pressure Laminates (HPL) Sheets Based on Thermosetting Resins. Determination of Properties.

- D. Deutsches Institut für Normung e.V. (German Standards Institute) (DIN).
- E. Scientific Equipment and Furniture Association (SEFA):
 - 1. SEFA 3 Work Surfaces.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide laboratory top materials that have been manufactured, fabricated and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this Article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA™ product sheet, for specified products.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including edge conditions, panel joints, fixture locations, anchorage, accessories, finish colors, patterns and textures.
- D. Samples: Submit selection and verification samples for finishes, colors and textures.
- E. Quality Assurance Submittals: Submit the following:
 - 1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
 - 2. Certificates:
 - a. Qualification Certificates: Submit certificate indicating compliance with qualification requirements in Quality Assurance article.
 - b. Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
 - 3. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Coordinate paragraph below with Part 3 Field Quality Requirements Article herein. Retain or delete as applicable.

- 4. Manufacturer's Field Reports: Manufacturer's field reports specified herein.
- F. Closeout Submittals: Submit the following:
 - 1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operation Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
 - 2. Warranty: Warranty documents specified herein.

1.05 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer Qualifications: Manufacturer producing product in ISO 9001 certified facility, capable of providing field service representation during fabrication and approving application method.
 - a. Obtain phenolic laboratory top materials from a single manufacturer.

Specifier Note: Confirm availability of qualified fabricators meeting requirements specified below.

- 2. Fabricator/Installer Qualifications: Installer shall be [AWI certified and] approved by the manufacturer and experienced in performing work of similar type and scope.

Specifier Note: Retain paragraph below for fabricated assemblies required for review of construction, coordination of work of several sections, testing or observation of operation. Mock-ups, when accepted or approved, establish standards by which work will be judged. Coordinate below with Division 1 Quality Control (Mock-Up Requirements) Section.

- B. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, texture, pattern and workmanship standards. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.

Specifier Note: Edit paragraph below to specify mock-up size.

- 1. Mock-Up Size: [Specify mock-up size].
- 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
- 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
- C. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.

Specifier Note: Article below should include special and unique requirements.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Verify actual measurements/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.

Specifier Note: Coordinate Article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

1.08 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

Specifier Note: Trespa offers a limited warranty for a 10 year period against delamination of Trespa TopLab Plus when the product is fabricated and installed by an authorized fabricator. Contact Trespa for details.

- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 SOLID PHENOLIC LABORATORY TOPS

Specifier Note: TopLab Plus is a self-supporting flat panel based on thermosetting resins, homogeneously reinforced with cellulose fibers and manufactured under high pressure. The panels have a pigmented resin, decorative surface that is electron-beam cured. TopLab Plus brings high aesthetics and a quality appearance to sterile, chemically resistant surfaces.

- A. Manufacturer: Trespa North America.

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC™. Retain or delete paragraph below per project requirements and specifier's practice.

1. Contact: Trespa North America, 12267 Crosthwaite Circle, Poway, CA 92064; Telephone: (800) 487-3772, (858) 679-2090; Fax: (858) 679-0440; E-mail: info@TrespaNorthAmerica.com; Web site: www.TrespaNorthAmerica.com.

- B. Proprietary Product(s): Trespa TopLab Plus Laboratory Tops.

Specifier Note: TopLab Plus is available in a range of standard colors. Color matching is available on orders over 10,000 ft² (1000 m²).

1. Trespa TopLab Plus:
 - a. Material: Solid phenolic panel.
 - b. Colors: [Submit manufacturer's standard colors for selection by Architect.] [Specify standard color(s) and order number(s)].
 - c. Finish: Matt sheen.

Specifier Note: Specify panel size providing minimum number of joints.

- d. Panel Standard Sizes: [10 feet × 5 feet (3050 × 1530 mm) nominal] [8' 4" × 6' 1" (2550 × 1860 mm) nominal].
- e. Panel Thickness: [1/2 inch (13 mm)] [5/8 inch (16 mm)] [3/4 inch (20 mm)] [1 inch (25 mm)] [Select thickness.].
- f. Modulus of Elasticity: 1,500,000 psi (10,335 MPa) minimum.
- g. Shear Strength: 2000 psi (14 MPa) minimum.
- h. Compressive Strength: 24,000 psi (165 MPa) minimum.
- i. Weight: 93 pcf (1490 kg/m³) maximum.
- j. Fire Performance: Maximum flamespread of 25 per ASTM E84 (Class I, Class A).
- k. Porosity: Nonporous surface and edges.
- l. Microbial Characteristics: Will not support microorganic growth.
- m. Chemical Resistance: Provide solid phenolic panel providing minimum performance when tested for chemical resistance in accordance with SEFA 8.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.03 ACCESSORIES

- A. Laboratory Shelving: Provide solid phenolic laboratory shelving as indicated. Shelving thickness shall be 1 inch (25 mm).
- B. Pegboards: Provide solid phenolic pegboards as indicated.
- C. Reagent Racks: Provide solid phenolic reagent racks as indicated.
- D. Window Sills: Provide solid phenolic window sills in all rooms where laboratory tops are required. Sills shall be minimum 3/4 inch (20 mm) thick.
- E. Installation Materials: Provide solid phenolic laboratory top manufacturer's joint adhesive, panel adhesive and sealants as required to suit project conditions.

2.04 FABRICATION

- A. Fabricate solid phenolic laboratory tops and accessory items in accordance with manufacturer's recommendations, approved submittals and SEFA 8.

Specifier Note: Retain below as required for project.

1. Comply with requirements of AWI [Custom] [Premium] grade.
- B. Edge Treatment: [As indicated] [Specify edge treatments available from manufacturer.].
 1. Ease all top edges and vertical corners to 1/4 inch (6 mm) radius and sand smooth.

2. Provide drip groove unless otherwise indicated.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise Article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Surface Preparation: [Specify applicable product preparation requirements.].

Specifier Note: Coordinate Article below with manufacturer's recommended installation details and requirements.

3.04 INSTALLATION

- A. Laboratory Top Installation: Install laboratory tops plumb and level, and scribe to adjacent surfaces in accordance with manufacturer's recommendations.
 1. Fasten laboratory tops to supporting casework with fasteners and adhesive appropriate for use with adjoining construction as indicated on drawings and as recommended by manufacturer.
 2. Form field joints using manufacturer's recommended adhesive. Form inconspicuous and nonporous joints. Seal flexible joints using manufacturer's recommended adhesive.
- B. Interface with Other Work: [Specify applicable requirements for interface with other work.].
- C. Accessory Items: Install [Laboratory shelving] [Window sills] [Insert accessory items.] with fasteners and adhesive appropriate for use with adjoining construction as indicated on drawings and as recommended by manufacturer.

3.05 FIELD QUALITY REQUIREMENTS

Specifier Note: Edit paragraph below. Establish number and duration of periodic site visits with Owner and manufacturer, and specify below. Consult with manufacturer for services required. Coordinate paragraph below with Division 1 Quality Assurance Section and Part 1 Quality Assurance Submittals herein. Delete if manufacturer's field service not required.

- A. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 1. Site Visits: [Specify number and duration of periodic site visits.].

3.06 CLEANING

- A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.07 PROTECTION

- A. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION