

Futrus® Corner Guards made with Corian® Suggested Specifications

SECTION 10 26 00

WALL AND DOOR PROTECTION

PART 1 — GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the contract, including general and supplementary conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following horizontal and trim solid surface product types:

1. Corner Guards.
2. Bumper Guards/Handrails
3. Trim.

B. Related Sections include the following:

1. Division 1 Section "LEED Requirements" for additional LEED requirements.

2. Division 6 Section "Rough Carpentry" for Blocking.

3. Division 6 Section "Solid Surface Fabrications."

4. Division 10 Section "Wall Protection."

5. Division 16 Section "Wiring Devices."

1.3 DEFINITION

A. Solid surface is defined as nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigment.

1.4 SUBMITTALS

A. Product data:

1. For each type of product indicated.

2. Product data for the following:

a. Chemical-resistant wall cladding:

B. Shop drawings:

1. Show location of each item, dimensioned plans and elevations, largescale details, attachment devices and other components.

a. Show full-size details, edge details, thermoforming requirements, attachments, etc.

b. Show locations and sizes of cutouts and holes for fixtures or other items installed in solid surface.

C. Samples:

1. For each type of product indicated.

a. Submit minimum 6-inch sample in specified gloss.

b. Cut sample and seam together for representation of inconspicuous seam.

c. Indicate full range of color and pattern variation.

2. Approved samples will be retained as a standard for work.

D. Product data:

1. Indicate product description, fabrication information and compliance with specified performance requirements.

E. Product certificates:

1. For each type of product, signed by product manufacturer.

G. Fabricator/installer qualifications:

1. Provide copy of certification number.

H. Manufacturer certificates:

1. Signed by manufacturers certifying that they comply with requirements.

I. Maintenance data:

1. Submit manufacturer's care and maintenance data, including repair and cleaning instructions.

a. Maintenance kit for finishes shall be submitted.

2. Include in project closeout documents.

1.5 QUALITY ASSURANCE

A. Qualifications:

1. Shop that employs skilled workers who custom fabricate products similar to those required for this project, have extensive experience in thermoforming, and whose products have a record of successful in-service performance.

B. Fabricator/installer qualifications:

1. Work of this section shall be by a certified fabricator/installer, certified in writing by the manufacturer.

C. Applicable standards:

1. Standards of the following, as referenced herein:

a. American National Standards Institute (ANSI)

b. American Society for Testing and Materials (ASTM)

c. National Electrical Manufacturers Association (NEMA)

2. Fire test response characteristics:

a. Provide with the following Class A (Class I) surface burning characteristics as determined by testing identical products per UL 723

(ASTM E84) or another testing and inspecting agency acceptable to authorities having jurisdiction:

1) Flame Spread Index: 25 or less.

2) Smoke Developed Index: 450 or less.

D. Coordination drawings:

1. Shall be prepared indicating:

a. Electrical work.

b. Miscellaneous steel for the general work.

c. Indicate location of all walls (rated and non-rated), blocking

locations

and recessed wall items, etc.

2. Content:

a. Project-specific information, drawn accurately to scale.

b. Do not base coordination drawings on reproductions of the contract documents or standard printed data.

c. Indicate dimensions shown on the contract drawings and make specific note of dimensions that appear to be in conflict with submitted

equipment and minimum clearance requirements.

d. Provide alternate sketches to designer for resolution of such

conflicts.

1) Minor dimension changes and difficult installations will not be

considered changes to the contract.

3. Drawings shall:

a. Be produced in 1/2-inch scale for all fabricated items.

4. Drawings must be complete and submitted to the architect within

60 days after award of contract for record only.

a. No review or approval will be forthcoming.

b. Coordination drawings are required for the benefit of contractor's

fabricators/installers as an aid to coordination of their work so as to

eliminate or reduce conflicts that may arise during the installation of

their work.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver no components to project site until areas are ready for

installation.

B. Store components indoors prior to installation.

C. Handle materials to prevent damage to finished surfaces.

1. Provide protective coverings to prevent physical damage or staining

following installation for duration of project.

1.7 WARRANTY

A. Provide manufacturer's warranty against defects in materials.

1. Warranty shall provide material and labor to repair or replace

defective materials.

2. Damage caused by physical or chemical abuse or damage from

excessive heat will not be warranted.

1.8 MAINTENANCE

A. Provide maintenance requirements as specified by the manufacturer.

PART 2 — PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:

1. Subject to compliance with requirements, provide products by one

of the following:

a. Futrus Solutions with DuPont™ Corian® solid surfaces (basis of

design).

2.2 MATERIALS

A. Solid polymer components

1. Cast, nonporous, filled polymer, not coated, laminated or of

composite construction with through body colors meeting ANSI Z124.3

or ANSI Z124.6, having minimum physical and performance

properties specified.

2. Superficial damage to a depth of 0.010 inch (25 mm) shall be

repairable by sanding and/or polishing.

B. Solid surface material thickness:

1. 1/4 inch

2. 1/2 inch

2.3 ACCESSORIES

A. Joint adhesive:

1. Manufacturer's standard one- or two-part adhesive kit to create

inconspicuous, nonporous joints.

B. Sealant:

1. Manufacturer's standard mildew-resistant, FDA-compliant, NSF

51-compliant (food zone — any type), UL-listed silicone sealant in

colors matching components.

2.4 FACTORY FABRICATION

A. Shop assembly

1. Fabricate components to greatest extent practical to sizes and

shapes indicated, in accordance with approved shop drawings and

manufacturer's printed instructions and technical bulletins.

2. Form joints between components using manufacturer's standard

joint adhesive without conspicuous joints.

3. Rout and finish component edges with clean, sharp returns.

a. Rout cutouts, radii and contours to template.

b. Smooth edges.

c. Repair or reject defective and inaccurate work.

B. Thermoforming:

1. Comply with manufacturer's data.

2. Heat entire component.

a. Material shall be uniform, between 275 and 325 degrees

Fahrenheit during forming.

3. Form pieces to shape prior to seaming and joining.

4. Cut pieces to finished dimensions.

5. Sand edges and remove nicks and scratches.

2.5 FINISHES

A. Select from the manufacturer's standard color chart.

1. Color: _____

B. Finish: _____

1. Provide surfaces with a uniform finish.

a. Matte; gloss range of 5–20.

PART 3 — EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with fabricator present for

compliance with requirements for installation tolerances, and other

conditions affecting performance of work.

B. Proceed with installation only after unsatisfactory conditions have

been corrected.

3.2 INSTALLATION

A. Install components plumb, level and rigid, scribed to adjacent

finishes, in accordance with approved shop drawings and product data

.1. Provide product in the largest pieces available.

2. Form field joints using manufacturer's recommended adhesive,

with joints inconspicuous in finished work.

a. Exposed joints/seams shall not be allowed.

3. Reinforce field joints with solid surface strips extending a minimum

of 1 inch on either side of the seam with the strip being the same

thickness as the surface.

4. Cut and finish component edges with clean, sharp returns.

5. Rout radii and contours to template.

6. Carefully dress joints smooth, remove surface scratches and clean

entire surface.

3.3 REPAIR

A. Repair or replace damaged work, which cannot be repaired to

architect's satisfaction.

3.4 CLEANING AND PROTECTION

A. Keep components clean during installation.

B. Remove adhesives, sealants and other stains.

WRITING

3.5 SCHEDULE

A. Corner Guards:

1. Surfaces of material adhesively joined with inconspicuous seams.

Color _____

a. Vertical Thickness _____

b. Edge Details _____

c. Finish _____