

SECTION 10 22 00

ROOM DIVIDER SCREENS

(Cubiform® Screens by AAPG — Solid Phenolic Room Divider Screens)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Factory-fabricated solid phenolic room divider screens for commercial interiors, including screen panels, connecting posts, bases and feet, mounting hardware, and accessories, for space division and visual privacy.
 - 1. [Freestanding, floor-supported divider screens.]
 - 2. [Floor-anchored divider screens.]
 - 3. [Ceiling-hung divider screens.]
 - 4. [Wall-started screen runs.]
- B. Products Not Furnished or Installed Under This Section:
 - 1. In-wall blocking, backing, and reinforcement for wall-start brackets.
 - 2. Overhead structural support for ceiling-hung screens.
 - 3. Concrete, tile, and floor finishes.
 - 4. Field finishing of adjacent construction.

1.2 RELATED SECTIONS

- A. Section 05 50 00 - Metal Fabrications: Overhead structural support for ceiling-hung screens.
- B. Section 06 10 00 - Rough Carpentry: In-wall blocking and backing for wall-start brackets.
- C. Section 09 21 16 - Gypsum Board Assemblies: Wall substrates receiving brackets.
- D. Section 10 21 13.17 - Phenolic Toilet Compartments (Cubiform®): Matching solid phenolic finishes.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM A240 and ASTM A666 - Stainless Steel Sheet, Strip, and Plate.
 - 2. ASTM A743/A743M - Corrosion-Resistant Stainless Steel Castings.
 - 3. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, and Shapes.
 - 4. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. International Code Council / American National Standards Institute (ICC/ANSI):
 - 1. ICC/ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- C. U.S. Department of Justice:
 - 1. 2010 ADA Standards for Accessible Design (28 CFR Part 36).
- D. International Building Code (IBC), Chapter 8 - Interior Finishes.
- E. UL GREENGUARD / GREENGUARD Gold Certification, where required by the Project.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Conduct a conference at the Project site before installation. Review substrates, blocking, overhead support, floor conditions, screen layout and configuration, stability, accessible routes, and protection.
- B. Coordination: Coordinate blocking, overhead structural support, floor conditions, and accessible routes before fabrication.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's literature describing screen construction, colors, edge treatment, configurations, mounting types, posts, bases, and hardware.
- B. Shop Drawings: Submit plans, elevations, and details showing screen layout, panel sizes, configuration, connecting posts, bases and feet, brackets, overhead support, blocking, anchorage, and accessible clearances.

- C. Samples:
 - 1. Color Samples: Manufacturer's full range for each phenolic color and finish specified.
 - 2. Corner and Edge Sample: Solid phenolic screen corner showing core, decorative face, radiused corner, and machined beveled edge.
 - 3. Hardware Samples: One of each bracket, connecting post, foot or base, and fastener specified.
 - 4. [Decorative Pattern: Manufacturer's decorative panel design selections, and a sample or drawing of the selected through-machined pattern.]
- D. Design Data: For freestanding and floor-supported screens, submit manufacturer's data confirming stability against tipping and lateral load for the configurations specified.
- E. Certificates and Test Reports:
 - 1. Surface burning characteristics (ASTM E84) for the specified phenolic panels.
 - 2. GREENGUARD or GREENGUARD Gold certification, where required by the Project.
- F. Closeout Submittals: Submit cleaning and maintenance instructions, warranty documentation, and a record of approved colors, hardware, and product codes.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer regularly engaged in the production of solid phenolic screens and partitions of similar type, scope, and quality.
- B. Installer Qualifications: Installer experienced in phenolic screen and partition installation of comparable scope and approved by the manufacturer.
- C. Surface Burning Characteristics: Provide phenolic panels complying with the interior finish requirements of IBC Chapter 8 for the occupancy and location indicated, when tested in accordance with ASTM E84.
 - 1. Required Rating: [Class A.] [Class B.] [As required by the authority having jurisdiction.]
- D. Stability: Design freestanding and floor-supported screens to resist tipping and the lateral loads required by the applicable code for the configurations and heights specified.
- E. Accessibility: Locate screens so as not to obstruct clear floor space and accessible routes required by ICC/ANSI A117.1 and the 2010 ADA Standards.
- F. Single-Source Responsibility: Provide screens, hardware, and accessories under single-source responsibility, and matching adjacent phenolic products where specified.
- G. Mockup: [Provide one complete screen of each configuration specified, including posts, bases, and hardware, for review. The approved mockup establishes the minimum standard.]

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver screens in protective packaging identified with product, color, and Project information.
- B. Store components upright and supported in a dry, ventilated space, protected from soiling and damage. Solid phenolic is moisture-resistant; nonetheless protect faces and edges from impact and abrasion.
- C. Handle components to prevent chipping, scratching, and damage to faces, machined edges, and hardware.
- D. Immediately report damaged or missing materials to the shipper and to AAPG. Do not install missing or damaged components.

1.8 PROJECT CONDITIONS

- A. Environmental Conditions: Do not install until the building is enclosed and wet work at adjacent construction is complete and dry.
- B. Field Measurements: Verify dimensions, ceiling heights, and clearances at the Project site before fabrication where the Work depends on field conditions.

1.9 WARRANTY

- A. Manufacturer's Warranty: Provide the manufacturer's standard written warranty covering defects in materials and manufacture, including delamination and breakdown of the phenolic panels from moisture and humidity, for [fifteen (15)] years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: American Architectural Products Group (AAPG), 248 James Street, Venice, FL 34285. Telephone: +1-844-307-9571. Email: info@aapgco.com. Website: www.aapgco.com.
- B. Specified Product: Cubiform® Solid Phenolic Room Divider Screens.

2.2 SUBSTITUTIONS

- A. Substitutions: Not permitted. Requests for substitutions, comparable products, alternates, or proposed equals will not be considered.
- B. Division 01 substitution procedures do not apply to this Section. Product naming is proprietary and establishes the only acceptable manufacturer and product.

2.3 SCREEN SYSTEM — COMMON REQUIREMENTS

- A. System Description: Solid phenolic-core room divider screens for space division and visual privacy, provided as single panels or connected multi-panel runs — freestanding, floor-anchored, ceiling-hung, or wall-started — and matching adjacent Cubiform® phenolic products where specified.
- B. Panel Material: Solid phenolic core of cellulose fibers impregnated with phenolic resin and fused under heat and pressure, with integral decorative melamine faces and a [black] [color-thru] core. Self-supporting and resistant to moisture, humidity, impact, and graffiti.
- C. Panel Thickness: [1/2 inch (13 mm)] [3/4 inch (19 mm)].
- D. Panel Sizes: Widths and heights as scheduled; [nominal 24 to 48 inches (610 to 1219 mm) wide] and [48, 60, or 72 inches (1219, 1524, or 1829 mm) high].
- E. Colors, Finish, and Branding: Selected from the manufacturer's [standard] [full] color range; [color-thru]; matte or suede finish. [Digitally printed or engraved graphics and logos where scheduled.]
- F. Edges: Machined smooth with radiused corners and polished 15-degree beveled exposed edges.
- G. Decorative Through-Machining: [Provide decorative through-machined (through-cut) patterns in screen panels, selected from the manufacturer's standard decorative panel designs, for visual interest and partial transparency. Custom patterns where scheduled.]

2.4 SCREEN CONFIGURATIONS AND MOUNTING

- A. Freestanding (Floor-Supported): Screens supported on [phenolic feet] [metal bases] for portable, relocatable space division; sized and weighted for stability.
- B. Floor-Anchored: Screens anchored to the floor with posts or base plates concealed by stainless steel shoes.
- C. Ceiling-Hung: Screens suspended from overhead structural support, coordinated with Section 05 50 00.
- D. Wall-Started Runs: Screen runs beginning at a wall bracket and continuing with connecting posts.
- E. Runs, Corners, and Connections: Join adjacent panels with connecting posts; provide corners, returns, and terminations as scheduled.

2.5 POSTS, BASES, AND SUPPORTS

- A. Connecting Posts: [Aluminum] [solid phenolic] posts joining panels in a run and providing rigidity.
- B. Feet and Bases: [Phenolic feet] [stainless steel or aluminum bases] for freestanding screens, sized for stability against tipping.
- C. Floor Anchorage: Posts or base plates anchored to the floor with concealed leveling and 4-inch (102 mm) high Type 304 stainless steel shoes, No. 4 satin finish, at floor-anchored screens.
- D. Overhead Supports: Brackets and connectors for ceiling-hung screens, coordinated with the overhead structural support of Section 05 50 00.

2.6 HARDWARE

- A. General: Through-bolted, tamper-resistant hardware of [Type 304 stainless steel] [aluminum].
- B. Panel Connectors and Brackets: ["D"-type brackets] [connecting-post brackets], [aluminum] [Type 304 stainless steel], through-bolted; quantity and locations as required by the manufacturer for a rigid installation, matching adjacent Cubiform® products.

- C. Shoes and Base Covers: 4 inches (102 mm) high, Type 304 stainless steel, No. 4 satin finish, at floor-anchored screens.
- D. Fasteners: Stainless steel, tamper-resistant (one-way or pin-in-head) at exposed locations.

2.7 FABRICATION

- A. Fabricate screens square, true, and rigid, with smooth machined and beveled edges, radiused corners, and factory-drilled hardware locations.
- B. Reinforce screens internally at posts, bases, and anchorage points as required to resist imposed and lateral loads.
- C. Factory-assemble screen runs and hardware to the greatest extent practicable, and verify fit before shipment.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine floors, walls, blocking, overhead support, dimensions, and accessible routes before installation.
- B. Verify that in-wall blocking, floor anchorage, and overhead support are present, correctly located, and adequate to resist imposed and lateral loads.
- C. Do not begin installation until unsatisfactory conditions have been corrected. Beginning installation constitutes acceptance of substrates.

3.2 PREPARATION

- A. Establish layout and verify screen locations, runs, and accessible clearances.
- B. Coordinate blocking, floor anchorage, and overhead support before setting screens.

3.3 INSTALLATION

- A. Install screens plumb, level, and rigid in accordance with the approved shop drawings and the manufacturer's written instructions.
- B. Freestanding: Set screens on the specified feet or bases; verify stability against tipping before acceptance.
- C. Floor-Anchored: Anchor posts or base plates to the floor and set stainless steel shoes; secure connecting posts through the run.
- D. Ceiling-Hung: Anchor to overhead structural support; maintain plumb, aligned, and rigid installation.
- E. Wall-Started Runs: Secure the wall start to blocking; do not rely on gypsum board alone. Join panels with connecting posts and maintain consistent alignment and reveals.
- F. Locate screens to maintain required accessible clear floor space and routes.

3.4 FIELD QUALITY CONTROL

- A. Inspect the completed installation for level, plumb, stability, secure anchorage, alignment, surface condition, and conformance with the approved shop drawings and accessible requirements.
- B. Replace screens that are chipped, scratched, delaminated, misaligned, unstable, or otherwise unacceptable.

3.5 CLEANING

- A. Clean exposed surfaces with manufacturer-approved nonabrasive products. Remove markings and construction residue without damaging the finish. Solid phenolic surfaces resist graffiti; do not use abrasive pads or cleaners not approved by the manufacturer.

3.6 PROTECTION

- A. Protect completed screens from impact, staining, and damage by subsequent construction activities.
- B. Repair or replace damaged work before Substantial Completion.

END OF SECTION 10 22 00