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 60 inches (610 to 1524 mm) wide] and [24, 36, 48, 72, 96, 120, or 144 inches (610, 914, 1219, 1829, 2438, 3048, or 3658 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