SHOWER WALL PANELS

Panel Composite Systems, Inc. 6130 Cochran Road, Solon OH 44139 440.287.0101 www.SynthesisbyPCS.com

<u> PART 1 – GENERAL</u>

1.1 RELATED SECTIONS

- A. Related work specified in other sections:
 - 01 33 00 "Submittal Procedures"
 - 06 10 00 "Rough Carpentry"
 - 06 20 00 "Finish Carpentry"
 - 22 40 00 "Plumbing Fixtures"

1.2 REFERENCES

- A. Codes and Standards referenced in this section refer to the latest edition thereof.
- B. Applicable Standards referenced herein: ASTM: American Society for Testing and Materials ANSI: American National Standards Institute

1.3 SUMMARY

- A. Section includes: Porcelain composite wall panels, as indicated and specified
- B. Work Specified in this Section: Shower surround panels, Tub surround panels, and Wet room wall panels

1.4 DEFINITION

A. Porcelain composite wall panels consist of 6mm vitrified porcelain slabs adhered in-plant to a moisture-resistant backer and PVC tracks. The material is non-porous with the specified color and pattern on the porcelain surface.

1.5 SUBMITTALS

A. Shop Drawings

Installer shall provide shop drawings indicating panel sizes and seam locations.

- B. Submit samples of full range of available colors for color selection
- C. Care & Maintenance Data Provide manufacturer's care and maintenance instructions

1.6 DELIVERY, STORAGE AND HANDLING

- A. Transport and deliver all items in appropriate packaging to prevent damage.
- B. Handle materials to prevent damage to adjacent surfaces and previous work.
- C. Carry all shower wall panels vertically to avoid breakage.

1.7 QUALITY ASSURANCE

A. Source Limitations

Where porcelain composite wall panels are indicated on drawings, the material shall be **Synthesis**[™], manufactured by Panel Composite Systems, Inc., 6130 Cochran Road, Solon OH 44139. Phone 440.287.0101

B. Installation Qualifications

Porcelain composite wall panels shall be installed in accordance with published manufacturer instructions.

1.8 WARRANTY

A. Furnish the manufacturer's 10-Year Limited Warranty covering defects in material and workmanship. Term of warranty to commence upon date product is delivered to the jobsite.

PART 2 - PRODUCTS

2.1 MANUFACTURER / BASIS OF DESIGN

Synthesis™ porcelain shower surround system Panel Composite Systems, Inc. 6130 Cochran Road, Solon, OH 44139 440.287.0101

2.2 MATERIALS

A. Porcelain composite wall panels

- a. Porcelain composite wall panels shall be **Synthesis™**, manufactured by Panel Composite Systems, Inc., 6130 Cochran Road, Solon OH 44139. Phone 440.287.0101
- b. Porcelain composite wall panels consist of 6mm vitrified porcelain slabs adhered in-plant to a moisture-resistant backer and PVC tracks. The material is non-porous with the specified color and pattern on the porcelain surface.
- c. Porcelain composite wall panels shall be installed using mechanical attachments with no thinset adhesive or grout.
- d. Porcelain composite wall panels shall be removable for future plumbing repairs and shall allow for reinstallation upon completion of the repairs.
- e. Porcelain composite wall panels shall meet or exceed performance requirements listed in Section F below.
- f. All products shall carry a Limited Ten-Year Commercial Warranty covering defects in material and workmanship.

B. Products

- a. Vertical porcelain composite shower wall panels
 - Vertical porcelain composite shower wall panels shall be Synthesis[™] V-Series, manufactured by Panel Composite Systems, Inc., 6130 Cochran Road, Solon OH 44139. Phone 440.287.0101
 - ii. Vertical porcelain composite shower wall panels shall be manufactured from 6mm vitrified porcelain slabs adhered in-plant to a moisture-resistant backer and PVC tracks.
 - iii. Vertical porcelain composite shower wall panel type shall be as follows:
 - 1. Model: V-Series porcelain composite panel
 - a. Maximum panel size: 47-1/4"W x 94-1/2"H
 - b. 1-1/4" overall panel thickness
 - c. 3/4" thick at vertical edges
 - iv. Vertical porcelain composite shower wall panels shall be manufactured and supplied at largest practical sizes so as to minimize seaming at the jobsite.
 - v. Vertical porcelain composite shower wall panels shall be trimmed and scribed at time of installation to ensure proper fit
- C. Color & Pattern
 - a. Porcelain composite wall panel color/pattern
 - i. To be selected from manufacturer's standard selection of available colors and patterns
- D. Finish
 - a. To be selected from manufacturer's standard selection of finishes

- E. Basic Limitations
 - a. Material designed for interior use only.
- F. Performance Characteristics
 - a. Fire Test Data
 - i. Test data for porcelain composite wall panels shall be generated according to ASTM E 84-23: Standard Test Method for Surface Burning Characteristics of Building Materials. This procedure is catalogued by Underwriters Laboratories, Inc. as UL 723.
 - 1. The Flame Spread Index (FSI) shall be less than or equal to 25

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine all substrates to receive porcelain composite wall panels for compliance with 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 products plumb and level in locations indicated, in accordance with manufacturer's recommended installation procedures.
 - a. Trim and scribe all shower wall panels to ensure proper fit.
 - b. Cut and finish component edges with clean, sharp returns where needed.
 - c. Use manufacturer's recommended tooling, blades, bits, and published procedures for all trimming and scribing.
- B. Install manufacturer's provided in-wall, mechanical fastening system according to published manufacturer procedures, installing in-wall blocking where necessary.
- C. Porcelain composite wall panels shall be installed in one piece for all shower walls measuring less than 47-1/4" wide.
- D. Install self-adhesive, closed-cell foam gasket between panels at vertical corner joints.
- E. Install self-adhesive, waterproof flashing in one continuous piece at the following locations:
 - a. on framing behind vertical corner joints, from top of panels to top of shower base, with bottom edge inside water dam on shower base
 - b. at horizontal joint between shower base and wall framing

- F. Install manufacturer's recommended color-match sealant at all visible panel joints. Maximum joint width shall be no more than 1/8" in finished work.
- G. Installer shall not use thinset adhesive, mortar, or grout to install porcelain composite wall panels.
- H. Coordinate plumbing installation with Division 22.

3.3 CLEANING

- A. Keep components clean during installation.
- B. Remove all adhesives and sealants from product surfaces.
- C. After installation is complete, remove all excess materials, supplies, adhesives, dirt, and debris from the installation area.

3.4 PROTECTION

A. Protect surfaces from damage until project is completed. Repair or replace damaged components which cannot be repaired to the Architect's satisfaction.