



## **Patterson Whittaker Architectural Profiles**

### **PRODUCT DESCRIPTION & SPECIFICATIONS**

**Patterson Whittaker** manufactures a wide variety of architectural profiles for both interior and exterior building applications. PW products generally consist of a layer, or layers, of specialty surface top-coatings applied over reinforced, expanded polystyrene (EPS) cellular foam cores. PW products are used in both residential and commercial applications.

PW exterior-grade profiles can be safely applied to weatherproof and code-compliant wall systems such as stucco, brick, concrete, CMU block and other smooth and impermeable substrates. PW also offers materials suitable for attachment to most conventional interior wall and ceiling surfaces, as well as unique assembly and attachment systems that can provide significant installation cost savings over other common building detailing systems.

*PW products are very stable, high quality, decorative glue-on materials that do not require penetration of the waterproof membrane for secure attachment and are not intended for use as component of the primary envelope system.* PW's lightweight composition also helps protect architects, contractors and installers from liability issues commonly associated with settling, structural loading or seismic episodes.

Patterson Whittaker architectural profiles are manufactured to strict quality standards.

PW shapes are RADCO Approved to Federal Manufactured Housing Construction and Safety Standards.

#### **PRODUCT COMPOSITION**

##### **PW Acrylic/Cementitious Base Coat**

Base-coated products generally consist of a co-polymer and cement mixture embedded in an open-weave, treated, fiberglass reinforcement mesh.

##### **PW Finish Coatings**

Surface coatings vary for each specific PW product offering.

##### **Expanded Polystyrene (EPS) Foam**

Unlike *Styrofoam*, a trademark Dow Chemical product, EPS products are molded cellular blocks, 100% recyclable, and free of ozone depleting CFC's and HCFC's.

EPS is a completely inert, non-toxic, recyclable material.

**PERFORMANCE TESTING DATA**

PROPERTY	STANDARD	TEST RESULTS
Weatherometer test (xenon arc - UV)	ASTM G 155/G26	No changes in product appearance after 2500 hour test exposure.
Impact Resistance	1kg, 52.5 mm steel ball dropped from 1.0m	No cracks or perforations. No chipping.
Water Absorption	ASTMD570	2.16%- 7.28% absorption with 24 hour submersion.
Freeze/Thaw	AC-11 Section 4.2	No visible change after 25 cycles over 90 days.
Flame Spread	CAN/ULC S102-03	Classification: 60, after exposure without sealed perimeters.
Smoke Index	CAN/ULC S102-03	Smoke developed: 365 without sealed perimeters.

**EPS conforming to CAN/CGSB-51 GP20M Type I, ASTM C578-87, ASTM C-050-85, UL 790, UL 723:**

Thermal Conductivity	ASTM C-177	"K" Factor 0.26 maximum @ 40F 0.28 maximum @ 75F
Average Density	ASTM D-1622	1.0 lb/ cu ft. average
Compressive Strength	ASTM D-1621	10psi @ 10% offset
Coefficient of Expansion	ASTM D- 696	3.5 x 10 <sup>-5</sup> in./in./F
Water Vapor Transmission	ASTM E- 96	1.6 perm- inch minimum
Oxygen Index	ASTM D- 2863	24.0 minimum

**National Standard of Canada Testing CAN/ULC S701-97:**

Thermal Resistance (R value @ 75F)	C177 or C518	Type 1 – 3.75 minimum Type 2 – 4.04 minimum
Compressive Strength	D 1621	Type 1 – 10 minimum Type 2 - 16 minimum
Flexural strength	C 203	Type 1 - 25 psi minimum Type 2 - 35 psi minimum
Water Absorption (% by volume)	D 2842	Type 1 - 5.2 maximum Type 2 - 3.5 maximum
Dimensional Stability (% linear change)	D 2126	Type 1 - 1.5% maximum Type 2 - 1.5% maximum

***Please call Patterson Whittaker for further or updated information.***