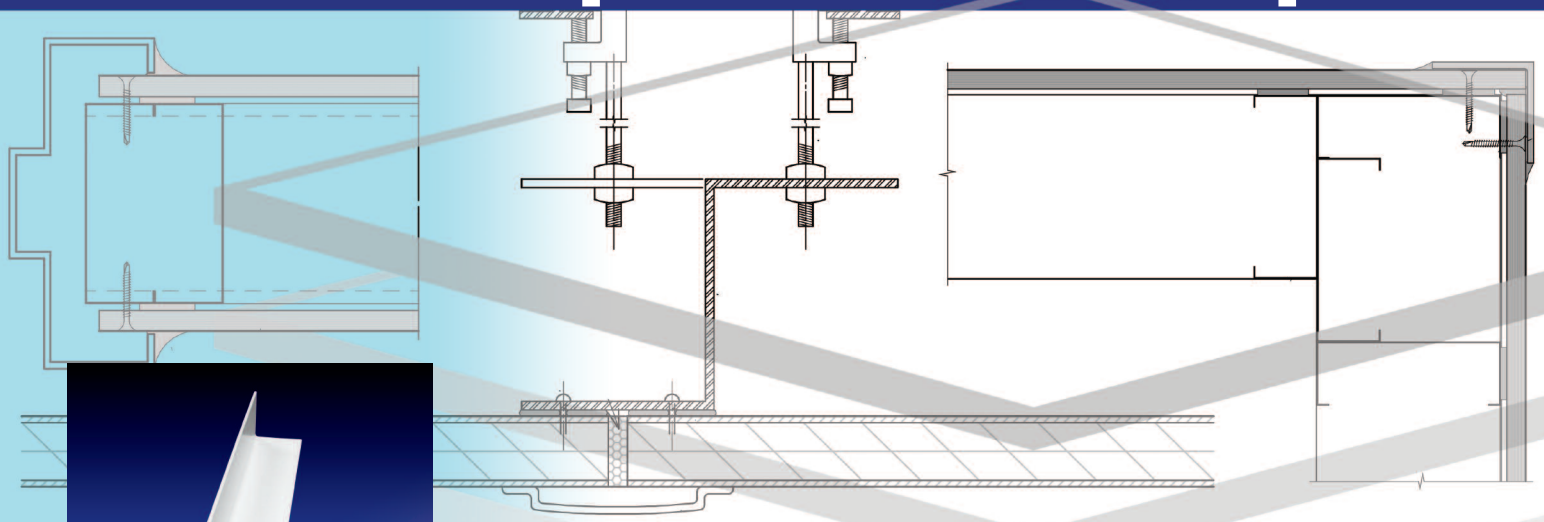
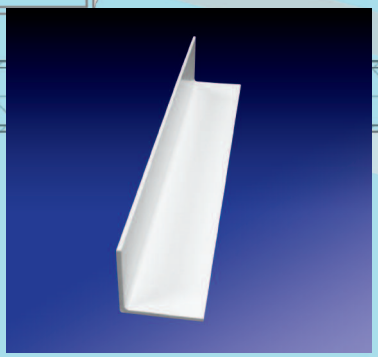
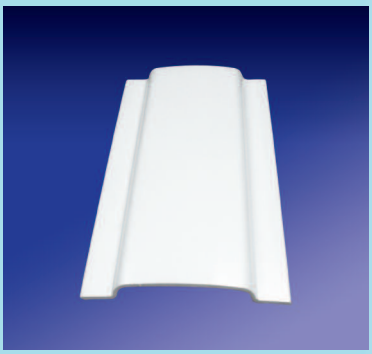
Arcoplast pultruded shapes

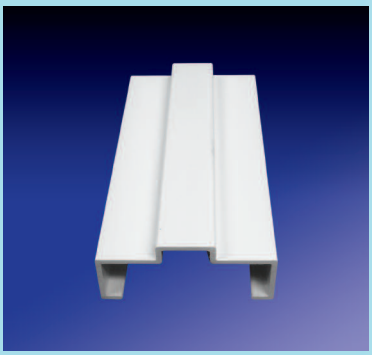




Pultruded Angle Item # A-1030
Dimension: 2” x 2” x 12’-0”
(50mmx50mmx3.65m)



Pultruded Cover Item # A-1035
Dimension: 3” x 3/8” x 12’-0”
(75mmx9.5mmx3.65m)



Door and Window Frames
Dimension: 2” x 5 ¾” x .625

Arcoplast pultruded shapes are manufactured with a blend of polyester resin, unidirectional glass core fibers with travers layers of mat reinforcement and surfacing veils creating unique shapes and dimensions.

Through specific tooling design, pultruded glass matrix with pigmented resins can be manufactured to varied geometric shapes and because of the continuous process, the shapes can be cut to desired lengths. Pultruded shapes are aesthetic, resistant to many corrosive chemicals, rot and insect resistant, non-conductive and dimensionally stable.

Pultruded shapes have significantly higher strength-to-weight ratio and pound-for-pound are stronger than aluminum and steel and will not permanently deform under impact. The pigmented resin provides color throughout the part and the composite design can be customized for required finishes.

Pultruded shapes are easy to fasten and install in the field with adhesive bonding and mechanical fasteners.

Material Properties of Mat and Roving Reinforced Polyester Resin

Tensile Strength: 30,000 (psi)
Trans. Tensile strength: 3,400 – 8,000
Compressive Strength: 30,000 (psi)
Flexural Strength: 30,000 (psi)
Density: 0.065 (lb/in^3)
Percent Glass: 40-60%

Tensile Modulus: 2.9 x 10^6 (psi)
Trans. Tensile Modulus: 1.2 x 10^6 (psi)
Compressive Modulus: 2.9 x 10^6 (psi)
Flexural Modulus: 1.2 x 10^6 (psi)
Specific Gravity: 1.8
24 hr. Water Absorption: 0.15 (% Max)

Coefficient of Thermal Expansion: 5x10^6 for temperature range of -30 to 70°F (in/in/°F)

The above Mechanical Properties are minimum design values.

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WALL AND CEILING SYSTEMS

Composite Surfaces for Sterile Environments

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