

arcoplast Molded Architectural Shapes

Sealed system components of solid glass and resin matrix composite

Beam Covers, Column Covers, Bulkhead Liners, Chases and Canopy Hoods

An integral component to the Arcoplast Sealed Interior Systems for critical environments

- Molded one-piece glass fiber reinforced architectural profiles
- Insulated wall construction
- High-gloss gel coat surface
- Multiple beam dimensions
- Lightweight and durable
- Easy installation

Applications

- Research laboratories
- Biocontainment
- BSL-3, BSL-4 & BSL-3 Ag
- Human & animal health care
- Pharmaceutical
- Nutraceutical
- Food & beverage processing



arcoplast[®]

WALL AND CEILING SYSTEMS

Composite Surfaces for Critical Environments

www.arcoplast.com

arcoplast Beam Covers and Column Covers

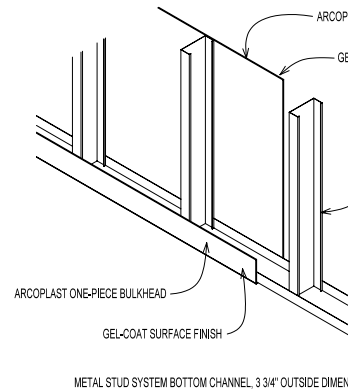
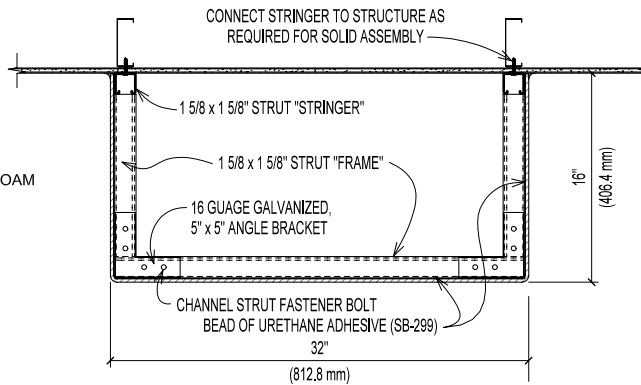
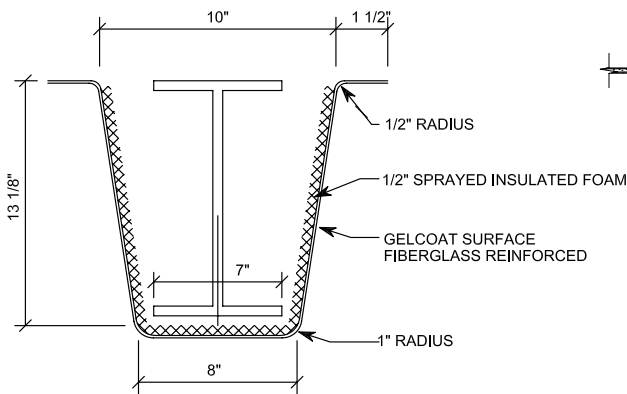
Sealed systems of solid glass-fiber and resin matrix composite

Advantages

- Providing a permanent protective seal
- Freeze-thaw cycle resistant
- Rodent, vermin and fungi resistant
- Moisture and corrosion resistant
- Chemical resistant
- Fire-retardant resin
- Molded high density fiber glass core
- Extends life expectancy of building structures
- Integrates with structural elevations
- Encorporates and protects MEP (mechanical, electrical and plumbing)

Use/Application

- New construction
- Renovations
- Stringent aseptic conditions
- Highly corrosive environments



Custom Beam Covers, Column Covers, Bulkhead Liners, Chases and Canopy Hoods are manufactured in a wide variety of dimensions, shapes and configurations



Bulkheads Liners, Chases and Canopy Hoods

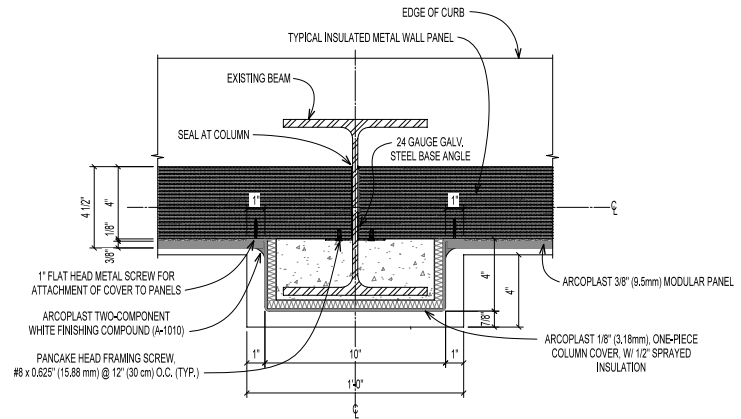
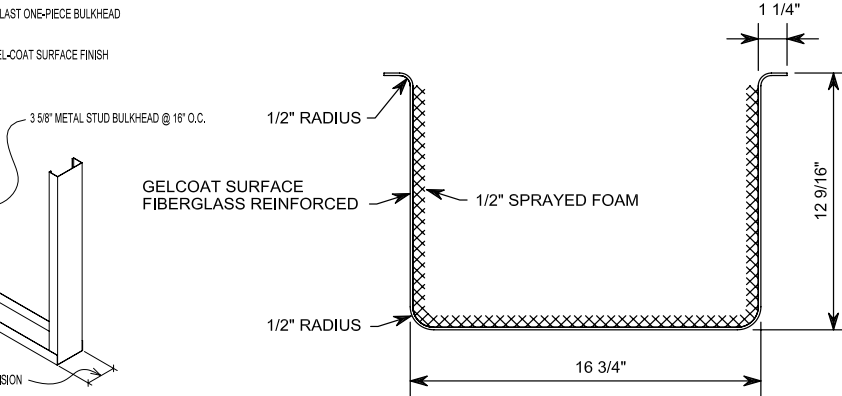
Components for critical environments that require a sealed interior



Arcoplast wall and ceiling systems are designed for clinical, diagnostic, research and production facilities in new or existing buildings.

Arcoplast solid glass and resin matrix Beam Covers, Column Covers, Chases, Bulkhead Liners and Canopy Hoods can be used as part of high containment applications when used in conjunction with Arcoplast composite panels.

The Arcoplast system is bonded together and sealed in one step with a two-component mix of high-strength finishing compound.



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Product Specification

PART 1 GENERAL

1.1 Section Includes

- A Beam Covers
- B Column Covers
- C Bulkhead Liners
- D Chases
- E Canopy Hoods

1.2 Related Sections

- A Section 09546 closed-edge ceiling tiles
- B Section 09547 concealed hanger suspended ceilings
- C Section 09548 attached ceilings
- D Section 06610 glass fiber reinforced composite panels
- E Section 115301 laboratory equipment wall panels and canopy hood

1.3 References

- A ASTM D 1621 Compressive properties of rigid cellular plastics
- B ASTM D 2538 Barcol hardness
- C ASTM E 96 Water Vapor Transmission
- D ASTM D 3273 Standard test method for resistance to growth of mold on surface
- E ASTM D 3274 Standard test method for evaluating degree of surface disfigurement by fungal or algal growth or soil or dirt accumulation
- F ISO 846 Evaluation of the action of Microorganism Resistance to Fungi and Bacteria Test Method

1.4 Submittals

- A Comply with section 01330 submittal procedures
- B Product Data: Submit manufacturer's product data including installation instructions
- C Shop drawings: Submit manufacturer's shop drawings of Molded Architectural Shapes
- D Samples: Submit manufacturer's samples of Molded Architectural Shapes
- E Manufacturer's certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application
- F Warranty: Submit manufacturer's standard warranty

1.5 Delivery, Storage and Handling

- A Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer
- B Storage: Store Molded Architectural Shapes in clean, dry area in accordance with manufacturer's instructions
- C Handling: Protect materials and finish from damage during handling and installation in accordance with manufacturer's instruction

PART 2 PRODUCTS

2.1 Manufacturer

Arcoplast, Inc., 1873 Williamstown Drive, St. Peters, MO 63376. Toll free 888 736 2726 P 636 978 7781 F 636 978 7782 Web site www.arcoplast.com

2.2 Molded Architectural Shapes

Molded Architectural Shapes: Foam Core with exposed side of one-piece, uniform, glass-fiber mat embedded in resin matrix and gel coat facing

- A Foam Core: ½ inch thick, polyisocyanurate close cell, class A
- B Resin/Glass Matrix: Glass strand fiber mats minimum 25% embedded in fire retardant resinous system
- C Color: Standard white or specially formulated per requirements.
- D Thermal Resistance: R: 6.56 per inch of foam
- E Thermal Conductivity: 0.15 BTU in/ft-h-degree F (0.022 W/m-degree C)
- F Core Shear Strength: 28 pounds per inch (193kPa)
- G Core compression Strength – ASTM D 1621; 25 pounds per inch (170kPa)
- H Barcol Hardness – ASTM D 2538: 45
- I Water Vapor Transmission – ASTM E 96: Less than 0.01

PART 3 EXECUTION

3.1 Examination

- A Examine areas to receive Molded Architectural Shapes. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected

3.2 Installation

- A Install Molded Architectural Shapes in accordance with manufacturer's instruction
- B Install Molded Architectural Shapes level and in alignment
- C Repair minor damages to finish in accordance with manufacturer's instructions and as approved by architect
- D Remove and replace damaged components that cannot be successfully repaired as determined by architect.

3.3 Cleaning

- A Clean Molded Architectural Shapes properly after installation in accordance with manufacturer's instructions
- B Do not use harsh abrasive materials or methods that would damage finish

3.4 Protection

Keep covered with polyethylene film and protect Molded Architectural Shapes from damages

3.5 Gel Coat Repair

Repair surface damages or scratches with gel coat putty per manufacturers instructions

Information provided in this document is based on tests believed to be reliable. Values represent typical values. Not all tests are run on each lot of material produced.



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1873 Williamstown Drive, St. Peters, Missouri 63376
Phone 636-978-7781, Fax 636-978-7782