

## Product Name

Architectural Ornaments from Metal Matrix Polymer Composite:

### SCULPTMETAL™

## Manufacturer

Pineapple Grove Designs  
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## Product Description

### Use:

Product is intended for interior or exterior nonstructural ornamentation on masonry, metal or frame construction for architectural aesthetics.

- Walls of new construction, exterior or interior
- Remodeling and redecorating of existing walls, exterior or interior

### Limitations:

Should not be assumed to add strength to load-bearing capacity of wall.

### Composition and Finish:

Metal alloys are bonded to an engineered metal matrix polymer composition consisting of polymer, ground aluminum, Kevlar™/Carbon/Glass fiber reinforcement and ±50% by volume post consumer recycled material. SculptMetal™ is available in hand polished bright and patina metal finishes or color painted finishes.

SculptMetal™ is available in the following four metal finishes:

Antique Bronze  
Antique Nickel  
Iron Rust  
Patina Bronze

and the following eight paint finishes:

Baked Earth  
Cayenne Red  
Chalk  
Ebony  
Nut Brown  
Putty  
Statue Green  
Wine

Purchaser may elect to paint, or otherwise change the finish of SculptMetal™ similar to any other non-porous product.

### Organization of Design Elements:

Designs are available in Medallions with solid backgrounds as well as Architectural Grille forms with open backgrounds. Designs are also available in Friezes with a variety of frame combinations for horizontal and vertical banding applications. Multiple elements can be combined to reinforce any architectural theme. All standard Architectural Grille designs are also available as standard Medallion designs. Not all standard Medallion designs are available as standard Architectural Grilles.

SculptMetal™ is also available in various custom configurations for bas-relief sculpture, word panels, signage, informational and commemorative panels, and other decorative architectural elements.

These original designs are protected by U.S. Copyright. Unlawful duplication is prohibited.

### Shapes and Sizes:

SculptMetal™ Medallions are available in multiple sized square, circular (round), half-round, keystone and frieze shapes in a variety of sizes. Custom Medallions are available in any shape or size required.

SculptMetal™ Architectural Grilles are available in square shapes up to 72" x 72" and rectangle shapes up to 72" x 120". Custom Architectural Grilles are available in any shape or size required. Larger sizes can be achieved by combining Architectural Grille sections.

**Note:** All items have an approximate thickness of 1" overall.

### Product Line Breadth:

Medallions: Over 100 original designs in multiple sizes and shapes.

Friezes: Over 100 original designs in 8" or 16" heights. The length of each Frieze is determined by the addition of border frame(s) to each end of Frieze panel.

Architectural Grilles: 60 original square designs in multiple sizes.

Architectural Grilles, Medallions and Friezes are available in custom designs.

Architectural Grilles and Medallions can be shadow enhanced with the addition of SculptMetal™ offset blocks which mount the item 1 1/2" from the finish surface of the wall. Matching plugs are provided as decorative covers over stainless steel mounting anchor screws.

# TECH DATA

**Technical data furnished herein has been determined by independent testing laboratories and is believed to be reliable by manufacturer. This document supercedes all previous similar documents.**

## Technical Data

### Shear Strength:

1 1/4" embedment in 3000 psi concrete for each anchor average 1622 lbs.

### Pullout Strength:

1 1/4" embedment in 3000 psi concrete for each anchor average 1616 lbs.

### Compressive Strength:

ASTM D695 average of 19000 psi.

### Tensile Strength:

ASTM D3039 average of 29800 psi.

### Flexural Strength:

ASTM D790 average of 7700 psi.

### Weight:

SculptMetal™: Dry weight approximately 8 lbs., per surface square foot.

### Water Absorption:

Water absorption is usually less than .001%.

### Fire Hazard:

Flame spread rate ASTM E162.

### Weatherability:

ASTM G154 0% degradation after 1000 Hrs.

### Other Characteristics:

SculptMetal™ is lightweight, extremely durable, resistant to frost damage and UV degradation.

## Installation

Detailed installation procedures are contained in Tables 1 and 2 and Figures 1-10.

Product can be typically affixed with stainless steel anchor screws to a prepared interior or exterior surface. In adverse site conditions or where there is a potential for application failure, alternate installation methods may be required.

Qualified carpentry contractor, qualified tile setter or qualified fixture installer is usual installer.

Composition and physical characteristics may change due to market and technological conditions without notice.

**Availability and Cost**

**Availability:**

Available from manufacturer at (800) 771-4595.

**Cost:**

Product is priced according to shape, size and finish. Product is shipped F.O.B. factory; job site cost of product is therefore affected by distance from manufacturing plant.

Application cost may be affected by the condition of the surface to receive the product and any preparation required prior to installation.

**Warranty**

Pineapple Grove Designs warrants that all SculptMetal™ products are of merchantable quality and will be replaced if defective and manufacturer is notified of defect by purchaser within ten days of receipt of material. No other warranties, implied or expressed, are applicable.

The warranty covers only manufacturing defects in SculptMetal™ architectural ornaments. It does not cover cost of labor, other materials, damage to other materials, or incidental damages which may result from manufacturer's defect. Product must be inspected by purchaser prior to installation. See Terms & Conditions for complete warranty.

**Maintenance**

Most applications of SculptMetal™ require no maintenance. Regular cleaning will help maintain the factory finish of the item.

SculptMetal™ may be cleaned with a pH balanced mild detergent cleaner. Follow cleaner manufacturer's instructions.

**Technical Support**

Technical personnel are available for consultation with architects, engineers, applicators and owners to discuss type selection, costs, installation procedures, etc.

**TABLE 1 - SUBSTRATE PREPARATION**

SUBSTRATE	CONDITION	PREPARATION
Concrete, Masonry, Stucco on Block, Stucco on Lathe	Clean, Untreated	No preparation required.
	Dirty, Form Oil Residue	Clean surface with detergent & water then rinse thoroughly and/or scour with a wire brush.
	Painted, Sealed	Thoroughly wash away dirt, dust, and chalking paint.
Polystyrene Board	Smooth Surface (Tilt-up, FRC Board)	No preparation required.
		Apply glass fiber cloth & waterproof coat of polymer stucco according to manuf. instructions before applying medallion.
Interior Gypsum Board, Two Coat Plaster	New, Unpainted	No preparation required.
	Painted, Dirty	Remove loose or flaking paint. Clean as per adhesive manufacturer's specifications.

**TABLE 2 - INSTALLATION PROCEDURES**

SUBSTRATE	PROCEDURE
Exterior Concrete, Masonry Stucco on Block, Stucco on Lathe	Prepare surface as indicated in Table 1. Apply offset blocks, if required to Architectural Grille forms, before proceeding with installation. Install SculptMetal™ cast composite metal solid back ornaments and Architectural Grilles using 1/4" diameter 410 stainless steel TAPCON® screws supplied with SculptMetal™ item. Drill receiving holes in substrate according to fastener manufacturer's instructions. Fasteners shall pass through the predrilled holes in the SculptMetal™ item and be sufficiently tightened to securely fasten the item to the substrate. Care shall be taken to not excessively tighten the fastener which may result in pull through or breaking to the substrate. When required, adhesive shall be affixed following adhesive manufacturer's instructions. Allow 1/4" minimum joint between adjacent pieces for caulk. Caulk perimeter and any joints with caulk containing premium elastomeric ingredients.
Polymeric Stucco over Polystyrene Board	Stainless steel anchor screws must penetrate through polystyrene panel to structural substrate base. Use approved waterproof caulk adhesive at point of penetration to prevent water from entering screw hole.
Interior Gypsum Board, Two-Coat Plaster	Prepare surface as indicated in Table 1. Predrilled pieces may be fastened with screws and back plates or toggle bolts to wall.

**Note:** Tables 1 and 2 assume wall is structurally sound, stable, and weather tight.  
**Note:** Ultimate connection design is the responsibility of Building Design Engineer, Architect or otherwise responsible person charged with the connection design.

**Warning!** Failure to follow these instructions or to install product in an insecure or unsafe manner can result in property damage, serious injury or death. All ornaments and Grilles are nonstructural and are not intended to be used as a lifesaving barrier.

Personal safety equipment required for installation. See SculptMetal™ Installation Specs 3.2 A