SECTION 05 70 00 DECORATIVE METAL PANELS

PART **1**- GENERAL

* 1. SUMMARY
		1. Section Includes: Decorative patterned metal panels used for:
			1. {Aluminum Partition Panels}
1. {Aluminum Wall Art Panels}
2. {Aluminum Inserts for Fixed or Operable Doors}
3. {Aluminum Shade Panels}
4. {Aluminum Railing Panels}
5. {Aluminum Spandrel Panels}
6. Related Sections:
	1. Work to which products of this Section will be mounted.
	2. REFERENCES
		1. AA -Aluminum Association, *Aluminum Standards and Data.*
		2. AAMA 2605 -*Kynar/Hylar Coatings on Aluminum Extrusions and Panels .*
		3. AAMA 2603, 2604 or 2605 as applicable.
	3. SUBMITTALS
		1. Comply with Section {specify}
7. Product Submittal Data:
	1. Patterns
	2. Materials *I* Thickness
	3. Finish Type {Kynar/Hylar or Powder Coat}
	4. Color
	5. Provide calculations from third-party engineer licensed in the state where project is located. Calculations shall include dead load, snow/ice loads (if applicable) and wind loads (if applicable).
	6. Installation
	7. Cleaning and maintenance.
8. Samples: Submit sample in size as necessary to show patterns to be provided and appearance of specified finish.
9. Shop Drawings: For each type of panel show material, thickness, dimensions, pattern, finish, fasteners, and other information necessary to describe work to be provided.

# QUALITY ASSURANCE

* + 1. Installer: Minimum five years of experience installing decorative metal panels.
1. Mock-Ups (when required):
	1. Install at factory or project site as directed by Architect.
	2. Size: As shown in Drawings or scale directed by Architect.
	3. Full-size mock-ups may remain as part of Work.

# STORAGE AND HANDLING

* + 1. Comply with manufacturer's instructions for storage and installation.

B. Protect against damage during construction.

# WARRANTY

* + 1. Submit panel manufacturer's limited warranty:
			1. Material and Workmanship
			2. Factory-Applied Finish:

{Kynar/Hylar -20 years.}

{Powder Coat- 5 years}

# PART 2 - PRODUCTS

* 1. PANELS

A. Sombras Panels by MM Systems

# MANUFACTURER

* + 1. MM Systems Corporation
1. [Substitutions: None acceptable.]
2. [Substitution Limitations: Substitution requests shall be submitted in accordance with Division {specify} and shall include:
	1. Documentation that manufacturer has five years of experience manufacturing waterjet cut panels of type and quality specified and is licensed to produce any SOMBRAS copyrighted designs.
	2. Documentation that manufacturer has in-house finishing facility for specified finish.
	3. Sample panel not less than 24 x 24 inches demonstrating materials, thicknesses, and finishes.
	4. Sample Warranty for Specified Finish.]

# PERFORMANCE CRITERIA

* 1. MATERIALS:
		1. Aluminum:
			1. Material: 5052-H32 or 6061-T6 series aluminum plate in specified thickness.
			2. Finish:

 {Factory-Applied Kynar ® 500 PVDF High Performance Coating in color specified by Architect.}

 {Factory-Applied Powder Coat Finish in color specified by Architect.}

# FABRICATION

* + 1. Pattern: Cut metal with waterjet capable of edge quality approved by Architect.

B. Provide factory fabricated mounting holes for fasteners to extent practical.

C. Apply finish in accordance with applicable AAMA standards.

# PART 3 - EXECUTION

# INSTALLATION

* + 1. Install in accordance with contract documents and manufacturer's instructions.

B. Factory-painted surfaces: Protect all surfaces during installation.

# PROTECTION AND REPAIRS

* + 1. Protect installed panels from damage.

B. Damaged panels that cannot be repaired to Architect's satisfaction shall be removed and replaced with new panels.

# END OF SECTION