

Modular Arts, Inc.

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modulararts®

3-Part Specification for

AuralScapes®

Acoustic Wall Panels

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GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI), AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING. THE BASIC FORMAT FOLLOWS CSI'S *SECTIONFORMAT™/PAGEFORMAT,™* 2008 EDITION

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. NUMBERS AND TITLES REFERENCED ARE BASED ON *MASTERFORMAT™*, 2010 EDITION.

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING:

- 01 25 00 SUBSTITUTION PROCEDURES
- 01 33 00 SUBMITTAL PROCEDURES
- 01 43 36 FIELD SAMPLES
- 01 62 00 PRODUCT OPTIONS
- 01 66 00 PRODUCT STORAGE AND HANDLING REQUIREMENTS
- 01 74 00 CLEANING AND WASTE MANAGEMENT
- 01 77 00 CLOSEOUT PROCEDURES
- 01 78 00 CLOSEOUT SUBMITTALS

CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS A CLOSED PROPRIETARY SPECIFICATION.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

GREY HIGHLIGHTED GREEN TEXT AND NOTES ARE APPLICABLE TO PROJECTS SEEKING CERTIFICATION BY A SUSTAINABLE BUILDING RATING AGENCY. LEED® V3 (2009) CRITERIA IS REFERENCED HEREIN AND SHOULD BE MODIFIED ACCORDINGLY IF THE USGBC IS NOT THE CERTIFICATION AGENCY. THIS TEXT MAY BE DELETED IN ITS ENTIRETY IF THE PROJECT IS NOT INTENDED TO ATTAIN A SUSTAINABLE BUILDING CERTIFICATION.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G. [35] [40] [45]. MAKE APPROPRIATE SELECTIONS AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G. _____ .

VIOLET TEXT IDENTIFIES OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE INCLUDED OR DELETED DEPENDING ON PROJECT REQUIREMENTS. CONVERT THE VIOLET TEXT TO BLACK WHEN INCLUDING THESE PARAGRAPHS OR FEATURES. WHEN DELETING A PARAGRAPH, BE CERTAIN THAT ALL SUBPARAGRAPHS ARE ALSO DELETED.

REVISE HEADER AND FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

ELECTRONIC VERSIONS OF THIS SPECIFICATION UTILIZE AUTOMATIC PARAGRAPH NUMBERING.

WHEN EDITING IS COMPLETE, DELETE ALL TEXT ON THESE TWO PAGES, THEN REMOVE THE SECTION BREAK AT THE TOP OF THE NEXT PAGE TO REMOVE THESE PAGES FROM THE DOCUMENT.

SPECIFICATION BEGINS ON THE FOLLOWING PAGE.

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Date

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SECTION 06 26 14

MINERAL PROFILE PANELING

1. GENERAL

1.1. SUMMARY

- A. Section Includes: Light weight composite mineral profile paneling with PET inserts to create sculptural acoustic wall features.

COORDINATE FOLLOWING PARAGRAPH WITH 2.2 B. RETAIN IF INSTALLATION KIT IS SPECIFIED IN 2.2 B. DELETE IF INSTALLATION KIT IS NOT SPECIFIED.

- B. Products Supplied but Not Installed/Used Under This Section: Installation instructions.

INCLUDE PARAGRAPH AS FOLLOWS IN GYPSUM BOARD SECTION UNDER 1.1 SUMMARY: "PRODUCTS FINISHED BUT NOT SUPPLIED UNDER THIS SECTION: MINERAL PROFILE PANELING –SECTION 06 26 14."

- C. Related Requirements:

1. 26 51 00–Interior Lighting.

INCLUDE APPROPRIATE LANGUAGE BELOW IF PRODUCTS SPECIFIED IN THIS SECTION ARE TO BE BID AS ALTERNATES. OTHERWISE DELETE FOLLOWING ARTICLE.

1.2. PRICE AND PAYMENT PROCEDURES

- A. Alternates:

1. Refer to Section 01 23 00 Alternates.

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1.3. REFERENCES

A. Abbreviations and Acronyms:

1. ASTM American Society for Testing and Materials.
2. GA Gypsum Association.
3. LEED®: Leadership in Energy and Environmental Design.
4. USGBC United States Green Building Council.

B. Reference Standards:

1. ASTM D 256 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
2. ASTM D 696 Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer.
3. NFPA 286 Standard Methods of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
4. ASTM E 84 Standard Test Methods for Surface Burning Characteristics of Building Materials.
5. US Green Building Council: LEED® Green Building Rating System™.

1.4. ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Meetings:

1. Convene meeting at project site within one week of scheduled start of installation with representatives of the following in attendance: Owner, Architect, General Contractor, Installer, Finisher, and Painter.
2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.
3. Keep minutes of meeting including responsibilities of various parties and deviations from specifications and installation instructions.

1.5. ACTION SUBMITTALS

A. Product Data: Each product specified.

B. Project List: Minimum 5 previous completed ModularArts, Inc. installations or 5 installations of similar materials and complexity. Include contact name and e-mail address or telephone number for each project.

C. Shop Drawings: Show standard and project specific details including termination at adjacent surfaces.

D. Samples: Minimum 15 by 15 inch panel of specified design(s).

1.6. INFORMATIONAL SUBMITTALS

A. Manufacturer's installation instructions.

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RETAIN PARAGRAPH B., C., D., OR E. BELOW DEPENDING ON PROJECT TYPE AND DELETE THE INAPPROPRIATE PARAGRAPHS.

- B. **LEED® for Commercial Interiors Sustainable Design Submittals:**
 - 1. LEED® Materials and Resources 2.1/2.2 – Construction Waste Management.
 - 2. LEED® Indoor Environmental Quality 4.1 – Adhesives and Sealants.

- C. **LEED® for [New Construction] Sustainable Design Submittals:**
 - 1. LEED® Materials and Resources 2.1/2.2 – Construction Waste Management.
 - 2. LEED® Materials and Resources 5.1 – Regional Materials (based on project location).
 - 3. LEED® Indoor Environmental Quality 4.1 – Adhesives and Sealants.

- D. **LEED® for Core & Shell Sustainable Design Submittals:**
 - 1. LEED® Materials and Resources 2.1/2.2 – Construction Waste Management.
 - 2. LEED® Indoor Environmental Quality 4.1 – Adhesives and Sealants.

- E. **LEED® for [New Construction and Major Renovations] [Schools] Sustainable Design Submittals:**
 - 1. LEED® Materials and Resources 2.1/2.2 – Construction Waste Management.
 - 2. LEED® Indoor Environmental Quality 4.1 – Adhesives and Sealants.

COMPLETE FOLLOWING PARAGRAPH IN COORDINATION WITH THE QUALITY ASSURANCE ARTICLE, PARAGRAPH A.

- F. Regulatory agency sustainability submittals:
- G. Qualification Statements: Proof of manufacturer, and installer qualifications.

1.7. QUALITY ASSURANCE

FOLLOWING APPROVALS MAY BE REQUIRED BY CERTAIN REGULATORY AGENCIES WHETHER OF NOT THE PROJECT IS SEEKING A SUSTAINABLE BUILDING CERTIFICATION. INCLUDE APPROVALS AS REQUIRED.

- A. Regulatory Agency Sustainability Approvals:
- B. Qualifications:
 - 1. Manufacturer: Minimum five years' experience in producing mineral profile paneling.
 - 2. Installer: Minimum three years' experience in finish carpentry/architectural woodwork installation.

INCLUDE A REQUIREMENT IN THE QUALIFICATIONS PARAGRAPH OF 09 29 00–GYPSUM BOARD, SPECIFYING A MINIMUM OF THREE YEARS EXPERIENCE FOR THE TECHNICIAN FINISHING THE SEAMS OF THE PROFILE PANELING SPECIFIED IN THIS SECTION.

- C. **Field Samples:**
 - 1. Provide in a location selected by Architect showing representative sample of installed product including finished seam.

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2. Minimum Size: [8 by 8 feet] [___ by ___ feet].
3. Do not proceed with additional work until field sample installation has been approved by Architect.
4. If needed, refinish field sample installation as needed to obtain approval.
5. Approved field samples may remain as part of completed Work.

1.8. DELIVERY, STORAGE, AND HANDLING

A. Storage and Handling Requirements:

1. Store panels in fully enclosed environmentally controlled space, protected against damage from moisture, direct sunlight, extreme temperatures, and surface contamination.
2. Store panels vertically, in shipping crates, until ready to be installed. Loosen crate lids to allow for venting. Do not stack or lean against walls.
3. Store panels in area of installation minimum 24 hours prior to installation.

B. Packaging Waste Management: 100 percent of materials used to package components of this section shall be recyclable.

1.9. FIELD CONDITIONS

A. Ambient Conditions:

1. HVAC: Operate HVAC system to maintain occupancy level temperature and relative humidity conditions (35 to 67 percent) in the area of installation from 24 hours prior to delivery of panels to the installation area through remainder of construction period.

1.10. WARRANTY

A. Manufacturer Warranty: Provide manufacturer's standard [limited warranty](#).

2. PRODUCTS

2.1. MANUFACTURER

A. Modular Arts, Inc.

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2400 NW 80th St. #106
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Tel: 206.788.4210
Fax: 206.788.4214
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Website: www.modularArts.com

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Kent, WA 98032

B. Substitution Limitations: None permitted.

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2.2. COMPONENTS

A. Profile Panel: Smooth surface mineral composite panel with light weight plant-based foam back.

1. Size: 32 by 32 by 8 inch maximum profile relief.

(1) Physical Properties (PET felt only):

a. Flame Spread Burn Test (Manufacturer reported): ASTM E 84 Class A

(2) Physical Properties (Panels only):

- | | |
|--|--------------------------------|
| a. Izod Impact Strength: ASTM D 256 | 9.4 ft-lb/in ² |
| b. Thermal Expansion: ASTM D 696 | 3.8x10 ⁻⁷ in/in °F. |
| c. Compressive Strength: ASTM D 696 | 2.3 ksi. |
| d. Room Corner Burn Test: NFPA 286 | Pass |
| e. Flame Spread Index: ASTM E 84 | 0 |
| f. Smoke Development Index: ASTM E 84 | 50 |
| g. Weight (Panel and acoustic baffles) | 4.2 psf |
| h. Weight (Panel only) | 3 psf |

SELECT DESIRED DESIGN AND FELT COLOR FROM MODULAR ARTS WEBSITE www.modulararts.com; CLICK ON "AuralScapes® Acoustic PANELS" TO VIEW DESIGNS NOTED BELOW.

(3) Design: _____ ©; [horizontal] [vertical] orientation.

(4) Baffle felt color: _____

Note: Modular Arts designs are protected by registered copyrights and may not be duplicated. Attempts to copy or closely mimic Modular Arts original designs will be considered a violation of intellectual property rights and will be duly pursued.

B. Installation Kit: Installation instructions.

MODIFY FOLLOWING PARAGRAPHS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS IF SUBSTRATE IS OTHER THAN GYPSUM BOARD.

A. Anchors: 30 lb. self-drilling, drywall anchor.

B. Screws: Coarse thread, drywall type, length as required by panel design and in accordance with Manufacturer's Installation Instructions.

2.3. SOURCE QUALITY CONTROL

A. Fabrication Tolerances:

1. Dimensions, length and width: $\pm 1/16$ inch.
2. Thickness: $\pm 1/16$ inch.
3. Weight: $\pm 1/2$ lb.

3. EXECUTION

3.1. EXAMINATION

A. Examine substrates upon which profile paneling will be installed.

1. Verify that substrate is a material listed as an acceptable substrate by the profile paneling manufacturer.

B. Verify that permanent project lighting is in place and operational prior to start of seam finishing.

C. Coordinate with responsible entity to correct unsatisfactory conditions.

D. Commencement of work by installer is acceptance of substrate conditions.

3.2. INSTALLATION

MODULAR ARTS INSTALLATION INSTRUCTIONS COVER NORMAL INSTALLATION CONDITIONS. UNUSUAL CONDITIONS MAY REQUIRE ADDITIONAL INFORMATION IN THIS ARTICLE.

A. Install profile paneling in accordance with Manufacturer's Installation Instructions.

3.3. CLEANING

A. Waste Management: Refer to Section 01 74 00 Cleaning and Waste Management.

3.4. PROTECTION

A. Protect finished work from damage during remainder of construction period.

END OF SECTION¹

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- ¹ This specification was prepared specifically for Modular Arts, Inc. by ASC Specification Consultants. Comments or suggestions for improvement should be addressed to: Modular Arts, Inc., 2400 NW 80th St. #106, Seattle, WA 98117; Tel 206.788.4210; e-mail: info@modularArts.com

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