SECTION 07 46 43

EXTERIOR COMPOSITE SIDING AND ACCESSORIES

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\*\* NOTE TO SPECIFIER \*\* Alside; siding and accessories, vinyl windows and patio doors,
This section is based on the products of Alside, which is located at:3773 State Rd.Cuyahoga Falls, OH 44223Toll Free Tel: 800-922-6009Fax: 330-922-5387Email: [request info (FFarmer@alside.com)](https://arcat.com/rfi?action=email&company=Alside&message=RE%253A%2520Spec%2520Question%2520(07460aws)%253A%2520&coid=49250&spec=07460aws&rep=&fax=330-922-5387)
Web: <https://www.alside.com>
 [ [Click Here](https://arcat.com/company/alside-49250) ] for additional information.
Alside represents over six decades of inspired innovation. Founded in 1947, Alside is a leading manufacturer of siding and accessories, vinyl windows and patio doors, as well as fencing and railing products for the residential and commercial remodeling and new construction markets.
With headquarters in Cuyahoga Falls, Ohio, Alside has over 3000 employees in its seven manufacturing facilities Alside products are distributed to licensed professional remodeling contractors and home builders through our network of over 100 Alside Supply Centers and also through select independent distributors across the country. A division of Associated Materials (AM), Alside is a recognized leader in the construction industry and is a charter member of the Vinyl Siding Institute, the American Association of Architects, the National Association of Home Builders, and the National Association of the Remodeling Industry.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Cladding system panels.
		2. Accessory components.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
		2. Section 06 16 36 - Wood Panel Product Sheathing.
		3. Section 07 21 19 - Foamed-In-Place Insulation.
		4. Section 07 27 19 - Plastic Sheet Air Barriers .
		5. Section 07 60 00 - Flashing and Sheet Metal.
		6. Section 07 90 00 - Joint Protection.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM D635 - Standard Test Methods for Rage of Burning and/or Extent and Time of Burning of Plastics in Horizontal Position.
			2. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			3. ASTM E119 - Standard Test Method for Fire Tests of Building Construction and Materials.
			4. ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
			5. ASTM D696 - Standard Test Method for Coefficient of Linear Dimension Changes of Plastics.
			6. ASTM D4226 - Standard Test Methods for Impact Resistance or Rigid Poly (Vinyl Chloride) (PVC) Building Products.
			7. ASTM D3679 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding.
			8. ASTM C1363 - Standard Test Method for Thermal Performance of Building Material and Envelope Assemblies by Means of a Hot Box Apparatus.
			9. ASTM G-155 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials.
			10. ASTM D5206 - Standard Test Methods for Wind load Resistance.
			11. ASTM D3345 - Standard Test Method for Laboratory Evaluation of Solid Wood for Resistance to Termites.
		2. National Fire Protection Association (NFPA):
			1. NFPA 268 - Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern, and color.
		2. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Alside, which is located at:3773 State Rd.Cuyahoga Falls, OH 44223Toll Free Tel: 800-922-6009Fax: 330-922-5387Email: [request info (FFarmer@alside.com)](https://arcat.com/rfi?action=email&company=Alside&message=RE%253A%2520Spec%2520Question%2520(07460aws)%253A%2520&coid=49250&spec=07460aws&rep=&fax=330-922-5387);Web: <https://www.alside.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs: coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* The Look of Real Wood. The Performance of Something Better. ASCEND Composite Cladding by Alside, a first-of-its-kind solution that combines beauty, performance, and easy installation for the best overall value on the market vs fiber cement or engineered wood. With tall exposures and the deeply grained look of real wood, ASCEND is available in 20 colors and captures the high-end aesthetics for today's design demand. ASCEND requires minimal maintenance, day after day, year after year & enables the ability to deliver the look developers & residents want with enhanced, long-term durability they can rely on at an attractive total installed and lifetime cost.

ASCEND is a Glass Reinforced Polymer Composite; a siding of its own class (non-vinyl / non-cementitious) that is geared to be a cost alternative to fiber cement; with giving you a more revealing wood look and maintenance free solution.

* 1. CLADDING SYSTEM PANELS
		1. Basis or Design: ASCEND Composite Cladding Systems as manufactured by Alside.
			1. Design Requirements: Cladding.
				1. Glass fiber reinforced polymer and graphite infused polystyrene foam.
				2. Reinforced Nail Hem: Increases wind load up to 180 mph (289.7 kph).
				3. Forgiving Hang: Conceals minor wall imperfections.
				4. Stack Locking of cladding planks.
				5. Exposed Surface: Cedar mill grain embossing on flat face.
				6. Bottom Edge: Sharp butting to better replicate the look of real wood.
				7. No sealing, touch-up painting, joint flashing or caulking required.
			2. Fire Properties:
				1. May be used in ASTM E119 fire resistance rated assemblies.
				2. Approved for use as specified in section 1406 of the International Building Code and as tested to NFPA 268.
				3. Average Burn Time, ASTM D635: Pass. No self-sustained burn.
				4. Average Extent of Burn, ASTM D635: Pass. No self-sustained burn.
				5. Flame Spread Index per ASTM E84: Less than or equal to 25.
				6. Smoke Developed Index per ASTM E84: Less than or equal to 450.
				7. Ignition Temperature per ASTM D1929: No self-ignition. No flaming. No smoldering at less than 770 degrees F (410 degrees C).
			3. Typical ASCEND Cladding Properties:
				1. Camber per ASTM D3679: Less than 1/8 inch (3 mm).
				2. Heat Shrinkage per ASTM D3679: 0.2 percent.
				3. Impact Resistance per ASTM D4226, Procedure A: 57 inch-lbs (6.44 N-m).
				4. Weatherability per ASTM G155: No surface or structural defects such as peeling, cracking, or chipping.
				5. Pigmentation: Spectrophotometer controlled, not exceeding ASTM requirement of DE 1.5.

Color: As determined by the Architect.

Color: Glacier White. SW Color ID: GBP0003.

Color: Flagship Brown. SW Color ID: GBP0009.

Color: Ageless Slate. SW Color ID: GBP0001.

Color: Midnight Blue. SW Color ID: GBP0012.

Color: Almond. SW Color ID: GBP0002.

Color: Rustic Timber. SW Color ID: GBP0016.

Color: Charcoal Smoke. SW Color ID: GBP0006.

Color: Riviera Dusk. SW Color ID: GBP0020.

Color: Monterey Sand. SW Color ID: GBP0013.

Color: Cape Cod Gray. SW Color ID: GBP0004.

Color: Cast Iron. SW Color ID: GBP0005.

Color: Mountain Fern. SW Color ID: GBP0014.

Color: Pebble. SW Color ID: GBP0015.

Color: Sterling Gray. SW Color ID: GBP0017.

Color: Laguna Blue. SW Color ID: GBP0011.

Color: Deep Moss. SW Color ID: GBP0007.

Color: Canyon Drift. SW Color ID: GBP0003.

Color: Storm. SW Color ID: GBP0018.

Color: Harbor Blue. SW Color ID: GBP0010.

Color: Fired Brick. SW Color ID: GBP0008.

* + - * 1. Coefficient of Linear Expansion per ASTM D696: 00002.3 inch / inch F.
				2. Gloss: Garner Gloss meter controlled. Uniform low gloss maintained with a 75 degree gloss meter.
				3. Surface Distortion per ASTM D3679: Exceeds 165 degrees F (40.5 degrees C).
				4. Thermal Resistance R-value per ASTM C1363-11: 2.0.
				5. Wind Load Resistance per ASTM D5206-13: 53 psf at 180 mph (2.537 kPa at 289.7 kph. Exposure B, 30 ft (9.144 m). mean roof height, Safety Factor 1.5, PEF 0.5.

Nails: 16 inch (406 mm) on center, 1-1/4 inch (32 mm) penetration.

* + - * 1. Termite Resistance per ASTM D3345: Complete resistance to termite.
			1. Interlock: Post-form style Stack-lock with positive interlock; both ends of planks factory cut and notched for overlap.
			2. Nail Slots: Elongated 1 inch (25 mm) slots spaced approximately 1/2 inch (13 mm) apart in nailing hem to allow for expansion and contraction.
			3. Horizontal Cladding Dimensions: ASCEND 7 inches (178 mm) clapboard planks.
				1. Panel Thickness: 3/4 inch (19 mm).
				2. Panel Projection: 3/4 inch (19 mm).
				3. Panel Length: 12 ft - 3 inches (3.734 m).
				4. Width: 8.25 inch (210 mm).
				5. Exposure: 7 inch (178 mm).
				6. Butt Height: 3/8 inch (9.5 mm).
				7. Weight: 0.31 lbs per ft. (0.46 kg per m).
				8. Finish: Low gloss, cedar grain.
				9. Interlock: Stacklock.
	1. CLADDING SYSTEM ACCESSORY COMPONENTS
		1. Steel Starter Strip: 2.5 inch (64 mm). G90 Galvanized steel. Length: 10 ft (3.048 m).
		2. Finish Trim: Length: 12 ft 6 inches (3.810 m).
			1. Vinyl Accessories:
				1. Outside Corner Post:

Face: 4 inch (102 mm).

Receiving Channel: 3/4 inch (19 mm).

Length: 10 ft (3.048 m).

Finish: Wood grain.

\*\* NOTE TO SPECIFIER \*\* Same colors as cladding. Delete color options not required.

Color: \_\_\_\_\_\_\_\_.

Color: Match cladding:

Color: As determined by the Architect. From manufacturer's standard range.

* + - * 1. Inside Corner Post:

Receiving Channel: 3/4 inch (19 mm).

Length: 10 ft (3.048 m).

Finish: Matte.

\*\* NOTE TO SPECIFIER \*\* Same colors as cladding. Delete color options not required.

Color: \_\_\_\_\_\_\_\_.

Color: Match cladding:

Color: As determined by the Architect. From manufacturer's standard range.

J-Channel:

Face: 1 inch (25 mm).

Receiving Channel: 3/4 inch (19 mm).

Length: 12 ft 6 inch (3.81 m).

Finish: Matte.

\*\* NOTE TO SPECIFIER \*\* Same colors as cladding. Delete color options not required.

Color: \_\_\_\_\_\_\_\_.

Color: Match cladding:

Color: As determined by the Architect. From manufacturer's standard range.

Wide Face J-Channel:

Face: 2.5 inch (64 mm).

Receiving Channel: 3/4 inch (19 mm).

Length: 12 ft 6 inch (3.81 m).

Finish: Matte. Color: Glacial White.

* + - * 1. Aluminum Trim Coil:

Poly Aluminum Trim Coil (WxL): 24 inches (610 mm) x 50 ft (15.240 m).

Thickness:0.019 inches (0.48 mm).

\*\* NOTE TO SPECIFIER \*\* Same colors as cladding. Delete color options not required.

Color: \_\_\_\_\_\_\_\_.

Color: Match cladding.

Color: As determined by the Architect. From manufacturer's standard range.

PVC Aluminum Trim Coil: 24 inches (610 mm) x 50 ft (15.24 m).

Thickness:0.019 inches (0.48 mm).

\*\* NOTE TO SPECIFIER \*\* Same colors as cladding. Delete color options not required.

Color: \_\_\_\_\_\_\_\_.

Color: Match cladding:

Color: As determined by the Architect. From manufacturer's standard range.

1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION