SECTION 06 60 00

PLASTIC FABRICATIONS FOR SIDING

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\*\* NOTE TO SPECIFIER \*\* VSA Enterprises Inc.; exterior wall accessories.
This section is based on the products of VSA Enterprises Inc., which is located at:
306 - 20701 Langley Bypass
Langley, BC, Canada V3A5E8
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Email: [request info (nathan@vsaent.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=VSA+Enterprises+Inc.&coid=49946&rep=&fax=604-534-9754&message=RE:%20Spec%20Question%20(06600vsa):%20%20&mf=)
Web: [www.vsaent.com](http://www.vsaent.com)
 [ [Click Here](http://www.arcat.com/arcatcos/cos49/arc49946.html) ] for additional information.
VSA Enterprises Inc., and its predecessor Quicksilver Building Products (QBP), was founded in 1987. Our focus was and remains designing and producing innovative construction materials made of durable, modern plastic.
Addressing the need for light and plug mounting plates, installed originally with vinyl siding, these products have since become a standard installation practice in North America. This VSA product line includes a full line of vents to suit nearly every application for the exterior of the modern residential home.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Vinyl trim accessories.
		2. Vinyl handrail cover.
	1. RELATED SECTIONS

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

* + 1. Section 07 19 26 - Stearate Water Repellents.
		2. Section 07 19 28 - Mold Resistant Sealer\*.
		3. Section 07 46 33 - Vinyl Siding.
		4. Section 09 25 23 - Lime Based Plastering.
	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 D2589 - Standard Test Methods for Determining the IZOD Pendulum Impact Resistance of Plastics.
		2. ASTM D638-275 - Standard Test Method for Tensile Properties of Plastics.
		3. ASTM D648-06 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in Edgewise Position.
		4. ASTM D1505-09 - Standard Specification for Specific Gravity.
		5. CAN/CGSB 41.24-95 - Ridge Vinyl Siding, Soffits and Fascia.
		6. Vinyl Siding Institute (VSI) Certification Program for vinyl siding products.
		7. OAB Electrical certified to CSA C22.2 NO. 18.2 conforms to UL514C.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Submit vinyl trim accessories product literature indicating product range / profiles. Submit specifications, installations and independent test data verifying compliance with Project requirements. Submit the following:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
		2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project 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: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Provide a mock-up demonstration of a vinyl trim accessory unit for review prior to ordering materials.
			2. Provide a mock-up of a vinyl trim accessory unit within wall construction. Installation mock-up shall include substrate / sheathing, sheathing paper or membrane, rain-screen furring (where applicable) and wall finish for review of assembly. If acceptable assembly shall serve as a standard for all other such work and may be incorporated as part of the work.
			3. Finish areas designated by Architect.
			4. Do not proceed with remaining work until workmanship is approved by Architect.
			5. Refinish mock-up area as required to produce acceptable work.
	1. PRE-INSTALLATION MEETINGS
		1. Convene minimum two weeks prior to starting work of this section.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
		2. Handling: Handle materials to avoid damage.
	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. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	5. WARRANTY
		1. Provide vinyl trim accessory manufacturer's written warranty from date of Substantial Performance that accessories will resist denting and maintain a uniform color and be free of any visual surface or structural changes such as cracking, flaking, chipping, peeling or blistering caused by manufacturing defects.

\*\* NOTE TO SPECIFIER \*\* Delete term not required.

* + - 1. Term: Lifetime material warranty.
			2. Term: Forty year prorated material warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: VSA Enterprises Inc., which is located at: 306 - 20701 Langley Bypass; Langley, BC, Canada V3A5E8; Toll Free Tel: 877-830-1609; Tel: 604-534-9752; Fax: 604-534-9754; Email: [request info (nathan@vsaent.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=VSA+Enterprises+Inc.&coid=49946&rep=&fax=604-534-9754&message=RE:%20Spec%20Question%20(06600vsa):%20%20&mf=); Web: [www.vsaent.com](http://www.vsaent.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 \*\* Delete if not required.

* 1. VINYL TRIM ACCESSORIES
		1. Performance:
			1. Vinyl trim accessories / cover plates shall be designed to produce a watertight and self-flashing installation that is not dependent on sheathing paper / membrane or sealants for primary exclusion or water.
			2. Vinyl trim accessories shall meet the following minimum requirements:
				1. Resin: P.P. Copolymer resin to ASTM D1784: with cell classification of 13334 or 14334.
				2. Process: PP copolymer injection-molding grade, additives, neutralizer, heat stabilizer and processing stabilizer meeting ASTM D3679 requirements.
				3. Minimum thickness: 0.042 inch +/- 0.001 inch (1.1 mm+/-0.0254 mm).
				4. Minimum (IZOD) impact strength to ASTM D256: 7.90 ft lb/in.
				5. Minimum tensile strength to ASTM D638: 6,600 psi (45,505 kPa).
				6. Minimum modulus of elasticity to ASTM D638: 390,000 psi (2,689,000 kPa).
				7. Deflection temperature under load to ASTM D648: 161 degrees F (72 degrees C).
				8. Coefficient of expansion: 3.2 x 10-5 in/in F.
		2. Vinyl Trim Accessories:
			1. Third Wave Series, two piece vinyl trim assemblies complete with continuous nailing flange, reversible trim ring (to accommodate wall finish thickness variations, 5/8 inch to 1-1/4 inches (1.59 cm to 3.18 cm), knurled wall channels and lower drip cap for self-flashing, water resistance, in colors to match and/or compliment wall finish as selected by Architect from manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* Standard, Flush Plug Electrical Plate. Overall Dimensions: 5-3/4 inches x 7-3/8 inches (146 mm x 187 mm). Base Dimensions: 4 inches x 5-3/4 inches (102 mm x 146 mm).

* + - 1. Product: Flush Plug. Part 21158-01.
				1. Part 21158-01 White.
				2. Part 21158-02 Black.
				3. Part 21158-25 Tumbleweed.
				4. Part 21158-28 Wicker.
				5. Part 21158-29 Khaki.
				6. Part 21158-54 Clay.
				7. Part 21158-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Renovation friendly protection from the elements. Overall Dimensions: 5-3/4 inches x 7-3/8 inches (146 mm x 187 mm). Base Dimensions: 4 inches x 5-3/4 inches (102 mm x 146 mm).

* + - 1. Product: Recessed Plug. Part 21258-01.
				1. Part 21258-01 White.
				2. Part 21258-02 Black.
				3. Part 21258-25 Tumbleweed.
				4. Part 21258-28 Wicker.
				5. Part 21258-29 Khaki.
				6. Part 21258-54 Clay.
				7. Part 21258-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Ideal for use as a railing mount. Installation details available. Overall Dimensions: 5-3/4 inches x 7-3/8 inches (146 mm x 187 mm). Base Dimensions: 4 inches x 5-3/4 inches (102 mm x 146 mm).

* + - 1. Product: 3x5 Mount. Part 21358-01.
				1. Part 21358-01 White.
				2. Part 21358-02 Black.

\*\* NOTE TO SPECIFIER \*\* Features removable inserts to fit over and under the water system or any protrusion. 5-3/4 inches x 7-3/8 inches (146 mm x 187 mm). Base Dimensions: 4 inches x 5-3/4 inches (102 mm x 146 mm).

* + - 1. Product: Recessed Split Water. Part 21758-01.
				1. Part 21758-01 White.
				2. Part 21758-02 Black.
				3. Part 21758-25 Tumbleweed.
				4. Part 21758-28 Wicker.
				5. Part 21758-29 Khaki.
				6. Part 21758-54 Clay.
				7. Part 21758-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Features a 4" opening for electrical mount. Overall Dimensions: 7-1/2 inches x 8-1/2 inches (191 mm x 216 mm). Base Dimensions: 5-1/2 inches x 6-1/2 inches (140 mm x 165 mm).

* + - 1. Product: Light Mount. Part 21458-01.
				1. Part 21458-01 White.
				2. Part 21458-02 Black.
				3. Part 21458-25 Tumbleweed.
				4. Part 21458-28 Wicker.
				5. Part 21458-29 Khaki.
				6. Part 21458-54 Clay.
				7. Part 21458-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Features 1/4 inch (6 mm) center opening. Available in white only. Overall Dimensions: 7-1/2 inches x 8-1/2 inches (191 mm x 216 mm). Base Dimensions: 5-1/2 inches x 6-1/2 inches (140 mm x 165 mm).

* + - 1. Product: Surface Mount. Part 21558-01 - White.

\*\* NOTE TO SPECIFIER \*\* Available in white only. Ideal for use as a railing mount. Installation details available. Overall Dimensions: 7-1/2 inches x 8-1/2 inches (191 mm x 216 mm). Base Dimensions: 5-1/2 inches x 6-1/2 inches (140 mm x 165 mm).

* + - 1. Product: 5x6 Mount. Part 21658-01 - White.

\*\* NOTE TO SPECIFIER \*\* Overall Dimensions: 5-3/4 inches x 7-3/8 inches (146 mm x 187 mm). Base Dimensions: 4 inches x 5-3/4 inches (102 mm x 146 mm). ETL tested to CSA/UL for wet locations. Electrical base CSA/UL equivalent for 18 cubic inches (294 cubic centimeters).

* + - 1. Product: OAB Plug (CSA/UL). Part 26158-01 (ETL C 3185031 US).
				1. Part 26158-01 White.
				2. Part 26158-02 Black.
				3. Part 26158-25 Tumbleweed.
				4. Part 26158-28 Wicker.
				5. Part 26158-29 Khaki.
				6. Part 26158-54 Clay.
				7. Part 26158-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Overall Dimensions: 7-1/2 inches x 8-1/2 inches (191 mm x 216 mm). Base Dimensions: 5-1/2 inches x 6-1/2 inches (140 mm x 165 mm). ETL tested to CSA/UL for wet locations. Electrical base CSA/UL equivalent for 18 cubic inches (294 cubic centimeters).

* + - 1. Product: OAB Light (CSA/UL). Part 26458-01 (ETL C 3185031 US).
				1. Part 26458-01 White.
				2. Part 26458-02 Black.
				3. Part 26458-25 Tumbleweed.
				4. Part 26458-28 Wicker.
				5. Part 26458-29 Khaki.
				6. Part 26458-54 Clay.
				7. Part 26458-55 Storm.

\*\* NOTE TO SPECIFIER \*\* Original Series by VSA Enterprises Inc. Delete if not required.

* + 1. Exterior Mounting Blocks:
			1. 4 inches (102 mm) Round Soffit Vent (4SV). Vent Free Area: 6.38 sq. in. (4116 sq. mm). Part 601 White, Part 606 Brown.
				1. Part 604S Optional Screen.
			2. Screened Plastic Mini Louvers (PML):
				1. 1 inch (25 mm) net free area 0.20 sq in. (129 sq. mm). Part PML101 White/104 Dk Brown.
				2. 1.5 inches (38 mm) net free area 0.80 sq in. (516 sq. mm). Part PML151 White/154 Dk Brown.
				3. 2 inches (51 mm) net free area 1.50 sq in. (968 sq. mm). Part PML201 White/204 Dk Brown.
				4. 2.5 inches (64 mm) net free area 1.75 sq in. (1129 sq. mm). Part PML251 White/254 Dk Brown.
				5. 3 inches (76 mm) net free area 2.76 sq in. (1781 sq. mm). Part PML301 White/304 Dk Brown.
				6. 4 inches (102 mm) net free area 4.80 sq in. (3097 sq. mm). Part PML401 White/404 Dk Brown.
				7. 5 inches (127 mm) net free area 6.67 sq in. (4303 sq. mm). Part PML501 White/504 Dk Brown.
				8. 6 inches (152 mm) net free area 9.21 sq in. (5942 sq. mm). Part PML601 White/604 Dk Brown.
			3. 6 inches (152 mm) Wall Vent (6WV). Part 301 White (vent only). 6 inches (152 mm) wall vent with attached 6 inches (152 mm) adaptor collar make-up air - fresh air intake vent designed for gas furnace, hot water tank, fireplace, heaters and air conditioning.

\*\* NOTE TO SPECIFIER \*\* ABS - Grey - Solvent Weld, Fits over 1-1/2 inches (38 mm) or into 2 inches (51 mm) Hub Connection.

* + - 1. Bell Trap Drain, Square 6 inches (152 mm). Part 1504-03 Grey Base & Lid.
				1. Bell Trap Drain Lid. Part 1504L-03 Lid Only.

\*\* NOTE TO SPECIFIER \*\* Multiple siding styles including bevel of: Double 5, Double 4.5, Double 4 & Triple 3 PLUS Dutch Lap.

* + - 1. Surface Series Block "Add A Light" Double 5 inches (127 mm) Bevel. Part 641060-00.
			2. 4 inches (102 mm) Dryer Vent (4DV). Part 1201 White (Vent face only).
			3. 3 inches (76 mm) Dryer Vent (3DV). Part 1301 White (Vent face only).
			4. Meter Mount Plate. Part 45080-01 White. Outside dimensions: 17-5/8 inches x 15-7/8 inches (448 mm x 403 mm).

\*\* NOTE TO SPECIFIER \*\* Three part Electrical Plug / Water Pipe mold pre-trimmed to 5/8 inch (16 mm), 3/4 inch (19 mm), 1 inch (25 mm) & 1-1/2 inches (38 mm).

* + - 1. Split Recessed Plug Water Plate (SRPW). Part 5001 White. Split face applications for existing pipe penetrations.
			2. 7 inches x 7 inches (178 mm x 178 mm) Utility Plate (ULP). Part 201F White.
			3. Light Plate (LBP). Part 201 White. Standard 4 inches (102 mm) round opening.
			4. Plug Plate (PBP). Part 101 White.

\*\* NOTE TO SPECIFIER \*\* Ideal for round wall penetrations: water lines, gas pipes, plumbing drains and electrical fittings. Available with center holes, 1/2 inch (13 mm), 5/8 inch (16 mm), 3/4 inch (19 mm), 1 inch (25 mm), 1-1/4 inches (32 mm), 1-1/2 inches (38 mm) and 2-1/2 inches (64 mm).

* + - 1. 4 inches x 6 inches (102 mm x 152 mm) Utility Plate (UPP). Part 101F White. 3-5/8 inches (92 mm) round opening, (O.D. 3 inches (76 mm) ABS Pipe).
		1. Rainscreen Spacer: Built-in VSA Rainscreen Spacer.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. VINYL HANDRAIL COVER

\*\* NOTE TO SPECIFIER \*\* Delete handrail size not required.

* + 1. 2 x 4 Handrail Application:

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - 1. Cover: 10 feet (3.048 m) in Sandalwood. Part 12402.
			2. Cover: 10 feet (3.048 m) in White. Part 12401.
			3. End Cap: Color to match cover. Part 10241/10242.
			4. Sleeve: Color to match cover. Part 9241/9242.
			5. Corner Cap: Color to match cover. Part 8241/8242.
		1. 2 x 4 Handrail Application:

\*\* NOTE TO SPECIFIER \*\* Delete color not required.

* + - 1. Cover: 10 feet (3.048 m) in Sandalwood. Part 12602.
			2. Cover: 10 feet (3.048 m) in White. Part 12601.
			3. End Cap: Color to match cover. Part 10261/10262.
			4. Sleeve: Color to match cover. Part 9261/9262.
			5. Corner Cap: Color to match cover. Part 8261/8262.
			6. Plant Holder: Color to match cover. Part 6261/6262.
		1. Accessories:
			1. Solvent: Solvent cement. Part 700.
1. EXECUTION
	1. EXAMINATION
		1. Verify all locations for trim accessories installation prior to installation to ensure substrate and conditions are acceptable for trim installation.
		2. Do not begin installation until substrates have been properly prepared.
		3. If substrate preparation is the responsibility of another installer, notify Architect 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

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Vinyl Trim Accessories Installation:
			1. Ensure that substrate surfaces are sound and that sheathing paper or membrane has been installed / lapped correctly and is sealed to substrate using membrane tape or self-adhering membrane flashing.
			2. Install vinyl trim accessories to all openings and penetrations through wall finish system in strict accordance with manufacturers written installation requirements.
			3. Fasten vinyl trim accessories using non-corrosive fasteners and at locations recommended by trim manufacturer. Do not fasten to tightly and allow for expansion and contraction due to temperature changes.
			4. Install vinyl trim accessories over two layers of 30 pound sheathing paper or membrane, both side's install peel and stick adhesive tape, to the knurled side channel and secondly over the head covering the side tape.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. OAB - Over Air Barrier, Electrical Light and Plug Units Installation:
			1. Drill 3/4 inch (19 mm) hole through exterior sheeting and air barrier and extend electrical wire through the air barrier and seal with sealant. Insert the wire into the cable clamps provided in the electrical box. Level the mounting block, over the air barrier and fasten to the wall using min. 6 - #8 x 1.5 inches (38 mm) wood screws into nailing flange. Install self-adhesive membrane over both sides of the nailing flange to the knurled side channel and over the head covering the side tape. Install exterior wall finish. Install reversible trim ring to suitable depth and finish electrical fixture to code.
			2. Where Rain Screen application is required, use VSA's Rainscreen Spacer which integrates with the OAB mount or strap perimeter of the nailing flange with furring strips, over the air barrier. Fasten OAB System to furring strips and seal back to the air barrier with self-adhesive membrane both sides over the nailing flange and back over the air barrier and across the top covering the two vertical side membrane.
			3. OAB System will be an air-tight and water-tight seal for exterior electrical wall mounted light and outlet plugs.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Vinyl Handrail Cover Installation:
			1. Preparation
				1. Check top rails for dry rot, secure nailing and straightness.
				2. Dry Rot: When badly rotted railing exists, unsafe conditions will not be corrected by installing vinyl handrail cover. Replace rotted section first.
				3. Secure Nailing: check to see that all nails are set and solid.
				4. Straightness: snap a chalk line, mark end to end and check for unevenness. If over 1/2 inch (13 mm) out of line, cut of excess.
			2. Installation of Handrail Cover:
				1. Slip outside cover over wood railing. Pull inside edge over wood railing.
			3. Installation of Corner Cap:
				1. Cut 45 degree angles on 2x4 or 2x6 VHC and install, leaving a minimum of 1/4 inch (6mm) from outside corner for expansion.
			4. Expansion:
				1. When joining two full lengths, allow minimum 1/2 inch (13 mm) for expansion.
				2. The vinyl handrail cover system is designed with a friction fit over wood railing, where no fasteners are required.
			5. Installation of End Caps and Expansion Sleeves:
				1. Insert end cap into railing, making sure of a proper fit before gluing.
				2. Expansion sleeve is required when joining two pieces of vinyl handrail cover. Apply a bead of silicone on either side of the open joint of the handrail cover.
			6. Installation of Plant Sleeve:
				1. 2x6 planter sleeves are designed to provide a level surface on which to place rectangular planter boxes and can be clipped on anywhere. Two are needed per planter box.
	1. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION