SECTION 07 46 24

WOOD SHINGLE AND SHAKE SIDING

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\*\* NOTE TO SPECIFIER \*\* Cedar Shake and Shingle Bureau; cedar shingle and shake siding.
This section is based on the products manufactured by members of the Cedar Shake and Shingle Bureau, which is located at:
P.O. Box 1178
Sumas, WA 98295
Phone: 604-820-7700
Fax: 604-820-0266
Email: Info@cedarbureau.org
Web: www.cedarbureau.org
[Click Here] for additional information.
The Cedar Shake and Shingle Bureau is a non-profit organization that promotes the use of Certi-label cedar roofing and sidewall products.
Each year the Cedar Shake and Shingle Bureau's staff answer thousands of technical questions and product selection queries. Offering informed Certi-Wood advice the responsibility for educating the public and building code officials falls on the CSSB. Owing to knowledgeable staff, the Cedar Shake & Shingle Bureau has earned the distinction as the recognized industry authority. Our proud history, quality reputation and dedicated CSSB members, Directors, District Managers and staff form the Certi-Wood team that showcases trusted Certi-label products to the world. Members are united by their common interest to promote quality products and services.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Certi-grade cedar Shingle and Certi-Split Shake Siding of the following types:
			1. Standard Shingles. (Certigrade)
			2. Handsplit Shakes. (Certi-Split)
			3. Tapersawn Shakes. (Certi-Sawn)
			4. Tapersplit Shakes. (Certi-Split)
			5. Straight-Split Shakes. (Certi-Split)
			6. Rebutted and Rejointed Shingles. (Certigrade)
			7. Machine Grooved Shingles. (Certigroove)
			8. Fancy-Butt Shingles. (Certi-Cut)
			9. Pressure-Impregnated, Preservative Treated Shingles and Shakes. (Certi-Last)
			10. Pressure-Impregnated, Fire-Retardant Treated Shingles and Shakes. (Certi-Guard)
	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 07 27 00 - Air Barriers.
		3. Section 07 31 13 - Asphalt Shingles.
		4. Section 07 62 00 - Sheet Metal Flashing and Trim.
	1. REFERENCES

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

* + 1. Cedar Shake and Shingle Bureau (CSSB):
			1. Registered Trademarks: The following terms are registered trademarks of the Cedar Shake and Shingle Bureau (CSSB) and are only to be used in the representation and specification of products manufactured by members of the CSSB.
				1. Certi-Wood.
				2. Certi-Label.
				3. Certigrade.
				4. Certi-Last.
				5. Certi-Guard.
				6. Certi-Ridge.
				7. Certi-Split..
				8. Certi-Sawn
				9. Blue Label.
			2. CSSB Certi-Label: Cedar shake and shingle grading rules for western red cedar shakes and shingles.
			3. Exterior and Interior Wall Manual.
		2. ASTM Annual Book of Standards (ASTM):
			1. ASTM A153 - Standard Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware.
			2. ASTM A493 - Standard Specification for Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging.
			3. ASTM D226 - Standard Specification for Asphalt-Saturated Organic Felt Type II Used in Roofing and Waterproofing.
			4. ASTM D4869 - Standard Specification for Asphalt-Saturated Organic Felt Type IV Underlayment Used in Steep Slope Roofing.
	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.
		2. Do not install when rain is present.
		3. Do not install Non-permeable insulation or membranes directly under cedar shake and shingles
	4. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturers: Members of the Cedar Shake and Shingle Bureau, which is located at: P.O. Box 1178; Sumas, WA 98295; ASD Phone: 604-820-7700; Fax: 604-820-0266; Email: Info@cedarbureau.org; Web: www.cedarbureau.org.

\*\* 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.
	1. PERFORMANCE REQUIREMENTS
		1. Standards Compliance: CSSB Certi-label products.

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

* 1. STANDARD SHINGLES

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Certigrade Blue Label Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Number 1 Blue Label, 100 percent clear, edge grain heartwood.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required. 5x equals 5 shingles stacked upon each other 16 is length

* + - 1. Length: 16 inch (406 mm). 5X Thickness; 5 Butts: 2 inches (51 mm).
			2. Length: 18 inch (457 mm). Perfection Thickness; 5 Butts: 2-1/4 inches (57 mm).
			3. Length: 24 inch (610 mm). Royal Thickness; 4 Butts: 2 inches (51 mm).
			4. Length x Thickness: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete coursing and exposure options not required.

* + - 1. Single Coursing:
				1. Maximum Exposure: 7 inches (178 mm) on 16 inch (406 mm) 5X.
				2. Maximum Exposure: 8 inches (203 mm) on 18 inch (457 mm) Perfection.
				3. Maximum Exposure: 10-1/2 inches (267 mm) on 24 inch (610 mm) Royal.
			2. Double Coursing:
				1. Maximum Exposure: 12 inches (305 mm) on 16 inch (406 mm) 5X.
				2. Maximum Exposure: 14 inches (356 mm) on 18 inch (457 mm) Perfection.
				3. Maximum Exposure: 16 inches (406 mm) on 24 inch (610 mm) Royal.
			3. Exposure: \_\_\_\_\_.
		1. Basis of Design: Certigrade Red Label Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Number 2 Red Label, flat grain and limited sapwood permitted.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Length: 16 inch (406 mm). 5X Thickness; 5 Butts: 2 inches (51 mm).
			2. Length: 18 inch (457 mm). Perfection Thickness; 5 Butts: 2-1/4 inches (57 mm).
			3. Length: 24 inch (610 mm). Royal Thickness; 4 Butts: 2 inches (51 mm).
			4. Length x Thickness: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete coursing and exposure options not required.

* + - 1. Single Coursing:
				1. Maximum Exposure: 6 inches (152 mm) on 16 inch (406 mm) 5X.
				2. Maximum Exposure: 7 inches (178 mm) on 18 inch (457 mm) Perfection.
				3. Maximum Exposure: 9 inches (229 mm) on 24 inch (610 mm) Royal.
			2. Double Coursing:
				1. Maximum Exposure on 16 inch (406 mm) on 9 inches (229 mm) 5X.
				2. Maximum Exposure on 18 inch (457 mm) on 9 inches (229 mm) Perfection.
				3. Maximum Exposure on 24 inch (610 mm) on 14 inches (356 mm) Royal.
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* The Black Label shingles may only be used as undercoursing for Blue and red label double coursing. Delete if not required.

* + 1. Basis of Design: Certigrade Black Label Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Number 3 Black Label, utility grade shingles for undercoursing.
		2. Basis of Design: Certigrade Green Label Shingle as manufactured by a member of the Cedar Shake and Shingle Bureau.
			1. Grade Number 4 Undercoursing Green Label for undercoursing only

\*\* NOTE TO SPECIFIER \* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Length: 16 inch (406 mm). 5X Thickness; 5 Butts: 2 inches (51 mm).
			2. Length: 18 inch (457 mm). Perfection Thickness; 5 Butts: 2-1/4 inches (57 mm).
			3. Length: 24 inch (610 mm). Royal Thickness; 4 Butts: 2 inches (51 mm).
			4. Length x Thickness: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
			5. Double Coursing:

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete exposure options not required.

* + - * 1. Maximum Exposure: 9 inches (229 mm) on 16 inch (406 mm) 5X.
				2. Maximum Exposure: 10 inches (254 mm) on 18 inch (457 mm) Perfection.
				3. Maximum Exposure: 14 inches (356 mm) on 24 inch (610 mm) Royal.
			1. Exposure: \_\_\_\_\_.
	1. HANDSPLIT SHAKES
		1. Basis of Design: Certi-Split Handsplit and Resawn Shakes; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Premium Grade, 100 percent edge grain.
			2. Grade: Number 1 Grade, up to 20 percent flat grain allowed in each bundle.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.
			3. Face: Hand split.
			4. Back: Sawn.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Butt Thickness: 3/8 inch (10 mm).
			2. Butt Thickness: 1/2 inch (13 mm).
			3. Butt Thickness: 3/4 inch (19 mm).
			4. Butt Thickness: 1 inch (25 mm).
			5. Butt Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 18 inches (457 mm).
			2. Length: 24 inches (610 mm).
			3. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete coursing, length and exposure options not required.

* + - 1. Single Coursing:
				1. Length: 18 inches (457 mm). Maximum Exposure: 8 inches (203 mm).
				2. Length: 24 inches (610 mm). Maximum Exposure: 10-1/2 inches (267 mm).
			2. Double Coursing:
				1. Length: 18 inches (457 mm). Maximum Exposure: 14 inches (356 mm).
				2. Length: 24 inches (610 mm). Maximum Exposure: 18 inches (457 mm).
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* These shakes are sawn both sides. Premium and Number 1 Grades are the most common. Delete if not required.

* 1. TAPERSAWN SHAKES
		1. Basis of Design: Certi-Sawn Tapersawn Shakes; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Premium Grade, 100 percent edge grain.
			2. Grade: Number 1 Grade, up to 20 percent flat grain allowed in each bundle.
			3. Grade: Number 2 Grade, flat grain and limited sapwood permitted.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.
			3. Face: Sawn.
			4. Back: Sawn.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Butt Thickness: 5/8 inch (16 mm).
			2. Butt Thickness: 3/4 inch (19 mm).
			3. Butt Thickness: 7/8 inch (22 mm).
			4. Butt Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 18 inches (457 mm).
			2. Length: 24 inches (610 mm).
			3. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete coursing, length and exposure options not required.

* + - 1. Single Coursing:
				1. Length: 18 inches (457 mm). Maximum Exposure: 8 inches (203 mm).
				2. Length: 24 inches (610 mm). Maximum Exposure: 10-1/2 inches (267 mm).
			2. Double Coursing:
				1. Length: 18 inches (457 mm). Maximum Exposure: 16 inches (406 mm).
				2. Length: 24 inches (610 mm). Maximum Exposure: 18 inches (457 mm).
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Produced by hand, using a sharp bladed steel froe and a mallet. The natural shingle-like taper is achieved by reversing the block, end-for-end, with each split. Delete if not required.

* 1. TAPERSPLIT SHAKES
		1. Basis of Design: Certi-Split Tapersplit Shakes; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Premium Grade, 100 percent edge grain.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.
			3. Face: Hand split.
			4. Back: Hand split.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Butt Thickness: 3/8 inch (10 mm).
			2. Butt Thickness: 1/2 inch (13 mm).
			3. Butt Thickness: 3/4 inch (19 mm).
			4. Butt Thickness: 1 inch (25 mm).
			5. Butt Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 24 inches (610 mm).
			2. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete exposure options not required.

* + - 1. Single Coursing Maximum Exposure: 10-1/2 inches (267 mm).
			2. Double Coursing Maximum Exposure: 18 inches (457 mm).
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Produced by hand, using a sharp bladed steel froe and a mallet. The natural shingle-like taper is achieved by reversing the block, end-for-end, with each split. Delete if not required.

* 1. STRAIGHT-SPLIT SHAKES
		1. Basis of Design: Certi-Split Straight-Split Shakes; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Premium Grade, 100 percent edge grain.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.
			3. Face: Hand split.
			4. Back: Hand split.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - 1. Thickness: 3/8 inch (10 mm).
			2. Thickness: 1/2 inch (13 mm).
			3. Thickness: 3/4 inch (19 mm).
			4. Thickness: 1 inch (25 mm).
			5. Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 18 inches (457 mm).
			2. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete exposure options not required.

* + - 1. Single Coursing Maximum Exposure: 8 inches (203 mm).
			2. Double Coursing Maximum Exposure: 16 inches (406 mm).
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Also known as R&R products, these materials have the same specifications as Number 1 and Number 2 Certigrade shingles, but they are machine re-trimmed for parallel edges and with smooth butts sawn at right angles where a uniform appearance is desired. They are primarily used for sidewall applications. Rebutted & rejointed shingles are also available with a smooth sanded face, with the length of the sanded face at a length greater than the maximum exposure. Delete if not required.

* 1. REBUTTED AND REJOINTED SHINGLES
		1. Basis of Design: Certigrade Rebutted and Rejointed Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Number 1, 100 percent clear, edge grain heartwood.
			2. Grade: Number 2, flat grain and limited sapwood permitted.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete face option not required.

* + - 1. Face: Unsanded.
			2. Face: Sanded smooth.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 16 inches (406 mm).
			2. Length: 18 inches (457 mm).
			3. Length: 24 inches (610 mm).
			4. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete coursing and exposure options not required.

* + - 1. Single Coursing: No. 1 Grade.
				1. Length: 16 inches (406 mm). Maximum Exposure: 7 inches (178 mm).
				2. Length: 18 inches (457 mm). Maximum Exposure: 8 inches (203 mm).
				3. Length: 24 inches (610 mm). Maximum Exposure: 10-1/2 inches (267 mm).
			2. Double Coursing: No 1 Grade.
				1. Length: 16 inches (406 mm). Maximum Exposure: 12 inches (305 mm).
				2. Length: 18 inches (457 mm). Maximum Exposure: 14 inches (356 mm).
				3. Length: 24 inches (610 mm). Maximum Exposure: 16 inches (406 mm).
			3. Exposure: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Machine grooved shingles are manufactured as a rebutted & rejointed shingle with one face striated for a length greater than the maximum exposure. Machine grooved products are for sidewall applications only. Delete if not required.

* 1. REBUTTED AND REJOINTED SHINGLES
		1. Basis of Design: Certigroove Machine Grooved Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Number 1, 100 percent clear, edge grain heartwood.
			2. Grade: Number 2, flat grain and limited sapwood permitted.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.
			3. Face: Grooved.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 16 inches (406 mm).
			2. Length: 18 inches (457 mm).
			3. Length: 24 inches (610 mm).
			4. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete coursing options not required.

* + - 1. Coursing: Single Course.
			2. Coursing: Double Course.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete exposure options not required.

* + - 1. Single Coursing: No. 1 Grade.
				1. Length: 16 inches (406 mm). Maximum Exposure: 7 inches (178 mm).
				2. Length: 18 inches (457 mm). Maximum Exposure: 8 inches (203 mm).
				3. Length: 24 inches (610 mm). Maximum Exposure: 10-1/2 inches (267 mm).
			2. Double Coursing: No 1 Grade.
				1. Length: 16 inches (406 mm). Maximum Exposure: 12 inches (305 mm).
				2. Length: 18 inches (457 mm). Maximum Exposure: 14 inches (356 mm).
				3. Length: 24 inches (610 mm). Maximum Exposure: 16 inches (406 mm).
			3. Exposure: \_\_\_\_\_.

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

* 1. FANCY BUTT SHINGLES
		1. Basis of Design: Certi-Cut Shingles; as manufactured by Members of the Cedar Shake and Shingle Bureau.
			1. Grade: Number 1, 100 percent clear, edge grain heartwood.
			2. Species: Western Red Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete butt thickness options not required.

* + - 1. Thickness: 3/8 inch (10 mm).
			2. Thickness: 1/2 inch (13 mm).
			3. Thickness: 3/4 inch (19 mm).
			4. Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's literature for maximum recommended exposure. Delete length and exposure options not required.

* + - 1. Length: 16 inches (406 mm). Maximum Exposure: 6-1/2 inches (165 mm).
			2. Length: 18 inches (457 mm). Maximum Exposure: 7-1/2 inches (190 mm).
			3. Length and Exposure: \_\_\_\_\_.
			4. Exposure: 8 inches (203 mm).
			5. Exposure: 10-1/2 inches (267 mm).

\*\* NOTE TO SPECIFIER \*\* Delete butt shape options not required.

* + - 1. Butt Shape: Diagonal.
			2. Butt Shape: Fish-scale.
			3. Butt Shape: Diamond.
			4. Butt Shape: Square.
			5. Butt Shape: Half cove.
			6. Butt Shape: Hexagonal.
			7. Butt Shape: Octagonal.
			8. Butt Shape: Round.
			9. Butt Shape: Arrow.
			10. Butt Shape: Custom, as indicated on Drawings.
			11. Butt Shape: Custom, to be selected by Architect.
			12. Butt Shape: Custom, \_\_\_\_\_.

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

* 1. PRESSURE-IMPREGNATED, PRESERVATIVE TREATED SHAKES AND SHINGLES

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Certi-Last; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete base product options not required.

* + - 1. Base Product: Certi-Split.
			2. Base Product: Certi-Sawn.
			3. Base Product: Certigrade.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Premium Grade, 100 percent edge grain.
			2. Grade: Number 1 Grade, up to 20 percent flat grain allowed in each bundle.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete face option not required.

* + - 1. Face: Hand split.
			2. Face: Sawn.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - 1. Thickness: 3/8 inch (10 mm).
			2. Thickness: 1/2 inch (13 mm).
			3. Thickness: 5/8 inch (16 mm).
			4. Thickness: 3/4 inch (19 mm).
			5. Thickness: 7/8 inch (22 mm).
			6. Thickness: 1 inch (25 mm).
			7. Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 16 inches (406 mm).
			2. Length: 18 inches (457 mm).
			3. Length: 24 inches (610 mm).
			4. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Verify recommended exposure of product. Delete exposure options not required.

* + - 1. Exposure: 3-1/2 inches (89 mm).
			2. Exposure: 4 inches (102 mm).
			3. Exposure: 4-1/2 inches (114 mm).
			4. Exposure: 5 inches (127 mm).
			5. Exposure: 5-1/2 inches (140 mm).
			6. Exposure: 6 inches (152 mm).
			7. Exposure: 6-1/2 inches (165 mm).
			8. Exposure: 7 inches (178 mm).
			9. Exposure: 7-1/2 inches (190 mm).
			10. Exposure: 8-1/2 inches (216 mm).
			11. Exposure: 10 inches (254 mm).
			12. Exposure: \_\_\_\_\_.
			13. Fasteners: Type 316 stainless steel.

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

* 1. PRESSURE-IMPREGNATED, FIRE-RETARDANT SHAKES AND SHINGLES

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Certi-Guard; as manufactured by Members of the Cedar Shake and Shingle Bureau.

\*\* NOTE TO SPECIFIER \*\* Delete base product options not required.

* + - 1. Base Product: Certi-Split.
			2. Base Product: Certi-Sawn.
			3. Base Product: Certigrade.

\*\* NOTE TO SPECIFIER \*\* Delete grade option not required.

* + - 1. Grade: Premium Grade, 100 percent edge grain.
			2. Grade: Number 1 Grade, up to 20 percent flat grain allowed in each bundle.

\*\* NOTE TO SPECIFIER \*\* Delete species option not required.

* + - 1. Species: Western Red Cedar.
			2. Species: Alaskan Yellow Cedar.

\*\* NOTE TO SPECIFIER \*\* Delete face option not required.

* + - 1. Face: Hand split.
			2. Face: Sawn.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - 1. Thickness: 3/8 inch (10 mm).
			2. Thickness: 1/2 inch (13 mm).
			3. Thickness: 5/8 inch (16 mm).
			4. Thickness: 3/4 inch (19 mm).
			5. Thickness: 7/8 inch (22 mm).
			6. Thickness: 1 inch (25 mm).
			7. Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 16 inches (406 mm).
			2. Length: 18 inches (457 mm).
			3. Length: 24 inches (610 mm).
			4. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Verify recommended exposure of product. Delete exposure options not required.

* + - 1. Exposure: 3-1/2 inches (89 mm).
			2. Exposure: 4 inches (102 mm).
			3. Exposure: 4-1/2 inches (114 mm).
			4. Exposure: 5 inches (127 mm).
			5. Exposure: 5-1/2 inches (140 mm).
			6. Exposure: 6 inches (152 mm).
			7. Exposure: 6-1/2 inches (165 mm).
			8. Exposure: 7 inches (178 mm).
			9. Exposure: 7-1/2 inches (190 mm).
			10. Exposure: 8-1/2 inches (216 mm).
			11. Exposure: 10 inches (254 mm).
			12. Exposure: \_\_\_\_\_.
			13. Fasteners: Type 316 stainless steel.
	1. FINISH

\*\* NOTE TO SPECIFIER \*\* Delete finish and color options not required.

* + 1. Paint: Mold and mildew resistant.
			1. Color as indicated on Drawings.
			2. Color to be selected by Architect.
			3. Color: \_\_\_\_\_.
		2. Solid Color Stain: Mold and mildew resistant.
			1. Color as indicated on Drawings.
			2. Color to be selected by Architect.
			3. Color: \_\_\_\_\_.
		3. Transparent Finish: Mold and mildew resistant and UV filtering.
			1. Color as indicated on Drawings.
			2. Color to be selected by Architect.
			3. Color: \_\_\_\_\_.
		4. Semi-Transparent Finish: Mold and mildew resistant and UV filtering.
			1. Color as indicated on Drawings.
			2. Color to be selected by Architect.
			3. Color: \_\_\_\_\_.
		5. Bleaching Oil: Mold and mildew resistant with oil base water repellant.
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.
			1. Comply with installation instructions as published in the CSSB Exterior and Interior Wall Manual.
	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