

SECTION 10 82 00

GRILLES AND SCREENS

[Specifier Notes] – This document uses hidden text to guide the specifier through various options while editing the document. Hidden text may be turned on by quickly by clicking on the "Show/Hide" symbol "¶" in the ribbon; by going to "File" above the ribbon at the top left, then to "Options" at the very lower left, then to "Display" on the left side of the menu pop-up, and then check the box next to "Hidden Text."

Please delete this note before printing.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Timber and Metallic look, extruded aluminum louvers.

1.2 RELATED SECTIONS:

- A. Section 06 11 00 – Rough Carpentry.
- B. Section 07 25 00 – Weather Barriers.
- C. Section 05 50 00 - Metal Fabrications.

1.3 SUBMITTALS

- A. Submit in accordance with requirements of Section 01 30 00 - Administrative Requirements.
- B. Product Data: For each product specified include the following:
 - 1. Manufacturer's technical product data, including component descriptions, construction details, and test results showing compliance with specified performance criteria.
 - 2. Manufacturer's surface preparation and installation instructions.
- C. Verification Samples: Provide two samples of specified aluminum louver, full louver width by minimum 4 inches in length, including the selected color and finish.
- D. Informational Submittals:
 - 1. Installer qualifications.
 - 2. Product test reports.
 - 3. Sample warranties.
- E. Closeout Submittals:
 - 1. Maintenance data for installed system.

1.4 QUALITY ASSURANCE

- A. Installer's Qualifications: An entity with demonstrated experience installing systems similar in scope and complexity to those specified.
- B. Mock-Up: Arrange for the construction of a mock-up of the products specified in this section. Example must include one cladding section for each type specified, including the selected color and finish. Owner and Architect will verify acceptance of products and workmanship.
 - 1. Accepted mockups may be incorporated into the work.
 - 2. Provide mockups as indicated on the drawings.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle materials and products in accordance with the manufacturer's instructions and recommendations and industry standards.
- B. Store all materials in the manufacturer's original packaging until ready for installation. Protect all products from damage or exposure to adverse weather conditions.
 - 1. Store products indoors or if outdoors under a tarpaulin in their original timber crates

1.6 PROJECT CONDITIONS

- A. Prior to installation, verify that dimensions are consistent with those found in the shop drawings and packing list. Where discrepancies exist, confirm the proper dimensions with the Architect before proceeding with work.

1.7 WARRANTY

Warranty on Ever Art Wood: Manufacturer agrees to replace or refund the purchase price of nonconforming ArtWood that fails within the specified warranty period.

- 1. Failure Methods: Excessive fading or delamination of the surface layer within the prescribed warranty period.
- 2. Warranty Period: 10 years from date of installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design Manufacturer: Takasho Co. Ltd, Wakayama, Japan.

US supplier: Covet Global.

- 2. Website: www.covetglobal.com.

- B. Supplier: Covet Global.

- 1. Address: Hyde St Business Park, U27 / 131 Hyde St, Yarraville VIC, Australia 3013.
- 2. Phone: +613 9398-8128
- 3. Website: www.covetglobal.com.

2.2 PERFORMANCE REQUIREMENTS:

- A. Surface-Burning Characteristics: Meet the following values when tested in accordance with ASTM E84:
 - 1. Class A Flame-Spread Index: 0 to 25.
- B. Combustibility Characteristics: AS/NZS 1530.1, Aluminum type, not deemed combustible.
- C. Flame Spread Characteristics:
 - 1. AS/NZS 1530.3: Spread of flame, index 0.
- D. Heat and Smoke Release Rates: AS/NZS 3837:1998, Group 1.
- E. Environmental Performance:
 - 1. UV Resistance: Pass at least 10000 hours of Xenon-Arc exposure when tested in accordance with SAE J1960-2004.
 - 2. Salt Spray: have zero effect on all surfaces after at least 500 hours of exposure in accordance with ASTM B117-2018

2.3 TIMBER AND METALIC LOOK, EXTRUDED ALUMINUM LOUVERS.

- A. Capped, Flush Interlocking, Aluminum Batten Profile: Provide two-piece aluminum batten system with flush base plate and cover, where the base plate is visible on three sides.

Basis of Design Product: Standard Kabebari S Series, Ever Art Wood Collection, by Covet Global.

2. Physical Characteristics:

Profile Shape: Kogarana.

- 1) Profile Size: 24mm by 27mm.
- b. Profile Shape: Rectangle.
 - 1) Profile Size: 40mm by 20mm.
 - 2) Profile Size: 30mm by 50mm.
 - 3) Profile Size: 30mm by 85mm.
 - 4) Profile Size: 50mm by 100mm.
 - 5) Profile Size: 50mm by 150mm.
- c. Profile Shape: Square.
 - 1) Profile Size: 30mm by 30mm.
 - 2) Profile Size: 40mm by 40mm.
 - 3) Profile Size: 50mm by 50mm.
- d. Profile Shape: Oki.
 - 1) Profile Size: 100mm by 100mm.
- e. Profile Shape: Plank.
 - 1) Profile Size: 100mm by 12mm.
- f. Profile Shape: Nami Plank.
 - 1) Profile Size: 100mm by 12mm.
- g. Profile Shape: Achi.
 - 1) Profile Size: 40mm by 40mm.
- h. Profile Shape: Domu.
 - 1) Profile Size: 90mm by 42mm.

- i. Profile Spacing:
 - 1) As indicated on the drawings.
- j. Maximum Length: Up to 6050mm (238 3/16-inches)

Endcap: Provide standard ABS plastic endcap, coordinating in color to profile woodgrain finish.

- l. Endcap: Provide aluminum endcap, with painted woodgrain to match profile woodgrain finish.
- m. Mounting: Baseplate to be mechanically fastened to framework.

- B. Capped, Concealed Interlocking Aluminum Batten Profile: Provide two-piece aluminum batten system where the cover fully encloses the base plate for a concealed appearance.

Basis of Design Product: Surface Kabebari S Series, Ever Art Wood Collection, by Covet Global.

2. Physical Characteristics:

Profile Shape: Low Profile.

- 1) Profile Size: 40mm by 20mm.
 - 2) Profile Size: 50mm by 25mm.
- b. Profile Shape: Rectangle.
 - 1) Profile Size: 30mm by 50mm.
 - 2) Profile Size: 30mm by 85mm.
 - 3) Profile Size: 40mm by 80mm.
 - 4) Profile Size: 50mm by 100mm.
 - 5) Profile Size: 50mm by 150mm.
- c. Profile Shape: Square.
 - 1) Profile Size: 30mm by 30mm.
 - 2) Profile Size: 40mm by 40mm.
 - 3) Profile Size: 50mm by 50mm.
- d. Profile Shape: Achi.
 - 1) Profile Size: 40mm by 40mm.
- e. Profile Spacing:
 - 1) As indicated on the drawings.
- f. Maximum Length: Up to 6050mm (238 3/16-inches)

Endcap: Provide standard ABS plastic endcap, coordinating in color to profile woodgrain finish.

- b. Endcap: Provide aluminum endcap, with painted woodgrain to match profile woodgrain finish.
- c. Mounting: Baseplate to be mechanically fastened to framework.

- C. Capped, Interlocking Reveal, Aluminum Batten Profile: Provide low-profile, two-piece aluminum batten system with a raised base plate creating reveal.

Basis of Design Product: Slimline Kabebari S Series, Ever Art Wood Collection, by Covet International.

2. Physical Characteristics:

Profile Shape: Rectangle.

- 1) Profile Size: 30mm by 13mm.
 - 2) Profile Size: 30mm by 18mm.
- b. Profile Shape: Mikadzuki.
 - 1) Profile Size: 44mm by 18mm.

- c. Profile Shape: Single Round.
 - 1) Profile Size: 22mm by 18mm.
- d. Profile Shape: Double Round.
 - 1) Profile Size: 44.5mm by 18mm.
- e. Profile Shape: Curved.
 - 1) Profile Size: 30mm by 18mm.
- f. Profile Spacing:
 - 1) As indicated on the drawings.
- g. Maximum Length: Up to 6050mm (238 3/16-inches)

Endcap: Provide standard ABS plastic endcap, coordinating in color to profile woodgrain finish.

- b. Endcap: Provide aluminum endcap, with painted woodgrain to match profile woodgrain finish.
- c. Mounting: Baseplate to be mechanically fastened to framework.

D. Aluminum Finishes:

- 1. Color: [Howaito Pain] [Supuringu Oku] [Oku] [Sibo Oku] [Kareiro] [Kurashikku] [Buraun Gurei] [Biera Oku] [Teak] [Kuri Masame] [Riigaru Oku] [Pain] [Raito Ipe] [Jara] [Neikiddo Moku] [Buraun Eboni] [Weebu Mahogani] [Shadou Ipe] [Burakku Eboni] [Daaku Pain] [Kurocha] [Kakicha] [Chakooru Gurei] [Burakku Erumu] [Burakku Suchi-ru] [Rasuti Buruan] [Rasuti Koppa].

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates to receive the aluminum profiles are flat and true, clean and of a quality suitable for its environment.
- B. Do not begin work until adjacent substrates have been properly prepared to receive work specified in this section. Commencement of aluminum profiles installation will constitute acceptance of substrates to receive the work.

3.2 PREPARATION

- A. General: Comply with manufacturer's printed installation instructions, clean substrates of projections and substances detrimental to application.
- B. Protect adjacent substrates not to receive the aluminum profiles.

3.3 INSTALLATION

- A. General: Install in accordance with manufacturer's current installation instructions, industry recognized best practices, all code bodies having jurisdiction, and approved shop drawings.
 - 1. Do not install damaged products.
 - 2. Refer to manufacturer's published technical data for expansion and contraction due to changes in temperature.

- B. Ensure the substrate or supporting frame is flat and meets necessary weatherproofing or screening requirements.
- C. Install each aluminum profile individually.
- D. Cut aluminum using a drop saw with an aluminum blade.
- E. Fastening:
 - 1. Use appropriate screws for the substrate. For metal surfaces (e.g., furring channels, top hats, steel frames), use stainless steel or bi-metal screws to prevent galvanic reaction.
 - 2. Fasten at maximum 1-meter spans. Always secure the male (base) section first, then clip the female (top) section over it.
 - a. Verify fastening requirements with Covet Global for spans greater than the 1-meter maximum.
- F. End Cap Installation:
 - 1. Always cap extrusion ends with supplied end caps or flashing to prevent moisture ingress.
 - 2. Plastic end caps: Secure with supplied screws or apply Sikaflex inside the extrusion before inserting to prevent movement.
 - 3. Metal (painted) end caps: Must be screwed to the extrusion. Only apply to straight 90-degree cuts—not angled cuts.
- G. Handling Precautions:
 - 1. Never strike extrusions directly with a hammer or rubber mallet. Use a pine plank between the mallet and the extrusion to prevent surface damage or denting.

3.4 CLEANING AND PROTECTION

- A. Clean and remove all stains, grime, or other spoilage using manufacturer's recommended methods. Only use materials and methods approved by the manufacturer for use on the finishes specified.
- B. Damaged products must be repaired or replaced prior to substantial completion.
- C. Protect installed products until completion of work specified in this section.

END OF SECTION