SPEC NOTE: This Section specifies a rigid PVC interlocking siding with a factory laminated PVC film, suitable for residential and commercial exterior wall applications.



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SPEC NOTE: This guide specification uses capitalized terms defined in CCDC contracts (Owner, Consultant, Product, etc.) and those terms are intended to have the CCDC defined meanings. When other than a CCDC contract is used, revise the terms to suit.

# General

## SECTION INCLUDES

### This Section includes requirements for supply of rigid polyvinylchloride (PVC) interlocking siding boards with laminated PVC film on exposed surfaces and its installation on exterior walls.

## RELATED REQUIREMENTS

### Section [07 25 00 - Weather Barriers].

### Section [07 60 00 – Flashing and Sheet Metal].

### Section [07 92 00 ‑ Joint Sealants].

## REFERENCES

### CCMC Registry of Product Evaluations.

### CAN/CGSB-41.24-95, Rigid Vinyl Siding, Soffits and Facia.

### CAN/ULC-S101-14 Standard Methods of Fire Endurance Tests of Building Construction Materials.

### CAN/ULC-S102-2018, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

### CAN/ULC-S102.2-2018, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.

### CAN/ULC-S134-13-REV1, Standard Method of Fire Tests of Exterior Wall Assemblies.

### ASTM D3679-17, Standard Specification for Rigid PVC Siding.

### ASTM E119 -22, Standard Test Methods for Fire Tests of Building Construction and Materials.

### ASTM G154- 16, Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.

### ASTM G155-21, Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials.

### ASTM D635-18, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.

### American Architectural Manufacturers Association (AAMA):

#### AAMA 303-19, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles.

#### AAMA 307-16, Voluntary Specification for Laminates Intended for Use on AAMA Certified Profiles.

#### AAMA 664-21, Voluntary Specification for In-Process Quality Control Requirements for Applicators of Synthetic Interior and Exterior Laminates.

## COORDINATION

### Coordinate work of this Section with installation of flashings to provide drainage to exterior.

## ACTION SUBMITTALS

### Submit proof of manufacturer’s CCMC listing and listing number.

### Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 ‑ Submittal Procedures] [\_\_\_].

### Samples:

#### Submit samples [in accordance with Section [01 33 00 ‑ Submittal Procedures] [\_\_\_].

#### [Submit colour samples for colour/pattern selection]. Submit duplicate samples of actual siding material, full profile width x [200] [\_\_\_] mm long, of specified colour/pattern and profile.

#### [Submit samples of all exposed accessories and trims].

### Installation Instructions: Submit manufacturer's printed installation instructions.

### Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.

### Sustainable Design Submittals: Submit required documentation in accordance with Project sustainable design requirements in Section [01 35 64 – LEED Requirements] [01 35 67 – Sustainability Certification Requirements] [\_\_\_].

## CLOSEOUT SUBMITTALS

### Submit in accordance with Section [01 78 00 – Closeout Submittals] [\_\_\_].

### Maintenance Data: Submit manufacturer's printed instructions for cleaning and repair procedures. Include names and contact information of Product manufacturer and installer.

### Warranty Documentation: Submit manufacturer’s warranty.

## MAINTENANCE MATERIAL SUBMITTALS

SPEC NOTE: Specify only if and as required by the Owner.

### Submit in accordance with Section [01 78 00 – Closeout Submittals] [\_\_\_].

### Supply:

#### One manufacturer’s touch-up pen for each colour of siding material.

#### [1%] [\_\_%] of installed boards in manufacturer’s maximum standard board length.

#### [One] [\_\_\_] of each accessory and trim shape in manufacturer’s maximum standard length.

### Package materials with protective coverings and label.

## QUALITY ASSURANCE

### Comply with AAMA 664-21.

SPEC NOTE: Specify the following only where quality of the Product or its installation is of particular concern.

### Test Reports: Submit certified test reports showing Product compliance with specified performance characteristics and physical properties.

### Installer Qualifications: Minimum [one] [three] [\_\_\_] year[s] experience installing specified Products or similar products, on projects of similar size to this Project.

### Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.

### Mock-Up: In accordance with Section [01 40 90 – Quality Requirements] [\_\_\_].

#### Construct a [\_\_\_] mm x [\_\_\_] mm mock-up of siding installation [not] forming part of the Work for Consultant’s review.

#### Include each accessory and trim type, [an [outside] [inside] corner] [an intersection with [adjacent material] [a door] [a window]].

#### Approved mock-up establishes an acceptable standard for the Work.

## DELIVERY, STORAGE, AND HANDLING

### Comply with manufacturer’s instructions.

## SITE CONDITIONS

### Proceed with installation only when ambient temperature is above -20 C.

## WARRANTY

### Provide the following manufacturer’s limited warranty coverages:

#### That Product will be free from initial manufacturing defects in material or workmanship and against warping, blistering, and peeling for 50 years, prorated.

#### Against unreasonable discolouration for 15 years, non-prorated.

# Products

## DISTRIBUTOR

### Materials Distributor:

#### Gentek Building Products, 1001 Corporate Drive, Burlington, ON, L7L 5V5 Contact: Martin Miville-Dechene, Business Development Manager M: (905) 208-7007; E: [martin\_miville-dechene@gentek.ca](mailto:martin_miville-dechene@gentek.ca); W: [www.gentek.ca](http://www.gentek.ca)

## MATERIALS

### Rigid PVC Extrusions: to AAMA 303-19.

### Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film, to CAN/CGSB-41.24-95 and ASTM D3679-17.

SPEC NOTE: Refer to manufacturer’s product data for available panel profiles.

### Classic Board Profile: Nominally 150 mm wide x 13 mm thick.

### Shadowline Board Profile: [Nominally 150 mm wide x 13 mm thick with [150 mm] [75 mm reveal.] [Nominally 300 mm wide x 13 mm thick with 50 mm reveal.]

SPEC NOTE: Available standard panel lengths vary depending on board type. Refer to manufacturer’s product data.

### Board Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].

### Colour/pattern: [Barn Board Grey] [Beach Wood Grey] [Black Sand] [Black Wood] [Barrel Oak] [Brown Oak] [Brushed Metallic] [Brushed Silver] [Canadian Pine] [Charred Black] [Cinnamon Walnut] [Smoke Grey] [Spanish Cedar] [Speckled Graphite] [Sun Bleached Oak] [Teak] [Bamboo] [Toffee] [Black Walnut] [California Redwood] [Chocolate Walnut] [Atlantic White] [Chai Cedar] [Desert Oak] [Golden Oak] [Brushed Titanium] [Honey] [Iron Glimmer White] [Modern Walnut] [Monument Oak] [Mountain Oak] [Mountain Pine] [Natural Oak] [Navy] [Pure White] [Toffee] [Tofino] [Dark Wood] [Harvest Walnut] [Brushed Metallic].

SPEC NOTE: Trims are available in PVC, aluminum, or combination. Refer to manufacturer’s product data.

### Accessories and Trims: [PVC] [Aluminum] starter strip, aluminum/PVC two-piece J-trim, [aluminum/PVC two-piece outside corner] [aluminum H Mold] [PVC one piece J-trim] [PVC inside corner], matching finish to siding, pre‑punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].

### Furring: [\_\_\_\_mm] x [\_\_\_\_mm] [pressure treated wood furring strips] [galvanized steel] [aluminum] [furring channels] [as indicated on Drawings].

### Fasteners: [galvanized] [stainless] steel.

## PERFORMANCE CRITERIA

### Material Characteristics: to CAN/CGSB-41.24-95.

### Dimensional Tolerances: to CCMC TG 07 46 33.07.

### Flammability: Category HB when tested to ASTM D635-18.

### Acid Rain Resistance: to CCMC TG 07 46 33.07.

### Wind Load Resistance: to CCMC TG 07 46 33.07.

### Durability: to CCMC TG 07 46 33.07.

### Accelerated Weathering Resistance: Meets ASTM G155-21 and ASTM G154-16. Meets ASTM D3679 for weathering after 24 month exposure.

### Surface Burning Characteristics: Flame spread rating < 75 and smoke developed classification <450 when tested to CAN/ULC-S102-2018. Flame spread rating < 120 when tested to CAN/ULC-S102.2-2018.

### Flammability: Category HB when tested to ASTM D635-18.

### Fire Test of Wall Assembly: Meets CAN/ULC-S101-14, ASTM E119, and CAN/ULC-S134-13.

### PVC Film: to AAMA 307-16.

# Execution

## VERIFICATION OF CONDITIONS.

### Verify that substrates are suitable for installation of the Work of this Section. Commencement of Work denotes acceptance of conditions.

## INSTALLATION

SPEC NOTE: Furring to create rainscreen is not required for vertical siding installations.

### Install furring [strips] [channels] to provide rainscreen.

SPEC NOTE: “Classic” boards may be installed differently for either U-Channel or V-Groove appearance using the same product.

### [Install Classic siding [horizontally] [vertically] [diagonally] [as indicated on Drawings] for [U-Channel] [V-Groove] appearance.]

### [Install Shadowline siding [horizontally] [vertically] [diagonally] [with mix and match of different profiles] [as indicated on Drawings].]

### Install siding, accessories and trim in strict accordance with manufacturer’s printed instructions.

### Scribe and cut as required to neatly fit abutting walls and adjacent surfaces, and to accommodate other materials penetrating through boards.

### Secure boards, accessories, and trim in place, rigid, plumb and square.

## ADJUSTING

### Where minor surface damage has occurred, touch-up by methods recommended by manufacturer. Remove and replace damaged materials that cannot be satisfactorily repaired.

## CLEANING

### Upon completion of installation, remove surplus materials, rubbish, tools and equipment, and clean as specified in Section 01 74 00 – Cleaning and Waste Management.

### Where necessary, remove dirt and other contaminants in accordance with manufacturer’s cleaning instructions.

END OF SECTION