

1 General

1.1 **SECTION INCLUDES**

.1 Labour, Products, equipment and services necessary for cedar siding system work in accordance with the Contract Documents.

1.2 **REFERENCES**

.1 CSA B111, Wire Nails, Spikes and Staples.

.2 NLGA Standard Grading Rules for Canadian Lumber.

1.3 **DESIGN REQUIREMENTS**

.1 Design siding system to withstand live, dead, lateral, wind, seismic, handling, transportation, and erection loads.

.2 Design siding system in accordance with following Climatic Design Data for Toronto contained in Ontario Building Code.

.1 Design Temperature: January 1%, July 2 ½%.

.2 Wind (Hourly Wind Pressures): 1 in 50 year occurrence.

.3 Earthquake: Seismic Data as listed.

.3 Prevent rain penetration through siding system. Incorporate means of draining to the exterior.

.4 Design siding system to prevent restriction of thermal induced movement which would induce deformation such as warping, buckling, and failure of joint seals and fasteners. Design siding system to prevent vibration when subject to the effects of wind.

1.4 **SUBMITTALS**

.1 Product data:

.1 Submit duplicate copies of manufacturer's Product data in accordance with Section 01 10 10 indicating:

.1 Performance criteria, compliance with appropriate reference standard(s), characteristics, and limitations.

.2 Product transportation, storage, handling and installation requirements.

.2 Shop drawings: Submit shop drawings in accordance with Section 01 10 10 indicating elevations, details, sections, profiles, dimensions, thickness of materials, finishes, methods of joining, arrangement of sheets, joints, and seams, special shapes, methods of anchoring, anchor and clip details, locations where salvages siding is used, sealants, connections to adjoining work, and compliance with design criteria and requirements of related work.

.3 Samples: Submit two 300 x 300 mm samples of siding in accordance with Section 01 10 10.

1.5 **QUALITY ASSURANCE**

- .1 Mock-up:
 - .1 Construct one 3 m² mock-up of siding in location acceptable to Consultant indicating as a minimum one exterior corner, one inside corner, and one window or door interface.
 - .2 Arrange for Consultant's review and acceptance, allow 48 hours after acceptance before proceeding with work.
 - .3 Mock-up may remain as part of Work if accepted by Consultant. Remove and dispose of mock-ups which do not form part of Work.
 - .4 Upon acceptance, mock-up shall serve as a minimum standard of quality for the balance of the work of this Section.

1.6 **DELIVERY, STORAGE, AND HANDLING**

- .1 Do not store siding in heated building. Keep siding on manufacturer's supplied pallets.

2 Products

2.1 **MATERIALS**

- .1 All materials under work of this Section, including but not limited to, sealants are to have low VOC content limits.
- .2 Cedar siding:
 - .1 Salvaged cedar siding stored on Site.
 - .2 New cedar siding to match existing to LGA Standard Grading Rules for Canadian Lumber.
- .3 Accessories: Starter strips, mouldings, exposed trim, closures, cap and corner pieces of manufacturer's standard.
- .4 Wood strapping: In accordance with Section 06 10 00.
- .5 Fasteners: nails to CSA B111, hot galvanized steel, sized as required, spiral thread type with flat head. Nails for prefinished siding to incorporate plastic nailing cap colour match to siding.
- .6 Siding sealant: ASTM C920, Type S, Grade NS; One-part, low modulus, moisture curing silicone sealant, Dymonic FC by Tremco Ltd. Or approved alternative by Dow Consumer Solutions. Colour: As selected by Consultant.
- .7 Sealant primer: Moisture curing primer. Tremco Primer #1 by Tremco Ltd. or approved alternative by Dow Consumer Solutions.
- .8 Joint backing: Product as recommended by siding sealant manufacturer.

3 Execution

3.1 **EXAMINATION**

- .1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

3.2 **INSTALLATION**

- .1 Install siding to match existing in accordance with reviewed shop drawings and manufacturer's written instructions.
- .2 Install furring strips, vertically or horizontally depending on direction of siding, and nail into wall studs at 400 o.c., over the full height of the wall. Furring strips must not be less than 6 mm thick.
- .3 Level and install sill flashings, starter strips, inside corner flashings, edgings and flashings over openings.
- .4 Fasten siding in straight, aligned lengths to strapping at 400 mm o.c. maximum using two nails at each fixing location. Stagger butt joints not less than 800 mm and distribute evenly over wall faces. Cut butt joints at 45° and for vertical siding slope to outside. Seal cut surfaces.
- .5 Align joints between adjacent siding pieces over the strapping. Fasten on each side at the top nailing line.
- .6 Butt siding to inside and outside corners leaving a 3 mm gap. Apply inside and outside corners before siding.
- .7 Joint backing and sealant:
 - .1 Prime substrate surface and mask as recommended by sealant manufacturer.
 - .2 Install joint backing and sealant at penetrations, joints and perimeter for weathertight installation. Tool sealant to concave profile.

END OF SECTION