PART 1 - GENERAL

1.1 RELATED EQUIREMENTS

.1 Section 01 33 00 Submittal Procedures.

.2 Section 01 74 21 Construction and Demolition...

1.2 REFERENCES

.1 CAN/ULC-S702, Standard for Mineral Fibre Insulation.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Product Data:

.1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.

.2 Manufacturer's Instructions:

.1 Submit manufacturer's installation instructions.

1.4 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.

.2 Remove from site and dispose of packaging materials at appropriate recycling facilities.

.3 Collect and separate for disposal corrugated cardboard packaging material in appropriate on-site for recycling in accordance with Waste Management Plan.

PART 2 - PRODUCTS

2.1 INSULATION

.1 Batt and blanket mineral fibre: to CAN/ULC S702.

2.2 ACCESSORIES

.1 Staples: 12mm minimum leg.

.2 Tape: as recommended by manufacturer.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 INSULATION INSTALLATION

.1 Install insulation to maintain continuity of thermal protection to building elements and spaces.

.2 Fit insulation closely around electrical boxes, pipes, ducts, frames and other objects in or passing through insulation.

.3 Do not compress insulation to fit into spaces.

.4 Keep insulation minimum 75mm from heat emitting devices such as recessed light fixtures, and minimum 50mm from sidewalls of CAN/ULC-S604 Type A chimneys and CAN/CGA-B149.1 and CAN/CGA-B149.2 Type B and L vents.

.5 Do not enclose insulation until it has been inspected and approved by Departmental Representative.

3.3 CLEANING

.1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

PART 1 - GENERAL

1.1 RELATED EQUIREMENTS

.1 Section 01 33 00 Submittal Procedures

.2 Section 01 74 21 Construction and Demolition...

1.2 REFERENCES

.1 Canadian General Standards Board (CGSB).

- .1 CAN/CGSB-51.32, Sheathing, Membrane, Breather Type.
- .2 CAN/CGSB-93.2, Prefinished Aluminum Siding, Soffits and Fascia, for Residential Use.
- .3 CAN/CGSB-93.3, Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet for Residential Use.
- .4 CAN/CGSB-93.4, Galvanized and Aluminum-Zinc Alloy Coated Steel Siding Soffits and Fascia, Prefinished, Residential.
- .5 CGSB 93.5, Installation of Metal Residential Siding, Soffits and Fascia.

.2 Canadian Standards Association (CSA International).

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

.3 Environmental Choice Program (ECP).

- .1 CCD-045, Sealants and Caulking Compounds.

.4 Underwriters' Laboratories of Canada (ULC).

- .1 CAN/ULC-S706, Wood Fibre Thermal Insulation for Buildings.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Product data: submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.

.2 Shop Drawings:

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

.2 Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, soffits, fascia, metal furring, and related work.

1.4 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

.2 Divert used metal cut-offs from landfill by disposal into the on-site metals recycling bin.

.3 Divert reusable materials for reuse at nearest used building materials facility.

.4 Divert unused caulking, sealants, and adhesive materials from landfill through disposal at hazardous material depot.

PART 2 - PRODUCTS

2.1 ALUMINUM CLADDING COMPONENTS

.1 Strip siding: to CAN/CGSB-93.2.

.1 Colour: White.
.2 Gloss: medium.

.2 Soffit: to CAN/CGSB-93.2, Type B, Class 1.

.1 Colour: White.
.2 Gloss: medium.
.3 Profile: flat sheet 'V' crimped for stiffness, vented, preformed with elongated slits and small perforations.

.1 Pattern: plain surface.
.2 Thickness0,65mm base metal thickness.
.

.4 Fascia and exposed trim: to CAN/CGSB-93.2, Type C, Class 1.

.1 Colour: White.
.2 Gloss: medium.

.3 Profile: custom manufacturer's standard as indicated.
.4 Pattern: plain surface.

2.2 STEEL CLADDING AND COMPONENTS

.1 Strip siding: to CGSB 93.4, Type A vertical Class plain surface.

.1 Finish coating: Class F1S.
.2 Colour: White.
.3 Gloss: medium.
.4 Thickness: 0,65mm base metal thickness.

2.3 ACCESSORIES

.1 Exposed trim: inside corners, outside corners, cap strip, drip cap, undersill trim, starter strip and window/door trim of same material, colour and gloss as cladding, with fastener holes pre-punched.

2.4 FASTENERS

.1 Nails: CSA B111. Screws: ANSI B18.6.4.

2.5 CAULKING

.1 Sealants: Sikaflex from Sika.

.1 Test for acceptable VOC emissions in accordance with ASTM D 2369 and ASTM D 2832.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 INSTALLATION

.1 Install cladding in accordance with CGSB 93.5, and manufacturer's written instructions

.2 Install continuous starter strips, inside [and outside] corners, edgings, soffit, drip, cap, sill and window/door opening flashings as indicated.

.3 Install outside corners, fillers and closure strips with carefully formed and profiled work.

.4 Install soffit and fascia cladding as indicated.

.5 Maintain joints in exterior cladding, true to line, tight fitting, hairline joints.

.6 Attach components in manner not restricting thermal movement.

.7 Caulk junctions with adjoining work with sealant.

3.3 CLEANING

.1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

.1 01 74 21 - Construction and Demolition.

1.2 REFERENCES

.1 The Aluminum Association Inc. (AAI)

- .1 AAI-Aluminum Sheet Metal Work in Building Construction.
- .2 AAI DAF45, Designation System for Aluminum Finishes.

.2 American Society for Testing and Materials International (ASTM)

.3 Canadian Roofing Contractors Association (CRCA)

- .1 Roofing Specifications Manual.

.4 Canadian General Standards Board (CGSB)

- .1 CAN/CGSB-37.5-M89, Plastic Cement.
- .2 CAN/CGSB-51.32-[M77], Sheathing, Membrane, Breather Type.
- .3 CAN/CGSB-93.1-[M85], Sheet Aluminum Alloy, Prefinished, Residential.

1.4 WASTE MANAGEMENT AND DISPOSAL

.1 Sort and recycle waste in accordance with Section 01 74 21 - Management and Disposal of Construction / Demolition Waste.

.2 Remove all packaging materials from site and take them to appropriate recycling facilities.

.3 Retrieve and sort the packages and place them in the appropriate bins provided on site for recycling, according to the waste management plan.

.4 Place hazardous or toxic waste in the designated containers.

.5 Ensure that empty containers are sealed and stored properly, out of reach of children, for their elimination.

.6 Send unused metal elements to a metal waste recycling facility.

.7 Send unused paint products and sealants to an approved hazardous materials collection site.

.8 It is forbidden to pour unused paint products and sealants into drains, rivers, lakes, on the ground or at any other place where it could cause a risk to health or the environment.

.9 Fold, flatten, and place sheet metal strapping in designated areas for recycling.

PART 2 - PRODUCTS

2.1 SHEET METAL MATERIALS

.1 Aluminum alloy coated steel sheet: commercial quality, regular spangle surface, 0,65mm base metal thickness.

2.2 PREFINISHED STEEL SHEET

.1 Prefinished steel with factory applied polyvinylidene fluoride.

.1 Class F1S.
.2 Colour selected by Departmental Representative from manufacturer's standard range.

2.3 PREFINISHED ALUMINUM SHEET

.1 Finish: factory applied coating to CAN/CGSB-93.1 supplemented and amended as follows:

.1 Type 2.
.2 Class F2S.
.3 Colour selected by Departmental Representative from manufacturer's standard range.

.2 Thickness specified for prefinished aluminum sheet applies to base metal.

2.4 ACCESSORIES

.1 Isolation coating: alkali resistant bituminous paint.

.2 Plastic cement: to CAN/CGSB 37.5.

.3 Sealants: Sikaflex 15LM from Sika.

.4 Cleats: of same material, and temper as sheet metal, minimum 50mm wide. Thickness same as sheet metal being secured.

.5 Fasteners: of same material as sheet metal, to CSA B111, flat head roofing nails of length and thickness suitable for metal flashing application.

.6 Washers: same material as sheet metal, 1 mm thick, with rubber packing.

.7 Touch-up paint: as recommended by prefinished material manufacturer.

2.5 FABRICATION

.1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details.

.2 Fabricate aluminum flashings and other sheet aluminum work in accordance with AAI-Aluminum Sheet Metal Work in Building Construction.

.3 Form pieces in 2400mm maximum lengths. Make allowance for expansion at joints.

.4 Hem exposed edges on underside 12mm. Mitre and seal corners with sealant.

.5 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.

.6 Apply isolation coating to metal surfaces to be embedded in concrete or mortar.

2.6 METAL FLASHINGS

.1 Form flashings, copings and fascias to profiles indicated of galvanized prefinished aluminum.

2.7 EAVES TROUGHS AND DOWNPIPES

.1 Form eaves troughs and downpipes from aluminum sheet metal.

.2 Sizes and profiles as indicated.

.3 Provide goosenecks, outlets, strainer baskets and necessary fastenings.

PART 3 - EXECUTION

3.1 INSTALLATION

.1 Install sheet metal work in accordance with CRCA FL series details, AAI-Aluminum Sheet Metal Work in Building Construction as detailed.

.2 Use concealed fastenings except where approved before installation.

.3 Provide underlay under sheet metal. Secure in place and lap joints 100 mm.

.4 Counterflash bituminous flashings at intersections of roof with vertical surfaces and curbs. Flash joints using single S-lock forming tight fit over hook strips,

.5 Lock end joints and caulk with sealant.

.6 Install surface mounted reglets true and level, and caulk top of reglet with sealant.

.7 Insert metal flashing into reglets to form weather tight junction.

3.3 EAVES TROUGHS AND DOWNPIPES

.1 Install eaves troughs and secure to building at 750mm on centre with eaves trough spikes through spacer ferrules. Slope eaves troughs to downpipes as indicated. Seal joints watertight.

.2 Install downpipes and provide goosenecks back to wall. Secure downpipes to wall with straps at 1 800mm on centre; minimum two straps per downpipe.