1. GENERAL

1.1 RELATED SECTIONS

.1 Section 09900 - Interior Painting.

1.1 References

- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - AWMAC Quality Standards for Architectural Woodwork 1991.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-11.3-M87, Hardboard.
- .4 Canadian Standards Association (CSA)
 - .1 CSA B111-1974 R1998), Wire Nails, Spikes and Staples.
 - .2 CAN/CSA-G164-M92 (R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA-O141-91 (R1999), Softwood Lumber.
- .5 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress January 1986.
- .6 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 1996.

1.2 Shop Drawings

- .7 Submit shop drawings in accordance with Section 01300 Submittals.
- .8 Indicate details of construction, profiles, jointing, fastening and other related details.
- .9 Indicate all materials, thicknesses, finishes and hardware.

1.3 Delivery, Storage and Handling

- .10 Deliver, handle, store and protect materials in accordance with Division 1 Requirements.
- .11 Protect materials against dampness during and after delivery.
- .12 Store materials in ventilated areas, protected from extreme changes of temperature or humidity.

2. PRODUCTS

1.4 Lumber Material

- .1 Softwood lumber: unless specified otherwise, S4S, moisture content 19% or less in accordance with following standards:
 - .1 CAN/CSA-O141-91 (1999).
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
 - .3 AWMAC custom grade, moisture content as specified.
- .2 Machine stress-rated lumber is acceptable for all purposes.
- .3 Hardwood lumber: moisture content 19 % or less in accordance with following standards:
 - .1 National Hardwood Lumber Association (NHLA).
 - .2 AWMAC custom grade, moisture content as specified.

1.5 Accessories

- .4 Nails and staples: to CSA B111-1974 (R1998); galvanized to CAN/CSA-G164-M92 (R1998) for exterior work, interior humid areas and for treated lumber; plain finish elsewhere.
- .5 Wood screws: to CSA B35.4-72 plain, type and size to suit application.
- .6 Splines: wood.
- .7 Adhesive: recommended by manufacturer.
- .8 Use least toxic sealants, adhesives, sealers, and finishes necessary to comply with requirements of this section.

3. EXECUTION

1.6 Installation

- .1 Do finish carpentry to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), except where specified otherwise.
- .2 Scribe and cut as required, fit to abutting walls, and surfaces, fit properly into recesses and to accommodate piping, columns, fixtures, outlets, or other projecting, intersecting or penetrating objects.
- .3 Form joints to conceal shrinkage.

1.7 Construction

.4 Fastening:

- .1 Position items of finished carpentry work accurately, level, plumb, true and fasten or anchor securely.
- .2 Design and select fasteners to suit size and nature of components being joined. Use proprietary devices as recommended by manufacturer.
- .3 Set finishing nails to receive filler. Where screws are used to secure members, countersink screw in round cleanly cut hole and plug with wood plug to match material being secured.
- .4 Replace items of finish carpentry with damage to wood surfaces including hammer and other bruises.

.5 Standing and running trim:

- .1 Butt and cope internal joints of baseboards to make snug, tight joints. Cut right angle joints of casing and base with mitred joints.
- .2 Fit backs of baseboards and casing snugly to wall surfaces to eliminate cracks at junction of base and casing with walls.
- .3 Make joints in baseboard, where necessary using a 45° scarfe type joint.
- .4 Install door and window trim in single lengths without splicing.

.6 Interior and exterior frames:

.1 Set frames with plumb sides and level heads and sills and secure.

1.8 Schedules

- .1 Standing and running trim:
 - .1 Interior baseboard, door and window casings:
 - Grade: B or better.
 - .2 Solid stock: birch species.

- .2 Construction to AWMAC Details.
 - .1 Profile: S4S and stop, mn 19 mm thickness.
 - .2 Corner: Rabbet.
 - .3 Casings: to match door and window casings.

CABINETS

1. GENERAL

1.1 Section Includes

- .1 Cabinets and countertops, trim, attachment accessories.
- .2 Finish hardware.
- .3 Related Sections
- .4 Section 09900 Painting.

1.2 References

 AWMAC (Architectural Woodwork Manufacturers Association of Canada) – Quality Standards.

1.3 Submittals for Review

- .1 Section 01300: Submission procedures.
- .2 Shop drawings: Indicate materials, component profiles, fastening methods, jointing details, finishes.

1.4 Quality Assurance

- .1 Perform Work in accordance with AWMAC Custom Quality.
- .2 Manufacturers Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- .3 Conform to applicable regulatory requirements for fire retardant requirements.

1.5 Delivery, Storage, and Protection

Protect surfaces with wrapping.

2. PRODUCTS

2.1 Materials

- .1 Softwood lumber: AWMAC Economy grade; maximum moisture content of 6 percent, White Birch species.
- .2 Softwood Plywood: APA grade; core materials of veneer or lumber; Fir species.
- .3 Plastic Laminate: NEMA LD-3, 1.3 mm General Purpose; colour, pattern, and surface finish as selected by Consultant.

CABINETS

- .4 Plastic Laminate Backing: NEMA LD-3, high pressure paper base laminate without a decorative finish; 0.5 mm thick, smooth surface finish.
- .5 Melamine Interiors: Plastic laminate, thin application, up to 3 colours, no open and matte surface texture as selected.

2.2 Accessories

- .1 Contact Adhesives: Water base type in accordance with Ecologo Environmental Choice Program.
- .2 Bolts, Nuts, Washers, Blind fasteners, Lags, and Screws: Size and type to suit application; plain finish.
- .3 Primer: MPI Level 3 VOC level latex type.
- .4 Plastic Edge Trim: Extruded convex shaped; smooth finish; self-locking serrated tongue; of width to match wood thickness; same colour as exposed finish.

2.3 Hardware

- .1 Shelf Standards, Brackets, and Rests: Manufactured by Knape & Vogt 255 (econo-zinc).
- .2 Drawer and Door Pulls: Chrome, solid steel type, 13 mm diameter rod, center to center of legs 89 mm manufactured by Richelieu 491 colour 195.
- .3 Catches: Magnetic, similar to Knape & Vogt 916, bright aluminum.
- .4 Drawer Slides: similar to Knape & Vogt 8400, zinc coated steel, full extension, rated for 100 pound load.
- .5 Hinges: Steel, chrome finish, invisible, retracting, flush type, manufactured by Blum concealed compact 33, self-closing, full overlay, cup T42 screw-on steel nickel plated, full overlay.
- .6 Cabinet door/drawer locks: similar to Corbin 0266 (finish C26D) c/w bar strike 10-051. Trim colour (36-031). Throw: 25 mm to be combined with surface bolt. Located on all cabinet doors.
- .7 Cabinet door surface bolt: similar to Hager HA 1281 in chrome or bright aluminum finish, c/w flush rim keeper. Mount keeper and surface bolt at bottom of door. Installed in combination with cabinet door locks.
- .8 Shelf rests: similar to Knape & Vogt 256R (zinc).

2.4 Fabrication

.1 Fabricate cabinets to AWMAC "Custom" Quality.

CABINETS

.2 Line inside of cabinets with Melamine.

2.5 Shop finishing

.1 Shop finish work to AWMAC plastic laminate, factory finish.

3. EXECUTION

3.1 Examination

- .1 Section 01600: Verification of existing conditions before starting work.
- .2 Verify openings and adjoining materials are ready to receive work of this section.

3.2 Installation

- .1 Install work in accordance with AWMAC Custom Quality standard.
- .2 Set and secure materials and components in place, plumb and level.
- .3 Install components and trim, with screws and bolts with blind fasteners.
- .4 Cover exposed edges of shelving and site made casework with plastic edging. Width of edging to match shelving.
- .5 Apply plastic laminate finishes where indicated.
 - .1 Cap exposed edges with plastic laminate of same finish and pattern.
 - .2 Apply laminate backing sheet on reverse side of plastic laminate finished surfaces.

3.3 Adjusting

Adjusting doors and drawers for smooth operation.

3.4 Cleaning

- .1 Wash down surfaces:
 - .1 With a solution of mild detergent in warm water,
 - .2 Applied with soft, clean wiping cloths,
 - .3 Take care to remove dirt from corners, and
 - .4 Wipe surfaces clean.

DIVISION 7 THERMAL & MOISTURE PROTECTION

TABLE OF CONTENTS

DIVISION 7 - THERMAL & MOISTURE PROTECTION

Section No.	Description
07190	Air/Vapour Barriers
07212	Board Insulation
07465	Performed Metal Cladding/Siding
07610	Sheet Metal Roofing
07620	Sheet Metal Flashing and Trim
07840	Fire Stopping
07900	Joint Sealers

1. GENERAL

1.1 General Requirements

.1 All requirements of the Contract apply to and govern all work of this Section

1.2 Related Work

- .1 Section 06100 Rough Carpentry.
- .2 Section 07200 Insulation.
- .3 Section 07465 Preformed Metal Cladding/Siding.
- .4 Sheet Metal Roofing.

1.3 Standards Referred To

- .1 CAN/CGSB-51.33-M80 Vapour Barrier
- .2 CAN/CGSSB-51.34-M86, Vapour Barrier, Polyethylene Sheet, for Use in Building Construction.
- .3 CGSB 37-GP-9Ma, asphalt primer.
- .4 CSA B111; galvanized steel nails, minimum 12 mm long, large head.
- .5 CRCA "Manual on Good Roofing Practice" latest edition.

1.4 Quality Assurance and Extended Guarantees

No specific requirements.

1.5 Special Handling and Transportation Requirements

No specific requirements.

1.6 Submittals

- .1 Shop drawings: Not required.
- .2 Samples: Not required

1.7 Maintenance Data and Materials

.1 None required.

1.8 Special Environmental Requirements

- .1 Maintain rolls at a temperature of not less than 5°C until application.
- .2 Do not apply membrane during conditions of rain, snow or other precipitation.

1.9 Special Protection Requirements

No specific requirements.

2. PRODUCTS

2.1 Vapour Barrier Walls

Self adhesive membrane composed of SBS modified bitumen and a polyethylene woven complex on the top surface. Acceptable product: Sopraseal Stick 1100 T manufactured by Soprema.

2.2 Vapour Barrier Roof

.1 Self adhesive membrane composed of a non-woven polyester reinforcement and elastomere bitumen. Acceptable product: Sopravap'r by Soprema.

2.3 Weather Barrier

.1 Acceptable material: TYVEK commercial wrap by Dupont.

2.4 Accessories

.1 Prime surfaces to receive vapour barrier with Elastocol Stick primer by Soprema.

3. EXECUTION

3.1 Installation

- .1 Coordinate installation with Section 06101.
- .2 Install 100 mm wide strips of flexible membrane on all corner joints of interior metal liner at exterior wall, exterior wall and roof penetrations and as indicated to form a continuous barrier. Clean primer, to substrate as required according to manufacturer's instructions.
- .3 All penetrations through interior metal liner, unless clearly indicated on Drawings and so installed must be approved by Consultant.
- .4 Inspect joint strips for continuity. Repair punctures and tears before work is concealed.

3.2 Electrical and Mechanical Penetrations

- .1 Where electrical or mechanical elements penetrate the interior metal liner, seal flexible membrane to liner panel and lap to electrical or mechanical element.
- .2 Provide effective seals within conduit between the inside and outside at the penetration.

3.3 Inspection

.1 Inspect entire installation and repair or replace damaged materials upon completion. Do not cover up any area or job mock-up until Consultant has inspected and accepted installation of air/vapour barriers. Provide Consultant with five days notice to arrange inspections of the air/vapour barrier installations.

3.4 Air/Vapour Barrier

- .1 Ensure all roof penetrations are in place before air/vapour barrier is applied.
- .2 Touch up pre-primed sheathing in accordance with manufacturer's directions to solid black colour.
- .3 Over primed plywood deck install torch on air/vapour barrier membrane.
- .4 Installed vapour barrier shall be torched on to form a complete and continuous membrane over the roof and wall connection, sealed at all joints and penetrations. Seal all roof penetrations with double layer of membrane.
- .5 Sequence wall and roof air/vapour barrier installation as indicated to ensure positive air seal at junctions.
- Apply air/vapour barrier material parallel to roof slope. Make laps so that flow of water is over them and never against them. Reinforce peaks and valleys in roof to membrane manufacturer's recommendation. At wall/roof junction lap and seal polyethylene sheet vapour barrier with torch on roof vapour barrier to ensuring continuous seal.

3.5 Roof Insulation

- .1 Install insulation in two layers.
- .2 Install first level of insulation shiplapped edged, running with roof slope and adhere with insulation base layer fasteners and/or SBS modified mastic sufficient to secure until subsequent layers of insulation and Z-girts are installed. Fill all voids with spray foam insulation.
- .3 Install Z-girts screw fastened at 600 mm o.c. through to wood deck, perpendicular to roof slope.
- .4 Remove any fasteners which penetrate exposed wood deck.

.5 Install second layer of butt edged insulation butting boards tight to Z-girts and to each other so that no gaps or voids exist. Fill all voids with spray foam insulation.

3.6 Weather Barrier

- .1 Over roof insulation, install weather barrier. Use tape as recommended by Weather Barrier manufacturer to seal joints.
- .2 Over Weather Barrier install sheet metal roofing.
- .3 Use only tradesmen who are experienced in this work.

BOARD INSULATION

1. GENERAL

1.1 References

- .1 American Society for Testing and Materials (ASTM)
 - ASTM E 96, Test Methods for Water Vapour Transmission of Materials.
 - .2 ASTM C 591, Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation.
 - .3 ASTM C 1126, Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation.
 - .4 ASTM C 1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- .2 Canadian General Standards Board (CGSB)
 - .1 CGSB 71-GP-24M, Adhesive, Flexible, for Bonding Cellular Polystyrene Insulation.
- .3 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC-S702, Thermal Insulation, Mineral Fibre, for Buildings.

2. PRODUCTS

2.1 Insulation

- .1 Batt insulation: Fibreglass batt insulation friction fit, R15.
- .2 Foundation Wall application: Extruded polystyrene insulation, type 4, thermal resistance valve 0.87 per 25 mm (R5 per inch) thickness as noted. Square edges.
 - .1 Acceptable material: Styrofoam SM by Dow Chemical Canada.
- .3 Roof application: Extruded polystyrene insulation: thermal resistance valve 0.87 per 25 mm (R5 per inch) thickness as noted. Square edges.
 - .1 Acceptable material: Styrofoam SM by Dow Chemical Canada.
- .4 Under slab application: 2 layers extruded polystyrene closed cell insulation. Total thickness 100 mm (4") for R value of 20.
 - .1 Acceptable material: Styrofoam Highload 40 by Dow Chemical Canada.

BOARD INSULATION

2.2 Accessories

- .1 Fasteners: of same material as sheet steel metal and according to manufacturers standard system, suitable for sheet metal roofing application.
- .2 Touch-up paint: as recommended by sheet metal roofing manufacture.

2.3 Fabrication

.1 Insulation clips: impale type, perforated 50 x 50 mm cold rolled carbon steel 1.3 mm thick, adhesive back, spindle of 2.5 mm diameter annealed steel, length to suit insulation, 25 mm diameter washers of self locking type

3. EXECUTION

3.1 Workmanship

- Install insulation after building substrate materials are dry.
- .2 Install insulation to maintain continuity of thermal protection to building elements and spaces.
- .3 Fit insulation tight around electrical boxes, plumbing and heating pipes and ducts, around exterior doors and windows and other protrusions.
- .4 Keep insulation minimum 75 mm from heat emitting devices such as recessed light fixtures, and minimum 50 mm from sidewalls if CAN4-S604 type A chimneys.
- .5 Cut and trim insulation neatly to fit spaces. Butt joints tightly, offset vertical joints. Use only insulation boards free from chipped or broken edges. Use largest possible dimension ns to reduce number of joints.
- .6 Offset both vertical and horizontal joints in multiple layer applications.
- .7 Do not enclose insulation until it has been inspected and approved by Engineer.

3.2 Examination

- .1 Examine substrates and immediately inform Engineer in writing of defects.
- .2 Prior to commencement of work ensure:
 - .1 Substrates are firm, straight, smooth, dry, free of snow, ice or frost, and clean of dust and debris.

BOARD INSULATION

3.3 Perimeter Foundation Insulation

- .1 Interior application: extend boards vertically below bottom of finish floor slab as indicated.
- .2 Under slab application: As indicated. Lay boards on level compacted fill.

PREFORMED METAL CLADDING/SIDING

1. **GENERAL**

1.1 Related Sections

- Section 07900 Joint Sealers. .1
- Section 09900 Exterior Painting. .2

1.2 References

- American National Standards Institute (ANSI) .1
 - ANSI B18.6.4-1981(R1991), Screws, Tapping and Metallic Drive, Inch Series, .1 Thread Forming and Cutting.
- Canadian General Standards Board (CGSB) .2
 - .1 CAN/CGSB-93.4-92, Galvanized Steel and Aluminum-Zinc Alloy Coated Steel Siding Soffits and Fascia, Prefinished, Residential.
 - .2 CAN/CGSB-93.5-92, Installation of Metal Residential Siding, Soffits and Fascia.
- .3 Canadian Standards Association (CSA)
 - CSA B111-1974 (R1998), Wire Nails, Spikes and Staples. .1

Shop Drawings 1.3

- Submit shop drawings in accordance with Section 01300 Submittals. .1
- Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and .2 closure pieces, fascia, metal furring, and related work.

2. PRODUCTS

Steel Cladding and Components 2.1

- .1 Exterior vertical metal siding to CAN/CGSB-93.4-92: Type 1
 - Finish coating: Class FIS. .1
 - .2 Colour: from manufacturer's standard color range as shown on drawings.
 - .3 Gloss: medium.
 - Thickness: siding material: minimum 0.61 mm (24 gauge) .4
 - Profile: Vertical ribbed

PREFORMED METAL CLADDING/SIDING

- .6 Acceptable product: based on VicWest Model # CL725.
- .2 Fascia facings and exposed trim: to CAN/CGSB-93.4-92, Class plain:
 - .1 Finish coating: Series 10000.
 - .2 Colour: as shown on drawings, colour selected by Engineer from manufacturer's standard range.
 - .3 Gloss: medium.
 - .4 Thickness: 0.61 mm (24 gauge) base metal thickness.
 - .5 Profile: indicated.
- .3 Interior metal linder: 0.5mm (26 gauge) based on Robertson Durarib liner panel.

2.2 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.

2.3 Fasteners

 Nails: to CSA B111-1974 (R1998). Screws to ANSI B18.6.4-1981(R1991). Purpose made aluminum alloy.

2.4 Caulking

.1 Sealants: See Section 07900.

3. EXECUTION

3.1 Installation

- .1 Install cladding in accordance with CAN/CGSB-93.5-92, 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.

PREFORMED METAL CLADDING/SIDING

- Attach components in manner not restricting thermal movement. .6
- Caulk junctions with adjoining work with sealant. Do work in accordance with Section 07900 - Joint Sealers.

SHEET METAL ROOFING

1. GENERAL

1.1 RELATED WORK

- .1 Section 06100 Rough Carpentry.
- .2 Section 07465 Preformed Metal Wall Cladding/Siding.
- .3 Section 07520 Wall and Roof Assemblies.

1.2 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01300 Submittals.
- .2 Indicate arrangements of sheets and joints, types and locations of fasteners and special shapes and relationship of panels to structural frame.

2. PRODUCTS

2.1 Sheet Metal Materials

.1 Galvanized steel sheet: 0.61 mm thickness, commercial quality, to ASTM A 525M-91b, or ASTM A 446/A 446M-93 446M-93 Grade A.

2.2 Prefinished Steel Sheet

- .1 Prefinished steel with factory applied silicone modified polyester.
 - .1 Finish: Series 10000.
 - .2 Colour: as shown on drawings selected by Engineer from manufacturer's standard range.
 - .3 Gloss: medium.
 - .4 Thickness: 0.61 mm.
 - .5 Profile: Vicwest.
- .2 Panel Widths: as recommended by manufacturer.

2.3 Accessories

- .1 Fasteners: of same material as sheet steel metal and according to manufacturers standard system, suitable for sheet metal roofing application.
- .2 Touch-up paint: as recommended by sheet metal roofing manufacture.

SHEET METAL ROOFING

2.4 Fabrication

- .1 Form individual pieces in continuous lengths from eave to ridge. Make allowances for expansion at joints.
- .2 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.

3. EXECUTION

3.1 Installation

- .1 Use screw type fastenings except where approved by Engineer before installation.
- .2 Install sheet metal roof panels using screw fasteners spaced at 150 mm oc.
- .3 Flash roof penetrations with material matching roof panels, and make watertight.
- .4 Form seams in direction of water-flow and make watertight.
- .5 Apply sheet metal roofing beginning at ridge and continuous in one piece to eave all according to manufacturers written instructions.

SHEET METAL FLASHING AND TRIM

1. GENERAL

1.1 Related Sections

- Section 03300 Cast-in-Place Concrete.
- .2 Section 06100 Rough Carpentry.
- .3 Section 07520 Wall and Roof Assemblies.
- .4 Section 07610 Sheet Metal Roofing.

SECTION 09900 – PAINTING.

2.1 References

- Aluminum Association.
 - .1 Aluminum Sheet Metal Work in Building Construction 1980.
 - Designation System for Aluminum Finishes 1980.
- .2 American Society for Testing and Materials (ASTM).
 - .1 ASTM A 167-99, Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM A 591/A 591M-98 591 M-89(1994), Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
 - .3 ASTM A 606-01, Specification for Steel, Sheet and Strip, High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, with Improved Atmospheric Corrosion Resistance.
 - .4 ASTM A 792/A 792M-02 792M-95, Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
- .3 Canadian Roofing Contractors Association (CRCA).
 - Roofing Specifications Manual.
- .4 Canadian Standards Association (CSA)
 - .1 CSA B111-1974 (R1998), Wire Nails, Spikes and Staples.

SHEET METAL FLASHING AND TRIM

- .5 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
 - .2 CAN/CGSB-51.32-M77, Sheathing, Membrane, Breather Type.

2.2 Samples

.1 Submit shop drawings in accordance with Section 01330 – Submittal Procedures.

3. PRODUCTS

3.1 Sheet Metal Materials

.1 Zinc coated steel sheet: 0.55 mm (26 gauge) thickness, commercial quality to ASTM A 653/A 653M-02a 653M, with Z275 designation zinc coating.

3.2 Accessories

- .1 Plastic cement: to CAN/CGSB-37.5-M89
- .2 Underlay for metal flashing: dry sheathing to CAN/CGSB-51.32-M77.
- .3 Sealants: 07900.
- .4 Cleats: of same material, and temper as sheet metal, minimum 50 mm wide. Thickness same as sheet metal being secured.
- .5 Fasteners: of same material as sheet metal, to CSA B111-1974 (R1998), ring thread flat head roofing nails of length and thickness suitable for metal flashing application.
- .6 Washers: of same material as sheet metal, 1 mm thick with rubber packings.

3.3 Fabrication

- .1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details as indicated.
- .2 Fabricate aluminum flashings and other sheet aluminum work in accordance with Aluminum Association Aluminum Sheet Metal Work in Building Construction.
- .3 Form pieces in 2400 mm maximum lengths. Make allowance for expansion at joints.
- .4 Hem exposed edges on underside 12 mm. Miter 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.

SHEET METAL FLASHING AND TRIM

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

3.4 Metal Flashings

.1 Form flashings, copings and fascias to profiles indicated of 0.55 mm thick prefinished steel.

4. EXECUTION

4.1 Installation

- .1 Use concealed fastenings except where approved before installation.
- .2 Provide underlay under sheet metal. Secure in place and lap joints 100 mm.
- .3 Lock end joints and caulk with sealant.
- .4 Caulk flashing at cap flashing with sealant.
- .5 Install pans, where shown around items projecting through roof membrane.