PART 1 – GENERAL

1.01 Scope of Work

A. Furnish all necessary labor, material and equipment for complete installation of Kaycan Aluminum Urbanix Siding & Soffit and related work as shown on drawings or specified herein.

1.02 Submittals

A. Submit samples of siding design, size and color for approval.
B. Product data: Manufacturer's standard printed product data and installation instruction for specified products.
C. Selection samples: Submit color chips of manufacturer's full range of colors for Architects selection.
D. Verification samples: Submit three samples, each 12 inch in length, of each specified aluminum product in the specified color.

1.03 Delivery, Storage and Handling

A. Siding/soffit is packed in cardboard cartons identified with stickers bearing the manufacture's name, product name, product code, number of pieces, size, and date of manufacture.
B. Prior to application, Urbanix siding, soffit and accessories are to be stored in an area that is clean, dry and out of direct sunlight
C. Handle material in a manner to prevent damage.
Do not allow siding/soffit material to crease.

1.04 Warranty

A. Upon completion provide a written 40-year pro-rated and transferable Limited Warranty.

PART 2 – PRODUCTS

2.01 Manufacturer

A. Materials to be supplied by Kaycan Ltd., www.kaycan.com
B. Substitutions not permitted.

2.02 Materials

A. Urbanix Aluminum siding & soffit shall be made of 3105 aluminum sheet or equivalent, meeting the specifications set forth in The Aluminum Standards,published by The Aluminum Association; having a minimum tensile strength of 29,000 psi,
and a minimum yield strength of 28,000 psi.

B. Kaycan Urbanix siding panels are designed for use in residential and light commercial applications with elevations up to 40' (12.19 m).
For applications of a different nature, contact Kaycan for further details and information concerning suitability.

C. Urbanix siding panels shall have interlocking horizontal edges, 3/8" (9.525 mm) butt. Elongated nailing slots shall be provided on approximately 1-1/2" (38.1 mm) centers in the nail hem of all panels to permit proper expansion and contraction on the wall. The nail hem and bottom lock of all panels shall be notched on both ends to provide for the proper overlapping of adjacent panels.

PART 2 – PRODUCTS (continued)

D. Surface treatment:

1. The surface of the Kaycan Aluminum Urbanix sheet is commercially free of streaks, blistering and other imperfections.
The aluminum sheet is thoroughly cleaned dried and coated with a Pretreatment Oxide coating to assure maximum paint adhesion.

2. Kaycan aluminum Urbanix Woodtone is a "3 coat system". A thermosetting polyester basecoat is roller applied and baked at a high temperature for increased performance, followed by a fluoropolymer ink and thermosetting polyester clear coat to ensure durability. Kaycan Urbanix Solid Color is a two coat system. A thermosetting primer (base coat) is roller applied and baked at high temperatures, followed by a thermosetting polyester which is roll coated.

3. Color is controlled per ASTM D-1729-64, by approved color difference meter and by visual match standards in a Macbeth Booth.

4. Specular gloss is determined per ASTM D523-62 at a gloss meter angle of 60 degrees.

5. Pencil hardness is equal to Eagle Turquoise HB minimum pencil per NCAA Technical Bulletin 11-12.

6. Cure Test per NCAA Technical Bulletin 11-18 and able to withstand 100 double rubs of M.E.K. using cheese cloth mesh size 28x24.

7. Humidity resistance test as per ASTM D-2247-87 and having no blistering, cracking, peeling loss or softening of the finish after 1,000 hours of exposure to 100% humidity at 100 degrees F ±5 degrees.

8. Salt spray resistance samples diagonally scored and subjected to a neutral salt solution spray per ASTM B-117, then taped with Scotch #610 cellophane tape or equivalent for 100 hours over aluminum: no blistering and no loss of adhesions greater than 1/32" from score line.

9. Accelerated weathering has no cracking, blistering or adhesion loss of external coating system and no chalking greater than #8 rating per ASTM D-659 test procedure noted after 800 hours QUV testing by ASTM D-53 procedure.

E. Siding Dimensions and Description:

Urbanix siding may be installed horizontally or vertically:
Single 6 wide profile, 6 inch wide exposure configured as one 6 in. panel, 12ft- length.

F. Soffit Dimensions and Description:

Urbanix Vented soffit: 6 inch profile soffit panel, exposure ,12ft length. Panel is aerated (lanced) every 1.3" allowing for a net ventilation of 6.6sq/inches per sq foot of net air.

G. Fire Resistance Properties CAN/ULC-S102, meets CAN/ULC-S114-05

Flame Spread: 11
Smoke Density: less than 5
Ignition Properties: Self ignition did not occur. When ignited with a fire, after 15 seconds continued to burn for 2 feet (.6 m) for one minute and then extinguished. Kaycan aluminum does not support combustion.

2.01 Accessories:

A. Accessories shall be consistent with the shape, size and properties as shown in the drawing and as required for complete installation. Color shall be matched or color coordinated to the siding according the architect's specifications.
Accessories shall be produced from the same materials and with comparable properties as the siding.

2.02 Fasteners:

A. Aluminum or stainless steel nails, as recommended by manufacturer for specific application shall be used to install the siding.

PART 3 – EXECUTION

3.01 Examination

A. Confirm that all critical dimensions are as specified in the drawings.

B. Commencement of siding installation implies acceptance of the substrate as suitable to accept siding.

3.02 Preparation

A. Any substrate flaws or defects must be repaired, and free from obstructions before the aluminum siding is applied.

3.03 Installation

A. Solid sheathing and a weather resistive barrier shall be provided behind the siding, as required by the applicable code.

B. Siding is installed with nails driven into furring strips or wall studs spaced not more than 16 in. on center. The siding fasteners are aluminum or stainless.

C. Nails shall be long enough to penetrate the nailing base by at least ¾ of an in.

D. The aluminum siding and accessories shall be installed in accordance with the best practice. Nails shall be centered in the siding nail slots with a minimum 1/16 in. clearance between the back of the nail head and the face of the siding. Nails shall be driven perpendicular to the substrate.

E. Joints between horizontal panels shall be overlapped a minimum of 1/2 in. to a maximum 3/4”, with all joint members plumb and true.

3.04 Field Quality Control

A. After installation of siding check entire surface for obvious flaws or defects. Replace and repair any problem areas.

3.05 Cleaning

A. After the aluminum siding has been applied, clean as necessary to remove all fingerprints and soiled areas.

B. Clean and remove all scrap, packaging and unused materials resulting from the installation of aluminum products.