SECTION 07 76 00
COMPOSITE PAVER ROOFTOP AND BALCONY

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ign professional. It is in the property owner's interest to consult with these professionals prior to executing the specified project. The property owner will ultimately assume the entire risk as to results, quality, and performance of the system specified.

PART 1 – GENERAL

The project, Project Name located in City, State, includes the provision of Aspire Composite Roof Pavers.

1.1 SUMMARY

A. A Composite Roof Paver System consisting of:
   1. Aspire Resurfacing Pavers, colors and sizes selected by the designer and indicated below, set on a 16" x 16" grid in the pattern(s) indicated below.
   2. Aspire Resurfacing Accessory Pavers, color(s) selected by the designer and indicated below, including any of the following selected by
      the designer:
      i. Bullnose Paver with Tabs
      ii. Elongated Bullnose with Legs
      iii. Transition Paver with Tabs
      iv. Transition Paver with Legs
   3. Aspire Drain Mat installed under the composite roof paver assembly to facilitate drainage and provide added protection of the waterproofing membrane.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM).
B. Canadian Standards Association (CSA).
C. Underwriters Laboratories (UL).

1.3 GENERAL CONDITIONS

A. As specified in Section_____.

1.4 SUBMITTALS

A. Product Data: Include manufacturer's Product Data Sheets.

B. Shop Drawings: Include drawings showing layouts, sizes, sections, profiles, and any other applicable details for the Composite Roof Paver System.
C. Samples – For the following products:
    1. Aspire Resurfacing Pavers, one of each selected color, set on a 16" x 16" grid.
    2. Aspire Resurfacing Accessory Pavers, one of each selected color.
    3. Aspire Drain Mat, 6" x 6" sample.
D. Manufacturer's Installation Instructions: Include manufacturer's installation instructions, noting any special procedures and/or conditions requiring special attention.
E. Paver Installation Subcontractor:
    1. Verification of receiving installation training from Aspire Composite Pavers.
    2. Job references from projects of a similar size and complexity. Provide Owner/ Client/General Contractor names, postal address, phone, fax, and email address.

1.5 QUALITY ASSURANCE

A. Provide products that are free of cracks, seams, and defects impairing appearance, structural integrity, or function.
B. The contractor shall conform to all local, state licensing and bonding requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site in original packages.
B. Store materials in a clean, dry location.

1.7 FIELD CONDITIONS

A. Roofing system installation must be complete at the area where the Composite Roof Paver System are to be installed.

1.8 WARRANTY

A. The Composite Roof Paver System shall include a 10-Year Limited Warranty.

PART 2 - PRODUCTS

2.1 Aspire Composite Roof Paver System

A. Supplied by: Aspire by Brava, Washington, IA, www.aspirepavers.com.
B. Aspire Resurfacing Pavers,
    1. Colors: Boardwalk, Olive, Redwood, Waterwheel, Obsidian, Charcoal, Ivory, Deep Sea, Monstera, Moss, Burnt Umber, Red Rock, and Beverly Hills
    2. Paver Thickness: 1.25" without Grid (1.75" when on Grid)

3. Pavers sizes: 4.0" x 4.0", 4.0" x 8.0", 8.0" x 8.0", 16” x 16”

C. Grid Dimension: 16" x 16" x 1” that adds 0.50" to the total system height. Total grid with paver height (before drain sheet) is 1.75".

D. Aspire Resurfacing Roof Pavers with Grid must meet the following required technical specifications:
   1. Weight: Minimum 11.2 lbs. per Grid with Pavers
   2. Coverage: 1.78 ft^2 per Grid with Pavers.
   3. Water Absorption: <4.1% when tested in accordance with ASTM C-67 Section 8.
   4. Recycled Content: up to 95% postconsumer recycled content.
   5. Compressive Strength: >3500psi, per ASTM C140-09 Section 7.
   6. Flexural Modulus: Minimum 3800psi.
   7. Coefficient of Friction: Dry (static) 0.83, Wet (static) 0.47; per ASTM C1028-07 (Neolite pad).
   8. Fire Classification: Class A per ASTM E108-007
   9. Chemical Resistance: No dulling, surface change, or surface attack per ASTM F925.
   10. Freeze-Thaw Cycling: PASS per ASTM C67 Section 9.

C. Aspire Resurfacing Accessory Pavers
   1. Bullnose Paver with Tabs, 4"x8"x1.25"
      a. Used to finish system edges.
   2. Elongated Bullnose with Legs 4"x9"x1.25"
      a. Used to finish system edges.
   3. Transition Paver, 8"x7.1"x1.25"
      a. Used to finish system edges.

D. Aspire Drain Mat
   1. Thickness: 0.26".
   2. Outer Fabric: Grey 100 gsm Colback fabrics
   3. Inner Core: Polypropylene.
   4. Roll Size: 39” x 61.5’ (200 sq ft).
   5. Maximum Flow Capacity: 16gpm at 500 psi

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.
B. Verify that the roof membrane installation is completed.
C. Verify that all identified defects in the roof membrane have been repaired to the satisfaction of the roof membrane manufacturer prior to installation of the Paver system.
D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

A. All substrates must be clean, dry, smooth, free of sharp edges, fines, loose, or foreign materials, oil, grease, and other materials which may damage the roofing membrane, prior to installation.

3.3 INSTALLATION

A. Unroll the Aspire Drain Mat so that the bottom of the drain mat lays directly over the roofing membrane, and the length of the Drain Mat runs with the slope of the roof. Drain Mat sections should be butted together, and the flaps adhered using adhesive to keep the sections from separating. Cut the Drain Mat to fit the area to be covered by Aspire Resurfacing Pavers, and around any protrusions (a box cutter may be used).
B. Begin laying grids starting from one corner. Leave a minimum 1/2" gap from all walls and other vertical surfaces to allow for thermal expansion and contraction. Lay out at least 10 grids to allow for sufficient room to work. Offset seams of the grids with seams of the Drain Mat for best results.
C. Grids can be cut to fit using a miter saw or jig saw. If the ending grid is less than 4", cut off 4" or 8" of the grid before it, so the ending grids can be longer and will connect with overlapping pavers.
D. Lay pavers using chosen pattern (herringbone, basket weave, running bond, etc.), mixing different colors if desired. Pavers should connect grids in both directions by one paver laying on two grids. Continue laying out grids and pavers until all full pavers are installed.
E. Field cutting of pavers: Use a miter saw or jig saw. Install cut pavers last.
F. Adhering Pavers to Grid:
    a. Recommended adhesive is Lexel Sealant (Sashco product). Also approved is Titebond ProVantage Landscape Adhesive.
    b. All Bullnose and Transition Pavers should be adhered to the grid.
    c. In high wind locations, all pavers should be adhered to the grid to mitigate wind uplift.
    d. Adhesive should be used whenever pavers have been cut.
    e. To adhere pavers to the grid, place a 1/8" bead across the top ribs of the grid, set the paver in place and press firmly, leaving the paver in place for the duration of the adhesive cure time.

3.4 PROTECTION AND CLEANING

A. Do not permit foot or vehicular traffic on unprotected membrane or on adhered pavers during adhesive cure time.
B. Protect roofing membrane from damage and wear during the remainder of the construction period.
C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by the manufacturer of the affected construction.
D. Do not sweep sand into paver joints.

END OF SECTION