

SECTION 32 14 13.16
CONCRETE PAVING SLABS ON PEDESTALS FOR PEDESTRAIN ROOF PLAZA DECKS
(1995 MasterFormat Section 02784)

PART 1 GENERAL

1.01 SUMMARY

- A) Section Includes:
 - 1) Concrete paving slabs with pedestals.
 - 2) Cleaning and sealing paver slabs.
- B) Related Work.
 - 1) Section [] – Membrane Roofing
 - 2) Section [] – Roof Drains
 - 3) Section [] – Roof Accessories
 - 4) Section [] – Roof and Deck Insulation
 - 5) Section [] – Sheet Metal Flashing and Trim

1.02 REFERENCES

- A) Canadian Standards Association (CSA)
 - 1) A231.1, Precast Concrete Paving Slabs.
- B) Interlocking Concrete Pavement Institute (ICPI)
 - 1) Tech Spec Technical Bulletins

1.03 SUBMITTALS

- A) Shop drawings: Indicate perimeter conditions, relationship to adjoining materials and assemblies, expansion and control joints, paving slab layout, patterns, color, arrangement, installation and setting details.
- B) Paving slabs:
 - 1) Four representative full-size samples of each slab type, thickness, color, finish. Select samples to indicate the extremes of color and texture expected in the finished installation.
 - 2) Accepted samples become the standard of acceptance for the work in this Section.
 - 3) Manufacturer's catalog literature and material safety data sheets for the safe handling of the specified materials and products.

1.04 QUALITY ASSURANCE

- A) Paving Subcontractor Qualifications:
 - 1) Utilize an installer having successfully completed concrete paving slab installation similar in design, material, and extent indicated on this project.
- B) Regulatory Requirements and Approvals: [Specify applicable licensing, bonding or other requirements of regulatory agencies.]
- C) Mock-Ups:
 - 1) Install a 7 ft x 7 ft (2 x 2 m) area.
 - 2) Use this area to determine pedestal height and shimming requirements, joint sizes, lines, laying pattern(s), color(s), and texture of the job.
 - 3) This area will be used as the standard by which the work will be judged.
 - 4) Subject to acceptance by owner, mock-up may be retained as part of finished work.
 - 5) If mock-up is not retained, remove and properly dispose of mock-up.

1.05 DELIVERY, STORAGE & HANDLING

- A) General: Comply with Division 1 Product Requirement Section.

- B) Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C) Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers packaging with identification labels intact.
 - 1) Coordinate delivery and paving schedule to minimize interference with normal use of buildings adjacent to paving.
 - 2) Deliver concrete paving slabs to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by forklift or clamp lift.
 - 3) Unload slabs at job site in such a manner that no damage occurs to the product.
- D) Storage and Protection: Store materials protected such that they are kept free from mud, dirt, and other foreign materials.
- E) Store concrete paving slab cleaners and sealers per manufacturer's instructions.

1.06 PROJECT/SITE CONDITIONS

- A) Environmental Requirements:
 - 1) Do not install pedestals and slabs during heavy rain or snowfall.

1.07 MAINTENANCE

- A) Extra Materials: Provide [specify area or percentage.] additional material for use by owner for maintenance and repair including pedestals.

PART 2 PRODUCTS

2.01 CONCRETE PAVING SLABS

- A) Manufacturer: StoneBilt Concepts, Henderson, Colorado
 - 1) Contact: Gregory Stavaridis, 303-867-6700
- B) Concrete Paving Slabs:
 - 1) Travertine (Light and/or Dark)
 - 2) Sandstone (Light Buff, Dark Buff and/or Rustic Red)
 - 3) Slate (Bluestone and/or Smoke)
 - 4) Old World (Limestone and/or Raven)
 - 5) Classic (Pewter, Brick Red and/or Buff)
- C) Size:
 - 1) 1.75 in. thick.
 - 2) Available sizes as follows:

	12" x 12"	12" x 18"	12" x 24"	18" x 18"	18" x 24"	24" x 24"
Travertine						
Light		x	x			
Dark		x	x			
Sandstone						
Light Buff	x	x	x	x	x	x
Dark Buff	x	x	x	x	x	x
Rustic Red	x	x	x	x	x	x
Slate						
Bluestone	x	x	x	x	x	x
Smoke	x	x	x	x	x	x
Old World						
Limestone	x		x	x		x
Raven	x		x	x		x
Classic						

Pewter						X
Buff						X
Brick Red						X

2.02 PRODUCT SUBSTITUTIONS

A) Substitutions: No substitutions permitted.

2.03 PEDESTALS

A) Provide paver pedestals as follows:

- 1) Manufacturer: []
- 2) Material: []
- 3) Material Standard: []

2.04 ACCESSORIES

A) Provide accessory materials as follows:

- 1) Paver Cleaner:
 - a) Manufacturer: []
 - b) Material: []
 - c) Material Standard: []
- 2) Paver Sealer:
 - a) Manufacturer: []
 - b) Material: []
 - c) Material Standard: []

PART 3 EXECUTION

3.01 EXAMINATION

A) Acceptance of Site Verification of Conditions:

- 1) Contractor shall inspect, accept and certify in writing that roof conditions meet specifications for the following items prior to installation of concrete paving slabs.
 - a) Verify that all specified geotextiles, if applicable, have been placed according to drawings and specifications.
 - b) Verify that all specified waterproofing, if applicable, has been placed according to drawings and specifications.
 - c) Verify that all specified protection board, if applicable, has been placed according to drawings and specifications.
 - d) Verify that roof deck materials, thickness, surface tolerances and elevations conform to specified requirements.
 - e) Provide written test results for roof deck materials to the Owner, General Contractor and paving slab installation subcontractor.
 - f) Verify location, type, and elevations of edge restraints, drains, drain holes, holes and inlets.
- 2) Do not proceed with any work in this Section until roof conditions are corrected.

3.02 EXAMINATION

- A) Verify that all surfaces, membrane(s), protection board, insulation, drains, are free from dirt, oil, grease or any deleterious substances and debris which may prevent installation, drainage, and stability of the paving slab installation.
- B) Verify that roof deck has a minimum of 2% slope to drains.
- C) Do not begin paving work until such conditions have been corrected and conditions are ready to receive leveling materials and paving slabs.

3.03 INSTALLATION

- A) Locate and place pedestals according to manufacturer's recommendations and as indicated on the drawings.
- B) Place paving slabs on pedestals to be supported according to pedestal manufacturer's recommendations.
- C) Align pedestals in all directions and shim elevations of slabs as work progresses and according to the manufacturer's recommendations.
- D) Trim and remove uncovered portion of pedestals to fit tightly with slabs against parapets, walls, and protrusions in the roof.
 - 1) Cut paving slabs with a masonry saw to fit in these areas. A paver splitter shall not be used. Cut slabs without damage to exposed faces and edges. Cut units should be no smaller than [1/2] of a whole slab.
- E) Maintain consistent joint widths and joints aligned in all directions as indicated on the drawings.
- F) Do not install cracked, broken or otherwise blemished paving slabs.
- G) Remove cut pieces and other debris from the surface and on the roof deck.
 - 1) Surface shall be broom clean.

3.03 FIELD QUALITY CONTROL

- A) Check final surface elevations for conformance to drawings.
- B) Lippage: Maximum 1/4 in. height variation between adjacent paving slabs.
- C) Joint (bond) lines shall not deviate more than $\pm 1/2$ in. over 50 ft. from string lines.
- D) The final surface tolerance from grade elevations shall not deviate more than $\pm 3/8$ in. under a 10 ft straightedge.

3.04 CLEANING, SEALING

- A) Clean and seal concrete slabs in accordance with the manufacturer's written recommendations.

3.05 PROTECTION

- A) After work in this section is complete, Contractor shall protect work from damage due to subsequent construction activity on the site.

END OF SECTION