

NITTERHOUSE



MASONRY PRODUCTS, LLC

ARCHITECTURAL PAVING STONES

PRODUCT - URBAN STONE

PART 1 - GENERAL

MANUFACTURER

Nitterhouse Masonry Products, LLC
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Chambersburg, PA 17201
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TECHNICAL INFORMATION

Certifications:

Urban Stone units to conform to the following physical properties.
Furnish pavers meeting the following requirements:
Suitable for on-grade installation.

Compressive Strength:

Average compressive strength of 55 MPa (8,500 psi) with no individual unit under 50 MPa

Absorption:

Average absorption of less than 5% - tested in accordance with ASTM C 140.

Flexural Strength: The paver stones have an average flexural strength of 870 PSI - tested in accordance with NCMA testing procedures.

Density: ASTM- C145 – 150 lbs pcf

Freeze Thaw Durability: ASTM 1262- Less than 3% (50 cycles)

QUALITY ASSURANCE

All aggregates conform to ASTM

C-33 Standard for aggregates

C 140, Sampling and Testing Concrete Masonry Units.

C 144, Standard Specification for Aggregate for Masonry Mortar.

C 936, Specification for Solid Interlocking Concrete Paving Units.

C 979, Specification for Pigments for Integrally Colored Concrete.

D 698, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures

ASTM C-150 Specification for Portland Cement

1.01 QUALITY ASSURANCE

A. Installation by a contractor and crew with at least one year of experience in placing concrete pavers on projects of similar nature or dollar cost.

B. Contractor shall conform to all local, state/provincial, federal licensing and bonding requirements.

1.02 SUBMITTALS

A. Shop or product drawings, and product data.

B. Full size samples of concrete paving units to indicate color and shape selections.

C. Color to be selected / specified by Architect/Engineer/Landscape Architect/Owner from manufacturer's available colors.

D. Indicating drawing layout, pattern, and relationship of paving joints to fixtures and project formed

1.03 MOCK-UPS

A. Install a (4 ft. x 4 ft.) paver area

B. This area will be used to determine surcharge of the bedding sand layer, joint sizes, lines, laying pattern(s), color(s), and texture of the job.

C. Approved by the engineer/architect or owner and shall be the standard from which the work will be judged.

D. Approved area shall be included in the work.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver concrete pavers to site in steel banded, plastic banded, or plastic wrapped cubes on wooden pallets capable of transfer by fork lift.

B. Unload pavers at job site in such a manner that no damage occurs to the product.

1.05 ENVIRONMENTAL CONDITIONS

A. Do not install sand or pavers during heavy rain or snowfall.

B. Do not install sand and pavers over frozen base materials.

C. Do not install frozen sand.

PART 2 PRODUCTS

2.01 CONCRETE PAVERS

SPECIFIED PRODUCT

A. Architectural Paving Stones

B. Product -

Name – Urban Stone

Color – To be selected by Arch /owner

Finish – Antique , square edges

Overall dimensions of the paver(s):

4"x12"x3 1/8", 4"x18"x3 1/8", 4"x24"x3 1/8"

Other sizes available on request.

Weight: 39 lbs./sq. ft.

TOLERANCES: Paver stones are hydraulically pressed to create a high density concrete unit and are manufactured to 1/8" tolerance in any direction.

2.02 EDGE RESTRAINTS

Note: Edge Restraints various types.

A. Concrete, Plastic, Wood, Metal. Any that will restrain the pavers from moving laterally

PART 3 EXECUTION

3.01 INSTALLATION

Note: For installation on a compacted aggregate base and soil subgrade, the specifier should be aware that the top surface of the pavers may be 3 mm (1/8") above the final elevations after installation. This difference in initial and final elevation is to compensate for possible minor settling.

A. Verify that subgrade preparation, compacted density and elevations conform to the specifications.

Note: Compaction of the soil subgrade to at least 95% Standard Proctor Density per ASTM D 698 is recommended. Stabilization of the subgrade and/or base material may be necessary with weak or saturated subgrade soils. The Architect/Engineer should inspect subgrade preparation, elevations, and conduct density tests for conformance to specifications.

B. Verify that geotextiles, if applicable, have been placed according to specifications.

C. Verify that aggregate base materials, thickness, compaction, surface tolerances, and elevations conform to the specifications.

Note: Local aggregate base materials typical to those used for flexible pavements are recommended, or those conforming to ASTM D 2940. Compaction to not less than 95% Proctor Density in accordance with ASTM D 698 is recommended for pedestrian areas. The aggregate base should be spread and compacted in uniform layers not exceeding 150 mm (6 in.) thickness. Recommended base surface tolerance should be plus or minus 10 mm (3/8 in.) over a 3 m (10 ft.) straight edge.

NOTE: Mechanical plate compactors are not to be used on architectural paving stones.

A. Verify location, type, installation and elevations of edge restraints around the perimeter area to be paved.

B. Install edge restraints per the drawings [and manufacturer's recommendations][at the indicated elevations].

C. Verify that base is dry, uniform, even, and ready to support sand, pavers, and imposed loads.

D. Beginning of bedding sand and paver installation means acceptance of base and edge restraints.

E. Verify that base is dry, uniform, even, and ready to support sand, pavers, and imposed loads.

F. Beginning of bedding sand and paver installation means acceptance of base and edge restraints.

Consult manufacturer for further information on installation.

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