

5260301 ARCHITECTURAL PAVERS – CONSTRUCTION METHODS  
COMMENTS FROM INDUSTRY REVIEW

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Duane Brautigam  
State Specifications/Estimates Office Manager

Comments:

The current spec language seems to indicate that samples are submitted for type, pattern, shape and color only. Although the ASTMs cited have strength requirements, the old spec does not indicate the samples will be tested for strength. This modification seems to add testing requirements for roadway paver samples, even though that is apparently not the case per conversation with SMO. Suggest simplifying the spec by requiring certification to the ASTM methods and eliminating all testing of samples. Arguably, successful architectural paver installations are more a function of the bedding materials, placement and care in installation than the actual strength of the ASTM paver. The sieve analyses and the mock-up installation would seem to address those installation concerns.

Response: Language changed to clarify how the pavers used in the roadway will be analyzed. It is the intent to test pavers roadway placed in the roadway for conformance to the appropriate test method in the table for all requirements including strength. We will pass on the comment regarding the bedding sand to the Geotechnical unit for review.

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Comments:

My name is Tom Kline and I was the Project Administrator for HDRCCC on the LAP project between FDOT and the City of Daytona Beach where we installed both sidewalk and roadway architectural pavers on A1A from Speedway Blvd. north to Riverview Dr. Because of this project I became more familiar with Architectural Pavers than I ever wanted to. During the project we experienced problems with the gradation of the bedding and joint sands that led to pumping and failure of the roadway pavers at Main St. and A1A within an hour of having traffic on it. For that reason I was glad to see the gradation certs being added as a required submittal for these materials. However, I think it would also be beneficial to require that this documentation be source specific and that the contractor provide delivery tickets or some sort of documentation verifying that the material being used is indeed the same material that the submitted gradation represents. If this is covered somewhere else in the specs please feel free to ignore this suggestion and I apologize. It's just that the gradation requirements are very narrow, with minimal fine and large aggregates. Too much fine material opens the door to pumping and failure if the area were to get saturated; too much large aggregate can lead to the pavers cracking. It is nearly impossible to know if the material being used conforms to the gradation requirements

by a visual inspection and very easy for a contractor to use whatever sandy material happens to be handy. Just an observation.

**Response:** This is a Soils/Foundation requirement. We will pass this comment on to the Geotechnical unit for further analysis since it may be affected by Rule requirements.

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**From:** Blazo, Susan  
**Sent:** Friday, December 19, 2008 8:18 AM  
**To:** Powell, Jr., Rudy  
**Subject:** RE: 5260000

The Sampling Testing and Reporting Guide says project personnel sample and submit to the State Materials Office. We don't normally specify submitting anything directly to the SMO, especially in Division II sections.

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653	V	200207	STD Spec 526	PP TEST	Architectural Pavers Roadway
			N	CL	

Legend: DL= District Lab, CL= Central Lab (SMO), QL= QC Lab, QP= QC Personnel, PP= Project Personnel, PD= Project/District

Call me or email me if you have any questions. Thank you.

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**From:** Powell, Jr., Rudy  
**Sent:** Friday, December 19, 2008 7:21 AM  
**To:** Blazo, Susan  
**Subject:** 5260000

Just to make sure. What is the Engineer going to do with the samples of roadway pavers received?

▪ **526-3.1-General:**¶

- - **526-3.1.1-Submittals:** Prior to beginning placement, furnish ~~For~~ to the Engineer, for approval, full-size samples of ~~a~~ Architectural Pavers. ~~— Roadway, furnish full-size samples to the Engineer for approval prior to beginning placement, to indicate type, pattern, shape and color. For Architectural Pavers— Sidewalk, provide the Engineer a certification that the architectural pavers meet the requirements of this Section. In addition, for all architectural pavers,~~ Also submit a certified sieve analysis for gradation ~~comparing results~~ of the bedding sand and joint sand ~~with the requirements of ASTM C33 or ASTM C144 as applicable.~~¶

- - **526-3.1.2-Mock-ups:** Prior to beginning placement, install a 6' by 6' foot paver area following these specifications. This area will be used to determine surcharge of the bedding material, layer, joint sizes, lines, laying patterns, and colors of the job. This