



*Florida Department of Transportation*

RON DESANTIS  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.  
SECRETARY

February 18, 2020

**This Memo has expired**

**MATERIALS BULLETIN NO. 20-05**  
**DCE MEMORANDUM NO. 20-05**  
*(FHWA Approved: 2/18/2020)*

**TO: DISTRICT MATERIALS AND RESEARCH ENGINEERS  
DISTRICT CONSTRUCTION ENGINEERS**

**FROM:** Timothy Ruelke P.E., Director, Office of Materials  
Dan L. Hurtado P.E., Director, Office of Construction

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*Tim Ruelke*  
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DocuSigned by:  
*Dan Hurtado*

**COPIES:** Will Watts, Scott Arnold, Ananth Prasad, Chad Thompson, Patrick Upshaw, Jose Armenteros

**SUBJECT: ARGOS - TAMPA, FL (SLAG01)**

In order to prevent concrete placement delays on ongoing construction projects due to the shortage of slag cement from the Argos – Tampa, FL (SLAG01), concrete producers may request the Department to implement a modified concrete mix design approval process. This is only applicable for replacing Lehigh – Argos – Tampa, FL (SLAG01) slag cement incorporated in currently approved concrete mix designs assigned to current projects. The Contractor/Producer assumes all risks involved for ensuring that concrete plastic and hardened properties are in compliance with the specifications at the time of placement.

The modified concrete mix shall meet the following requirements:

1. The latest mill test report shall be provided for both the slag source Argos – Tampa, FL (SLAG01) and the proposed replacement slag source to compare the following properties:
  - a. The percent alumina oxide content (Al<sub>2</sub>O<sub>3</sub>) shall not be more than 1.0% greater than the original slag.
  - b. The Blaine fineness shall not be more than 50 m<sup>2</sup>/kg greater than the original slag.
2. District Materials Office personnel will ensure the replacement concrete mix contains the same component materials and quantities as the replaced mix and only slag substitution is permitted. The new concrete mix must meet the same requirements as the old mix. Adjustments to component weights, due to a difference in specific gravity of replacement slag chosen, will be permitted as long as the replacement mix equals the original mix

**MATERIALS BULLETIN NO. 20-05**

**DCE MEMORANDUM NO. 20-05**

Page 2 of 2

regarding application and environmental conditions. All materials must be from an approved source.

3. District Materials Office personnel will review and submit the replacement mix design to the State Materials Office following the material substitution procedure found in Materials Manual, Section 9.2, Vol. II.
4. If the slag substitution request is approved, the State materials office will assign a new concrete mix design number.
5. Submit to the District Materials Office the 28-day compressive strength results from the first job-site placement of the new concrete mix design, for each project. District Materials Office personnel will submit the 28-day compressive strength results to the State Materials Office.

This memorandum does not waive any specification requirements but simply allows an expedient means to approve mix designs. It is in effect until **March 16, 2020**. After that date, the normal mix design approval process will be in effect.

Should you have any questions please contact Jose Armenteros, State Materials Office at 352-955-6666, or Pat Carlton, State Materials Office at 352-955-6676.

TR/ja