

**GROUND GRANULATED BLAST-FURNACE SLAG**

<b>SUPPLIER</b>	<b>SOURCE</b>	<b>SPECIFIC GRAVITY</b>	<b>DRY RODDED Wt.</b> Lb/cu.ft.(kg /cu. m)
Buzzi Unicem USA, Inc. (Newcem,Lafarge North America -Chicago, IL Producer)	Memphis, TN.	2.95	83(1329.5)
(Newcem,Lafarge North America -Chicago, IL Producer)	New Orleans, LA.	2.95	83(1329.5)
(Newcem,Lafarge North America -Chicago, IL Producer)	St. Louis, MO	2.95	83(1329.5)
(Newcem,Lafarge North America -Chicago, IL Producer)			
Holcim (US) Inc. (GranCem)	Chicago, IL.	2.87	85.8(1377.7)
Holcim (US) Inc. (GranCem)	Birmingham, AL.	2.87	85.8(1377.7)

METHOD OF DOCUMENTATION OF ACCEPTANCE: Producer's/Supplier's certified shipping notice in accord with the attached agreement.

METHOD OF DOCUMENTATION OF USE:

The inspector shall note on the "Concrete Plant Inspector's Daily Report" the name of producer/supplier and source location.

PROCEDURE AGREEMENT: The above listed Producer's/Supplier's are approved to ship ground granulated blast-furnace slag in accord with the attached agreement.

Destination Sampling and Testing:

Materials Division will request random samples through the Resident Engineer. These random samples shall be taken from the transport trailer/railroad car and be identified by:

- A. Name of Supplier
- B. Bill of Lading Number
- C. Supplier Bin (silo) Number
- E. Supplier Test Number

AGREEMENT FOR THE ACCEPTANCE  
OF GROUND GRANULATED BLAST-FURNACE SLAG  
BASED ON CERTIFIED MILL TESTS

Ground granulated blast-furnace slag will be accepted by the Arkansas State Highway and Transportation Department based on the producer's/ Supplier's certification that the material meets all requirements of applicable Department specifications (AASHTO M 302, Grade 100 or Grade 120) under the following conditions:

1. The producers/suppliers shall maintain a file of their test results and methods of testing. The producer's laboratory shall be inspected periodically by the Concrete and Cement Reference Laboratory of the National Institute of Standards and Technology, and upon request, make reports of inspections available to the Department.

2. Ground granulated blast-furnace slag shall be tested at a rate agreed to by the Department and in the manner defined in AASHTO M 302, to include chloride ion content. Laboratory analyses of these tests covering the ground granulated blast-furnace slag certified and shipped to Department projects shall be furnished to the Department's Materials Division.

3. Shipments to Department projects shall be made only from silos that are certified to meet Department specifications.

4. The producer shall furnish with each shipment a certification containing the following:

- a. consignee
- b. date and time of shipment
- c. truck or railroad car number
- d. quantity of ground granulated blast-furnace slag shipped
- e. grade of ground granulated blast-furnace slag
- f. silo number from which shipped
- g. a statement that "This is to certify that the grade of ground granulated blast-furnace slag in this shipment is from silo number \_\_\_\_\_ and complies with the AASHTO specification for the grade shipped."
- h. the signature of a responsible company official

One copy of the shipment certification form for the Resident Engineer shall accompany the shipment.

5. The Department will make periodic inspections by source sampling and by checking test results and methods of testing used by the producer.

6. A monthly composite sample will be sent to the Materials Division. This sample will be composed of approximately equally sized samples obtained from pretested bins.

7. Destination samples will also be taken as deemed necessary to assure compliance with specifications. Failure of these samples may be considered sufficient cause to reject the ground granulated blast-furnace slag and suspend further shipments until tests by the Department determine that the producer's product is in compliance with applicable specifications and requirements. Acceptance of ground granulated blast-furnace slag by this method is subject to withdrawal for failure to comply with the above requirements.

\_\_\_\_\_  
Company Name – Plant Location

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Typed/Printed Name

\_\_\_\_\_  
Date

Telephone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

Email Address: \_\_\_\_\_