

## Miscellaneous Precast Concrete Products

### Certified Acceptance Procedure

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Dunn Utility Products

New Albany MS

Byram MS

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Eagle Vault Co.

Ruston LA

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Forterra Pipe and Precast

Little Rock AR

Grand Prairie TX

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IMC-Wilbert - Parsons, KS

Overland Park KS

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Peterson Concrete

North Little Rock AR

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Peterson Concrete, Inc.

Russellville AR

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Rinker Materials

West Memphis AR

Como MS

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Rose Concrete Products, Inc.

Scott City MO

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Scurlock Industries

Springfield MO

Jonesboro AR

Fayetteville AR

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Vanguard Precast Corp. / Oldcastle Precast,  
Inc.

Topeka KS

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Miscellaneous precast concrete products include precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, junction boxes and spring boxes.

Method of Documentation of Acceptance:

## Miscellaneous Precast Concrete Products

### CERTIFIED ACCEPTANCE PROCEDURE

Accepted for use on Department projects based on a Certificate of Delivery furnished by the manufacturer to the Resident Engineer. Each piece shall bear a cast date and identification number. The Resident Engineer shall check the condition of the precast products delivered and also verify the products delivered.

### FINAL ACCEPTANCE PROCEDURE

Accepted for use on Department projects based on an inspection by authorized Arkansas Department of Transportation (ARDOT) personnel and a Certificate of Delivery furnished by the manufacturer to the Resident Engineer. Each piece shall bear a cast date and an identification number and shall be stamped by an ARDOT inspector or represented by an approved test report from the Materials Division.

### Method of Approval:

#### CERTIFICATION ACCEPTANCE PROCEDURE FOR MISCELLANEOUS PRECAST CONCRETE PRODUCTS

The following outlines the procedure to provide quality control of miscellaneous precast concrete products to assure they meet ARDOT specifications. This procedure is applicable to precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, spring boxes and junction boxes.

Qualification of precast concrete manufacturers is based on a plant inspection prior to the casting operations to determine their capability of producing a uniform product in compliance with the ARDOT Standard Specifications, design drawings and other referenced specifications. Items covered in this inspection will include materials storage, scales, batch plants, casting forms, testing facilities and quality control.

The manufacturer shall have a Quality Control program whereby representative samples of raw materials (cement, aggregates, reinforcement) are tested and/or reviewed for conformity to the Department's specifications. In addition, quality control tests (slump, compressive strength and gradations as applicable) shall be conducted by the manufacturer during casting operations. Quality control tests shall be conducted in accordance with the ARDOT Manual of Field Sampling and Testing Procedures. The frequency of quality control tests shall be one (1) set of tests per lot (20 units) or portion thereof for each type product. If the mix design for a product changes during the weekly time period or within a lot of 20 units, each mix shall require separate quality control tests.

Records of materials used in the manufacture of precast units and quality control tests shall be maintained by the manufacturer. The State shall reserve the right to review records for compliance with the ARDOT and referenced specifications and to reject any non-conforming units. Miscellaneous precast items furnished in accordance with the Certification Acceptance Procedure shall not be shipped nor incorporated into the job until all testing has been completed. Copies of the manufacturer's record shall be provided to the Engineer upon request.

The state shall reserve the right to observe all manufacturing processes and conduct random quality assurance tests to determine compliance. If deemed necessary, drilled cores shall be taken at the direction of the Engineer to verify the compressive strength.

All precast units manufactured for use on ARDOT projects under this procedure shall be legibly marked with the cast date and a distinct identification number. The manufacturer shall furnish a Certificate of Delivery for each shipment stating that the listed products conform to the ARDOT Specifications and other referenced specifications.

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It shall also state that the products are being furnished in accordance with the Certification Acceptance Procedure. The information on the Certificate of Delivery shall include the state job number or purchase order number, consignee, destination, sizes, class, lengths, number of pieces, cast date, identification number and plant of origin. One copy of the Certificate of Delivery and shipping papers shall be furnished to the Resident Engineer. When miscellaneous precast concrete products are shipped to a third party and then supplied to a Contractor for a Department project, a copy of the manufacturer's Certificate of Delivery shall be furnished to the Resident Engineer.

### THE FOLLOWING WILL ALSO APPLY FOR PRODUCTS CONTAINING IRON AND STEEL

All iron and steel material used on Department projects must comply with the "Buy America" requirements and the Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of iron and steel in a product (i.e., smelting/remelting and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling, and applying coatings. The use of pig iron or processed, pelletized and reduced iron ore manufactured outside of the United States is permitted in the domestic manufacturing process for steel and/or iron materials. All steel and iron mill test reports must include a certified statement that all manufacturing processes for the iron or steel product occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with the "Buy America" requirements.

Failure of the Manufacturer to comply with this procedure may be considered sufficient reason to terminate this agreement. In the event this agreement is terminated, approval of miscellaneous precast concrete products will be by Final Inspection Procedure.

We elect to use the Certification Acceptance Procedure. All products produced under this agreement and delivered to the Arkansas Department of Transportation will conform to ARDOT Specifications and other referenced specifications.

### FINAL INSPECTION PROCEDURE FOR MISCELLANEOUS PRECAST CONCRETE PRODUCTS

The following outlines a procedure to provide quality assurance of miscellaneous precast concrete products to insure they meet the Arkansas Department of Transportation's (ARDOT) specifications. This procedure is applicable to precast concrete flared end sections, curtain walls, cattle passes, underdrain outlet protectors, drop inlets, junction boxes and spring boxes. This procedure shall be used by manufacturers who choose not to furnish these items in accordance with the Certification Acceptance Procedure or who are judged as unqualified to furnish precast products under the Certification Acceptance Procedure.

Precast units shall be visually inspected and tested at the manufacturing plant, storage yard or at the jobsite, as directed by the Engineer.

All precast units manufactured for use on ARDOT projects under this procedure shall be legibly marked with the cast date and a distinct identification number.

Sampling and testing of raw materials (cement, aggregates, reinforcement) and quality control tests (slump, compressive strength and gradations as applicable) shall be conducted, as directed by the Engineer, in accordance with the ARDOT Manual of Field Sampling and Testing Procedures. At the discretion of the Engineer, drilled cores shall be taken at a frequency of one core per 10 units per precast product per size or

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portion thereof. Cores shall be taken and tested at no cost to the Department. Testing of drilled cores shall be by an approved independent testing laboratory, by the manufacturer and witnessed by the Department, or by the Department, if deemed appropriate by the Engineer. The state shall reserve the right to observe all manufacturing processes.

### THE FOLLOWING WILL ALSO APPLY FOR PRODUCTS CONTAINING IRON AND STEEL

All iron and steel material used on Department projects must comply with the "Buy America" requirements and the Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of iron and steel in a product (i.e., smelting/remelting and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling, and applying coatings. The use of pig iron or processed, pelletized and reduced iron ore manufactured outside of the United States is permitted in the domestic manufacturing process for steel and/or iron materials. All steel and iron mill test reports must include a certified statement that all manufacturing processes for the iron or steel product occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with the "Buy America" requirements.

Miscellaneous precast items furnished in accordance with the Final Inspection Procedure shall not be shipped nor incorporated into the job until all testing and inspection has been completed. Units found to be in compliance with specifications will be stamped with an ARDOT approval stamp or represented by an approved test report from the Materials Division.

The manufacturer shall furnish a Certificate of Delivery for each shipment, stating that listed materials have been inspected and approved by an authorized ARDOT inspector and that the products conform to the ARDOT Specifications. It shall also state that the products are being furnished in accordance with the Final Inspection Procedure. The information on the Certificate of Delivery shall include the state job number (or state purchase order number), consignee, destination, sizes, class, lengths, number of pieces, cast date, identification number and plant of origin. One copy of the Certificate of Delivery and shipping papers shall be furnished to the Resident Engineer. When miscellaneous precast concrete products are shipped to a third party and then supplied to a Contractor for a Department project, a copy of the manufacturer's Certificate of Delivery shall be furnished to the Resident Engineer.