

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, EDITION 2007**

Add a new SECTION in DIVISION 1600.

HEADED REINFORCING ANCHORS

1.0 DESCRIPTION

This specification covers rebar with headed anchors attached to one or both ends of the bars for concrete reinforcement. Equivalent types of headed reinforcing anchors may also be referred to as headed reinforcement, headed rebar, rebar end anchors, or rebar terminators.

2.0 REQUIREMENTS

a. Mount anchors on bars that meet all requirements of **SECTION 1601** including prequalified plant status.

b. Mount anchors on bars in a fabricator's shop prior to delivery to a project. Forging, swaging, and threading are acceptable methods of attaching the anchors on bars.

c. Unless otherwise shown, use only headed reinforcing anchors with heads having a net area of at least 9 times the area of the reinforcing bar.

d. Use anchors complying with the requirements of ASTM A 970, Class A with the following exception:

(1) Rejection based on testing done at the KDOT in accordance with this specification may be reported at any time after the samples are delivered. Samples tested for prequalification which are rejected are not eligible for a rehearing.

3.0 TEST METHODS

Test according to the requirements of **subsection 2.0d**.

4.0 PREQUALIFICATION

a. Prepare 3 test specimens each bar size to be prequalified and forward them to the Engineer of Tests along with the following information:

- Name, address and telephone number of the manufacturer. Include the name and e-mail address of the preferred contact person.
- Brand name of the anchor.
- Type and description of the anchor.
- Method of attachment of the reinforcing anchor to the rebar (forged, swaged, or threaded).
- Information regarding recommended usage and instructions.
- Material Safety Data Sheets (if applicable).

b. The samples provided will be tested to destruction and test reports prepared. During testing, the Engineer of Tests will determine if operator prequalification is required for fabricator shop attachment, and enter that information on the test reports. The test reports and the information supplied will be reviewed by the Bureau Chief of Materials and Research. The manufacturer will be advised as to whether or not the product is prequalified.

c. The Bureau of Materials and Research will maintain a list of prequalified anchors. Products on the list will be classified by the method of attachment to the bar as listed in **subsection 2.0b** and the approved bar sizes.

Products will remain prequalified as long as the manufacturing processes remain unchanged, and field experience indicates that the product functions appropriately. Changes in manufacturing processes require new prequalification testing. Failure of the product to function appropriately in the field will be cause for removal from prequalified status. Products removed from prequalified status will be considered for requalification if the manufacturer can provide evidence that the cause of failure has been positively identified, and necessary changes and quality control measures have been implemented to eliminate that cause. Complete prequalification testing will be required for products that have been removed from prequalified status.

5.0 BASIS OF ACCEPTANCE

Prequalification as specified in **subsection 4.0**.

Receipt and approval of a Type C certification as specified in **DIVISION 2600**.

05-30-12 M&R (SML)
Sept-12 Letting