

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
QUALIFIED PRODUCT POLICY
FOR
PRODUCERS OF ULTIMATE BUTT-WELDED SPLICES (WELDED HOOPS) OF
REINFORCING STEEL

1.0 General:

As prescribed in Supplemental Specification "Section 703 Reinforcing Steel", fabricators of ultimate butt-welded splices (UBWS) of reinforcing steel used on South Carolina Department of Transportation (SCDOT) construction projects must be listed on Qualified Product List (QPL) 103. This policy outlines the requirements for inclusion on this QPL.

2.0 Initial:

A fabricator of UBWS may request addition to QPL 103 by submitting the following:

2.1 A letter to the including the following:

1. The name and physical address of the fabrication facility.
2. Name and contact info for QC Manager to be contacted in case of failing samples.
3. A listing of all sizes of UBWS to be fabricated (bar size and UBWS diameter).
4. The rebar supplier/suppliers to be used (must be on QPL 60) to fabricate the UBWS.
5. A description of the welding process used.
 - a. Must use a resistance flash welding process. Flash welding is defined as a welding process utilizing electrical current to produce resistance heating and no filler material.

2.2 UBWS samples meeting the following:

1. Two samples from each rebar size and mill listed in Subsection 2.1:
 - a. One sample within six inches of the smallest diameter UBWS listed for each rebar size.

- b. One sample within six inches of the largest diameter UBWS listed for each rebar size.
2. Samples may be either full UBWS samples or samples cut from the UBWS (un-straightened) at least 30 inches long with the weld in the middle.

Send the letter and UBWS samples to:

Caleb Gunter, PE
Structural Steel Engineer
SCDOT Office of Materials and Research
1406 Shop Road
Columbia, SC 29201
(803) 737-6694
Fax: (803) 737-6649
Email: guntercb@scdot.org

The Structural Steel Engineer will review the information from Subsection 2.1. If the information is found to be consistent with the requirements of the most recent edition of the SCDOT "Reinforcing Steel Supplemental Specification," the submitted hoop samples will be tensile tested in conformance with the requirements of the most recent edition of AASHTO T 244 to failure. If the samples meet the requirements of the most recent edition of Subsection 703.2.5.2.3 of the SCDOT "Reinforcing Steel Supplemental Specification," the producer will be added to QPL 103 for the sizes covered.

3.0 Renewal

To retain qualification on QPL 103, the UBWS fabricator must submit the following:

- 3.1 The UBWS fabricator must submit samples meeting the requirements of Subsection 2.2 every two years from the date of acceptance for tensile testing to failure.
- 3.2 The fabricator must notify the Structural Steel Engineer when any of the reported information listed in Subsection 2.1 changes.
- 3.3 The SCDOT has the right to visit and audit any fabricator's facility and randomly select samples of product and witness testing by the producer.

4.0 Requirements for Each Shipment:

For each shipment, furnish a certified mill test report for the specific heats contained in the shipment.

Each shipment of UBWS will be sampled upon delivery according to the most recent edition of the SCDOT "Reinforcing Steel Supplemental Specification."