

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

Qualified Electrically Welded Shear Connector Studs

Subsection 709.2.3, "Electrically Welded Studs", Standard Specifications, requires that before placing orders for studs, the contractor shall submit to the engineer for approval the following information on studs to be purchased:

1. The name of the manufacturer
2. A detailed description of the stud and arc shield to be furnished
3. A certification from the manufacturer that the stud meets the Department's requirements
4. A copy of the qualification test report as certified by a reputable testing laboratory or Department Laboratory

The above information does not have to be submitted when the manufacturer is on the qualified product list. After qualification of a particular type of stud as described above, resubmission of the above data will not be required unless the metal or flux chemistry changes. It will be required that the manufacturer furnish a certification with each stud shipment stating that the studs furnished are in compliance with the Department's Specifications.

LIST OF QUALIFIED SHEAR CONNECTOR STUDS WITH ARC SHIELDS

| Manufacturer   | Manufacturer's Designation | Stud Diameter in Inches              |
|--|----------------------------|--------------------------------------|
| TRW Nelson Stud<br>Welding Division<br>1520 Pine Log Road<br>Suite 6<br>Conyers, Georgia 30207<br>(770)922-0620<br>(800)635-9353 | N                          | 1/2", 5/8"<br>3/4", 7/8", 1"<br>3/8" |
| Stud Welding Associates<br>Inc.<br>41515 Schaden Road<br>Elyria, Ohio 44035<br>(800) 874-7860                                    | X                          | 1/2", 5/8"<br>3/4", 7/8", 1"         |

| Manufacturer  | Manufacturer's Designation | Stud Diameter in Inches            |
|---|----------------------------|------------------------------------|
| Cox Industries<br>PO Box 366<br>New Haven, Michigan 48048<br>(586) 749-6650<br>(586) 749-6066 FAX<br>Contact: D. J. Ventura   | C                          | 3/8", 1/2", 5/8"<br>3/4", 7/8"     |
| TruWeld Stud Welding<br>460 Lake Road<br>Medina, Ohio 44256<br>(330) 725-7741<br>(330) 725-0161 FAX<br>Contact: Pete Workman  | TW                         | 3/8", 1/2", 5/8"<br>3/4", 7/8", 1" |
| Bluearc Stud Welding<br>11220 East Main St.<br>Huntley, IL 60142<br>(847) 659-0100<br>(847) 659-0108<br>Contact: Duke Perry<br><a href="http://www.bluearcstudwelding.com">www.bluearcstudwelding.com</a> | B                          | 3/8", 1/2", 5/8"<br>3/4", 7/8"     |

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