

Standard Guidelines for Product Review

REBAR SPLICE, MECHANICAL;

Section 00530.42

July, 2013

00530.42 – Rebar Splices, Mechanical

Process - Submit the following:

- Preliminary Information for Product Evaluation Form.
- Independent Test Results showing compliance with Specs listed below.
- Spec Data Sheet.
- Three samples of each size (both black steel and coated)
- Detailed installation instructions and a sample splice.
- List of Limitations and Precautions.

General – All mechanical splices used on ODOT projects must come from the Division's Qualified Products List (QPL). Mechanical splices being submitted shall be identified by the manufacture as either Type 1 or Type 2.

Because of possible elongation, we do not allow splices that utilize a swaging process to be used on column bars for bridge raising applications.

Specifications: Mechanical splices for reinforcing bars are systems, which connect the bars without raising their temperature above 1300 °F.

- Provide mechanical splices which develop at least 135 percent of the specified minimum yield strength or the specified tensile strength of the reinforcing bars in tension, whichever is less. Where bars of different sizes or strengths are connected, the governing strength shall be the strength of the smaller or weaker bar.
- The total slip of reinforcing bars within a mechanical butt splice sleeve shall not exceed 0.040 inches, measured between gauge points clear of the splice sleeve, when the reinforcing bars are loaded in tension to 67% of the specified minimum yield strength of the reinforcing bar. There are no maximum slip requirements for mechanical lap splices.

Process for QPL Qualification – As part of the QPL approval process the manufacturer must submit three samples and independent testing showing conformance with our specifications for each size of rebar, with and without epoxy coating. These test reports and the other items listed above will be taken into consideration for inclusion on the QPL. The approval process is not quick, and should not be used for job specific approvals.

Submittals for Transitions will only be allowed from manufacturers already on the QPL for regular splices. Samples for qualification are not required, but field verification samples will follow the normal splice sample requirements listed above. All other requirements apply.



DEPARTMENT OF
TRANSPORTATION

Construction Section
800 Airport Road SE
Salem, OR 97301-4798
503/986-3059

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You can review our specifications at: <http://www.oregon.gov/ODOT/HWY/SPECS/index.shtml>

Submit QPL samples, application, and documentation to:

Oregon Department of Transportation

Product Evaluation Coordinator

800 Airport Road SE

Salem OR 97301-4798

503-986-3059

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>