

ANTI-SEISMIC CONSTRUCTION REBAR ANCHOR

INDUSTRY
Interstate Highway Construction

PRODUCT
Rebar Anchor

APPLICATION
Anti-Seismic Construction

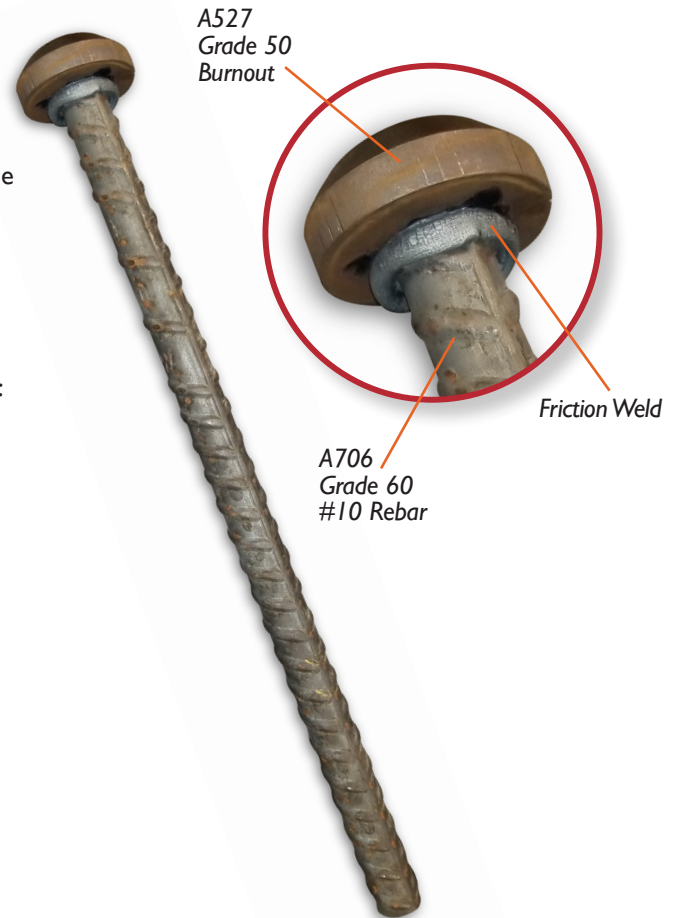
CHALLENGE:

A leading contractor of anti-seismic structures for the transportation and skyscraper construction industries needed a solid state welded joint between standard rebar and an anchor coupling that exceeded the tensile strength of the rebar itself.

SOLUTION:

Utilizing The Friction Welding Advantage, American Friction Welding assisted the customer to realize a 110% increase in the tensile strength of the parent material (grade 60 #10 rebar) using the following materials:

- Friction weld a 6" Ø x ¾" thick A527 Grade 50 burnout to a 60" long piece of A706 Grade 60 #10 rebar
- Increased the tensile strength of the weld joint to 110,000 KSI
- Increased microstructure density of welding interface. The loading section area of welding interface becomes larger after friction welding processing, thereby providing a higher strength.



CONCLUSION:

Friction welded rebar exceeds the quality standards - SA (Anti-Seismic) and FA (Anti-Fatigue) Class. Gives customers more flexibility in the options of rebar coupler material and processing method.

Contact us today to discuss your application in confidence and save with our unique capabilities!



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