



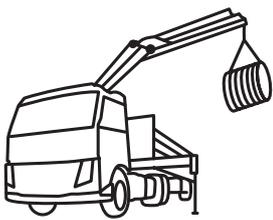
Steel Reinforcement
Institute of Australia



Don't break the REO quality chain

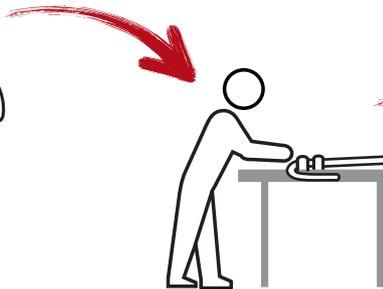
The mechanical properties of a steel bar change when it is bent, straightened, or welded. You must get a **JAS-ANZ accredited 3rd Party Processor Certificate** to guarantee the reinforcing bar and mesh supplied on your project conforms to Australian Standards.

REO quality and traceability chain



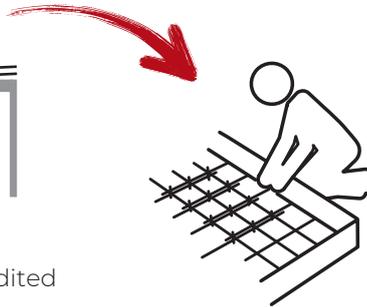
STEEL MILL

A JAS-ANZ accredited **3rd Party Mill Certificate** certifies the **stock bar and rod** conforms to AS/NZS 4671.



PROCESSOR

A JAS-ANZ accredited **3rd Party Processor Certificate** certifies the **processed bar and welded mesh** conforms to AS/NZS 4671, and complies with AS 3600 and AS 5100.5.



BUILDER

Provides a JAS-ANZ accredited **3rd Party Processor Certificate** (ACRS or equivalent) to the **Engineer and Building Certifier** to guarantee REO quality.



CLIENT

Confidence the structure is **safe and robust, and meets the NCC.**

Mitigate your risk.

Ask your builder for a **3RD PARTY PROCESSOR CERTIFICATE** before the concrete is placed.

sria.com.au

It's too late once the concrete is placed

Even with a **3rd Party Processor** certificate to guarantee product quality, the safety and performance of the reinforced structure is compromised if the REO is not installed correctly.

Avoid these common mistakes when working with REO on site:

X Don't	✓ Do
 <p>Bars bent out of position by plant</p> <ul style="list-style-type: none"> X Hit or impact the bar with a sledge-hammer, tool, or plant X Use a piece of pipe to bend bars because it is not allowed in AS 3600 due to lack of control over site process 	<ul style="list-style-type: none"> ✓ Use a hand-held power or manual bending tool that is fitted with a forming mandrel or pin to bend bars on site ✓ Get an SRIA processor member with the appropriate off-site equipment to bend bars > 20mm
 <p>Oxy acetylene removal of bars for service placement</p> <ul style="list-style-type: none"> X Heat bars greater than 450°C because the yield strength reduces to 250 MPa X Remove structural reinforcement without Engineer's written permission X Cool steel bars by quenching with water 	<ul style="list-style-type: none"> ✓ Undertake site welding with approved engineering procedure and qualified welder ✓ Allow normal air cooling of the bar after welding on site
 <p>Non-conforming bends to pre-galvanised reinforcing bar</p> <ul style="list-style-type: none"> X Bend bars around non-conforming pins using equipment, such as a brake press 	<ul style="list-style-type: none"> ✓ Bend bars around conforming pins on site using an approved bar bender ✓ Use an approved SRIA member with accurate processing equipment to bend bars
 <p>Lifting mesh for a driveway during concrete placement</p> <ul style="list-style-type: none"> X Lift steel reinforcement or tread into place during concrete placement 	<ul style="list-style-type: none"> ✓ Use approved AS/NZS 2425 bar chairs to support steel reinforcement during concrete placement

We all play a role in making Australia's building industry trustworthy, safe, and NCC compliant.

Ask for a 3rd Party Processor Certificate and check the REO installation.