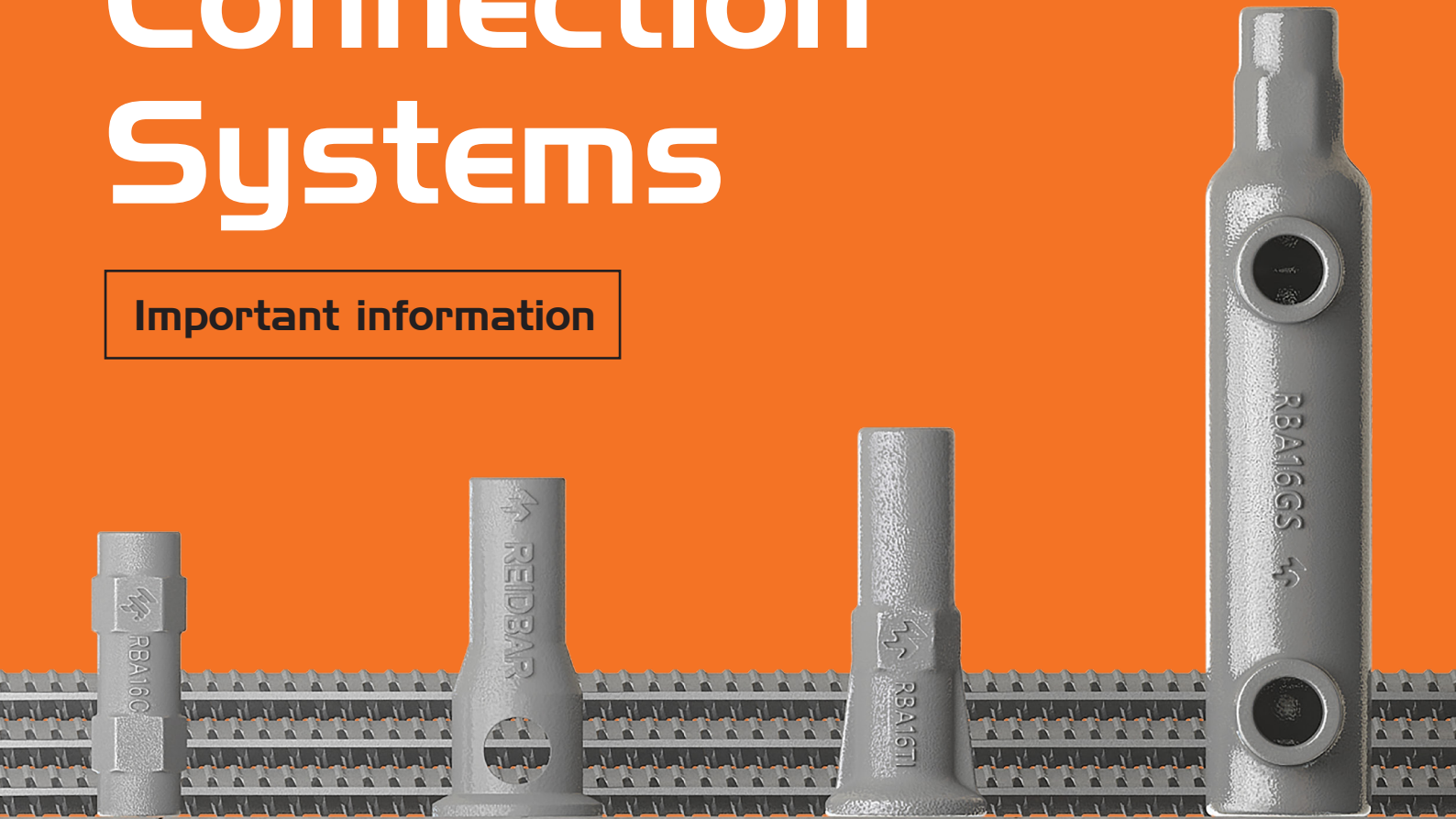


GENUINE 

# ReidBar™ Connection Systems

Important information



Experience the  
Real Deal: Genuine  
ReidBar™ Systems,  
Accept No Substitute.

Are you aware of the product substitution chain of responsibility and risk? **There is NOT a Genuine ReidBar™ system equivalent, no matter what they say...**

**GENUINE** 





### What makes a Genuine ReidBar Connection Fitting 'The Real Deal'



**Performance:**

- Strength
- Design capacities
- Warranty



**Compliance:**

- Quality reassurance
- Validation and testing to the current standards
- Fit for purpose
- Consistent
- Reliable
- Accreditation



**Genuine ReidBar™ connections are comprised of multiple components forming a composite system. Once you substitute any of the certified ReidBar™ components with non-genuine alternatives, the structural integrity of the connection is compromised and the system is no longer compliant.**

If you chose to substitute any product from the Genuine ReidBar System as part of your construction project, YOU assume responsibility for the compatibility, performance & integrity of the resulting connection.

There are a number of factors you will need to consider, before making this decision. We have provided a helpful checklist (on Page 6 of this document) to assist, should you wish to go down this path and assume liability for the resultant connections.

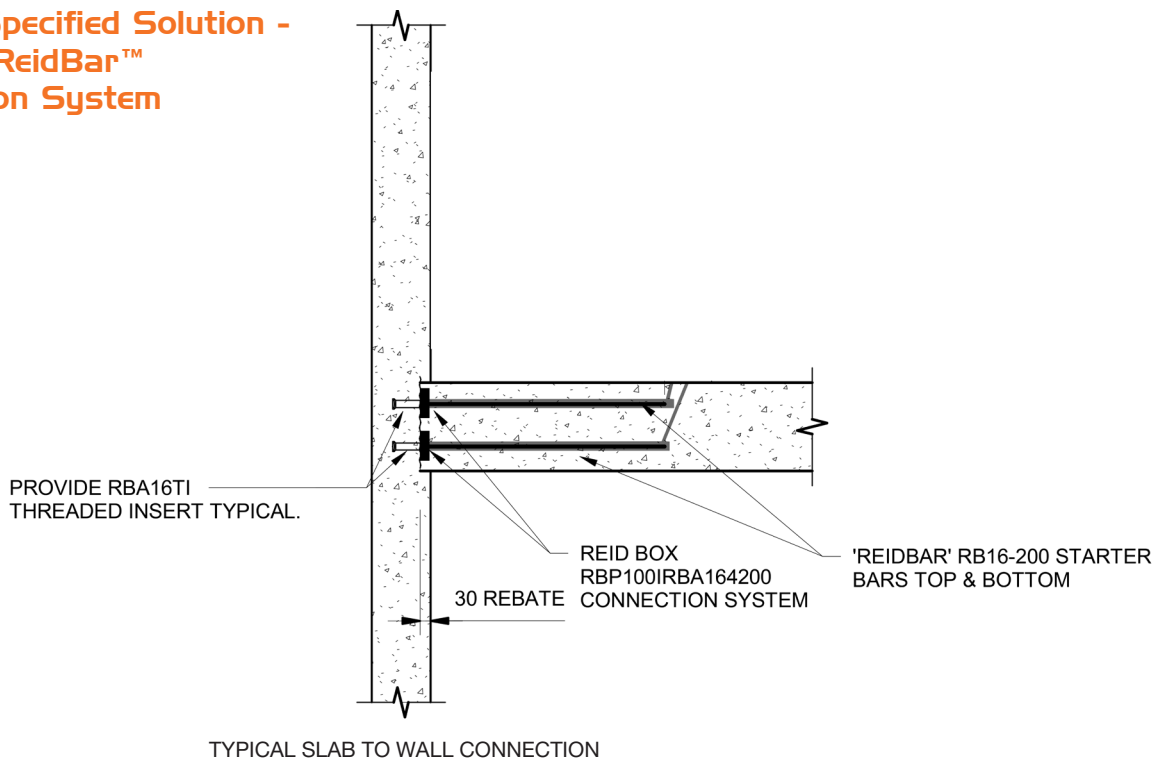
**Genuine ReidBar™ Connection Systems & Product Substitution of Non-Genuine or Inferior Parts**

Genuine ReidBar™ Connection Systems detailed as project specifications by structural engineers are based on unique characteristics of performance and conformance to achieve the intended integrity of the reinforced concrete structure.

**Genuine ReidBar™ Components and Characteristics**

ReidBar™ Connection Systems Reinforcing Components	Genuine ReidBar™ System Characteristics	
	Performance	Conformance
<b>Genuine ReidBar™ Threaded Inserts &amp; Couplers</b>	<ul style="list-style-type: none"> <li>• Design tensile strengths</li> <li>• ReidBox rebate systems with shear and moment enhancement factors</li> </ul>	<ul style="list-style-type: none"> <li>• Tolerance matched to ReidBar™</li> <li>• Prototype tested in accordance with AS3600 cl 19.3.1 (e) and cl B4</li> <li>• Batch quality control testing ISO9001</li> <li>• Quality Management System</li> </ul>
<b>ReidBar™ 500N Threaded Reinforcing Bar</b>	<ul style="list-style-type: none"> <li>• 500MPa minimum yield strength</li> <li>• 540MPa minimum ultimate</li> <li>• 5% <math>A_{gt.k.L}</math> minimum uniform elongation for normal class ductility</li> </ul>	<ul style="list-style-type: none"> <li>• Fully Compliant to AS4671</li> <li>• Mill rolled and threaded temp-core bar</li> <li>• Certified by ACRS third party scheme</li> <li>• Unaltered material properties - no thread forming or swaging required</li> </ul>

**Typical Specified Solution - Genuine ReidBar™ Connection System**



**Genuine ReidBar™ Connection Systems & Product Substitution of Non-Genuine or Inferior Parts**

Standard or Code	Complies
ACRS Certified Systems (ReidBar™ Reinforcing Bar)	
AS3600 Concrete structures	
AS/NZS 4671 Steel for the reinforcement of concrete	
AS/NZS 4680 Hot-dip galvanized (zinc) coatings on fabricated ferrous articles	
NCC - National Construction Code	



**Chain of Responsibility obligations when substituting building products**

Substituting products poses a clear risk for the builder in meeting the requirements of state and national laws governing building product conformity, as well as the Chain of Responsibility (CoR) to ensure the Building meets the intended design. It is the builder’s responsibility to ensure compliance with the project’s engineering design specifications, NCC regulations, and Australian Standards, and any product substitution may jeopardise this obligation.



**Product Substitution Risk Management for Builders**

Product Substitution requires a comprehensive review of alternative components in reinforcing connections against criteria of equivalency, compliance and warranty to determine the risk management and mitigation options. We have provided a helpful checklist (on Page 6 of this document) to assist, should you wish to go down this path and assume liability for the resultant connections.

Substitution Check	Risk Assessment Criteria
Check alternative components for equivalency to specified Genuine ReidBar™ Connection System	<p><b>X</b> Alternative components are deemed not equivalent; Genuine ReidBar™ threaded components have superior design strengths and tolerance matching to the ReidBar™, creating an unequalled system with characteristics, performance and conformance with no direct equivalent in Australian market.</p> <p><b>Substitution = Risk</b></p>
Check alternative components satisfy compliance to Australian Standards AS3600 and AS/NZS4671	<p><b>?</b> Check there is evidence of alternative component validation testing for code compliance, third party accreditation, long term quality data and traceability from mill markings and batch testing certificates.</p>
Check suppliers of alternative components will maintain the project warranty, performance guarantees and product liability insurance coverage	<p><b>?</b> Check for confirmation that substituted product within reinforcing connections are deemed as fit for purpose by a third party providing warranties or product liability insurance on the interconnecting parts.</p>

## Genuine ReidBar™ Connection Systems Compliance, Certification and Quality

### Checklist - Product Substitution

Non-Genuine ReidBar™ - Alternative Product Substitution Risk Factor	Assessment Criteria for Alternative	Deemed to Satisfy?	CoR Risk Management Contingencies/Actions
Alternative components equivalency to Genuine ReidBar™ System 1. Performance 2. Thread tolerance 3. Component engagement	Are alternative reinforcing connection parts validated as equivalent to Genuine ReidBar™ system for all performance and conformance criteria?	No Direct Equivalent	Validate connection proof testing results and continuous quality control of tolerances and matching of alternate fittings to third party bar.
Alternative component fitting equivalency to ReidBar™ Threaded Inserts & Couplers	Are alternative fitting design capacities equivalent to Genuine ReidBar™ system design strengths and adequate for connection design case?	No Direct Equivalent	Initiate full structural design check of alternate connection anchorage strengths with reduction factors applied for limit state design criteria
Alternative reinforcing bar equivalency to ReidBar™ Threaded Bar	Is alternative bar validated as unmodified tempcore bar without treatment of swaging, cutting, cold working or other modifications?	No Direct Equivalent	Investigate bar, treatment by swaging and cut/rolled threads for embrittlement or mode of failure
Alternative component fitting validation to AS3600 Concrete Structures	Evidence of prototype testing and statistical analysis to AS3600 and fit for purpose with 3rd party reinforcing bar?		If No – request proof testing for validation of strength, mode of failure and compatibility with bar
Alternative reinforcing Bar validation to AS4671 reinforcing bar standard	Evidence of compliance to AS 4671 for grade 500N strength and ductility plus chemical & physical properties from quarterly batch testing and long term quality records?		If No – bar must be certified to AS 4671 by NATA lab or accreditation scheme such as ACRS
Alternative Bar Long Term Quality	Evidence of compliance to AS 4671 for batch / long term testing and traceability?		If No – initiate quality control plan for duration of project with NATA test results audited by accredited product certifier.
Alternative Bar Mill Certification and Origins	Accreditation by ACRS with origin verified by mill markings matching the ACRS certificate?		If No – bar must be certified to AS 4671 by accredited NATA lab
Alternative Component Fitting Warranty & Guarantees cover damages from reinforcing connection at joints	Does the reinforcing supplier warrant the ReidBar™ / reinforcing bar where specified connection systems parts are substituted with non-genuine component fittings?		If No – seek full warranty from supplier of alternative fitting covering both fitting and ReidBar™ / reinforcing bar for all connection locations
Alternative Component Fitting Product Liability (PL) Insurance Coverage	Does the alternate component fitting PL insurance cover damages caused by reinforcing connection failure?		If No – seek insurance CoC from fitting supplier covering both parts of the reinforcing system (fitting + bar)
ReidBar™/Reinforcing Bar Product Warranty and Liability (PL) Insurance Coverage	Does the Bar PL insurance cover structural damages caused by reinforcing where substituted non-genuine components are fitted to the reinforcing bar? or mixed with non-conforming bar in the structure.		If No – seek warranty and insurance CoC from bar supplier covering both parts of the reinforcing system (bar + fitting)

## Genuine ReidBar™ Connection Systems Compliance, Certification and Quality

The integrity of reinforcing connections relies heavily on the precise combination of fitting components and structural reinforcing bars. Introducing a non-equivalent component into the Genuine ReidBar™ Structural Reinforcing system significantly heightens the design and construction risks for the entire project, potentially compromising its structural integrity and overall safety.

### Post- Assessment: Builder's Responsibility for Risk Management

Accept Risk	Eliminate Risk
<p>Builder's responsible manager to document all risk assessment findings and present to all internal stakeholders (design, construction, contracts) and external parties (client design , structural consultant, sub-contractor) for review and shared acceptance of risk.</p>	<p>Builder eliminates the identified risk by retaining the Genuine ReidBar™ system and build to the approved specification for reinforcing connections.</p>

### Compliance, Certification and Quality

Genuine ReidBar Structural Reinforcing System components have been designed, manufactured, tested and supplied with the highest assurance measures in place.



- Quality Management Systems are in place with SAI Global Certification to ISO 9001 with strict quality control processes in place.
- A continuous program of sampling and testing for specified properties including dimensional tolerance and tensile strength.
- Tensile load tests verify material design strengths remain in compliance with the technical information published in the Reid™ Design Guide and Standard Design details.
- ReidBar™ Connection Systems achieve a minimum ultimate tensile strength greater than the ReidBar™ 500N Grade Reinforcing Bar.
- Minimum ultimate tensile strength for the ReidBar™ system is deemed a ductile 'Nominal Bar Break' system as the mode of failure is bar yield and rupture.
- Quality Management of ReidBar™ Systems ensure traceability of product back to supplier ISO Quality Systems enabling retention of batch and test certificates including traceability back to raw material level. Unique reference/batch identification can be traced back to the manufacturing date, batch testing and raw material records.
- All Quality testing procedures and results are independently verified as part of our ISO 9001 certification.



## Customer Service

### Reid™ Australia

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