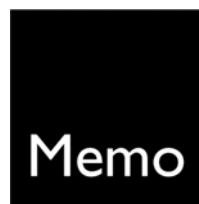


From Geoff Ayton, Rigid Pavements Unit  
Cc:

Date: 9 Sept 2010  
Ref:  
Pages: 3



## Australian Certification Authority for Reinforcing Steels (ACRS)

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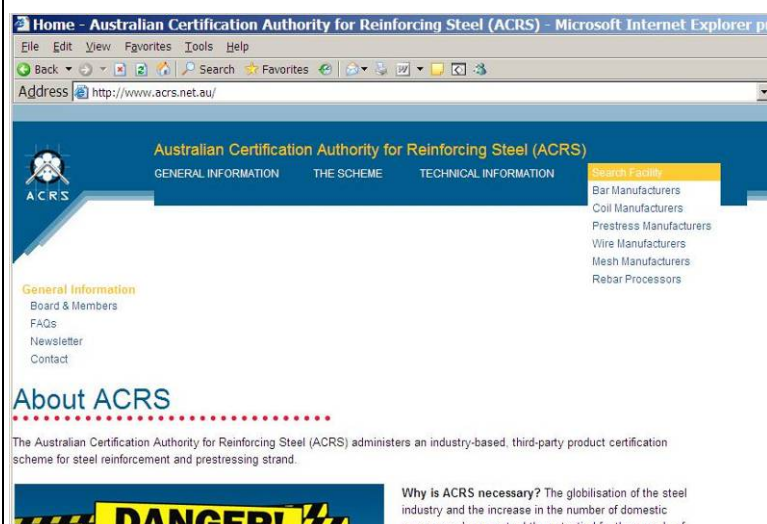
The following information is provided to supplement my email dated 20 Aug 2010 (copy attached) regarding ACRS certification for steel supply.

For site staff wishing to verify acceptability of steel supply under concrete pavement specifications R82, R83 and R84, there are essentially only 3 steps to follow :

1. Certificates
2. Markings
3. Tags

### Step I: Check that the proposed supplier is ACRS certified



- (a) Go to [www.acrs.net.au](http://www.acrs.net.au)
- (b) Click on the 4<sup>th</sup> tab labelled: "Certificate Holders"
- (c) Select the menu item according to the type of product (ie bar, mesh, wire etc) or the process (eg manufacture or processors)
- (d) If your proposed supplier doesn't appear on the list, they are not ACRS Certified (for that particular product or service).



## Step 2: Identify the manufacturer's bar marking

- (a) Within the column labelled "Markings", when you place your cursor over the appropriate manufacturer, you will be shown the exclusive bar markings for that company (and that particular product).
- (b) You need to assure yourself that all products delivered to site contain the correct markings.







The screenshot shows a web browser window with the address <http://www.acrs.net.au/bar.html>. The page title is "Bar Manufacturers". Below the title, there is a note: "Current Certificate holders are as follows (click on certificate numbers to see Scope of Certification details) NOTE: All certificates are current for the financial year, 1 July to 30 June." Below this is a table with columns: Company, Location, Status, Certificate Number, Markings, and Tags. Two rows are visible:

Company	Location	Status	Certificate Number	Markings	Tags
OneSteel Manufacturing	Rooty Hill, NSW Australia	Certified	31101B		<a href="#">VIEW</a>
OneSteel Laverton Steel Mill	Laverton, VIC Australia	Certified	31102B		<a href="#">VIEW</a>

## Step 3: Identify the manufacturer's tag

- (a) Repeat Step 2 under the column labelled "Tags".

The screenshot shows the same ACRS website as in Step 2, but with the "Tags" column expanded. It shows three rows of data:

Company	Location	Status	Certificate Number	Markings	Tags
OneSteel Manufacturing	Rooty Hill, NSW Australia	Certified	31101B		
OneSteel Laverton Steel Mill	Laverton, VIC Australia	Certified	31102B		
NatSteel Holdings Pty Ltd	Singapore Mill Singapore	Certified	40502B		

Below the table, there are labels for "Bundle Bars" and "Individual Ba".

This is essentially the completion of the process. If the above steps have been followed and verified:

- **there is no need for further product testing, and**
- **no test certificates are required.**

By way of explanation, AS/NZ 4671-2001 provides four ways by which compliance can be demonstrated; see Appendix A.

The ACRS scheme fits within Clause A3: *Product Certification*.

### A3 PRODUCT CERTIFICATION

The purpose of product certification is to provide independent assurance of the claim by the manufacturer that products comply with the stated Standard.

The certification scheme should meet the criteria described in HB 18.28 (SANZ HB 18.28) in that, as well as full type testing from independently sampled production and subsequent verification of conformance, it requires the manufacturer to maintain effective quality planning to control production.

The certification scheme serves to indicate that the products consistently conform to the requirements of the Standard.

ACRS undertakes testing and checking in accordance with Clause B6 of Appendix B.

**B6 DETERMINATION OF LONG-TERM QUALITY LEVEL**

**B6.1 General**

Test results for the material tensile parameters  $R_e$ ,  $A_{gt}$  and  $R_m/R_e$  shall be continually collected from the batch testing program, grouped under the same designation (see Clause 5.2) and their long-term characteristic values determined statistically in accordance with Paragraph B6.2.

A1 For each parameter, the determinations shall be made on a continual basis (but at intervals of not more than one month), covering the preceding six months test results or the last 200 consecutive test results.

NOTES:

1 The evaluation of long-term quality levels is based on the assumption that the distribution of a large number of test results is normal; however, this is not a requirement.

A1 2 The application of long-term quality compliance for mesh with respect to  $A_{gt}$  and  $R_m/R_e$  may be waived for Australia until the end of September 2003, while several statistical anomalies are resolved. It may be waived for mesh to be used in New Zealand where all batch test results are above specified values.

Further information is available from the ACRS website. In particular, the following documents are recommended:

Go to the tab labelled "The Scheme"

Select "Scheme Documents"

The following documents are recommended.

 <p><b>UNDERSTANDING YOUR ACRS CERTIFICATE</b></p> <p>Updated March 2010</p>	 <p><b>CERTIFIED REINFORCING STEELS - RISK or RISK MANAGEMENT</b></p> <p>ACRS Technical presentation</p> <p>Updated Sep 6 2010</p>
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