

# ptNEWS

Newsletter 1 - 2014



## PRESIDENT'S REPORT

As previously mentioned in our newsletters, the PTIA has been focused on attracting new members to our folds. We are excited to welcome Interspan to our growing number of member companies and we are sure the relationship will be of benefit to both the Institute and Interspan. The PTIA is currently talking to other Post-Tensioning Companies and look forward to welcoming such into our ranks.

2014 is shaping up to be an exciting year. With unit and housing prices on the increase we see a growing demand for new unit stock this year. With the speed of installation of post-tensioning in large scale residential projects, the benefit of completing and selling units quicker in the hot market makes post-tensioning an attractive option in the current market.

Our first networking night after our AGM late last year was a great night and we look forward to an increasing number of these events this year

for people within the industry and related industries to catch up and compare notes. In fact, our February Board meeting will be finalising plans for a number of Member Events in Sydney, Brisbane and Melbourne during

2014. These events will aim to present Members and guests with up to date information on industry action as well as new technical and training developments from PTIA. Our new series of Guidance Notes is finally about to be uploaded to our website, and we see these as a means of providing members and the PT industry with valuable information for quality and safe PT construction.

The directors of the PTIA are excited about where we are heading in 2014 and look forward to your involvement and support over the next year.

We look forward to seeing you at our 2014 events.

Andrew Castle  
PRESIDENT

*With unit and housing prices on the increase we see a growing demand for new unit stock this year.*

## RPLs now available through web based training facility

The PTIA, in conjunction with ACI Global, has implemented a process for assessing Recognition of Prior Learning and Current Competence (RPL) for the Mono-strand Post-tensioning course CPCCSF3002A.

This will assist those employees with extensive industry experience obtain a nationally recognised qualification in place of completing the full course.

For details about the course, and to register go to the PTIA website "News and Events" page, or use this link: <http://www.aciglobal.com.au/PTIA.php>



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# ONESTEEL – LOW RELAXATION STRAND TESTING FACILITIES

## HIGHLY STRESSFUL AND NEVER RELAXED!

When it comes to testing its LR Strand, OneSteel Wire takes its strong reputation in the market very seriously (and ensures the workers never relax on the job!). OneSteel Strand is the only Australian Made strand and due to the complete vertical integration of its business, OneSteel controls and measures every facet of the manufacturing process from mining the iron ore to the manufacture of high quality, consistent PC strand.

OneSteel Wire Pty Ltd operates manufacturing facilities in Newcastle, Geelong and Jindera. These facilities have the capacity to produce steel wire and related products including Barbed wire, Mesh, Netting, Fence Posts, Fabricated Rural Fencing products, Gates and Silos, Bright, Galvanised and coated wires for manufacturing applications, Reinforcing Wire, low relaxation 7-Wire Strand and Indented Wire.

Testing is an integral part of OneSteel's Quality Assurance programme, whether it is testing of incoming raw materials, in-process or finished product destined for despatch. Together with mechanical testing and chemical testing, visual inspection is also essential in ensuring only product which meets customer requirements is processed and despatched.

### Testing of Low Relaxation 7-Wire Strand

7 - Wire stress relieved prestressed concrete products undergo real time testing in one of six fully equipped, computerised NATA Accredited Mechanical Testing Laboratories strategically located on the Newcastle Wire Mill site.

To determine the relaxation characteristics of stress relieved strand, relaxation testing is carried out on specially designed horizontal test rigs, under strictly controlled conditions in an associated facility also at the OneSteel Strand Manufacturing site.

The duration of each test is nominally 1000 hours. However, short duration tests of 336 hours can be carried out if specific requirements outlined in AS/NZS 4672 are met. Comparison samples are submitted to independent testing authorities regularly and results are compared to ensure process capability.

Test data is also submitted to ACRS and the Queensland Government Department of Transport and Main Roads (TMR) for evaluation, ensuring OneSteel's ongoing supply of 7 - Wire stress relieved prestressed concrete products consistently meets and exceeds both customer expectations and the requirements of AS/NZS 4672.

### Third party Audits and Accreditations

External Audits are regularly conducted at OneSteel - Newcastle Wire Mill by SAI Global, the National Association of Testing Authorities (NATA) and Australasian Certification for Reinforcing Steels (ACRS). Customer visits and audits are encouraged as a means of independently verifying the implementation and compliance of the quality assurance system and OneSteel – Newcastle Wire Mill's commitment to quality and customer satisfaction.

Continued Accreditations and product registrations held by OneSteel - Newcastle Wire Mill are:

1. Australasian Certification for Reinforcing Steels (AS/NZS 4672 and AS/NZS 4671)
2. National Association of Testing Authorities (AS ISO/IEC 17025)
3. SAI Global (ISO 9001)
4. Queensland Government Department of Transport and Main Roads (AS/NZS 4672; Q480)



Top: Lend Lease successful audit of testing facilities and QA process at Newcastle Strand Plant, Nov 2013

Second top: Temperature controlled environment room containing the 1000 hour relaxation testing rig

Above: Curvature testing of 15.2mm EHT Strand

Right: Micrometer testing 12.7mm line wire feed diameter at regular intervals



### Test Certificates

Test Certificates certify the finished product detailed in the report has passed stringent Quality Assurance tests, the culmination of hundreds of process steps within the supply chain.

All Test Certificates are endorsed with the world recognised emblem of the National Association of Testing Authorities (NATA) and only test results for which OneSteel - Newcastle Wire Mill is NATA accredited are reported. ...CONT/p4

## MONO STRAND POST TENSIONING GUIDANCE NOTE

The Post-tensioning Institute of Australia (PTIA) recognises the need for assistance in providing the Post-tensioning industry with information in order to improve workplace quality and safety. With the assistance of its members and their employees, the PTIA has produced Guidance Note GNo3 for Mono-strand Post-tensioning of Concrete Buildings.

The Guidance Note has been produced to provide employers, self-employed persons, employees, principal contractors, suppliers of components and others involved in using Mono-strand Post-tensioning systems with practical advice on the safe Mono-strand Post-tensioning of concrete buildings.

The Guidance Note sets out practical guidelines designed to prevent injury to persons engaged in, or in the vicinity of, the process of Mono-strand Post-tensioning and identify and manage the risks involved.

The Workplace Health & Safety Act, specifies a person conducting a business or undertaking has a primary duty of care to ensure, so far as reasonably practicable, the health and safety of workers at work in the business or undertaking. This duty of care includes providing information, training and instruction to protect persons from risks to health and safety arising from work. To facilitate this obligation, along with producing this Guidance Note, the PTIA also offers training and assessment for the national unit of competency CPCCSF3002A Carry out Mono-strand Post-tensioning.

This is one of a series of Guidance Notes which will be progressively added to the PTIA website.

To download a free copy of the Guidance Note for Mono-strand Post-tensioning of Concrete Buildings or to make an enquiry about training, visit our web site at [www.ptia.org.au](http://www.ptia.org.au) – see “Downloads” page for the Guidance Notes.



### INTERSPAN JOINS PTIA AS CORPORATE MEMBER

Interspan is pleased to be a new member of the Post-tensioning Institute of Australia and we look forward to working together with the Institute to promote the use of post-tensioned concrete in Australia. The PTIA seeks to maintain an industry with high standards in design and construction with a particular emphasis on training, quality and design – principles that we strongly adhere to.

Interspan has been in operation for nearly eight years, with offices in Sydney, Melbourne, Vietnam, Dubai and London. We are dedicated to client service and product delivery. Interspan combines traditional values of integrity and loyalty with innovation and unique thinking.

These traits have enabled Interspan to achieve substantial and sustained growth in a continually changing market.

Post-tensioned concrete remains a technologically advanced method and as such should be undertaken by those with the requisite skills and qualifications. Interspan retains a large and talented pool of engineers skilled in the application of these methods, with a strong focus on achieving value and economy. Similarly, our operation is carried out by experienced and qualified managers and supervisors, supported by fully compliant Quality, OH&S and Environmental systems.

All NATA endorsed Test Certificates make a clear statement of, but not limited, to:

- Sample identity
- Test result
- Unit of measurement
- Compliance with specification
- Reference to Standards

Test Certificates with the NATA emblem also contain the statement:

"Accredited for Compliance with ISO/IEC 17025. The results of the tests, calibrations and /or measurements included in this document are traceable to Australian/National Standards..."

### Conclusion

OneSteel Wire is committed to continually improving the Quality Assurance System to exceed the requirements and expectations of its customers and improve the overall management of the organisation. The many activities which have been implemented to improve customer focus throughout OneSteel – Newcastle Wire Mill are a testament to this.

### For further information contact:

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### Technical Seminars

PTIA is preparing a new series of seminars for 2014. These will be presented through Concrete Institute of Australia branches. Details will be posted to the PTIA website soon.

### Training Course

The PTIA Monostrand Post-Tensioning Training course (CPCCSF3002A), including assessment for Recognised Prior Learning (RPL) can be accessed through the "News and Events" page of the PTIA website – [www.ptia.org.au](http://www.ptia.org.au)

### Networking Events

PTIA will also introduce occasional technical and networking events throughout the year. These will be aimed at presenting new or updated technical information related to PT, and to discuss topical industry matters with members and guests. Again, details will be posted to the PTIA website soon.

Please visit:  
[www.ptia.com.au](http://www.ptia.com.au)  
or email:  
[info@ptia.org.au](mailto:info@ptia.org.au)  
for more information



## MEMBER COMPANIES

### Corporate Members

Australian Post-Tensioning Pty Ltd

Australian Prestressing Services Pty Ltd  
(founding member)

Interspan (NSW) Pty Ltd

Structural Systems Pty Ltd  
(founding member)

### Associate Members – suppliers

Ancon Building Products

OneSteel Wire Pty Ltd

RefoBar Australia

Severs Technical Systems Pty Ltd

### Associate Members – consulting engineers

ABC Consultants

Arup

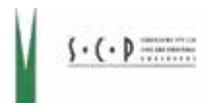
Bornhorst + Ward Pty Ltd

Costin Roe Consulting Pty Ltd

Hyder Consulting Pty Ltd

McVeigh Consultants Pty Ltd

SCP Consulting Pty Ltd



## "ENSURING EXCELLENCE AND ACCREDITATION FOR THE POST-TENSIONING INDUSTRY"

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