STANDARDS Australia 100

CELEBRATING 100 YEARS 1922-2022

National Symposium on GFRP Bars

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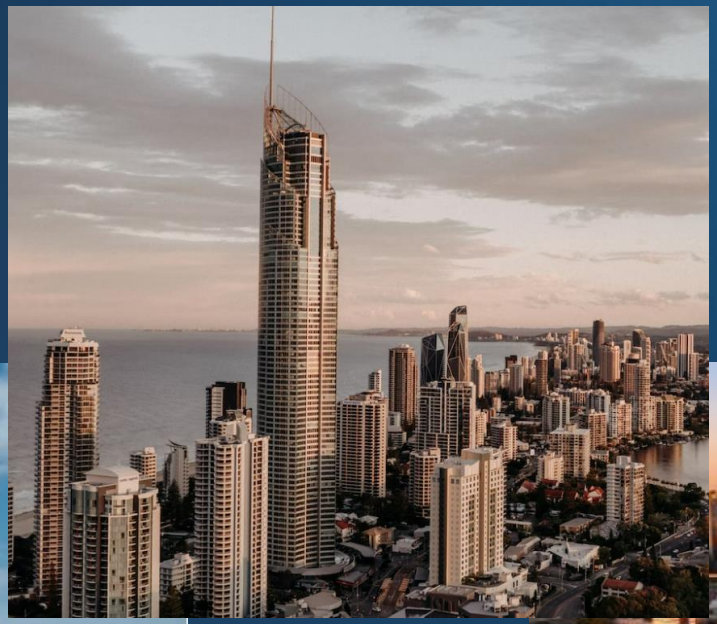
Agenda

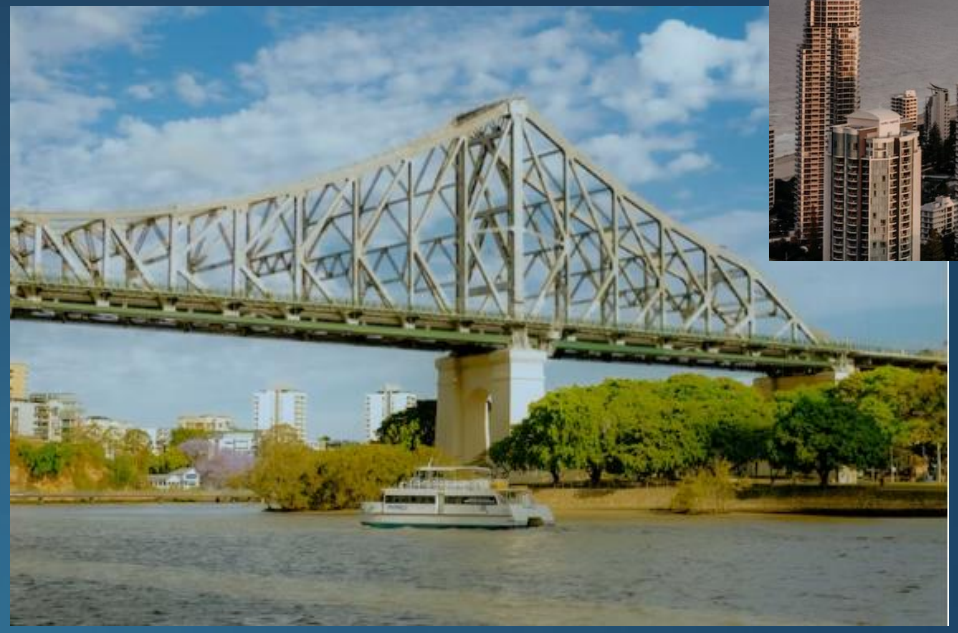
- Who we are
- Iconic structures & standards
- Process and lifecycle of standards
- How you can get involved
- NEXTGen program
- Proposal info

Who we are

- National Standards Development - industry-led program of work
- International Participation - ISO and IEC
- Accreditation of standards development organisations

Iconic Structures





What drives standards development?

Policy

Market need

New product developments

Regulatory changes

Standards development lifecycle

How can you participate in standards?

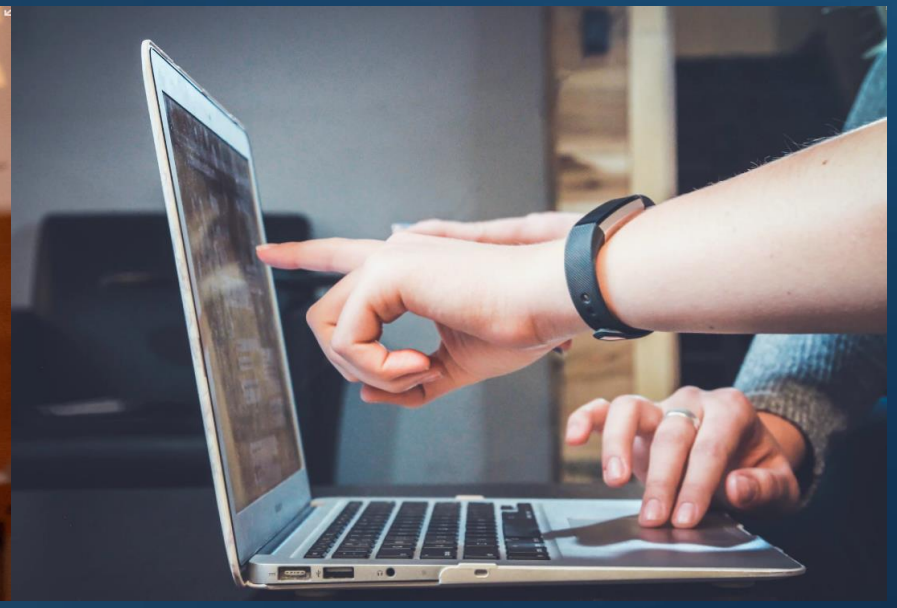
Proposals

Technical Committees

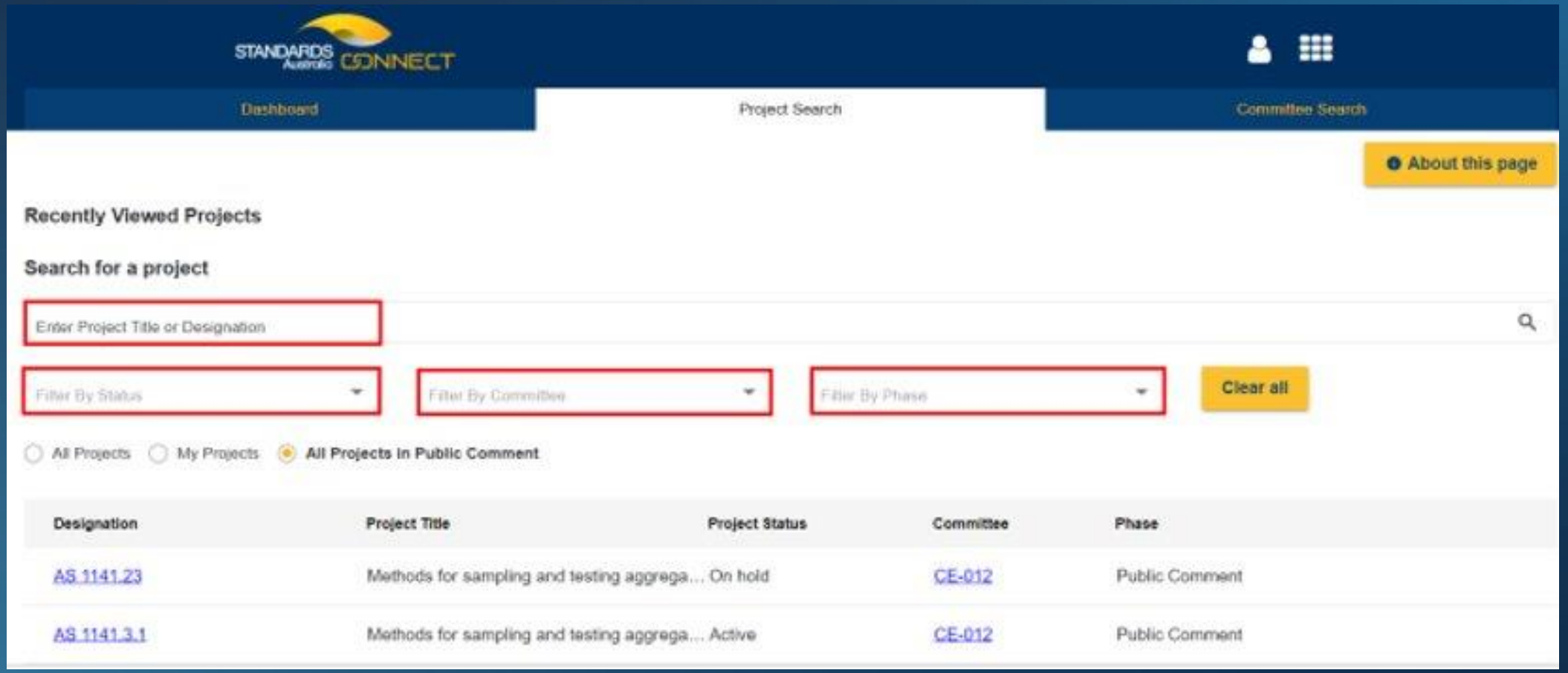
Working Groups

Public Comment

New Proposal system



New Public Comment system



BOOTCAMP

NEXTgen

NEXTgen LEADERS

10 month professional development program for up and coming industry professionals to learn more about the standardisation process

Opportunity to get involved with a for-purpose organisation

Runs annually from August – May

- Applications are open from May – June each year
- Open to 25 individuals
- Participants take part in full day workshops and smaller webinars detailing how committees work, how to write a standard, how to build a personal brand
- Each participant has a personalised mentor to provide an insider's view
- Networking opportunities
- Direct exposure to committees in their field of expertise

Blake Mortimer

"Working as an Engineering Support Manager for Daikin Australia, I refer to standards daily to carry out my job. After attending several industry nominating group meetings, I developed a keen interest to understand the process as to how standards are developed and why. After completing the NEXTgen Program, I now have a better understanding of that process and can better interpret the standards I work with. I plan to put my knowledge to use in the Australian Standards committee I have recently joined."

Proposal Process

Key Quality Criteria for a Project Proposal

Need for the work

Scope

Net Benefit

Stakeholder Support

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Need for the work

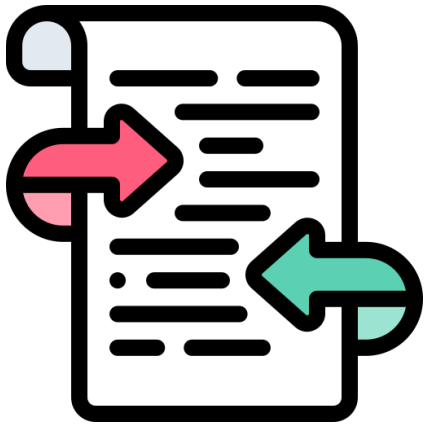
1. Evidence of the current problem
2. How will the proposal solve the problem?
3. What are the consequences of no action?
4. Is there a need to adopt an international Standard?

Need for the work

1. Corrosion of steel reinforcing bar is a problem in concrete structures
2. This problem may be exacerbated due to rising temperatures
3. FRP bars have high-tensile strength, non-corrodible, lightweight
4. Unkown performance and properties of FRP bars in Australia – standard will ensure a level of consistency and structural quality of these bars

Scope

New Standard

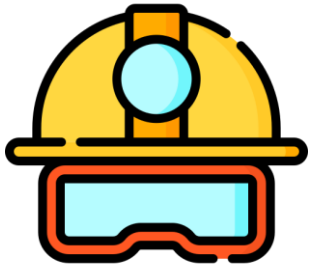


Existing Standard

Scope

- Preface
- Introduction
- Scope
- Normative References
- Terms and definitions
- Notation
- Classification and designation
- Manufacturing methods
- Material, mechanical, and geometric requirements
- Quality of finished bar
- Demonstrating product conformity
- Product marking/identification for QA purposes
- Identification and certificates
- Appendices
- Bibliography

Net Benefit



Public Health and Safety

Social and Community Impact

Environmental impact

Competition

Economic Impact

Net Benefit

Public Health & Safety

- FRP bar standard should result in safe, reliable infrastructure used by millions of people = positive impact to public health & safety
- FRP bars eliminate corrosion which eventually causes failures in structures, representing a clear public health & safety hazard

Social & Community

- Designers, engineers, manufacturers, suppliers and others will be more confident with a specific standard on FRP bars
- FRP bars ensuring infrastructure is resilient = benefit to Australian communities

Net Benefit - continued

Environment

- Smaller carbon footprint than steel bars
- Increased durability = longer design life of concrete structures

Competition

- FRP bars have high degree of variability – FRP bar standard = consistency
- Consistency in Aus. market = levelling the playing field among manufacturers/suppliers

Economy

- The use of FRP bars in infrastructure can contribute to longer service life of public infrastructure
- Australia spent $460 million AUD on bridge maintenance and rehabilitation in 2009-10. The use of FRP bars in public infrastructure could potentially lower that cost

Stakeholder Support

Government Organisations

Consumer and Community Interests

Employer Representative Bodies

Industry, Professional and Technical Associations

Manufacturers, Importers and Suppliers

Regulatory and Controlling Bodies

Research & Academic Organisations

Testing Bodies

User and Purchasing Bodies

Unions and Employees

Overview | Need for Work | Scope | Net Benefit | **Stakeholder Support** | Additional

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Questions

Contact us at: sem@standards.org.au


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