



LOOK FOR ICCONS[®] NCC LOGO TO ENSURE YOU ARE USING COMPLIANT PRODUCTS



1. **What is SA TS 101:2015?**

SA TS 101:2015 is a technical specification (TS) published by Standards Australia that outlined the minimum requirements for the design, testing and assessment of cast-in anchor channel and post installed fasteners. This document has been superseded by **AS 5216:2018**.

2. **What is AS 5216:2018?**

AS 5216:2018 (Design of post-installed and cast-in fastenings in concrete) is an Australian Standard published by Standards Australia that outlines the minimum requirements for the selection, design, and assessment of cast-in anchor channel and post installed fasteners and supersedes **SA TS 101:2015**. The technical content is the same with the addition of some editorial modifications and corrections.

3. **Does SA TS 101:2015 still apply to the building and construction industry?**

On May 1st 2019 the National Construction Code (NCC) was updated to include **AS 5216:2018** as a referenced document in Building Code of Australia (BCA) Volumes 1 & 2. {Ref. Vol. 1 clause B1.4 (b) (iii) and Vol. 2 clause 3.0.4 (e)}.

AS 5216:2018 superseded **SA TS 101:2015**, and is the official document to follow when complying with the deemed-to-satisfy requirements.

4. **What is covered by AS 5216:2018?**

Post Installed fasteners for 'Safety Critical' applications in concrete only.

5. **What is 'Safety Critical'?**

Safety critical applications are where failure may endanger human life, result in collapse or partial collapse of the structure, and/or cause considerable economic loss.

6. **What isn't covered by AS 5216:2018?**

All other types of fastening design including seismic design, fire design and stress development of rebar (ref. to AS3600) etc... For applications outside the scope of **AS 5216:2018** please refer to anchor manufacturers for guidance.

Can I use a fastener with an ETA (European Technical Assessment/approval)?

Yes, products that carry a current ETA comply with the requirements in **AS 5216:2018**. A suitably qualified design engineer must determine suitability of these fasteners prior to use.

7. **Do I need to comply with SA TS 101:2015 & 2016 NCC?**

If your building is designed (post 1st May 2016 & pre 1st May 2019) and referenced according to the 2016 NCC and is based on a deemed to satisfy solution, which most buildings are, then all post-installed fasteners must comply with **SA TS 101**. This requirements is a mandatory and legal obligation.

8. **Do I need to comply with any standards for applications outside the NCC such as Infrastructure projects?**

For safety critical applications in concrete only all post-installed fastenings must be designed in accordance with **AS 5216:2018** where applicable.

9. **Can I use a fastener with an ETA (European Technical Assessment/approval)?**

Yes, products that carry a current ETA comply with the requirements in **AS 5216:2018 / SA TS 101:2015**. A suitably qualified design engineer must determine suitability of these fasteners prior to use.



10. *Is any ETA assessed product ok?*

No, ETA compliant products must be designed for a specific application by a suitably qualified design engineer responsible for the application.

11. *Can I use a non-ETA assessed product?*

Yes, provided you;

a) Follow an NCC Performance Solution (previously Alternative Solution method) and have the design engineer responsible for the application sign off on the data & product.

b) Submit testing & certification report on the proposed product that states compliance with either **AS 5216:2018 Appendix A** or **SA TS 101:2015 Appendix B**. (Ref. –"Compliance with the NCC", <http://www.abcb.gov.au/Resources/Publications/Education-Training/Compliance-with-the-NCC>).

12. *Can ICCONS help me with compliance to AS 5216:2018 / SA TS 101:2015?*

Yes, ICCONS has a comprehensive range of ETA assessed and **AS 5216:2018 / SA TS 101:2015** compliant mechanical and chemical anchoring systems for post-installed applications, please refer to www.iccons.com.au .

13. *What about Brace Inserts?*

Brace inserts for bracing of concrete prefabricated panels must comply with AS 3850.1:2015 appendix A9. Refer to the ICCONS PBA20115 anchor.

14. *Are temporary applications covered in AS 5216:2018 / SA TS 101:2015?*

No, temporary applications are not covered in **AS 5216:2018 / SA TS 101:2015**, please refer to product manufacturer/supplier for guidance.

15. *How is the NCC enforced?*

NCC requirements are legally binding, governed by States and Territories Building Acts, and enforced by Building Certifiers/Surveyors.

16. *Where does liability rest if a wrong fixing is used and something fails?*

Liability rests with everyone involved in the construction and building process. Designers must specify suitable products, contractors must source and use those products and suppliers/distributors must supply suitable products. Builders & Contractors must ensure sign-off by Building Certifiers. Those in the chain that do not comply make themselves legally liable!

17. *As a distributor of post installed chemical and mechanical anchors, what are my obligations?*

Always ask your customer the question – Is your application "Safety Critical"???

If the answer is "YES" supply **AS 5216:2018** complaint fixings for all applications that are safety critical. If your customer cannot ascertain if their fixing needs are safety critical, simply supply a product that is **AS 5216:2018** compliant. Don't take the risk!

Products should always be approved before use by a design professional responsible for the application.