

NZS3101.1&2:2006 Amendment 3 and ReidBar™ Components

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The recent update of NZS3101.1&2:2006 Concrete Structures Standard (Amendment 3) contains new provisions.

What has changed in Amendment 3?

- a. Mechanical anchors and couplers manufactured from cast-iron are not permitted in Amendment 3.
- b. Reference to ISO 15835-1 and 2, Residual Elongation and High Cycle Fatigue respectively.

When does the new NZS3101 Amendment 3 take effect?

NZS3101:2006 Amendment 3 was cited in the New Zealand Building Code on April 1st, 2018. There are two stages of Grace Periods, which apply to cast-iron mechanical anchor and coupler systems.

- **1st April – 2nd July:**
General NZS3101:2006 Amendment 3 grace period. Engineers may design to either Amendment 2 or Amendment 3 for buildings consented during this period, both considered valid.
- **3rd July – 1st November*:**
Additional grace period which applies to cast-iron mechanical anchors and couplers. Engineers must design to Amendment 3, with the exception that cast-iron mechanical anchors and couplers may be specified in buildings consented up to 1st November 2018.
- **2nd November onwards:**
Amendment 3 in full effect. Cast-iron mechanical anchors and couplers are not permitted.

*** Reference:**

<https://www.building.govt.nz/assets/Uploads/building-code-compliance/b-stability/b1-structure/asvm/b1-structure-1st-edition-amendment-16.pdf>

How does the above affect ReidBar Components?

System Performance Requirements:

Building Consent Timeframe	General Amendment 3 Grace Period	Amendment 3 additional Cast-Iron Grace Period	Amendment 3
<p>Epcon™ C8 XTREM™ Filler</p>	<ul style="list-style-type: none"> • Amendment 2 - recommended • Amendment 3 - Required 	Epcon C8 Required	Epcon C8 Required
Cast-Iron Mechanical Anchor & Couplers	Permitted	Permitted	Not Permitted

Summary of ReidBar Couplers and Anchors Range:

Type	To Suit Bar Size	Finish	SG Cast Iron Product Codes	Steel Product Codes	
 Coupler	12 mm	Plain	RB12C	RB12CS	
		HDG	RB12CG	RB12CSG	
	16 mm	Plain	RBA16C	RBA16CS	
		HDG	RBA16CG	RBA16CSG*	
	20 mm	Plain	RB20C	RB20CS	
		HDG	RB20CG	RB20CSG*	
	25 mm	Plain	RB25C	RB25CS	
		HDG	RB25CG	RB25CSG*	
	32 mm	Plain	RB32C	RB32CS	
		HDG	RB32CG	RB32CSG*	
	 Flange Nut	12 mm	Plain	RB12FP	RB12FNS ***
			HDG	RB12FPG	N.A.
16 mm		Plain	RBA16FN**	RBA16FNS	
		HDG	RBA16FNG**	RBA16FNSG*	
20 mm		Plain	RB20FN**	RB20FNS	
		HDG	RB20FNG**	RB20FNSG*	
25 mm		Plain	RB25FN**	RB25FNS	
		HDG	RB25FNG**	RB25FNSG*	
32 mm		Plain	RB32FN**	RB32FNS	
		HDG	RB32FNG**	RB32FNSG*	
 Threaded Insert		12 mm	Plain	RB12TI	RB12TIS
			HDG	RB12TIG	RB12TISG
	16 mm	Plain	RBA16TI	RBA16TIS	
		HDG	RBA16TIG	RBA16TISG	
	20 mm	Plain	RB20TI	RB20TIS	
		HDG	RB20TIG	N.A.	

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Notes: *Currently available ReidBar Steel Components Range. **Please note 16mm to 32mm Flange Nuts will be transitioned towards the steel equivalents imminently. ***RB12FNS currently at validation testing stage, test outcome ETA late November 2018. All other steel products in this table are in a stock build up phase, with first shipment arriving November 2018.

How about projects which have been designed with SG Cast Iron ReidBar Components?

ramsetreid are committed to continue the supply of SG Cast Iron ReidBar Components to ongoing and commencing projects until their completion. As it is important that we are aware of upcoming requirements for your projects, please contact our Engineering Team at emanuele.naccini@ramsetreid.co.nz to coordinate your project requirements.

If you have any questions about this communication, please contact your ramsetreid representative or Phone ramsetreid Engineering Services 0800 88 22 12