

Ramset™ Face Lift Anchors

Compliance Document

Ramset™ Face Lift Anchors comply with
NZ Good Practice Guidelines:
safe work with precast
concrete 2018

Ramset™ Face Lift Anchors

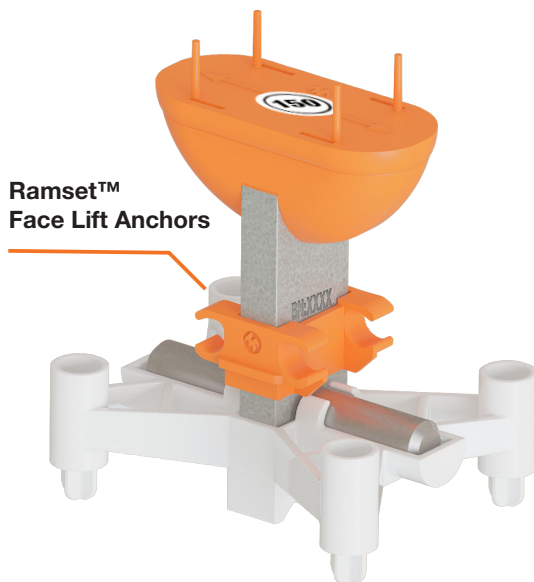


Consistent with Reid's commitment to local testing, Ramset™ Face Lift Anchors have been extensively tested in Australian concrete.

Analysis of the subsequent test data in accordance with NZ GPG 2018 results in Ramset Face Lift Anchors having Working Load Limit capacities that are far higher and more accurate than those simply calculated using the CCD method applicable for footed anchors. **This product meets the building code requirements for durability B2 Durability, B2.3.1**














Figure 1:
Ramset™ Face Lift Anchors



Compliance Details

Table I: NZ GPG 2018 Compliance Details

Clause	Requirement	Compliant
2.2	The Working Load Limit has been determined by testing in accordance with Appendix A, using a FOS per Table 2.1.	
2.5.1	Manufactured from ductile steel.	
2.5.2.1	WLL determined per clause 2.2.	
	Manufactured from steel that is fully killed, with a grain size of six or finer & exhibiting not less than 20% elongation.	
	When loaded to tensile failure, a ductile failure and plastic deformation is observed and the failure surface is 100% fibrous.	
	Insert assembly including void former shall be marked to ensure compatibility with other system components.	 Refer Figure 2
A2	Concrete for testing complies with AS 1379, tested per AS 1012.	
A3	Testing and recording of results.	
A4	Statistical evaluation of test results, using formula A4, $X_k = x(1 - k_s \text{COV})$.	
A5	Production Validation through testing to confirm compliance of critical specification requirements (dimensions, material properties and load bearing capacity where appropriate).	
A6	Tension testing of the manufactured lifting insert.	
A7	Characteristic capacity determined from a comprehensive test program including individual and combined effects per Table A3.	

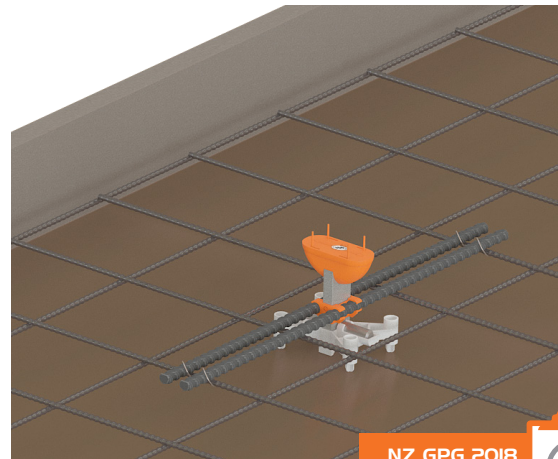
Reid™ Edge Lift Anchors with Feet comply with, NZ GPG 2018



Ramset™ Face Lift Anchors

A fully featured FaceLift system with the security of additional reinforcing which provides durability and maximises safety.

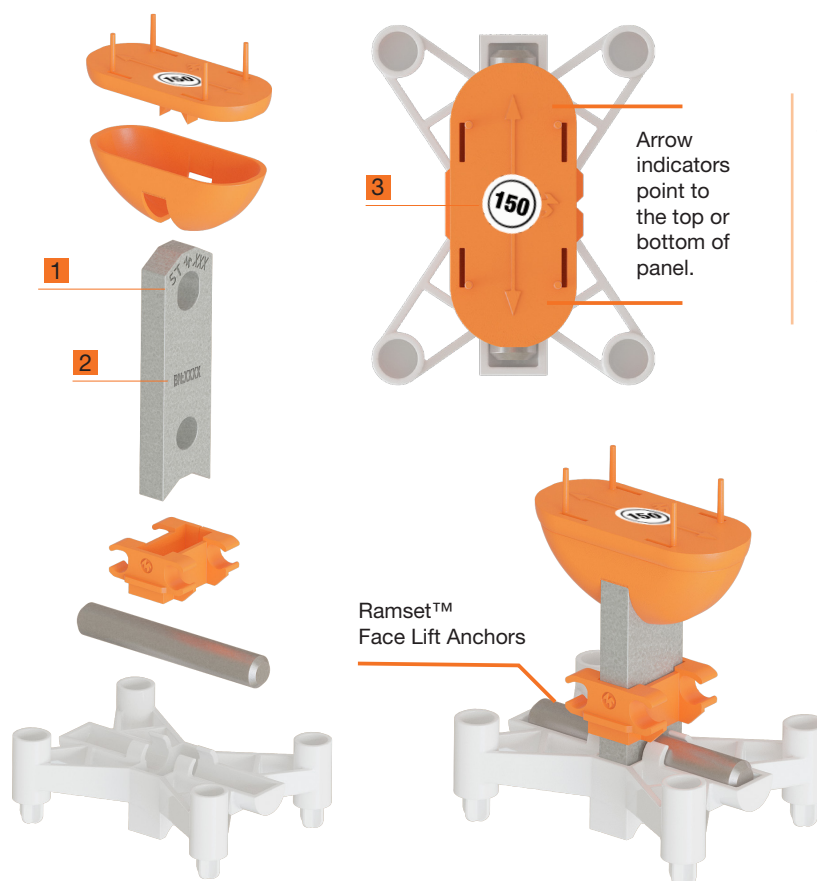
- Solid fixing into reo/mesh via integral bar clip.
- Floating bar clip floats with mesh to prevent anchor movement when trafficked.
- Complies with NZ GPG 2018 for concrete cover.
- Full plastic underside protection to maximise concrete cover and withstand collisions.
- Easy and fast void removal.
- Increased safety with built-in redundancy and guaranteed ductile failure mode in case of concrete failure or overloading.



NZ GPG 2018
Compliant



Figure 2: Ramset™ Face Lift Anchors



NOTE:

The Ramset™ Face Lift Anchor must be placed as per the arrow indicators on the top of the Void Former.

Product Specifications

Table 2: NZ GPG 2018 Performance Data (WLL)

Panel Thickness (mm)	Working Load Limit (Tonne)				
	Concrete Strength f_{cm} (MPa)				
	15MPa	20MPa	25MPa	32MPa	40MPa
125	2.44	2.56	2.67	3.50	4.46
150	4.13	4.57	5.00	5.00	5.00
175	4.25	4.62	5.00	5.00	5.00
200	4.25	4.62	5.00	5.00	5.00

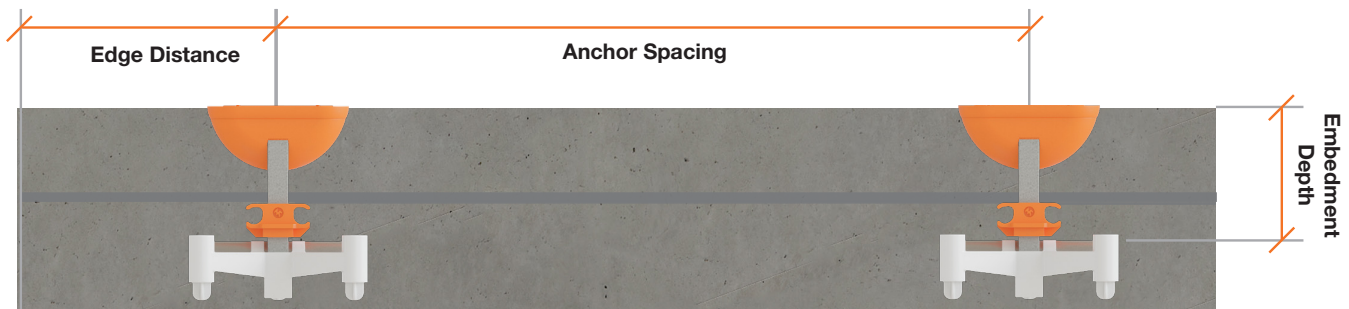


Table 3: Minimum Edge Distance and Anchor Spacing required to achieve performances in Table 2

Limiting Dimension	Concrete Strength f_{cm} (MPa)				
	15MPa	20MPa	25MPa	32MPa	40MPa
Edge Distance (mm)	400	370	340	310	290
Anchor Spacing (mm)	1200	1090	1010	930	870

Table 4: Part Number & Head Identification

Load Group (t)	Panel Thickness (mm)	Head Identification	Part Number
5	125	5TR107	FL050125B
5	150	5TR132	FL050150B
5	175	5TR152	FL050175B
5	200	5TR157	FL050200B

Reid™ Edge Lift Anchors with Feet comply with, **NZ GPG 2018**



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