reid™

May | 2024 NZ

Reid™ Face Lift Anchor Assemblies

Compliance Document

Reid™ Face Lift Assemblies comply with NZ Good Practice Guidelines: Safe Work With Precast Concrete 2018

Reid™ Face Lift Anchor Assemblies

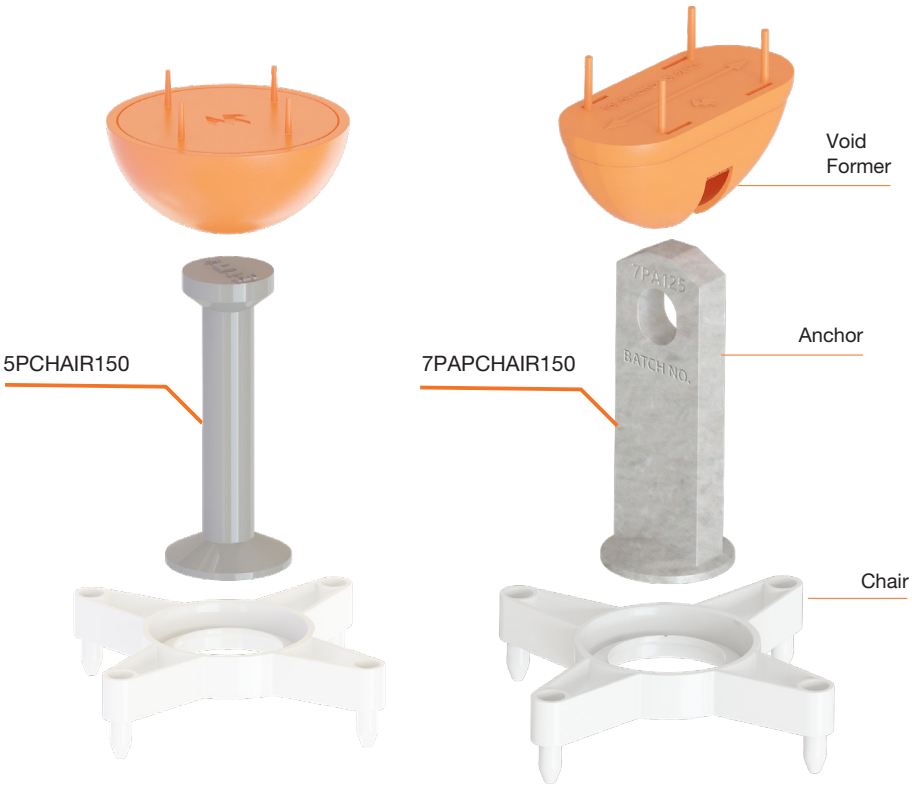
Consistent with the Reid's commitment to local testing, Reid™ Face Lift Anchor Assemblies have been extensively tested in Local concrete.

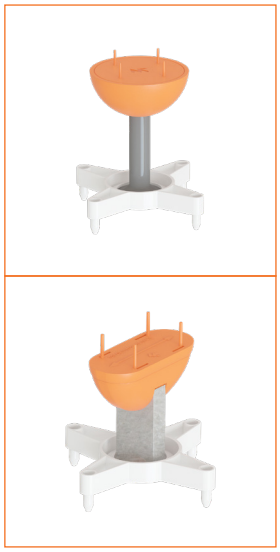
Analysis of the subsequent test data, completed in accordance with NZ GPG 2018 results in Reid™ Face Lift Anchor Assemblies having Working Load Limit capacities that are far higher and more accurate than those simply calculated using the CCD method applicable for footed anchors. **This product meets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

CHARTERED PE VERIFIED ENGINEER

NZ GPG 2018 Compliant

Figure 1:
Reid™ Face Lift Anchor Assemblies





Compliance Details

Table I: NZ GPG 2018 Compliance Details

Clause	Requirement	Compliant
6.6	The minimum FOS for general lifting needs to be 3 and for repetitive lifting needs to be 5.0.	✓
6.6	The design of the Lifting anchor shall include the ductile behavior and robustness of the anchor.	✓
10.11	Lifting clutches are to be made in accordance with a valid international standard or technical reference.	✓
10.11	Every item of lifting equipment should be clearly and permanently marked with its WLL. A unique numbering system to clearly identify individual items should be used.	✓
10.11	Lifting clutches are to be tested for loads in all directions and initially tested by the supplier to a factor of safety of 2.0	✓
10.11	Inspected at least every 12 months by a competent person, and a record kept of those inspections.	✓

Reid™ Face Lift Anchor Assemblies comply with, NZ GPG 2018 ✓

TESTED TO LOCAL CONDITIONS

Reid™ Face Lift Anchor Assemblies

NZ GPG 2018 Compliant

Reid™ offer many different Face Lift Assemblies, allowing for you to select the best option for your project.

- Complies with NZ GPG 2018 for concrete cover.
- Complete assembly, consisting of chair, anchor and void, allows for easy install without having to seek extra equipment.
- Easy and fast void removal.
- Increased safety with built-in redundancy and guaranteed ductile failure mode in case of concrete failure or overloading.

Figure 2: Reid™ Face Lift Anchor Assemblie Markings 5PCHAIR150

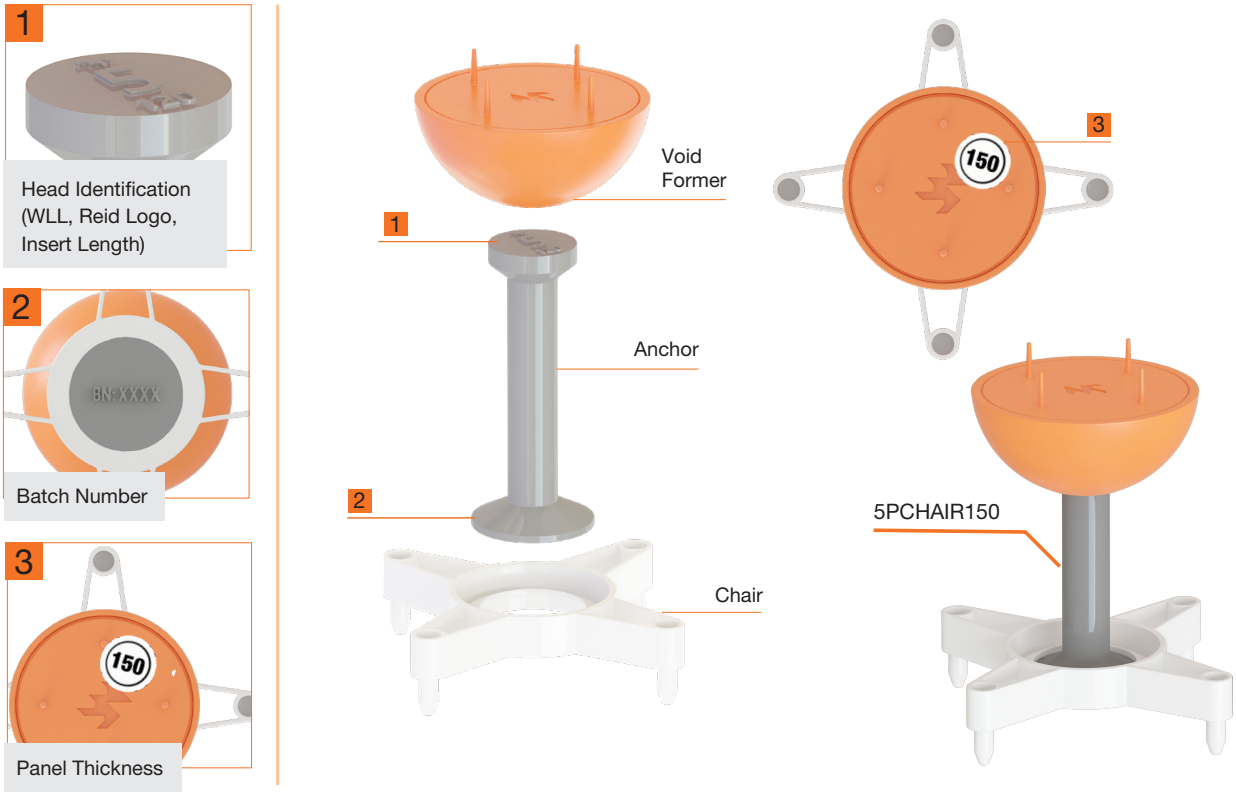
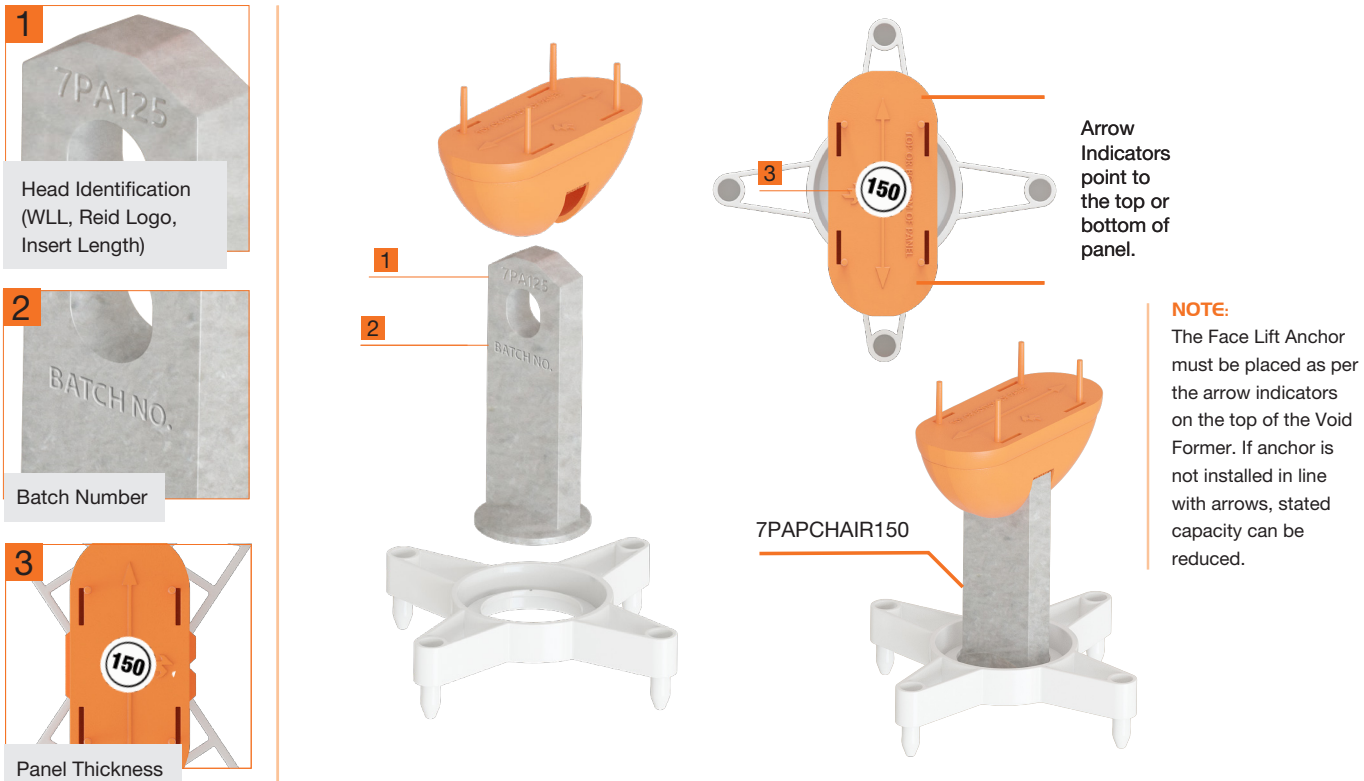


Figure 3: Reid™ Face Lift Anchor Assemblie Markings 7PAPCHAIR150

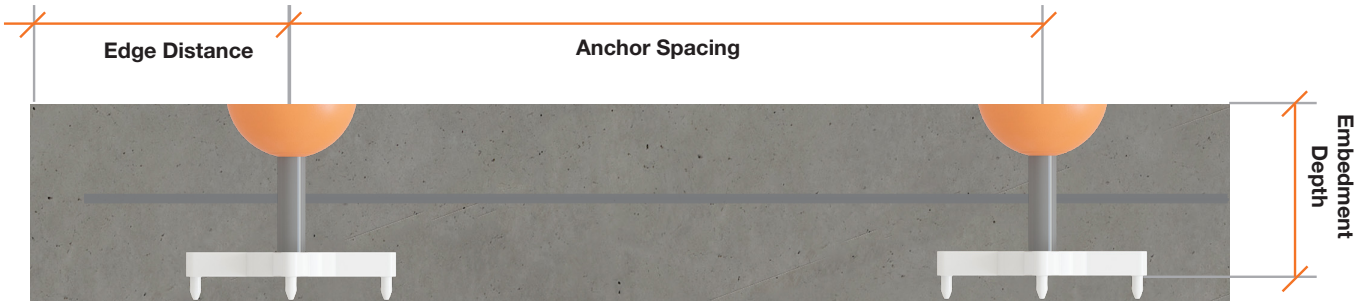


NOTE:
The Face Lift Anchor must be placed as per the arrow indicators on the top of the Void Former. If anchor is not installed in line with arrows, stated capacity can be reduced.

Product Specifications

Table 2: Face Lift Anchor Assemblie Working Load Limits (WLL)

Slab Thickness	Assembly Product Codes	Anchor Length	Concrete Strength at lift (MPa)							
			15	20	25	30	35	40	45	50
			Tensile Capacity (Tonne)							
150mm	5PCHAIR150	125	3.4	4.1	4.8	5.0	5.0	5.0	5.0	5.0
150mm	7PAPCHAIR150	125	3.3	4.0	4.7	5.0	5.8	6.4	6.8	7.0



Note: Image above is a generic representation of anchor locations and depicts a 5PCHAIR150. Locations also apply to 7PAPCHAIR150.

Table 3a: Minimum Edge Distance & Anchor Spacing required to achieve Table 2 performances

Part Number	5PCHAIR150	7PAPCHAIR150
Embedment Depth h_{ef} (mm)	130	130
Limiting Edge Distance e_m (mm)	390	390
Limiting Spacing a_m (mm)	780	780

Table 3b: Minimum edge and spacing distances to achieve WLL in Table 2 for shear towards an edge

Concrete Strength.		5PCHAIR150	7PAPCHAIR150
Minimum Edge Distance e_m (mm)	15MPa	560	
	25MPa		
Minimum Spacing a_m (mm)	15MPa	1520	
	25MPa		

Note: If conditions are outside stated parameters, please contact a Reid Engineer.

Table 4: Part Number & Head Identification

Load Group (t)	Panel Thickness (mm)	Head Identification	Part Number	Related Lifting Clutch
5	150	5 / 120	5PCHAIR150	5LE
7	150	7PA125	7PAPCHAIR150	7ELALE or 3DX7NLC

Reid™ Face Lift Anchor Assemblies comply with, NZ GPG 2018

TESTED TO LOCAL CONDITIONS

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