



CODEMARK®

Certificate No: BRANZ-CM-1024

Date of Issue: 01 October 2020

Revision Date: 01 October 2023

CERTIFICATE HOLDER



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BRANZ Limited

JAS-ANZ



www.jas-anz.org/register

PRODUCT CERTIFICATE

THIS IS TO CERTIFY REIDBAR™ GROUT SLEEVE SYSTEM

KEY INFORMATION

1. DESCRIPTION OF PRODUCT

The ReidBar™ Grout Sleeve System includes ReidBar™ Grout Sleeves, ReidBar™ reinforcing bars, Ramset™ POZIFLO™ HS grout and Ramset™ Epcon™ C8 Xtrem™ filler. The ReidBar™ Grout Sleeves and the ReidBar™ reinforcing bars are identified with model and batch numbers. Model numbers are listed in Section 7. Ramset™ POZIFLO™ HS grout and Ramset™ Epcon™ C8 Xtrem™ filler are identifiable by the name and batch number.

2. USE OF PRODUCT

The ReidBar™ Grout Sleeve System is a reinforcing bar mechanical connector for precast concrete building elements, such as panels and columns. It is used to make connections to the building structure, where the connectors are in a vertical orientation.

3. COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Loads arising from self-weight, imposed gravity loads arising from use, earth pressure, water and other liquids, earthquake, snow, wind, impact and creep [i.e. B1.3.3 (a), (b), (d), (e), (f), (g), (h), (j) and (q)].

Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years and B2.3.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

4. CONDITIONS AND LIMITATIONS OF USE

- The reinforcing bars used in the ReidBar™ Grout Sleeve System must be ReidBar™ reinforcing bars.
- The system must not be used where the in-service temperature drops below -5°C.
- The system must not be used when it is subjected to high cycle fatigue.
- Installations must be subject to specific engineering design by a Chartered Professional Engineer.
- The ReidBar™ Grout Sleeve System must be designed and installed in accordance with the conditions and limitations of this Product Certificate and the Reference Documents.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.

This Certificate is issued by BRANZ Limited, an independent certification body accredited by the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the building method(s) or products(s) referred to in this certificate.

It is advised to check that this Product Certificate is currently valid and not withdrawn, suspended or superseded by a later issue, by referring to the MBIE website, www.mbie.govt.nz

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Information regarding BRANZ's complaints process can be found at the following link: [Complaints Process](#)



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Chief Executive Officer
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5. HEALTH AND SAFETY INFORMATION

Ramset™ POZIFLO™ HS is a cementitious based grout product. Manufacturers instructions and typical practices for working with and handling cementitious grouts should be observed.

Ramset™ Epcon™ C8 Xtrem™ filler is an epoxy based product. Manufacturers instructions and typical practices for working with and handling epoxy fillers should be observed.

6. REFERENCE DOCUMENTS

- ReidBar™ Grout Sleeve System - Installation Guide, August 2020.
- POZIFLO™ Grout HS - Technical Data Sheet, Part Number: RPGHS.
- Ramset™ Epcon™ C8 Xtrem™ Filler - Technical Data Sheet, date of issue: 27 March 2015.

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

7. SUPPORTING INFORMATION ABOUT DESCRIPTION OF THE PRODUCT

PRODUCT SPECIFICATION

The components of the ReidBar™ Grout Sleeve System supplied by RamsetReid are:

- **ReidBar™ Grout Sleeves** – in sizes suitable for splicing the ReidBar™ reinforcing bar listed below. The ReidBar™ Grout Sleeves are manufactured from Grade 600/3 spheroidal graphite cast iron, manufactured using a proprietary casting process. The ReidBar™ Grout Sleeves covered by this Product Certificate are:
 - RB12GS
 - RB25GS
 - RBA16GS
 - RB32GS
 - RB20GS

The ReidBar™ Grout Sleeves are marked with the model number and manufacturing batch number.

- **ReidBar™ reinforcing bar** – in 12 mm, 16 mm, 20 mm, 25 mm and 32 mm diameters. The ReidBar™ reinforcing bar is a continuously threaded, hot rolled Grade 500E reinforcing bar that is manufactured in New Zealand to meet the requirements of AS/NZS 4671. The deformed surface of the ReidBar™ gives the continuous thread. The ReidBar™ reinforcing bars covered by this Product Certificate are:
 - RB12
 - RB25
 - RB16
 - RB32
 - RB20

The Reidbar™ reinforcing bars are marked with the model and batch number.

- **Ramset™ POZIFLO™ HS** – a cementitious grout supplied in 20 kg bags with a shelf life of 8 months after date of manufacture. It is identified with the name and batch number on the bags.
- **Ramset™ Epcon™ C8 Xtrem™ filler** – two-part epoxy which is used in the threads of the ReidBar™ Grout Sleeve. It is supplied in 450 ml two component tubes with a shelf life of 2 years. It is identified with the name and batch number on the tubes.
- **ReidBar™ Grout Sleeve System accessories** - accessories are used in the precast yard to set up the system. These include ReidBar™ Grout Sleeve set-up hardware, ReidBar™ Grout Sleeve rubber bungs, PVC port tubes and PF rods.

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Chelydra Percy
Chief Executive Officer
BRANZ Limited

8. SUPPORTING INFORMATION ABOUT INTENDED USE OF THE PRODUCT

INSTALLATION REQUIREMENTS

Installation of the ReidBar™ Grout Sleeve System must be carried out by precast concrete manufacturers or building contractors under the guidance of a Chartered Professional Engineer, this includes the use of the Ramset™ Epcon™ C8 Xtrem™ filler in accordance with the ReidBar™ Grout Sleeve System - Installation Guide.

GROUTING REQUIREMENTS

The grouting of the ReidBar™ Grout Sleeves with Ramset™ POZIFLO™ HS must be carried out following the instructions in the Technical Data Sheet and ReidBar™ Grout Sleeve System - Installation Guide.

MAINTENANCE REQUIREMENTS

The ReidBar™ Grout Sleeve System will not normally require maintenance. However, if damage occurs to the cover concrete, such as the cover is reduced, then repairs must be carried out to ensure the integrity of the structure.

BUILDING CODE

B1 STRUCTURE

The ReidBar™ Grout Sleeve System connectors have been tested and assessed against the requirements of NZS 3101 Clause 8.9.1.3 [a]. They have not been assessed against NZS 3101 Clause 8.9.1.3 [b], and cannot be used where high cycle fatigue is a design consideration.

9. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations provided as stated in this Product Certificate.

10. BASIS FOR CODEMARK CERTIFICATION

The following evaluations have been carried out on the ReidBar™ Grout Sleeve System to determine compliance with the NZBC:

- BRANZ Expert Judgement [Structural Engineer] confirmation of compliance to the relevant NZBC Clause B1 Structural Performance Requirements.
- BRANZ Expert Judgement [Materials Scientist] confirmation of compliance to the NZBC Clause B2 Durability Performance Requirements.
- The practicability of installation of ReidBar™ Grout Sleeve System has been assessed and found to be satisfactory.
- The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.
- The Product Quality Plan has been reviewed by BRANZ and found to be satisfactory. The quality of supply to the market is the responsibility of RamsetReid.
- Chartered Professional Engineers specialising in structural design are responsible for incorporating the ReidBar™ Grout Sleeve System within the design of the structure.
- Building contractors are responsible for the quality of the installation of the ReidBar™ Grout Sleeve System in accordance with the instructions of RamsetReid.
- Building owners are responsible for the maintenance of the structure such that suitable concrete cover to the ReidBar™ Grout Sleeve System is maintained.

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Chief Executive Officer
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11. DOCUMENTATION SUPPORTING CERTIFICATION

- AS/NZS 4671: 2019 Steel reinforcing materials.
- BRANZ Durability Opinion TP11032-001, issue date 31 October 2019. The ReidBar™ Grout Sleeve System was assessed to meet the relevant NZBC durability requirement.
- BRANZ Technical Opinion TP11032-T0[2020], issue date 25 June 2020. The full range of the ReidBar™ Grout Sleeve System was assessed to meet the relevant NZBC structural requirements.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- NZS 3101.1: 2006 Amendment 3 Concrete structures standard part 1 - The design of concrete structures.
- The Building Regulations 1992.
- WSP test report: RamsetReid Phase A1: Cast iron grout sleeve testing, issue 1, dated 20 March 2020, testing of the 12 mm, 20 mm and 32 mm grout sleeves against NZS 3101.1 Clause 8.7.5.2 (b) for mechanical connectors, ISO 15835-2 Clause 5.6 low cycle loading for category S2 (violent earthquake). The samples met these requirements.

12. CONDITIONS RELATING TO NOTIFICATION

The certificate holder [RamsetReid] must notify the product certification body [BRANZ] in writing, of any intended change to any of the following particulars:

- The name, address, or contact details of the certificate holder
- Any address of a location where a certified product is produced or manufactured.

The certificate holder shall notify the product certification body in writing of any intended change, modification, or alteration to any of the following:

- The certified building method or product
- The method of its production or manufacture
- The Product Quality Plan prepared in respect of the certified building method or product
- The application or installation instructions for the certified building method or product
- Any documentation relating to the use and maintenance of the certified building method or product.

If the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder shall notify the product certification body in writing of the reason for that suspicion.

If the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder shall disclose that fact in a published disclosure statement in a form that is acceptable to the product certification body and to MBIE.

If the certificate is suspended or revoked, the certificate holder:

- Shall notify all customers to whom the building method or product is regularly supplied; and
- Immediately cease using the certificate, the mark of conformity, and any reference to the number of this certificate.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.

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