



BRANZ Appraised
Appraisal No. 978 [2017]

**STAERK – STRONG AS
NAILS FAST GRIP**



Appraisal No. 978 (2017)

BRANZ Appraisals

Technical Assessments of products for building and construction.



Moggens NZ Ltd

31 Agapanthus Place
Flat Bush
Auckland

Ph: 027 776 5400

Email: info.nz@moggens-international.com

Web: www.moggens-international.com



BRANZ

1222 Moonshine Rd,
RD1, Porirua 5381
Private Bag 50 908
Porirua 5240,
New Zealand
Tel: 04 237 1170
branz.co.nz



Product

1.1 Staerk - Strong As Nails Fast Grip is a one component, acrylic based construction adhesive for adhering plasterboard to framing.

Scope

2.1 Staerk - Strong As Nails Fast Grip has been appraised for use as a construction adhesive in dry, internal applications when bonding the following materials:

Substrate	Plasterboard	Wet Area Plasterboard
Dry Timber	✓	
H3.1 Timber	✓	✓
H1.2 Timber	✓	✓
Galvanised Steel	✓	✓

2.2 Staerk - Strong As Nails Fast Grip has not been appraised as a structural adhesive for structural NZBC applications. Structural connections for carrying and resisting imposed loads, such as wind and earthquake must be designed using mechanical fasteners.

Building Regulations

New Zealand Building Code (NZBC)

3.1 The use of Staerk - Strong As Nails Fast Grip itself is not within the scope of the NZBC, however, the use of building elements or components such as wall or ceiling panels where the adhesive is used is controlled by the NZBC. Therefore, in the opinion of BRANZ, Staerk - Strong As Nails Fast Grip, if used, installed and maintained in accordance with the statements and conditions of this Appraisal, will contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Staerk - Strong As Nails Fast Grip contributes to meeting the requirements for loads arising from self-weight, imposed gravity loads arising from use, impact, and time dependent effects including creep and shrinkage [i.e. B1.3.3 (a), (b), (j) and (q)]. See Paragraph 8.1.

Clause B2 DURABILITY: Performance B2.3.1 (b), 15 years, B2.3.1 (c), 5 years and B2.3.2. Staerk - Strong As Nails Fast Grip meets these requirements. See Paragraphs 9.1 – 9.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Staerk - Strong As Nails Fast Grip meet this requirement and will not present a health hazard to people.



Technical Specification

Staerk - Strong As Nails Fast Grip

- 4.1 Staerk - Strong As Nails Fast Grip is a one component, aqueous, acrylic latex based construction adhesive for plasterboard.
- 4.2 Staerk - Strong As Nails Fast Grip is supplied in 600 ml sausages and is off-white in colour.

Packaging, Handling and Storage

- 5.1 The sausages of Staerk - Strong As Nails Fast Grip should be handled with care to prevent damage during transport, and should be stored in the temperature range of 5°C - 25°C.
- 5.2 The shelf life of Staerk - Strong As Nails Fast Grip is 12 months.

Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ Website for details of the current Technical Literature for Staerk - Strong As Nails Fast Grip. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained within the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

- 7.1 Staerk - Strong As Nails Fast Grip is suitable for use in dry, internal applications.
- 7.2 Staerk - Strong As Nails Fast Grip type products are not referenced in the NZBC, but they can be used to help increase the stiffness and rigidity of systems, help prevent movement and squeaks at sheet edges, and reduce the number of fasteners needed in non-structural situations.
- 7.3 Staerk - Strong As Nails Fast Grip is not recommended for bonding impervious surfaces to each other, i.e. at least one material to be bonded should be porous.
- 7.4 Staerk - Strong As Nails Fast Grip must not be used to replace mechanical fixings where these have been specified by the manufacturer of the material being adhered. Lining materials used in loadbearing, bracing or some other form of specifically designed lining system (e.g. fire resistant or acoustically insulated) must be installed in accordance with the instructions of the respective manufacturer.
- 7.5 Shrinkage of framing or substrate materials, e.g. timber studs, will place stress on the bond line of the glued joint. In order to minimise shrinkage of materials that could possibly cause failure of the glued joint and/or aesthetic damage to lining materials, the moisture content of timber, or other material being bonded, must not exceed the maximum limitations stated by either the manufacturer of that material, or the maximum moisture contents stated in NZBC Acceptable Solution E2/AS1, Paragraph 10.2, whichever is the lesser. Due allowance for shrinkage and/or expansion of lining and substrate materials must be made.
- 7.6 Materials must not be glued over structural control joints in the supporting structure or substrate.
- 7.7 Due to the degree of mechanical fastenings required within the body of the plasterboard, framing alignment is critical.

Structure

General

- 8.1 When Staerk - Strong As Nails Fast Grip is used to adhere building materials as stated in the Appraisal scope [refer to Paragraph 2.1], and when used in accordance with the statements and conditions of this Appraisal, the bond line will have sufficient strength and stability to resist the elemental forces these materials will be subjected to, such as the material self-weight, light impact loads, and typical thermal and structural movement stresses.

Durability

- 9.1 Staerk - Strong As Nails Fast Grip meets code compliance with NZBC Clause B2.3.1 [b] 15 years when used to bond materials in situations that require minimum 15 years durability, e.g. shower linings, and code compliance with B2.3.1 [c] 5 years when used to bond materials in situations that require minimum 5 year durability, e.g. easy to access and replace interior wall linings.

Serviceable Life

- 9.2 Staerk - Strong As Nails Fast Grip is expected to have a serviceable life of at least 15 years.
- 9.3 This Appraisal covers cured Staerk - Strong As Nails Fast Grip only, and not the materials being bonded, which must also meet the relevant requirements of NZBC Clause B2 Durability.

Maintenance

- 10.1 Materials being adhered must be maintained as per the instructions of the respective manufacturer. No maintenance of the adhesive is required.

Prevention of Fire Occurring

- 11.1 Separation or protection must be provided to Staerk - Strong As Nails Fast Grip from heat sources such as fire places, heating appliances, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 - C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

Installation Information

Installation Skill Level Requirement

- 12.1 Staerk - Strong As Nails Fast Grip is for use by general tradespersons and handypersons.

General

- 13.1 Proprietary lining materials based on materials covered by the scope of this Appraisal, i.e. paper faced gypsum plasterboard, must be installed in accordance with the written instructions of the respective manufacturers. [Note that many manufacturers of proprietary materials have specific fixing requirements for their materials, which have been developed after extensive product development, testing and on-going assessment of history of performance.]
- 13.2 All surfaces to be bonded must be free of foreign material that will impair adhesion.
- 13.3 Staerk - Strong As Nails Fast Grip may be applied within the temperature range of 10°C to 40°C. The open time for Staerk - Strong As Nails Fast Grip is 30 minutes, however this will vary with temperature, and will typically be shorter for higher temperatures and longer for lower temperatures.
- 13.4 Apply a continuous bead of Staerk - Strong As Nails Fast Grip or dabs to the surface to be bonded. Where sheets butt on a stud, apply a zigzag bead to ensure the adhesive contacts both sheets. The two materials are then assembled together using sufficient nails, screws, temporary bracing or clamps to achieve contact over the total bond area. Adhesive must not be used under fasteners. The adhesive must be allowed to dry for a minimum of 24 hours before removing any temporary fasteners, supports or clamps. Maximum bond strength will be achieved in approximately 7 days.
- 13.5 Clean tools and remove excess adhesive while uncured with a wet rag. After hardening the excess adhesive can be removed with a spatula or sanded with a fine grade sand paper.

Health and Safety

- 14.1 Staerk - Strong As Nails Fast Grip must be kept away from children. If ingested, medical attention must be sought immediately.
- 14.2 Appropriate precautions must be taken when using Staerk - Strong As Nails Fast Grip to ensure good ventilation, especially in confined spaces.
- 14.3 Always consult the Moggens NZ Limited safety data sheet before use.



Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 15.1 Testing of Staerk - Strong As Nails Fast Grip in accordance with AS 2753-1985 has been carried out to determine amongst other things: shear strength; bond strength; bond maintenance; bridging characteristics; tensile strength and flexibility after heat/humidity aging.
- 15.2 The test methods and results have been reviewed by BRANZ and found to be satisfactory.

Other Investigations

- 16.1 The performance of Staerk - Strong As Nails Fast Grip in Europe since 2011 has been considered.
- 16.2 Assessment has been made of the structural aspects and durability of the system and opinions given by BRANZ technical experts.
- 16.3 The manufacturer's Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 17.1 The manufacture of Staerk - Strong As Nails Fast Grip has not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 17.2 Quality of supply of the product is the responsibility of Moggens NZ Limited.
- 17.3 Quality of installation of the product on site is the responsibility of the installer.

Sources of Information

- AS 2753-1985 Adhesives – Mastic – For bonding gypsum plaster linings to wood and metal framing members.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



BRANZ Appraised
Appraisal No. 978 [2017]

BRANZ Appraisal
Appraisal No. 978 [2017]
14 August 2017

STAERK – STRONG AS NAILS
FAST GRIP



In the opinion of BRANZ, **Staerk – Strong As Nails Fast Grip** is fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Moggens NZ Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Moggens NZ Ltd:**
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and workmanship;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Moggens NZ Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Moggens NZ Ltd** or any third party.

For BRANZ

Chelydra Percy

Chief Executive

Date of Issue:

14 August 2017