BPIR Declaration

Stren-Joists

Version: 1 - 2023

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Declaration

Ray Staiger Limited has provided this declaration to satisfy the provisions of Schedule 1 (d) of the Building Regulations 2022 (Building Product Information Requirements).

Product Information:

Name	Pryda Stren-Joist
Range	From the range of Pryda structural support systems
Code	NPSJ, NPSJD, NPSJ-TEK, NPSJD-TEK

Designated Class:

Class 1

Description:

Pryda Stren-Joists are made from grade G300 Z275 1.6mm galvanized coil. These have been designed by structural engineers in accordance with NZ and Australian building codes and a trusted solution for over a decade.

Stren-Joists have been designed to allow holes to be cut in floor and ceiling joists to enable pipes, wiring or other services to be passed through while re-instating the integrity of the penetration.

Each kit contains: 1 x 'U' channel & 2 x arched plates, 30mm x 3.15mm nails or 12g x 35mm Tek screws in addition to 10 x 8g x 20mm screws.

Benefits: One size fits 140-290mm joists Can be retro-fitted. Can be nailed or screwed (NPSJ-TEK & NPSJD-TEK). Quick and easy to install. All components supplied with kit

Scope of Use:

Installation is self-evident and normal good building practices are assumed during installation. The product is suitable for all joist sizes between 140 x 45mm to 290 x 45mm. Not suitable for 90 x 45mm joist.

Suitable for use in low environmental conditions (indoors only).

Conditions of Use:

Must be installed using good building practice in accordance with the producer statement, New Zealand building code and RSL installation guidelines.

Relevant Building Code Clauses:

B1 Structure — B1.3.1, B1.3.2, B1.3.3 (j), B1.3.4

B2 Durability — B2.3.1 (a)

F2 Hazardous building materials — F2.3.1

Contributions to Compliance:

B1.3.1, B1.3.2, B1.3.3, B1.3.4: The NPSJ range has a producer statement to confirm it complies as an acceptable solution to the NZBC re-instating the structural integrity of the building.

The Pryda Stren-Joist is intended to re-instate the structural integrity of joist that has suffered service holes after erection. The hole can be made in any position along the span of the joist provided that the hole edge is not closer than one joist depth from the end supports of the joist.

B2.3.1 (a): These products have a durability of 50 years provided correct installation and no abnormal environmental conditions.

The durability of the product is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for use in internal “closed spaces”. It is not suitable where this table specifies 304 stainless steel.

F2.3.1: The NPSJ range are safe when handled. There are no additional requirements for these products.

Supporting Documentation:

Supporting documentation can be made available upon request if not already available on www.simplefix.co.nz. This may include installation guides, producer statements, PS1 documentation, load ratings, mill certificates, or any other supporting information.

Company Details:

Manufactured on behalf and to the specification of Ray Staiger Limited in Taiwan.

Contact details:
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NZBN: 9429038913860

Responsibility:

To the best of the company's knowledge all information supplied in this declaration is based upon documentation and information supplied to RSL from genuine sources and is correct.

The Pryda Stren-Joist is not subject to a warning or ban under s26 of the Building Act.

Building Code Performance Clauses:

B1 Structure

B1.3.1

Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.

B1.3.2

Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.

B1.3.3

Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including:

- (f) earthquake
- (h) wind
- (j) impact

B1.3.4

Due allowances shall be made for:

a. the consequences of failure,
b. the intended use of the building,
c. effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur,
d. variation in the properties of materials and the characteristics of the site, and
e. accuracy limitations inherent in the methods used to predict the stability of buildings.

B2 Durability

B2.3.1

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

- (a) the life of the building, being not less than 50 years, if: those building elements (including floors, walls, and fixings) provide structural stability to the building, or those building elements are difficult to access or replace, or failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

F2 Hazardous building materials

F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.