



Product Technical Statement



PTS # 2372

EXPIRY DATE: 31 Oct 2024

The NZ Core Stone Polymer Composite (SPC) Range of Flooring from FloorCo



Product

1.1 The NZ Core SPC (Stone Plastic Composite) range of flooring is a novel kind of eco-friendly flooring, noted for its absence of formaldehyde which renders it mildew-resistant and moisture-proof. It possesses advanced fire resistance, is resistant to stains, is anti-slip, and is 100% waterproof due to its stone base. NZCORE SPC flooring is aimed to cater to the demand for larger panels in the New Zealand market. NZCORE SPC flooring employs the latest upgraded technology in SPC, rendering the surface texture of the product closer to that of real materials. Additionally, it has increased the thickness of the UV layer, enhancing its resistance to ultraviolet rays. Compared to ATWOOD FLOORS and WaterPRO, NZCORE's products are thicker, wider, and longer.

1.2 The shield and core of the SPC Flooring are extruded together simultaneously under extremely high temperatures, ensuring there are no adhesives or environmentally harmful chemicals involved. The co-extrusion process results in a natural wood finish available in various colors and embossing, enhancing its durability, stain resistance, and reliability.

1.3 The product is supplied in 5.7mm & 6.5mm thickness. with either a 0.3mm wear layer or 0.5 wear layer.

1.4 The WaterPro SPC range of flooring is what is known as a floating floor system. Floating floors aren't directly adhered to the subfloor; instead, they are laid over an underlay without the use of any adhesive. This method is suitable for every type of floor except for solid wood. The installation cost of floating flooring is less than that of glue-down methods and it is easy to maintain and replace.

1.5 The WaterPro SPC range of flooring is "clicked or locked" together, eliminating the need for staples and glue. Click-lock flooring is among the simplest and most uncomplicated methods to install, especially suited for quick DIY projects.

NZ Building Regulations

2.1 In the opinion of BEAL, the NZ Core SPC Range of Flooring when designed, installed and maintained in accordance with the statements and conditions of this Product Technical Statement, will meet the following provisions of the New Zealand Building Code (NZBC):

Performance Clause B2 Durability; B2.3.1(c) - 5 years

Performance Clause C3.4(b) Fire affecting areas beyond the fire source - Depending on use

Performance Clause D1 Access Routes - where applicable **D1.3.3 (d), and (f) & (g)** - Where applicable

Performance Clause E3 Internal Moisture; E3.3.3 and E3.3.5 - covering use in wet areas

Performance Clause F2 Hazardous Building Materials; F2.3.1 - ensuring use of a non-hazardous material

Performance Clause G6 Airborne and impact sound G6.3.1 and G6.3.2 - contributes to meeting these requirements.

2.2 The NZ Core SPC Range of Flooring has been assessed as 'an alternative solution' in terms of compliance with the New Zealand Building Code (NZBC).

Applicant:



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Scope and Limitations

3.1 The NZ Core SPC Range of Flooring is designed for interior use only; The sub-structure (installation surface) must be compliant with all provisions of the New Zealand building Code (NZBC) for new installations and for reinforced concrete floors have a moisture content of less than 6%. For replacement of existing floors advice must be sought from the manufacturer.

3.2 The NZ Core SPC Range of Flooring must not be installed over carpet or underlay, vinyl flooring, rubber flooring, cork flooring etc; the installation substrate must be equivalent to a new NZBC Compliant reinforced concrete or timber framed floor.

Installation over Concrete

3.3 A new reinforced concrete slab will usually take 90 to 150 days to dry thoroughly, depending on the size of the concrete slab and weather conditions. The substrate should be moisture-tested with a hygrometer. If the hygrometer reading is above 70% RH (Relative Humidity), then a coat of the recommended moisture barrier should be applied to the concrete slab before laying. The RH reading of the substrate should be re-checked once it is dry. If the hygrometer reading is still too high, another coat of the moisture barrier should be applied to the concrete substrate. Continue this process or wait until the hygrometer reading is below 70% RH. The sub-floor must also be level before installation, not exceeding 3mm of variation in height for every 3m of floor area.

Installation over Timber

3.4 A timber substrate should be machine sanded in conjunction with the levelling recommendation, not exceeding 3mm of variation in height for every 3m of floor area. If the substrate is not within our recommendation, a levelling compound can be applied to the substrate. The moisture content difference should be no more than 4% between the Livingwood Engineered Timber flooring and timber substrate.

3.5 If designed, installed and maintained in accordance with all requirements, the NZ Core SPC Range of Flooring will comply with the E3 Clause of the NZBC. SPC floors are 100% waterproof vinyl planks, making them suitable for bathrooms, kitchens and other wet areas.

3.6 Installation of the NZ Core SPC Range of Flooring should be limited to interior areas with low UV exposure; a problem that can be solved by using low E (low emissivity) Glass.

3.7 The owner of the building is responsible for the proper maintenance of the installed NZ Core SPC Range of Flooring as set out in the technical literature provided by FloorCo Trading.

Technical Literature

Technical Literature Supplied

4.1 The SPC Flooring instruction available from the manufacturer's website at <https://floorco.co.nz/spc-install-instructions/> must be read in conjunction with this Product Technical Statement. All aspects of design, use, installation and maintenance contained within the technical literature and scope of this PTS must be followed.

Result of the Assessment

Assessments

5.1 In the opinion of BEAL, compliance with the relevant performance clauses of the New Zealand Building Code (NZBC) has been established based on an internal review of the documentation.

In-service History

5.2 FloorCo Trading has provided a statement of in-service history demonstrating compliance over time in many projects. All of the data provided to the reviewer has been assessed for suitability.

Ease of Repair or Maintenance

5.3 The Technical Literature has been examined by BEAL and found to be satisfactory.

5.4 Building owners are responsible for the maintenance of the NZ Core SPC Range of Flooring. Continuous compliance is reliant on the building owner maintaining the product in accordance with the manufacturer's maintenance instructions.

Authorised Signatory,



C R Prouse - Director

Building Element Assessment Laboratory Limited