

BIFORM SPC RIGID FLOORING

PURPOSE

BiForm SPC Rigid Flooring is a non-structural tongue and groove laminate flooring system for use internally over concrete and subfloors with timber, plywood, particleboard or compressed fibre cement. It is suitable for use in wet areas.

EXPLANATION

SPC (solid polymer core) Rigid Flooring is a PVC multi-layered laminate flooring plank consisting of a polymer-layered core with protective coating and a force-absorbing IXPE underlay layer.

It is manufactured in accordance with ISO and European Standards for dimensional accuracy, fire resistance, sound absorption, slip resistance and has been chemically analysed to ensure safe use.

SPC Rigid Flooring is 6 mm thick and available in 12 colours and wood grains. Each plank measures 180 mm x 1220 mm.



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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Building</p> <p>In all buildings where the relevant part of the building complies with the NZ Building Code (NZBC) or in existing buildings where the designer/engineer is satisfied that the existing building is suitable for the intended building work.</p> <p>Over concrete and subfloors with timber, plywood, particleboard or compressed fibre cement, or over an existing floor covering (e.g., ceramic tiles, linoleum, PVC).</p> <p>In wet areas.</p>	<ul style="list-style-type: none"> ➤ Concrete subfloors must be cured for 60 days prior to installation. The surface level variation must be no greater than 2 mm or over 2 m length. ➤ SPC Rigid Flooring must not be installed over an electrical radiant heating system. ➤ Where hydronic underfloor heating is used, the subfloor surface temperature must not exceed 27 °C. ➤ The perimeter of the floor must be sealed with wet area grade silicone.



USEFUL INFORMATION

For design, installation, maintenance and warranty information for SPC Rigid Flooring, and for supply and manufacturing information, and the statement made about s26 of the Building Act 2004, refer to www.biform.co.nz.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all BiForm requirements, SPC Rigid Flooring will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (b, c, j)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Castor chair test to EN 425:2002 [Intertek, 09/01/2019]. ➤ Dimensional stability tested in accordance with EN 434:1994 [Intertek, 09/01/2019].
B2 Durability B2.3.1 (b)	VERIFICATION METHOD B2/VM1	<ul style="list-style-type: none"> ➤ Castor chair test to EN 425:2002 [Intertek, 09/01/2019]. ➤ Dimensional stability tested in accordance with EN 434:1994 [Intertek, 09/01/2019]. ➤ Peel resistance to EN 431:1994 [Intertek, 09/01/2019]. ➤ Scratch resistance to EN 16094:2012, Procedure A & B [Intertek, 09/01/2019]. ➤ Resistance to chemicals EN 423:2001 [Intertek, 09/01/2019]. ➤ Colour fastness to ISO 105-B02:2014 [Intertek, 09/01/2019].
C3.4 Fire affecting areas beyond the fire source C3.4 (b)	ACCEPTABLE SOLUTION C/AS2	<ul style="list-style-type: none"> ➤ Group number 1-S established through testing to EN 13501-1:2007+A1:2009 [Ghent University, 17/04/2018].
D1 Access routes D1.3.3 (d) re slip resistance	ACCEPTABLE SOLUTION D1/AS1	<ul style="list-style-type: none"> ➤ Coefficient of friction of 0.37 to EN 13893:2002 using wet pendulum method equivalent to AS/NZS 4566 and AS/NZS 3661 as cited in D1/AS1 that requires coefficient of friction less than 0.4 [Intertek, 09/01/2019].
E3 Internal Moisture E3.3.3, E3.3.5, E3.3.6	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ PVC is integrally impervious. ➤ Tongue and groove join is impervious to pooling.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ No detection of phthalates to EN 14372:2004 [Intertek, 09/01/2019]. ➤ No detection of substances including lead, mercury, cadmium, chromium, PBBs, PBDEs and phthalates [Intertek, 09/01/2019].
G6 Airborne and Impact Sound	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Contributes to sound insulation when part of an acoustic floor system. Tested for improvement in impact noise to ISO 10140-3:2010/A1:2015, achieves $\Delta L_w = 21$ dB [Intertek, 09/01/2019].

SOURCES OF INFORMATION

- Intertek. [09/01/2019] *Performance Testing SPC Flooring*. Report No. 181219007SHF-001.
- Intertek. [09/01/2019] *Performance Testing SPC Flooring*. Report No. 181219007SHF-002.
- Ghent University. [17/04/2018] *Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009*. Report No. CR 18-0336-01.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.
3. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™.
4. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

BiForm Ltd confirms that if SPC Rigid Flooring is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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www.biform.co.nz/products-services/premium-spc-flooring/



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of BiForm Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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