

## BIFORM SPC RIGID FLOORING

### PURPOSE

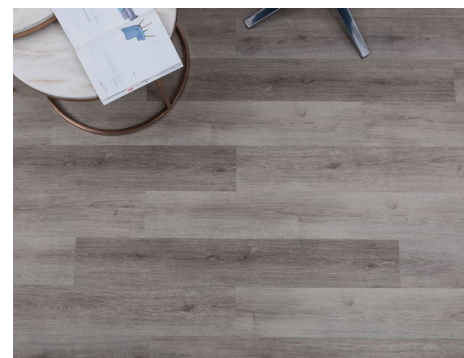
BiForm SPC Rigid Flooring is a non-structural tongue and groove laminate flooring system for use internally over concrete and subfloors with timber, plywood, particleboard or compressed fibre cement. It is suitable for use in wet areas.

### 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.



For further assistance please contact:

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### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Building</b>	
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.	
Over concrete and subfloors with timber, plywood, particleboard or compressed fibre cement, or over an existing floor covering (e.g., ceramic tiles, linoleum, PVC).	<ul style="list-style-type: none"> <li>➤ 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.</li> <li>➤ SPC Rigid Flooring must not be installed over an electrical radiant heating system.</li> <li>➤ Where hydronic underfloor heating is used, the subfloor surface temperature must not exceed 27 °C.</li> </ul>
In wet areas.	<ul style="list-style-type: none"> <li>➤ The perimeter of the floor must be sealed with wet area grade silicone.</li> </ul>



### USEFUL INFORMATION

For design, installation and maintenance information, refer to [biform.co.nz](https://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	Compliance statement	BASIS OF COMPLIANCE	
		Demonstrated by	
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (b, c, j)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Castor chair test to EN 425:2002 [Intertek, 09/01/2019].</li> <li>➤ Dimensional stability tested in accordance with EN 434:1994 [Intertek, 09/01/2019].</li> </ul>	
<b>B2 Durability</b> B2.3.1 (b)	VERIFICATION METHOD B2/VM1	<ul style="list-style-type: none"> <li>➤ Castor chair test to EN 425:2002 [Intertek, 09/01/2019].</li> <li>➤ Dimensional stability tested in accordance with EN 434:1994 [Intertek, 09/01/2019].</li> <li>➤ Peel resistance to EN 431:1994 [Intertek, 09/01/2019].</li> <li>➤ Scratch resistance to EN 16094:2012, Procedure A &amp; B [Intertek, 09/01/2019].</li> <li>➤ Resistance to chemicals EN 423:2001 [Intertek, 09/01/2019].</li> <li>➤ Colour fastness to ISO 105-B02:2014 [Intertek, 09/01/2019].</li> </ul>	
<b>C3.4 Fire affecting areas beyond the fire source</b> C3.4 (b)	ACCEPTABLE SOLUTION C/AS2	<ul style="list-style-type: none"> <li>➤ Group number 1-S established through testing to EN 13501-1:2007+A1:2009 [Ghent University, 17/04/2018].</li> </ul>	
<b>D1 Access routes</b> D1.3.3 (d) re slip resistance	ACCEPTABLE SOLUTION D1/AS1	<ul style="list-style-type: none"> <li>➤ 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].</li> </ul>	
<b>E3 Internal Moisture</b> E3.3.3, E3.3.5, E3.3.6	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ PVC is integrally impervious.</li> <li>➤ Tongue and groove join is impervious to pooling.</li> <li>➤ Moisture resistance tested in accordance with ISO 4760: 2020 [NZWTA, 26/02/2024].</li> </ul>	
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ No detection of phthalates to EN 14372:2004 [Intertek, 09/01/2019].</li> <li>➤ No detection of substances including lead, mercury, cadmium, chromium, PBBs, PBDEs and phthalates [Intertek, 09/01/2019].</li> </ul>	
<b>G6 Airborne and Impact Sound</b>	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ 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 <math>\Delta L_w = 21</math> dB [Intertek, 09/01/2019].</li> </ul>	

## 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.
- NZWTA. [26/02/2024] *Resilient floor coverings (based on ISO 4760:2022(E) - Laminate flooring - Topical moisture resistance - assembled joint (modified))*. Report No. 1501579.8.

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.

**Date of first issue:** 22/06/2022

**Date of current issue:** 27/02/2024

**NZBN:** 9429046383198

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

[biform.co.nz/products-services/premium-spc-flooring/](https://biform.co.nz/products-services/premium-spc-flooring/)



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 product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. 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™. 6. 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™.

*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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