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**Agrément Certificate**

**02/3934**

Product Sheet 1 Issue 6

## WEST FRASER FLOORING BOARDS

### CABERDEK TAPELESS SYSTEM

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Caberdek, a P5 flooring grade chipboard, faced on one side with a cross-orientated, laminated polyethylene peel-off film, for use in joisted floor construction. The film, together with glued and taped joints, provides temporary weather protection to the boards prior to completion of the building envelope.

(1) Hereinafter referred to as 'Certificate'.

#### The assessment includes

##### Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

##### Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

##### Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



#### KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Sixth issue: 28 February 2025

Originally certified on 17 June 2002

Hardy Giesler  
Chief Executive Officer

*This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.*

*The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).*

*Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.*

*The Certificate should be read in full as it may be misleading to read clauses in isolation.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

### Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Caberdek, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



#### The Building Regulations 2010 (England and Wales) (as amended)

<b>Requirement:</b> A1	<b>Loading</b>
Comment:	The product can contribute to satisfying this Requirement. See section 1 of this Certificate.
<b>Requirement:</b> B3(1)(3)	<b>Internal fire spread (structure)</b>
Comment:	The product can contribute to satisfying this Requirement. See section 2 of this Certificate.
<b>Regulation:</b> 7(1)	<b>Materials and workmanship</b>
Comment:	The product is acceptable. See sections 8 and 9 of this Certificate.



#### The Building (Scotland) Regulations 2004 (as amended)

<b>Regulation:</b> 8(1)	<b>Fitness and durability of materials and workmanship</b>
Comment:	The product can contribute to a construction satisfying this Regulation. See sections 8 and 9 of this Certificate.
<b>Regulation:</b> 9	<b>Building standards - construction</b>
Standard: 1.1(a)	Structure
Comment:	The product can contribute to satisfying this Standard, with reference to clause 1.1.3 <sup>(1)(2)</sup> . See section 1 of this Certificate.
Standard: 2.3	Structural protection
Comment:	The product can contribute to satisfying this Standard, with reference to clauses 2.3.0 <sup>(1)(2)</sup> , 2.3.1 <sup>(1)(2)</sup> , 2.3.2 <sup>(1)(2)</sup> and 2.3.3 <sup>(1)(2)</sup> . See section 2 of this Certificate.
Standard: 7.1(a)	Statement of sustainability
Comment:	The product can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting the bronze level of sustainability as defined in this Standard.
<b>Regulation:</b> 12	<b>Building standards - conversion</b>
Comment:	All comments given for the product under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1 <sup>(1)(2)</sup> and Schedule 6 <sup>(1)(2)</sup> .

(1) Technical Handbook (Domestic).

(2) Technical Handbook (Non-Domestic).



#### The Building Regulations (Northern Ireland) 2012 (as amended)

<b>Regulation:</b> 23(1)(a)(i)	<b>Fitness of materials and workmanship</b>
Comment:	The product is acceptable. See sections 8 and 9 of this Certificate.

<b>Regulation:</b>	<b>30</b>	<b>Stability</b>
Comment:		The product can contribute to satisfying this Regulation. See section 1 of this Certificate.
<b>Regulation:</b>	<b>35(1)(3)</b>	<b>Internal fire spread (structure)</b>
Comment:		The product can contribute to satisfying this Regulation. See section 2 of this Certificate.

## Additional Information

### NHBC Standards 2025

In the opinion of the BBA, Caberdek, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 6.4 *Timber and concrete upper floors*, 6.10 *Light steel framed walls and floors* and 9.3 *Floor finishes*.

## Fulfilment of Requirements

The BBA has judged Caberdek to be satisfactory for use as described in this Certificate. The product has been assessed as in joisted floor construction.

## ASSESSMENT

### Product description and intended use

The Certificate holder provided the following description for the product under assessment. Caberdek is a P5 flooring grade chipboard faced on one side with a cross-orientated, laminated peel-off film. The film, together with glued and taped joints, provides temporary weather protection to the product prior to completion of the building envelope. The product has the nominal characteristics given in Table 1.

*Table 1 Nominal characteristics*

Characteristic (unit)	Value
Thickness (mm)	18, 22
Length (mm)	2400
Width (mm)	600
Density (kg·m <sup>-3</sup> )	600 to 690
Edge profile	Tongue and groove <sup>(1)</sup>

(1) TG2 panels, which are available as 2400 by 1200 mm products with the tongue and groove down the longer edges only, may be used but the butt joints must be bonded using a D4 type adhesive.

### Ancillary Items

The following ancillary items are essential to use with the product and have been assessed with the product:

- CaberFix D4 Adhesive — a one-part PU bonding adhesive to BS EN 204 : 2016, Class D4, for use in bonding board joints and also boards to joists
- CaberFix Joint & Joist Adhesive — a one-part polymeric gun-applied adhesive for bonding the boards to joists

The Certificate holder recommends the following ancillary items for use with the product, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- annular ring-shank nails — length 2.5 times the thickness of the product, for fixing the product to the joists
- Pozidrive No 8 Screws — particle screws of length 50 mm.

## Applications

The product is intended for use as a flooring product in joisted constructions with sealed joints. The product can be left exposed to the weather for a period of up to 60 days during the building process.

## **Product assessment – key factors**

The product was assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

### **1 Mechanical resistance and stability**

Data were assessed for the following characteristics.

#### 1.1 Strength and Stability

1.1.1 An assessment was made of the structural adequacy of the product under the loads that it is expected to resist.

1.1.2 The product conforms to the requirements of BS EN 312 : 2010 and can resist the loads associated with its use under normal joisted constructions.

### **2 Safety in case of fire**

Data were assessed for the following characteristics.

#### 2.1 Reaction to fire

The product has a classification of Dfl-s1 in accordance with harmonised European Standard BS EN 13986 : 2004, Table 8.

#### 2.2 Resistance to fire

The fire resistance of a construction incorporating the product must be calculated with reference to BS EN 1995-1-2 : 2004 and its UK National Annex or by undertaking an appropriate test at a UKAS accredited laboratory.

### **3 Hygiene, health and the environment**

Data were assessed for the following characteristics.

#### 3.1 Properties in relation air

3.1.1 The product achieves a class E1 formaldehyde specification to BS EN 13986 : 2004 and BS EN 312 : 2010.

#### 3.2 Weathertightness

3.2.1 The result of a resistance to standing water test is given in Table 2.

*Table 2 Resistance to standing water*

Product assessed	Assessment method	Requirement	Result
Caberdek with CaberFix Joint & Joist Adhesive and CaberFix D4 Adhesive	BBA internal test method	No water through the joint after 60 days of water ponding	Pass

3.2.2 On the basis of data assessed, the product is able to resist water ponding for 60 days.

3.2.3 In persistently wet conditions, some water penetration may be expected. This could result in some swelling around joints and fixings.

## 4 Safety and accessibility in use

Data were assessed for the following characteristics.

### 4.1 Slip resistance

4.1.1 Results of slip resistance tests are given in Table 3.

*Table 3 Results of slip resistance tests*

Product assessed	Assessment method	Requirement	Result
Caberdek	TRL Pendulum test (wet) using 4S/standard pedestrian hard rubber	Value achieved	25
	TRL Pendulum test (dry) using 4S/standard pedestrian hard rubber	Value achieved	38

4.1.2 On the basis of data assessed, the product has a moderate potential for slip in wet conditions and a low potential for slip in dry conditions according to *The Assessment of Floor Slip Resistance : The UK Slip Resistance Group Guidelines, Issue 4 : 2011*.

## 5 Protection against noise

Not applicable.

## 6 Energy economy and heat retention

Not applicable.

## 7 Sustainable use of natural resources

Not applicable.

## 8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the product were assessed.

### 8.2 Service life

Under normal service conditions, the product will have a life equivalent to the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

## PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

## 9 Design, installation, workmanship and maintenance

### 9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply in order to satisfy the performance assessed in this Certificate.

9.1.2 On joists up to 400 mm centres, 18 mm thick product may be used. On joists of wider spacing, up to 600 mm centres, 22 mm thick boards must be used.

## 9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions. A summary of instructions and guidance is provided in Annex A of this Certificate.

9.2.3 Installation of the product must be carried out in dry conditions. Floor joists and beams must be secured and braced before starting to lay the products. Prior to fixing, any standing water or moisture on surface flanges must be wiped down.

9.2.4 Provision must be made for future access to any pipes and services running between joists. Traps for this purpose must be supported on all sides. If access traps are cut and edges supported, the cut edges must be protected from water by application of CaberFix D4 Adhesive and CaberFix Joint & Joist Adhesive.

## 9.3 Workmanship

Practicability of installation was assessed by the BBA, on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by a competent general builder, or a contractor, experienced with this type of product.

## 9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the product in use requires that it is suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate. The following requirements apply in order to satisfy the performance assessed in this Certificate:

9.4.2 As the product is normally covered with a floor finish, maintenance is not required. However, where damage has occurred, it must be repaired promptly in accordance with the Certificate holder's instructions.

## **10 Manufacture**

10.1 The production processes for the product have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

## **11 Delivery and site handling**

11.1 The Certificate holder stated that the product is delivered to site in banded packs wrapped in polythene bearing the product name, the Certificate holder's name, batch number, health and safety information and weight of contents in kilograms.

11.2 The product is supplied in the pack sizes given in Table 4.

Thickness (mm)	No of products per pack	Approx weight (tonne)
18	100	1.8
22	82	1.8

11.3 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.3.1 The product must be stored off the ground, preferably on bearers, to allow air to circulate. If stored outside, they must be protected with a weatherproof sheeting.

11.3.2 CaberFix D4 Adhesive and CaberFix Joint & Joist Adhesive must be stored under cover, in the original packaging, between temperatures of 5 and 25°C.

Supporting information in this Annex is relevant to the product but has not formed part of the material assessed for the Certificate.

### Construction (Design and Management) Regulations 2015

### Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

### CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the product under the *GB CLP Regulation* and *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

### CE marking

The Certificate holder has taken the responsibility of CE marking the product in accordance with harmonised European Standard EN 13986 : 2004.

### Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by Centre for Assessment (Certificate 11/2122).

### Additional information on installation

#### **Fixing to I-joists**

A.1 Timber based I-joists are proprietary products which have specific installation requirements, for example relating to lateral restraint. The number of fixings required will vary depending on factors such as the geometry of the particular installation, the dimensions of the I-joist and whether the deck is required to act as a diaphragm. When installing the product on I-joists, the recommendations of the joist manufacturer should be followed.

A.2 The methods set out in sections A.7 to A.16 use a fixing at every joist for each product (equivalent to a fixing every 600 mm along each joist). However, for each installation, guidance from the I-joist manufacturer, or other suitably qualified persons, should be obtained and followed, including increasing the number of fixings where appropriate.

#### **Laying**

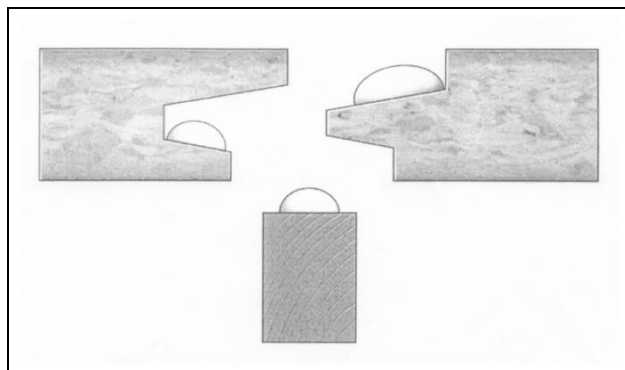
A.3 The product is laid on top of the joists, with the longest edges at right angles to the joists. Short end joints should be staggered by approximately half a product in a brick bond pattern with these ends falling on the centre line of the joist. If they overhang, additional timber supports or noggings must be provided. Although long edges do not need intermediate support between joists, support noggings should be fixed at floor perimeters where unsupported edges abut a wall.

A.4 Laying starts with a single row of products parallel to the longest wall, allowing for a suitably sized expansion gap. A minimum gap of 10 mm, or 2 mm per metre run of floor, whichever is greater, should be left against all walls and abutments. Particular attention must be paid to maintaining expansion gaps at all times during construction. When large single-run floors are being laid, it is necessary to incorporate intermediate expansion gaps to allow for possible movement.

A.5 All tongue-and-groove edges must be glued with an ample bead of adhesive applied to the grooved edge and a smaller bead applied to the top edge of the tongue (see Figure 1). When the products are butted tightly, the glue should reach the top of the joint.



Figure 1 Glueing



A.6 Heads of nails or screws driven through the top surface of the product must be protected by application of a covering layer of CaberFix D4 Adhesive.

**Mechanical fixing with adhesives at joints and perimeter**

A.7 The product is fixed to the joists using 10 gauge annular ring-shank nails of length 2.5 times the thickness of the product, at a rate of four nails at each end and three at intermediate joists (total 17 per product) and hammered flush with the surface of the product. The product should be fixed along the perimeter at 200 to 300 mm centres, approximately 25 mm from the edge of the product.

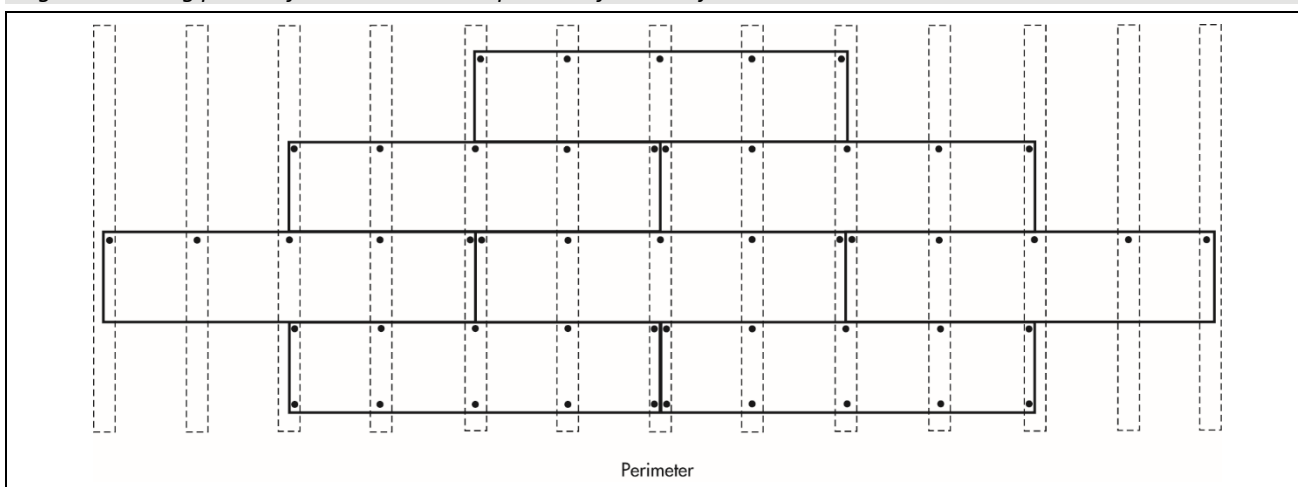
A.8 The tongue-and-groove joint is sealed with CaberFix D4 Adhesive.

A.9 Two continuous beads of CaberFix Joint & Joist Adhesive are applied to the top of the I-joists in 600 mm lengths, for the first run of product.

A.10 The product must be fixed within 15 minutes, the first run being placed into position squarely, avoiding any unnecessary dragging which will disturb the adhesive. The first run is fixed to each joist along the perimeter 50 mm from the product edge using annular ring-shank nails with a length 2.5 times the thickness of the product, or screws. The products are also fixed by secret nailing through the tongue of the long edge at 20° to the vertical, one annular ring-shank nail (or screw) being fixed to every I-joist.

A.11 CaberFix Joint & Joist Adhesive is applied along the next 600 mm run of joists, and the next row of products is staggered to form a brick bond pattern. The product is then fixed by either screwing through the face or secret fixing through the tongue at each joist. (see Figure 2).

Figure 2 Nailing pattern for 2400 x 600 mm products fixed to I-joists at 600 mm centres



A.12 Any film that has peeled back from the edges of the tongue-and-groove joint should be stuck back down with CaberFix D4 Adhesive.

A.13 After a run of products is fixed, all cut product edges and exposed edges around the perimeter are immediately sealed with CaberFix D4 Adhesive. This operation must be carried out in dry conditions.

A.14 Subsequent rows are fixed as described in sections A1 to A.6. The last row of products is fixed to each joist along the perimeter, 50 mm from the product edge.

A.15 Where nailing could damage ceilings or joists, products should be fixed using countersunk Pozidrive No 8 Screws in pre-drilled holes.

A.16 The floor deck can be walked on immediately after fixing, but further heavy construction work should be avoided for 24 hours.

#### **Fixing to solid timber joists**

A.17 The method described in sections A.7 to A.16 can also be used when fixing the product to solid timber joists.

#### **Finishing**

A.18 If the product surface is damaged during the construction period it must be repaired immediately.

A.19 The product tolerates wet conditions, but this may have an adverse effect on site safety.

A.20 When all construction and decoration work is complete and the building is weathertight, the deck should be swept down and the peel-off covering removed by pulling firmly but slowly from the short end. A sharp knife should be used around the perimeter to free any of the covering which may have become snagged.

## Bibliography

BS EN 204 : 2016 *Classification of thermoplastic wood adhesives for non-structural applications*

BS EN 312 : 2010 *Particleboards — Specifications*

BS EN 1995-1-2 : 2004 *Design of timber structures – General – Structural fire design*

BS EN 13986 : 2004 + A1 : 2015 *Wood-based panels for use in construction — Characteristics, evaluation of conformity and marking*

BS EN ISO 9001 : 2015 *Quality management systems — Requirements*

EN 13986 : 2004 + A1 : 2015 *Wood-based panels for use in construction — Characteristics, evaluation of conformity and marking*

*The Assessment of Floor Slip Resistance : The UK Slip Resistance Group Guidelines, Issue 4 : 2011.*

## Conditions of Certificate

### Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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