Cromar Building Products Ltd

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10/4748

Product Sheet 3

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CROMAR ROOF TILE UNDERLAYS

CROMAR BREATHABLE MEMBRANES FOR USE IN WARM NON-VENTILATED AND COLD VENTILATED ROOFS

This Agrément Certificate Product Sheet⁽¹⁾ relates to Cromar Breathable Membranes, flexible three-layer polypropylene sheet materials for use as roof tile underlays in warm non-ventilated and cold ventilated pitched roof systems.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Weathertightness — as part of a complete roof, the products will resist the passage of water and wind-driven snow and dust into the interior of the building (see section 6).

Condensation — the products are low water vapour resistance (Type LR) underlays and can be used as part of warm non-ventilated and cold ventilated roof systems (see section 7).

Wind loading — when installed on appropriately spaced battens and/or rafters, the products' physical properties are adequate to resist the wind loads imposed on the underlay. The products will reduce the wind uplift forces acting on the roof covering (see section 8).

Strength — the products have adequate strength to resist the loads associated with the installation of the roof (see section 9).

Properties in relation to fire — the products are classified as Class F in accordance with EN 13501-1 : 2007 and their use is restricted in some cases by the national Building Regulations (see section 10).

Durability — under the normal conditions found in a roof space, the products will have a service life comparable to traditional roof tile underlays (see section 12).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 21 October 2022



Hardy Giesler Chief Executive Officer

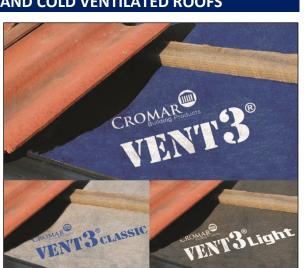
The BBA is a UKAS accredited certification body – Number 113.

The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk **Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.** Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

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Regulations

In the opinion of the BBA, Cromar Breathable Membranes for use in warm non-ventilated and cold ventilated roofs, 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 presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

	The Building Regulations 2010 (England and Wales) (as amended)				
Requirement: Comment:	B3(4)	Internal fire spread The products are restricted by this Requirement. See section 10.1 of this Certificate.			
Requirement: Comment:	B4(1)	External fire spread The products are restricted by this Requirement, in some circumstances. See sections 10.1 and 10.2 of this Certificate.			
Requirement: Comment:	C2(b)	Resistance to moisture The products will contribute to a roof satisfying this Requirement. See section 6.1 of this Certificate.			
Requirement: Comment:	C2(c)	Resistance to moisture The products will contribute to a roof satisfying this Requirement. See section 7.1 of this Certificate.			
Regulation: Comment:	7(1)	Materials and workmanship The products are acceptable. See section 12 and the <i>Installation</i> part of this Certificate.			
E C	The Bui	Iding (Scotland) Regulations 2004 (as amended)			
Regulation:	8(1)	Fitness and durability of materials and workmanship			
Comment:		The products can contribute to a roof satisfying this Regulation. See sections 12 and the <i>Installation</i> part of this Certificate.			
Regulation:	9	Building standards applicable to construction			
Standard: Comment:	2.4	Cavities The products can contribute to satisfying this Standard with respect to clause 2.4.2 ⁽¹⁾⁽²⁾ . See section 10.1 of this Certificate.			
Standard: Comment:	2.6	Spread to neighbouring buildings The products are restricted under clauses $2.6.4^{(1)(2)}$, $2.6.5^{(1)}$ and $2.6.6^{(2)}$ of this Standard in some circumstances. See sections 10.1 and 10.3 of this Certificate.			
Standard: Comment:	2.7	Spread on external walls The products are restricted under clause $2.7.1^{(1)(2)}$ of this Standard. See sections 10.1 and 10.3 of this Certificate.			
Standard: Comment:	3.10	Precipitation The products will contribute to roof satisfying clauses $3.10.1^{(1)(2)}$ and $3.10.8^{(1)(2)}$ of this Standard. See section 6.1 of this Certificate.			
Standard: Comment:	3.15	Condensation The products can contribute to limiting the risk of interstitial condensation, with reference to clauses $3.15.1^{(1)(2)}$, $3.15.3^{(1)(2)}$ and $3.15.7^{(1)(2)}$. See section 7.1 of this Certificate.			

Standard: Comment:	7.1(a)	Statement of sustainability The products can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze leve of sustainability as defined in this Standard.			
Regulation: Comment:	12	Building standards applicable to conversions Comments in relation to products under Regulation 9, Standards 1 to 6 also apply to thi Regulation, with reference to clause $0.12.1^{(1)(2)}$ and Schedule $6^{(1)(2)}$.			
		 Technical Handbook (Domestic). Technical Handbook (Non-Domestic). 			
E E	The Bui	ilding Regulations (Northern Ireland) 2012 (as amended)			
Regulation: Comment:	23(a)(i) (iii)(b)(i)	Fitness of materials and workmanship The products are acceptable. See section 12 and the <i>Installation</i> part of this Certificate.			
Regulation: Comment:	28(b)	Resistance to moisture and weather The products will contribute to a roof satisfying this Regulation. See section 6.1 of this Certificate.			
Regulation: Comment:	29	Condensation The products can enable a roof to satisfy this Regulation. See section 7.1 of this Certificate.			
Regulation: Comment:	35(4)	Internal fire spread - structure The products can contribute to satisfying this Regulation. See section 10.1 of this Certificate.			
Regulation: Comment:	36(a)	External fire spread The products are restricted by this Regulation, in some circumstances. See sections 10.1 and 10.2 of this 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.

See sections: 1 Description (1.1) and 10 Properties in relation to fire (10.4) of this Certificate.

Additional Information

NHBC Standards 2022

In the opinion of the BBA, Cromar Breathable Membranes for use in warm non-ventilated and cold ventilated roofs, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapter 7.2 *Pitched roofs*.

CE marking

The Certificate holder has taken the responsibility of CE marking the products in accordance with harmonised European Standard BS EN 13859-1 : 2014.

1 Description

1.1 Cromar Breathable Membranes for use in warm non-ventilated and cold ventilated roofs are three-layer polypropylene composites, available in four types, with the nominal characteristics and available grades given in Table 1. The membranes are available with or without an integral self-adhesive tape to allow sealing of overlaps. Products which have integrated tapes have the suffix 'Xtra' in the product name.

Table 1 Nominal characteristics				
	Cromar Breathable Membranes			
Characteristic (unit)	Vent 3 Light/	Vent 3 Classic/	Vent 3/	Vent 3 Pro/
	Vent 3 Light Xtra	Vent 3 Classic Xtra	Vent 3 Xtra	Vent 3 Pro Xtra
Thickness (mm)	0.40	0.43	0.50	0.65
Mass per unit area (g·m⁻²)	95	115	135	165
Roll length (m)	50, 45, 25, 15	50, 45, 25, 15	50,45,25,15	50, 45, 25, 15
Roll width (m)	1.0, 1.5	1.0, 1.5	1.0, 1.5	1.0, 1.5
Colour				
upper	Dark grey	Light grey	Dark blue	Dark green
lower	White	white	white	white
Tensile strength (N per 50 mm)				
longitudinal	245	240	255	310
transverse	145	170	225	290
Elongation (%)				
longitudinal	60	75	55	66
transverse	96	93	76	66
Tear resistance (N)				
longitudinal	83	130	130	190
transverse	93	140	170	210
Watertightness				
unaged	W1	W1	W1	W1
aged ⁽¹⁾	W1	W1	W1	W1
Equivalent air layer thickness sd (m)	0.03	0.03	0.03	0.03

(1) Aged in accordance with BS EN 13859-1 : 2014, Annex C.

1.2 The Certificate holder recommends a double-sided tape for taping the overlaps for use with the products, but this has not been assessed by the BBA and is outside the scope of this Certificate.

2 Manufacture

2.1 The membranes are manufactured by lamination of a water vapour permeable film between two layers of nonwoven polypropylene spunbond to form a flexible vapour permeable roof tile underlay.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control being operated by the manufacturer are being maintained.

2.3 The management system of Cromar Building Products Ltd has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 by the BBA (Certificate 14/Q035).

3 Delivery and site handling

3.1 Rolls are delivered to site in packages that carry a label bearing the Certificate holder's name, the grade identification and the BBA logo incorporating the number of this Certificate.

3.2 Rolls should be stored flat or on end, on a smooth, clean, dry and level surface and kept under cover and protected by sunlight.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Cromar Breathable Membranes for use in warm non-ventilated and cold ventilated roofs.

Design Considerations

4 Use

Cromar Breathable Membranes are satisfactory for use as fully supported (and secured with counter battens and tiling battens) or unsupported underlays (installed by draping over rafters and securing with tiling battens), in tiled and slated warm non-ventilated and cold ventilated pitched roof systems constructed in accordance with the relevant clauses of BS 5534 : 2014.

5 Practicability of installation

The products are designed to be installed by competent slaters/tilers experienced with these types of products.

6 Weathertightness



6.1 The products are classified as Class W1 in accordance with BS EN 13859-1 : 2014 and will resist the passage of water, wind-blown snow and dust into the interior of a building under all conditions to be found in a roof constructed in accordance with the relevant clauses of BS 5534 : 2014.

6.2 The products resist penetration of liquid water and consequently may be used as temporary waterproofing prior to the installation of slates or tiles. The period of such use should, however, be kept to a minimum. Further information is given in BBA Information *Bulletin 2 Permeable Roof Tile Underlay — Guide to Good Site Practice*.

7 Condensation



7.1 For design purposes, the products' water vapour resistance may be taken as not more than 0.25 $MN \cdot s \cdot g^{-1}$, and for roofs designed in accordance with BS 5534 : 2014 or BS 5250 : 2021, they may be regarded as Type LR membranes.

7.2 In common with all roofs, care must be taken in the overall design and installation to minimise the risk of water vapour coming into contact with cold parts of the construction. Factors to be considered and minimised include moisture diffusion through the ceiling, infiltration through unsealed openings/penetrations in the ceiling, and services evaporating or venting moisture into cold spaces.

7.3 The risk of condensation is highest in new-build construction during the first heating period, where there is high moisture loading owing to wet trades, such as in-situ cast concrete slabs or plaster. The risk of condensation diminishes as the building naturally dries out. See *BBA Information Bulletin No. 1 Roof Tile Underlays in Cold Roofs during the Drying-out Period*.

Horizontal ceiling and insulation (cold roof)

7.4 Roofs designed and constructed in accordance with BS 5250 : 2021 will adequately limit the risk of interstitial condensation.

7.5 Alternatively, ridge or high-level ventilation⁽¹⁾ equivalent to a continuous opening of 5 mm may be used. If this approach is adopted, users should refer to Product Sheet 4 of this Certificate, in particular the additional guidance relating to limiting the risk of interstitial condensation.

(1) The provision of high level ventilation, when using a Type LR underlay in cold pitched roofs, is a requirement under *NHBC Standards* 2022, Chapter 7.2.

Inclined ceiling and insulation (warm roof)

7.6 For roofs with an insulated inclined ceiling, ventilation above or below the underlay will not be required provided that the passage of moisture by diffusion and by convection is controlled, eg by a vapour control layer or a continuous envelope of insulation with a high vapour resistance. Ventilation may be required if specified by the tile manufacturer or where the roof covering is airtight, as described in BS 5250 : 2021.

Partially inclined ceiling and insulation (warm and cold roof)

7.7 Where an insulated ceiling spans only part of the roof line, the resulting cold roof spaces should be installed in accordance with BS 5250 : 2021, Section 12.

8 Wind loading

8.1 Project design wind speeds for the roof in which the products are installed should be determined, and wind uplift forces calculated, by a suitably experienced and competent individual in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex.

Unsupported

8.2 The products are satisfactory for use in unsupported systems in the Geographical Wind Zones given in Table 2, where a well-sealed ceiling, as defined in BS 9250 : 2007, Clause 3.7, is present and the roof has a ridge height up to 15 m, a pitch between 12.5 and 75°, and a site altitude up to 100 m, and where topography is not significant. For all other cases, the required uplift resistance should be determined using BS 5534 : 2014 and the Certificate holder's declared wind uplift resistances in Table 3.

Table 2 Zones of applicability of Cromar underlays according to BS 5534 : 2014, clause A.8, with battened laps,integral and taped laps

Product	≤ 345 mm batten gauge ⁽¹⁾	≤ 250mm batten gauge	≤ 345 mm batten gauge with taped laps	≤ 250 mm batten gauge with taped laps	≤ 345 mm batten gauge with integrated taped laps ('Xtra')
Vent 3 Light	Zone 1	Zones 1 to 5	Zones 1 to 4	Zones 1 to 5	Zones 1 to 4
Vent 3 Classic	Zone 1	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Vent 3	Zone 1	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Vent 3 Pro	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5

(1) Underlays with a wind uplift resistance at a 250 mm batten gauge that satisfy the minimum design wind pressure of 820 Pa for Zone 1 are deemed to satisfy the requirements for use at 100 mm batten gauge in all Wind Zones

Table 3 Declared wind uplift resistance (Pa)					
Product	≤ 345 mm batten gauge ⁽²⁾	≤ 250 mm batten gauge ⁽¹⁾⁽²⁾	≤ 345 mm batten gauge with taped laps	≤ 250 mm batten gauge with taped laps	≤ 345 mm batten gauge with integrated taped laps ('Xtra')
Vent 3 Light	721	1786	<721	< 1786	<721
Vent 3 Classic	892	2264	<892	< 2264	< 892
Vent 3	919	2280	<919	<2280	<919
Vent 3 Pro	1093	2496	<1093	<2496	<1093

(1) Underlays with a wind uplift resistance at a 250 mm batten gauge that satisfy the minimum design wind pressure of 820 Pa for Zone 1 are deemed to satisfy the requirements for use at 100 mm batten gauge in all Wind Zones.

(2) Mean of test results.

Supported

8.3 The products, when fully supported, have adequate resistance to wind uplift forces.

8.4 The products may be used at any batten gauge in all Wind Zones when laid over nominally airtight timber sarking, (Type 3 particleboard, Type 3 OSB or Type 2 plywood) and insulation for warm-roof design. They may also be used in applications where slates are nailed directly onto sarking boards.

8.5 Timber sarking, such as square-edged butt jointed planks, are not considered to be airtight and the underlay is treated as unsupported.

9 Strength

The products will resist the loads associated with installation of the roof.

10 Properties in relation to fire



10.1 The products are classified as Class $F^{(1)}$ in accordance with BS EN 13501-1 : 2007.

(1) Test report reference 10/24412 issued by BTTG. A copy of the report is available from the Certificate holder.



10.2 In England, Wales and Northern Ireland, the products, when used in pitches of greater than 70°, should not be used on buildings that have a storey at least 18 m above ground level and which contain: one or more dwellings, an institution, a room for residential purposes (excluding any room in a hostel, hotel or boarding house), student accommodation, care homes, sheltered housing, hospitals or dormitories in boarding schools, and additionally in Northern Ireland, nursing homes and places of lawful detention.



10.3 In Scotland, the products, when used in pitches greater than 70°, excluding upstands, should not be used on domestic or shared residential buildings that have a storey more than 11 m above ground level or are less than 1 m from a boundary.

10.4 When the products are used unsupported, there is a risk that fire can spread if they are accidentally ignited during maintenance works, eg by a roofer's or plumber's torch. As with all types of underlay, care should be taken during building and maintenance to avoid the material being ignited.

10.5 When the products are used in a fully supported situation, the reaction to fire will primarily be determined by the support.

11 Maintenance

As the products are confined within a roof structure and have suitable durability (see section 12), maintenance is not required. However, any damage occurring before enclosure must be repaired (see section 17).

12 Durability



The products will be virtually unaffected by the normal conditions found in a roof space and will have a life comparable with that of traditional roof tile underlays, provided they are not exposed to sunlight for long periods (see section 14.4). Advice regarding exposure can be obtained from the Certificate holder.

13 Reuse and recyclability

The products contain polypropylene, which can be recycled.

Installation

14 General

14.1 Cromar Breathable Membranes for use in warm non-ventilated and cold ventilated roofs must be installed and fixed in accordance with the Certificate holder's instructions, the provisions of this Certificate and the relevant recommendations of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2013. Installation can be carried out under all conditions normal to roofing work.

14.2 The products are installed with the coloured or printed side uppermost and lapped to shed water out and down the slope.

14.3 Overlaps must be provided with the minimum dimensions given in Table 4. The Certificate holder's advice must be sought when using tapes for sealing overlaps.

Table 4 Minimum over	laps		
Poof pitch (°)	Horizontal	Vortical lanc (mm)	
Roof pitch (°)	Not fully supported	Fully supported	 Vertical laps (mm)
12.5 < 15	225	150	100
≥15	150	100	100

14.4 Where possible, eaves guards should be used to protect the products from sunlight and to direct water into the gutter.

15 Procedure

Unsupported

15.1 The products, when installed as an unsupported system, are fixed in the traditional method for roof tile underlays, ie draped between the rafters.

Fully supported

15.2 The products may be used over suitable timber based sarking (Type 3 particleboards, Type 3 OSB or Type 2 plywood) either with continuous insulation or insulation placed between the rafters (warm roofs).

15.3 The products are secured to the support with counterbattens at least 12 mm thick to create a drainage and vapour dispersal space⁽¹⁾ between the products and the tiles or when using timber sarking, the traditional Scottish practice is employed, with the tiles or slates fixed directly into the boards.

(1) This space must be ventilated in accordance with BS 5250 : 2021 when using tight fitting roof covering.

15.4 Care must be taken to minimise the risk of interstitial condensation as described in section 7.5, particularly for timber sarking which may be below the dew-point for extended periods during winter months.

16 Finishing

16.1 Detailing of abutments, verges and hips must be in accordance with the Certificate holder's instructions.

16.2 Tiling and slating must be carried out in accordance with the relevant clauses of BS 5534 : 2014, BS 8000-0 : 2014, BS 8000-6 : 2013 and the Certificate holder's instructions, especially when using tightly jointed slates or tiles.

17 Repair

Damage to the products can be repaired prior to the installation of slates or tiles by replacing the damaged areas by patching and sealing correctly. Care should be taken to ensure that the watertightness of the roof is maintained.

Technical Investigations

18 Tests

18.1 An assessment was made of data to BS EN 13859-1 : 2014 in relation to:

- dimensions
- mass per unit area
- tensile strength and elongation
- resistance to tear
- dimensional stability
- resistance to water penetration
- resistance to artificial ageing
- water vapour transmission.

18.2 Tests were carried out to determine:

- slip resistance
- resistance to streaming water
- Mullen burst strength
- resistance to wind loads

in order to assess:

- safety during installation
- performance under typical service conditions
- robustness during installation
- properties when installed.

19 Investigations

19.1 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

19.2 The condensation risk in warm roof constructions, and specifically those containing sarking boards, incorporating the products was assessed.

Bibliography

BS 5250 : 2021 Management of moisture in buildings. Code of practice

BS 5534 : 2014 + A2 : 2018 Slating and tiling for pitched roofs and vertical cladding — Code of practice

BS 8000-0 : 2014 Workmanship on construction sites – Introduction and general principles BS 8000-6 : 2013 Workmanship on building sites — Code of practice for slating and tiling of roofs and walls

BS 9250 : 2007 Code of practice for design of the airtightness of ceilings in pitched roofs

BS EN 1991-1-4 : 2005 + A1 : 2010 Eurocode 1 — Actions on structures — General actions — Wind actions NA to BS EN 1991-1-4 : 2005 + A1 : 2010 UK National Annex to Eurocode 1 — Actions on structures — General actions — Wind actions

BS EN 13501-1 : 2007 +A1: 2009 Fire classification of construction products and building elements — Classification using test data from reaction to fire tests

BS EN 13859-1 : 2014 Flexible sheets for waterproofing — Definitions and characteristics of underlays — Underlays for discontinuous roofing

BS EN ISO 9001 : 2015 Quality management systems - Requirements

20 Conditions

20.1 This Certificate:

- relates only to the product/system 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
- is valid only within the UK
- 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
- is subject to English Law.

20.2 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.

20.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.

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

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

20.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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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