#### Juta a.s.

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Agrément Certificate 10/4753

Product Sheet 1

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## **JUTA EASY TRIM AND EASY BREATHER MEMBRANES**

## FOR USE IN WARM NON-VENTILATED AND COLD VENTILATED ROOFS

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to Juta Easy Trim and Easy Breather Membranes for use 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-blown snow and dust into the interior of the building (see section 6).

**Risk of condensation** — the products are low water vapour resistance (Type LR) underlays and can be used as part of a warm non-ventilated and cold ventilated pitched roof system (see section 7).

**Wind loading** — when installed on appropriately-spaced battens, 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 installation of the roof (see section 9).

**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 Agrement

Date of Fourth issue: 19 October 2015

Econo

John Albon – Head of Approvals

Construction Products Chief Executive

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

**British Board of Agrément** Bucknalls Lane

Originally certificated on 12 May 2010

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Can.

Claire Curtis-Thomas

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## Regulations

In the opinion of the BBA, Juta Easy Trim and Easy Breather Membranes, 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: C2(b) Resistance to moisture

Comment: The products will contribute to a roof meeting this Requirement. See section 6.1 of this

Certificate.

Regulation: 7 Materials and workmanship

Comment: The products are acceptable materials. See section 12 and the *Installation* part of this

Certificate.



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

Regulation: 8(1) Durability, workmanship and fitness of materials

Comment: The products can contribute to a construction satisfying this Regulation. See section 12

and the *Installation* part of this Certificate.

Regulation: 9 Building standards applicable to construction

Standard: 3.10 Precipitation

Comment: The products will contribute to a roof satisfying clauses 3.10.1<sup>(1)(2)</sup> and 3.10.8<sup>(1)(2)</sup> of this

Standard. See section 6.1 of this Certificate.

Standard: 7.1(a) Statement of sustainability

Comment: 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 level

of sustainability as defined in this Standard.

Regulation: 12 Building standards applicable to conversions

Comment: Comments in relation to the products under Regulation 9, Standards 1 to 6 also apply to

this Regulation, with reference to clause  $0.12.1^{(1)(2)}$  and Schedule  $6^{(1)(2)}$ .

(1) Technical Handbook (Domestic)

(2) Technical Handbook (Non-Domestic).



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

Regulation: 23(a)(i) Fitness of materials and workmanship

Comment: (iii)(b)(i) The products are acceptable. See section 12 and the Installation part of this Certificate.

Regulation: 28(b) Resistance to moisture and weather

Comment: The products will contribute to a roof satisfying this Regulation. See section 6.1 of this

Certificate.

# Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2007

Information in this Certificate may assist the client, Principal Designer/CDM co-ordinator, designer and contractors to address their obligations under these Regulations.

See sections: 1 Description (1.1) and 14 General (14.2) of this Certificate.

## **Additional Information**

## **NHBC Standards 2014**

NHBC accepts the use of Juta Easy Trim and Easy Breather Membranes provided they are installed, used and maintained in accordance with this Certificate, 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 EN 13859-1: 2014. An asterisk (\*) appearing in this Certificate indicates that data shown are given in the manufacturer's Declaration of Performance.

## **Technical Specification**

## 1 Description

1.1 Juta Easy Trim and Easy Breather Membranes are thermally-bonded film laminate composites made of polyolefins, with the nominal characteristics given in Tables 1 and 2. The products are also available with integrated tapes for sealing overlaps.

Table 1 Nominal characteristics — Juta Easy Trim Breather Membranes

Characteristic (cont.)	Juta Easy Trim Breather Membranes			
Characteristic (unit)	Grafter	Pro	Ultra	Fortis
Thickness (mm)	0.4	0.4	0.52	0.6
Mass per unit area*(g⋅m <sup>-2</sup> )	100	120	142	160
Roll length* (m)	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>
Roll width* (m)	1.5 <sup>(1)</sup>	1.5 <sup>(1)</sup>	1.5 <sup>(1)</sup>	1.5 <sup>(1)</sup>
Colour				
upper	various	various	various	various
lower	various	various	various	various
Tensile strength* (N·50 mm <sup>-1</sup> )				
longitudinal	220	260	305	420
transverse	140	180	210	420
Elongation* (%)				
longitudinal	40	50	45	40
transverse	70	80	70	50
Tear resistance* (N)				
longitudinal	80	120	160	390
transverse	90	140	185	360
Resistance to penetration of air (m³/m²·h <sup>-1</sup> ·50 Pa <sup>-1</sup> )	<0.02	<0.02	<0.005	_
Watertightness*				
unaged	W1	W1	W1	W1
aged <sup>(2)</sup>	W1	W1	W1	W1
Water vapour transmission* $S_d$ )	0.02	0.02	0.02	0.02

<sup>(1)</sup> Other lengths/widths are available.

<sup>(2)</sup> Aged in accordance with BS EN 13859-1: 2014, Annex C.

Table 2 Nominal characteristics — Juta Easy Breather Membranes

Characteristic (unit)	Juta Easy Breather Membranes			
Characteristic (unit)	Master	Maxi	Vista	
Thickness (mm)	0.4	0.5	0.57	
Mass per unit area*(g·m <sup>-2</sup> )	112	132	162	
Roll length* (m)	50 <sup>(1)</sup>	50 <sup>(1)</sup>	50 <sup>(1)</sup>	
Roll width* (m)	1.5 <sup>(1)</sup>	1.5 <sup>(1)</sup>	1.5 <sup>(1)</sup>	
Colour				
upper	various	various	various	
lower	various	various	various	
Tensile strength* (N·50 mm <sup>-1</sup> )				
longitudinal	250	285	325	
transverse	165	200	225	
Elongation* (%)				
longitudinal	50	55	45	
transverse	70	80	70	
Tear resistance* (N)				
longitudinal	115	145	185	
transverse	135	175	195	
Resistance to penetration of air ( $m^3/m^2 \cdot h \cdot^{-1.50} Pa^{-1}$ )	<0.02	<0.02	<0.005	
Watertightness*				
unaged	W1	W1	W1	
aged <sup>(2)</sup>	W1	W1	W1	
Water vapour transmission* S <sub>d</sub> )	0.02	0.02	0.02	

<sup>(1)</sup> Other lengths/widths are available.

1.2 The Certificate holder can provide details of a suitable double-sided tape for taping the overlaps.

#### 2 Manufacture

- 2.1 The membranes are manufactured by a thermal/glue-bonding process in which a polypropylene breathable microporous film is bonded with polypropylene non-woven membranes to form a flexible sheet.
- 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 Juta a.s. has been assessed and registered as meeting the requirements of BS EN ISO 9001: 2008 by Bureau Veritas (Certificate CZ002814-1).
- 2.4 The products are manufactured in the Czech Republic and marketed in the UK by Juta (UK) Ltd, Unit 12B, Metcalf Drive, Altham Business Centre, Altham, Lancashire BB5 5TU, tel: 0845 034 6012, fax: 0845 034 6010, e-mail: info@juta.co.uk and website: www.juta.co.uk

## 3 Delivery and site handling

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

<sup>(2)</sup> Aged in accordance with BS EN 13859-1: 2014, Annex C.

3.2 The rolls should be stored flat on their sides, on a smooth, clean, dry surface, under cover and protected from sunlight.

## **Assessment and Technical Investigations**

The following is a summary of the assessment and technical investigations carried out on Juta Easy Trim and Easy Breather Membranes.

## **Design Considerations**

## 4 Use

Juta Easy Trim and Easy Breather Membranes are satisfactory for use as fully-supported or unsupported underlays in tiled and slated pitched roofs constructed in accordance with the relevant clauses of BS 5534 : 2014 + A1 : 2015.

## 5 Practicability of installation

The products are designed to be installed by competent slaters/tilers experienced with these 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 and 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 + A1: 2015.
- 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. See BBA Information Bulletin No 2 *Permeable Roof Tile Underlay Guide to Good Site Practice*.

## 7 Risk of condensation

- 7.1 For design purposes, the products' water vapour resistance may be taken as not more than 0.25 MN·s·g<sup>-1</sup>, and for roofs designed in accordance with BS 5534 : 2014 + A1 : 2015 or BS 5250 : 2011, Annex H, 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.

## Ceiling and insulation horizontal (cold roof)

- 7.4 Roofs designed and constructed in accordance with BS 5250 : 2011 will adequately limit the risk of interstitial condensation.
- 7.5 Alternatively, ridge or high level ventilation equivalent to a continuous opening of 5 mm may be used. If this approach is adopted, users should refer to Product Sheet 2 of this Certificate, in particular the additional guidance relating to limiting the risk of interstitial condensation.

#### Ceiling and insulation inclined (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.

### Ceiling and insulation partially inclined (warm roof and cold roof)

7.7 Where an insulated ceiling spans only part of the roofline, resulting cold roof spaces should be ventilated in accordance with BS 5250 : 2011, Annex H.

## 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 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 Tables 3 and 4, where a well-sealed ceiling is present and the roof has a ridge height of ≤15 m, a pitch between 12.5° and 75°, and a site altitude ≤100 m, and where topography is not significant. For all other cases, the required uplift resistance should be determined using BS 5534 : 2014 + A1 : 2015 and the Certificate holder's declared wind uplift resistances in Tables 5 and 6

Table 3 Zones of applicability of Juta Easy Trim according to BS 5534: 2014 + A1: 2015, clause A.8 with battened laps and taped laps

Product	≤345 mm batten gauge with battened lap	≤250 mm batten gauge with battened lap	≤345 mm batten gauge with taped laps	≤345 mm batten gauge with integrated taped laps
Grafter	Zone 1	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Pro	Zones 1 to 3	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Ultra	Zone 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Fortis	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5

Table 4 Zones of applicability of Juta Easy according to BS 5534 : 2014 + A1 : 2015, clause A.8 with battened laps and taped laps

Product	≤345 mm batten gauge with battened lap	≤250 mm batten gauge with battened lap	≤345 mm batten gauge with SP 38 taped laps	≤345 mm batten gauge with integrated taped laps
Master	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Maxi	Zones 1 to 3	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5
Vista	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5	Zones 1 to 5

Table 5 Declared wind uplift resistance (Pa) for Juta Easy Trim

Product	≤345 mm batten gauge with battened laps <sup>(2)</sup>	≤250 mm batten gauge with battened laps <sup>(1)(2)</sup>	≤345 mm batten gauge with taped laps <sup>(2)</sup>	≤345 mm batten gauge with integrated taped laps (2)
Grafter	829	1841	1756	1713
Pro	1172	2331	2310	2176
Ultra	1034	2193	2061	≥1600
Fortis	1075	2135	3146	2306

<sup>(1)</sup> Underlays with a wind uplift resistance at a 250 mm batten gauge that meet 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.

<sup>(2)</sup> Mean of test results.

#### Table 6 Declared wind uplift resistance (Pa) for Juta Easy

Product	≤345 mm batten gauge with battened laps <sup>(2)</sup>	≤250 mm batten gauge with battened laps <sup>(1)(2)</sup>	≤345 mm batten gauge with SP 38 taped laps <sup>(2)</sup>	≤345 mm batten gauge with integrated taped laps <sup>(2)</sup>
Master	1036	2071	2146	2156
Maxi	1187	2371	2364	≥1600
Vista	1039	2214	2143	≥1600

<sup>(1)</sup> Underlays with a wind uplift resistance at a 250 mm batten gauge that meet 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.

#### 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 sheet sarking, for example OSB, plywood, chipboard and insulation for warm-roof design. They may also be used in applications where slates are nailed directly onto sarking boards.
- 8.5 Sarking boards, 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 normal loads associated with installation of the roof.

## 10 Properties in relation to fire

- 10.1 The products are classified as Class E\* in accordance with BS EN 13501-1: 2007.
- 10.2 The products will have similar properties in relation to fire to those of traditional polyethylene roof tile underlays.
- 10.3 When the products are used unsupported, there is a risk that fire can spread if the materials are accidently 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 material being ignited.
- 10.4 When the products are used in a fully-supported situation, the reaction to fire will be determined by the support.

## 11 Maintenance

As the products are confined within the roof system and have suitable durability (see section 12), maintenance is not required. However, any damage occurring before enclosure must be repaired (see section 16).

## 12 Durability



The products will be virtually unaffected by normal conditions found in a roof space and will have a life comparable to that of traditional roof tile underlays, provided they are not exposed to sunlight for long periods (see section 14.5). Advice regarding exposure can be obtained from the Certificate holder.

## 13 Reuse and recyclability

The products are made from polyolefins, which can be recycled.

<sup>(2)</sup> Mean of test results.

## 14 General

- 14.1 Juta Easy Trim and Juta Easy Breather Membranes 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 + A1 : 2015 and BS 8000-6 : 2013. Installation can be carried out under all conditions normal to roofing work.
- 14.2 The products have a high coefficient of friction, either wet or dry, giving a slip-resistant surface for increased safety during the installation of the tiles or slates.
- 14.3 The products are installed with the coloured or printed side uppermost and lapped to shed water out and down the slope.
- 14.4 Overlaps must be provided with the minimum dimensions given in Table 7. The Certificate holder's advice must be sought when using tapes for sealing overlaps.

### Table 7 Minimum overlaps

Doof witch (0)	Horizonta	Variable of terms	
Roof pitch (°)	Not fully supported	Fully supported	Vertical laps (mm)
12.5 to 14	225	150	100
15 to 34	150	100	100
35+	100	75	100

14.5 Where possible, eaves guards should be used to protect the products from sunlight and 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 sarking boards of softwood, C4 grade chipboard or water-resistant grade plywood or water-resistant grade OSB and either with continuous insulation or insulation placed between the rafters.
- 15.3 The products are secured to the support with counterbattens at least 12 mm thick, to create an air space between the product and the tiles for drainage and vapour dispersal. The counterbattens are fixed with corrosion-resistant staples or galvanized clout nails as appropriate. Tiling battens are secured to the counterbattens and rafters with appropriate fixings.
- 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 Repair

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

## 17 Finishing

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

17.2 The tiling and slating must be carried out in accordance with the relevant clauses of BS 5534 : 2014 + A1 : 2015, BS 8000-6 : 2013 and the Certificate holder's instructions, especially when using tightly-jointed slates or tiles.

## **Technical Investigations**

## 18 Tests

18.1 An assessment was made on 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\*
- resistance to penetration of air\*.

#### 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 incorporating the products, and specifically those containing sarking boards, was examined.
- 19.3 Using computer modelling, cold non-ventilated roofs were analysed for risk of condensation. This assessment was used as the basis for acceptance for use of the products in cold roofs with ridge or high level ventilation only.

## **Bibliography**

BS 5250 : 2011 Code of practice for control of condensation in buildings

BS 5534 : 2014 + A1 : 2015 Slating and tiling for pitched roofs and vertical cladding — Code of practice

BS 8000-6: 2013 Workmanship on building sites — Code of practice for slating and tiling of roofs and walls

BS EN 1991-1-4: 2005 Eurocode 1: Actions on structures — General actions — Wind actions

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

BS EN 13501-1 : 2007 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 : 2008 Quality management systems — Requirements

## **Conditions of Certification**

## 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 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.