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Agrément Certificate

05/4287

Product Sheet 3

ARMOURPLAN WATERPROOFING SYSTEMS

ARMOURPLAN P ROOF WATERPROOFING SYSTEM

This Agrément Certificate Product Sheet⁽¹⁾ relates to the Armourplan P Roof Waterproofing System, comprising a polyester scrim reinforced single-ply PVC membrane for use in mechanically fastened and loose-laid and ballasted waterproofing systems on flat and pitched roofs with limited access.

(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 — the system will resist the passage of moisture into a building (see section 6).

Behaviour in relation to fire — the system can enable a roof to be unrestricted under the national Building Regulations (see section 7).

Resistance to wind uplift — the system will resist the effects of any likely wind suction acting on the roof (see section 8).

Resistance to foot traffic — the system will accept the limited foot traffic and loads associated with installation and maintenance (see section 9).

Durability — under normal service conditions, the system will provide a durable roof waterproofing with a service life in excess of 30 years (see section 11).



The BBA has awarded this Certificate to the company named above for the system described herein. This system have 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 Third issue: 5 June 2018

John Albon – Head of Approvals
Construction Products

Originally certificated on 16 October 2005

Claire Curtis-Thomas
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
Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.*

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

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Page 1 of 11

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Regulations

In the opinion of the BBA, the Armourplan P Roof Waterproofing System, 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:	B4(2)	External fire spread
Comment:		On suitable substructures, the use of the system can enable a roof to be unrestricted by this Requirement. See section 7 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The membrane, including joints, will enable a roof to satisfy this Requirement. See section 6.1 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The system is acceptable. See section 11 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Durability, workmanship and fitness of materials
Comment:		Use of the system satisfies the requirements of this Regulation. See sections 10.1 and 11 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	2.8	Spread from neighbouring buildings
Comment:		The system, when applied to a suitable substructure, can be regarded as having low vulnerability under clause 2.8.1 ⁽¹⁾⁽²⁾ of this Standard. See section 7 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The membrane, including joints, will enable a roof to satisfy the requirements of this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.7 ⁽¹⁾⁽²⁾ . See section 6.1 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system 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 system 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 system is acceptable. See section 11 and the <i>Installation</i> part of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The membrane, including joints, can enable a roof to satisfy the requirements of this Regulation. See section 6.1 of this Certificate.

Regulation:	36(b)	External fire spread
Comment:	On suitable substructures, the use of the system can be unrestricted by this Regulation. See section 7 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* (1.2) and 3 *Delivery and site handling* (3.3) of this Certificate.

Additional Information

NHBC Standards 2018

In the opinion of the BBA, the Armourplan P Roof Waterproofing System, 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 7.1 *Flat roofs and balconies*.

CE marking

The Certificate holder has taken the responsibility of CE marking the membrane, in accordance with harmonised European Standard BS EN 13956 : 2012. 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 The Armourplan P Roof Waterproofing System consists of a flexible polyvinyl chloride (PVC) single-ply roof waterproofing membrane, reinforced with polyester scrim (113 g·m⁻²).

1.2 The membrane is manufactured to the nominal characteristics given in Table 1.

Table 1 Nominal characteristics

Characteristic (unit)	P120
Thickness* (mm)	1.2
Roll width* (mm)	1060, 1500, 2120
Roll length (m)	20
Mass per unit area* ($\text{kg}\cdot\text{m}^{-2}$)	1.7
Tensile strength* ($\text{N per } 50 \text{ mm}^{-1}$)	
longitudinal direction	≥ 1500
transverse direction	≥ 1200
Elongation* (%)	
longitudinal direction	≥ 15
transverse direction	≥ 15
Tear resistance* (N)	
longitudinal direction	≥ 150
transverse direction	≥ 150
Nail tear (N)	
longitudinal direction	≥ 150
transverse direction	≥ 150
Foldability at low temperature* ($^{\circ}\text{C}$)	
unaged	≤ -30
UV aged ⁽¹⁾	≤ -30
heat aged ⁽²⁾	≤ -30
Static loading* (kg)	
soft support	≥ 20
hard support	≥ 20
Resistance to impact* (mm)	
soft support	≥ 1100
hard support	≥ 450
Hail resistance* ($\text{m}\cdot\text{s}^{-1}$)	
soft support	≥ 30
hard support	≥ 20
Peel resistance of joints* (N)	
unaged	≥ 200
heat aged ⁽³⁾	≥ 200
Standard colours	mid-grey, light grey and slate grey
Plasticiser type	phthalate

(1) UV aged 1000 light hours.

(2) Heat aged for 12 weeks at 70°C .

(3) Heat aged for four weeks at 80°C .

1.3 Ancillary items necessary for installation of the system and included in this assessment are:

- Armourplan PVC Contact Adhesive — ready-to-use contact adhesive for adhering PVC roofing membranes onto various substrates
- IKOfix Fixing Range — mechanical fixings and pressure plates for attachment of membranes and insulation boards
- IKOfix Toothed Flatbar — steel fixing strips for membrane anchorage on mechanically fastened, inverted and ballasted systems
- Armourplan Membrane Coated Metal — 0.6 mm galvanized steel sheet, coated with 0.6 mm of Armourplan PVC Membrane, for use in detailing
- Armourplan Walkway — for use in areas of increased pedestrian traffic, such as for maintenance of plant
- Spectravap — a polyethylene vapour control layer (VCL)
- IKO Systems Torch-On Underlay — a torch-on VCL suitable for metal decks (IKOpro Fast Dry Primer, the subject of a BBA Certificate 91/2671, is required)
- IKO Systems S-A Underlay — a self-adhesive VCL (IKOpro Systems Bonding Agent, the subject of a BBA Certificate 91/2671, is required)
- Polimar UV Detailing Liquid — a liquid-applied system for complex detailing (subject of BBA Certificate 14/5178).

1.4 Other items or components which may be used with the system, but which are outside the scope of this Certificate, are:

- Armourplan Detailing Membrane — homogeneous or glass tissue reinforced PVC membrane for complex detailing
- Armourplan Walkway — PVC membrane with slip-resisting surface for use on walkway areas
- Armourplan Cover Strips — glass tissue and polyester scrim reinforced membrane cover strips for jointing coated metals and detailing
- Armourplan Pre-formed Corners — pre-formed internal and external corners
- Armourplan Outlet Pipes
- Armourplan Seam Cleaner — preparation solvent for cleaning PVC roofing membranes as required (eg prior to welding)
- Armourplan PVC Standing Seam Profile — pre-formed PVC profile used to simulate a metal standing seam roof
- Armourflow Coated Metal — pre-coated flat metal sheet for fabrication of gutters, 1.2 mm thick steel with 1.2 mm thick Armourplan membrane
- Armourplan Drip Details — prefabricated drip details
- Armourplan Chase Termination Details — prefabricated chase termination details
- Membrane Pipe and Post Details — prefabricated bespoke details formed using Armourplan Detailing Membrane
- Armourprep — acetone-based preparation solution for PVC roofing membranes with heavy moisture contamination
- IKOpro High Performance PU Adhesive — for bonding PIR insulation boards to the substrate
- IKOfix Aluminium Clamping Strips — aluminium clamping strip for upstand termination
- IKO Glass Universal Underlay — torch-on VCL suitable for use on concrete decks (IKOpro Fast Dry Primer required)
- IKO Systems T-O VCL — torch-applied, metal-lined vapour barrier (IKOpro Fast Dry Primer required)
- IKO Systems S-A VCL — self-adhesive, metal-lined vapour barrier (IKOpro Systems Bonding Agent required)
- Challenger Polyester 180 Sand VCL — suitable for pour-and-roll application (IKOpro Fast Dry Primer may be required)
- Spectravap — polyethylene VCL
- IKOpro Systems Bonding Agent — a self-adhesive VCL primer
- IKOpro Quick Dry Bitumen Primer — bituminous primer for torch-on and pour-and-roll VCL applications
- Armourplan PVC Sealant — for sealing detail terminations
- Spectratex Separation Layer — polyester separation and protection layer
- IKO Enertherm PIR — polyisocyanurate board with mineral glass tissue facings on both sides, or alternatively coated on both sides with a tri-ply gastight aluminium multi-layer complex.

2 Manufacture

2.1 The membrane is manufactured by an extrusion and calendaring process.

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 operated by the manufacturer are being maintained.

2.3 The management system of IKO PLC has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by BSI (Certificate FM45901).

3 Delivery and site handling

3.1 The membrane is delivered to site in rolls wrapped in plastic bearing the product name, Certificate holder's name, product dimensions, article number and batch number.

3.2 Rolls should be stored horizontally, undercover and on a clean, level surface.

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

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on the Armourplan P Roof Waterproofing System.

Design Considerations

4 Use

4.1 The Armourplan P Roof Waterproofing System is satisfactory for use as a roof waterproofing membrane in mechanically fastened and loose-laid and ballasted installations on flat and pitched roofs with limited access.

4.2 Limited access roofs are defined for the purpose of this Certificate as those subjected only to pedestrian traffic for maintenance of the roof covering, cleaning of gutters, etc. Where traffic in excess of this is envisaged, additional protection to the membrane must be provided (see section 9).

4.3 Flat roofs are defined for the purpose of this Certificate as those having a minimum finished fall of 1:80. For design purposes, twice the minimum finished fall should be assumed, unless a detailed analysis of the roof is available, including overall and local deflection, direction of falls, etc. Pitched roofs are defined for the purpose of this Certificate as those having a fall greater than 1:6.

4.4 Decks to which the system is to be applied must comply with the relevant requirements of BS 6229 : 2003 or BS 8217 : 2005 and, where appropriate, *NHBC Standards 2018*, Chapter 7.1.

4.5 Insulation materials to be used in conjunction with the membrane must be in accordance with the Certificate holder's instructions and be either:

- as described in the relevant Clauses of BS 8217 : 2005, or
- the subject of a current BBA Certificate and used in accordance with, and within the scope of, that Certificate.

4.6 Contact with bituminous, coal tar and oil-based products or polystyrene insulation boards must be avoided as the membrane is not compatible with lower grades of bitumen. If contact with such products is likely, a separating layer must be interposed before installing the waterproofing sheet. Where doubt arises, the advice of the Certificate holder should be sought.

4.7 Dead loads, wind loading and imposed loads are calculated in accordance with BS EN 1991-1-1 : 2002, BS EN 1991-1-3 : 2003, BS EN 1991-1-4 : 2005 and their UK National Annexes.

5 Practicability of installation

Installation must be carried out only by installers trained and approved by the Certificate holder.

6 Weathertightness



6.1 The membrane, including joints, when completely sealed and consolidated, will adequately resist the passage of moisture into the building and enable a roof to comply with the requirements of the national Building Regulations.

6.2 The membrane is impervious to water and will provide a weathertight roof capable of accepting minor structural movement.

7 Behaviour in relation to fire



7.1 When classified in accordance with BS EN 13501-5 : 2005, a system comprising a 0.7 mm trapezoidal steel deck, a 0.3 mm Spectravap polyethylene VCL, a 130 mm PIR insulation and a layer of 1.2 mm Armourplan P membrane, mechanically fastened, achieved a B_{ROOF}(t4) rating.

7.2 The membrane, when used in protected specifications, including an inorganic covering listed in the Annex of Commission Decision 2000/553/EC, can be considered to be unrestricted under the national Building Regulations.

7.3 The designation of other specifications (eg when used on combustible substrates) should be confirmed by:

England and Wales — test or assessment in accordance with Approved Document B, Appendix A, Clause 1

Scotland — test to confirm Mandatory Standard 2.8, clause 2.8.1 and Annex 2.C

Northern Ireland — test or assessment carried out by a UKAS-accredited laboratory or an independent consultant with appropriate experience.

8 Resistance to wind uplift

8.1 The precise ballast requirement should be calculated by a suitably qualified and experienced individual in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex, but should not be below a minimum thickness of 50 mm. The use of concrete slabs on suitable protective supports should be considered in areas of high design wind loads.

8.2 The resistance to wind uplift of a mechanically fastened waterproofing layer is provided by the fasteners passing through the membrane into the substrate. The number and position of fixings will depend on a number of factors including:

- wind uplift forces to be restrained
- pull-out strength of the fasteners
- tensile properties of the membrane
- appropriate calculation of safety factors.

8.3 The wind uplift forces are calculated in accordance with BS EN 1991-1-4 : 2005 and its UK National Annex.

9 Resistance to foot traffic

The system can accept the limited foot traffic and light concentrated loads associated with installation and maintenance. Reasonable care should be taken to avoid puncture by sharp objects or concentrated loads. Where traffic in excess of this is envisaged, such as for maintenance of lift equipment, a walkway should be provided, for example, using concrete slabs supported on bearing pads.

10 Maintenance



10.1 The system must be the subject of annual inspection and maintenance to ensure continued performance.

10.2 Maintenance should include checks and operations to ensure:

- exposed membrane is free from the build-up of silt and other debris
- integrity of the joints in the membrane
- integrity of the detailing
- adequate ballast is in place and evenly distributed over the membrane
- protection layers are in good condition.

10.3 Where damage has occurred it should be repaired in accordance with section 15 and the Certificate holder's instructions.

11 Durability



11.1 Under normal service conditions, the system will provide a durable roof waterproofing with a service life in excess of 30 years.

11.2 In environments where the membrane is in contact with organic solvents, the life expectancy of the membrane may be reduced. In cases of doubt, the advice of the Certificate holder should be sought.

Installation

12 General

12.1 Installation of the Armourplan P Roof Waterproofing System must be carried out in accordance with the relevant clauses of the Certificate holder's instructions, BS 8000-0 : 2014, BS 8000-4 : 1989, BS 8217 : 2005, and this Certificate.

12.2 Substrates to which the system is applied must be sound, dry, clean and free from sharp projections such as nail heads and concrete nibs. When used over a rough substrate, a suitable protection layer must be placed over the substrate.

12.3 Installation should not be carried out during inclement weather (eg rain, fog or snow). When the temperature is below 0°C suitable precautions against surface condensation must be taken in accordance with the Certificate holder's instructions.

12.4 When used over bitumen, bitumen-bound insulation products, coal tar, pitch or oil-based products, a separation layer must be interposed between the substrate and the membrane. In cases of doubt, the advice of the Certificate holder should be sought.

12.5 Ballast or other bulk material must not be stored on one area of the roof prior to installation, to ensure localised overloading does not occur.

13 Procedure

Mechanically fastened applications

13.1 The membrane should be unrolled onto the substrate without undulations, with 110 mm minimum side laps and 60 mm minimum end laps.

13.2 The membrane is fixed to the deck (through insulation boards, where appropriate) in the joint overlaps prior to welding seams in accordance with the Certificate holder's instructions.

13.3 The membrane should be fixed at the edges either by mechanically fastening using IKO Toothed Flatbar or by hot-air welding to mechanically fastened flashings of Armourplan Membrane Coated Metal.

Loose-laid and ballasted applications

13.4 The membrane is loose-laid over the substrate allowing for a minimum 60 mm overlap to subsequent sheets at the sides and ends.

13.5 The membrane should be fixed at the edges with IKOfix Toothed Flatbar or hot-air welded to mechanically fastened flashings of Armourplan Membrane Coated Metal.

13.6 A layer of Spectratex Separation Fleece should be installed over the completed area of membrane roof, and ballasted with suitable concrete paving slabs on proprietary support pads or a 50 mm depth of well-rounded gravel.

14 Jointing and flashing procedure

Hot-air welding

14.1 The welding area must be dry and clean. If the membrane in the weld area has become contaminated, it must be cleaned in accordance with the Certificate holder's instructions.

14.2 Welding may be achieved by automatic or hand-operated machines in accordance with the Certificate holder's instructions.

14.3 The welded width of the joint must be a minimum of 30 mm when welded with an automatic welding machine and a 40 mm final weld width when welded with hand-operated machines. On completion of the weld, the seam should be tested with a suitable metal probe, and any weakness repaired immediately.

14.4 The seam is tested with a metal probe to highlight poorly welded areas. Any such areas should be made good using hot-air welding.

Flashing

14.5 Flashing and detailing should be carried out in accordance with the Certificate holder's instructions.

15 Repair

In the event of damage, repairs can be carried out by cleaning the area around the damage and applying a patch of the appropriate membrane in accordance with the Certificate holder's instructions.

Technical Investigations

16 Tests

16.1 An assessment was made on data in relation to:

- dimensions
- mass per unit area
- tensile strength and elongation
- dimensional stability
- resistance to tear
- low temperature foldability
- resistance to static load
- resistance to impact
- watertightness
- resistance to artificial ageing
- joint peel resistance
- joint shear resistance.

16.2 Tests were carried out by the BBA and the results assessed to determine:

- peel from substrate – control and heat aged for 28 days at 80°C
- resistance to wind uplift.

17 Investigations

17.1 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.

17.2 Existing data on fire performance of the membranes were assessed.

Bibliography

BS 6229 : 2003 *Flat roofs with continuously supported coverings — Code of practice*

BS 8000-0 : 2014 *Workmanship on construction sites — Introduction and general principles*

BS 8000-4 : 1989 *Workmanship on building sites — Code of practice for waterproofing*

BS 8217 : 2005 *Reinforced bitumen membranes for roofing — Code of practice*

BS EN 1991-1-1 : 2002 *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

NA to BS EN 1991-1-1 : 2002 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Densities, self-weight, imposed loads for buildings*

BS EN 1991-1-3 : 2003 + A1 : 2015 *Eurocode 1 — Actions on structures — General actions — Snow loads*

NA : +A1 : 15 to BS EN 1991-1-3 : 2003 + A1 : 2015 UK National Annex to *Eurocode 1 — Actions on structures — General actions — Snow loads*

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 13501-5 : 2005 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roofs tests*

BS EN 13956 : 2012 *Flexible sheet for waterproofing — Plastic and rubber sheets for roof waterproofing — Definitions and characteristics*

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

18 Conditions

18.1 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.

18.2 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.

18.3 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.

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

18.5 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.

18.6 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.