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**European Technical Assessment Body
for construction products**



European Technical Assessment

**ETA-24/0440
of 25 March 2025**

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Dukkaboard Verso-Flex Waterproofing System

Product family
to which the construction product belongs

Watertight covering kits based on flexible sheets for wet
room floors and/or walls

Manufacturer

Trimline Group Ltd
Teardrop Centre Unit 1, Teardrop Industrial Park
London Road
GB BR8 8TS SWANLEY
UNITED KINGDOM

Manufacturing plant

Manufacturing plant BR8

This European Technical Assessment
contains

11 pages including 5 annexes which form an integral part
of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 030436-00-0503

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Specific Part

1 Technical description of the product

"Dukkaboard Verso-Flex Waterproofing System" is a watertight covering kit based on flexible sheets for wet room floors and walls. The kit consists of:

- Flexible sheet: "Dukkaboard Deco-Shield VF230 Membrane" on the basis of polyethylene, both sides backed with polyester fleece with/without fleece-free edge.
- Primers (if required):
"Dukkaboard Aqua77 Primer",
"Dukkaboard VP Vapour Primer",
"Dukkaboard SP Gritted Primer".
- Adhesives for bonding the sheet on the substrate:
"Dukkaboard Iso-Koll" (sealing slurry),
"Validus Sero"(tile adhesive).
- Sealing adhesive for bonding the seams and embedding the sealing tapes, collars and corners:
"Dukkaboard Iso-Koll" (sealing slurry).
- Sealing tapes:
"Dukkaboard Flex-Seal FS120 Tape",
"Dukkaboard Deco-Shield VF120 tape",
"Dukkaboard SA120 Tape".
- Sealing collars for walls:
"Dukkaboard Flex-Seal FS100 Collar",
"Dukkaboard Flex-Seal FS150 Collar",
"Dukkaboard Flex-Seal FS200 Collar".
- Sealing collars for floor drains:
"Dukkaboard Flex-Seal FS350 Collar",
"Dukkaboard CSA370 collar".
- Sealing internal and external corners:
"Dukkaboard Flex-Seal FS90 internal corner",
"Dukkaboard Flex-Seal FS270 external corner",
"Dukkaboard Deco-Shield VF90 internal corner",
"Dukkaboard Deco-Shield VF270 external corner".
- Adhesive for tiles according to EN 12004¹ on the basis of cement mortar: "Validus Sero".

The kit is intended to be used under a wearing surface, e.g., tiles. The wearing surface and the jointing material are not part of the kit, but are considered during the assessment of the intended use of the product. Pipes and floor gullies themselves are not part of the kit.

Annexes A2 to A4 show the system build-up and the components for sealing of details.

¹ EN 12004:2007+A1:2012 Adhesives for tiles – Requirements, evaluation of conformity, classification and designation

2 Specification of the intended use in accordance with the applicable European Assessment Document

The kit is intended for the waterproofing of floors and walls in indoor wet areas under a wearing surface at possible temperature of between 5 °C and 40 °C.

The following uses are intended:

- Floor and/or wall surfaces with only occasional direct exposure to water, e. g., at a good distance from shower or bathtub.
- Floor and/or wall in shower areas or around bathtubs used for a few showers daily, e. g., in ordinary dwellings, multifamily houses and hotels.
- Floor and/or wall surfaces with exposure to water more frequent or of longer duration than normally anticipated in dwellings, e. g., public wet rooms, schools and sport facilities.

The waterproofing system is intended to be used on flexible substrate e. g., plywood, chipboard, gypsum, anhydrite or similar material vulnerable to water and on rigid substrates e. g., masonry or concrete.

The product is used in connection with the following types of drains:

Stainless steel or plastics – type PP or PE – with flange for attaching of collar/waterproofing layer or with clamping ring and collar. It is up to the responsibility of the user to use suitable products of the given types.

The performances given in Section 3 are only valid if the watertight covering kit is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents².

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the watertight covering kit of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	See Annex A1

² The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for repair of the waterproofing made from that and it is deposited with DIBt.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or Release of dangerous substances:	See Annex A1
Vapour permeability	See Annex A1
Watertightness	See Annex A1
Crack bridging ability	See Annex A1
Bond strength	See Annex A1
Scratching resistance	See Annex A1
Joint bridging ability	See Annex A1
Watertightness around penetration	See Annex A1
Resistance to temperature	See Annex A1
Resistance to water	See Annex A1
Resistance to alkalinity	See Annex A1
Resistance to mechanical wear	See Annex A1
Joint strength	See Annex A1
Flexibility	See Annex A1

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Slipperiness	See Annex A1
Repairability	See Annex A1
Thickness	See Annex A1

3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. The Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical documents of the manufacturer are kept.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 030436-00-0503, the applicable European legal act is: 2003/665/EC.

The system to be applied is: 2+

In addition, with regard to reaction to fire for products covered by this EAD the system to be applied is: 3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 25 March 2025 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Hannoun

Working life		25 years
Essential characteristic		Performance
Reaction to fire	EN 13501-1	Class E
Content, emission and/or release of dangerous substances ^{a)}		
_ Component: Tile adhesive (CE-marked)		According to EN 12004
_ All other components:		NPA
Vapour permeability (Water vapour diffusion-equivalent air layer thickness; 23 °C – 75/100 % r.h.) "Dukkaboard Deco-Shield VF230 Membrane"		s _d ≈ 46 m
Water tightness		Watertight
Crack bridging ability		Category 3: Crack width 1.5 mm
Bond strength using the tile adhesive: "Validus Sero"		Category 2: Bond strength ≥ 0.3 MPa
Scratching resistance		NPA (not relevant)
Joint bridging ability		Can bridge joints (watertight, joint width 2 mm)
Water tightness around penetrations (Tests according to Annex A and Annex F of EAD 030352-00-0503)		Watertight (on flexible and rigid floors and walls)
Resistance to temperature:		
_ Tensile strength (change after aging / delivery state)		≤ ±20 % (temperature resistant)
_ Elongation (change after aging / delivery state)		
Resistance to water		Category 2: Bond strength ≥ 0.3 MPa
Resistance to alkalinity:		Category 2: 50°C /16 weeks
_ Tensile strength (change after aging / delivery state)		≤ ±20 % (alkali resistant)
_ Elongation (change after aging / delivery state)		
Resistance to mechanical wear		NPA (not relevant)
Joint strength		NPA
Flexibility		NPA (not relevant)
Slipperiness		NPA
Repairability		Repairable
Thickness		
_ Total thickness of the waterproofing sheet (including fleece backing)		0.6 mm
_ Effective thickness of the waterproofing sheet (waterproofing layer, without backing)		≥ 0.2 mm
(NPA: no performance assessed)		
a) Release scenarios regarding BWR 3: IA 2.		

Dukkaboard Verso-Flex Waterproofing System Trimline Group Ltd	Annex A1
Levels of use categories and performances of the product	

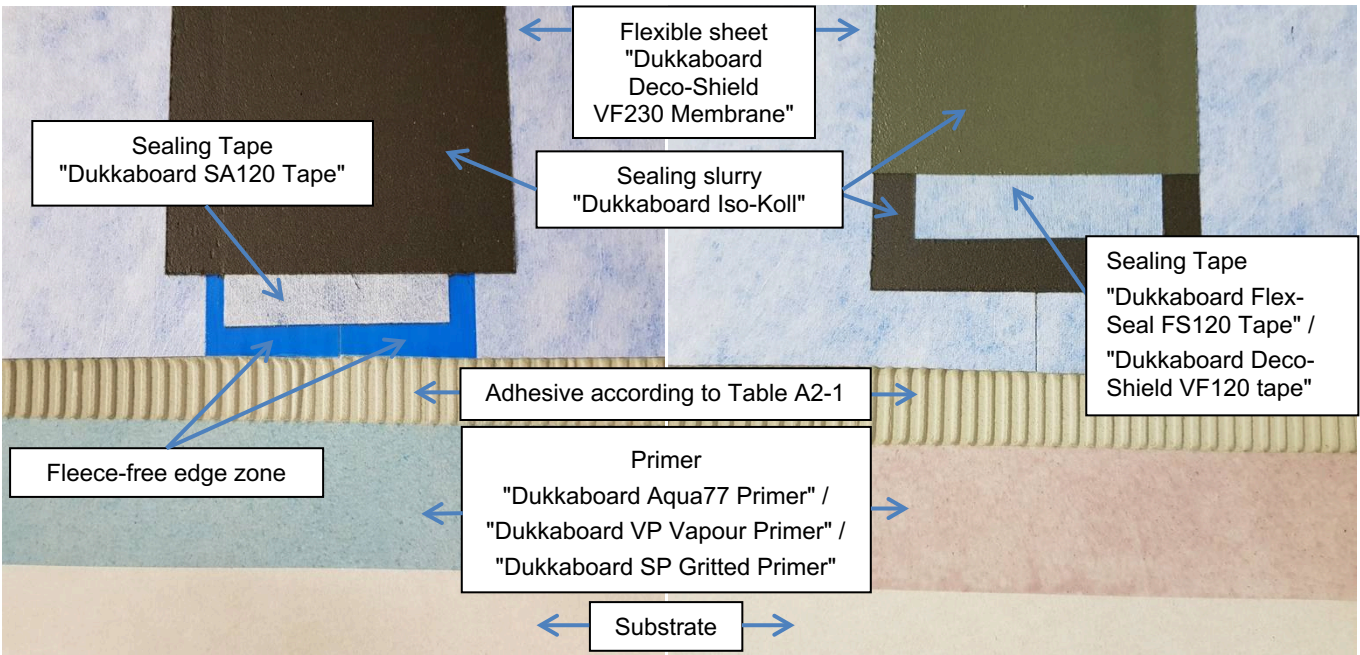


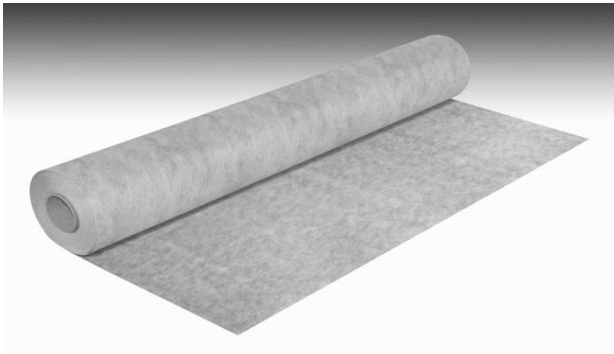
Table A2-1: Adhesives for bonding the sheet on the substrate

"Dukkaboard Iso-Koll" (sealing slurry)	"Validus Sero" (tile adhesive)
----------------------------------------	--------------------------------

Table A2-2: Adhesive for tiles according to EN 12004 (over the sheet)

"Validus Sero"

Flexible sheet:



"Dukkaboard Deco-Shield VF230 Membrane" (with and without fleece-free edge zone)

Dukkaboard Verso-Flex Waterproofing System
Trimline Group Ltd

System built-up and Components

Annex A2

Sealing tapes:



"Dukkaboard Flex-Seal FS120 Tape", width 120 mm

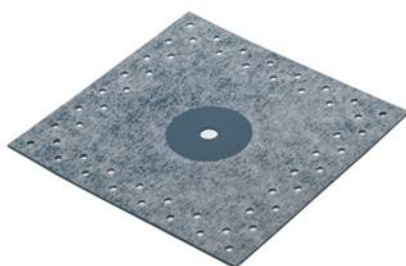


"Dukkaboard Deco-Shield VF120 tape"
(with and without perforation), width 120 mm



"Dukkaboard SA120 Tape ", width 120 mm

Sealing collars for pipe penetrations:



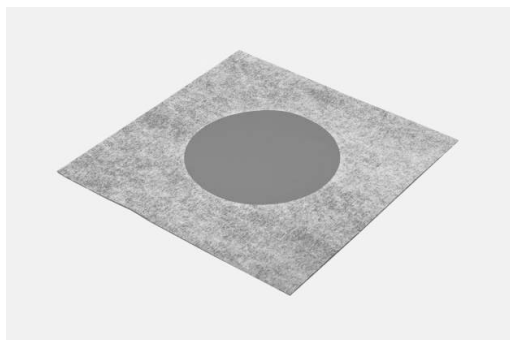
"Dukkaboard Flex-Seal FS100 Collar", 100 x 100 mm
"Dukkaboard Flex-Seal FS150 Collar", 150 x 150 mm
"Dukkaboard Flex-Seal FS200 Collar", 200 x 200 mm
(with and without perforation)

Dukkaboard Verso-Flex Waterproofing System
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Components

Annex A3

Sealing collars for floor drains:

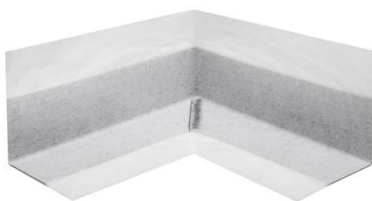


"Dukkaboard Flex-Seal FS350 Collar"
(with and without perforation), 350 x 350



"Dukkaboard CSA370 collar", 370 x 370 mm

Sealing internal corners:



"Dukkaboard Flex-Seal FS90 internal corner"

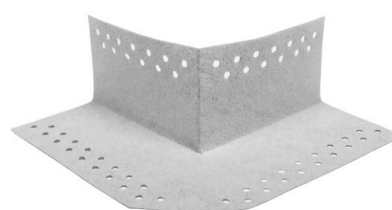


"Dukkaboard Deco-Shield VF90 internal corner"
(with and without perforation)

Sealing external corners:



"Dukkaboard Flex-Seal FS270 external corner"



"Dukkaboard Deco-Shield VF270 external corner"
(with and without perforation)

Dukkaboard Verso-Flex Waterproofing System
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Components

Annex A4

Installation

The levels of use categories and the performance of the waterproofing kit can be assumed only if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel;
- installation of only those components which are specified components of the kit;
- installation with the required tools and adjuvant;
- precautions during installation;
- inspecting the substrate surface for cleanliness and correct treatment;
- inspecting during installation and of the finished watertight membrane and documentation of the results.

Dukkaboard Verso-Flex Waterproofing System
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Intended use
Specifications for the installation

Annex B