

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-19/0142
of 28 May 2019

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

LITEX Membranduk System

Product family
to which the construction product belongs

Flexible sheets for wet room floors and or walls

Manufacturer

LITEX AS
Pindsleveien 4
3211 SANDEFJORD
NORWEGEN

Manufacturing plant

Produktionsanlage 3221

This European Technical Assessment
contains

10 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

ETAG 022 Part 2: "Kits based on flexible sheets",
used as EAD according to Article 66 Paragraph 3 of
Regulation (EU) No 305/2011.

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Specific part

1 Technical description of the product

The watertight covering "LITEX Membranduk System" is a kit for wet room floors and walls. It consists of the following components:

- flexible sheet "LITEX Membranduk" on the basis of polyethylene both sides clutched with polyester fleece with/without fleece-free edge
- primer coat "LITEX Universal primer" (if required)
- adhesive for the sheet and sealing sleeve
"LITEX 2-Komponent Lim" or
"LITEX Monteringslim universal"
- sealing tapes
"LITEX Membrantape"
"LITEX Skjøtebånd Gummiert"
"LITEX Tettebånd N"
"LITEX Tettebånd P"
- sealing tapes/sleeves for floor gullies and penetrations
"LITEX Rørmansjett 8 mm"
"LITEX Rørmansjett 16 mm"
"LITEX Rørmansjett 28 mm"
"LITEX Rørmansjett 40 mm"
"LITEX Rørmansjett 65 mm"
"LITEX Rørmansjett 90 mm"
"LITEX Sluksamansjett universal"
"LITEX Sluksamansjett Purus Line"
"LITEX Selvklebende mansjett Butyl"
- sealing tapes/sleeves for corners (inside)
"LITEX Mansjett Innvendig hjørne"
"LITEX Mansjett Innvendig N"
"LITEX Mansjett Innvendig P"
- sealing tapes/sleeves for corners (outside)
"LITEX Mansjett Utvendig hjørne"
"LITEX Mansjett Utvendig N"
"LITEX Mansjett Utvendig P"
- adhesives for tiles "Sakret FFK" on the basis of cement mortar according EN 12004¹

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.

Annex A1 shows the system build-up and annex A2 to A4 shows the components for sealing details.

¹

EN 12004:2007

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 intended use of the watertight covering under a wearing surface is to create a floor and wall watertight covering for indoor wet areas at possible operating temperature of 5 °C till 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 watertight membrane 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 should be used in connection with the following types of gullies: stainless steel or plastics with flange for attaching with clamping ring and collar.

The gullies are not part of the kit. 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.

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 |

3.2 Hygiene, health and the environment (BWR 3)

| Essential characteristic | Performance |
|---|-------------------------|
| Content and/or Release of dangerous substances: | |
| Component: Tile adhesive (CE-marked) | According to EN 12004 |
| All other components | no performance assessed |
| Vapour permeability | See Annex A1 |
| Watertightness | See Annex A1 |
| Crack bridging ability | See Annex A1, category |

| | |
|-----------------------------------|--------------------------------------|
| Bond strength | See Annex A1, category |
| Scratching resistance | See Annex A1 |
| Joint bridging ability | See Annex A1, category |
| Watertightness around penetration | See Annex A1, category |
| Joint strength | See Annex A1 |
| Flexibility | See Annex A1 |
| Dimensions stability | See Annex A1 |
| Resistance to temperature | See Annex A1, category |
| Resistance to water | See Annex A1, category |
| Resistance to alkalinity | See Annex A1, category |
| Resistance to mechanical wear | See Annex A1 |
| Cleanability | See Annex A1 |
| Reparability | See Annex A1, manufacturer statement |
| Thickness | See Annex A1 |
| Applicability | See Annex A1, description |

3.3 Safety and accessibility (BWR 4)

| Essential characteristic | Performance |
|--------------------------|--------------|
| Slipperiness | See Annex A1 |

3.4 General aspects

The verification of durability and serviceability is only ensured if the specifications of intended use according to Annex B1 and the specifications of the technical file of the manufacturer are kept.

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

According to ETAG 022 used as EAD 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

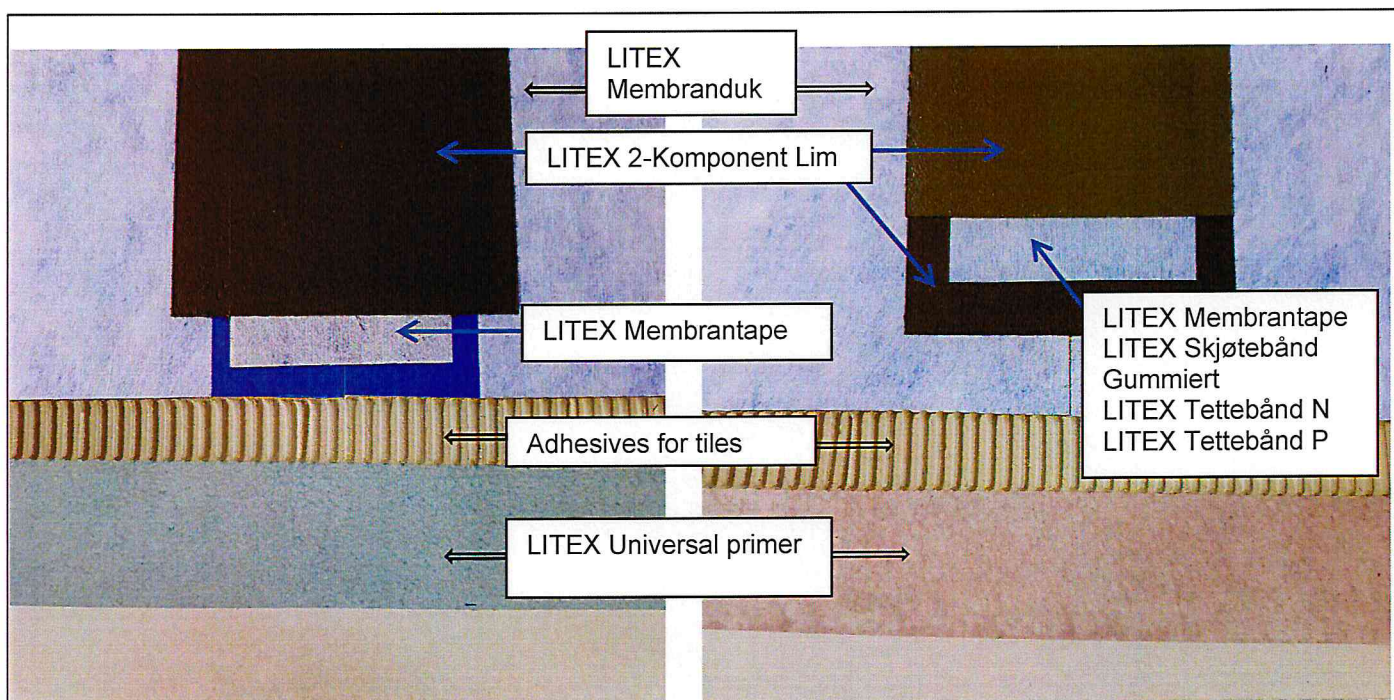
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 28 May 2019 by Deutsches Institut für Bautechnik

Dr.-Ing. Lars Eckfeldt
p. p. Head of Department

beglaubigt:
Gnamou



Minimum layer thickness of the waterproofing sheet 0.6 mm

Performance of the product:

| | |
|---|---|
| Working life | 25 years |
| Reaction to fire acc. to EN 13501-1 | class E |
| Statement on dangerous substance | no performance assessed |
| Water vapour diffusion resistance factor 23°C - 75/100% r.h. | $s_d = 45.8 \text{ m}$ |
| Water tightness acc. to EN 13967 | watertight |
| Dimensional Stability | Longitudinal - 0.6 %, transversal - 1.0 |
| Scratching resistance | no performance assessed |
| Resistance to mechanical wear | not relevant |
| Flexibility | not relevant |
| Cleanability | not relevant |
| Reparability | reparable |
| Slipperiness | no performance assessed |
| Applicability | applicable |

Level of use categories according to ETAG 022 with relation to:

| | |
|-------------------------------------|-----------------------|
| Crack bridging ability | category 3: 1.5 mm |
| Bond strength | category 2: > 0.3 MPa |
| Joint bridging ability | category 2 |
| Water tightness around penetrations | category 2 |
| Resistance to water | category 2 |
| Resistance to temperature | resistant |
| Resistance to alkalinity | category 2 |

LITEX Membranduk System
LITEX AS

System built-up, levels of use categories and performances of the product

Annex A1

Waterproofing sheet

LITEX Membranduk (with and without fleece-free edge zone)



Sealing tape:

LITEX Skjøteband Gummiert



LITEX Tetteband N



LITEX Membrantape

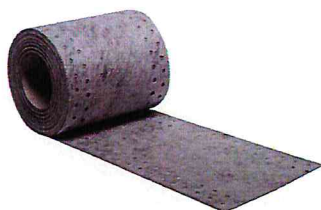


LITEX Membranduk System
LITEX AS

Details and components

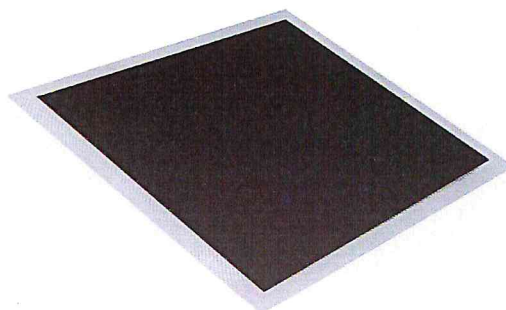
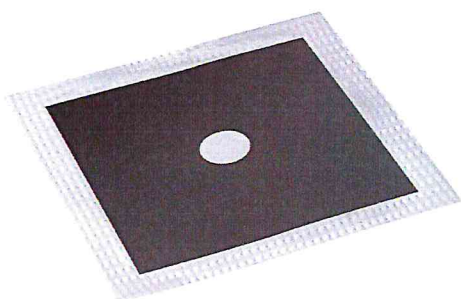
Annex A2

LITEX Tettebånd P (with and without perforation)



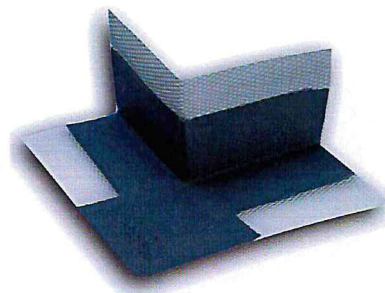
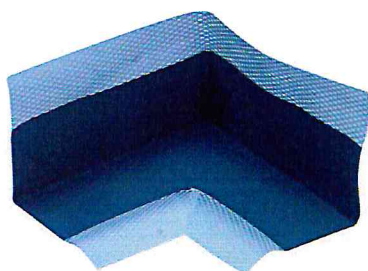
Sealing tapes/sleeves

LITEX Rørmansjett



Ingoing / outgoing corners

LITEX Mansjett Innvendig hjørne

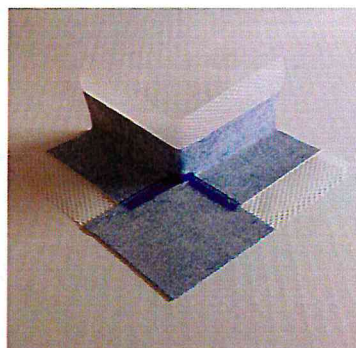


LITEX Membranduk System
LITEX AS

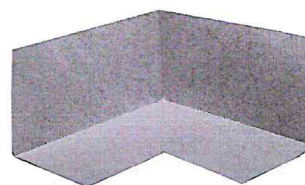
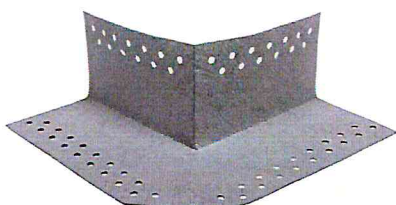
Details and components

Annex A3

LITEX Mansjett Innvendig N



LITEX Mansjett Innvendig P (with and without perforation)



LITEX Membranduk System
LITEX AS

Details and 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

LITEX Membranduk System
LITEX AS

Intended use
Specifications

Annex B