ALUJET Floorjet SPEED

Manufacturer

ALUJET GmbH; Ahornstraße 16; 82291 Mammendorf

Product discription

The ALUJET Floorjet SPEED is a heat-reflecting, bitumen-free sealing membrane for sealing floor plates in contact with earth against soil moisture with an ECO certificate. Usability is verified by compliance with the requirements set down in DIN EN 13967 and due consideration of the type of building with a gutachterliche Stellungnahme (expert opinioun) (1204/439/23).

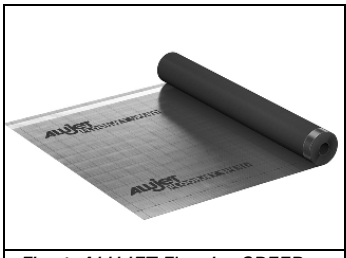

Fig. 1: ALUJET Floorjet SPEED

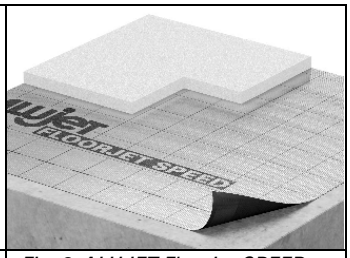

Fig. 2: ALUJET Floorjet SPEED

Construction

Lage	Material
Top	Aluminum composite foil and removable self-adhesive strip
Inlay	PE coating / HDPE fabric / PE coating
Bottom	Polypropylene nonwoven and removable self-adhesive strip

Product benefits

ECO certificate; Heat-reflecting; Bitumen-free; Odour-neutral; Emission free; High tear strength; Extremely robust; Double-sided adhesive strip; Impervious to vapours; very flexible; no restoring forces; low weight; extremely fast installation because 1.50 m wide; Only scissors or cutter necessary for processing; according to DIN EN 13213 chap. 3.3.1.1. - Suitable for cavity floors.

Area of application

The ALUJET Floorjet SPEED meets the requirements of DIN EN 13967:2012. The ALUJET Floorjet SPEED is used as a sealing membrane for sealing floor plates of buildings against rising moisture (load case in accordance with DIN 18195-4 and also W1.1-E and W1.2-E according to DIN 18533-1), for sealing.

The ALUJET Floorjet can also be used as a waterproofing membrane for the waterproofing of floor plates on mezzanine ceilings. The building physics conditions as well as on-site specifications are to be considered here.

Specification

Width:	1.500 mm	1.500 mm	1.500 mm
Length:	50 m	50 m	30 m
Pallet content::	20 rolls	20 rolls	30 rolls
		matt / blendfrei	matt / blendfrei

Storage

The ALUJET Floorjet SPEED is to be stored horizontally or eye to sky on the pallet. Moisture, UV radiation and heat should be avoided. The material should be transported from the warehouse to the construction site immediately before processing.

System components

ALUJET Anschlussstreifen SPEED; ALUJET Montagekleber WAL; ALUJET Allfixx.

Technical data

Properties according to DIN EN 13967		Test	Unit / Type of results	Manufacturer value
5.3	Visible defekts	EN 1850-2	no visible defects	no visible defects
5.4	Length	EN 1848-2	[m] MDV	50 -0 / +1
5.4	Width	EN 1848-2	[m] MDV	1,50 m -0,007 / +0,021
5.4	Straightness	EN 1848-2	passed	passed
5.5	Weight / mass	EN 1849-2	[g / m²] MDV	218 ± 10 %
5.5	Thickness	EN 1849-2	[mm] MDV	Thickness 0,48 mm ± 0,06 mm
5.6	Waterproof to water in liquid phase	DIN EN 1928 procedure B Water pressure 2 kPa Test duration: 24 hours Additionally DIN EN 1928 Procedure B Water pressure 400 kPa Test duration: 72 hours	passed	passed
5.7	Resistance to impact load	EN 12691 Procedure A Underground Al plate Procedure B Underground EPS plate	[mm] MLV	≤ 500 mm falling height: sealed ≤ 800 mm falling height: sealed
5.8.1	Durability of water resistance against artificial aging	EN 1296 und EN 1928 Procedure B	passed	passed
5.8.2	Durability to chemicals - waterproofness	DIN EN 1847 EN 1928 Procedure B	passed	passed
5.9	Compatibility with bitumen	DIN EN 1847 Storage temperature: 23 ± 2 ° C Storage period: 28 days Test liquid: Ca (OH) 2 DIN EN 1928 - Procedure A Water pressure 60 kPa (0.6 bar) Test duration: 24 hours Test climate: DIN EN ISO 291-23 / 50-2	passed	passed
5.10	Tear resistance longitudinal transversal	EN 12310-1	[N] MLV	 ≥ 310 ≥ 330
5.11	Shear resistance of the joint seams	EN 12317-2	[N / 50 mm] MLV	Demolition outside the joint
5.12	Sd-Value	EN 1931 Procedure B Cliamate: 23-0/75	[m] MDV	2100 ± 600

5.13	Resistance to static load	DIN EN 12730 Procedure B Underground concrete load 20 kg sealed	[kg] MLV	≤ 20
5.14	Tensile elongation longitudinal transversal	DIN EN 12311-2 Procedure A V = 100 mm / min free clamping length 120 mm Test climate: DIN EN ISO 291-23 / 50-2	N / 50 mm MLV	 ≥ 560 ≥ 715
5.14	Elongation longitudinal transversal	DIN EN 12311-2 Procedure A V = 100 mm / min free clamping length 120 mm Test climate: DIN EN ISO 291-23 / 50-2	% MLV	 ≥ 20 ≥ 10
5.16	Reaction to fire	DIN EN ISO 11925-2 EN 13501-1	[-] Klasse E	Class E
	Processing temperature		°C	from -10 upwards

Processing

The substrate must be pressure-resistant, level, free of nests, ridges, sharp protrusions and free of contaminants that could damage the membrane.

When used horizontally on the floor slab, the ALUJET Floorjet Speed must always be installed protected between the floor slab and directly applied screed, between the floor slab and directly applied insulation (floating screed) or between height compensation (e.g. leveling screed, bonded fill) and overlying insulation (floating screed) or between the insulation and the directly applied screed.

The ALUJET Floorjet Speed should be laid loose, with the fleece side facing downwards, on the level substrate with a membrane overlap of the longitudinal seams of approx. 10 cm. For this purpose, the sheet is laid up to the dotted overlap line. This ensures that the bonding is carried out adhesive strip in adhesive strip. The longitudinal seams are created by removing the release film from the cold self-adhesive edge strips and pressing them down with a pressure roller.

Individual membrane sections (longitudinal seams) can also be laid with a higher overlap. In this case, the longitudinal seams are only bonded by applying a self-adhesive strip to the printed surface of the membrane by pressing it down with a pressure roller.

Butt joints or transverse seams are created by laying the sheets butt to butt. The joint areas must be glued over using the 20 cm wide ALUJET Speed connecting strip (structure: aluminum composite foil with a modified acrylate dispersion), with the joint area in the middle.

Connections and terminations at penetrations (square and round columns) must be created using a 20 cm wide "ALUJET Speed connection strip" with an overlap of approx. 10 cm in each case. An approx. 4 mm thick bead of ALUJET Allfixx must be applied around the column at the base of the penetration to the floor slab in order to ensure tightness at the base of the column. The connection strip is then pressed into the bead.

The strip can also be run up the component to connect to and terminate rising components (if necessary, using ALUJET WAL assembly adhesive as an assembly aid)

The ALUJET Floorjet Speed waterproofing membrane must be brought up to, overlapped or bonded to the wall barrier membrane in such a way that no moisture bridges can occur, especially in the area of plastered surfaces.

If it is not feasible to join, overlap or bond the membrane to the masonry barrier membrane, connections and terminations to rising components (up to the top of the floor structure) can be created using the "ALUJET Speed connection strip" with an overlap of approx. 10 cm in each case. This application should be agreed with the client.

For the implementation of a full-surface radon-tight seal, it must be ensured that the overlapping joints are also covered with the ALUJET SPEED connection strip.

Before further layers are applied, a thorough visual inspection of the ALUJET Floorjet Speed waterproofing membrane must be carried out and any damage must be repaired in accordance with the manufacturer's recommendations. Further layers must be installed immediately after approval.

Sealing under drywall systems
On top of the sealing membrane ALUJET Floorjet SPEED / ALUJET Floorjet SPEED matt, in the area where the drywall system is to be installed, the ALUJET Anschlussstreifen SPEED is to be glued to the membrane over the entire surface in the centre.

Before applying the drywall system, apply a bead of ALUJET Allfixx on the back of the UW-/CW-edge profile around the drill hole (without interruption). Alternatively, the ALUJET Allfixx can also be applied in the edge area of the UW-/CW-edge profile all around without interruption.

Now the UW-/CW-edge profile can be pressed directly onto the ALUJET Anschlussstreifen SPEED and the mechanical fastening can take place.

Sealing of necessary penetrations using e.g. stud setting device or equivalent
The ALUJET connection strip SPEED must be fully bonded to the center of the ALUJET Floorjet SPEED waterproofing membrane in the area where the fastening is to take place. See figure 7.1

The component to be fastened (perforated sheet; drywall profiles, etc.) must be placed directly on the ALUJET Connecting Strip SPEED and fastened using a suitable stud setting tool or equivalent in accordance with the tool manufacturer's instructions

Sealing of necessary penetrations using screws
The cleaned (e.g. vacuumed) drill hole is filled ¾ full with ALUJET Allfixx before inserting the plug.

The intended anchor is carefully inserted into the filled drill hole. The component to be fixed is screwed into place with the plug. The ALUJET Allfixx that emerges from the drill hole serves to securely seal the fastening.

Sealing of pipe penetrations and multi-passage penetrations.
ALUJET offers ALUJET sleeves for the most common dimensions and designs. ALUJET sleeves enable simple and secure sealing of the penetration to the waterproofing membrane (please note the technical data of the ALUJET sleeve in your versions).

Note:
Foreign moisture and smoothness are not easily recognizable due to the lack of contrast on the light surface of the membrane.

Fig. 3.1: Connection ALUJET Floorjet SPEED to round penetrations

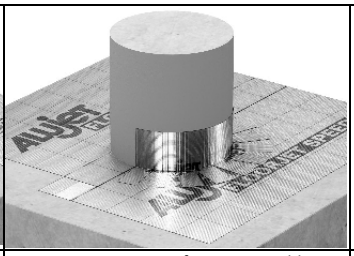

Fig. 3.2: Connection of ALUJET Anschluss-streifen SPEED to round penetrations

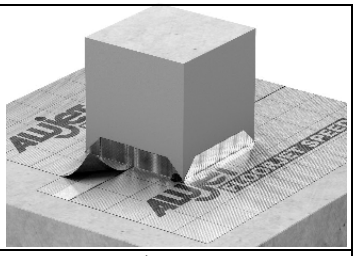

Fig. 4.1: ALUJET Floorjet SPEED connection to square penetrations

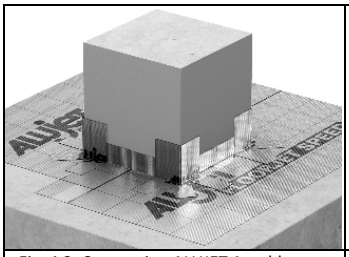

Fig. 4.2: Connection ALUJET Anschluss-streifen SPEED to square penetration

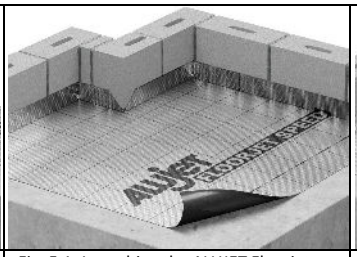

Fig. 5.1: Launching the ALUJET Floorjet SPEED

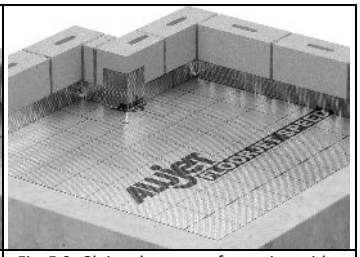

Fig. 5.2: Gluing the corner formation with the ALUJET Anschlussstreifen SPEED

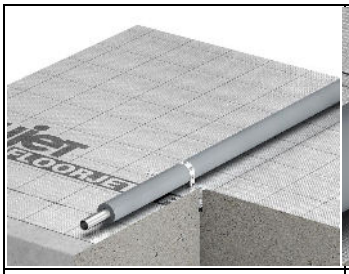

Fig. 6.1: Fastening of pipelines with perforated strips

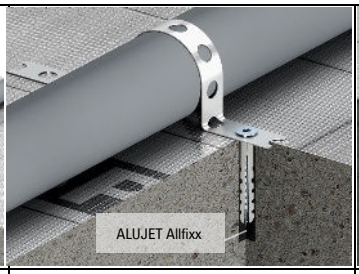

Fig. 6.2: Detail illustration Fastening with ALUJET Allfixx

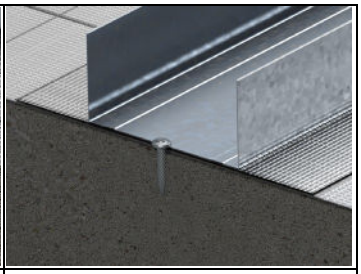

Fig. 7.1: Fastening of partition walls

DGNB

As an independent third party, the Sentinel Haus Institut confirms the conformity of the product with the requirements of the DGNB profile ENV1.2 "Risks for the local environment" (version 2023). No criteria for the avoidance of pollutants are currently defined by the DGNB for this product type, so no evidence needs to be provided. The product is therefore suitable for use in all DGNB new-build projects.

Notes

CE 15 EN 13967 Leistungserklärung Nr. LE10035-000-1550				
Factory production control Certificate No. 1301-CPK-1113				

Our instructions for use, guidelines for use, product and service information and other technical specifications only serve as a guide, they only describe the properties of our products (value specifications/determinations at time of production) and services and do not constitute guaranteed characteristics. Owing to the wide-ranging areas of application of the individual products and the particular conditions (e.g. usage parameters, material properties etc.), it is incumbent on the user to test our products. Our applications engineering consulting - whether verbal, in writing or by way of tests is offered free of charge and is not legally biding.