TECHNICAL DATA SHEET

Bjelin Foam

BJELIN

Bjelin Foam consists of an age-resistant expanded polyethylene foam with closed cells.

The new developed fine cell structure gives excellent compression strength and sound insulation properties.

PRODUCT FEATURES

- Fine cell structure gives outstanding physical properties
- Efficient impact noise deadening with an improvement measurement ΔLw of -19 dB
- Reduction of transmission of footfall and impact noise
- Light, strong and flexible
- Ideally suited for floating parquet, woodura and nadura floors
- High resistance to pressure and very good dimensional stability
- Age resistance > 50 years
- 100 % recyclable
- Odour and dust free

APPLICATION

- Various thicknesses and physical construction characteristics
- Suitable for use in both old and new buildings
- For floors with or without under-floor heating
- Installation faster and easier on a clean and dry floor
- Simply roll out the underlay across the floor and make sure that the joints are butted tightly together, the joints should be sealed with an adhesive tape

PROTECTS THE FLOOR FROM DAMAGE - INCREASES LIVING COMFORT

☑ Reduction of **impact sound**

☑ Suitability for **underfloor heating**

General properties	15m² unit	60m² unit
Thickness (mm)	2	2
Width (mm)	1200	1200
Length (m)	12,5	50
Packaging unit m²	15	60

Properties according to EN 16354	Norm	Value
Thickness	SP 1116	2 mm
Density	ISO 845	30 kg/m³
Impact sound reduction (IS)	SS-EN ISO 140 -8 SS 02 52 67 SS-EN ISO 717-2	19 db
Compressive Strength (CS)	EN 826 + A.3.7	20,4 kPa
Punctual conformability (PC)	EN ISO 868 + A.3.6	1,67 mm
Water vapour diffusion resistance	SS0212582	10,9 m
Thermal resistance (R)	DIN 52612 ISO 2581	0,0492 m² K/W

TECHNICAL DATA SHEET

Bjelin Combi Foam

BJELIN

Bjelin Combi Foam consists of an age-resistant expanded polyethylene foam with closed cells, laminated by heat to a 0,025 mm sheet of polyethylene (HDPE) with a 200 mm overlap. The new developed fine cell structure gives excellent compression strength and sound insulation properties. Combi Foam is used under parquet and laminate flooring in order to reduce impact sound from footstep, to prevent unacceptable influence of moisture, to contribute to the levelling of the substructure. Combi Foam is installed with the polyethylene foil facing down. The relative humidity in the concrete floor must be below 95%.s.

PRODUCT FEATURES

- High water vapor resistance
- Fine cell quality gives outstanding physical properties
- Efficient impact noise deadening – an improvement measurement ΔLw of -20 dB
- Light, strong and flexible
- Age resistance > 50 years
- Ideally suited for floating parquet, woodura and nadura floors
- High resistance to pressure and very good dimensional stability
- 100 % recyclable
- Odour and dust free

APPLICATION

- Suitable when a damp proof layer is needed between parquet or Woodura and Nadura floors and concrete floors with excessive moisture content
- No need for any additional vapor barrier
- To be installed with overlap joints by the use of the protruding PE film at the edge
- The layer of closed cell PE foam in combination with the PE film ensures a very high ratio of water vapour resistance

PROTECTS THE FLOOR FROM DAMAGE - INCREASES LIVING COMFORT

- ☑ Reduction against **rising moisture**
- ☑ Reduction of **walking sound**
- ☑ Reduction of **impact sound**
- ☑ Suitability for **underfloor heating**

General properties	15m² unit	50m² unit
Thickness (mm)	2	2
Width/foam (mm)	1000	1000
Width/PE-film (mm)	1200	1200
Length (m)	15	50
Packaging unit m²	15	50

Properties according to EN 16354	Norm	Value
Thickness	SP 1116	2 mm
Density	ISO 845	30 kg/m³
Impact sound reduction (IS)	SS-EN ISO 140 -8 SS 02 52 67 SS-EN ISO 717-2	20 db
Compressive Strength (CS)	EN 826 + A.3.7	> 20 kPa
Punctual conformability (PC)	EN ISO 868 + A.3.6	1,5 mm
Water vapour diffusion resistance (SD)	SS0212582	> 42,5 m
Thermal resistance (R)	DIN 52612 ISO 2581	0,04 m² K/W

TECHNICAL DATA SHEET

Bjelin Heavy duty - Combi Foam

BJELIN

Bjelin Heavy duty - Combi Foam is a closed-cell foam made of high-performance polyolefin laminated with a polyolefin foil as water vapour protection layer. It is produced without CFCs and HCFCs and contains neither plasticizers nor heavy metals or other dangerous substances.

PRODUCT FEATURES

- High water vapor resistance
- Fine cell quality gives outstanding physical properties
- Efficient impact noise deadening – an improvement measurement ΔLw of -20 dB
- Light, strong and flexible
- Age resistance > 50 years
- Ideally suited for floating parquet, woodura and nadura floors
- High resistance to pressure and very good dimensional stability
- 100 % recyclable
- Odour and dust free

APPLICATION

- Suitable when a damp proof layer is needed between parquet or Woodura and Nadura floors and concrete floors with excessive moisture content
- No need for any additional vapor barrier
- To be installed with overlap joints by the use of the protruding PE film at the edge
- The layer of closed cell PE foam in combination with the PE film ensures a very high ratio of water vapour resistance

PROTECTS THE FLOOR FROM DAMAGE - INCREASES LIVING COMFORT

- ☑ Reduction against **rising moisture**
- ☑ Reduction of **walking sound**
- ☑ Reduction of **impact sound**
- ☑ Suitability for **underfloor heating**

General properties	15m² unit
Thickness (mm)	2
Width (mm)	1000
Length (m)	15
Packaging unit m²	15

Properties	Norm	Value
Thickness of the underlay measured at 100 Pa pre-load	EN 823	2.0 (±10%) mm
Reflected walking sound	intern, SAAG WS 021029-5 F1	30 %
Impact sound reduction (IS)	EN ISO 10140-3 / EN ISO 717-2	20 db
Compressive Strength (CS)	EN 826	≥ 70 kPa
Compressive creep under long term static load (CC)	EN 1606	≥ 20 kPa
Dynamic load (DL) - alternating load cycles from σmin =0.1 to σmax - number of load cycles - max. deformation / thickness loss Δd	EN 13793	25 kPa ≥ 1'000'000 no.cycl. ≤ 0.5
Punctual conformability	EN 16354:2018	1,5 mm
Resistance to impact by large diameter ball	EN 13329 Annex F and EN 438 Chapter 21	1,2 m
Thermal resistance (R) [2)]	EN 12667 / EN 12664	0,046 m² K/W
Water vapour diffusion resistance (SD) [3)]	EN 12086	200 m
Water absorption by foam	EN 12087	< 1 Vol%
Reaction to fire	Test acc. EN ISO 11925-2 classification acc. EN 13501-1, Table 2	Efl class

n.p.d. = no performance determined

1) Tests done in accordance to the mentioned standards and the modifications listed in document EN 16354:2018. Impact and walking sound performance values are determined in standardized test environment. In the real application situation, these values may differ due to the influences of structural designs related to construction.

2) According to the recommendations of "Bundesverband Flächenheizungen und Flächenkühlungen e.V. (BVF)" and EN 1264-3, this underlay is applicable for underfloor heating systems. The total R-value of the complete floor construction of max. 0,15 m² K/W, has to be considered.

3) The mentioned value for water vapour diffusion (SD value) is valid for the underlay only and only then in case the joints of the separately installed underlay rolls are perfectly connected by means of a suitable adhesive tape.

Storage conditions: Do not store outdoors, protect from exposure of sunlight, prevent electrostatic discharges, keep away from ignition source, do not smoke!

The information contained herein is correct to the best of our knowledge. All properties are based on individual values and should be considered as guideline, not as specification.

Recommendations as to methods of application and use of Sekisui Alveo foams are based on our experience and are given in good faith. We have no control over the application of

Sekisui Alveo foams and no legal responsibility is accepted for such recommendations.

Qualification, verification and validation of the end product or combination with other products are the responsibility of the customers.

Sekisui Alveo AG assumes no liability for this information. This information implies no warranty or freedom from patent protection.

EPLF

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