



# windmüller

## Technical Data Sheet

### Birgisson - "Premium Sound 3.0 Alu"

<b>Product description</b>	The patented "Premium Sound 3.0 Alu" acoustic system was designed specifically for the floating installation under laminate and parquet floors. As a high-class system for reducing impact sound and walking noise, "Premium Sound 3.0 Alu" consists of up to 90% naturally occurring raw materials and is supplied in rolls for convenience.
<b>Product composition</b>	Permanently elastic underlay material made of mineral fillers and polyurethane binders. "Premium Sound 3.0 Alu" consists of a metallized PET-foil (as vapor barrier; with Birgisson inkjet logo print), a heavy-duty polyurethane layer as well as a high-class fleece side (in Black).
<b>Taking responsibility</b>	"Premium Sound 3.0 Alu" is FREE from plasticizers, asbestos, formaldehyde, halogens and heavy metals. It complies with French afset A+ guidelines on VOC's, the Blue Angel eco label and the German AGBB scheme.
<b>Ecological aspects</b>	The product is solvent-free and does not contain any other ozone-depleting substances. The renewable resources used in the product do not compete with food crops (during growth).
<b>Health and safety</b>	The product does not require any special health and safety measures to be taken. When laying flooring, it is <u>essential</u> to adhere to the manufacturer's advice on protection.
<b>Processing</b>	The approval of the flooring and adhesive manufacturers <u>must</u> be obtained prior to install the product in any way. For further information about processing, please refer to the relevant <u>manufacturer guidelines on installation</u> .



Protected by an utility model and patented.

## Technical specifications

<b>d</b>	Thickness 3.00 mm (± 0.15 mm)	DIN EN 16354:2019-01
<b>AW</b>	Product area weight 2.65 kg/m <sup>2</sup> (± 0.15 kg/m <sup>2</sup> )	
<b>l</b>	Length 10,000 mm (± 15.00 mm)	DIN EN 16354:2019-01
<b>w</b>	Width 1,000 mm (± 1.00 mm)	DIN EN 16354:2019-01
<b>RWS</b>	Reflected walking sound ~ 29 - 30 % (± 2 %)	Windmüller factory rating, int. (form. EPLF WD 021029-5) Measured under: norm laminate EPLF, 7mm
<b>IS</b>	Impact sound ~ 18 - 19 dB (± 2 dB)	DIN EN 16251-1 Measured under: norm laminate EPLF, 7mm
<b>R</b>	Thermal resistance 0.01 m <sup>2</sup> K/W	DIN EN 16354:2019-01 (suit. for water underfloor heatings) The max. R in the overall system can be 0,15 m <sup>2</sup> K/W.
<b>S<sub>D</sub></b>	Water vapor diffusion [WVTV] > 75 m (~ 100 m)	DIN EN 16354:2019-01
<b>RI</b>	Residual indentation n.a.	DIN EN ISO 24343-1
<b>CS</b>	Compressive strength up to 15 t/m <sup>2</sup> (~ 150 kPa)	acc. to DIN EN 826 (250 Pa, 0,5 mm)
<b>CC</b>	Compressive creep ~ 37 kPa	DIN EN 16354:2019-01
<b>DL</b>	Dynamic load > 2,500,000 cycles	DIN EN 16354:2019-01
<b>RLB</b>	Resistance to large ball ~ 800 mm	DIN EN 16354:2019-01 Measured under: norm laminate EPLF, 7mm
<b>PC</b>	Punctual conformability ~ 1.39 mm	DIN EN 16354:2019-01
<b>RTF</b>	Reaction to fire Bfl-s1	DIN EN 13501-1 ( <u>excluding covering</u> )

<b>Installation reference</b>	<p>Easy cutting using an utility or craft knife. Lay the fleece side down as well as the alu-foil side up towards the surface covering. The final product installation must be checked and approved for any flooring system individually. The installation guidelines must be declared by the respective distributor.</p> <p>The use of low-emission building products is recommended (products bearing the Blue Angel eco label, for example). This product can be recycled in accordance with EAK-no. 170604 and may be disposed of as household waste.</p>
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The information above is based on current knowledge and the latest technical developments. We make no claim as to the completeness of information. Last updated 05/2020 (2020\_05\_01000 - TD - WM OEM) - GK/GH/Sales. All previous information hereby superseded.