

BYSSUS PANELS DATA SHEET



Intro

Mussel beards or Byssus are natural protein fibres secreted by bivalve mollusks, to anchor themselves to surfaces in the ocean. In edible mussels, the byssus is the inedible component typically removed during cleaning, when machines cut off the fibres, which are collected in containers and disposed of in landfills or used as biomass.

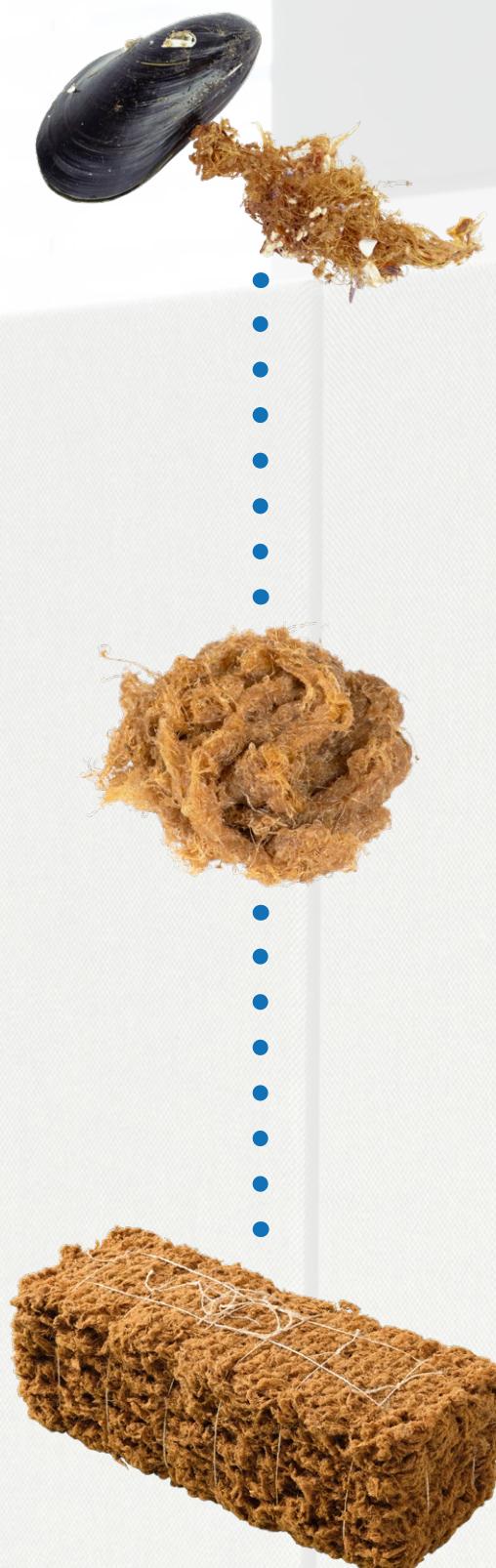
Byssus History

Byssus has a cultural heritage spanning over 2,200 years. In the Mediterranean, it was historically revered as Sea Silk, an artisan textile spun from the byssus of the Noble Pen Shell and treasured for its rarity and craftsmanship. As the Sea Silk industry overseas has all but disappeared, Seastex has partnered with shellfish producers to reimagine this material for the 21st century, transforming the short byssus fibres of today's Blue Mussels.

This fusion of ancient cultural arts and crafts with 21st-century engineering enriches the user experience. People engage with a material that is not only functional but meaningful, familiar yet new, rooted in heritage yet aligned with future sustainability values. Beyond acoustics and visual comfort, Seastex offer users a sense of narrative belonging.

Our Partners

37 Farms





Wall Panels & Artworks

Our natural byssus panels are available in all shapes and sizes. The minimum dimensions are 30 x 30 cm, and the maximum are 244 x 122 cm.

Seastex reconnects users with coastal ecosystems and the Blue Economy by revealing the story of mussel farming and byssus valorisation.

Natural byssus panels foreground this relationship: seeing the fibres encourages curiosity about their origin and the communities that harvest mussels. Besides an artistic aspect, byssus provides excellent sound-absorbing capabilities, effectively reducing noise pollution and enhancing acoustic comfort.

Fabricated in Glasgow, Scotland, our acoustic products represent a harmonious blend of traditional craftsmanship, sustainability and in-house developed, all natural cleaning methods and technology.

We are proud to be pioneers in the production of byssus-based products, delivering a solution that meets high acoustic standards while also responding to the growing demand for circular alternatives in the creative industries.

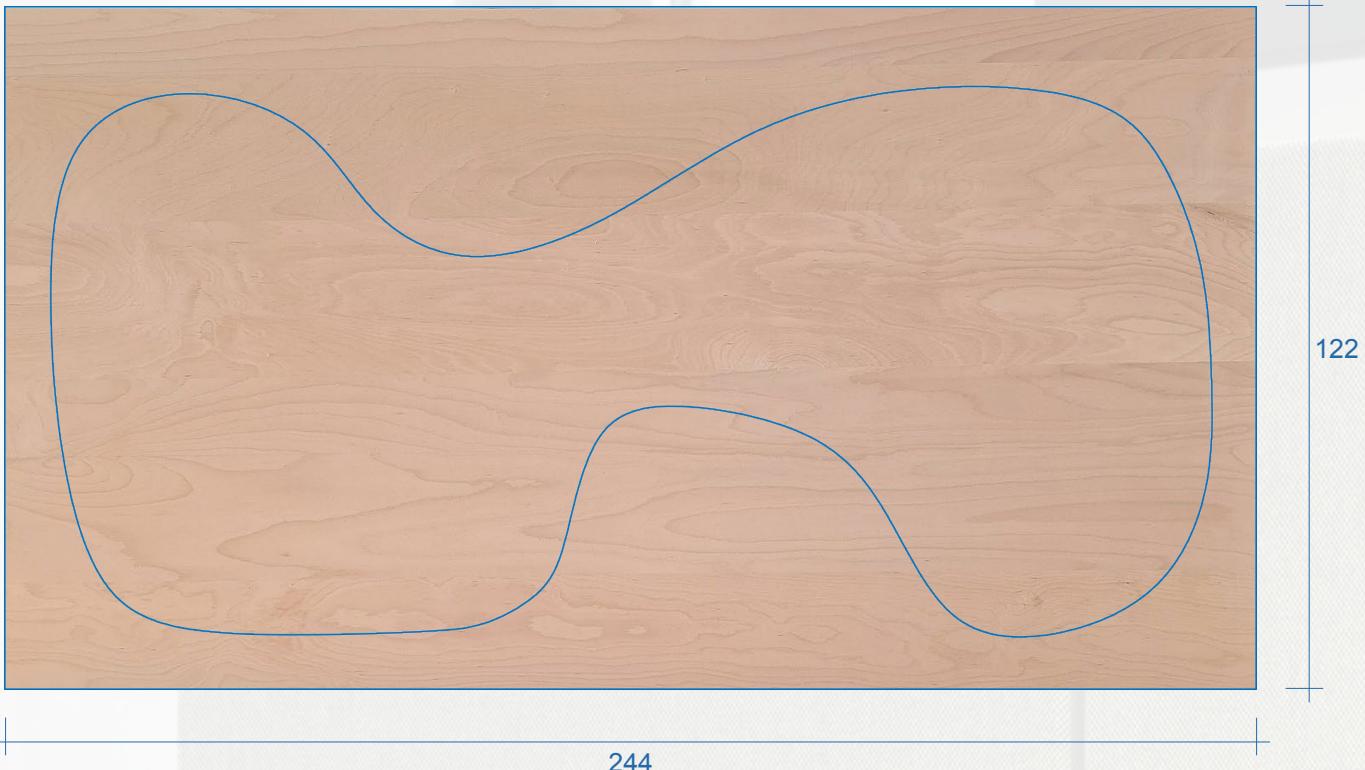


Dimension & Shapes

Any shape that can be cut from a sheet of plywood using a jigsaw can be enhanced with byssus. Our method applies byssus directly to the cut plywood forms without the use of binders or resins, enabling the creation of eco-friendly, bespoke acoustic panels and artworks.

Length (cm)	Height (cm)	Depth (cm)	Surface (m ²)
30	30	6	0,09
-	-		-
244	122		2,97

Example



Physical appearance & performance

Product type	Natural Byssus Panel
Material	Byssus + Plywood Backing
Carbon Footprint	- 5.5kg CO ₂ / kg Calculated in-house, Cradle to Gate, with an LCA and EPD planned in 2027.
Thickness:	6 cm A sandwich construction of a plywood base and a standard byssus covering.
Fire Rating:	B1-s2, d0 * Naturally flame retardant.
VOC emissions	Byssus is a natural material and emits no VOC's Our treatment process is done with eco friendly ingredients.
Odour	Neutral, Nearly Odourless. Our unique treatment neutralises the smell of byssus.

* According to EN ISO 11925-2:2020, with EN 13501-1:2018 available in March 2026.

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