

SWEDBOARD[®] FIBRE

PRODUCT GUIDE

THE HIGH-QUALITY PAPER BOARD DESIGNED TO BE SUSTAINABLY STRONG.

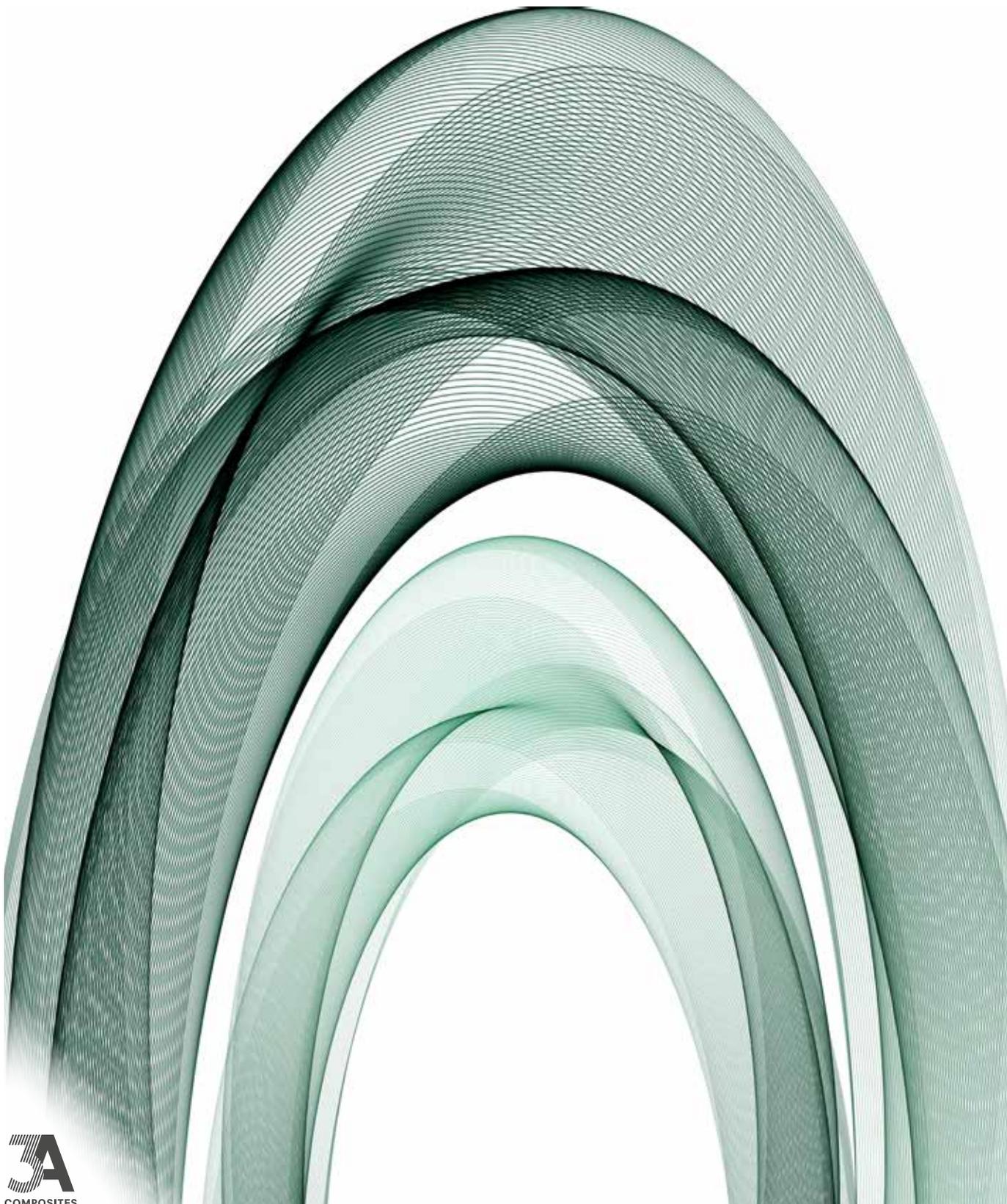




TABLE OF CONTENTS

SWEDBOARD® Fibre

■ At a glance	06
■ Technical Data Sheet	07
■ Sustainability	08 – 11

PRODUCT RANGE

12 – 13

APPLICATIONS

14 – 15



SWEDBOARD® FIBRE

SWEDBOARD® Fibre are innovative paper boards, available in 10 mm and 16 mm thickness and in a width of up to 2400 mm. The paper boards are made of FSC® certified paper (FSC® C147499) and are completely recyclable.

SWEDBOARD® Fibre paper boards' outstanding properties are due to their unique structure. SWEDBOARD® Fibre boards are an ideal printing substrate and, in view of their excellent stiffness and flatness, are particularly suitable for 3D constructions in the field of displays (POS/POP), shop design, shop window decoration, furniture and exhibition design. The core, manufactured in a new way, enables the production of dust-free boards – no dust is thus generated during processing (e.g. printing or cutting) or on-site assembly.

Sustainable involvement and environmental protection have always been amongst the essential corporate objectives at 3A Composites. The minimisation of risks for man and environment as well as the reduction of environmental pollution through careful and efficient utilisation of resources is part of the corporate philosophy.

The production site in Katrineholm, Sweden, has gone through all the stages for FSC® certification (DNV-COC-001807). The production process, audited by FSC®, ensures that only FSC® certified paper is used in the production of our SWEDBOARD® Fibre boards and that non-certified, i.e. paper which has not been monitored, is not included. The FSC® label stands for a continuous and credible tracking process. It is a clear indicator that the paper comes from responsibly managed forests or from other controlled sources. The forest management is in compliance with social, economic and environmental requirements.

The production site is also rated by EcoVadis. EcoVadis is a renowned, independent platform which assesses companies worldwide in the areas of environmental protection, labour and human rights, ethics and sustainable procurement.

Ongoing efforts to reduce CO₂ emissions by scaling back energy and water consumption, increasing productivity and avoiding waste are being made at the SWEDBOARD® Fibre production site. There is already 100% fossil-free electricity used for the production of the material. The modern and energy-efficient production ensures a board production with almost no raw material waste.

SWEDBOARD® Fibre paper boards are subject to the highest quality standards and stringent monitoring during production. Our top priority is to ensure that SWEDBOARD® Fibre paper boards do not contain any hazardous substances. All SWEDBOARD® Fibre sheets also comply with the requirements of the currently valid version of the REACH & RoHS directives.

Read more about our commitment to sustainability starting on page 8.

SWEDBOARD® FIBRE – THE HIGH-QUALITY PAPER BOARD DESIGNED TO BE SUSTAINABLY STRONG.

SWEDBOARD® FIBRE

THE HIGH-QUALITY PAPER BOARD DESIGNED TO BE SUSTAINABLY STRONG.

CHARACTERISTICS

- Innovative paperboards
- Up to 2400 mm width
- 10 mm and 16 mm thickness
- Dust-free
- No cracking when bending (SWEDBOARD® Fibre Premium)
- FSC® certified (FSC® C147499)
- Fully recyclable
- Best rigid paper board for 3D constructions
- Wide range of different accessories
- Optimal for direct digital printing
- SWEDBOARD® Fibre FR fire behavior according to EN 13501-1: B-s1, d0

APPLICATIONS

- Architecture & construction
- Urban street furniture
- Shopfitting | Trade show stands | Stage design | Studio and office furnishings and fittings
- Interior design
- Advertising structures | hoardings
- DIY

PROCESSING

- Printing - direct digital printing
- Printing – screen printing
- Lacquering | Painting | Spraying
- Lamination
- Cutting – Cutter
- Cutting – CNC
- Cutting – waterjet
- Folding (V-groove) | Cold bending
- Gluing
- Screwing
- Drilling



PRODUCTS	SWEDBOARD® Fibre Premium	SWEDBOARD® Fibre Premium white	SWEDBOARD® Fibre Premium nature	SWEDBOARD® Fibre Brown nature	SWEDBOARD® Fibre FR
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DIMENSIONS AND WEIGHT

Thickness	mm	10	16	16	10	16	10	16	16
Weight per unit area	kg/m ²	1.6	2.2	2.3	1.7	2.2	1.5	2.0	2.3
Sheet sizes	mm	as per delivery programme							
Sheet width tolerance	mm	-0/+5							
Sheet length tolerance	mm	-0/+5							
Sheet thickness tolerance	mm	± 0.4							

CORE

Paper cell core. FSC®-certified paper (FSC® C147499)		brown	white			brown			
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SURFACE

Liner. FSC®-certified (FSC® C147499)		brilliant white premium carton covered with a PE moisture barrier	brilliant white premium carton covered with a PE moisture barrier	brilliant white premium carton	premium kraftliner, brown	white woodfree coated paper, aluminium foil and kraftliner	
Whiteness	ISO 11475	%	124	124	124	–	125
ISO Whiteness	ISO 2470	%	90	90	90	–	–

FIRE CERTIFICATION

Classification (Euroclass)	EN 13501-1:2018	–	–	–	–	B-s1,d0
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Note: These technical data of our products are typical ones for SWEDBOARD®. The actually measured values are subject to production variations.

For more details on the processing of SWEDBOARD® Fibre, please contact our technical team.



SUSTAINABILITY

MISSION: TOGETHER. RESPONSIBLE.

We have summarised our commitment to sustainability in our corporate **MISSION: TOGETHER. RESPONSIBLE.** As we also apply and comply with this mission in regard to our products, we have created a classification system for them. The five categories in our **FIVE-DOT-MISSION** system indicate factors with a significant impact on sustainability. Our intention is to offer our partners guidance with their purchasing decision-making and to provide a transparent system. A system which focuses on the use of materials, the carbon footprint, the product life cycle and recycling, a topic of particular relevance for our products. Our FIVE-DOT-MISSION makes an assessment of a product on the basis of the five categories and awards points per category, the product is then assigned to one of the five coloured DOTs. By this means we achieve a transparent, quick valuation logic which we can also use to gauge product innovation and improvement at 3A Composites.

THE FIVE-DOT CATEGORIES ARE:

1. BIOBASED CONTENT
Depending on the product, different raw materials are used to manufacture our panels. In this case, we look at the percentage of renewable raw materials used in our products. Our aim is to increase the percentage whenever possible and appropriate.

2. RECYCLED CONTENT
The industry selects raw materials obtained by means of recycling processes which can be used in the manufacture of new products. At the same time, it is essential to ensure requirements such as fire ratings, processing, functionality and appearance are retained. We work continuously to extend our network of recycling companies and to increase the material recycling rates. This category is where we gauge the proportion of high quality recycled raw material in our products' total material input.

3. CO₂ FOOTPRINT
In this category we monitor the kg CO₂ eq/kg per product which is released into the environment during product manufacture (cradle-to-gate) according to EN 15804+A2 (A1-A3). Using the Helix calculation program from Ecochain Technologies B.V as well as the latest LCA datasets from Ecoinvent or similar databases, we measure the carbon footprint of our products in accordance with ISO 14040 und 14044 for the Life Cycle Analysis (LCA). Information regarding the carbon footprint of a specific product respectively a Life Cycle Assessment (LCA) document is available on request.

4. PRODUCT LIFE CYCLE
The plastic sheets and composite panels we produce are used by our customers for a longer period of time. In contrast to products used in the short term, these longer-term alternatives make an active contribution to saving resources. In this category we show our panels' average service life. Life cycles can range from approximately 1 year to more than 30 years depending on the different materials.

5. RECYCLABILITY
One of the most important aspects of sustainability is contributing to environmental protection by cutting down use of valuable raw materials, conserving resources and avoiding waste. Unlike the second category "recycled content", in this assessment category, we show options for recycling the panels after they have been in use. There are already, for instance, established recycling loops for various paper types and metals. At some production sites, the material can already be returned, so that material for new products can be created. As a company, we came to the conclusion that thermal recycling as a means of energy capture does not seem sustainable enough, so it is not included in our FIVE-DOT classification. Instead, we are actively working with partner companies to establish sustainable and future-oriented recycling solutions for closed-loop recycling management.

As many as 3 points can be achieved in each of the categories presented, totalling a maximum of 15 points. According to the total number of points achieved (1-15), the FIVE-DOT classification is conducted using the following colour gradation.



Transparency is important to us! We will review the product assessment annually to see in which areas the product can be improved. We have set ourselves the goal of achieving 80% of our sales with products which achieve a rating of ≥ 7 points in the FIVE-DOT classification by 2028.

Join us on our sustainable mission!

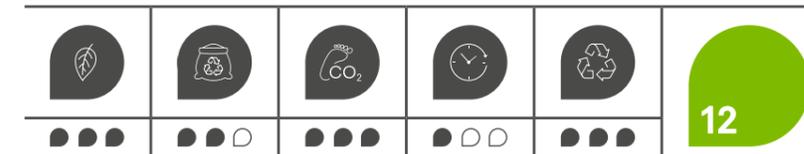


SUSTAINABILITY

SWEDBOARD® FIBRE FIVE-DOT-MISSION

SWEDBOARD® Fibre the innovative paper boards made of FSC®-certified paper (FSC® C147499), have been assessed in line with the criteria described above. SWEDBOARD® Fibre Premium, SWEDBOARD® Fibre Premium white, SWEDBOARD® Fibre Premium nature, SWEDBOARD® Fibre Brown nature and SWEDBOARD® Fibre FR currently achieve a FIVE-DOT classification with a total of 12 points.

SWEDBOARD® Fibre



BIOBASED CONTENT
 100% of the paper used in our eco-friendly SWEDBOARD® Fibre Premium, SWEDBOARD® Fibre Premium nature, SWEDBOARD® Fibre Premium white and SWEDBOARD® Fibre Brown nature boards is FSC®-certified and 100 % renewable. Also SWEDBOARD® Fibre FR boards are almost entirely made up of renewable raw materials and are recyclable as paper. The specially developed cover sheets, which comprise an ultra thin layer of aluminium, enable the sustainable SWEDBOARD® boards to be used for applications with more stringent fire safety requirements.

FSC®-certification ensures that the wood required for paper production comes from sustainable, environmentally sound and responsible forest management.

All raw materials used in our SWEDBOARD® Fibre paper boards also comply with the requirements in the current version of the European Union's Chemicals Regulation (REACH). In particular, SWEDBOARD® Fibre paper boards are free of any of the substances listed in the current version of the ECHA Candidate List of Substances of Very High Concern (SVHC). The paper boards do not contain any toxic substances or heavy metals that may harm the environment or create health risks.

RECYCLED CONTENT
 SWEDBOARD® Fibre boards have a core consisting of a high proportion of recycled paper; the cover sheets are made of new paper fibre.

CO₂ FOOTPRINT
 SWEDBOARD® Fibre uses paper from renewable, FSC®-certified sources, keeping the carbon footprint very small.

PRODUCT LIFE CYCLE
 SWEDBOARD® Fibre Premium, SWEDBOARD® Fibre Premium nature and SWEDBOARD® Fibre Brown nature boards are a perfect solution for medium-term, seasonal promotions and signage as well as for indoor POS/POP displays. SWEDBOARD® Fibre FR is also ideal for permanent shopfitting applications such as suspended ceilings with more stringent fire safety requirements.

RECYCLABILITY
 The SWEDBOARD® Fibre paper boards are fully recyclable, i.e. the paper is returned to the recycling loop and used to produce new material. An established, closed-loop recycling system already exists for this purpose. The sheets can be easily and inexpensively disposed of as waste paper.





SWEDBOARD® FIBRE

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SWEDBOARD® Fibre is a paper-based rigid board that offers a fully recyclable alternative for demanding POS/POP and in-store signage applications. The engineered dust-free core gives the material excellent strength and stability yet with light weight. Widths up to 2.4 metres enables increased productivity, reduced waste and unprecedented design flexibility. All materials are FSC® certified (FSC® C147499).

SWEDBOARD® Fibre Premium has a unique paper liner with a thin moisture barrier that helps to keep the material flat even in extremely dry or humid conditions. Furthermore the liner does not crack in any direction when folded and is optimal for direct digital printing.

SWEDBOARD® Fibre Premium white features a white core for seamless, edge-to-edge aesthetics and stays perfectly flat even in extreme conditions thanks to its unique paper top layer with a thin moisture barrier. It bends crack-free in every direction and, with its white core, delivers pristine edges that elevate the look of direct digital printing.

SWEDBOARD® Fibre Premium nature has a fully paper based liner developed for water-based inks whereas SWEDBOARD® Fibre Brown nature has a brown kraftliner surface for applications where a natural appearance is requested.

SWEDBOARD® Fibre FR is a paper-based rigid board that offers a versatile alternative for demanding POP and exhibition applications where a fire classification is requested; the Euroclass B level is the highest possible for combustible materials. SWEDBOARD® Fibre FR is available in 16 mm thickness and in a width of 1600 mm.

CHARACTERISTICS

- Innovative paper boards
- 1220 mm respectively up to 2400 mm width
- 10 mm / 16 mm thickness
- Dust-free
- No cracking when bending (SWEDBOARD® Fibre Premium)
- FSC®-certified (FSC® C147499)
- Fully recyclable
- Best rigid paper board for 3D constructions
- Wide range of different accessories
- Optimal for direct digital printing
- SWEDBOARD® Fibre FR fire behavior according to EN 13501-1: B-s1, d0



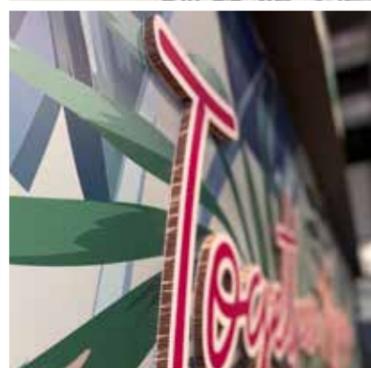
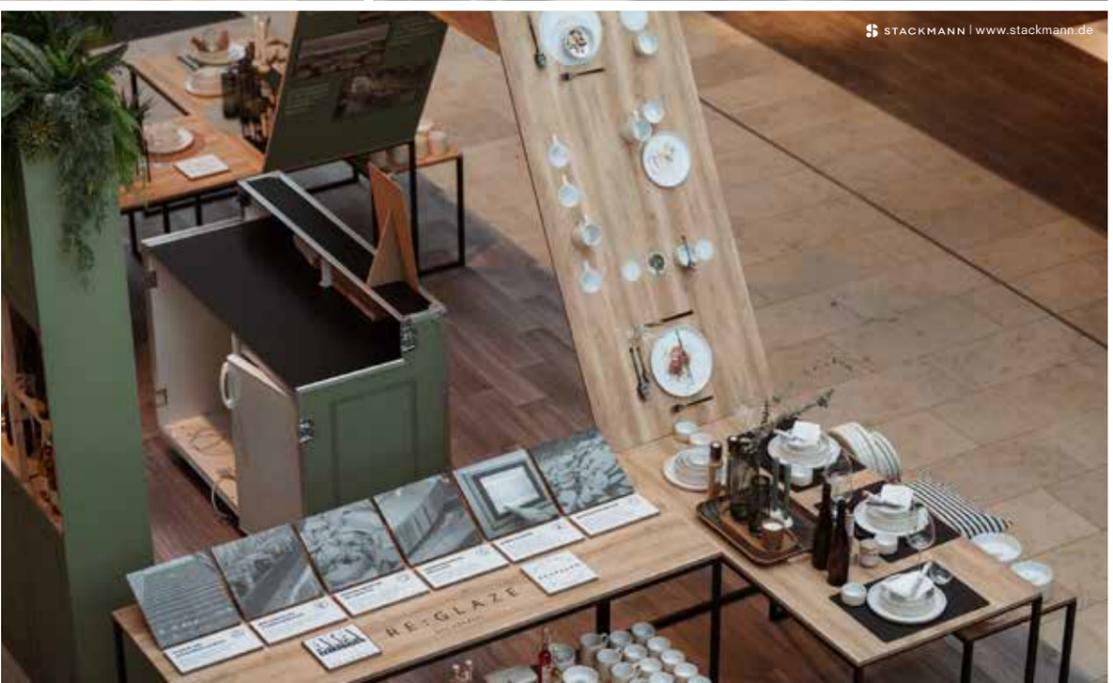
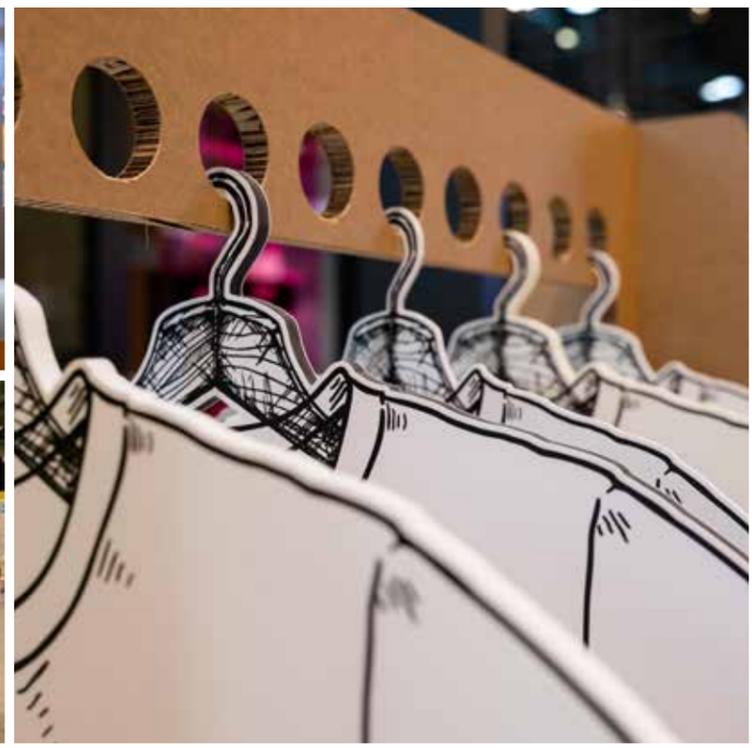
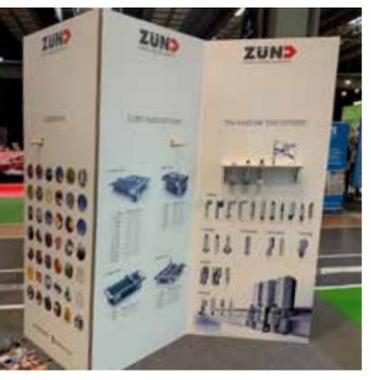
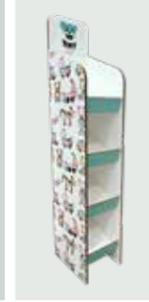
SWEDBOARD® Fibre Premium
SWEDBOARD® Fibre Premium nature
SWEDBOARD® Fibre FR



SWEDBOARD® Fibre Premium white



SWEDBOARD® Fibre Brown nature





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