SWEDBOARD® FIBRE

PRODUCT GUIDE

THE PREMIUM ENVIRONMENTALLY FRIENDLY DISPLAY MATERIAL.



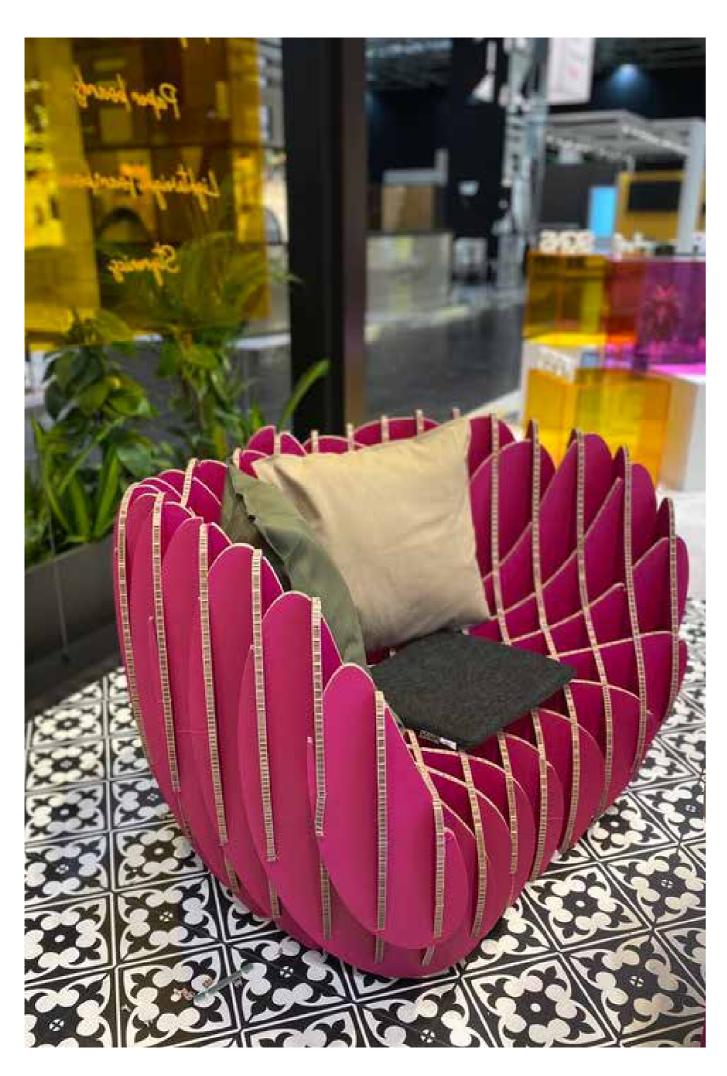


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SWEDBOARD® FIBRE

SWEDBOARD® Fibre are innovative and environmentally friendly 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 100% recyclable.

SWEDBOARD® Fibre paper boards' outstanding properties are due to their unique structure and, as a paper product, the boards are 100% eco-friendly. 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.

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

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

SWEDBOARD® FIBRE – THE PREMIUM ENVIRONMENTALLY FRIENDLY DISPLAY MATERIAL.

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SWEDBOARD®

Fibre Brown nature

SWEDBOARD®

Fibre FR

SWEDBOARD® FIBRE

THE PREMIUM ENVIRONMENTALLY FRIENDLY DISPLAY MATERIAL.

CHARACTERISTICS

- Innovative and environmentally friendly paper boards
- Up to 2400 mm width
- 10 mm and 16 mm thickness
- Dust free
- No cracking when bending (SWEDBOARD® Fibre Premium)
- FSC® certified (FSC® C147499)
- 100% 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

APPLICATION

- Displays (POS/POP)
- Signage | Lettering
- Shop design | Shop window decoration
- Interior design | Furniture
- Partitions | Cladding
- Exhibition design and construction
- Model making
- Short term promotional campaigns

PROCESSING

- Digital printing | Screen printing
- Laminating
- Painting | Spray painting | Lacquering
- Cutting | Die cutting | Plotting
- Gluing
- Drilling
- Screwing
- Folding (V-groove)







DIMENSIONS AND WEIGHT										
Thickness		mm	10	16	10	16	10	16	16	
Weight per unit area kg/m²		1.8	2.4	1.8	2.4	1.6	2.2	2.5		
Sheet sizes		mm	as per delivery programme							
Sheet width tolera	ance	mm	-0/+5							
Sheet length toler	rance	mm	-0/+5							
Sheet thickness tolerance mm		± 0.4								
CORE										
Paper cell core, FSC® certified pa	brown									
SURFACE										
Liner, FSC® certified (FSC® C147499)			premiun covered PE mo	t white n carton d with a nisture rier	ton brilliant white		premium kraftliner, brown		white woodfree coated paper, aluminium foil and kraftliner	
Whiteness	ISO 11475	%	12	24	12	24			125	
ISO Whiteness	ISO 2470	%	9	0	9	0			_	

SWEDBOARD®

Fibre Premium nature

SWEDBOARD®

Fibre Premium

PRODUCTS



These technical data of our products are typical ones for SWEDBOARD®. The actually measured values are subject to production variations.

EN 13501-1:2018

FIRE CERTIFICATION

Classification

(Euroclass)

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

B-s1,d0



SUSTAINABILITY

MISSION: TOGETHER. RESPONSIBLE.

Sustainability is at the core of everything we do. Our corporate ecological commitment is summed up by the MISSION: TOGETHER. RESPONSIBLE. As we also apply and comply with this mission in regard to our products, we have created a classification system. The five different categories in our FIVE-DOT-MISSION system indicate the factors with the greatest 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 CO₂ content, the product life cycle and, of course, recycling, a topic of particular relevance for our products. Our FIVE-DOT-MISSION makes an assessment of a product on the basis of 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 recycled raw materials for use in the manufacture of new products which also fulfil requirements such as fire ratings, processing prerequisites

and customer expectations in terms of functionality and appearance. This category is where we gauge the proportion of high quality recycled raw material in our products' total material input.



3. FOSSIL CO, BOUND IN THE MATERIAL

This category shows the weight of fossil ${\rm CO_2}$ embedded in our panels. Differences here are principally due to the raw material type and origin, the density, the composi-

tion and the proportion of recycled content.



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. Material properties result in disparities, so life cycles range from <1 year to even >30 years.



5. RECYCLABILITY

One of the most important aspects of sustainability is contributing to environmental protection by saving valuable raw materials 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 paper and metals. At some production sites, the material can already be returned, so that material for new panels can be created from it. As a company, we came to the conclusion that thermal recycling 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 a closed-loop, sustainable and future-oriented recycling economy.

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.









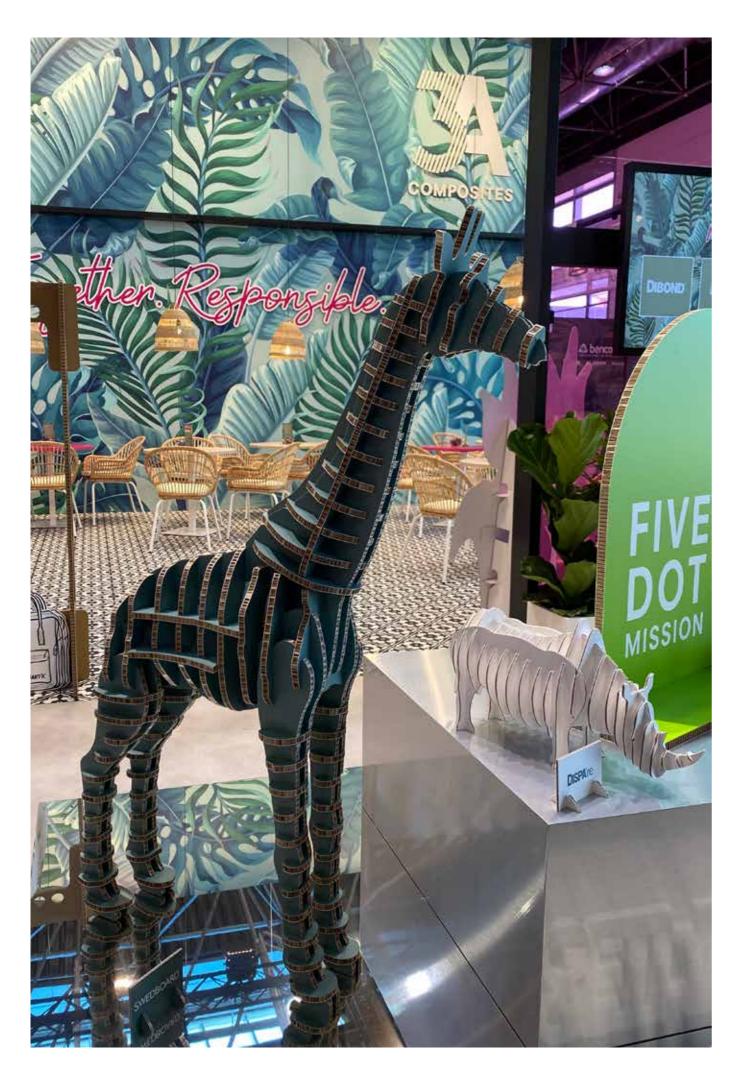


Transparency is important to us! We will review the product assessment annually to see in which areas the product can be improved. We have set ourselves the goal of achieving the majority of our sales with products which achieve a rating of ≥ 7 points in the FIVE-DOT classification by 2030.

Join us on our sustainable mission!



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SUSTAINABILITY

SWEDBOARD® FIBRE FIVE-DOT-MISSION

SWEDBOARD® Fibre the innovative and environmentally friendly paper boards made of FSC® certified paper (FSC® C147499), have been assessed in line with the criteria described above. The product currently achieves a FIVE-DOT classification with a total of 12 points.

SWEDBOARD® Fibre



BIOBASED CONTENT

Our SWEDBOARD® Fibre Premium nature and SWEDBOARD® Fibre Brown nature boards are made from 100% FSC® certified paper which means they are made from 100% renewable raw materials. SWEDBOARD® Fibre Premium and SWEDBOARD® Fibre FR boards are almost entirely made up of renewable raw materials. While 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, the specially developed cover sheets of SWEDBOARD® Fibre FR comprises a very thin layer of aluminium to ensure that the sustainable SWEDBOARD® boards can also 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 or from other controlled sources.

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 already have a core consisting of a high proportion of recycled paper; the cover sheets are made of new paper fibre.

FOSSIL CO, BOUND IN THE MATERIAL

The use of paper as the sole component of the SWEDBOARD® Fibre Premium nature and SWEDBOARD® Fibre Brown nature boards means that no fossil CO₂ is bound in the material. The products consist solely of renewable raw materials. SWEDBOARD® Fibre Premium and SWEDBOARD® Fibre FR boards consist mainly of paper which means they are also made almost entirely from renewable raw materials.

PRODUCT LIFE CYCLE

SWEDBOARD® Fibre Premium, SWEDBOARD® Fibre Premium nature and SWEDBOARD® Fibre Brown nature boards are a sustainable solution for medium-term, seasonal promotions and signage as well as for indoor POS/POP displays. SWEDBOARD® Fibre FR is also ideal for applications with more stringent fire safety requirements.

RECYCLABILITY

The SWEDBOARD® Fibre paper boards are fully recyclable and can be returned to the recycling loop and used to produce new material.







SWEDBOARD® FIBRE

THE PREMIUM ENVIRONMENTALLY FRIENDLY DISPLAY MATERIAL.

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 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 1570 mm.

CHARACTERISTICS

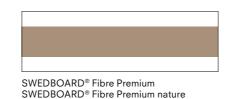
- Innovative and environmentally friendly paper boards
- 1570 mm respectively up to 2400 mm width
- 10 mm / 16 mm thickness
- Dust free
- No cracking when bending (SWEDBOARD® Fibre Premium)
- FSC® certified (FSC® C147499)
- 100% recyclable
- Best rigid paper board for 3D constructions
- Wide range of different accessories
- Optimal for direct digital printing
- SWEDBOARD® Fibre FR fire behavior according to EN 13501-1: B-s1, d0

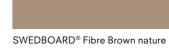
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- Digital printing | Screen printing
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- Folding (V-groove)







SWEDBOARD® Fibre FR

