



PRODUCT MetsäBoard Natural WKL Bright 70–160 g/m<sup>2</sup>

COMPANY Metsä Board Corporation

MILL Husum mill

Information gathered from 1.1.2024 to 31.12.2024 Date of issue 31.3.2025

## PRODUCT ENVIRONMENTAL DATASHEET FOR PAPERBOARD

### ENVIRONMENTAL MANAGEMENT

Certified environmental management system at the mill since 1997

Company systems ensure traceability of the origin of wood: YES  NO  100% RECOVERED PAPER

Certified environmental management system for wood procurement and board and pulp production according to ISO 14001. Certified PEFC Chain of Custody (PEFC/02-31-92) and FSC® Chain of Custody (FSC-C001580). Certificates are available at [Metsä Board's web page](#).

### ENVIRONMENTAL PARAMETERS

The figures are based on methods and procedures of measurement approved by the local (or national) environmental regulators at the production site. The figures include both pulp and paperboard production.

<b>Water</b>	COD	12.2	kg/tonne
	AOX	0.064	kg/tonne
	NTot	0.144	kg/tonne
	PTot	0.025	kg/tonne

<b>Air</b>	SO <sub>2</sub>	0.21	kg/tonne
	NO <sub>x</sub>	1.35	kg/tonne
	CO <sub>2</sub> (fossil)*	84	kg/tonne

\*This figure does not represent a full scope 1, 2 & 3 of CO<sub>2</sub> footprint and neither of carbon offsetting emissions.

Solid waste landfilled 0.38 BDkg/tonne

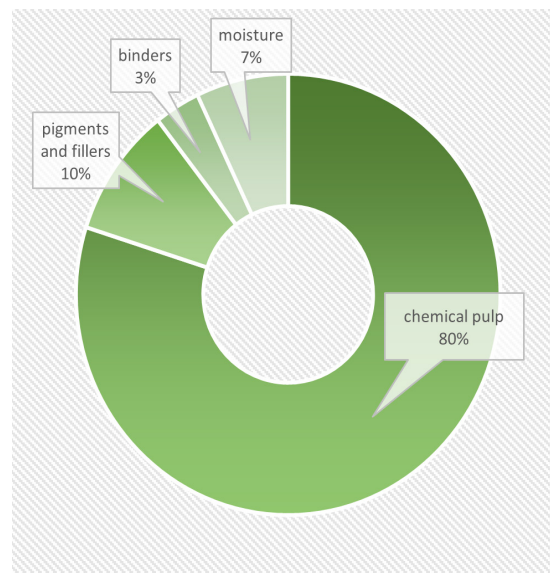
Purchased electricity consumption\*  
/tonne of final product 623 kWh

\* Any CO<sub>2</sub> fossil emissions related to the purchased electricity are not reported.

### MORE INFORMATION

Contact Panu Räsänen  
Address Metsä Board Husum Mill  
S-896 80 Husum, Sweden

### PRODUCT COMPOSITION



This product contains biogenic carbon, equivalent to 1458 kg of CO<sub>2</sub> per tonne of product.

Phone +358 (0) 50 598 9046  
e-mail panu.rasanen@metsagroup.com

# SUPPLEMENTARY SHEETS TO PAPER PROFILE

## MetsäBoard Natural WKL Bright 70–160 g/m<sup>2</sup>

### Metsä Board Husum mill, Sweden

MetsäBoard Natural WKL Bright is a fully bleached, uncoated white kraftliner suitable for flexo, offset and digital inkjet printing. MetsäBoard Natural WKL Bright has a high whiteness appropriate for applications where cleanliness and purity are important. It provides superb print contrast for luxury packaging, and its uncoated surface gives an attractive matte look and tactile feel. It provides options for lightweighting, ideal for microflute solutions. It is safe for food packaging and is a sustainable material for branded shopping bags. MetsäBoard Natural WKL Bright opens up several possibilities for an uncoated kraftliner, and can be used for all-white corrugated, as a top or reverse-side liner, and also as fluting.

#### 1. MILL INFORMATION

Metsä Board Husum produces market pulp, uncoated and coated paperboard and uncoated linerboard. The main markets are Europe and North America. Ships are used to transport the products to the terminals in Germany, UK and North America. The products are then forwarded by rail or road, depending on the distance and location of the customer. The products are transported to the Nordic markets mostly by truck, but train is also used.

Metsä Board Husum is located in the village of Husum, on the east coast of Sweden, about 600 km north of Stockholm. It is an integrated mill with a production capacity of 850,000 tonnes of paperboard and linerboard and 730,000 tonnes of chemical pulp. Metsä Board only uses Metsä Group's own pulps in its production. The mill is surrounded by forests and agricultural land. The treated effluent is directed after careful purification to the Baltic Sea.

[More information at our website](#)

#### 2. MAIN ENVIRONMENTAL TARGETS AND PERFORMANCE

Metsä Board's sustainability targets are based on the company's strategy, the materiality assessment of sustainability matters and Metsä Group's sustainability targets, which were updated in 2025. With our 2030 sustainability targets, we are committed to enhancing natural biodiversity, mitigating climate change, and promoting the sustainable use of natural resources. Metsä Board is aiming for 100% fossil-free production (i.e. zero fossil-based Scope 1 and 2 CO<sub>2</sub> emissions) and products, as well as more efficient energy and water use by 2030.

In 2024, 89% of the energy used by Metsä Board was fossil-free, and 98.9% of raw materials and packaging materials were fossil-free. Metsä Board's energy efficiency improved by 0.9 % (target+10% by 2030), and the use of process water per product tonne decreased by 11% (target -35% by 2030) from the 2018 level.

In 2024, Metsä Board achieved excellent scores in several ESG ratings, including CDP A List in climate change, water security, and forests; and the highest Platinum level and high scores in each of the four themes assessed by EcoVadis. These and other ratings provide important information of Metsä Board's sustainability ambition to our stakeholders and help us improve our operations further.

Read more in [Metsä Board's Annual review 2024](#), [Metsä Board Sustainability Review 2024](#), and [sustainability website](#).

#### 3. MANAGEMENT SYSTEMS

Metsä Board continuously develops the efficiency of its production units to improve resource efficiency and environmental performance. Metsä Board follows up on its environmental impact, for example, in the form of greenhouse gas emissions, energy consumption, water use and waste generation. One of Metsä Board's key duties is to guarantee that all its operations are sustainable and that all its products are safe for people and the environment.

All Metsä Board mills producing paperboard have the ISO 22000 certified food safety system, and the mills producing paperboard for food contact, i.e. Kemi, Kyro, Simpele, Äänekoski and Husum board mills, are also certified according to FSSC 22000 food safety system. The FSSC 22000 provides a framework for effectively managing a company's food safety responsibilities and is recognised by the Global Food Safety Initiative (GFSI).

Metsä Board's environmental management follows Metsä Group's Environmental Policy and complies with the ISO 14001 standard. The main principles of the Environmental Policy are environmental responsibility, sustainable forestry, and requiring responsibility in operations also from our suppliers. All production units have the ISO 9001 quality, ISO 14001 environmental, ISO 50001 energy, and ISO 45001 occupational health and safety management systems.

Metsä Board mills are certified according to PEFC and FSC Chain of Custody forest certification systems, which enable full traceability in the wood supply chain. The wood origins of Metsä Board's products are externally verified. Raw materials and services are purchased from suppliers who sign and follow Metsä Group's Supplier Code of Conduct.

#### MANAGEMENT SYSTEMS

ISO 9001 Quality Management	Kiwa No. 6396-09
ISO 14001 Environmental Management	Kiwa No. 6397-08
ISO 22000 Food Safety Management	ControlCert No. 2064-24-52936
FSSC 22000 Food Safety System Certification	ControlCert No. 2064-24-52936
ISO 50001 Energy Management	Kiwa No. 6399-11
ISO 45001 Occupational Health and Safety Management	Kiwa No. 6400-08
PEFC Chain of Custody	No. INS-PEFC-COC-205328
FSC Chain of Custody	No. INS-COC-100100/ INS-CW-100100

# SUPPLEMENTARY SHEETS TO PAPER PROFILE

## MetsäBoard Natural WKL Bright 70–160 g/m<sup>2</sup>

### Metsä Board Husum mill, Sweden

#### 4. ORIGIN OF WOOD

Regardless of the country of origin or whether it comes from certified or controlled forests, Metsä Group always knows the origin of the wood it uses, ensures its legality and takes measures to prevent the risk of unacceptable practices in the supply chain.

Metsä Group uses wood that comes from sustainably managed forests. Metsä Group's wood procurement is handled by the company's principal owner, Metsäliitto Cooperative. Metsäliitto Cooperative holds PEFC Chain of Custody, FSC Chain of Custody and controlled wood certificates. Metsäliitto Cooperative's wood origin tracing system is included in its certified ISO 9001 quality and 14001 environmental management systems.

Metsä Board uses only fully traceable wood for its products. In 2024, the share of certified wood Metsä Board used was 92%, while worldwide, only 10-11% of all forests are certified, and the remaining 8% came from controlled forest origins. The certification claim is shown on the delivery documents of each product.

Wood information of the product (gathered from 1.1.2024 to 31.12.2024).

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY	NAME OF SPECIES
Finland	2%	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Sweden	74%	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Estonia	11%	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Latvia	13%	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Lithuania	<1%	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )

This product fulfils the requirements of EU Timber Regulation and UK Timber Regulation as well as US Lacey Act, and all Metsä Board paperboards will be in compliance with EU Deforestation Free Regulation when its implementation starts. More about Metsä Group's wood procurement: [metsagroup.com](https://metsagroup.com)

#### 5. HANDLING AFTER USE

##### PRODUCT

The recommended handling after use is recycling but it can also be used for incineration. Preferred handling depends on local conditions and regulations. The product also has both industrial as well as home composting certification.

##### PRODUCT PACKAGING MATERIAL

The packaging material can be recycled or incinerated to produce energy. Preferred handling depends on local conditions and regulations.

#### 6. ENVIRONMENTAL PARAMETERS

##### COD = CHEMICAL OXYGEN DEMAND

The amount of oxygen consumed in complete chemical oxidation of matter present in waste water.

##### AOX = ADSORBABLE ORGANIC HALOGEN COMPOUNDS

Reported as the total amount of chlorine bound to organic compounds in waste water.

##### N<sub>TOT</sub> = TOTAL AMOUNT OF ORGANIC AND INORGANIC NITROGEN

##### P<sub>TOT</sub> = TOTAL AMOUNT OF ORGANIC AND INORGANIC PHOSPHORUS

##### SO<sub>2</sub> = SULPHUR DIOXIDE

Total sulphur emissions to air from burning sulphur-containing fuels and from chemical pulp processing, expressed as SO<sub>2</sub>.

##### NO<sub>x</sub> = NITROGEN OXIDES (NO AND NO<sub>2</sub>)

Nitrogen oxides emissions to air from combustion processes, expressed as NO<sub>2</sub>.

##### CO<sub>2</sub> = FOSSIL CARBON DIOXIDE

In the context of papermaking, fossil carbon dioxide is generated from the combustion of fossil fuels during the production of pulp and paper.

##### BIOGENIC CARBON

The amount of biomass based carbon stored in the product, expressed as CO<sub>2</sub>.

##### SOLID WASTE = NON-LIQUID WASTE LANDFILLED ON SITE AND/OR ELSEWHERE

Organic and inorganic waste materials are defined, calculated and declared as completely dry matter.

##### PURCHASED ELECTRICITY CONSUMPTION

Amount of purchased electricity per produced tonne of product.

Note: Emissions of SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> resulting from external electricity suppliers are not included.



# Metsä

Metsä Board is a producer of lightweight and high-quality folding boxboards, food service boards and white kraftliners. The pure fresh fibres we use in our products are a safe, renewable and recyclable resource, that can be traced back to northern forests. We aim to have completely fossil free mills and raw materials by the end of 2030. We promote a culture of diversity, equality and inclusion.

Metsä Board is listed on the Nasdaq Helsinki. In 2024 our sales totalled EUR 1.9 billion, and we have around 2,300 employees. Metsä Board is part of Metsä Group, whose parent company Metsäliitto Cooperative is owned by over 90,000 Finnish forest owners. The sales of the whole Metsä Group were EUR 5.7 billion.

#### **METSÄ BOARD CORPORATION**

P.O. Box 20  
FI-02021 Metsä, Finland  
Tel. +358 10 4611

[metsagroup.com/metsaboard](https://metsagroup.com/metsaboard)

