



Product	MetsäBoard Natural WKL Bright 70–160 g/m ²
Company	Metsä Board
Mill	Husum, Sweden

Information gathered from 1.1.2018 to 31.12.2018
Date of issue 30.4.2019

Environmental product declaration for paper

Environmental Management

Certified environmental management system at the mill since 1997

Company systems ensure traceability of the origin of wood yes no

Certified environmental management systems for wood procurement and paper and board production according to ISO 14001. Certified PEFC™ Chain of Custody (No. 5328-06) and FSC® Chain of Custody (No. INS-COC-100100). Certificates are available at metsaboard.com.

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 paper and pulp production.

Water	COD	11.1 kg/tonne
	AOX	0.073 kg/tonne
	N_{Tot}	0.101 kg/tonne
	P_{Tot}	0.017 kg/tonne

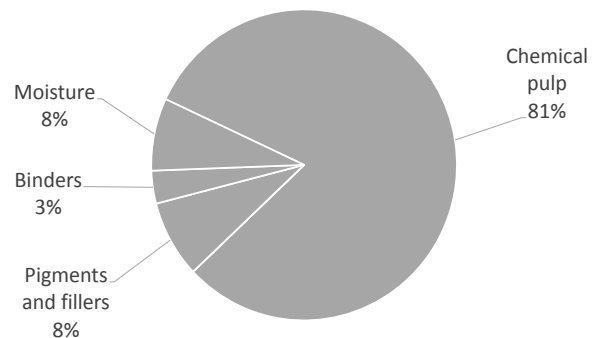
Air	SO₂	0.50 kg/tonne
	NO_x	1.52 kg/tonne
	CO₂ (fossil)	84 kg/tonne

Solid waste landfilled	0 BDkg/tonne
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Purchased electricity consumption

/tonne of final product	669 kWh
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Product composition



This product contains biomass carbon, equivalent to 1,478 kg of CO₂ per tonne of paper.

More information

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SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Natural WKL Bright 70–160 g/m²

Metsä Board Husum mill, Sweden

MetsäBoard Natural WKL Bright is a fully bleached, uncoated liner based on 100% fresh fibres, suitable for flexo and offset printing. It can be used as inner and outer liner as well as fluting. MetsäBoard Natural WKL Bright opens up many new possibilities for an uncoated liner and enables great performance in corrugating.

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 650,000 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 has set targets related to its environmental performance for the period of 2009 to 2020. These targets are followed up and reported regularly. From 2009 level Metsä Board has reduced CO₂ emissions in its production by 48% per product tonne (target -30%), Metsä Board's energy efficiency improved by 11.7% from 2009 level (target 12%) and the use of process water per product tonne decreased by 20% from 2010 level (target -17%).

In 2018, wood-based bioenergy accounted for 52% of Metsä Board's total energy use. The majority of bioenergy is produced using the company's own by-products, such as bark, black liquor and wood-based fuels originating from process side streams and logging residuals. In 2018, 82% of the total fuels used was CO₂ neutral.

Metsä Board has been rewarded a position on the CDP Water and CDP Climate A Lists. Metsä Board also received Leadership status in the CDP's Forest programme and was awarded a position in CDP's Supplier Engagement Leader Board in 2019. In 2018, Metsä Board renewed its Gold rating and was included among the top 1% in EcoVadis's suppliers assessment platform. Read more in [Metsä Board's annual report](#).

3. MANAGEMENT SYSTEMS

Metsä Board continuously develops the efficiency of its production units to improve resource efficiency and environmental performance. Metsä Board follows its environmental impact, for example, in the form of greenhouse gas emissions, energy and water consumption as well as 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 both people and the environment.

All Metsä Board mills have ISO 22000 and in addition to that Simpele, Kyro, Äänekoski and Husum board mills are also certified according to FSSC 22000 (Food Safety System Certification). 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 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 ISO 9001 quality, ISO 14001 environmental and ISO 50001 energy management systems as well as the OHSAS 18001 Occupational Health and Safety management system.

Metsä Board mills are certified according to PEFC and FSC CoC Forest certification systems enable full traceability and the wood origins of its products are externally verified. Raw materials and services are purchased from suppliers signing and following Metsä Group's Supplier Code of Conduct.

MANAGEMENT SYSTEMS

ISO 9001 Quality	RISE No. 5568
ISO 14001 Environmental Management	RISE No. 5568 M
ISO 50001 Energy Management	RISE No. 5568 ELS
ISO 22000 Food Safety Management	RISE No. 5568 L
FSSC 22000 Food Safety System Certification	RISE No. 5568 FS
OHSAS Occupational Health and Safety management system	RISE No. 5568 O
PEFC Chain of Custody	Inspecta No. 5328-06
PEFC logo licence	PEFC/02-31-92
FSC Chain of Custody	INS-COC-100100
FSC logo licence	FSC-C001580

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Metsä Board Husum mill, Sweden

4. ORIGIN OF WOOD

Regardless of the country of origin or whether it comes from certified or non-certified 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 and ISO 14001 quality and environmental management systems.

Metsä Board uses only 100% traceable wood for its products. In 2018, the share of certified wood Metsä Board used was 79% whilst worldwide only some 10% of all the forests are certified.

The product specific certification share is shown on delivery documents of each product. For information on labelled products please contact Metsä Board's local sales office.

Wood information of the product (gathered from 1.1.2018 to 31.12.2018):

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY	NAME OF SPECIES
Sweden	59%	birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Latvia	13%	birch (<i>Betula spp.</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Estonia	11%	birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Russia	10%	birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Poland	3%	spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Finland	2%	birch (<i>Betula spp.</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Lithuania	2%	birch (<i>Betula spp.</i>), spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)
Germany	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus spp.</i>)

This product fulfils the requirements of EU Timber Regulation and US Lacey Act. More about Metsä Group's wood procurement:

www.metsagroup.com

5. HANDLING AFTER USE

PRODUCT

Recommended handling after use is recycling but it can also be used for incineration. Preferred handling depends on local conditions and regulations.

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_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC NITROGEN

P_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC PHOSPHORUS

SO₂ = SULPHUR DIOXIDE

Total sulphur emissions to air from burning sulphur-containing fuels and from chemical pulp processing, expressed as SO₂.

NO_x = NITROGEN OXIDES (NO AND NO₂)

Nitrogen oxides emissions to air from combustion processes, expressed as NO₂.

CO₂ = 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 CO₂.

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 SO₂, NO_x and CO₂ resulting from external electricity suppliers are not included.

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Metsä Group is a forerunner in sustainable bioeconomy utilising renewable wood from sustainably managed northern forests. Metsä Group focuses on wood supply and forest services, wood products, pulp, fresh fibre paperboards and tissue and greaseproof papers.

In 2018, Metsä Group's sales totalled EUR 5.7 billion, and it employs approximately 9,300 people. Metsäliitto Cooperative is the parent company of Metsä Group and is owned by approximately 103,000 Finnish forest owners.

Metsä Board is a leading European producer of premium fresh fibre paperboards including folding boxboards, food service boards and white kraftliners. Our lightweight paperboards are developed to provide better, safer and more sustainable solutions for consumer goods as well as retail-ready and food service applications. We work together with our customers on a global scale to innovate solutions for better consumer experiences with less environmental impact. The pure fresh fibres Metsä Board uses are a renewable resource, traceable to origin in sustainably managed northern forests.

The global sales network of Metsä Board supports customers worldwide, including brand owners, retailers, converters and merchants. In 2018, the company's sales totalled EUR 1.9 billion, and it has approximately 2,400 employees. Metsä Board, part of Metsä Group, is listed on the Nasdaq Helsinki.

METSÄ BOARD

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