



<b>Product</b>	Carta Elegia 205–380 g/m <sup>2</sup>
<b>Company</b>	Metsä Board
<b>Mill</b>	Kyro, Finland

Information gathered from 1.1.2013 to 31.12.2013  
Date of issue 18.6.2014

## Environmental product declaration for paper

### Environmental Management

**Certified environmental management system at** the mill since 1999

**Company systems ensure traceability of the origin of wood**  yes  no

Certified environmental management system for wood procurement and board and pulp production according to ISO 14001. Certified PEFC™ Chain-of-Custody (No. 5328-04) and FSC® Chain-of-Custody (No. INS-COC-100100).

### 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.

<b>Water</b>	<b>COD</b>	5.5 kg/tonne
	<b>AOX</b>	0.028 kg/tonne
	<b>N<sub>Tot</sub></b>	0.152 kg/tonne
	<b>P<sub>Tot</sub></b>	0.008 kg/tonne

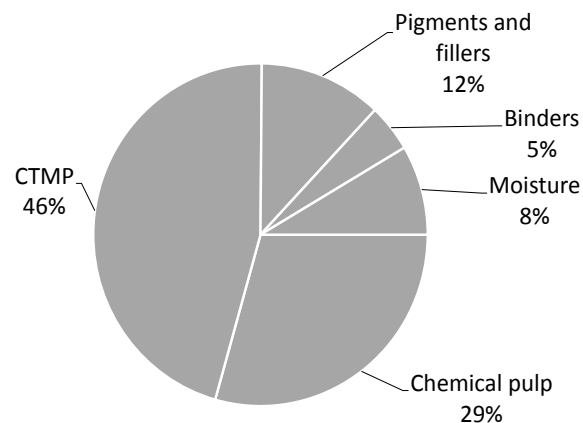
<b>Air</b>	<b>SO<sub>2</sub></b>	0.34 kg/tonne
	<b>NO<sub>x</sub></b>	1.16 kg/tonne
	<b>CO<sub>2</sub> (fossil)</b>	165 kg/tonne

<b>Solid waste landfilled</b>	6 BDkg/tonne
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### Purchased electricity consumption

/tonne of final product	1,649 kWh
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### Product composition



### More information

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# SUPPLEMENTARY SHEETS TO PAPER PROFILE

## Carta Elega 205–380 g/m<sup>2</sup>

### Metsä Board Kyro mill, Finland

Carta Elega is a fully coated folding boxboard, GC1, based on 100% fresh forest fibres. It is suitable for offset, gravure and flexo printing and it is available in reels and sheets. Typical end uses are cosmetics and other luxury packaging, and graphical applications.

#### 1. MILL INFORMATION

Metsä Board Kyro is located in Kyröskoski in the municipality of Hämeenkyrö, some 200 km northwest of Helsinki and 40 km northwest of Tampere. The mill produces up to 190,000 t/a of folding boxboard (FBB) for packaging and graphics applications. Mechanical pulp (CTMP) is bought from Joutseno and Kaskinen mills, and chemical pulp from Metsä Fibre's mills.

Most of the production is exported to Europe, its main market area and Asia, also a significant market for Metsä Board Kyro. Sheet pallets and reels are transported abroad mainly by ship. In Finland, the board is transported by truck.

The mill is mainly surrounded by agricultural land and forests. The River Pappilanjoki is the recipient of the wastewater after treatment, which comprises three stages, mechanical cleaning, biological treatment and microflotation. [Click here to view location](#)

Metsä Board's target is to reduce fossil CO<sub>2</sub> emissions in production by 30% per product tonne from the 2009 level by 2020. Due to the latest bioenergy investments, this goal was met in 2013. Metsä Board's energy efficiency improved by 7% from 2009–2013. The target is to improve energy efficiency by 10% by 2020 from the 2009 level.

In 2013, wood-based bioenergy accounted for 58%, or 12.6 TWh, of Metsä Board's total energy consumption. The majority of bioenergy is produced using the company's own by-products, such as bark and black liquor. The rest is wood-based fuels originating from process side streams and logging residuals. In total, 90% of the total energy purchased was CO<sub>2</sub> neutral.

#### 2. MANAGEMENT SYSTEMS

Metsä Board continuously develops the productivity and efficiency of its production units with investments and development actions that improve profitability and result in targeted growth, while enhancing resource efficiency and environmental performance. Metsä Board follows its environmental impact, for example in the forms of greenhouse gas emissions, energy and water consumption as well as waste generation. One of Metsä Board's most fundamental duties is to guarantee that all its operations are sustainable and all its products are safe for both people and the environment.

Metsä Board's environmental management is guided by Metsä Group's Environmental Policy and compliance with the ISO 14001 standard for environmental management. The main principles of the Group's Environmental Policy are environmental responsibility, energy and environmental efficiency, sustainable forestry, and requiring environmental responsibility from our suppliers. All Metsä Board's production units have a certified ISO 9001 quality system and an ISO 14001 environmental system in place as well as a certified Chain-of-Custody forest certification system that enables the reliable verification of the amount of certified wood in the products.

Metsä Board requires that its suppliers' operations are sustainable and supports them in ethical business operations and in committing to responsible operating methods. Raw materials and services are purchased from reliable suppliers who are able to sign the Supplier Code of Conduct that highlights the respect for human rights and the importance of a safe working environment and which prohibits corruption and bribery.

#### MANAGEMENT SYSTEMS

ISO 9001 Quality	Inspecta No. 6396-03
ISO 14001 Environmental Management	Inspecta No. 6397-03
ISO 22000 Food Safety Management	Inspecta No. 6398-03
ISO 50001 Energy Management	Inspecta No. 6399-04
OHSAS 18000 Occupational Health and Safety Management	Inspecta No. 6400-03
PEFC chain-of-custody	Inspecta No. 5328-04
PEFC logo licence	PEFC/02-31-92
FSC chain-of-custody	INS-COC-100100
FSC logo licence	FSC-C001580

Date of issue 18.6.2014  
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# SUPPLEMENTARY SHEETS TO PAPER PROFILE

## Carta Elega 205–380 g/m<sup>2</sup>

### Metsä Board Kyro mill, Finland

#### 3. 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 FSC 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.

While only some 10% of all the forests in the world have been certified, the target of Metsä Board is to continuously increase the proportion of certified wood entering the supply chain. The total share of wood from certified forests in this product is 82%. For information on labelled products please contact Metsä Board's local sales office.

Wood information of the product (gathered from 1.1.2013 to 31.12.2013):

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY (%)	NAME OF SPECIES ENGLISH (LATIN)
Finland	71	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Russia	25	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Estonia	3	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> ), aspen ( <i>Populus tremula</i> )
Latvia	1	spruce ( <i>Picea abies</i> ), pine ( <i>Pinus sylvestris</i> ), birch ( <i>Betula spp.</i> )
Lithuania	<1	pine ( <i>Pinus sylvestris</i> )

This product fulfils the requirements of EU Timber Regulation and US Lacey Act. More about Metsä Group's wood procurement: [www.metsagroup.com](http://www.metsagroup.com)

#### 4. HANDLING AFTER USE

##### PRODUCT

The preferred handling of the product is incineration to produce energy.

##### PRODUCT PACKAGING MATERIAL

The packaging material can be recycled or incinerated for energy production. Wooden pallets are best utilised as fuel in energy production.

#### 5. 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> = TOTAL AMOUNT OF 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.

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Metsä Group is a responsible forest industry group whose products' main raw material is renewable and sustainably grown northern wood. Metsä Group focuses on tissue and cooking papers, consumer packaging paperboards, pulp, wood products, and wood supply and forest services. Its high-quality products combine renewable raw materials, customer-orientation, sustainable development and innovation. Metsä Group's sales totalled EUR 4.9 billion in 2013, and it employs approximately 11,000 people. The Group operates in some 30 countries. Metsäliitto Cooperative is the parent company of Metsä Group and is owned by approximately 123,000 Finnish forest owners.

Metsä Board is Europe's leading producer of fresh forest fibre cartonboards, the world's leading manufacturer of coated white-top kraftliners, and a major paper supplier. It offers premium solutions for consumer and retail packaging, graphics and office end-uses. The company's sales network serves brand owners, carton printers, corrugated packaging manufacturers, printers, merchants and office suppliers. Metsä Board is part of Metsä Group and is listed on the NASDAQ OMX Helsinki. In 2013, Metsä Board's sales totalled EUR 2.0 billion. Metsä Board has approximately 3,100 employees.

**METSÄ BOARD**

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