



ENVIRONMENTAL DECLARATION

INCADA®

2014

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# INCADA®

## 2014

Based on mill data from the period 2014-01-01 to 2014-12-31

Product: Incada family 200 - 350 g/m<sup>2</sup>  
Site: Iggesund Workington, UK  
Company: Iggesund Paperboard AB

### WOOD SUPPLY

All the mechanical pulp used in the production of Incada is produced onsite from locally sourced UK grown spruce.

### PULP SUPPLY

All of the chemical pulp used in the production of Incada is manufactured from pine and spruce supplied by our sister mill Iggesunds Bruk in Sweden and plantation eucalyptus from approved mills in Iberia and South America.

### PRODUCT COMPOSITION

Dependant on product and grammage the composition will vary.

Mechanical pulp	46 - 73 %
Chemical pulp (ECF)	16 - 26 %
Coating	6 - 14 %

### SOURCING OF ENERGY

On Site dedicated Biomass fuelled Combined Heat and Power (CHP) Plant.  
Surplus renewable electricity is sold to the national grid.

Electricity used 1 201 kWh/t  
Iggesund Workington has reduced the use of fossil fuels in energy production to almost zero.

### EMISSIONS TO WATER

COD	49.5 kg/t
AOX	None
Nitrogen	0.14 kg/t
Phosphorus	0.031 kg/t
Process water discharge	36.4 m <sup>3</sup> /t

### EMISSIONS TO AIR

SO <sub>2</sub>	0.06 kg/t
NO <sub>x</sub>	0.7 kg/t
CO <sub>2</sub> (from fossil sources)	36 kg/t

**SOLID WASTE TO LANDFILL** 0.14 kg/t

**PROCESS WASTE TO LANDFILL** None

### ENVIRONMENTAL MANAGEMENT

The environmental management system is certified to ISO14001:2004 by auditors LRQA (cert. no. LRQ0772983). Registered since 20th January 2003. The mill operates all processes with an environmental licence (BJ7590) issued, under the Environmental Permitting (England & Wales) Regulations 2010, by the Environment Agency. All fibrous raw materials are purchased from well managed forests, with independent verification according to FSC. Incada products are available with FSC Chain of Custody certification according to the mix category. Registered since 22nd August 2005.

### CONTACT INFORMATION

Richard Scales, Iggesund Workington, UK  
Telephone: +44 1900 601000, E-mail: richard.scales@iggesund.com

### **WOOD SUPPLY**

All wood used in the manufacture of mechanical pulp at Iggesund Workington is certified in accordance with FSC, or meets the requirements of the FSC controlled wood standard. Incada can be supplied certified in accordance with FSC.

### **PULP SUPPLY**

The wood used in the production of all our externally sourced chemical pulps comes from forests that are certified in accordance with either FSC or PEFC or meet the requirements of the FSC controlled wood standard.

### **PRODUCT COMPOSITION**

The chemical and mechanical pulp (ECF) used in the production of Incada assures a good hygienic standard as well as taint and odour neutrality. The coating consists of calcium carbonate, clay and a binding agent in various combinations dependant on the end products property requirements and intended use.

### **SOURCING OF ENERGY**

All energy used on-site is currently produced in a dedicated Biomass fuelled Combined Heat and Power (CHP) Plant which meets all of the production sites steam and electrical requirements.

### **EMISSIONS TO WATER**

The Workington mill is situated on the UK west coast. The mill's compliance with all the emission levels set by the UK authorities is monitored by the continuous measurement of discharge levels. Studies of the marine ecosystems around the mill are also made to ensure their balance is not disturbed.

### **COD**

Chemical Oxygen Demand is a surrogate measurement of the amount of oxygen consumed in the environment resulting from the decomposition of organic compounds. The presence of wood extractives and carbohydrates resulting from the pulping process form the main contribution to COD levels. The UK licensing authorities set emissions based on COD levels that are suited to local conditions and the marine environment adjacent to the mill.

### **AOX**

These are adsorbable organic halogens produced during the pulp manufacturing process. High levels of AOX negatively affect marine organisms. The process used in the manufacture of mechanical pulp at Workington does not give rise to AOX.

### **NITROGEN AND PHOSPHORUS**

Nitrogen and phosphorous are elements that when present in large amounts contribute to the overfertilisation (eutrophication) of marine environments. Discharges from Workington are on an extremely low level.

### **PROCESS WATER DISCHARGE**

The Workington mill is geographically located in an area of abundant water supply and there is no shortage of availability. All process water is re-circulated and re-used within the process a number of times and in recent years we have succeeded in reducing our consumption by over 40 %. Before final discharge to the open sea process water is treated according to a standard agreed with the authorities.

### **EMISSIONS TO AIR - SO<sub>2</sub> AND NO<sub>2</sub>**

These normally arise from combustion processes used in the production of energy. They contribute to eutrophication, acidification and the creation of ground-level ozone. All emissions are regulated and monitored by the UK licensing authorities.

### **CO<sub>2</sub>**

Carbon dioxide is a naturally occurring gas but increasing emissions from fossil fuels are contributing to global climate change. This value indicates the emission of fossil CO<sub>2</sub> from the production of Incada. All energy used will be predominantly from renewable sources resulting in reduced CO<sub>2</sub> emissions. This value should not be confused with the far broader concept of carbon footprint which encompasses much of the products lifecycle. For information about Incada's carbon footprint please contact an Iggesund representative in your market or visit [www.iggesund.com](http://www.iggesund.com).

### **SOLID / PROCESS WASTE TO LANDFILL**

Sending waste to landfill creates an unsustainable stress on local landfill facilities and is a growing environmental problem. In the production of Incada we have systematically reduced our process waste to zero, with the very small balance coming from other mill activities where this waste cannot be reused or recycled.

## FIBRE SOURCING INFORMATION

Based on data from the period 1 Jan 2014 – 31 Dec 2014

Paper product: Incada 200 - 350g/m<sup>2</sup>  
Paper type: Folding Box Board, virgin fibre  
Company and mill: Iggesund Paperboard, Workington Mill  
Mill's environmental certificates: FSC TT-COC-002067  
ISO 14001 : 2004 LRQ 6772983

[www.iggesund.com/en/Iggesund/Sustainable-goals/FSC-and-PEFC-Certificates/](http://www.iggesund.com/en/Iggesund/Sustainable-goals/FSC-and-PEFC-Certificates/)

Reporting period: 1 Jan 2014 – 31 Dec 2014

### WOOD SOURCING INFORMATION, WORKINGTON 2014

Type of wood	Country of origin	%	Procurement region	Species	Forest owners	Certificates
Softwood	UK	68	Northern England / Scotland	pine	Forestry Commission and private growers	TT-COC-1506

### PULP SOURCING INFORMATION, WORKINGTON 2014

Type of wood	Country of origin	%	Procurement region	Species	Forest owners	Certificates
Hardwood	Chile	17	Chile	eucalyptus	Private companies	RA-COC-006571
Softwood	Sweden	9	Central Sweden	pinus spp	Home owned and private growers	TUEV-COC-000232
Hardwood	Spain	5	Spain	eucalyptus	Private companies	SCS-COC-004865
Hardwood	Portugal	1	Portugal	eucalyptus	Private companies	SW-COC-001829

### METHODS

Certification scheme	Method	
FSC®	Credit system	100%