0Statement of Verification

BREG EN EPD No.: 000494 Issue 01

This is to verify that the

Environmental Product Declaration

provided by:

COAT Trading Ltd

BRE Global Verified EPD

is in accordance with the requirements of:

EN 15804:2012+A2:2019

and

BRE Global Scheme Document SD207

This declaration is for:

To protect and decorate 1 m^2 of substrate, based upon a spread rate of 10m^2/L.

Company Address

COAT Paints
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London,
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COAT

Signed for BRE Global Ltd	Emma Baker Operator	26 May 2023 Date of this Issue
26 May 2023 Date of First Issue		25 May 2028 Expiry Date

BRE Global Verified EPD

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ECO PLATFORM EPD VERIFIED

Environmental Product Declaration

EPD Number: 000494

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE Environmental Profiles 2013 Product Category Rules for Type III environmental product declaration of construction products to EN 15804+A2 PN 514 Rev 3.0
Commissioner of LCA study	**LCA consultant/Tool**
COAT Trading Ltd Trading as COAT Paints	Maria Feced Mateu, Re-Viu
Declared/Functional Unit	**Applicability/Coverage**
To protect and decorate 1 m^2 of substrate, based upon a spread rate of 10m^2/L.	Product Average.
EPD Type	**Background database**
Cradle to Gate with options	Ecoinvent v3.8 EN15804 add-on (2022)
Demonstration of Verification	
CEN standard EN 15804 serves as the core PCR [a]	
Independent verification of the declaration and data according to EN ISO 14025:2010 ☐Internal ☒ External	
(Where appropriate [b])Third party verifier: Pat Hermon	
a: Product category rules b: Optional for business-to-business communication; mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)	
Comparability	
Environmental product declarations from different programmes may not be comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See Clause 5.3 of EN 15804:2012+A2:2019 for further guidance	

Information modules covered

Product			Construction		Use stage							End-of-life					Benefits and loads beyond the system boundary
					Related to the building fabric					Related to the building							
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4		D
Raw materials supply	Transport	Manufacturing	Transport to site	Construction – Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal		Reuse, Recovery and/or Recycling potential
☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☑	☑	☑	☑		☑

Note: Ticks indicate the Information Modules declared.

Manufacturing sites

Lancashire and Suffolk,
United Kingdom

Construction Product:

Product Description

COAT paints are high quality acrylic, water-based decorative emulsions. Low odour, low VOC and B Corp certified, they have been developed to offer a durable, sustainable product with a richly pigmented, premium finish. There are four professional finishes in the range:
Flat Matt paint has a rich chalky finish that's easy to clean and long-lasting. It's good for pretty much any interior wall or ceiling surface. It's the most matt finish COAT does, and has a really premium look as well as being super hardy and easy to clean.
Soft Sheen is perfect for Kitchens, Bathrooms and high traffic areas. With a slight sheen, it's great for reflecting more light into spaces and it does well in humid rooms. It's mould resistant, and easily wipeable too.
Eggshell is the one for woodwork, trim and flooring. One up from matt, this trim paint looks great and stands up to years of knocks and scuffs. It was made for the tough life in doorways, on skirting and upcycling furniture so it's stain resistant and easy to clean.
Exterior Eggshell is designed for all external applications. To be used on wood, metal and masonry for a scuff-hardy finish, it is weatherproof and flexible to stand up to the elements.

The EPD covers the following products variants depending on the finish and the paint base, if extra deep (XD) or white (W):

- Flat Matt XD
- Flat Matt W
- Soft Sheen XD
- Soft Sheen W
- Eggshell XD
- Eggshell W
- Exterior Eggshell XD
- Exterior Eggshell W

As all products have a wide range of colour options, a representative colour has been chosen: Park Life for XD products and Mindful for W products. These colours are representative of all products range of colours as the variation in impact for GWP-total is less than 10%.

The product can be delivered in various formats: 1L, 2.5L and 5L tinplate can. For this EPD, the 1L format was assumed as a conservative approach.

Technical Information

Property	Value, Unit
Dry time	2 Hours
Re-coat Time	4 Hours
Coverage	10m^2 per Litre

Scrub Class 1 rated to ISO 11998
Toy Safety Standard Pass BS EN 71-3: 2019+A1:2021, EN 71-3: 2019+A1:2021

Main Product Contents

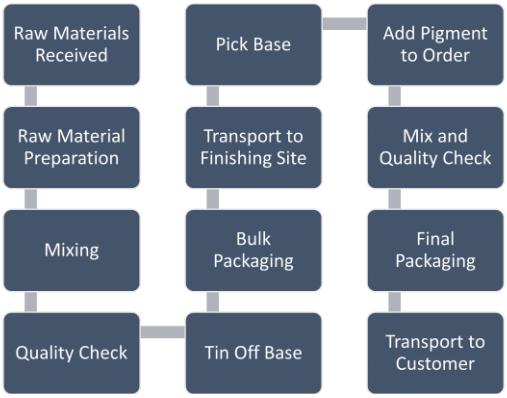
The material composition of the declared mixed product:

Material/Chemical Input	%
Binder	<50%
Pigment / Filler	20-45%
Water	17-31%
Additives	<10%

Manufacturing Process

The manufacturing process for coatings involves combining and mixing multiple chemicals and materials into a homogenous product, which is then packaged and distributed.
The manufacturing processes for each of the products are identical.

Process flow diagram



Construction Installation

As the product is directly delivered to the final user, no product waste is generated during the distribution stage.

For more information on the application of the paint: coatpaints.com/pages/faqs

Empty tins or unused paint can be sent back to recycle.

Use Information

During the use stage no direct emissions are produced.

End of Life

The end of life of the product considers the disposal of dried coating film. The paint is discharged together with the surface it is applied on. Thus, the end of life scenario of the product is that of the substrate. It is assumed 100% landfill scenario.

Life Cycle Assessment Calculation Rules

Declared / Functional unit description

To protect and decorate 1 m^2 of substrate, based upon a spread rate of 10m^2/L.

The average coverage rate per declared unit is:

Paint product	Product coverage (kg/m^2)
Eggshell XD	0.1196
Eggshell W	0.1290
Exterior Eggshell XD	0.1179
Exterior Eggshell W	0.1190
Soft Sheen XD	0.1171
Soft Sheen W	0.1214
Flat Matt XD	0.1184
Flat Matt W	0.1324

System boundary

The cradle-to-gate with options EPD includes the Product stage (A1-A3), Transport to site module (A4), End of life stage (C1-C4) and Benefits and loads beyond the system boundary (module D).
As the system boundaries don't cover the application stage (module A5), where the packaging and paint can be recycled, module D is not relevant.

Data sources, quality and allocation

Specific data has been collected by COAT for the year 2021 for the product composition, suppliers and manufacturing process. Specific data is representative of the geographical area where they took place.

Ecoinvent v3.8 EN 15804 add-on (2022) included in openLCA v1.11 LCA software has been selected as the reference database for background data.

Electricity consumed in the manufacturing process has been modelled adapting Ecoinvent datasets based on electricity suppliers mix to evaluate the market-based results, and based on 2021 UK electricity generated (Department for Business, Energy & Industrial Strategy, 2022) to evaluate consumption-based results.

When allocation was necessary in the manufacturing process, it was based on mass or volume.

Cut-off criteria

All inputs and outputs to a unit process for which data are available have been included in the calculation. In case of insufficient input data or data gaps for a unit process, according to the PCR, the cut-off criteria are limited to 1% of the total mass input of that unit process, unless a material has the potential of causing significant emissions into the air, water, or soil, is classified as hazardous waste or is known to be resource-intensive. The total sum of neglected input flows is limited to 5% of energy usage and mass.

LCA Results

The LCA results per product are representative for all colour options, being the variability for GWP-total results lower than 10%.

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Eggshell XD			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.74E-01	2.85E-01	-1.20E-02	3.34E-04	4.48E-07	2.66E-03	9.85E-05
	Total Market Based Energy	A1-3	2.73E-01	2.84E-01	-1.13E-02	3.37E-04	4.48E-07	2.66E-03	9.86E-05
Construction process stage	Transport	A4	1.23E-02	1.23E-02	3.10E-05	7.31E-06	2.69E-09	3.54E-05	1.15E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.63E-04	5.61E-04	9.98E-07	2.25E-07	1.30E-10	1.59E-06	3.70E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.84E-04	1.83E-04	1.23E-06	4.21E-08	9.05E-11	1.79E-06	1.07E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Eggshell XD			EP-marine	EP-terrestrial	POCP	ADP-mineral&metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.30E-04	2.84E-03	9.60E-04	5.11E-06	1.74E+00	2.44E-01	1.68E-08
	Total Market Based Energy	A1-3	3.30E-04	2.84E-03	9.60E-04	5.11E-06	1.74E+00	2.44E-01	1.68E-08
Construction process stage	Transport	A4	6.56E-06	7.10E-05	2.66E-05	7.34E-08	1.90E-02	1.19E-03	5.75E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.25E-07	3.53E-06	1.32E-06	1.91E-09	6.49E-04	4.14E-05	3.55E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.78E-07	7.44E-06	2.10E-06	3.35E-10	2.14E-04	3.06E-04	3.89E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Eggshell XD			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.20E-02	5.26E-01	1.68E-09	1.41E-08	1.15E+00
	Total Market Based Energy	A1-3	3.06E-02	5.26E-01	1.68E-09	1.41E-08	1.15E+00
Construction process stage	Transport	A4	1.02E-03	4.35E-03	5.53E-12	2.96E-10	9.74E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.39E-05	2.85E-04	1.81E-13	1.06E-11	7.22E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.85E-05	3.11E-05	6.12E-14	1.84E-12	1.06E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Eggshell XD			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.95E-01	4.11E-01	7.06E-01	2.24E+00	3.06E+00	5.30E+00
	Total Market Based Energy	A1-3	3.03E-01	4.23E-01	7.26E-01	2.23E+00	3.04E+00	5.27E+00
Construction process stage	Transport	A4	2.87E-03	1.01E-03	3.88E-03	2.48E-02	1.62E-01	1.87E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.15E-05	3.00E-05	1.22E-04	8.30E-04	7.74E-03	8.57E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	7.02E-05	5.03E-05	1.20E-04	3.00E-04	5.57E-03	5.87E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Eggshell XD			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.78E-02	5.63E-03	4.71E-02	5.89E-03
	Total Market Based Energy	A1-3	4.79E-02	5.63E-03	4.71E-02	5.88E-03
Construction process stage	Transport	A4	2.85E-04	8.91E-05	4.09E-04	2.83E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.69E-06	2.60E-06	1.06E-05	9.85E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	5.17E-06	1.73E-06	8.07E-07	7.14E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Eggshell XD			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.53E-01	7.90E-02	2.80E-04
	Total Market Based Energy	A1-3	8.53E-01	7.90E-02	2.69E-04
Construction process stage	Transport	A4	6.03E-03	5.87E-03	4.80E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.91E-04	4.42E-04	1.71E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	5.22E-05	4.31E-02	9.15E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Eggshell XD			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.25E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.25E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Eggshell W			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.39E-01	4.48E-01	-9.17E-03	4.55E-04	5.81E-07	3.68E-03	1.72E-04
	Total Market Based Energy	A1-3	4.39E-01	4.47E-01	-8.44E-03	4.57E-04	5.81E-07	3.68E-03	1.72E-04
Construction process stage	Transport	A4	1.31E-02	1.31E-02	3.29E-05	7.77E-06	2.86E-09	3.76E-05	1.22E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.16E-04	9.14E-04	1.63E-06	3.66E-07	2.12E-10	2.59E-06	6.03E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.00E-04	2.98E-04	2.01E-06	6.85E-08	1.47E-10	2.92E-06	1.74E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Eggshell W			EP-marine	EP-terrestrial	POCP	ADP-mineral &metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.22E-04	4.65E-03	1.46E-03	6.39E-06	2.80E+00	3.53E-01	2.42E-08
	Total Market Based Energy	A1-3	5.23E-04	4.66E-03	1.46E-03	6.39E-06	2.80E+00	3.53E-01	2.42E-08
Construction process stage	Transport	A4	6.97E-06	7.54E-05	2.83E-05	7.79E-08	2.02E-02	1.26E-03	6.11E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.28E-07	5.74E-06	2.15E-06	3.11E-09	1.06E-03	6.73E-05	5.79E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.10E-06	1.21E-05	3.42E-06	5.46E-10	3.49E-04	4.98E-04	6.34E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Eggshell W			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.38E-02	7.90E-01	1.88E-09	2.09E-08	3.38E+00
	Total Market Based Energy	A1-3	5.22E-02	7.90E-01	1.88E-09	2.09E-08	3.38E+00
Construction process stage	Transport	A4	1.08E-03	4.63E-03	5.88E-12	3.15E-10	1.03E-01
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.14E-05	4.64E-04	2.95E-13	1.72E-11	1.18E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.64E-05	5.06E-05	9.96E-14	3.00E-12	1.72E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Eggshell W			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.15E-01	4.64E-01	8.79E-01	3.62E+00	4.12E+00	7.74E+00
	Total Market Based Energy	A1-3	4.23E-01	4.75E-01	8.98E-01	3.61E+00	4.10E+00	7.71E+00
Construction process stage	Transport	A4	3.05E-03	1.07E-03	4.12E-03	2.64E-02	1.72E-01	1.98E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.49E-04	4.89E-05	1.98E-04	1.35E-03	1.26E-02	1.39E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.14E-04	8.18E-05	1.96E-04	4.88E-04	9.07E-03	9.55E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Eggshell W			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.91E-02	1.04E-02	8.27E-02	8.65E-03
	Total Market Based Energy	A1-3	5.91E-02	1.04E-02	8.27E-02	8.65E-03
Construction process stage	Transport	A4	3.03E-04	9.46E-05	4.34E-04	3.01E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.42E-05	4.23E-06	1.72E-05	1.60E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.42E-06	2.82E-06	1.31E-06	1.16E-05
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Eggshell W			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.92E+00	8.96E-02	4.83E-04
	Total Market Based Energy	A1-3	2.92E+00	8.96E-02	4.71E-04
Construction process stage	Transport	A4	6.40E-03	6.24E-03	5.10E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.11E-04	7.19E-04	2.78E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.50E-05	7.02E-02	1.49E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Eggshell W			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	2.07E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	2.07E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	6.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Exterior Eggshell XD			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.74E-01	2.86E-01	-1.17E-02	3.36E-04	4.41E-07	2.76E-03	1.00E-04
	Total Market Based Energy	A1-3	2.74E-01	2.85E-01	-1.09E-02	3.39E-04	4.41E-07	2.76E-03	1.00E-04
Construction process stage	Transport	A4	1.22E-02	1.22E-02	3.07E-05	7.23E-06	2.66E-09	3.50E-05	1.14E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.50E-04	5.48E-04	9.76E-07	2.20E-07	1.27E-10	1.56E-06	3.62E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.80E-04	1.79E-04	1.21E-06	4.11E-08	8.85E-11	1.75E-06	1.04E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Exterior Eggshell XD			EP-marine kg N eq	EP-terrestrial mol N eq	POCP kg NMVOC eq	ADP-mineral& metals kg Sb eq	ADP-fossil MJ, net calorific value	WDP m^3 world eq deprived	PM disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.31E-04	2.85E-03	9.64E-04	5.16E-06	1.75E+00	2.49E-01	1.70E-08
	Total Market Based Energy	A1-3	3.31E-04	2.85E-03	9.65E-04	5.17E-06	1.76E+00	2.49E-01	1.70E-08
Construction process stage	Transport	A4	6.48E-06	7.02E-05	2.64E-05	7.25E-08	1.88E-02	1.18E-03	5.68E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.17E-07	3.45E-06	1.29E-06	1.87E-09	6.34E-04	4.04E-05	3.47E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.63E-07	7.27E-06	2.06E-06	3.28E-10	2.09E-04	2.99E-04	3.80E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Exterior Eggshell XD			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.27E-02	5.25E-01	1.68E-09	1.44E-08	1.18E+00
	Total Market Based Energy	A1-3	3.13E-02	5.25E-01	1.68E-09	1.44E-08	1.19E+00
Construction process stage	Transport	A4	1.01E-03	4.31E-03	5.47E-12	2.93E-10	9.63E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.29E-05	2.78E-04	1.77E-13	1.03E-11	7.05E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.78E-05	3.04E-05	5.98E-14	1.80E-12	1.03E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Exterior Eggshell XD			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.98E-01	4.08E-01	7.07E-01	2.27E+00	2.99E+00	5.26E+00
	Total Market Based Energy	A1-3	3.06E-01	4.20E-01	7.26E-01	2.25E+00	2.97E+00	5.22E+00
Construction process stage	Transport	A4	2.84E-03	9.95E-04	3.84E-03	2.46E-02	1.60E-01	1.85E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.94E-05	2.93E-05	1.19E-04	8.11E-04	7.56E-03	8.37E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.86E-05	4.91E-05	1.18E-04	2.93E-04	5.44E-03	5.73E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Exterior Eggshell XD			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.83E-02	5.78E-03	4.97E-02	6.02E-03
	Total Market Based Energy	A1-3	4.83E-02	5.78E-03	4.97E-02	6.01E-03
Construction process stage	Transport	A4	2.82E-04	8.81E-05	4.04E-04	2.80E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.49E-06	2.54E-06	1.03E-05	9.63E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	5.05E-06	1.69E-06	7.89E-07	6.98E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Exterior Eggshell XD			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.84E-01	8.22E-02	2.86E-04
	Total Market Based Energy	A1-3	8.84E-01	8.23E-02	2.75E-04
Construction process stage	Transport	A4	5.96E-03	5.80E-03	4.75E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.87E-04	4.32E-04	1.67E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	5.10E-05	4.21E-02	8.94E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Exterior Eggshell XD			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.28E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.28E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Exterior Eggshell W			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.97E-01	4.06E-01	-9.60E-03	4.26E-04	4.64E-07	3.51E-03	1.56E-04
	Total Market Based Energy	A1-3	3.96E-01	4.05E-01	-8.87E-03	4.28E-04	4.64E-07	3.51E-03	1.56E-04
Construction process stage	Transport	A4	1.23E-02	1.23E-02	3.09E-05	7.28E-06	2.68E-09	3.52E-05	1.14E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.33E-04	7.32E-04	1.30E-06	2.93E-07	1.70E-10	2.08E-06	4.83E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.40E-04	2.38E-04	1.61E-06	5.48E-08	1.18E-10	2.34E-06	1.39E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Exterior Eggshell W			EP-marine	EP-terrestrial	POCP	ADP-mineral &metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.64E-04	4.11E-03	1.31E-03	6.11E-06	2.56E+00	3.33E-01	2.25E-08
	Total Market Based Energy	A1-3	4.65E-04	4.12E-03	1.31E-03	6.12E-06	2.56E+00	3.33E-01	2.25E-08
Construction process stage	Transport	A4	6.53E-06	7.07E-05	2.65E-05	7.30E-08	1.89E-02	1.18E-03	5.72E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.23E-07	4.60E-06	1.72E-06	2.49E-09	8.46E-04	5.39E-05	4.63E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.84E-07	9.70E-06	2.74E-06	4.37E-10	2.79E-04	3.99E-04	5.07E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Exterior Eggshell W			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.89E-02	7.18E-01	1.82E-09	1.95E-08	2.85E+00
	Total Market Based Energy	A1-3	4.74E-02	7.18E-01	1.82E-09	1.95E-08	2.85E+00
Construction process stage	Transport	A4	1.02E-03	4.34E-03	5.51E-12	2.95E-10	9.69E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.72E-05	3.71E-04	2.36E-13	1.38E-11	9.41E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.71E-05	4.05E-05	7.97E-14	2.40E-12	1.38E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Exterior Eggshell W			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.88E-01	4.52E-01	8.40E-01	3.31E+00	3.79E+00	7.10E+00
	Total Market Based Energy	A1-3	3.96E-01	4.63E-01	8.59E-01	3.30E+00	3.77E+00	7.06E+00
Construction process stage	Transport	A4	2.86E-03	1.00E-03	3.86E-03	2.47E-02	1.61E-01	1.86E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.19E-04	3.91E-05	1.58E-04	1.08E-03	1.01E-02	1.12E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	9.14E-05	6.55E-05	1.57E-04	3.90E-04	7.26E-03	7.65E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Exterior Eggshell W			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.68E-02	9.36E-03	7.74E-02	8.14E-03
	Total Market Based Energy	A1-3	5.68E-02	9.36E-03	7.74E-02	8.14E-03
Construction process stage	Transport	A4	2.84E-04	8.87E-05	4.07E-04	2.82E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.13E-05	3.39E-06	1.38E-05	1.28E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.74E-06	2.26E-06	1.05E-06	9.30E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Exterior Eggshell W			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.45E+00	8.97E-02	4.38E-04
	Total Market Based Energy	A1-3	2.45E+00	8.98E-02	4.27E-04
Construction process stage	Transport	A4	6.00E-03	5.84E-03	4.78E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.49E-04	5.76E-04	2.23E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.80E-05	5.62E-02	1.19E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Exterior Eggshell W			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.90E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.90E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	9.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	5.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Soft Sheen XD			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.51E-01	2.63E-01	-1.23E-02	3.15E-04	7.30E-07	2.44E-03	9.08E-05
	Total Market Based Energy	A1-3	2.51E-01	2.62E-01	-1.16E-02	3.18E-04	7.30E-07	2.44E-03	9.09E-05
Construction process stage	Transport	A4	1.21E-02	1.21E-02	3.05E-05	7.19E-06	2.64E-09	3.48E-05	1.13E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.23E-04	5.22E-04	9.29E-07	2.09E-07	1.21E-10	1.48E-06	3.45E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.71E-04	1.70E-04	1.15E-06	3.91E-08	8.42E-11	1.67E-06	9.93E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Soft Sheen XD			EP-marine	EP-terrestrial	POCP	ADP-mineral &metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.08E-04	2.65E-03	8.77E-04	4.88E-06	1.60E+00	2.18E-01	1.58E-08
	Total Market Based Energy	A1-3	3.08E-04	2.66E-03	8.77E-04	4.89E-06	1.60E+00	2.18E-01	1.58E-08
Construction process stage	Transport	A4	6.45E-06	6.99E-05	2.62E-05	7.21E-08	1.87E-02	1.17E-03	5.65E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.02E-07	3.28E-06	1.23E-06	1.78E-09	6.04E-04	3.85E-05	3.31E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.31E-07	6.92E-06	1.96E-06	3.12E-10	1.99E-04	2.85E-04	3.62E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Soft Sheen XD			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.91E-02	4.93E-01	1.65E-09	1.32E-08	1.08E+00
	Total Market Based Energy	A1-3	2.77E-02	4.93E-01	1.65E-09	1.32E-08	1.08E+00
Construction process stage	Transport	A4	1.00E-03	4.28E-03	5.44E-12	2.91E-10	9.58E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.08E-05	2.65E-04	1.68E-13	9.82E-12	6.71E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.65E-05	2.89E-05	5.69E-14	1.71E-12	9.82E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Soft Sheen XD			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.79E-01	3.99E-01	6.77E-01	2.06E+00	2.65E+00	4.71E+00
	Total Market Based Energy	A1-3	2.87E-01	4.10E-01	6.97E-01	2.04E+00	2.63E+00	4.67E+00
Construction process stage	Transport	A4	2.83E-03	9.90E-04	3.82E-03	2.44E-02	1.59E-01	1.84E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.51E-05	2.79E-05	1.13E-04	7.72E-04	7.20E-03	7.97E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.53E-05	4.68E-05	1.12E-04	2.79E-04	5.18E-03	5.46E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Soft Sheen XD			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.64E-02	5.03E-03	4.26E-02	5.27E-03
	Total Market Based Energy	A1-3	4.64E-02	5.03E-03	4.26E-02	5.26E-03
Construction process stage	Transport	A4	2.81E-04	8.76E-05	4.02E-04	2.78E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.08E-06	2.42E-06	9.82E-06	9.16E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.81E-06	1.61E-06	7.51E-07	6.64E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Soft Sheen XD			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	7.88E-01	7.31E-02	2.53E-04
	Total Market Based Energy	A1-3	7.88E-01	7.32E-02	2.42E-04
Construction process stage	Transport	A4	5.93E-03	5.77E-03	4.72E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.78E-04	4.11E-04	1.59E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.86E-05	4.01E-02	8.51E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Soft Sheen XD			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.15E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.15E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Soft Sheen W			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.07E-01	4.16E-01	-1.01E-02	4.27E-04	7.55E-07	3.36E-03	1.57E-04
	Total Market Based Energy	A1-3	4.06E-01	4.15E-01	-9.34E-03	4.29E-04	7.55E-07	3.36E-03	1.58E-04
Construction process stage	Transport	A4	1.25E-02	1.25E-02	3.14E-05	7.40E-06	2.72E-09	3.58E-05	1.16E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.53E-04	7.52E-04	1.34E-06	3.01E-07	1.74E-10	2.13E-06	4.96E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.47E-04	2.45E-04	1.65E-06	5.63E-08	1.21E-10	2.40E-06	1.43E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Soft Sheen W			EP-marine	EP-terrestrial	POCP	ADP-mineral &metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.65E-04	4.13E-03	1.31E-03	6.06E-06	2.61E+00	3.28E-01	2.28E-08
	Total Market Based Energy	A1-3	4.65E-04	4.14E-03	1.31E-03	6.06E-06	2.61E+00	3.28E-01	2.28E-08
Construction process stage	Transport	A4	6.64E-06	7.19E-05	2.70E-05	7.42E-08	1.92E-02	1.20E-03	5.82E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.35E-07	4.72E-06	1.77E-06	2.56E-09	8.69E-04	5.54E-05	4.76E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	9.08E-07	9.96E-06	2.82E-06	4.49E-10	2.87E-04	4.10E-04	5.21E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Soft Sheen W			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.85E-02	7.27E-01	1.84E-09	1.94E-08	2.98E+00
	Total Market Based Energy	A1-3	4.69E-02	7.27E-01	1.84E-09	1.94E-08	2.98E+00
Construction process stage	Transport	A4	1.03E-03	4.41E-03	5.60E-12	3.00E-10	9.85E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.87E-05	3.81E-04	2.43E-13	1.41E-11	9.67E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.81E-05	4.16E-05	8.19E-14	2.47E-12	1.41E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Soft Sheen W			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.88E-01	4.58E-01	8.46E-01	3.36E+00	3.99E+00	7.35E+00
	Total Market Based Energy	A1-3	3.96E-01	4.70E-01	8.66E-01	3.35E+00	3.97E+00	7.31E+00
Construction process stage	Transport	A4	2.91E-03	1.02E-03	3.93E-03	2.51E-02	1.64E-01	1.89E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.23E-04	4.02E-05	1.63E-04	1.11E-03	1.04E-02	1.15E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	9.39E-05	6.73E-05	1.61E-04	4.01E-04	7.46E-03	7.86E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Soft Sheen W			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.65E-02	9.27E-03	7.51E-02	8.03E-03
	Total Market Based Energy	A1-3	5.65E-02	9.27E-03	7.51E-02	8.02E-03
Construction process stage	Transport	A4	2.89E-04	9.02E-05	4.14E-04	2.86E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.16E-05	3.48E-06	1.41E-05	1.32E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.92E-06	2.32E-06	1.08E-06	9.56E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Soft Sheen W			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.56E+00	8.41E-02	4.36E-04
	Total Market Based Energy	A1-3	2.57E+00	8.42E-02	4.24E-04
Construction process stage	Transport	A4	6.10E-03	5.94E-03	4.86E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.56E-04	5.92E-04	2.29E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.99E-05	5.77E-02	1.23E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Soft Sheen W			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.88E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.88E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	5.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Flat Matt XD			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.01E-01	2.14E-01	-1.35E-02	2.67E-04	8.17E-08	1.70E-03	7.11E-05
	Total Market Based Energy	A1-3	2.01E-01	2.13E-01	-1.27E-02	2.69E-04	8.16E-08	1.70E-03	7.12E-05
Construction process stage	Transport	A4	1.22E-02	1.22E-02	3.08E-05	7.26E-06	2.67E-09	3.51E-05	1.14E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.32E-04	7.30E-04	1.30E-06	2.92E-07	1.69E-10	2.07E-06	4.82E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	2.39E-04	2.38E-04	1.60E-06	5.47E-08	1.18E-10	2.33E-06	1.39E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Flat Matt XD			EP-marine	EP-terrestrial	POCP	ADP-mineral &metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.57E-04	2.15E-03	6.92E-04	4.29E-06	1.25E+00	1.56E-01	1.24E-08
	Total Market Based Energy	A1-3	2.57E-04	2.15E-03	6.93E-04	4.29E-06	1.25E+00	1.56E-01	1.24E-08
Construction process stage	Transport	A4	6.51E-06	7.05E-05	2.64E-05	7.28E-08	1.88E-02	1.18E-03	5.70E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	4.22E-07	4.59E-06	1.71E-06	2.49E-09	8.44E-04	5.38E-05	4.62E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.82E-07	9.67E-06	2.74E-06	4.36E-10	2.78E-04	3.98E-04	5.06E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (coninued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Flat Matt XD			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.26E-02	3.62E-01	1.55E-09	1.05E-08	8.46E-01
	Total Market Based Energy	A1-3	2.12E-02	3.62E-01	1.55E-09	1.05E-08	8.47E-01
Construction process stage	Transport	A4	1.01E-03	4.32E-03	5.49E-12	2.94E-10	9.66E-02
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.70E-05	3.70E-04	2.36E-13	1.37E-11	9.39E-03
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.70E-05	4.04E-05	7.95E-14	2.40E-12	1.37E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Flat Matt XD			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.36E-01	3.76E-01	6.12E-01	1.59E+00	2.17E+00	3.76E+00
	Total Market Based Energy	A1-3	2.44E-01	3.87E-01	6.31E-01	1.58E+00	2.15E+00	3.73E+00
Construction process stage	Transport	A4	2.85E-03	9.99E-04	3.85E-03	2.47E-02	1.60E-01	1.85E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.19E-04	3.90E-05	1.58E-04	1.08E-03	1.01E-02	1.11E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	9.12E-05	6.54E-05	1.57E-04	3.90E-04	7.24E-03	7.63E-03
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Flat Matt XD			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.29E-02	3.78E-03	2.71E-02	3.76E-03
	Total Market Based Energy	A1-3	4.29E-02	3.78E-03	2.71E-02	3.75E-03
Construction process stage	Transport	A4	2.83E-04	8.84E-05	4.05E-04	2.81E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.13E-05	3.38E-06	1.37E-05	1.28E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.72E-06	2.25E-06	1.05E-06	9.28E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Flat Matt XD			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.70E-01	5.38E-02	1.96E-04
	Total Market Based Energy	A1-3	5.70E-01	5.38E-02	1.85E-04
Construction process stage	Transport	A4	5.98E-03	5.82E-03	4.76E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.48E-04	5.74E-04	2.22E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	6.79E-05	5.61E-02	1.19E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Flat Matt XD			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	9.26E-03	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	9.26E-03	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	9.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
Flat Matt W			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg P eq
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.91E-01	4.01E-01	-1.09E-02	4.32E-04	1.27E-07	2.54E-03	1.69E-04
	Total Market Based Energy	A1-3	3.90E-01	4.00E-01	-1.02E-02	4.34E-04	1.27E-07	2.54E-03	1.69E-04
Construction process stage	Transport	A4	1.34E-02	1.33E-02	3.36E-05	7.93E-06	2.92E-09	3.84E-05	1.25E-06
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	9.69E-04	9.67E-04	1.72E-06	3.87E-07	2.24E-10	2.74E-06	6.38E-08
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.17E-04	3.15E-04	2.12E-06	7.25E-08	1.56E-10	3.09E-06	1.84E-08
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
GWP-biogenic = Global warming potential, biogenic;
GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
AP = Acidification potential, accumulated exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

Flat Matt W			EP-marine	EP-terrestrial	POCP	ADP-mineral&metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.61E-04	3.94E-03	1.23E-03	5.67E-06	2.44E+00	2.84E-01	2.07E-08
	Total Market Based Energy	A1-3	4.61E-04	3.95E-03	1.23E-03	5.67E-06	2.44E+00	2.84E-01	2.07E-08
Construction process stage	Transport	A4	7.11E-06	7.70E-05	2.89E-05	7.96E-08	2.06E-02	1.29E-03	6.24E-10
	Construction	A5	MND	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	5.59E-07	6.08E-06	2.27E-06	3.29E-09	1.12E-03	7.13E-05	6.12E-11
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.17E-06	1.28E-05	3.62E-06	5.78E-10	3.69E-04	5.27E-04	6.71E-11
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Depletion potential of the stratospheric ozone layer;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
Flat Matt W			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	4.78E-02	6.37E-01	1.75E-09	1.78E-08	3.23E+00
	Total Market Based Energy	A1-3	4.62E-02	6.37E-01	1.75E-09	1.78E-08	3.23E+00
Construction process stage	Transport	A4	1.11E-03	4.72E-03	6.00E-12	3.21E-10	1.06E-01
	Construction	A5	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	7.56E-05	4.91E-04	3.12E-13	1.82E-11	1.24E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.91E-05	5.36E-05	1.05E-13	3.17E-12	1.82E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

Flat Matt W			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	3.77E-01	4.34E-01	8.10E-01	3.16E+00	3.95E+00	7.11E+00
	Total Market Based Energy	A1-3	3.84E-01	4.45E-01	8.29E-01	3.14E+00	3.93E+00	7.07E+00
Construction process stage	Transport	A4	3.12E-03	1.09E-03	4.21E-03	2.70E-02	1.75E-01	2.02E-01
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.58E-04	5.17E-05	2.09E-04	1.43E-03	1.33E-02	1.48E-02
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.21E-04	8.66E-05	2.07E-04	5.16E-04	9.59E-03	1.01E-02
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
PERM = Use of renewable primary energy resources used as raw materials;
PERT = Total use of renewable primary energy resources;
PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
PENRM = Use of non-renewable primary energy resources used as raw materials;
PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
Flat Matt W			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	5.49E-02	9.19E-03	5.74E-02	6.94E-03
	Total Market Based Energy	A1-3	5.49E-02	9.19E-03	5.74E-02	6.94E-03
Construction process stage	Transport	A4	3.10E-04	9.67E-05	4.43E-04	3.07E-05
	Construction	A5	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.50E-05	4.48E-06	1.82E-05	1.70E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	8.91E-06	2.99E-06	1.39E-06	1.23E-05
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
Flat Matt W			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	2.75E+00	5.73E-02	4.33E-04
	Total Market Based Energy	A1-3	2.75E+00	5.73E-02	4.21E-04
Construction process stage	Transport	A4	6.54E-03	6.37E-03	5.21E-06
	Construction	A5	MND	MND	MND
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	MND	MND	MND
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.29E-04	7.61E-04	2.94E-07
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	9.00E-05	7.43E-02	1.58E-07
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
Flat Matt W			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	AGG	AGG	AGG	AGG	AGG	AGG
	Transport	A2	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Consumption Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Manufacturing (Market Energy)	A3	AGG	AGG	AGG	AGG	AGG	AGG
	Total (Consumption Based Energy)	A1-3	8.83E-03	1.86E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
	Total Market Based Energy	A1-3	8.83E-03	1.86E-02	0.00E+00	0.00E+00	0.00E+00	1.18E-02
Construction process stage	Transport	A4	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	MND	MND	MND	MND	MND	MND
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	MND	MND	MND	MND	MND	MND
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
A4 – Transport to the building site	The distribution scenario considers that the product is mainly distributed in the UK.		
	Fuel type / Vehicle type	Litre of fuel type per distance or vehicle type	Diesel Lorry 3.5-7.5 metric ton, EURO VI
	Distance:	km	160
	Capacity utilisation (incl. empty returns)	%	Assumed by ecoinvent v3.8
	Bulk density of transported products	kg/m^3	325-358
C1 to C4 End of life	The paint as dry film is collected as mixed construction waste, together with the substrate.		
	Collection process as mixed construction waste	%	100%
	Disposal. 100% Landfill	kg/m^2	0.040-0.074
	Assumptions for scenario development: Waste transported to management	km	80
Module D Potential benefits and loads beyond the system boundaries	Recycled content of product	kg	0
	Recovered for recycling	kg	0
	Recovered for re-use	kg	0
	Recovered for energy	kg	0

Summary, comments and additional information

Interpretation

The LCA results show that the impact comes mainly from A1-A3 Product stage, specially from the raw materials obtention and the product packaging. As the EPD considers the product delivered in a 1L can as a conservative approach, the smallest format, the packaging is also a relevant process in terms of environmental impact.
The end of life represents less than 1% of the product impact for all impact categories and indicators, with the exception of the non-hazardous waste disposed (NHWD) indicator, as the paint as dry film becomes a waste at this stage and is assumed to be disposed (conservative approach).

Additional information on emissions to indoor air, soil and water during the use stage

Designed with health in mind with low VOC, near-zero Odour, 100% water-based, and Animal Cruelty Free. Child Safe and Pet Safe Certified too.

The VOC's present in the paints are high boiling point solvents which boil at >200ºC and they are therefore not volatile. Therefore they are present in the formulation but are not considered volatiles that produce emissions to indoor air.

Additional information

We deliver our product direct to consumer with DPD which provides CO2-neutral deliveries by offsetting (CO2logic certificate number 21/267).

Usually when using the product a small amount of leftover paint remains in the tin. COAT offers take back scheme to recycle this unused paint and other empty cans. Tins, handles and excess paint are all re-cycled and re-processed.

References

BSI. Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products. BS EN 15804:2012+A2:2019. London, BSI, 2020.

BSI. Environmental labels and declarations – Type III Environmental declarations – Principles and procedures. BS EN ISO 14025:2010 (exactly identical to ISO 14025:2006). London, BSI, 2010.

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BS EN ISO 14040:2006. London, BSI, 2006.

BSI. Environmental management – Life cycle assessment – requirements and guidelines.
BS EN ISO 14044:2006. London, BSI, 2006.