



Crate Divide - CRT2BMFDB

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
TFL	24.80	99.52
Steel	0.02	0.08
Aluminum Extrusion	0.10	0.40

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	21.94
Recycled Content (% By Weight):	45.00
Total Energy Consumption (Mj):	937.24
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044. All the Life Cycle Analysis data has been compiled, processed and verified by Oakdene Hollins Ltd.

Compilation and processing of LCA data performed by Dr. Dan Skinner (Oakdene Hollins Ltd.)

Verification of LCA and environmental data performed by Dr. Adrian Chapman (Oakdene Hollins Ltd.)

Sustain

The Senator Group has for many years acknowledged that the key word upon which to focus our attention is Sustainability rather than Recyclability in pure isolation.

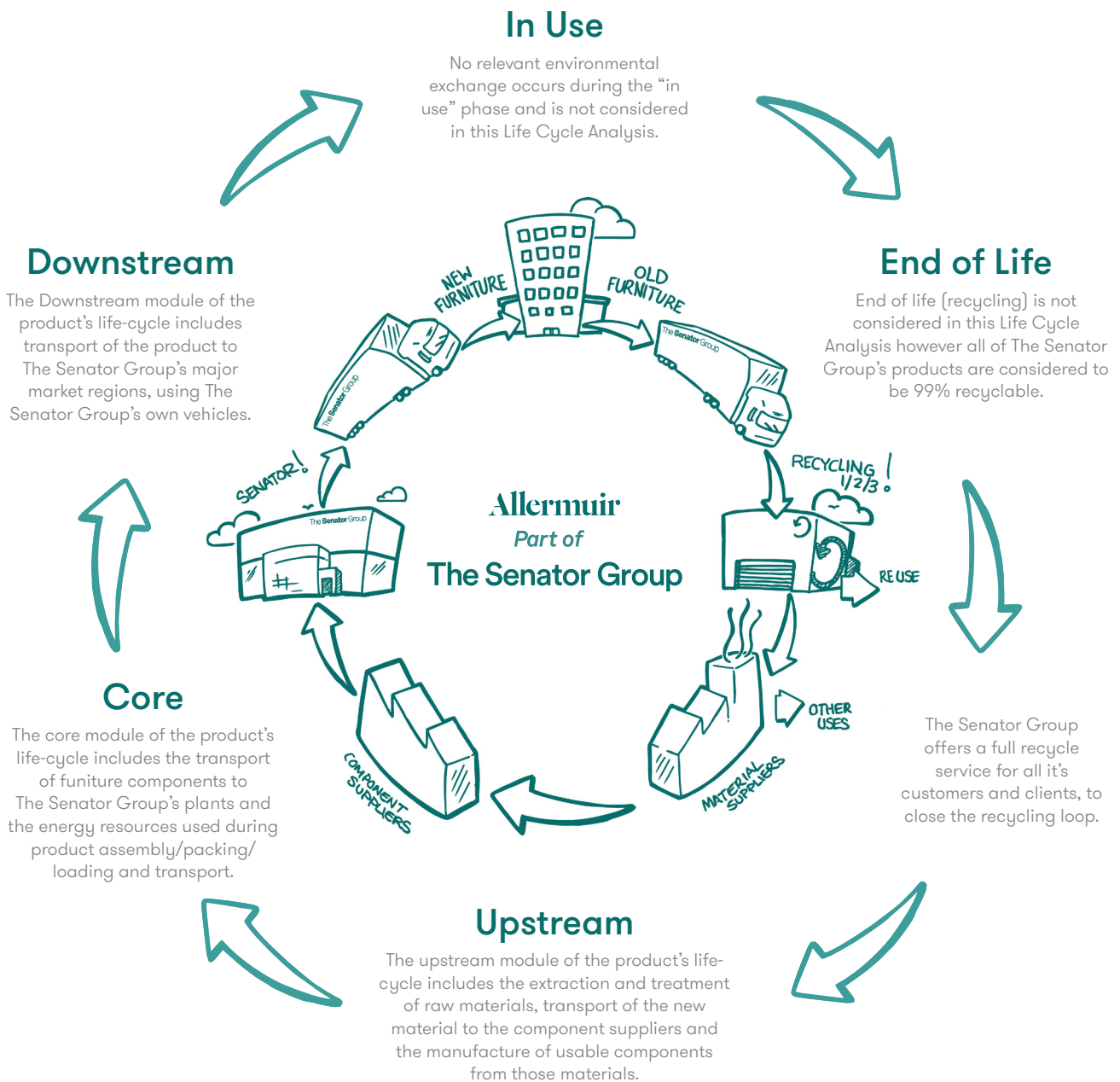
Our business takes a truly holistic approach to the design, manufacture, supply and reclamation of our products. We see this as a cyclical process.

From design to manufacture, use and reclamation we aspire to minimise all environmental impacts of The Senator Group's products and processes.

We harvest the resources back from the retired products then

remanufacture or reintroduce the materials into our component manufacturers supply chain.

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or abdicating our responsibilities by offsetting. The process of Sustainability is a cyclical one we understand this and we actively pursue this in everything that we do.



System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	42.80	1.33	0.00	44.13
From the Ground	6.02	17.86	1.17	25.05
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	474.99	14.65	0.03	489.67
Hydro	3.65	4.23	0.14	8.02
Solar	0.01	0.00	0.00	0.01
Wind	0.46	1.40	0.01	1.87
Non-Renewable Energy (MJ)	201.82	222.22	13.63	437.67
Total	680.93	242.50	13.81	937.24

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	8.81	12.33	0.80	21.94
Acidification (Kg SO2 Equivalents)	0.04	0.05	0.00	0.09
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.01	0.00	0.00	0.01

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	12.34	233.75	78.31	324.40
To the Ground	0.01	0.03	0.01	0.04
To the Water	0.67	4.64	1.16	6.48

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	45.00	45.00
Total		45.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
Occupational Health & Safety Management	ISO 45001	Certified 2021



All UK manufacturing Sites are accredited to ISO standards, 9001, 14001 and 45001. In addition to this the Global Headquarters is also accredited to Chain of Custody. We can provide FSC ® certified products upon request

FISP (Furniture Industry Sustainability Programme)

Awarded by FIRA, this sustainability certificate is designed to monitor all sustainability aspects of a company’s facilities and operations. The Senator Group achieved one of the first sustainability certifications within the furniture industry – a public declaration of our commitment to improving our performance in every possible way.

Environmental Management

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Chain of Custody

Independent certification to prove The Senator Group only purchases MFC/ MDF/Chipboard from manufacturers who can prove they purchase their raw wood from sustainable sources.

Energy Management:

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually minimise energy usage. We believe The Senator Group was the first company in the furniture industry to achieve this standard.

The Three R’s

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Assessment Considerations

The following necessary assumptions and considerations were made during the course of the Life-Cycle Analysis:

- Manufacture of the furniture components was assumed to take place in the same factory in which the raw materials were processed, due to a lack of case-specific data.
- The transport of all materials, components and finished products was assumed to be via 16-32t Euro 6 lorries.
- All LCA data was modelled using the IMPACT 2002+ (v2.06) method.



Crate Divide - CRT3H4BMMWS

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Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
ABS	0.12	0.06
Nylon 6	0.33	0.18
TFL	140.00	75.66
MDF	23.00	12.43
Steel	21.10	11.40
Zinc Castings	0.48	0.26

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	151.83
Recycled Content (% By Weight):	45.10
Total Energy Consumption (Mj):	6334.15
Recyclability (% By Weight):	99.00

Date of Production: July 2023

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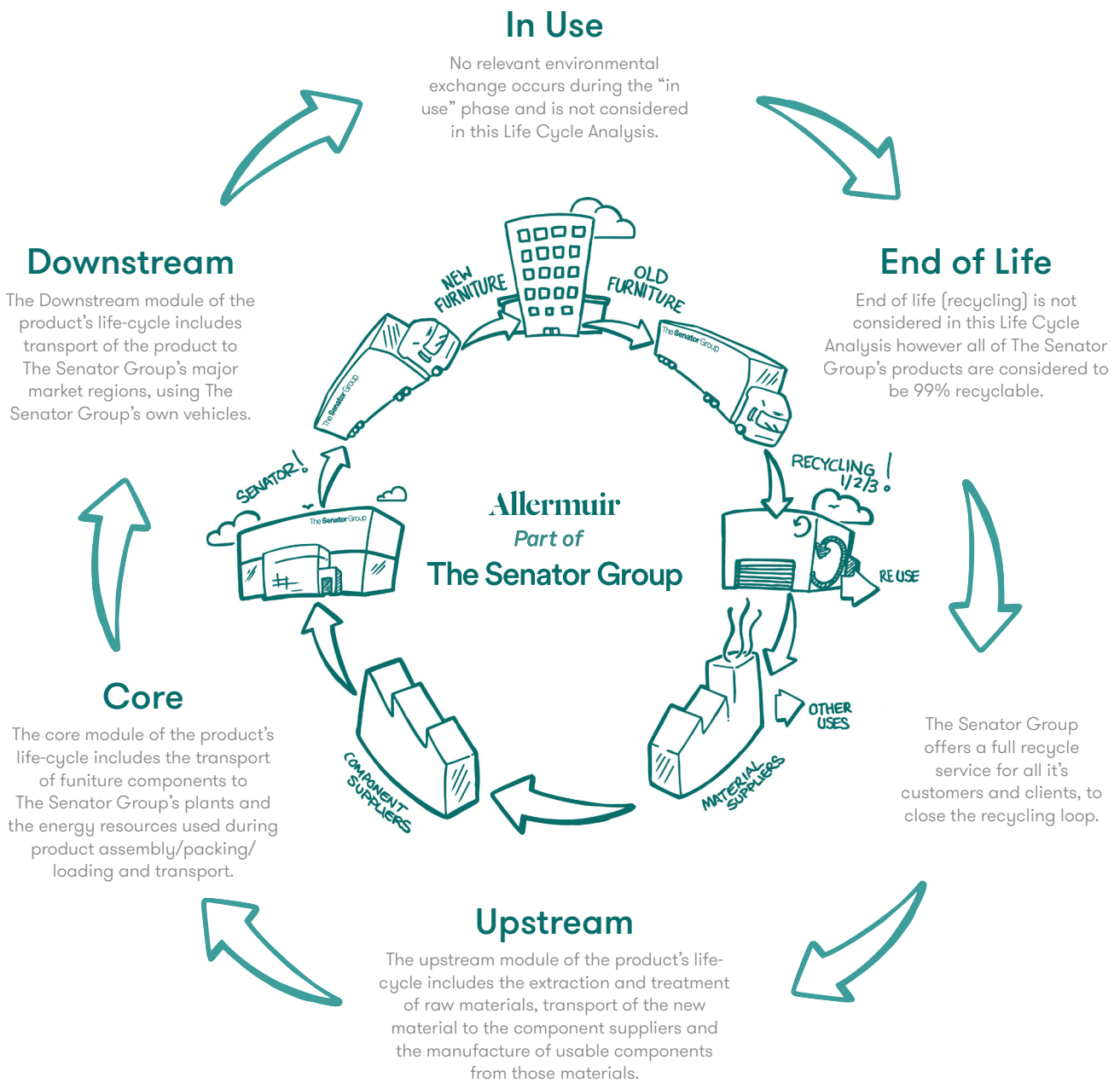
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	295.68	1.37	0.02	297.07
From the Ground	111.30	36.57	8.65	156.52
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	3280.29	15.06	0.19	3295.54
Hydro	67.08	6.55	1.07	74.70
Solar	0.10	0.00	0.00	0.10
Wind	6.57	1.50	0.05	8.12
Non-Renewable Energy (MJ)	2413.38	441.12	101.19	2955.69
Total	5767.42	464.23	102.50	6334.15

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	120.71	25.18	5.94	151.83
Acidification (Kg SO2 Equivalents)	0.57	0.11	0.03	0.71
Eutrophication (Kg PO43 Equivalents)	0.05	0.00	0.00	0.05
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.06	0.01	0.00	0.07

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	150.56	1491.64	581.47	2223.68
To the Ground	0.12	0.17	0.07	0.036
To the Water	15.38	23.33	8.64	47.34

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	45.00	34.20
MDF	45.00	5.40
Steel	50.00	5.50
Total		50.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
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Environmental Management

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Assessment Considerations

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Crate Divide - CRT3H4BS

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Product Summary

Scope of Assessment:

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Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Nylon 6	0.33	0.29
TFL	78.00	68.96
Steel	33.90	29.97
Zinc Castings	0.88	0.78

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	139.44
Recycled Content (% By Weight):	46.05
Total Energy Consumption (Mj):	4115.62
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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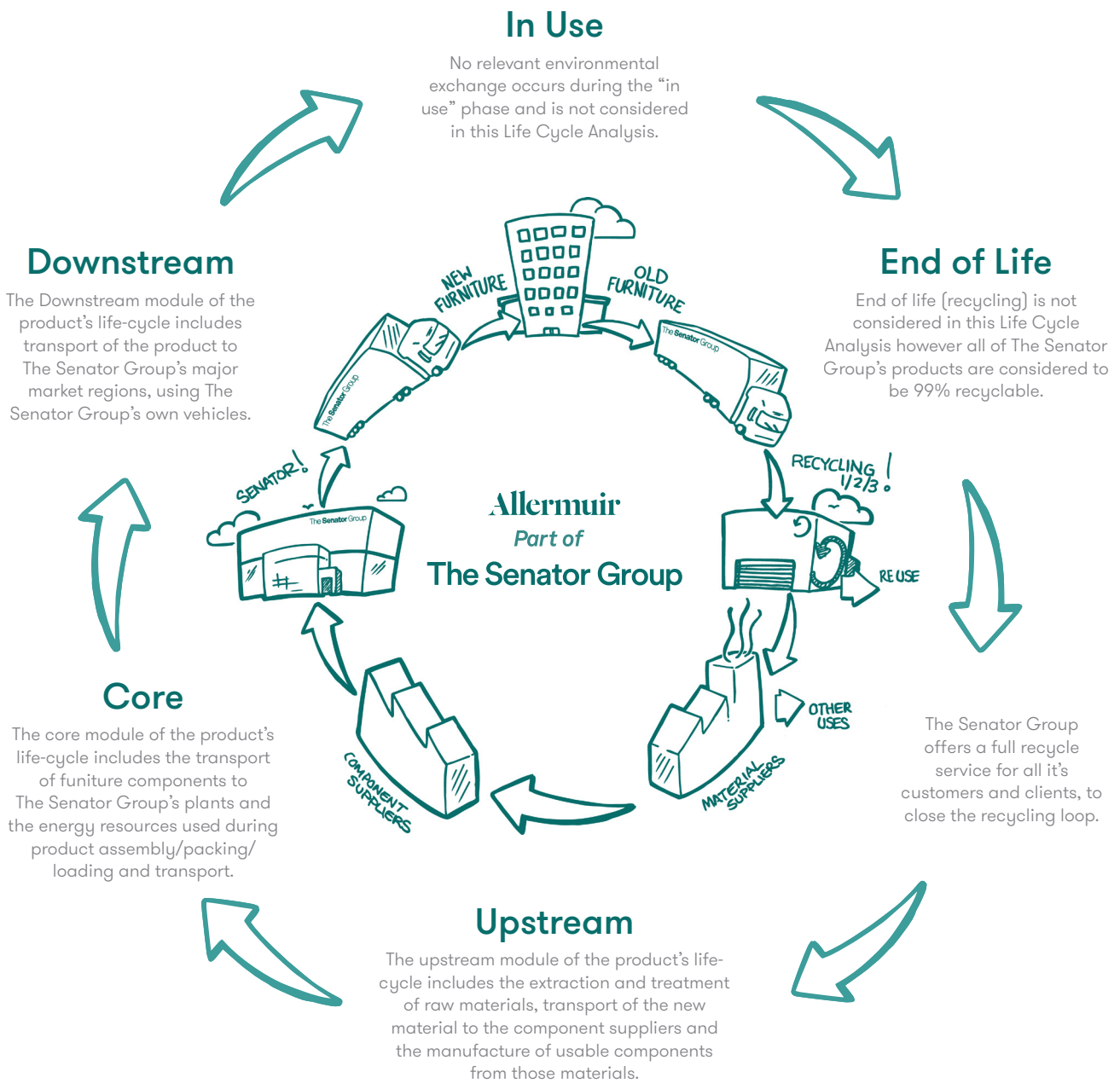
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	136.22	1.35	0.01	137.58
From the Ground	128.83	28.17	5.29	162.29
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1509.81	14.88	0.12	1524.81
Hydro	75.57	5.51	0.65	81.73
Solar	0.09	0.00	0.00	0.09
Wind	6.24	1.45	0.03	7.72
Non-Renewable Energy (MJ)	2096.62	342.79	61.86	2501.27
Total	3688.33	364.63	62.66	4115.62

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	116.40	19.41	3.63	139.44
Acidification (Kg SO2 Equivalents)	0.58	0.08	0.02	0.68
Eutrophication (Kg PO43 Equivalents)	0.07	0.00	0.00	0.07
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.05	0.00	0.00	0.05

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	130.60	926.61	355.46	1412.66
To the Ground	0.12	0.11	0.04	0.27
To the Water	19.53	14.93	5.28	39.74

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	45.00	31.05
Steel	50.00	15.00
Total		50.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Crate Divide - CRT5H90-KD

Design by Allermuir

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Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
NYLON 6	0.02	0.11
Steel	17.70	99.89

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	56.57
Recycled Content (% By Weight):	50.00
Total Energy Consumption (Mj):	1012.86
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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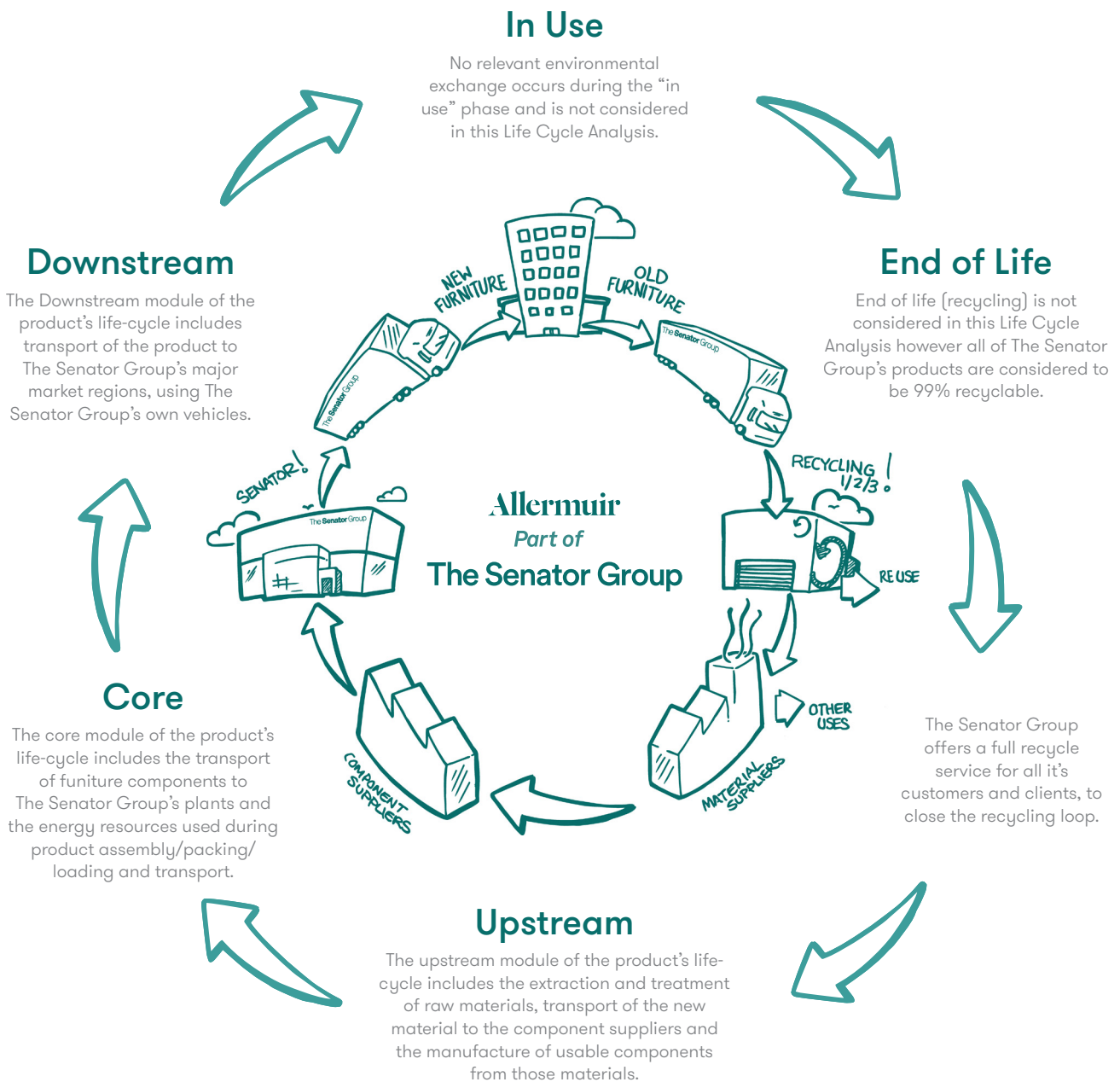
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.83	1.32	0.00	2.15
From the Ground	55.13	17.01	0.83	72.97
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	8.08	14.63	0.02	22.73
Hydro	31.17	4.13	0.10	35.40
Solar	0.04	0.00	0.00	0.04
Wind	2.48	1.40	0.00	3.88
Non-Renewable Energy (MJ)	728.74	212.38	9.69	950.81
Total	770.51	232.54	9.81	1012.86

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	44.25	11.75	0.57	56.57
Acidification (Kg SO2 Equivalents)	0.18	0.04	0.00	0.22
Eutrophication (Kg PO43 Equivalents)	0.01	0.00	0.00	0.01
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.01	0.00	0.00	0.01

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	46.06	177.18	55.69	278.93
To the Ground	0.05	0.02	0.01	0.08
To the Water	6.23	3.80	0.83	10.86

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	50.00	50.00
Total		50.00

Certificates

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Crate Divide - CRT5HE

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Nylon 6	0.01	0.16
Steel	6.30	99.84

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	26.80
Recycled Content (% By Weight):	50.00
Total Energy Consumption (Mj):	494.92
Recyclability (% By Weight):	99.00

Date of Production: July 2023

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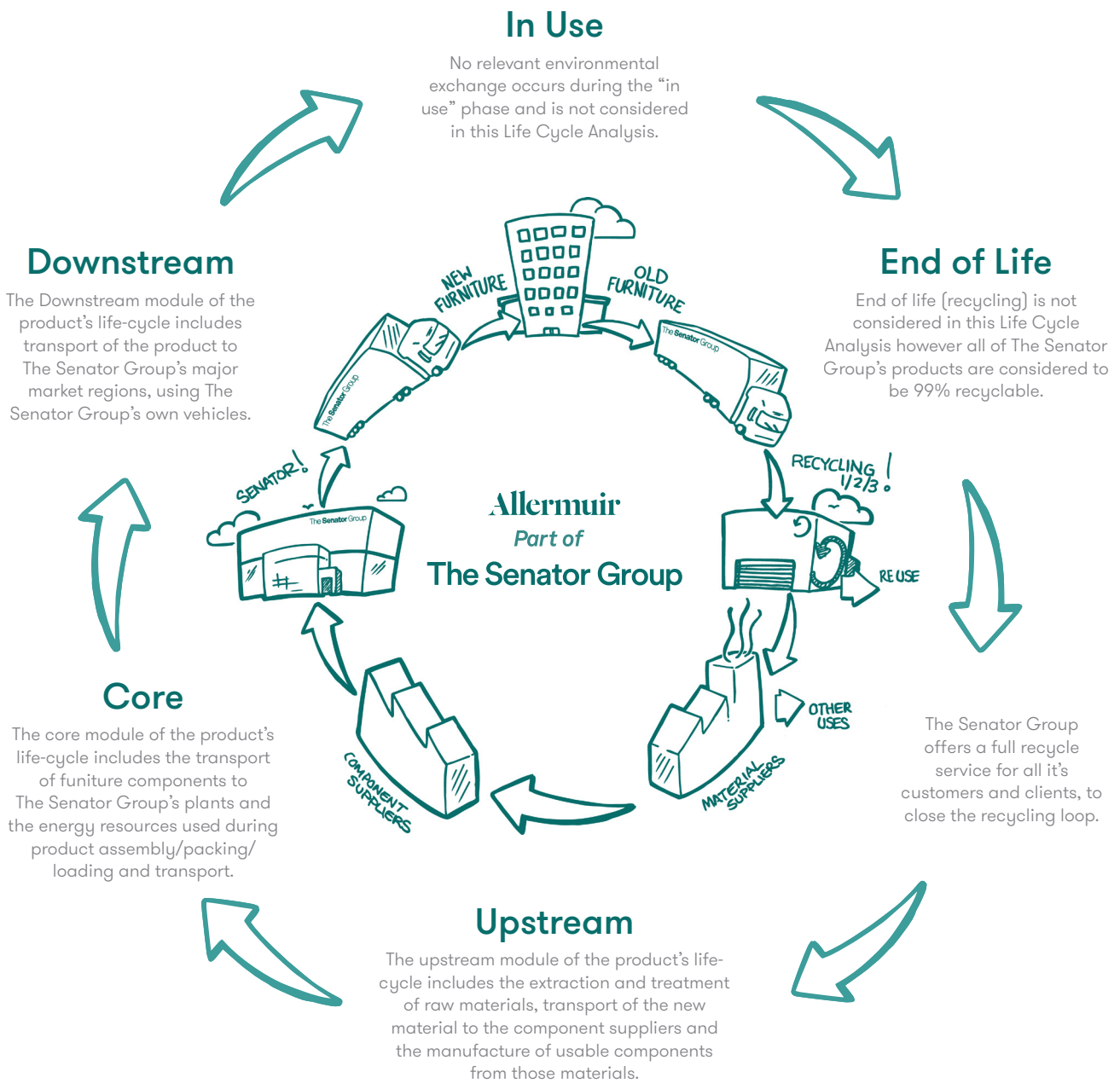
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.29	1.32	0.00	1.61
From the Ground	19.63	15.68	0.30	35.61
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	2.88	14.60	0.01	17.49
Hydro	11.10	3.96	0.04	15.10
Solar	0.01	0.00	0.00	0.01
Wind	0.88	1.39	0.00	2.27
Non-Renewable Energy (MJ)	259.82	196.78	3.45	460.05
Total	274.69	216.73	3.50	494.92

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	15.77	10.83	0.20	26.80
Acidification (Kg SO2 Equivalents)	0.06	0.04	0.00	0.10
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.00	0.00	0.00	0.00

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	16.41	87.54	19.83	123.78
To the Ground	0.02	0.01	0.00	0.03
To the Water	2.22	2.47	0.29	4.98

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Steel	50.00	50.00
Total		50.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
Occupational Health & Safety Management	ISO 45001	Certified 2021



All UK manufacturing Sites are accredited to ISO standards, 9001, 14001 and 45001. In addition to this the Global Headquarters is also accredited to Chain of Custody. We can provide FSC © certified products upon request

FISP (Furniture Industry Sustainability Programme)

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Environmental Management

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Chain of Custody

Independent certification to prove The Senator Group only purchases MFC/ MDF/Chipboard from manufacturers who can prove they purchase their raw wood from sustainable sources.

Energy Management:

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually minimise energy usage. We believe The Senator Group was the first company in the furniture industry to achieve this standard.

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Assessment Considerations

The following necessary assumptions and considerations were made during the course of the Life-Cycle Analysis:

- Manufacture of the furniture components was assumed to take place in the same factory in which the raw materials were processed, due to a lack of case-specific data.
- The transport of all materials, components and finished products was assumed to be via 16-32t Euro 6 lorries.
- All LCA data was modelled using the IMPACT 2002+ (v2.06) method.



Crate Divide - CRT5HM

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Nylon 6	0.01	0.16
Steel	6.30	99.84

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	26.80
Recycled Content (% By Weight):	50.00
Total Energy Consumption (Mj):	494.92
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044. All the Life Cycle Analysis data has been compiled, processed and verified by Oakdene Hollins Ltd.

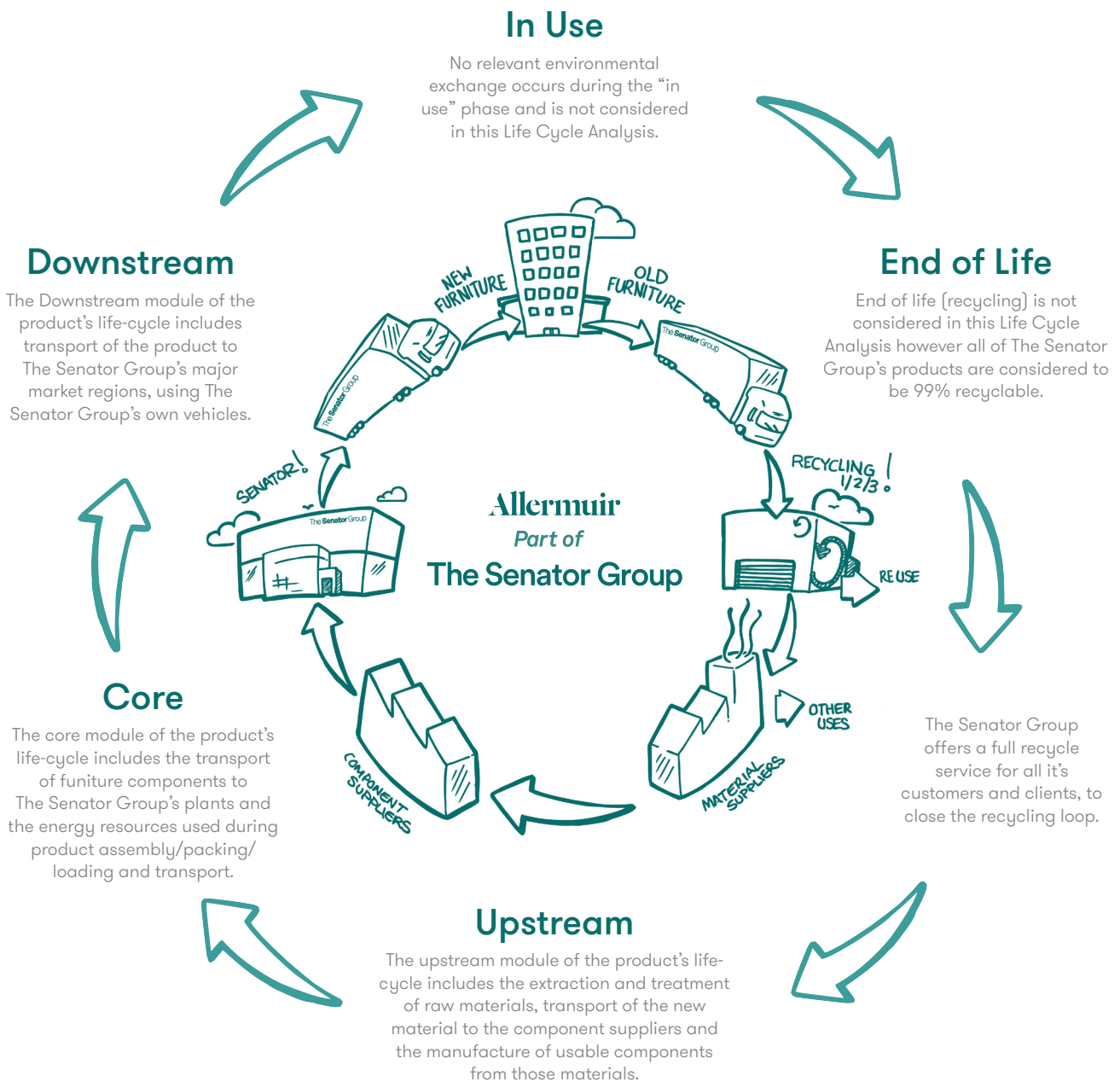
Compilation and processing of LCA data performed by Dr. Dan Skinner (Oakdene Hollins Ltd.)

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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.29	1.32	0.00	1.61
From the Ground	19.63	15.68	0.30	35.61
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	2.88	14.60	0.01	17.49
Hydro	11.10	3.96	0.04	15.10
Solar	0.01	0.00	0.00	0.01
Wind	0.88	1.39	0.00	2.27
Non-Renewable Energy (MJ)	259.82	196.78	3.45	460.05
Total	274.69	216.73	3.50	494.92

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	15.77	10.83	0.20	26.80
Acidification (Kg SO2 Equivalents)	0.06	0.04	0.00	0.10
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.00	0.00	0.00	0.00

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	16.41	87.54	19.83	123.78
To the Ground	0.02	0.01	0.00	0.03
To the Water	2.22	2.47	0.29	4.98

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Steel	50.00	50.00
Total		50.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Environmental Management

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Chain of Custody

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Energy Management:

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Assessment Considerations

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Crate Divide - CRT6DCB-KD

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Steel	4.04	96.19
Zinc Castings	0.16	3.81

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	21.23
Recycled Content (% By Weight):	48.00
Total Energy Consumption (Mj):	398.17
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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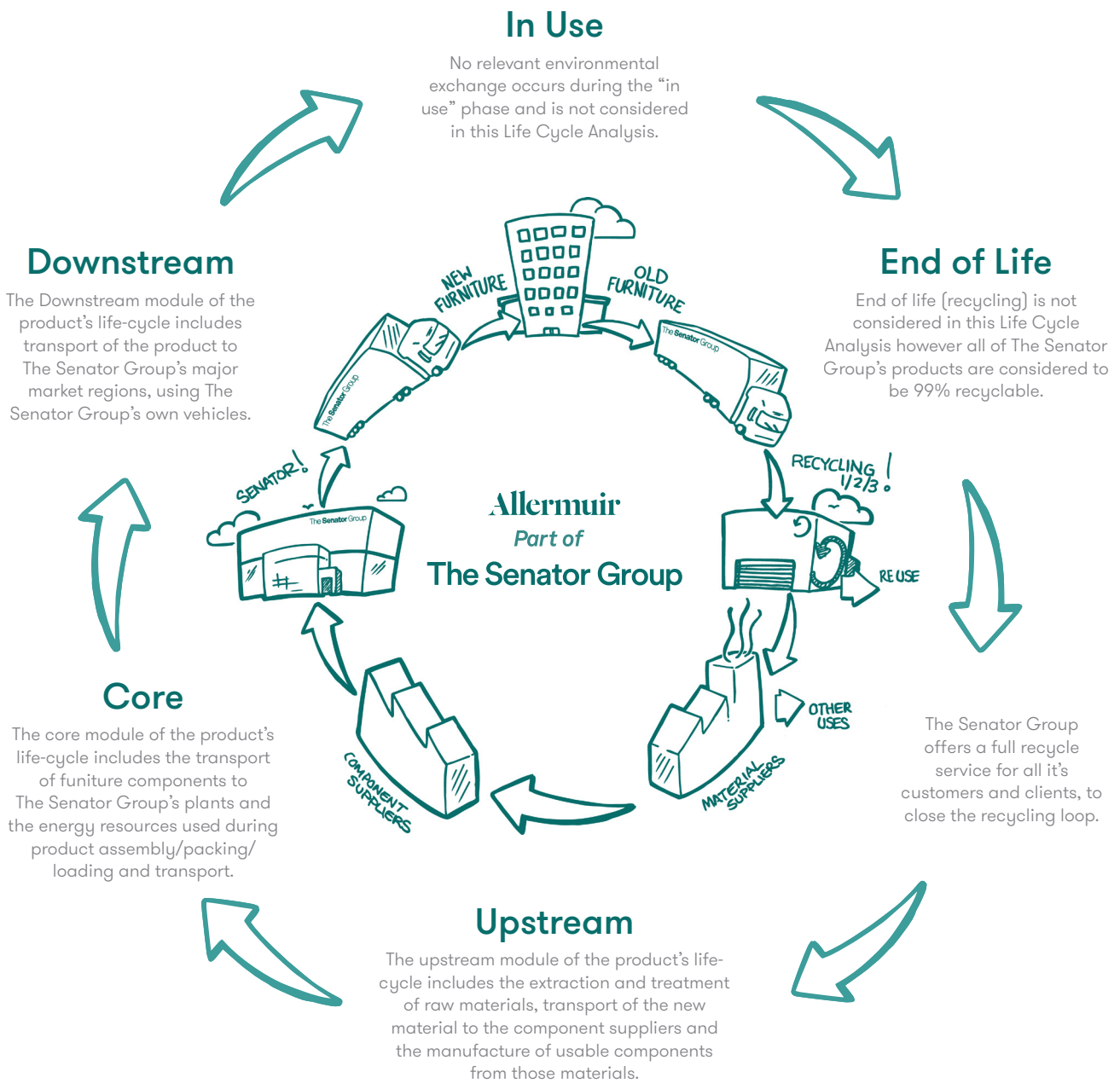
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.20	1.32	0.00	1.52
From the Ground	13.30	15.43	0.20	28.93
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1.92	14.60	0.00	16.52
Hydro	7.97	3.93	0.02	11.92
Solar	0.01	0.00	0.00	0.01
Wind	0.58	1.39	0.00	1.97
Non-Renewable Energy (MJ)	171.56	193.89	2.30	367.75
Total	182.04	213.81	2.32	398.17

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	10.44	10.66	0.13	21.23
Acidification (Kg SO2 Equivalents)	0.06	0.04	0.00	0.10
Eutrophication (Kg PO43 Equivalents)	0.01	0.00	0.00	0.01
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.00	0.00	0.00	0.00

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	10.88	70.96	13.20	95.04
To the Ground	0.01	0.01	0.00	0.02
To the Water	2.42	2.22	0.20	4.84

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	50.00	48.00
Total		48.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
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Environmental Management

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Crate Divide - CRT12CB-KD

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Steel	5.08	94.07
Zinc Castings	0.32	5.93

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	24.33
Recycled Content (% By Weight):	47.00
Total Energy Consumption (Mj):	452.46
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044. All the Life Cycle Analysis data has been compiled, processed and verified by Oakdene Hollins Ltd.

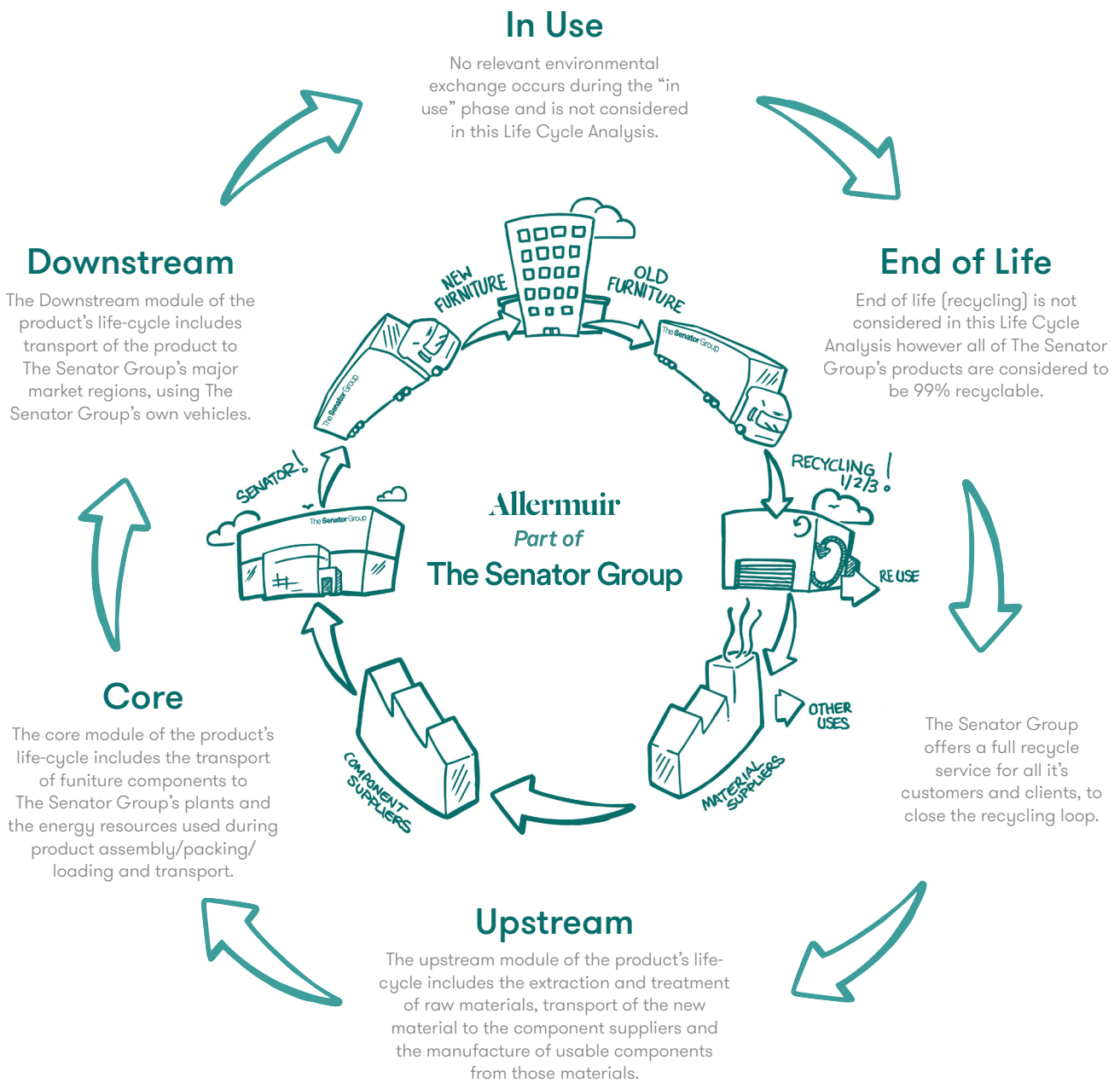
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.25	1.32	0.00	1.57
From the Ground	17.27	15.57	0.25	33.09
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	2.47	14.60	0.01	17.08
Hydro	10.66	3.95	0.03	14.64
Solar	0.01	0.00	0.00	0.01
Wind	0.74	1.39	0.00	2.13
Non-Renewable Energy (MJ)	220.12	195.53	2.95	418.60
Total	234.00	215.47	2.99	452.46

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	13.40	10.76	0.17	24.33
Acidification (Kg SO2 Equivalents)	0.08	0.04	0.00	0.12
Eutrophication (Kg PO43 Equivalents)	0.02	0.00	0.00	0.02
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.00	0.00	0.00	0.00

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	13.97	80.39	16.97	111.33
To the Ground	0.02	0.01	0.00	0.03
To the Water	3.79	2.36	0.25	6.40

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	50.00	47.00
Total		47.00

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
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Environmental Management

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Chain of Custody

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Crate Divide - CRTCDY

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
ABS	0.40	2.27
Solid Wood	0.21	1.19
Steel	17.00	96.54

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	56.73
Recycled Content (% By Weight):	48.50
Total Energy Consumption (Mj):	1036.09
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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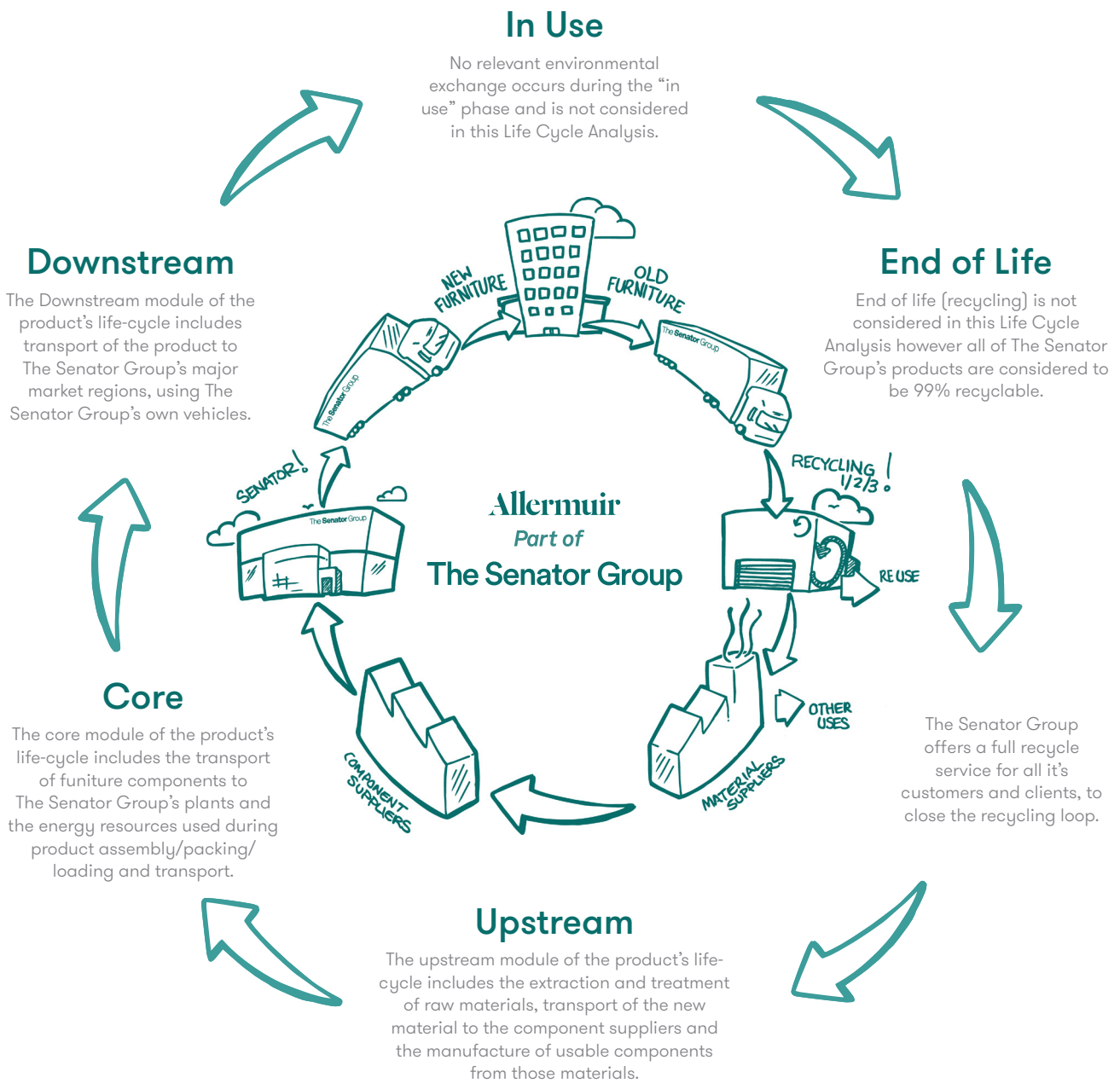
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	1.20	1.32	0.00	2.52
From the Ground	53.95	17.00	0.82	71.77
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	12.29	14.63	0.02	26.94
Hydro	30.36	4.13	0.10	34.59
Solar	0.04	0.00	0.00	0.04
Wind	2.43	1.40	0.01	3.83
Non-Renewable Energy (MJ)	748.83	212.23	9.63	970.69
Total	793.95	232.39	9.75	1036.09

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	44.42	11.74	0.57	56.73
Acidification (Kg SO2 Equivalents)	0.18	0.04	0.00	0.22
Eutrophication (Kg PO43 Equivalents)	0.01	0.00	0.00	0.01
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.01	0.00	0.00	0.01

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	46.18	176.32	55.34	277.83
To the Ground	0.05	0.02	0.01	0.08
To the Water	6.09	3.79	0.82	10.70

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Steel	50.00	48.50
Total		48.50

Certificates

Description	Accreditation	First Certified
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Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
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Environmental Management

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Chain of Custody

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Assessment Considerations

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Crate Divide - CRTHCDM2FD

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

Pre-built components can be connected together in-line or at right angles to create different zones within existing spaces.

Product Summary

Scope of Assessment:

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Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Acrylic Sheet	20.90	22.98
Nylon 6	0.03	0.03
TFL	52.00	57.17
Steel	17.50	19.24
Zinc Castings	0.32	0.35
Aluminum Extrusion	0.20	0.22

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	264.40
Recycled Content (% By Weight):	35.15
Total Energy Consumption (Mj):	6310.41
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044. All the Life Cycle Analysis data has been compiled, processed and verified by Oakdene Hollins Ltd.

Compilation and processing of LCA data performed by Dr. Dan Skinner (Oakdene Hollins Ltd.)

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Sustain

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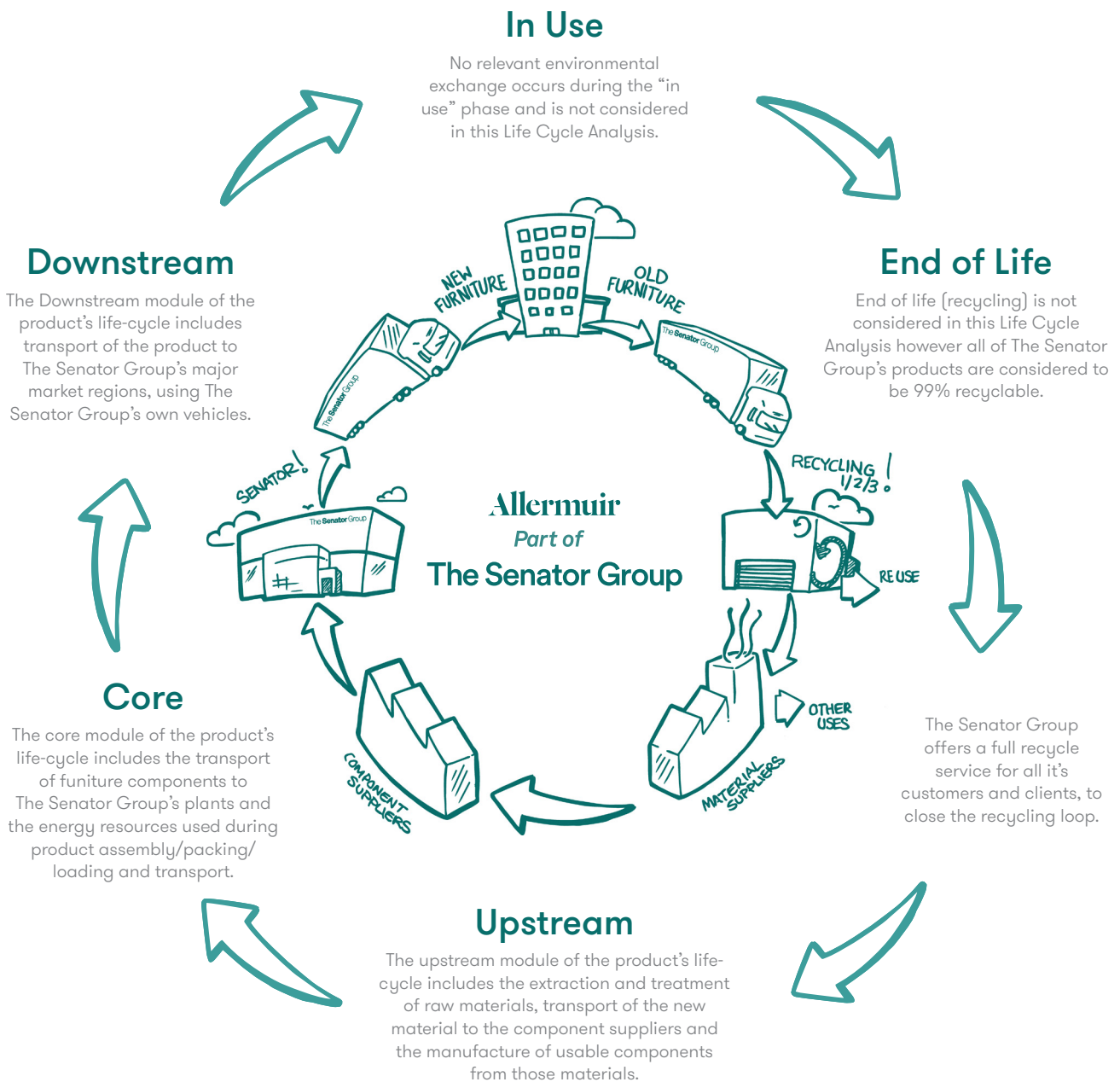
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	92.40	1.34	0.01	93.75
From the Ground	119.43	25.58	4.25	149.26
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1033.76	14.82	0.09	1048.67
Hydro	73.67	5.19	0.53	79.39
Solar	0.09	0.00	0.00	0.09
Wind	5.97	1.44	0.02	7.43
Non-Renewable Energy (MJ)	4812.60	312.49	49.74	5174.83
Total	5926.09	333.94	50.38	6310.41

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	243.85	17.63	2.92	264.60
Acidification (Kg SO2 Equivalents)	1.23	0.07	0.01	1.31
Eutrophication (Kg PO4 ³ Equivalents)	0.05	0.00	0.00	0.05
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.23	0.01	0.00	0.24

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	248.30	752.51	285.82	1286.62
To the Ground	0.08	0.09	0.03	0.20
To the Water	14.71	12.35	4.25	31.30

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	45.00	25.65
Steel	50.00	9.50
Total		35.15

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
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Crate Divide - CRTLCDMSFD

Design by Allermuir

A cube based modular storage system with a prime function to act as a room divider. Create spaces using the modular design of Crate.

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Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use during the core module. All secondary data was obtained from the EcolInvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
Acrylic Sheet	20.90	30.94
Nylon 6	0.03	0.04
TFL	29.20	43.23
Steel	17.00	25.17
Zinc Castings	0.32	0.47
Aluminum Extrusion	0.10	0.15

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	252.46
Recycled Content (% By Weight):	31.85
Total Energy Consumption (Mj):	5617.93
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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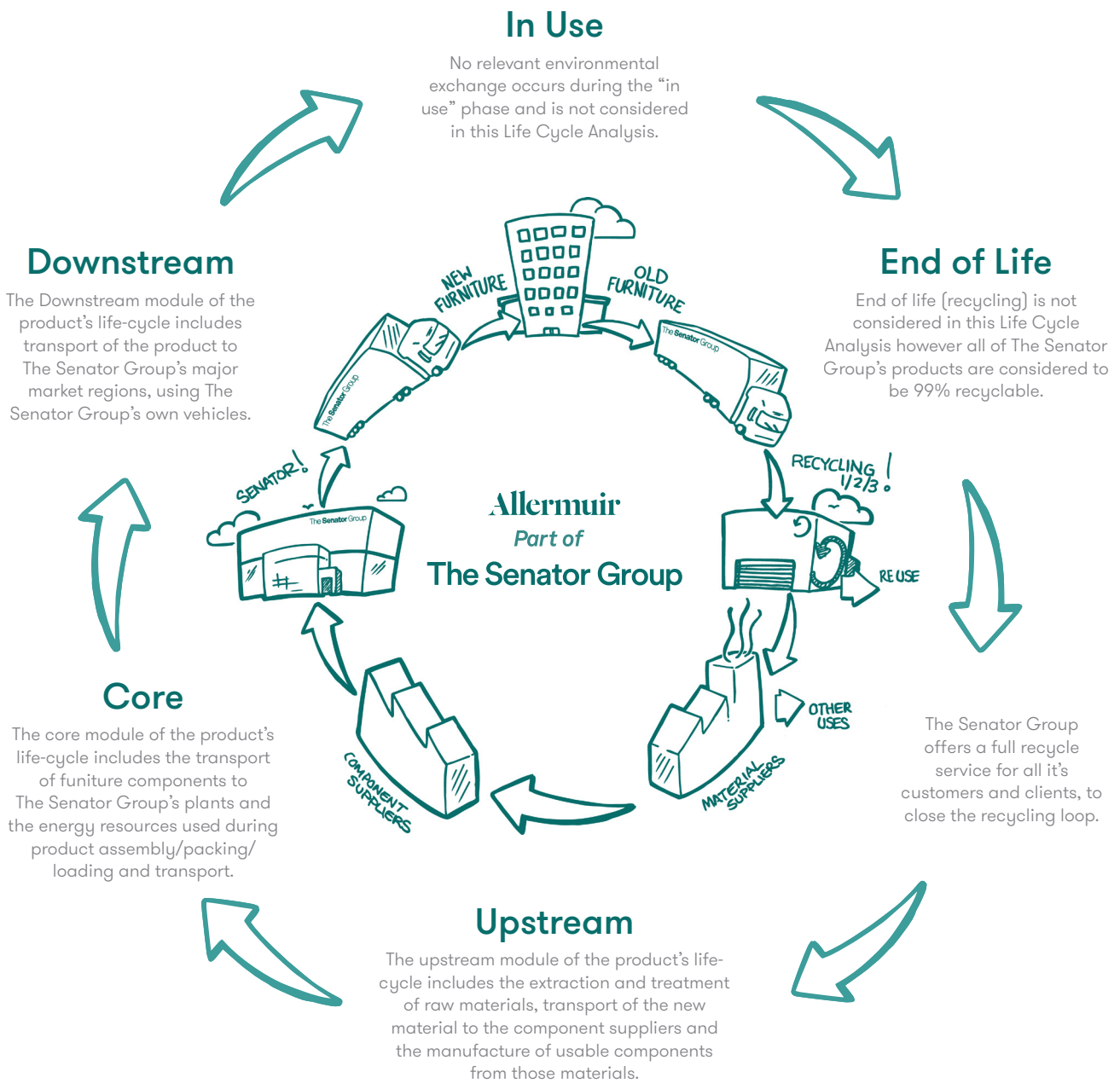
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	53.03	1.34	0.01	54.38
From the Ground	112.39	22.84	3.16	138.39
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	596.85	14.76	0.07	611.68
Hydro	69.46	4.85	0.39	74.70
Solar	0.08	0.00	0.00	0.08
Wind	5.48	1.43	0.02	6.93
Non-Renewable Energy (MJ)	4607.10	280.50	36.94	4924.54
Total	5278.97	301.54	37.42	5617.93

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	234.54	15.75	2.17	252.46
Acidification (Kg SO2 Equivalents)	1.19	0.06	0.01	1.26
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.22	0.00	0.00	0.22

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	235.69	568.67	212.28	1016.64
To the Ground	0.07	0.07	0.02	0.16
To the Water	13.92	9.62	3.15	26.69

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
TFL	45.00	19.35
Steel	50.00	12.50
Total		31.85

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
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Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

The primary market for our Office Furniture products is Europe. The scope of this declaration reflects that.

Material Declaration

Material	Amount (kg)	Total (%)
ABS	0.80	100.00

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	14.53
Recycled Content (% By Weight):	0.00
Total Energy Consumption (Mj):	313.74
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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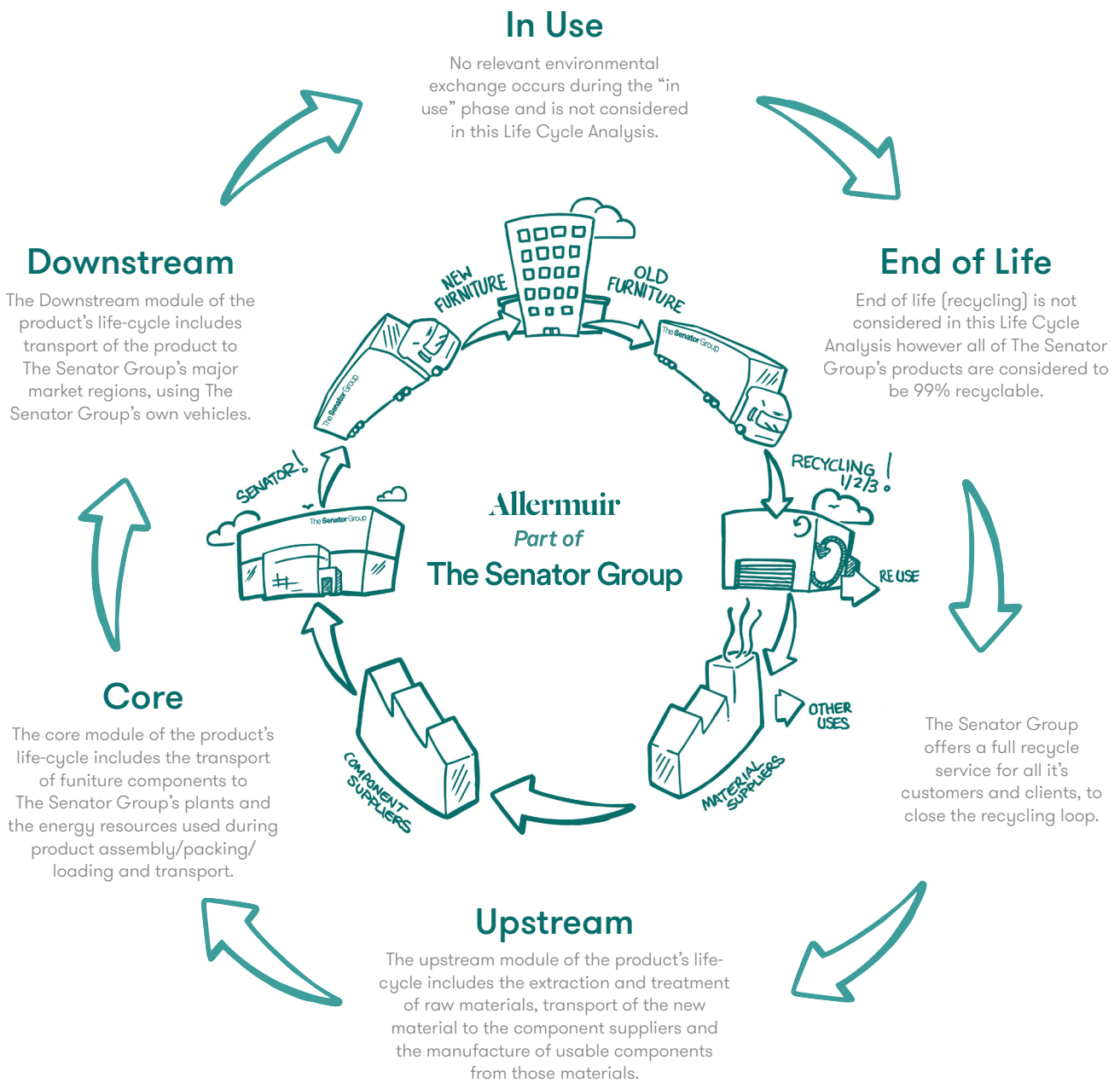
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.07	1.32	0.00	1.39
From the Ground	1.79	15.04	0.04	16.87
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	0.88	14.59	0.00	15.47
Hydro	0.83	3.88	0.00	4.71
Solar	0.00	0.00	0.00	0.00
Wind	0.10	1.38	0.00	1.48
Non-Renewable Energy (MJ)	102.40	189.24	0.44	292.08
Total	104.21	209.09	0.44	313.74

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	4.11	10.39	0.03	14.53
Acidification (Kg SO2 Equivalents)	0.01	0.04	0.00	0.05
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.01	0.00	0.00	0.01

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	3.99	44.25	2.51	50.76
To the Ground	0.00	0.00	0.00	0.00
To the Water	0.21	1.83	0.04	2.07

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Total		0.00

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