Crate Divide - CRT2H1B

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	8.10	99.75
Nylon 6	0.02	0.25

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	31.58
Recycled Content (% By Weight):	50.00
Total Energy Consumption (MJ):	578.02
Recyclability (% By Weight):	99.00

Date of Production: July 2021

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.
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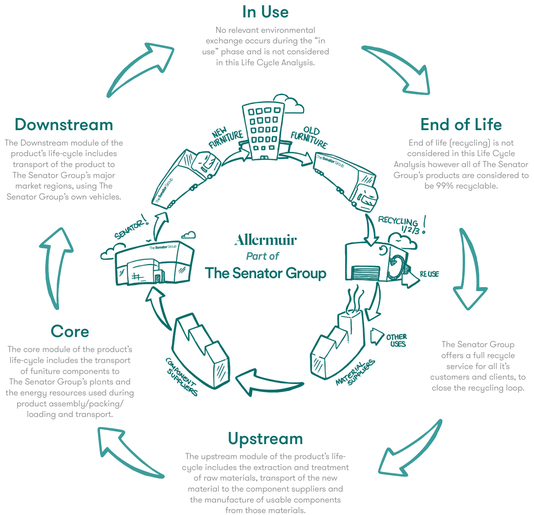

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.38	1.32	0.00	1.70
From the Ground	25.26	15.89	0.38	41.53
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	3.71	14.61	0.01	18.33
Hydro	14.27	3.99	0.05	18.31
Solar	0.02	0.00	0.00	0.02
Wind	1.14	1.39	0.00	2.53
Non-Renewable Energy (MJ)	335.14	199.25	4.44	538.83
Total	354.28	219.24	4.50	578.02

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	20.34	10.98	0.26	31.58
Acidification (Kg SO2 Equivalents)	0.08	0.04	0.00	0.12
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	21.25	101.76	25.52	148.43
To the Ground	0.02	0.01	0.00	0.04
To The Water	2.85	2.68	0.38	5.91

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
Health & Safety Standard	BS OHSAS 18001	Certified 2015

All UK manufacturing Sites are accredited to ISO standards, 9001, 14001 and 18001. 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.

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 - CRT2H2B

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	13.30	99.85
Nylon 6	0.02	0.15

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	45.12
Recycled Content (% By Weight):	50.00
Total Energy Consumption (MJ):	813.53
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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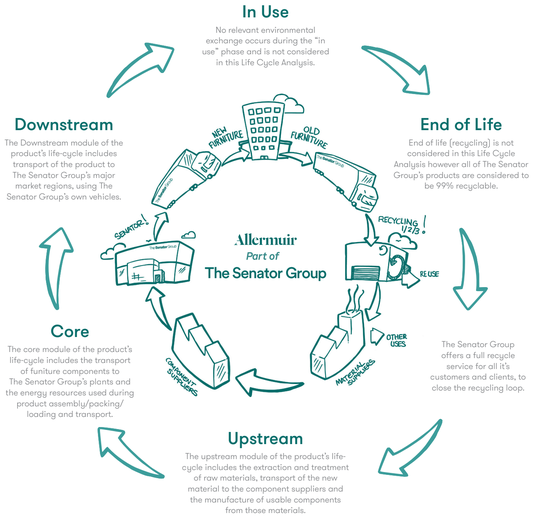

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.62	1.32	0.00	1.94
From the Ground	41.44	16.50	0.62	58.56
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	6.07	14.62	0.01	20.70
Hydro	23.43	4.06	0.08	27.57
Solar	0.03	0.00	0.00	0.03
Wind	1.86	1.39	0.00	3.25
Non-Renewable Energy (MJ)	548.34	199.25	7.28	761.98
Total	579.73	226.43	7.37	818.53

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	33.29	11.40	0.43	45.12
Acidification (Kg SO2 Equivalents)	0.14	0.04	0.00	0.18
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	34.64	142.61	41.86	219.12
To the Ground	0.04	0.02	0.00	0.04
To The Water	4.68	3.29	0.62	8.59

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 - CRT2H2B90

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	13.30	99.85
Nylon 6	0.02	0.15

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	45.12
Recycled Content (% By Weight):	50.00
Total Energy Consumption (MJ):	813.53
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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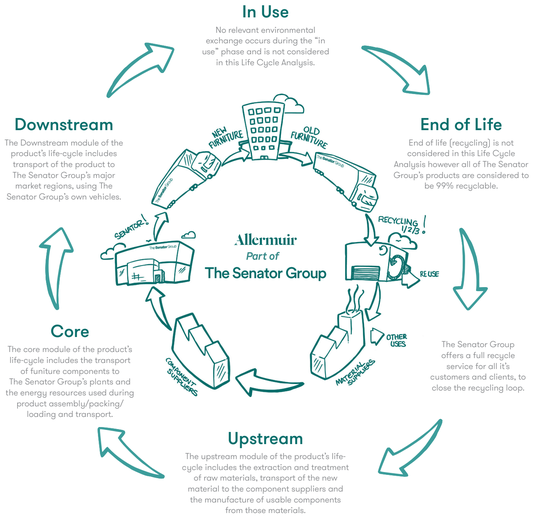

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.62	1.32	0.00	1.94
From the Ground	41.44	16.50	0.62	58.56
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	6.07	14.62	0.01	20.70
Hydro	23.43	4.06	0.08	27.57
Solar	0.03	0.00	0.00	0.03
Wind	1.86	1.39	0.00	3.25
Non-Renewable Energy (MJ)	548.34	199.25	7.28	761.98
Total	579.73	226.43	7.37	818.53

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	33.29	11.40	0.43	45.12
Acidification (Kg SO2 Equivalents)	0.14	0.04	0.00	0.18
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	34.64	142.61	41.86	219.12
To the Ground	0.04	0.02	0.00	0.04
To The Water	4.68	3.29	0.62	8.59

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
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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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- 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.
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Crate Divide - CRT2H2BMS

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	16.58	39.47
Nylon 6	0.02	0.05
EPDM	0.36	0.86
MFC	24.60	58.56
Stainless steel (304)	0.45	1.07

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	68.26
Recycled Content (% By Weight):	46.05
Total Energy Consumption (MJ):	1756.50
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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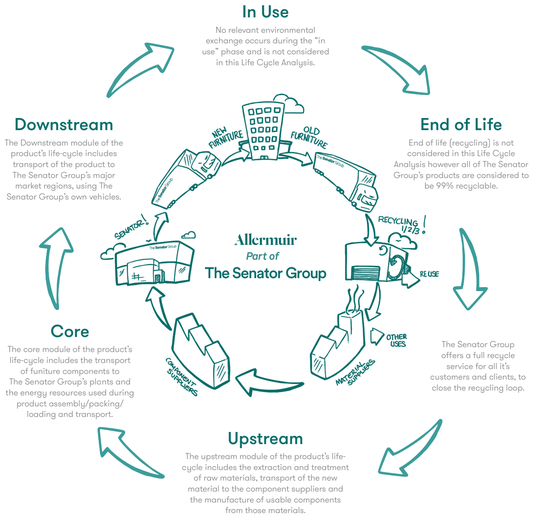

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	43.28	1.33	0.00	44.61
From the Ground	60.98	19.85	1.96	82.79
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	479.35	14.70	0.04	494.09
Hydro	37.65	4.48	0.24	42.37
Solar	0.04	0.00	0.00	0.04
Wind	2.91	1.41	0.01	4.33
Non-Renewable Energy (MJ)	947.12	245.58	22.97	1215.67
Total	1467.07	266.17	23.26	1756.50

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	53.31	13.70	1.35	68.26
Acidification (Kg SO2 Equivalents)	0.23	0.05	0.01	0.29
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)	0.02	0.00	0.00	0.02

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	58.45	368.02	132.02	558.48
To the Ground	0.06	0.02	0.02	0.12
To The Water	7.08	6.63	1.96	15.67

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	19.50
MFC	45.00	26.55
46.05Total		46.05

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
Health & Safety Standard	BS OHSAS 18001	Certified 2015

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Environmental Management

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Crate Divide - CRT2H3BMS

Design by Allermuir

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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 EcoInvent 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	23.50	6.99
Nylon 6	0.04	0.06
EPDM	0.54	0.85
MFC	39.00	61.39
Stainless steel (304)	0.45	0.71

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	98.53
Recycled Content (% By Weight):	45.95
Total Energy Consumption (MJ):	2511.11
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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Sustain

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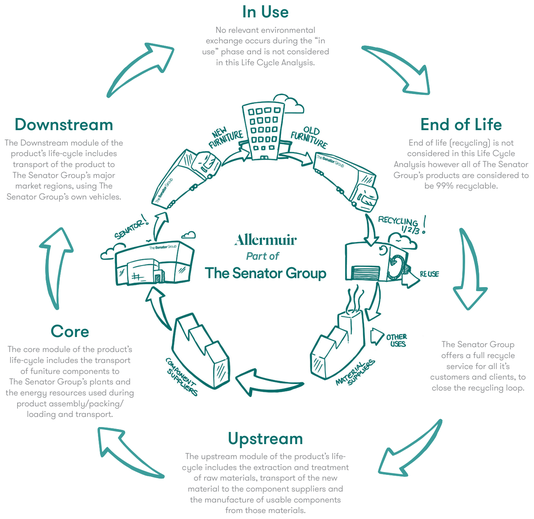

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	68.47	1.34	0.01	69.82
From the Ground	86.39	22.37	2.97	111.73
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	758.43	14.75	0.07	773.25
Hydro	52.02	4.79	0.37	57.18
Solar	0.06	0.00	0.00	0.06
Wind	4.15	1.42	0.02	5.59
Non-Renewable Energy (MJ)	1365.28	275.01	34.74	1675.03
Total	2179.94	295.97	35.20	2511.11

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	76.06	15.43	2.04	93.53
Acidification (Kg SO2 Equivalents)	0.32	0.06	0.01	0.39
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	84.04	537.09	199.65	820.77
To the Ground	0.08	0.06	0.02	0.17
To The Water	9.93	9.15	2.97	22.04

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	18.50
MFC	45.00	27.45
Total		45.95

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
Health & Safety Standard	BS OHSAS 18001	Certified 2015

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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.

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Assessment Considerations

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- All LCA data was modelled using the IMPACT 2002+ (v2.06) method.

Crate Divide - CRT2H3BS

Design by Allermuir

A cube based modular storage system with a prime function to 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:

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All secondary data was obtained from the EcoInvent 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	19.00	26.66
Nylon 6	0.22	0.31
MFC	51.60	72.40
Stainless steel (304)	0.45	0.63

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	87.75
Recycled Content (% By Weight):	45.90
Total Energy Consumption (MJ):	2653.14
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044.
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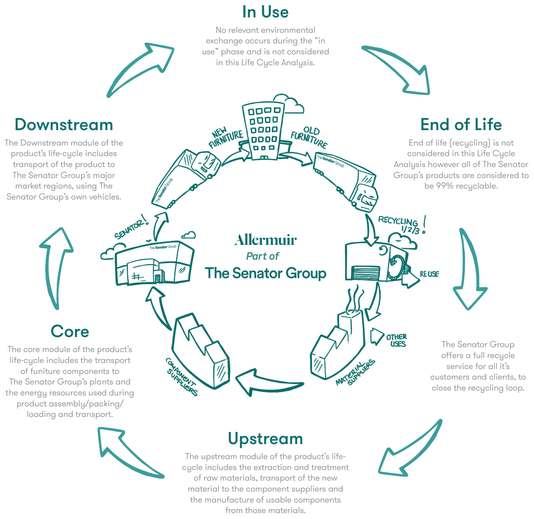

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	89.97	1.34	0.01	91.32
From the Ground	74.61	23.27	3.33	101.21
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	997.34	14.77	0.07	1012.18
Hydro	45.53	4.90	0.41	50.84
Solar	0.05	0.00	0.00	0.05
Wind	3.71	1.43	0.02	5.16
Non-Renewable Energy (MJ)	1260.34	285.59	38.98	1584.91
Total	2306.97	306.69	39.48	2653.14

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	69.41	16.05	2.29	87.75
Acidification (Kg SO2 Equivalents)	0.30	0.06	0.01	0.37
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	78.44	597.89	223.97	900.33
To the Ground	0.07	0.07	0.03	0.17
To The Water	8.60	10.05	3.33	21.97

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	13.50
MFC	45.00	32.40
Total		45.90

Certificates

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Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
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Environmental Management

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Chain of Custody

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Crate Divide - CRT2H4BCS

Design by Allermuir

A cube based modular storage system with a prime function to 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.
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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 (%)
Steel	23.80	21.30
Nylon 6	0.33	0.30
MFC	68.80	61.57
Stainless steel (304)	0.45	0.40
Plywood	18.36	16.43

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	123.02
Recycled Content (% By Weight):	38.40
Total Energy Consumption (MJ):	4231.32
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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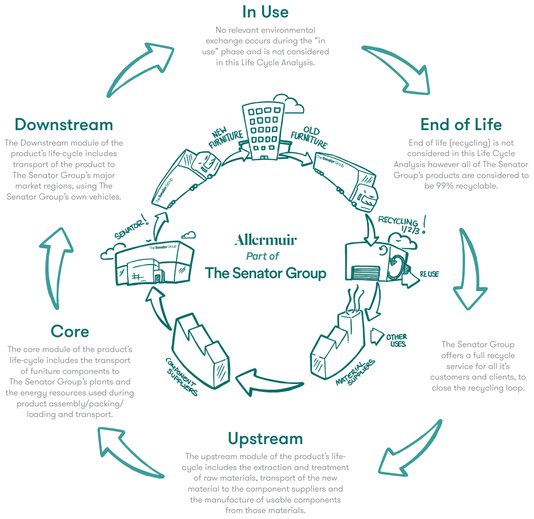

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	169.19	1.35	0.01	170.55
From the Ground	117.70	28.01	5.23	150.94
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1869.41	14.87	0.11	1884.39
Hydro	63.21	5.49	0.65	69.35
Solar	0.08	0.00	0.00	0.08
Wind	5.49	1.45	0.03	6.97
Non-Renewable Energy (MJ)	1868.50	340.92	61.11	2270.53
Total	3806.69	362.73	61.90	4231.32

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	100.13	19.30	3.59	123.02
Acidification (Kg SO2 Equivalents)	0.45	0.08	0.02	0.55
Eutrophication (Kg PO43 Equivalents)	0.03	0.00	0.00	0.03
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.05	0.01	0.00	0.06

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	132.71	915.84	351.15	1399.71
To the Ground	0.14	0.11	0.04	0.29
To The Water	11.86	14.77	5.22	31.85

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	10.50
MFC	45.00	27.90
Total		38.40

Certificates

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Environmental Management

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Crate Divide - CRT2H4BMS

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 (%)
Steel	29.50	37.05
Nylon 6	0.04	0.05
EPDM	0.54	0.68
MFC	49.10	61.66
Stainless steel (304)	0.45	0.57

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	113.79
Recycled Content (% By Weight):	46.40
Total Energy Consumption (MJ):	3078.24
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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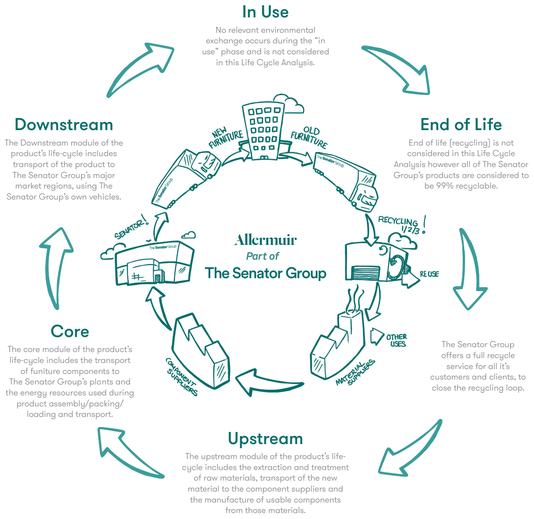

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	89.17	1.34	0.01	87.52
From the Ground	107.45	24.25	3.72	135.42
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	954.55	14.79	0.08	969.42
Hydro	63.99	5.02	0.46	69.47
Solar	0.08	0.00	0.00	0.08
Wind	5.17	1.43	0.02	6.62
Non-Renewable Energy (MJ)	1692.08	297.02	43.55	2032.65
Total	2715.87	318.26	44.11	3078.24

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	94.51	16.72	2.56	113.79
Acidification (Kg SO2 Equivalents)	0.40	0.07	0.01	0.48
Eutrophication (Kg PO43 Equivalents)	0.03	0.00	0.00	0.03
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	104.55	663.57	250.24	1018.37
To the Ground	0.10	0.08	0.03	0.21
To The Water	12.30	11.03	3.72	27.04

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	18.50
MFC	45.00	27.90
Total		46.40

Certificates

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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 (%)
Steel	23.80	23.20
Nylon 6	0.33	0.32
MFC	78.00	76.04
Stainless steel (304)	0.45	0.44

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	113.32
Recycled Content (% By Weight):	45.70
Total Energy Consumption (MJ):	3659.78
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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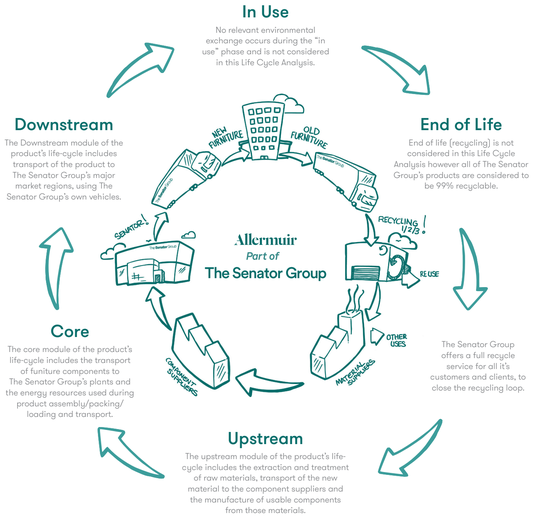

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	135.75	1.35	0.01	137.11
From the Ground	96.08	26.93	4.80	127.81
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1505.17	14.85	0.11	1520.13
Hydro	57.76	5.35	0.59	63.70
Solar	0.07	0.00	0.00	0.07
Wind	4.86	1.45	0.02	6.33
Non-Renewable Energy (MJ)	1685.06	328.39	56.10	2069.55
Total	3253.92	350.04	56.82	3659.78

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	91.47	18.56	3.29	113.32
Acidification (Kg SO2 Equivalents)	0.39	0.08	0.02	0.49
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)	0.04	0.01	0.00	0.05

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	104.58	843.88	322.37	1270.82
To the Ground	0.09	0.10	0.04	0.23
To The Water	10.99	13.70	4.79	29.49

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	11.50
MFC	45.00	34.20
Total		45.70

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
Health & Safety Standard	BS OHSAS 18001	Certified 2015

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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.

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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.
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Assessment Considerations

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Crate Divide - CRT3H3BS

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	26.20	33.39
Nylon 6	0.22	0.28
MFC	51.60	65.76
Stainless steel (304)	0.45	0.57

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	106.49
Recycled Content (% By Weight):	46.20
Total Energy Consumption (MJ):	2979.27
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044.
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Compilation and processing of LCA data performed by
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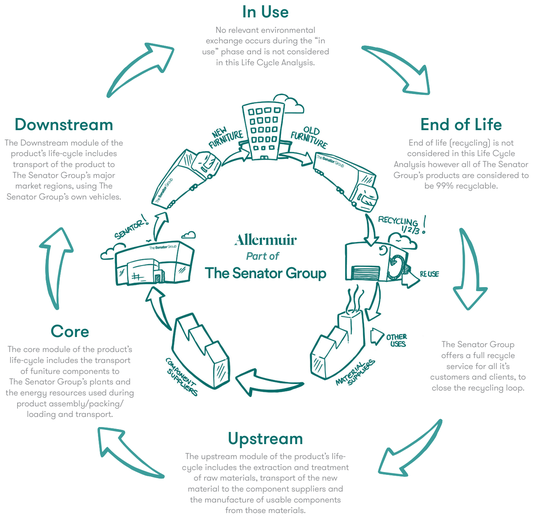

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	90.30	1.34	0.01	91.65
From the Ground	97.01	24.12	3.67	124.80
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1000.62	14.79	0.08	1015.49
Hydro	58.20	5.01	0.45	63.66
Solar	0.07	0.00	0.00	0.07
Wind	4.72	1.43	0.02	6.17
Non-Renewable Energy (MJ)	1555.54	295.43	42.91	1893.88
Total	2619.15	316.66	43.46	2979.27

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	87.34	16.63	2.52	106.49
Acidification (Kg SO2 Equivalents)	0.037	0.07	0.01	0.45
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)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	97.12	654.46	246.60	998.17
To the Ground	0.09	0.08	0.03	0.20
To The Water	11.13	10.89	3.66	25.68

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	16.50
MFC	45.00	29.70
Total		46.20

Certificates

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Environmental Management

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Assessment Considerations

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Crate Divide - CRT3H4BCS

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	33.90	27.82
Nylon 6	0.33	0.27
MFC	68.80	56.47
Stainless steel (304)	0.45	0.37
Plywood	18.36	15.07

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	149.30
Recycled Content (% By Weight):	39.20
Total Energy Consumption (MJ):	4688.81
Recyclability (% By Weight):	99.00
Date of Production: July 2021	

Environmental Product Analysis

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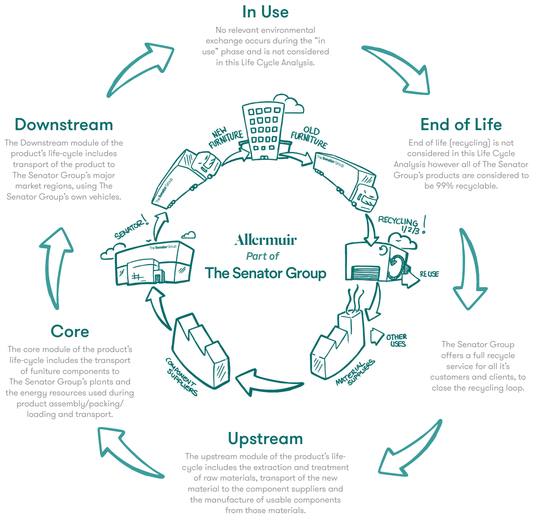

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	169.66	1.35	0.01	171.02
From the Ground	149.13	29.19	5.70	184.02
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1874.01	14.90	0.13	1889.04
Hydro	80.99	5.63	0.70	87.32
Solar	0.10	0.00	0.00	0.10
Wind	6.90	1.46	0.03	8.39
Non-Renewable Energy (MJ)	2282.60	354.73	66.63	2703.96
Total	4244.60	376.72	67.49	4688.81

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	125.28	20.11	3.91	149.30
Acidification (Kg SO2 Equivalents)	0.56	0.08	0.02	0.66
Eutrophication (Kg PO43 Equivalents)	0.04	0.00	0.00	0.04
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	158.92	995.19	382.89	1537.00
To the Ground	0.17	0.11	0.04	0.33
To The Water	15.42	15.95	5.69	37.06

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	14.00
MFC	45.00	25.20
Total		39.20

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
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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 - CRT3H4BS

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 (%)
Steel	33.90	30.09
Nylon 6	0.33	0.29
MFC	78.00	69.22
Stainless steel (304)	0.45	0.40

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	139.61
Recycled Content (% By Weight):	46.05
Total Energy Consumption (MJ):	4117.29
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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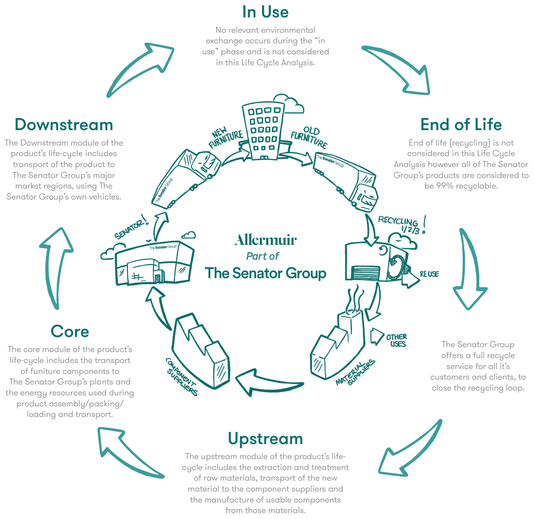

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	136.22	1.35	0.01	137.58
From the Ground	127.51	28.12	5.27	160.90
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1509.77	14.88	0.12	1524.77
Hydro	75.54	5.50	0.65	81.69
Solar	0.09	0.00	0.00	0.09
Wind	6.28	1.45	0.03	7.76
Non-Renewable Energy (MJ)	2099.16	342.20	61.62	2502.98
Total	3690.84	364.03	62.42	4117.29

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	116.62	19.37	3.62	139.61
Acidification (Kg SO2 Equivalents)	0.50	0.08	0.02	0.60
Eutrophication (Kg PO43 Equivalents)	0.03	0.00	0.00	0.03
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.05	0.01	0.00	0.06

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	130.78	923.23	354.11	1408.12
To the Ground	0.12	0.11	0.04	0.27
To The Water	14.55	14.88	5.26	34.69

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	15.00
MFC	45.00	31.05
Total		46.05

Certificates

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Crate Divide - CRT6CB

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 (%)
Steel	2.70	100.00

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	17.35
Recycled Content (% By Weight):	50.00
Total Energy Consumption (MJ):	330.30
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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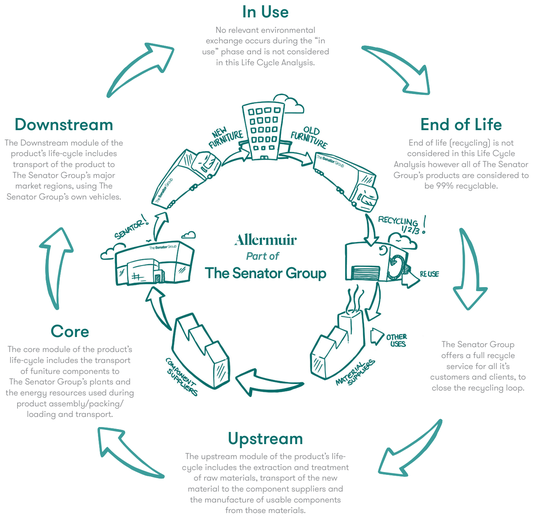


System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	0.13	1.32	0.00	1.45
From the Ground	8.40	15.26	0.13	23.79
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1.23	14.59	0.00	15.82
Hydro	4.75	3.91	0.02	8.68
Solar	0.01	0.00	0.00	0.01
Wind	0.38	1.39	0.00	1.77
Non-Renewable Energy (MJ)	110.70	191.84	1.48	304.02
Total	117.07	211.73	1.50	330.30

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	6.72	10.54	0.09	17.35
Acidification (Kg SO2 Equivalents)	0.03	0.04	0.00	0.07
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	7.00	59.18	8.48	74.67
To the Ground	0.01	0.01	0.00	0.02
To The Water	0.95	2.05	0.13	3.12

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
Health & Safety Standard	BS OHSAS 18001	Certified 2015

All UK manufacturing Sites are accredited to ISO standards, 9001, 14001 and 18001. 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

The Senator Group is committed to continually improving the sustainability of all environmental aspects within our business.
To meet both international standards and our own environmental targets we apply the three R's principle–

Reduce, Reuse and Recycle.

Whilst recycling is the element which receives the most exposure it is actually the last option available and should never be the prime target in anyone's battle to reduce waste.

It is our duty as individuals and as a company to initially attempt to Reduce usage. Then we should look to Reuse wherever possible and finally, only after these two processes have been exhausted, should we consider Recycling.

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 - CRTLK

Design by Allermuir

A cube based modular storage system with a prime function to 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 EcoInvent 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	0.20	100.00

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	10.85
Recycled Content (% By Weight):	50.00
Total Energy Consumption (MJ):	217.04
Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

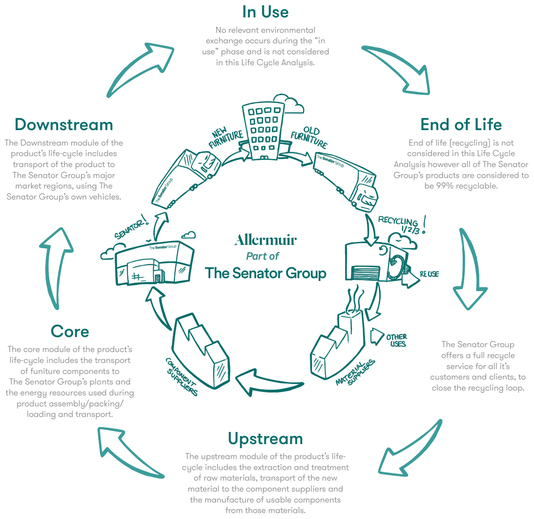
This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and ISO14044.
All the Life Cycle Analysis data has been compiled, processed and verified by Oakdene Hollins Ltd.

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	0.01	1.32	0.00	1.33
From the Ground	0.62	14.97	0.01	15.60
From The Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	0.09	14.59	0.00	14.68
Hydro	0.35	3.87	0.00	4.22
Solar	0.00	0.00	0.00	0.00
Wind	0.03	1.38	0.00	1.41
Non-Renewable Energy (MJ)	8.20	188.42	0.11	196.73
Total	8.67	208.26	0.11	217.04

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	0.50	10.34	0.01	10.85
Acidification (Kg SO2 Equivalents)	0.00	0.04	0.00	0.04
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	0.52	39.54	0.63	40.68
To the Ground	0.00	0.00	0.00	0.00
To The Water	0.07	1.76	0.01	1.84

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