

Crate Divide - CRT2H1B

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

spaces.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	31.5
teel	8.10	99.75	Recycled Content (% By Weight):	50.0
lylon 6	0.02	0.25	Total Energy Consumption (Mj):	578.0
			Recyclability (% By Weight):	99.0

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.)

Allermuir **System Boundaries**

Sustain

The Senator Group has for many years acknowledged that the remanufacture or reintroduce the materials into our component key word upon which to focus our attention is Sustainability rather manufacturers supply chain. 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 abdicating 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

The Senator Group's plants and

the energy resources used during

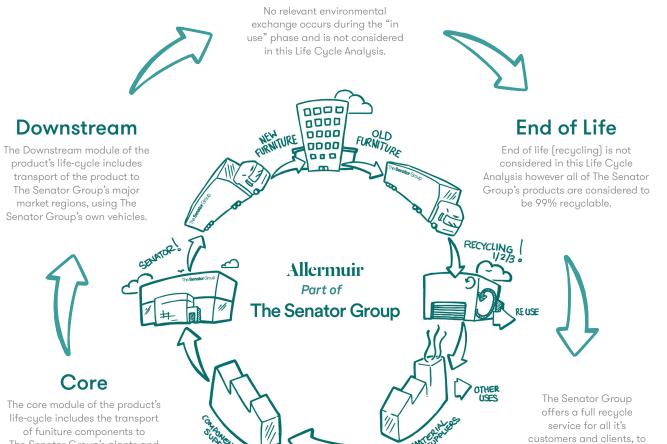
product assembly/packing/ loading and transport.

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or

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.

close the recycling loop.

In Use



Upstream

The upstream module of the product's life-

cycle includes the extraction and treatment

of raw materials, transport of the new

material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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

Upstream	Core	Downstream	Total
3.71	14.61	0.01	18.33
14.27	3.99	0.05	18.31
0.02	0.00	0.00	0.02
1.14	1.39	0.00	2.53
335.14	199.25	4.44	538.83
354.28	219.24	4.50	578.02
	14.27 0.02 1.14 335.14	3.71 14.61 14.27 3.99 0.02 0.00 1.14 1.39 335.14 199.25	3.71 14.61 0.01 14.27 3.99 0.05 0.02 0.00 0.00 1.14 1.39 0.00 335.14 199.25 4.44

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

Allermuir

System Boundaries

50.00

Certificates

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Certificates

Description	Accreditation	i iist Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental 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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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.

Management

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

Chain of Custody

Independent certification only purchases MFC/ MDF/Chipboard from manufacturers who can prove from sustainable sources.

Energy Management:

in the furniture industry to

achieve this standard.

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually they purchase their raw wood minimise energy usage. We believe The Senator Group was the first company

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.

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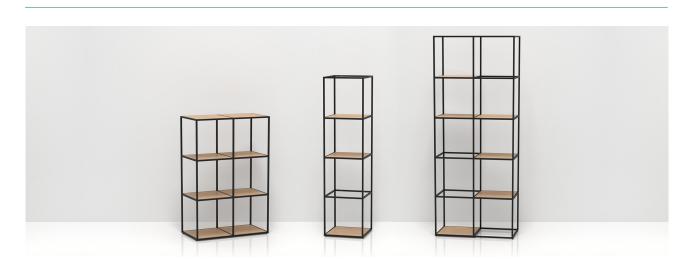
Assessment Considerations

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.

and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the



Crate Divide - CRT2H2B

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Product Summary

Scope of Assessment:

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Data Used:

during the core module.

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Functional Unit: From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe. Primary data was used wherever possible including for energy use The scope of this declaration reflects that.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	45.12
Steel	13.30	99.85	Recycled Content (% By Weight):	50.00
Nylon 6	0.02	0.15	Total Energy Consumption (Mj):	813.53
			Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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Allermuir **System Boundaries**

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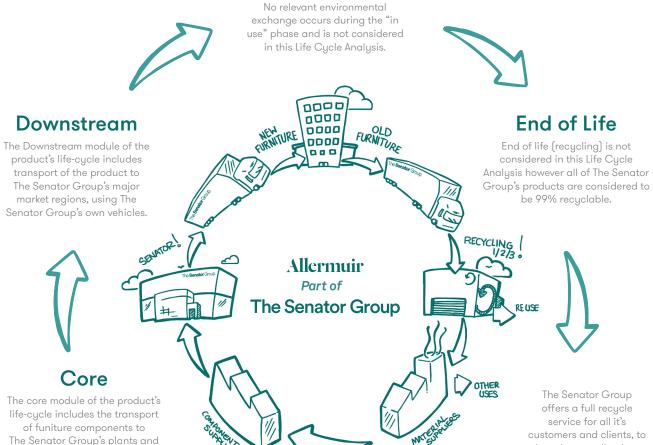
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close the recycling loop.

In Use



Upstream

The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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 I Product (% by weight	
Material	Amount	Percent of Total	
Steel	50.00	50.00	

Allermuir

System Boundaries

50.00

Certificates

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Certificates

Description

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
Health & Safety Standard	BS OHSAS 18001	Certified 2015

Accreditation











Chain

of Custody

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Management

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

Independent certification materials through to production to prove The Senator Group only purchases MFC/ MDF/Chipboard from

Energy

manufacturers who can prove from sustainable sources.

Management: External proof that The Senator

achieve this standard.

Group has implemented a robust system to monitor all energy usage and have a process to continually they purchase their raw wood minimise energy usage. We believe The Senator Group was the first company in the furniture industry to

The Three R's

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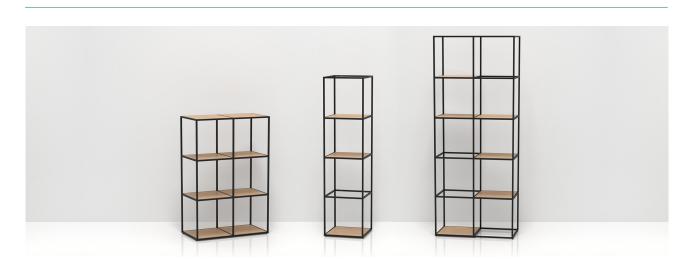
Assessment Considerations

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.

to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the and finished products was assumed IMPACT 2002+ (v2.06) method.



Crate Divide - CRT2H2B90

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

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Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

during the core module.

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Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe. Primary data was used wherever possible including for energy use The scope of this declaration reflects that.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	45.12
Steel	13.30	99.85	Recycled Content (% By Weight):	50.00
Nylon 6	0.02	0.15	Total Energy Consumption (Mj):	813.53
			Recyclability (% By Weight):	99.00

Date of Production: July 2021

Environmental Product Analysis

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Allermuir **System Boundaries**

Sustain

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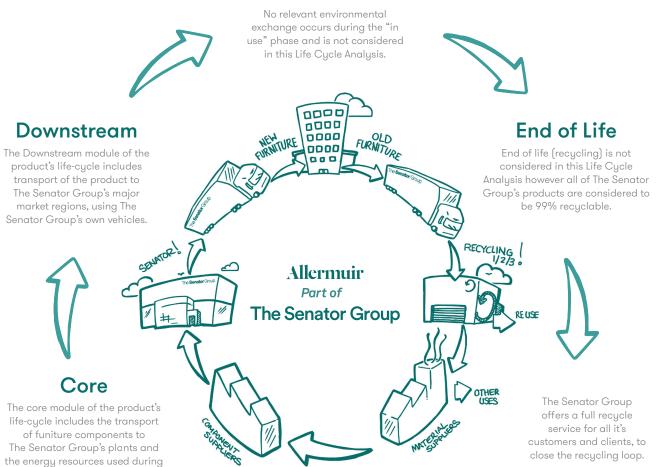
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In Use



Upstream

The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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 I Product (% by weight	
Material	Amount	Percent of Total	
Steel	50.00	50.00	

Allermuir

System Boundaries

50.00

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
Health & Safety Standard	BS OHSAS 18001	Certified 2015















Chain

of Custody

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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.

Management

From extraction of raw Independent certification materials through to production to prove The Senator Group of the final Office Furniture only purchases MFC/ unit (cradle to gate). See MDF/Chipboard from page 2 for more details.

Energy Management:

manufacturers who can prove they purchase their raw wood minimise energy usage. from sustainable sources.

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually 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

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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

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

spaces.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

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Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	68.2
teel	16.58	39.47	Recycled Content (% By Weight):	46.0
lylon 6	0.02	0.05	Total Energy Consumption (Mj):	1756.5
PDM	0.36	0.86	Recyclability (% By Weight):	99.0
MFC	24.60	58.56		
tainless steel (304)	0.45	1.07	Date of Production: July 2021	

Environmental Product Analysis

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Allermuir **System Boundaries**

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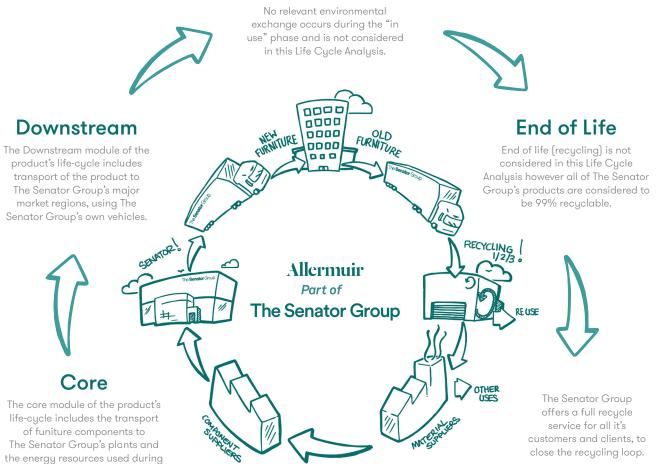
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In Use



Upstream

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Allermuir

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

System Boundaries

Energy Consumption

Upstream	Core	Downstream	Tota
479.35	14.70	0.04	494.09
37.65	4.48	0.24	42.37
0.04	0.00	0.00	0.04
2.91	1.41	0.01	4.33
947.12	245.58	22.97	1215.67
1467.07	266.17	23.26	1756.50
	479.35 37.65 0.04 2.91 947.12	479.35 14.70 37.65 4.48 0.04 0.00 2.91 1.41 947.12 245.58	479.35 14.70 0.04 37.65 4.48 0.24 0.04 0.00 0.00 2.91 1.41 0.01 947.12 245.58 22.97

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Tota
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	0.0
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 I Product (% by weight	
Material	Amount	Percent of Total	
Steel	50.00	19.5	
MFC	45.00	26.5	
46 N5Total		46 N	

Allermuir

Certificates

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Certificates

Description

Description	Accreditation	First Certified
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Accreditation













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External proof that The Senator

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and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

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Data Used:

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All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	98.53
Steel	23.50	6.99	Recycled Content (% By Weight):	45.95
Nylon 6	0.04	0.06	Total Energy Consumption (Mj):	2511.11
EPDM	0.54	0.85	Recyclability (% By Weight):	99.00
MFC	39.00	61.39		
Stainless steel (304)	0.45	0.71	Date of Production: July 2021	

Environmental Product Analysis

Material Declaration

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.)

Allermuir **System Boundaries**

Sustain

The Senator Group has for many years acknowledged that the remanufacture or reintroduce the materials into our component key word upon which to focus our attention is Sustainability rather manufacturers supply chain. 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 abdicating 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

customers and clients, to

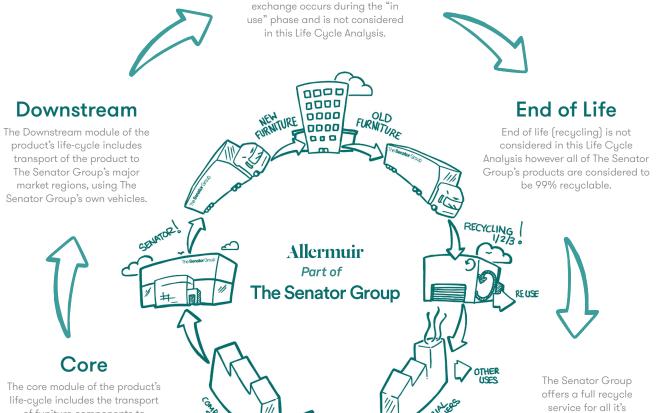
close the recycling loop.

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or

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.

In Use

No relevant environmental



of funiture components to The Senator Group's plants and the energy resources used during product assembly/packing/

loading and transport.

Upstream The upstream module of the product's life-

cycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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

System Boundaries

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	Tota
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	0.00

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 I Product (% by weight	
Material	Amount	Percent of Total	
Steel	50.00	18.5	
MFC	45.00	27.4	
Total		45.9	

Allermuir

Certificates

First Certified

Certified 1991

Certified 2001

Certified 2003

Certified 2006

Certified 2015

Certificates

Description Quality Assurance Envronmental Management Chain of Custody

ISO 14001 FSC® FISP Sustainability BS OHSAS 18001 Health & Safety Standard







Accreditation

ISO 9001







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

Management

From extraction of raw Independent certification materials through to production to prove The Senator Group of the final Office Furniture only purchases MFC/ unit (cradle to gate). See MDF/Chipboard from page 2 for more details.

Chain of Custody

manufacturers who can prove they purchase their raw wood from sustainable sources.

Energy Management:

achieve this standard.

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

The Three R's

in every possible way.

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.

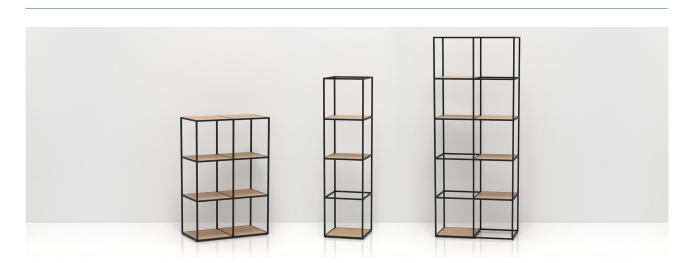
Whilst recycling is the element which receives the most exposure it is actually the last option available and should never be the prime target in anyone's battle to reduce waste. It is our duty as individuals and as a company to initially attempt to Reduce usage. Then we should look to Reuse wherever 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 • All LCA data was modelled using the and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.



Crate Divide - CRT2H3BS

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	87.7
teel	19.00	26.66	Recycled Content (% By Weight):	45.9
lylon 6	0.22	0.31	Total Energy Consumption (Mj):	2653.1
MFC	51.60	72.40	Recyclability (% By Weight):	99.0
tainless steel (304)	0.45	0.63		
			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.)

Allermuir **System Boundaries**

Sustain

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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

the energy resources used during

product assembly/packing/ loading and transport.

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or

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.

In Use



Upstream

The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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

System Boundaries

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

Allermuir

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental 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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Management

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

Chain of Custody

Independent certification materials through to production to prove The Senator Group only purchases MFC/ MDF/Chipboard from from sustainable sources.

Energy

manufacturers who can prove

Management: External proof that The Senator

Group has implemented a robust system to monitor all energy usage and have a process to continually they purchase their raw wood 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.

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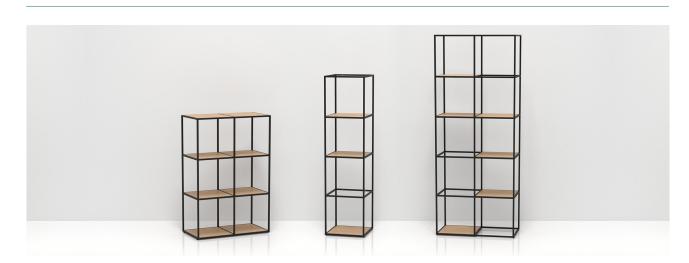
Assessment Considerations

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.

and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the



Crate Divide - CRT2H4BCS

with a prime function to to act as a room together in-line or at right angles to

divider. Create spaces using the modular create different zones within existing spaces.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

design of Crate.

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

				•
laterial	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	123.02
eel	23.80	21.30	Recycled Content (% By Weight):	38.40
ylon 6	0.33	0.30	Total Energy Consumption (Mj):	4231.32
FC	68.80	61.57	Recyclability (% By Weight):	99.00
cainless steel (304)	0.45	0.40		
ywood	18.36	16.43	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.



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Allermuir **System Boundaries**

Sustain

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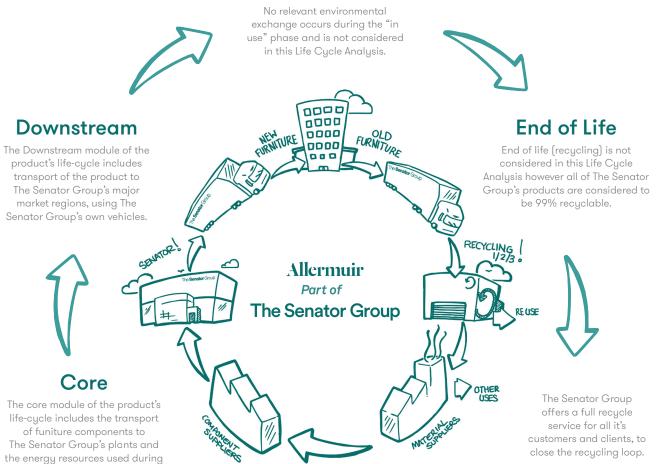
We harvest the resources back from the retired products then

product assembly/packing/ loading and transport.

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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.

In Use



Upstream

The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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

System Boundaries

Energy Consumption

Upstream	Core	Downstream	Total
1869.41	14.87	0.11	1884.39
63.21	5.49	0.65	69.35
0.08	0.00	0.00	0.08
5.49	1.45	0.03	6.97
1868.50	340.92	61.11	2270.53
3806.69	362.73	61.90	4231.32
	1869.41 63.21 0.08 5.49 1868.50	1869.41 14.87 63.21 5.49 0.08 0.00 5.49 1.45 1868.50 340.92	1869.41 14.87 0.11 63.21 5.49 0.65 0.08 0.00 0.00 5.49 1.45 0.03 1868.50 340.92 61.11

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 Tota
Steel	50.00	10.50
MFC	45.00	27.90
Total		20 11(

Allermuir

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental 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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Management

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

Chain of Custody

Independent certification materials through to production to prove The Senator Group only purchases MFC/ MDF/Chipboard from

Energy

manufacturers who can prove from sustainable sources.

Management:

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually they purchase their raw wood 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.

and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the



Crate Divide - CRT2H4BMS

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

spaces.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Material Declaration Environmental Summaru

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	113.79
Steel	29.50	37.05	Recycled Content (% By Weight):	46.40
Nylon 6	0.04	0.05	Total Energy Consumption (Mj):	3078.24
EPDM	0.54	0.68	Recyclability (% By Weight):	99.00
MFC	49.10	61.66		
Stainless steel (304)	0.45	0.57	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.)

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Allermuir **System Boundaries**

Sustain

The Senator Group has for many years acknowledged that the remanufacture or reintroduce the materials into our component key word upon which to focus our attention is Sustainability rather manufacturers supply chain. than Recyclability in pure isolation.

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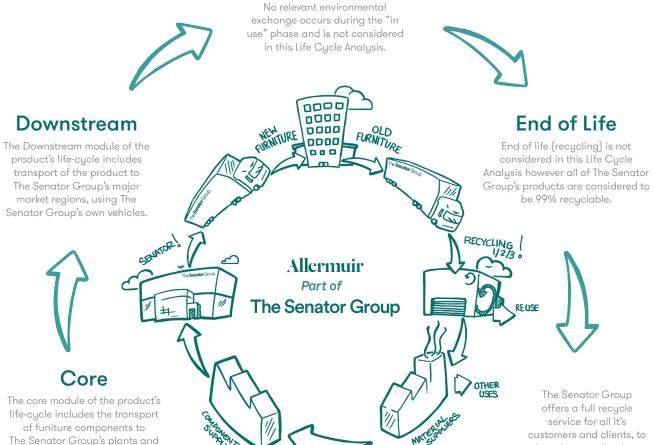
the energy resources used during

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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.

In Use



Upstream

The upstream module of the product's life-

cycle includes the extraction and treatment

of raw materials, transport of the new

material to the component suppliers and the manufacture of usable components from those materials.

close the recycling loop.

Allermuir

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

System Boundaries

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Tota
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

Upstream	Core	Downstream	Total
94.51	16.72	2.56	113.79
0.40	0.07	0.01	0.48
0.03	0.00	0.00	0.03
0.00	0.00	0.00	0.00
0.04	0.00	0.00	0.04
	94.51 0.40 0.03 0.00	94.51 16.72 0.40 0.07 0.03 0.00 0.00 0.00	94.51 16.72 2.56 0.40 0.07 0.01 0.03 0.00 0.00 0.00 0.00 0.00

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	

Allermuir

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Health & Safety Standard	BS OHSAS 18001	Certified 2015













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in every possible way.

Management

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

Chain of Custody

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

Energy Management:

all energy usage and have a process to continually We believe The Senator Group was the first company in the furniture industry to

achieve this standard.

External proof that The Senator

Group has implemented a

robust system to monitor

The Three R's

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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.

Whilst recycling is the element which receives the most

Assessment Considerations

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Crate Divide - CRT2H4BS

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

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Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

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Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	113.32
Steel	23.80	23.20	Recycled Content (% By Weight):	45.70
Nylon 6	0.33	0.32	Total Energy Consumption (Mj):	3659.78
MFC	78.00	76.04	Recyclability (% By Weight):	99.00
Stainless steel (304)	0.45	0.44		
			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.)

Allermuir **System Boundaries**

Sustain

key word upon which to focus our attention is Sustainability rather manufacturers supply chain. 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 abdicating 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.

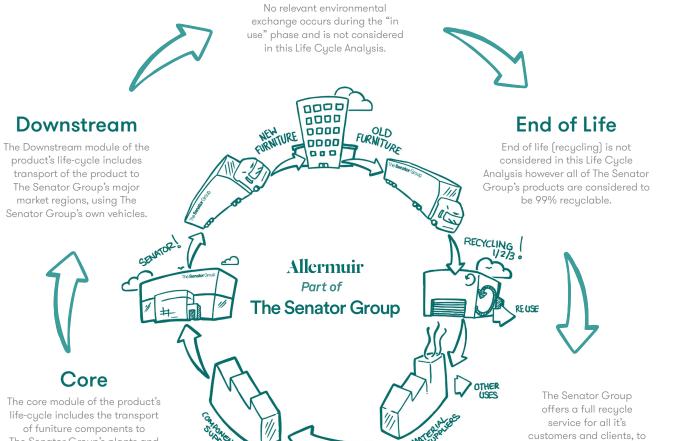
We harvest the resources back from the retired products then

The Senator Group has for many years acknowledged that the remanufacture or reintroduce the materials into our component

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or

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.

In Use



The Senator Group's plants and the energy resources used during product assembly/packing/ loading and transport.

Upstream The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and

> the manufacture of usable components from those materials.



close the recycling loop.

Allermuir

System Boundaries

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

Upstream	Core	Downstream	lota
1505.17	14.85	0.11	1520.13
57.76	5.35	0.59	63.70
0.07	0.00	0.00	0.07
4.86	1.45	0.02	6.33
1685.06	328.39	56.10	2069.55
3253.92	350.04	56.82	3659.78
	1505.17 57.76 0.07 4.86 1685.06	1505.17 14.85 57.76 5.35 0.07 0.00 4.86 1.45 1685.06 328.39	1505.17 14.85 0.11 57.76 5.35 0.59 0.07 0.00 0.00 4.86 1.45 0.02 1685.06 328.39 56.10

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 Tota	
Steel	50.00	11.50	
MFC	45.00	34.20	
Total		45.70	

Allermuir

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental 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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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.

Management

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

Chain of Custody

Independent certification materials through to production to prove The Senator Group only purchases MFC/ MDF/Chipboard from manufacturers who can prove from sustainable sources.

Energy Management:

achieve this standard.

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually they purchase their raw wood minimise energy usage. We believe The Senator Group was the first company in the furniture industry to

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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.

and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the

Crate Divide - CRT3H3BS

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

spaces.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	106.4
teel	26.20	33.39	Recycled Content (% By Weight):	46.2
lylon 6	0.22	0.28	Total Energy Consumption (Mj):	2979.2
MFC	51.60	65.76	Recyclability (% By Weight):	99.0
tainless steel (304)	0.45	0.57		
			Date of Production: July 2021	

Environmental Product Analysis

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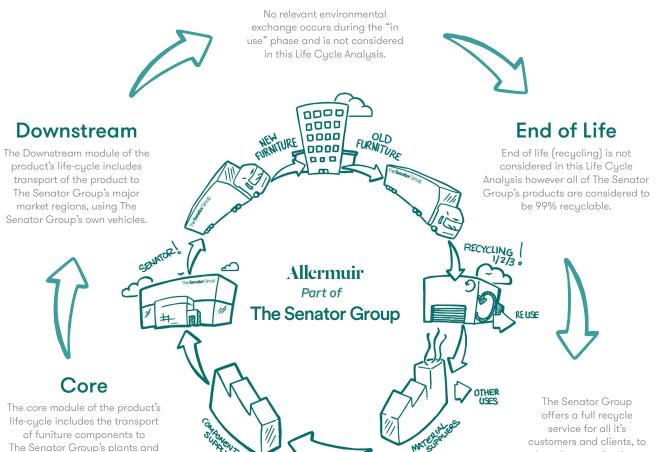
product assembly/packing/ loading and transport.

close the recycling loop.

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In Use



Upstream

The upstream module of the product's life-

cycle includes the extraction and treatment

of raw materials, transport of the new

material to the component suppliers and the manufacture of usable components from those materials.

Allermuir

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

System Boundaries

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 I Product (% by weight	
Material	Amount	Percent of Total	
Steel	50.00	16.50	
MFC	45.00	29.70	
Total		46.21	

Allermuir

Certificates

Certificates

Description Accreditation First Certified ISO 9001 Certified 1991 Quality Assurance Envronmental Management ISO 14001 Certified 2001 FSC® Chain of Custody Certified 2003 FISP Certified 2006 Sustainabilitu BS OHSAS 18001 Certified 2015 Health & Safety Standard















Chain

of Custody

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Management

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

Independent certification materials through to production to prove The Senator Group only purchases MFC/ MDF/Chipboard from from sustainable sources.

Energy Management:

External proof that The Senator Group has implemented a robust system to monitor manufacturers who can prove they purchase their raw wood

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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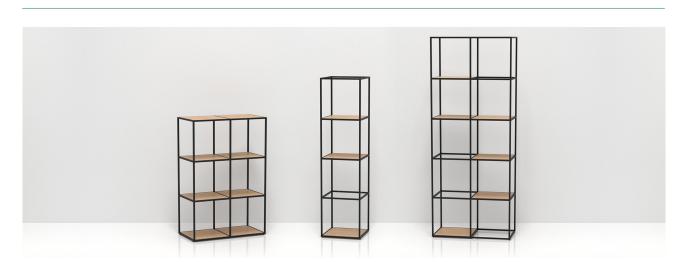
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Crate Divide - CRT3H4BCS

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe. Primary data was used wherever possible including for energy use The scope of this declaration reflects that.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	149.30
teel	33.90	27.82	Recycled Content (% By Weight):	39.20
lylon 6	0.33	0.27	Total Energy Consumption (Mj):	4688.81
1FC	68.80	56.47	Recyclability (% By Weight):	99.00
tainless steel (304)	0.45	0.37		
lywood	18.36	15.07	Date of Production: July 2021	

Environmental Product Analysis

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Allermuir **System Boundaries**

Sustain

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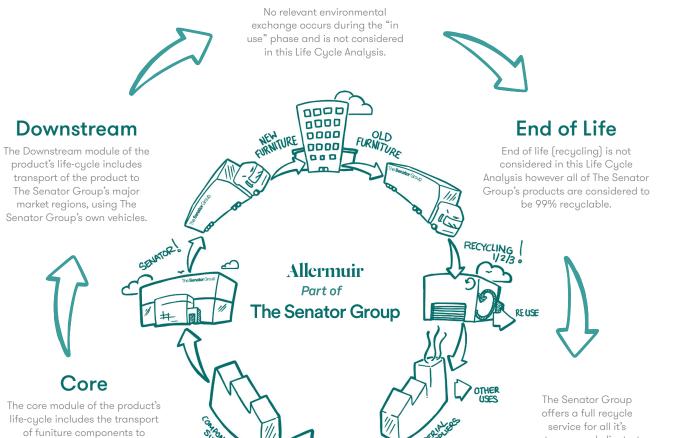
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In Use



The Senator Group's plants and the energy resources used during product assembly/packing/ loading and transport.

Upstream The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and

> the manufacture of usable components from those materials.



customers and clients, to

close the recycling loop.

Allermuir

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

System Boundaries

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

Upstream	Core	Downstream	Tota
125.28	20.11	3.91	149.3
0.56	0.08	0.02	0.6
0.04	0.00	0.00	0.0
0.00	0.00	0.00	0.0
0.06	0.01	0.00	0.0
	125.28 0.56 0.04 0.00	125.28 20.11 0.56 0.08 0.04 0.00 0.00 0.00	125.28 20.11 3.91 0.56 0.08 0.02 0.04 0.00 0.00 0.00 0.00 0.00

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	

Allermuir

Certificates

Eirst Cartified

Certificates

Description	Accreditation	i iist Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental 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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in every possible way.

Management

From extraction of raw page 2 for more details.

materials through to production to prove The Senator Group of the final Office Furniture unit (cradle to gate). See

Chain of Custody

Independent certification only purchases MFC/ MDF/Chipboard from manufacturers who can prove from sustainable sources.

Energy Management:

achieve this standard.

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Assessment Considerations

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Product Summary

Scope of Assessment:

Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

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Functional Unit:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years.

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

laterial	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	139.61
eel	33.90	30.09	Recycled Content (% By Weight):	46.05
ylon 6	0.33	0.29	Total Energy Consumption (Mj):	4117.29
FC	78.00	69.22	Recyclability (% By Weight):	99.00
cainless steel (304)	0.45	0.40		
			Date of Production: July 2021	

Environmental Product Analysis

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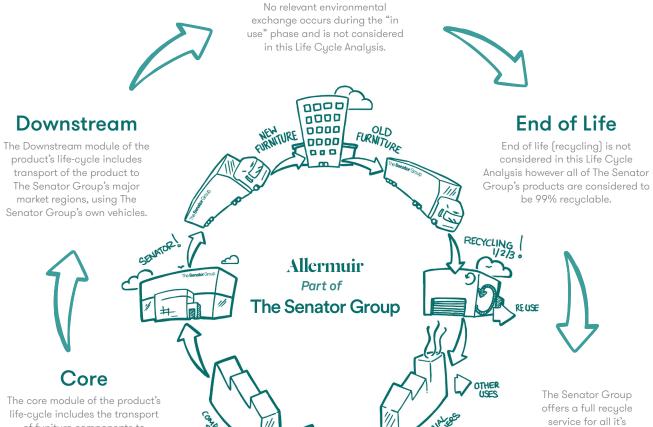
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close the recycling loop.

In Use



The Senator Group's major market regions, using The Senator Group's own vehicles.

The core module of the product's life-cycle includes the transport of funiture components to The Senator Group's plants and the energy resources used during product assembly/packing/ loading and transport.



The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Upstream

Allermuir

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

System Boundaries

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	lota
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	Tota
Global Warming (Kg CO2 Equivalents)	116.62	19.37	3.62	139.6
Acidification (Kg SO2 Equivalents)	0.50	0.08	0.02	0.60
Eutrophication (Kg PO43 Equivalents)	0.03	0.00	0.00	0.0
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.0
Photochemical Smog (Kg C2H4 Equivalents)	0.05	0.01	0.00	0.0

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 Product (% by weigh	
Material	Amount	Percent of Total	
Steel	50.00	15.0	
MFC	45.00	31.0	
Total		46.0	

Allermuir

Certificates

Certificates

Description Accreditation First Certified ISO 9001 Certified 1991 Quality Assurance Envronmental Management ISO 14001 Certified 2001 FSC® Chain of Custody Certified 2003 FISP Certified 2006 Sustainabilitu BS OHSAS 18001 Certified 2015 Health & Safety Standard













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Management

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

Chain of Custody

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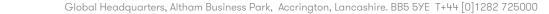
Assessment Considerations

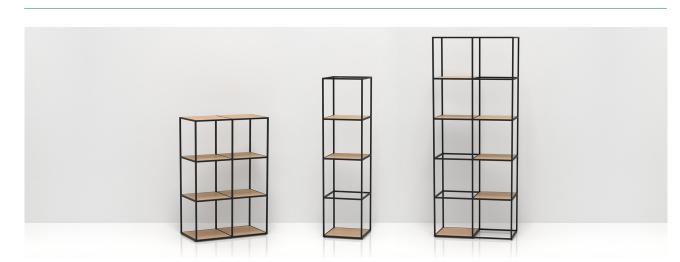
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Crate Divide - CRT6CB

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Product Summary

Scope of Assessment:

From extraction of raw materials through to production of the final A Desking solution designed and manufactured to last 15 years. Office Furniture unit (cradle to gate). See page 2 for more details.

Data Used:

design of Crate.

Primary data was used wherever possible including for energy use The scope of this declaration reflects that. during the core module.

All secondary data was obtained from the Ecolnvent database used in conjunction with SimaPro 7.3.2, using European data only.

Environmental Summaru

The primary market for our Office Furniture products is Europe.

Functional Unit:

Regional Market:

Design by Allermuir

				0	
Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	17	7.35
teel	2.70	100.00	Recycled Content (% By Weight):	50	0.00
			Total Energy Consumption (Mj):	330	0.30
			Recyclability (% By Weight):	99	9.00

Environmental Product Analysis

Material Declaration

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.)

Date of Production: July 2021

Allermuir **System Boundaries**

Sustain

The Senator Group has for many years acknowledged that the remanufacture or reintroduce the materials into our component key word upon which to focus our attention is Sustainability rather manufacturers supply chain. 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 abdicating 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

We believe in taking responsibility for our own actions ourselves, wherever possible, rather than relying on third parties, or

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.

In Use No relevant environmental exchange occurs during the "in use" phase and is not considered in this Life Cycle Analysis. **End of Life** Downstream The Downstream module of the End of life (recycling) is not product's life-cycle includes considered in this Life Cycle transport of the product to Analysis however all of The Senator The Senator Group's major Froup's products are considered to be 99% recyclable. market regions, using The Senator Group's own vehicles. Allermuir Part of The Senator Group Core The Senator Group The core module of the product's offers a full recycle life-cycle includes the transport service for all it's of funiture components to customers and clients, to The Senator Group's plants and close the recycling loop. the energy resources used during product assembly/packing/ loading and transport. Upstream

The upstream module of the product's life-

cycle includes the extraction and treatment

of raw materials, transport of the new

material to the component suppliers and the manufacture of usable components from those materials.

Allermuir **System Boundaries**

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	lota
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

Allermuir

Certificates

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Envronmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
Sustainability	FISP	Certified 2006
Health & Safety Standard	BS OHSAS 18001	Certified 2015













Chain

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.

Management

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

materials through to production to prove The Senator Group

of Custody

Independent certification only purchases MFC/ MDF/Chipboard from manufacturers who can prove they purchase their raw wood minimise energy usage. from sustainable sources.

External proof that The Senator Group has implemented a robust system to monitor all energy usage and have a process to continually

We believe The Senator Group was the first company in the furniture industry to achieve this standard.

Energy

Management:

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.

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.

Whilst recycling is the element which receives the most

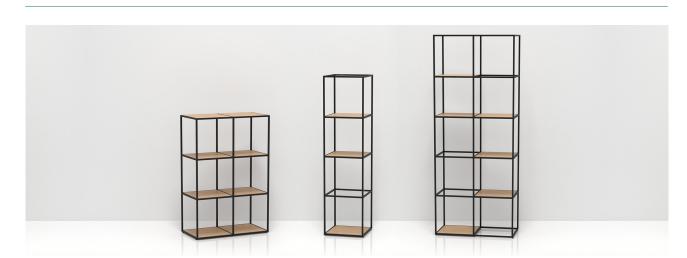
Assessment Considerations

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.

and finished products was assumed IMPACT 2002+ (v2.06) method. to be via 16-32t Euro 6 lorries.

• The transport of all materials, components • All LCA data was modelled using the



Crate Divide - CRTLK

with a prime function to to act as a room together in-line or at right angles to divider. Create spaces using the modular create different zones within existing design of Crate.

Product Summary

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Functional Unit:

Design by Allermuir

Regional Market:

The primary market for our Office Furniture products is Europe.

Environmental Summaru

Material Declaration

Material	Amount (kg)	Total (%)	Global Warming Potential (Kg Co2 Eq):	10.85
Steel	0.20	100.00	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

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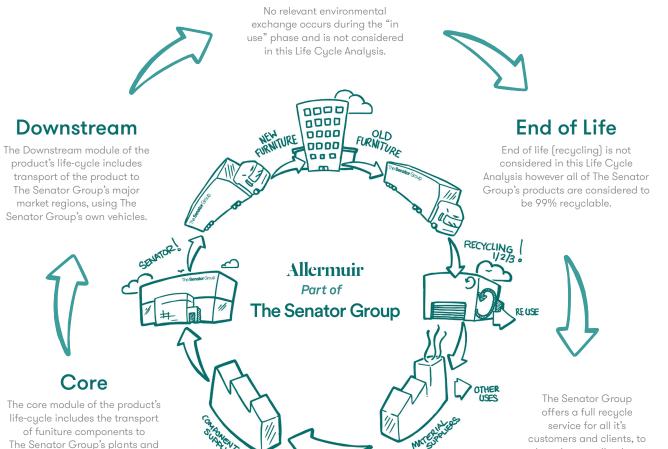
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close the recycling loop.

In Use



Upstream

The upstream module of the product's lifecycle includes the extraction and treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

Allermuir **System Boundaries**

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	Tota
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

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content Ir Product (% by weight)
Material	Amount	Percent of Tota
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Allermuir

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