FortySevenXL - FRSXLD12RD (MDF)

Design by Allermuir

These simple, elegant, pedestal tables are constructed with meticulous attention to detail, stability and quality.

Their incredibly versatile design gives the specifier greater freedom to mix and match with other Allermuir pieces.

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	41.60	66.30
Nylon 6	0.15	0.23
MDF	21.00	33.47

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	135.88
Recycled Content (% By Weight):	47.85
Total Energy Consumption (Mj):	3016.32
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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

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

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

Sustain

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

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

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

We harvest the resources back from the retired products then remanufacture or reintroduce the materials into our component manufacturers supply chain.

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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

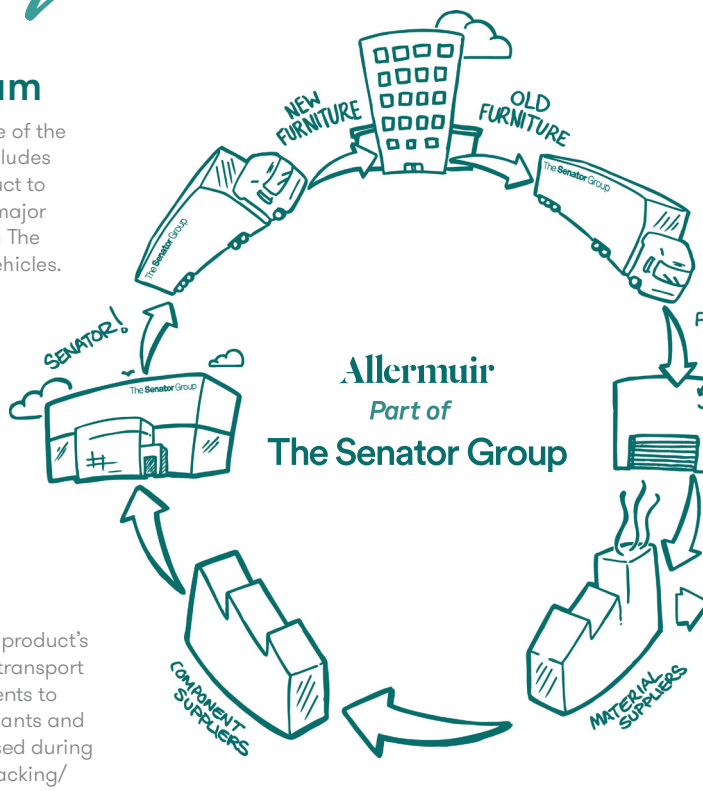
No relevant environmental exchange occurs during the "in use" phase and is not considered in this Life Cycle Analysis.

End of Life

End of life (recycling) is not considered in this Life Cycle Analysis however all of The Senator Group's products are considered to be 99% recyclable.

Downstream

The Downstream module of the product's life-cycle includes transport of the product to The Senator Group's major market regions, using The Senator Group's own vehicles.



Core

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The Senator Group offers a full recycle service for all it's customers and clients, to close the recycling loop.

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	30.81	0.56	0.01	31.38
From the Ground	119.65	12.04	2.32	134.01
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	557.04	14.75	0.06	571.85
Hydro	80.13	4.78	0.36	85.27
Solar	0.10	0.00	0.00	0.10
Wind	6.78	1.42	0.02	8.22
Non-Renewable Energy (MJ)	2042.64	273.93	34.31	2350.88
Total	2686.69	294.88	34.75	3016.32

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	118.50	15.36	2.02	135.88
Acidification (Kg SO2 Equivalents)	0.49	0.06	0.01	0.56
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	130.11	530.92	197.18	858.21
To the Ground	0.13	0.06	0.02	0.21
To the Water	15.79	9.05	2.93	27.77

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	33.00
MDF	45.00	14.85
Total		47.85

Certificates

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

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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.

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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.

FortySevenXL - FRSXLD12RD (MFC)

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:

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	41.60	69.98
Nylon 6	0.15	0.24
MFC	17.70	29.78

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	127.99
Recycled Content (% By Weight):	48.50
Total Energy Consumption (Mj):	2632.55
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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In Use

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End of Life

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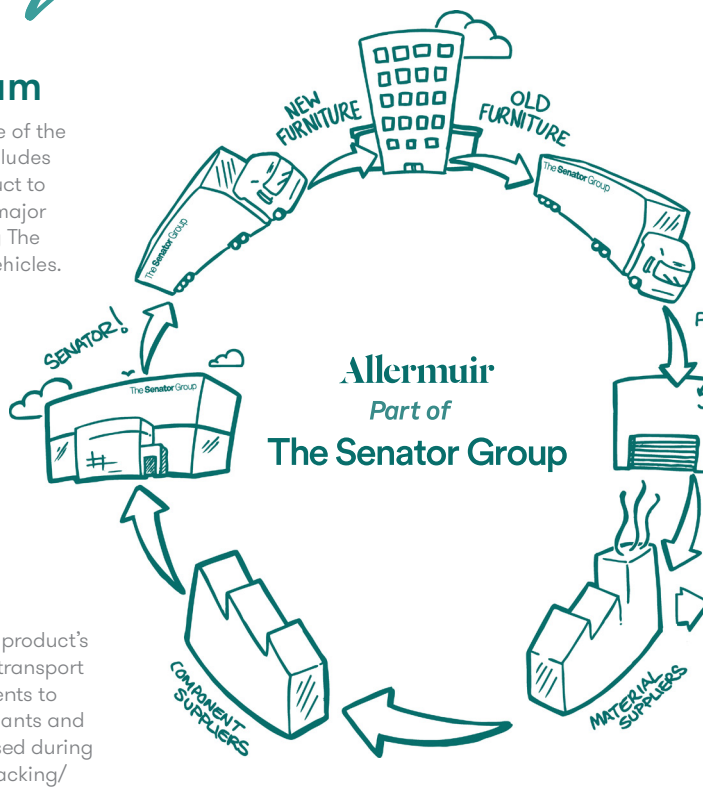

Core

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The Senator Group offers a full recycle service for all it's customers and clients, to close the recycling loop.

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	32.49	1.34	0.01	33.84
From the Ground	134.01	21.89	2.78	158.68
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	358.02	14.74	0.06	372.82
Hydro	75.82	4.73	0.34	80.89
Solar	0.09	0.00	0.00	0.09
Wind	6.15	1.42	0.01	7.58
Non-Renewable Energy (MJ)	1869.24	269.42	32.51	2171.17
Total	2309.32	290.31	32.92	2632.55

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	110.98	15.10	1.91	127.99
Acidification (Kg SO2 Equivalents)	0.46	0.06	0.01	0.53
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	1117.59	504.99	186.81	809.40
To the Ground	0.13	0.06	0.02	0.21
To the Water	15.13	8.67	2.77	26.57

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	35.00
MFC	45.00	13.50
Total		48.50

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.

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FortySevenXL - FRSXLD12SQ (MDF)

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Product Summary

Scope of Assessment:

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Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

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

Material Declaration

Material	Amount (kg)	Total (%)
Steel	50.20	65.07
Nylon 6	0.15	0.19
MDF	26.80	34.74

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	162.69
Recycled Content (% By Weight):	48.25
Total Energy Consumption (Mj):	3654.84
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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In Use

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End of Life

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Downstream

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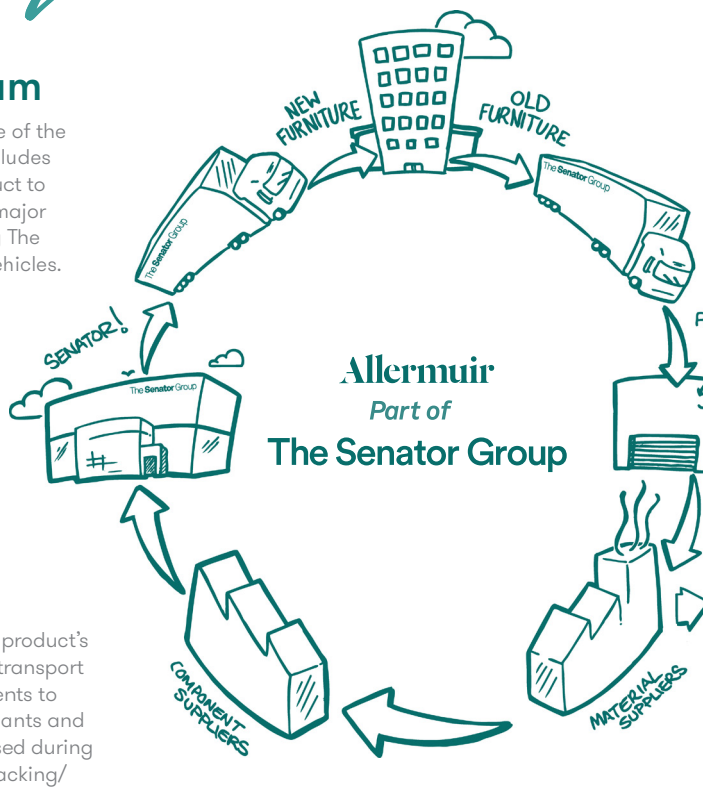

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	64.22	1.34	0.01	65.57
From the Ground	167.26	23.96	3.61	194.83
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	709.53	14.79	0.08	724.40
Hydro	97.14	4.99	0.045	102.58
Solar	0.12	0.00	0.00	0.12
Wind	8.24	1.43	0.02	9.69
Non-Renewable Energy (MJ)	2482.24	293.62	42.19	2818.05
Total	3297.27	314.83	42.74	3654.84

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	143.69	16.52	2.48	162.69
Acidification (Kg SO2 Equivalents)	0.59	0.07	0.01	0.067
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)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	158.27	644.05	242.43	1044.76
To the Ground	0.016	0.07	0.03	0.26
To the Water	19.13	10.74	3.60	33.46

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	32.50
MDF	45.00	15.75
Total		48.25

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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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	50.20	68.91
Nylon 6	0.15	0.20
MFC	22.50	30.89

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	152.57
Recycled Content (% By Weight):	48.45
Total Energy Consumption (Mj):	316247
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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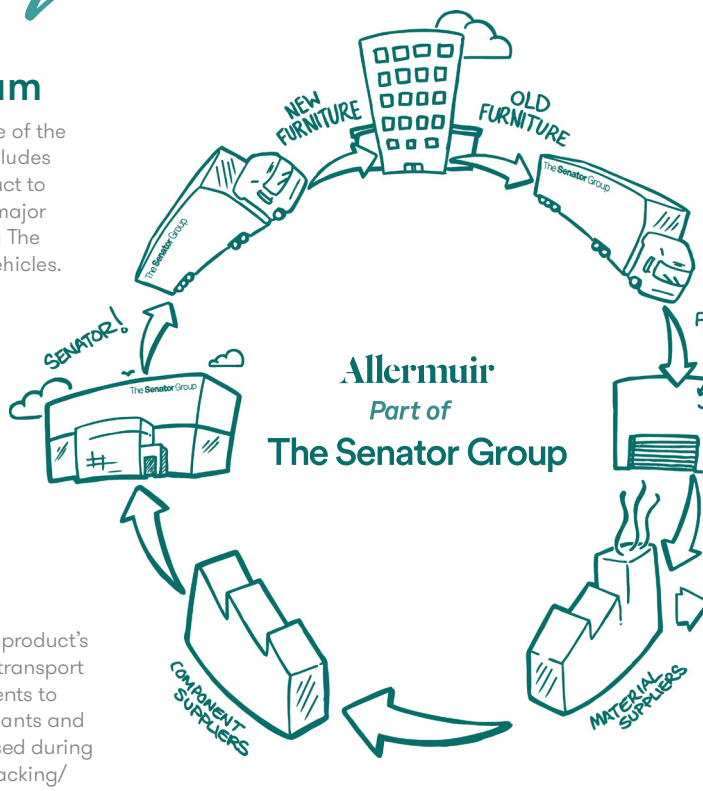

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	41.17	1.34	0.01	42.52
From the Ground	161.91	23.46	3.41	188.78
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	453.85	14.77	0.07	468.69
Hydro	91.62	4.92	0.42	96.96
Solar	0.11	0.00	0.00	0.11
Wind	7.44	1.43	0.02	8.89
Non-Renewable Energy (MJ)	2260.24	287.74	39.84	2587.82
Total	2813.26	308.86	40.35	3162.47

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	134.06	16.17	2.34	152.57
Acidification (Kg SO2 Equivalents)	0.55	0.06	0.01	0.62
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)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	142.26	610.27	228.92	981.44
To the Ground	0.15	0.07	0.03	0.25
To the Water	18.28	10.23	3.40	31.91

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	34.50
MFC	45.00	13.95
Total		48.45

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

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.

FortySevenXL - FRSXLD1210RC (MDF)

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:

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	50.20	69.10
Nylon 6	0.15	0.20
MDF	22.30	30.70

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	159.25
Recycled Content (% By Weight):	48.45
Total Energy Consumption (Mj):	3461.67
Recyclability (% By Weight):	99.00

Date of Production: May 2023

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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Sustain

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In Use

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End of Life

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Downstream

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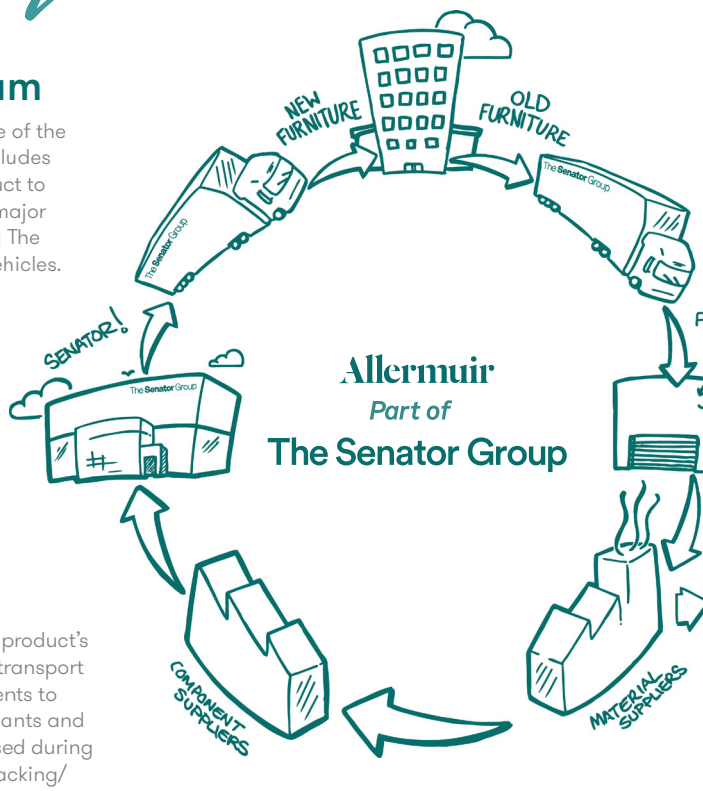

Core

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The Senator Group offers a full recycle service for all it's customers and clients, to close the recycling loop.

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	53.83	1.34	0.01	55.18
From the Ground	165.47	23.44	3.40	192.31
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	594.25	14.77	0.07	609.09
Hydro	95.69	4.92	0.42	101.03
Solar	0.12	0.00	0.00	0.12
Wind	8.04	1.43	0.02	9.49
Non-Renewable Energy (MJ)	2414.74	287.47	39.73	2741.94
Total	3112.84	308.59	40.24	3461.67

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	140.76	16.16	2.33	159.25
Acidification (Kg SO2 Equivalents)	0.58	0.06	0.01	0.65
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)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	153.73	608.70	228.29	990.72
To the Ground	0.16	0.07	0.03	0.25
To the Water	18.89	10.21	3.39	32.49

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	34.50
MDF	45.00	13.95
Total		48.45

Certificates

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

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FortySevenXL - FRSXLD1210RC (MFC)

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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	50.20	72.71
Nylon 6	0.15	0.21
MFC	18.70	27.08

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	150.83
Recycled Content (% By Weight):	48.65
Total Energy Consumption (Mj):	3051.35
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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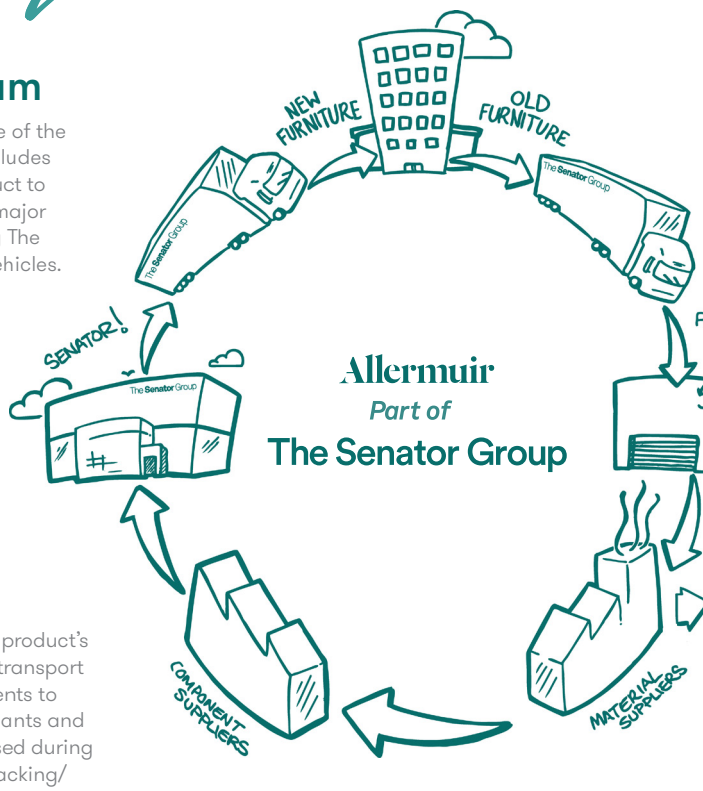

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	34.61	1.34	0.01	35.96
From the Ground	161.01	23.01	3.23	187.25
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	381.08	14.76	0.07	395.91
Hydro	91.09	4.87	0.40	96.36
Solar	0.11	0.00	0.00	0.11
Wind	7.37	1.43	0.02	8.82
Non-Renewable Energy (MJ)	2229.84	282.55	37.76	2550.15
Total	2709.49	303.61	38.25	3051.35

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	132.74	15.87	2.22	150.83
Acidification (Kg SO2 Equivalents)	0.55	0.06	0.01	0.62
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)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	140.39	580.41	216.98	937.79
To the Ground	0.15	0.07	0.03	0.24
To the Water	18.18	9.79	3.22	31.19

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	36.50
MFC	45.00	12.15
Total		48.65

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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FortySevenXL - FRSXLD2409RC (MDF)

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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	100.40	71.26
Nylon 6	0.29	0.20
MDF	40.20	28.53

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	304.82
Recycled Content (% By Weight):	48.55
Total Energy Consumption (Mj):	6526.49
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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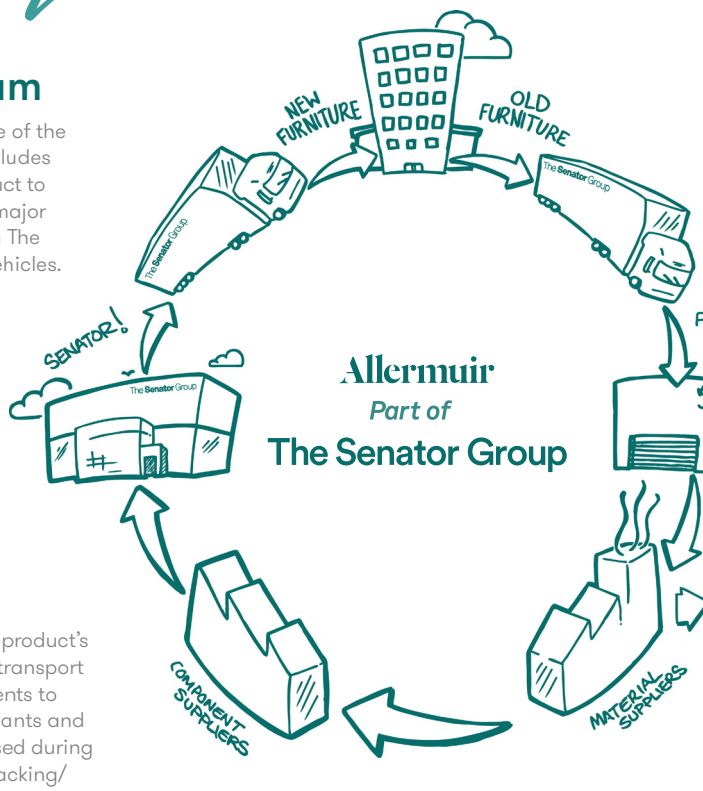

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	97.51	1.36	0.01	98.88
From the Ground	329.19	31.41	6.59	367.19
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1075.80	14.95	0.14	1090.89
Hydro	189.96	5.91	0.81	196.68
Solar	0.23	0.00	0.00	0.23
Wind	15.89	1.47	0.03	17.39
Non-Renewable Energy (MJ)	4763.48	380.77	77.05	5221.30
Total	6045.36	403.10	78.03	6526.49

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	278.65	21.64	4.53	304.82
Acidification (Kg SO2 Equivalents)	1.15	0.09	0.02	1.26
Eutrophication (Kg PO43 Equivalents)	0.08	0.00	0.00	0.08
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.08	0.01	0.00	0.09

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	303.03	1144.86	442.76	1890.65
To the Ground	0.31	0.13	0.05	0.49
To the Water	37.54	18.17	6.58	62.29

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	35.50
MDF	45.00	13.05
otal		48.55

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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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	100.40	74.65
Nylon 6	0.29	0.22
MFC	33.80	25.13

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	289.67
Recycled Content (% By Weight):	48.75
Total Energy Consumption (Mj):	5789.42
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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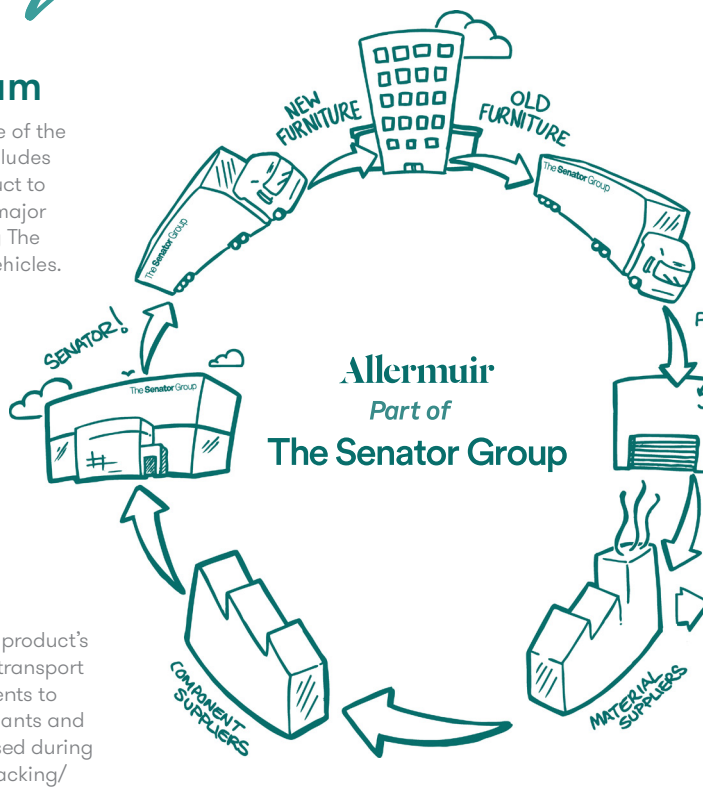

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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	30.81	0.56	0.01	31.38
From the Ground	119.65	12.04	2.32	134.01
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	693.23	14.93	0.14	708.30
Hydro	181.68	5.82	0.78	188.28
Solar	0.21	0.00	0.00	0.21
Wind	14.68	1.47	0.03	16.18
Non-Renewable Energy (MJ)	4430.88	372.02	73.55	4876.45
Total	5320.68	394.24	74.50	5789.42

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	264.23	21.12	4.32	289.67
Acidification (Kg SO2 Equivalents)	1.09	0.09	0.02	1.20
Eutrophication (Kg PO43 Equivalents)	0.08	0.00	0.00	0.08
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.08	0.01	0.00	0.09

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	279.03	1094.58	422.64	1796.25
To the Ground	0.30	0.13	0.05	0.48
To the Water	36.27	17.43	6.28	59.97

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	37.50
MFC	45.00	11.25
Total		48.75

Certificates

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

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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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- 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.

FortySevenXL - FRSXLD2410RC (MDF)

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:

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	100.40	69.15
Nylon 6	0.29	0.20
MDF	44.50	30.65

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	308.09
Recycled Content (% By Weight):	48.45
Total Energy Consumption (Mj):	6711.06
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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In Use

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End of Life

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Downstream

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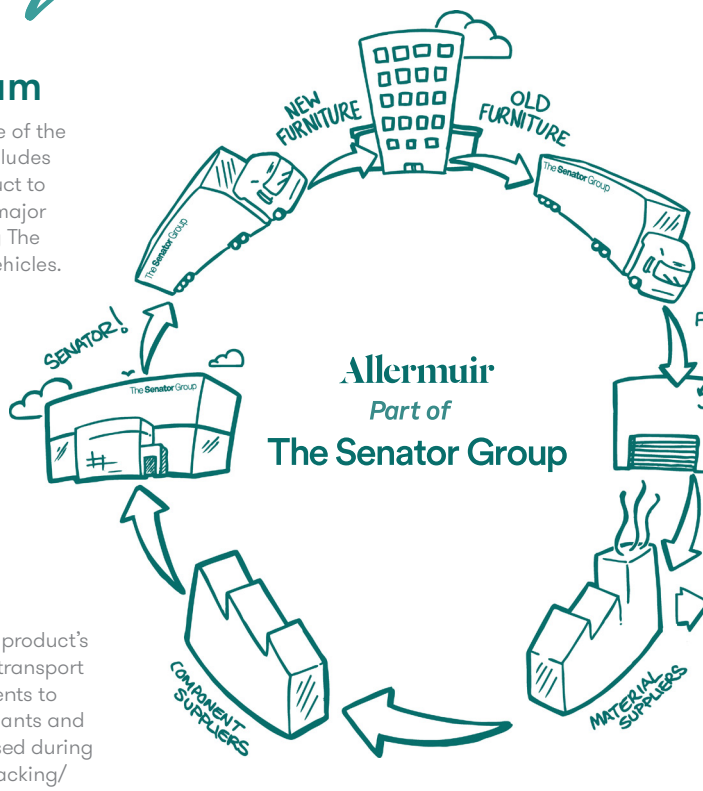

Core

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The Senator Group offers a full recycle service for all it's customers and clients, to close the recycling loop.

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	107.44	1.36	0.02	108.82
From the Ground	330.90	31.92	6.79	369.61
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1185.95	14.96	0.15	1201.06
Hydro	191.34	5.97	0.84	198.15
Solar	0.23	0.00	0.00	0.23
Wind	16.08	1.47	0.04	17.59
Non-Renewable Energy (MJ)	4827.98	386.65	79.40	5294.03
Total	6221.58	409.05	80.43	6711.06

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	281.45	21.98	4.66	308.09
Acidification (Kg SO2 Equivalents)	1.16	0.09	0.02	1.27
Eutrophication (Kg PO43 Equivalents)	0.08	0.00	0.00	0.08
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.08	0.00	0.00	0.08

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	307.37	1178.64	456.27	1942.28
To the Ground	0.31	0.14	0.05	0.50
To the Water	37.77	18.68	6.78	63.22

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	34.50
MDF	45.00	13.95
Total		48.45

Certificates

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

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Product Summary

Scope of Assessment:

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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	100.40	72.65
Nylon 6	0.29	0.21
MFC	37.50	27.14

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	291.38
Recycled Content (% By Weight):	48.65
Total Energy Consumption (Mj):	5897.62
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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In Use

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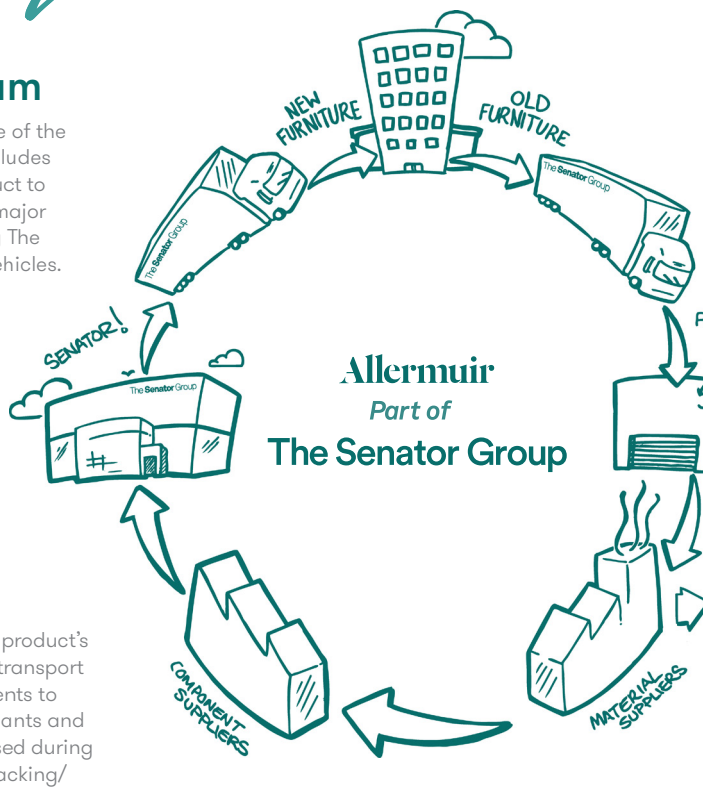

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	30.81	0.56	0.01	31.38
From the Ground	119.65	12.04	2.32	134.01
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	764.08	14.94	0.14	779.16
Hydro	182.20	5.87	0.80	188.87
Solar	0.21	0.00	0.00	0.21
Wind	14.75	1.47	0.03	16.25
Non-Renewable Energy (MJ)	4460.48	377.08	75.57	4913.13
Total	5421.72	399.36	76.54	5897.62

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	265.52	21.42	4.44	291.38
Acidification (Kg SO2 Equivalents)	1.10	0.09	0.02	1.21
Eutrophication (Kg PO43 Equivalents)	0.08	0.00	0.00	0.08
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.08	0.01	0.00	0.09

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	280.84	1123.65	434.27	1838.76
To the Ground	0.30	0.13	0.05	0.48
To the Water	36.36	17.86	6.45	60.67

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	36.50
MFC	45.00	12.15
Total		48.65

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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Scope of Assessment:

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Data Used:

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Functional Unit:

A Desking solution designed and manufactured to last 15 years.

Regional Market:

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

Material Declaration

Material	Amount (kg)	Total (%)
Steel	36.90	70.90
Nylon 6	0.15	0.28
MDF	15.00	28.82

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	119.06
Recycled Content (% By Weight):	48.55
Total Energy Consumption (Mj):	2545.89
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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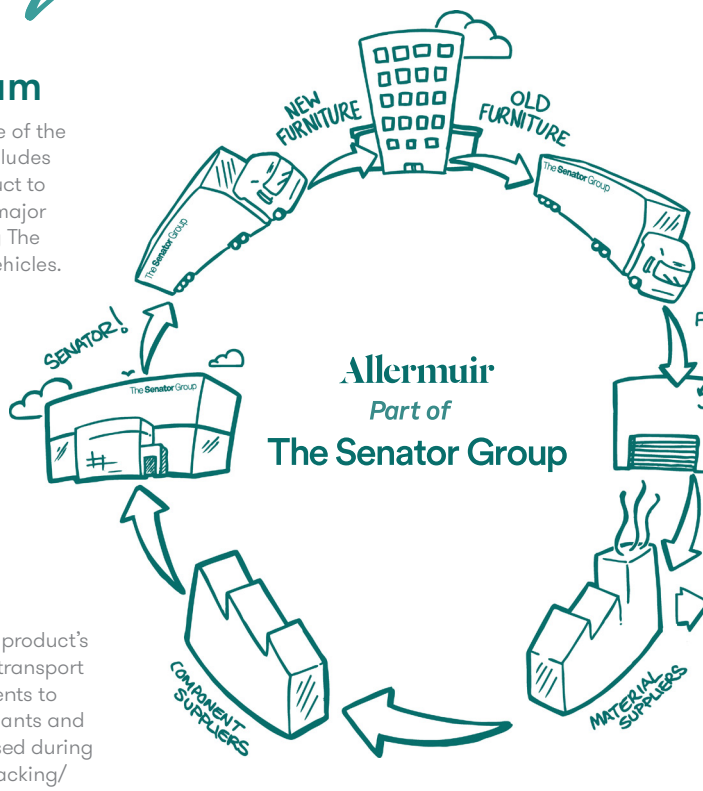

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	36.36	1.33	0.01	37.70
From the Ground	121.17	21.03	2.43	144.63
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	401.21	14.72	0.05	415.98
Hydro	69.93	4.62	0.30	74.85
Solar	0.08	0.00	0.00	0.08
Wind	5.85	1.42	0.01	7.28
Non-Renewable Energy (MJ)	1759.94	259.30	28.46	2047.70
Total	2237.01	280.06	28.82	2545.89

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	102.89	14.50	1.67	119.06
Acidification (Kg SO2 Equivalents)	0.42	0.06	0.01	0.45
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	111.87	446.85	163.56	722.28
To the Ground	0.11	0.05	0.02	0.18
To the Water	13.82	7.81	2.43	24.05

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	35.50
MDF	45.00	13.05
Total		48.55

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
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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	36.90	74.48
Nylon 6	0.15	0.29
MFC	12.50	25.23

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	113.36
Recycled Content (% By Weight):	48.25
Total Energy Consumption (Mj):	2267.59
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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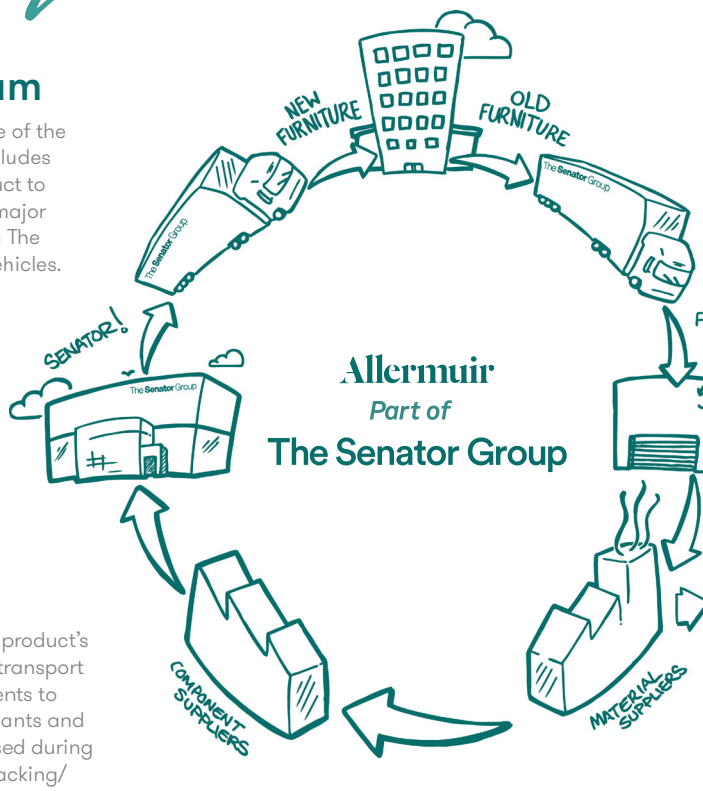

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Upstream

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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	23.30	1.33	0.01	24.64
From the Ground	118.15	20.73	2.32	141.20
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	256.31	14.71	0.05	271.07
Hydro	66.82	4.59	0.29	71.70
Solar	0.08	0.00	0.00	0.08
Wind	5.40	1.41	0.01	6.82
Non-Renewable Energy (MJ)	1634.94	255.89	27.09	1917.92
Total	1963.55	276.60	27.44	2267.59

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	97.47	14.30	1.59	113.36
Acidification (Kg SO2 Equivalents)	0.40	0.06	0.01	0.47
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	102.85	427.21	155.70	685.77
To the Ground	0.11	0.05	0.02	0.18
To the Water	13.34	7.51	2.31	2317

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	37.00
MFC	45.00	11.25
Total		48.25

Certificates

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

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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

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.

FortySevenXL - FRSXLW10RD (MDF)

Design by Allermuir

These simple, elegant, pedestal tables are constructed with meticulous attention to detail, stability and quality.

Their incredibly versatile design gives the specifier greater freedom to mix and match with other Allermuir pieces.

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	41.20	73.64
Nylon 6	0.15	0.26
MDF	14.60	26.10

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	129.95
Recycled Content (% By Weight):	48.70
Total Energy Consumption (Mj):	2723.49
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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

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

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Sustain

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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.

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

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In Use

No relevant environmental exchange occurs during the "in use" phase and is not considered in this Life Cycle Analysis.

End of Life

End of life (recycling) is not considered in this Life Cycle Analysis however all of The Senator Group's products are considered to be 99% recyclable.

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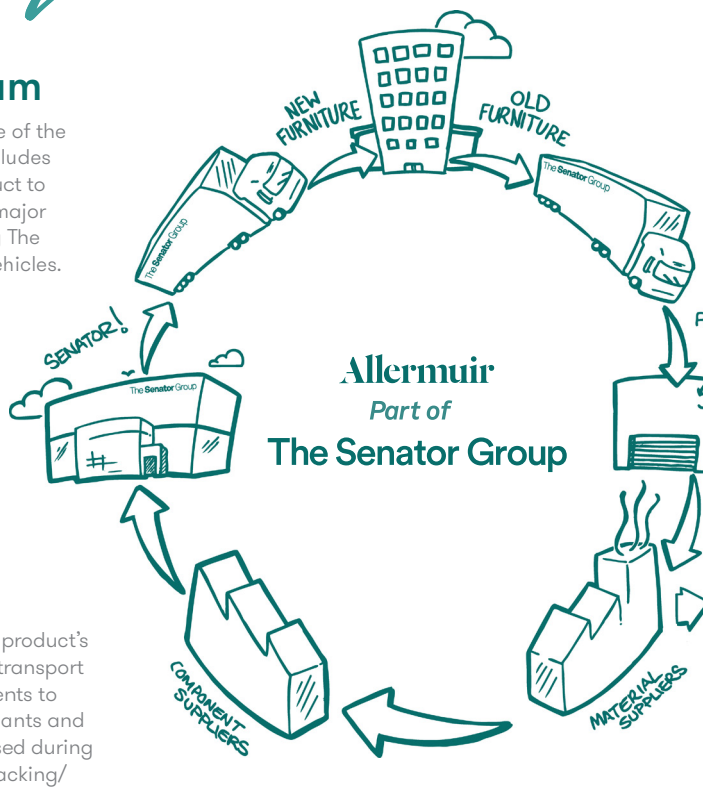
The Downstream module of the product's life-cycle includes transport of the product to The Senator Group's major market regions, using The Senator Group's own vehicles.



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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.

System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	35.64	1.33	0.01	36.98
From the Ground	134.39	21.48	2.62	158.49
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	392.91	14.73	0.06	407.70
Hydro	77.36	4.68	0.32	82.36
Solar	0.09	0.00	0.00	0.09
Wind	6.44	1.42	0.01	7.87
Non-Renewable Energy (MJ)	11930.24	264.64	30.59	2225.47
Total	2407.04	285.47	30.98	2723.49

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	113.33	14.82	1.80	129.95
Acidification (Kg SO2 Equivalents)	0.47	0.06	0.01	0.54
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	122.62	477.49	175.81	775.92
To the Ground	0.13	0.05	0.02	0.20
To the Water	15.31	8.26	2.61	26.13

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	37.00
MDF	45.00	11.70
Total		48.70

Certificates

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

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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	41.20	76.80
Nylon 6	0.15	0.27
MFC	12.30	22.93

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	124.46
Recycled Content (% By Weight):	48.85
Total Energy Consumption (Mj):	2456.54
Recyclability (% By Weight):	99.00

Date of Production: May 2023

Environmental Product Analysis

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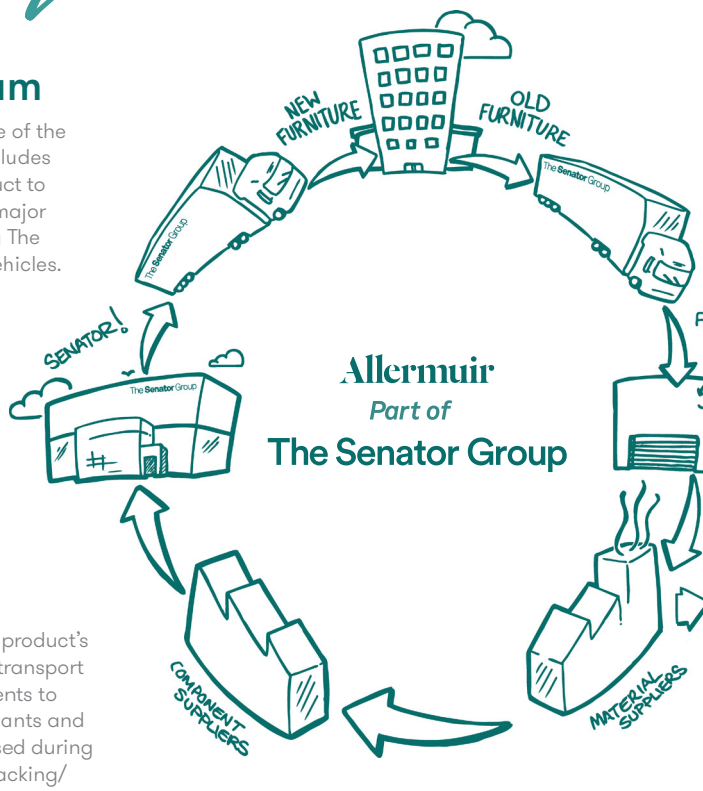

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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	23.15	1.33	0.01	24.49
From the Ground	131.49	21.21	2.51	155.21
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	254.44	14.73	0.06	269.23
Hydro	74.36	4.65	0.31	79.32
Solar	0.09	0.00	0.00	0.09
Wind	6.00	1.42	0.01	7.43
Non-Renewable Energy (MJ)	1809.64	261.49	29.34	2100.47
Total	2144.53	282.29	29.72	2456.54

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	108.11	14.63	1.72	124.46
Acidification (Kg SO2 Equivalents)	0.45	0.06	0.01	0.52
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	113.91	459.42	168.58	741.92
To the Ground	0.012	0.05	0.02	0.20
To the Water	14.85	7.99	2.50	25.34

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	**Amount**	**Percent of Total**
Steel	50.00	38.50
MFC	45.00	10.35
Total		48.85

Certificates

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