



Turo Really - TRT10RDR

Design by Pearson Lloyd

A collaboration with Kvatat creating the exclusive Really top material - a sustainable surface made from textile waste.

This environmentally conscious material is available in three colours. Soft and warm to the touch, its surface is suitable for working, dining and relaxed settings.

Product Summary

Scope of Assessment:

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

Data Used:

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

Functional Unit:

A Table 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 (%)
Fabric	11.50	54.81
Steel	4.28	20.40
Aluminium Extrusion	3.72	17.73
Aluminium Castings	1.28	6.10
Nylon 6	0.20	0.95

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	99.58
Recycled Content (% By Weight):	61.50
Total Energy Consumption (Mj):	2893.66
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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

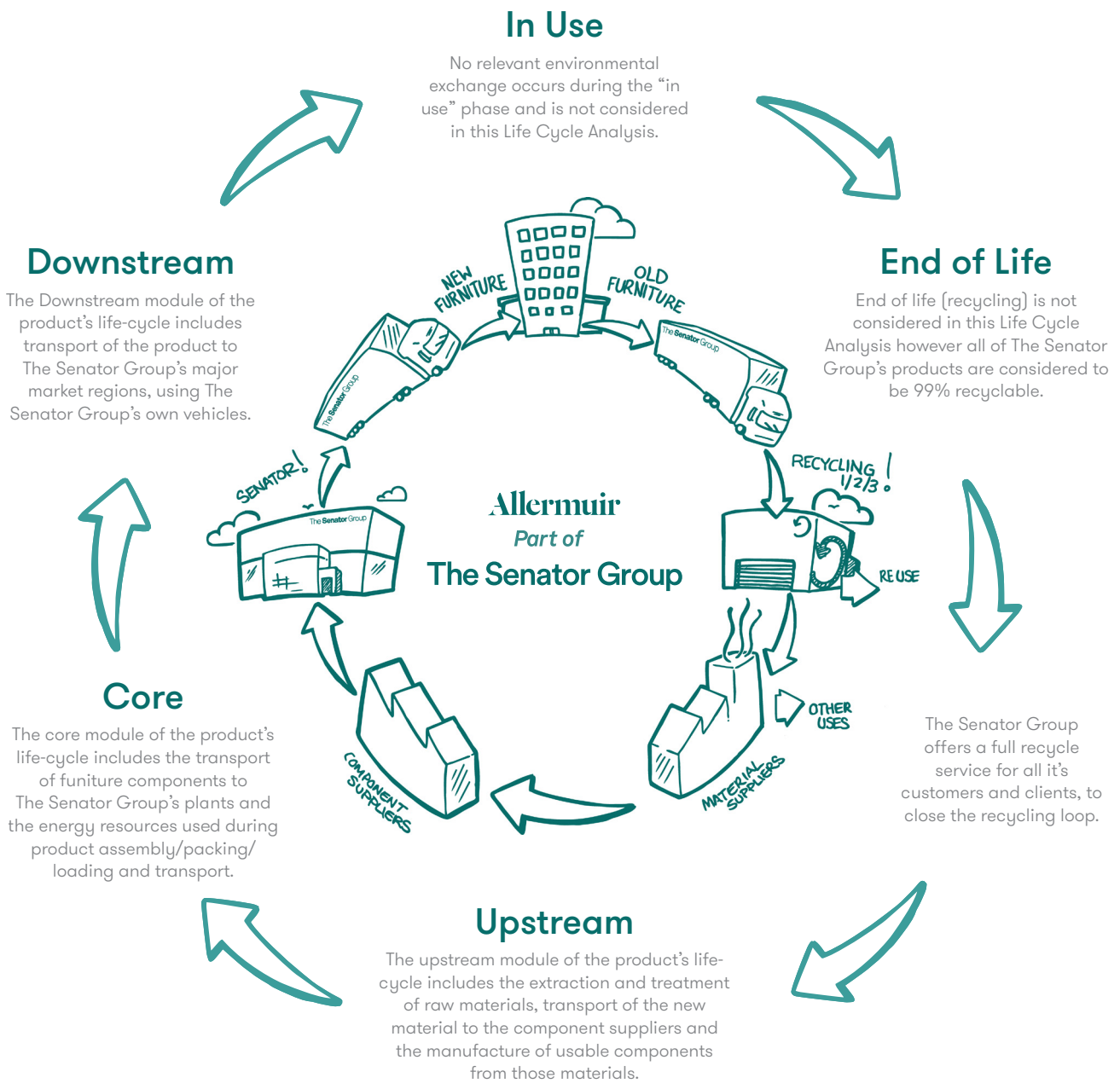
Compilation and processing of LCA data performed by Dr. Dan Skinner (Oakdene Hollins Ltd.)

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

Sustain

The Senator Group has for many years acknowledged that the key word upon which to focus our attention is Sustainability rather than Recyclability in pure isolation. Our business takes a truly holistic approach to the design, manufacture, supply and reclamation of our products. We see this as a cyclical process. From design to manufacture, use and reclamation we aspire to minimise all environmental impacts of The Senator Group's products and processes. We harvest the resources back from the retired products then

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



System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	91.28	1.33	0.00	92.61
From the Ground	86.66	17.40	0.98	105.04
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1005.15	14.64	0.02	1019.81
Hydro	55.39	4.17	0.12	59.68
Solar	0.09	0.00	0.00	0.09
Wind	6.49	1.40	0.01	7.90
Non-Renewable Energy (MJ)	1577.88	216.83	11.47	1806.18
Total	2645.00	237.04	11.62	2893.66

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	86.90	12.01	0.67	99.58
Acidification (Kg SO2 Equivalents)	0.71	0.04	0.00	0.75
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)	0.02	0.00	0.00	0.02

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	137.56	202.79	65.93	406.29
To the Ground	0.05	0.02	0.01	0.08
To the Water	11.65	4.18	0.98	16.81

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	27.50
Steel	50.00	10.00
Aluminium Extrusion	100.00	18.00
Aluminium Castings	100.00	6.00
Total		61.50

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
Occupational Health & Safety Management	ISO 45001	Certified 2021



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

FISP (Furniture Industry Sustainability Programme)

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

Environmental Management

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

Chain of Custody

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

Energy Management:

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

The Three R’s

The Senator Group is committed to continually improving the sustainability of all environmental aspects within our business.

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Reduce, Reuse and Recycle.

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

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

Assessment Considerations

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

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



Turo Really - TRT10SQR

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Product Summary

Scope of Assessment:

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Data Used:

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Functional Unit:

A Table 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 (%)
Fabric	14.60	54.89
Steel	6.80	25.56
Aluminium Extrusion	3.72	13.98
Aluminium Castings	1.28	4.81
Nylon 6	0.20	0.75

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	124.69
Recycled Content (% By Weight):	59.50
Total Energy Consumption (Mj):	3629.76
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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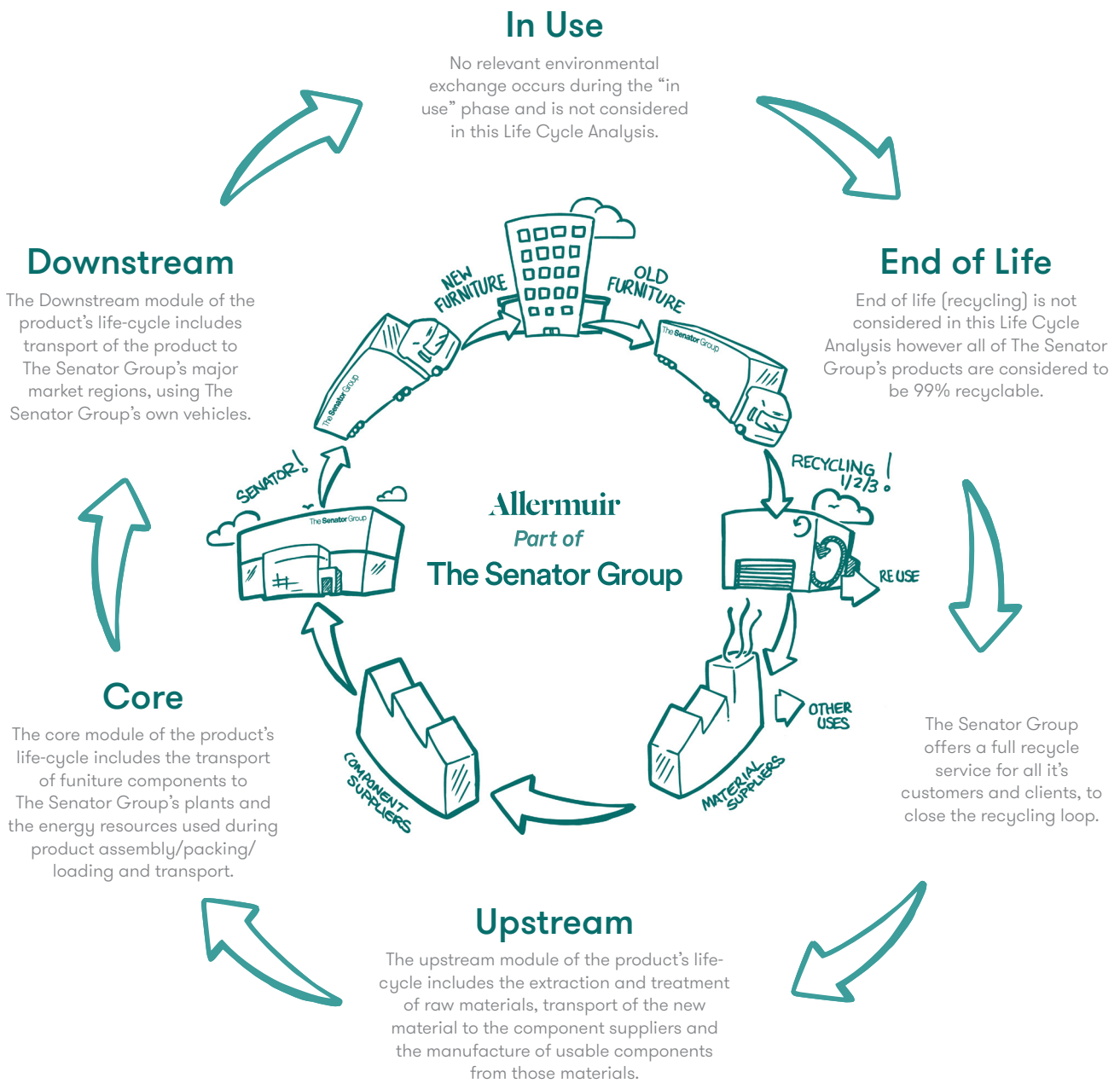
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	115.82	1.33	0.00	117.15
From the Ground	113.08	18.05	1.24	132.37
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1275.27	14.66	0.03	1289.96
Hydro	70.53	4.26	0.15	74.94
Solar	0.11	0.00	0.00	0.11
Wind	8.27	1.40	0.01	9.68
Non-Renewable Energy (MJ)	2016.00	224.52	14.55	2255.07
Total	3370.18	244.84	14.74	3629.76

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	111.38	12.46	0.85	124.69
Acidification (Kg SO2 Equivalents)	0.90	0.05	0.00	0.95
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)	0.03	0.00	0.00	0.03

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	175.90	246.95	83.59	506.44
To the Ground	0.07	0.03	0.01	0.10
To the Water	14.94	4.84	1.24	21.02

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	27.50
Steel	50.00	13.00
Aluminium Extrusion	100.00	14.00
Aluminium Castings	100.00	5.00
Total		59.50

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
Occupational Health & Safety Management	ISO 45001	Certified 2021



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Environmental Management

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Chain of Custody

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Energy Management:

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

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



Turo Really - TRT1608RCR

Design by Pearson Lloyd

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Product Summary

Scope of Assessment:

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

Data Used:

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

Functional Unit:

A Table 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 (%)
Fabric	18.70	57.47
Steel	8.44	25.94
Aluminium Extrusion	3.72	11.43
Aluminium Castings	1.28	3.93
Nylon 6	0.40	1.23

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	155.23
Recycled Content (% By Weight):	56.50
Total Energy Consumption (Mj):	4557.84
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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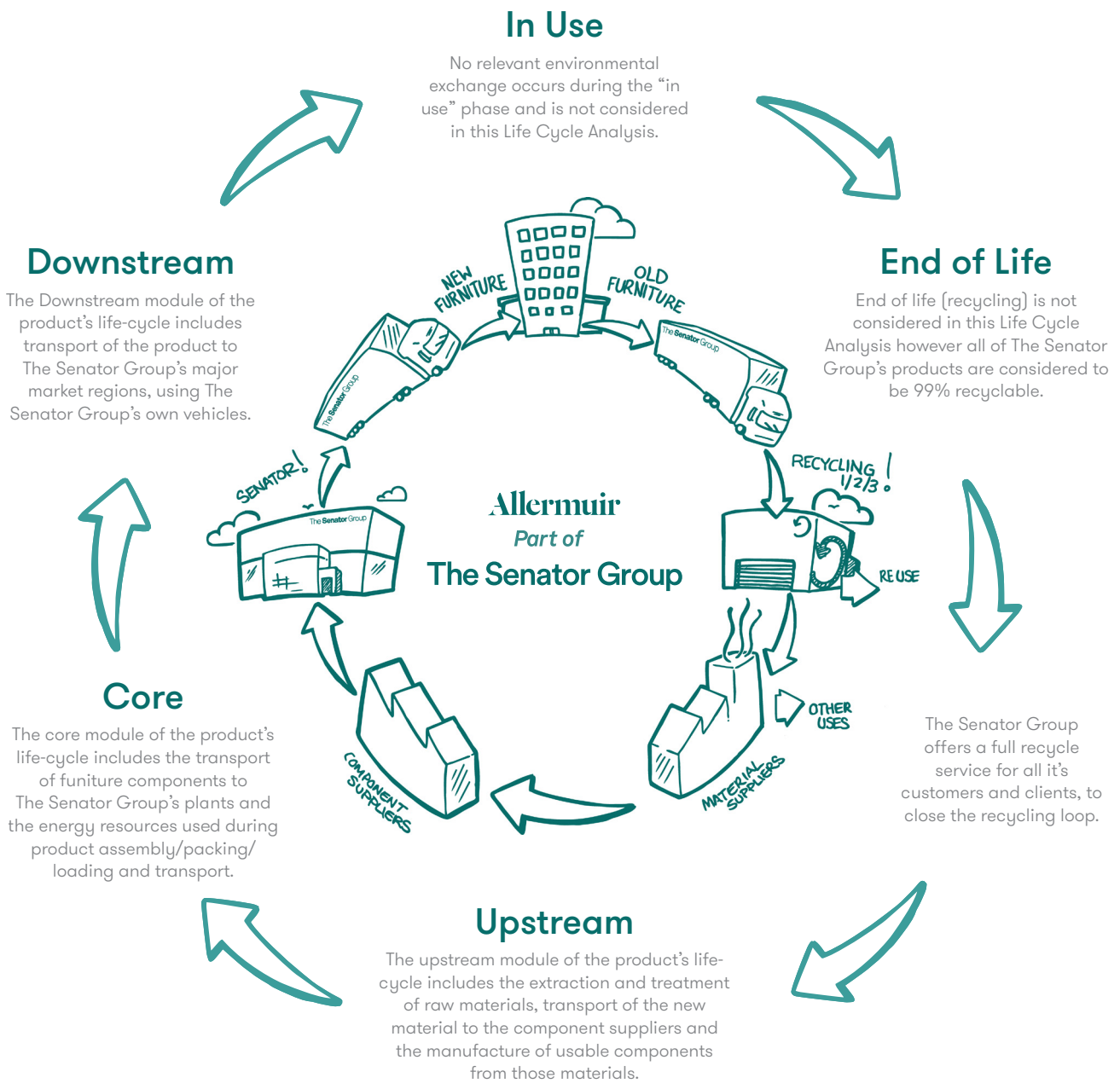
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	148.21	1.33	0.00	149.54
From the Ground	143.27	18.75	1.52	163.54
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1632.00	14.67	0.03	1646.70
Hydro	87.77	4.34	0.19	92.30
Solar	0.14	0.00	0.00	0.14
Wind	10.41	1.40	0.01	11.82
Non-Renewable Energy (MJ)	2556.44	232.64	17.80	2806.88
Total	4286.76	253.05	18.03	4557.84

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	141.24	12.94	1.05	155.23
Acidification (Kg SO2 Equivalents)	1.15	0.05	0.01	1.21
Eutrophication (Kg PO43 Equivalents)	0.05	0.00	0.00	0.05
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.04	0.00	0.00	0.04

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	223.61	293.61	102.26	619.48
To the Ground	0.08	0.03	0.01	0.13
To the Water	18.74	5.53	1.52	25.79

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	28.50
Steel	50.00	13.00
Aluminium Extrusion	100.00	11.00
Aluminium Castings	100.00	4.00
Total		56.50

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

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Chain of Custody

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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.
- 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.



Turo Really - TRT2209RCR

Design by Pearson Lloyd

A collaboration with Kvatat creating the exclusive Really top material - a sustainable surface made from textile waste.

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Product Summary

Scope of Assessment:

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

Data Used:

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

Functional Unit:

A Table 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 (%)
Fabric	29.00	63.60
Steel	11.20	24.56
Aluminium Extrusion	3.72	8.16
Aluminium Castings	1.28	2.81
Nylon 6	0.40	0.88

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	224.03
Recycled Content (% By Weight):	55.50
Total Energy Consumption (Mj):	6749.27
Recyclability (% By Weight):	99.00

Date of Production: July 2023

Environmental Product Analysis

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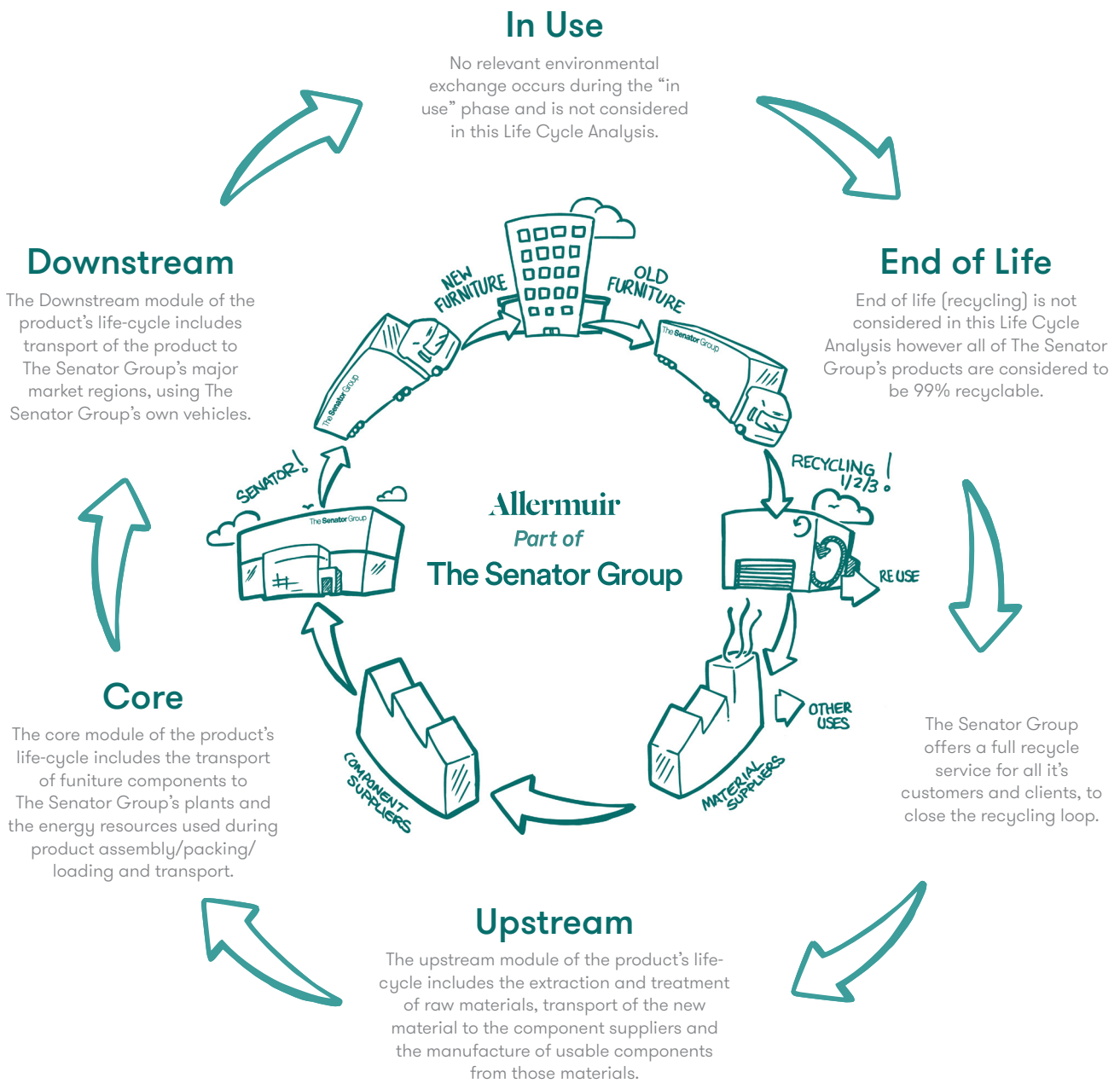
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System Boundaries

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	229.47	1.33	0.00	230.80
From the Ground	213.58	20.27	2.13	235.98
From the Water	0.00	0.00	0.00	0.00

Energy Consumption

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	2526.95	14.70	0.05	2541.70
Hydro	128.18	4.53	0.26	132.97
Solar	0.21	0.00	0.00	0.21
Wind	15.54	1.41	0.00	16.96
Non-Renewable Energy (MJ)	3782.00	250.49	24.94	4057.43
Total	6452.88	271.13	25.26	6749.27

Environmental Impact Potential

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	208.58	13.99	1.46	224.03
Acidification (Kg SO2 Equivalents)	1.74	0.05	0.01	1.80
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)	0.05	0.00	0.00	0.05

Toxic Emissions

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	336.43	396.22	143.30	875.95
To the Ground	0.12	0.05	0.02	0.19
To the Water	27.70	7.05	2.13	36.88

Recycled Content

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	32.00
Steel	50.00	12.50
Aluminium Extrusion	100.00	8.00
Aluminium Castings	100.00	3.00
Total		55.50

Certificates

Description	Accreditation	First Certified
Quality Assurance	ISO 9001	Certified 1991
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