Adapt Wall - AW7865FD

This constant reaction to the change of an individual's daily working routine was the catalyst for Adapt. Born out of the idea to create mobile partitions — to enable more agile, fluid, and flexible spaces — empowering every user to create spaces that work for them at that moment.

PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Fabric	1.62	2.33		
Nylon (30% glass)	0.94	1.35		
TFL	19.05	27.40		
Plywood	22,28	32.04		
Aluminum Castings	6,58	9.46		
Aluminum Extrusion	16.98	24.42		
Stainless Steel (304)	0.29	0.42		
Steel	0.31	0.45		
Zinc Castings	0.53	0.76		
High Pressure	0.95	1.37		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	98.03
Recycled Content (% By Weight):	46.15
Total Energy Consumption (Mj):	3291.87
Recyclability (% By Weight):	99.00

Date of Production: 4th October 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.)

urm

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

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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.

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.

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.

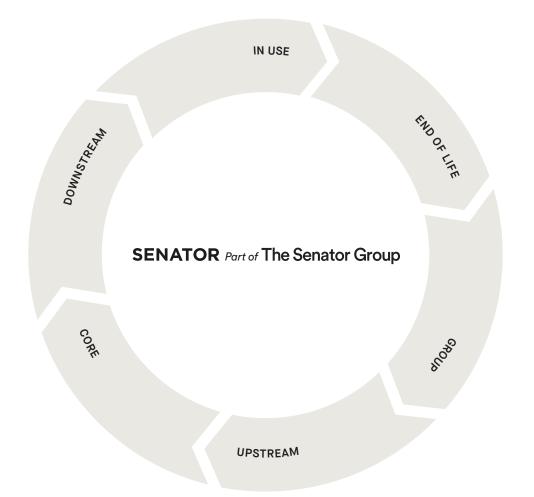
Core:

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

Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	119.01	1.34	0.01	120.36
From the Ground	72.27	23.07	3.25	98.59
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	1310.62	14.77	0.07	1325.46
Hydro	64.80	4.88	0.40	70.08
Solar	0.08	0.00	0.00	0.08
Wind	5.51	1.43	0.02	6.96
Non-Renewable Energy (MJ)	1568.06	283.21	38.02	1889.29
Total	2949.07	304.29	38.51	3291.87

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	79.89	15.91	2.23	98.03
Acidification (Kg SO2 Equivalents)	0.48	0.06	0.01	0.55
Eutrophication (Kg PO43 Equivalents)	0.06	0.00	0.00	0.06
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	118.84	584.22	218.50	921.57
To the Ground	0.09	0.07	0.03	0.18
To the Water	13.16	9.85	3.25	26.25

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Fabric	50.00	1.00
TFL	45.00	12.15
Aluminum Castings	100.00	9.00
Aluminum Extrusion	100.00	24.00
Total		46.15

Description	Certification	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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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 modeled using the IMPACT 2002+ (v2.06) method.

ensure that we have a robust, efficient and auditable system that ensure continuous improvement.

Business Principles:

Environmental Management:

-Reduce

-Recycle

-Reuse

The business works to the principles and through

collaboration with our internal and external experts, we

Adapt Wall - AW7865FF

This constant reaction to the change of an individual's daily working routine was the catalyst for Adapt. Born out of the idea to create mobile partitions — to enable more agile, fluid, and flexible spaces — empowering every user to create spaces that work for them at that moment.

PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates					
Material:	Amount (kg)	Total (%)			
Fabric	13.50	17.38			
Nylon (30% glass)	0.34	0.44			
Plywood	39.44	50.77			
Aluminum Castings	6.58	8.47			
Aluminum Extrusion	16.70	21.50			
Stainless Steel (304)	0.29	0.37			
Steel	0.31	0.40			
Zinc Castings	0.53	0.68			

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	162.51
Recycled Content (% By Weight):	37.50
Total Energy Consumption (Mj):	5548.12
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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In Use:

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Upstream:

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End of Life:

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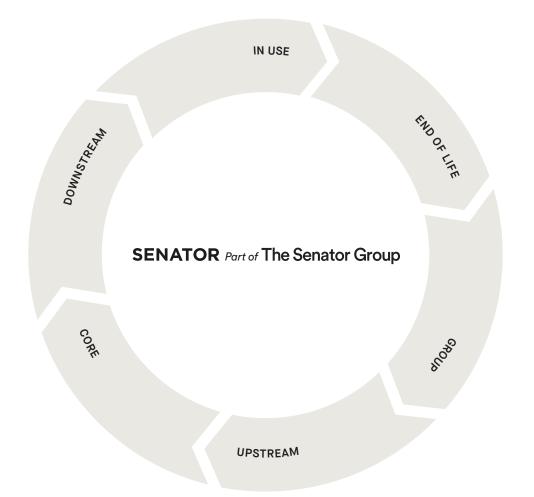
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	214.61	1.34	0.01	215.96
From the Ground	156.28	24.02	3.63	193.93
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	2357.31	14.79	0.08	2372.18
Hydro	104.86	4.99	0.45	110.30
Solar	0.15	0.00	0.00	0.15
Wind	10.76	1.43	0.02	12.21
Non-Renewable Energy (MJ)	2716.44	294.36	42.48	3053.28
Total	5189.52	315.57	43.03	5548.12

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	143.45	16.56	2.50	162.51
Acidification (Kg SO2 Equivalents)	1.12	0.07	0.01	1.20
Eutrophication (Kg PO43 Equivalents)	0.09	0.00	0.00	0.09
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.06	0.00	0.00	0.06

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	247.56	648.29	244.13	1139.99
To the Ground	0.16	0.07	0.03	0.27
To the Water	22.18	10.80	3.63	36.61

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Fabric	50.00	8.50
Aluminum Castings	100.00	8.00
Aluminum Extrusion	100.00	21.00
Total		37.50

Description	Certification	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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ASSESSMENT CONSIDERATIONS

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Business Principles:

Environmental Management:

-Reduce

-Recycle

-Reuse

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Adapt Wall - AW7865FfD

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PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Fabric	4.50	5.40		
Nylon (30% glass)	0.94	1.13		
TFL	36.20	43.41		
Plywood	14.88	17.84		
Aluminum Castings	6.58	7.89		
Aluminum Extrusion	17.16	20.70		
Stainless Steel (304)	0.29	0.35		
Steel	0.31	0.37		
Zinc Castings	0.53	0.63		
High Pressure	1.91	2.28		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	123.28
Recycled Content (% By Weight):	50.85
Total Energy Consumption (Mj):	4277.21
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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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.

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.

End of Life:

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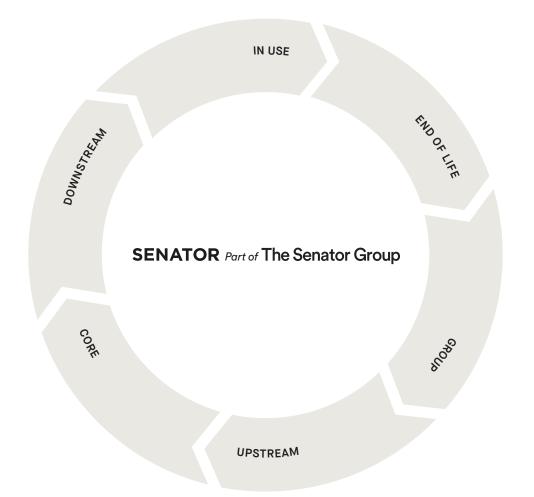
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	161.42	1.34	0.01	162.77
From the Ground	86.99	24.69	3.90	115.58
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	1782.17	14.80	0.09	1797.06
Hydro	78.01	5.08	0.48	83.57
Solar	0.10	0.00	0.00	0.10
Wind	7.32	1.44	0.02	8.78
Non-Renewable Energy (MJ)	2039.95	302.15	45.60	2387.70
Total	3907.55	323.47	46.19	4277.21

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	103.58	17.02	2.68	123.28
Acidification (Kg SO2 Equivalents)	0.65	0.07	0.01	0.73
Eutrophication (Kg PO43 Equivalents)	0.07	0.00	0.00	0.07
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.04	0.00	0.00	0.04

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	152.92	693.09	262.05	1108.06
To the Ground	0.09	0.08	0.03	0.20
To the Water	15.93	11.46	3.89	31.29

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Fabric	50.00	2.50
TFL	45.00	19.35
Aluminum Castings	100.00	8.00
Aluminum Extrusion	100.00	21.00
Total		50.85

Description	Certification	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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Scope of Assessment:

From extraction of raw materials through to production of the final desking unit (cradle to gate).

See page 2 for more details.

Data Used:

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Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Fabric	2.66	3.71		
Nylon (30% glass)	0.94	1.32		
TFL	15.80	22.09		
TFL	19.05	26.62		
Plywood	7.44	10.40		
Aluminum Castings	6,58	9.20		
Aluminum Extrusion	16.98	23.74		
Stainless Steel (304)	0.60	0.84		
Zinc Castings	0.53	0.73		
High Pressure	0.95	1.33		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	101.09
Recycled Content (% By Weight):	57.05
Total Energy Consumption (Mj):	3297.46
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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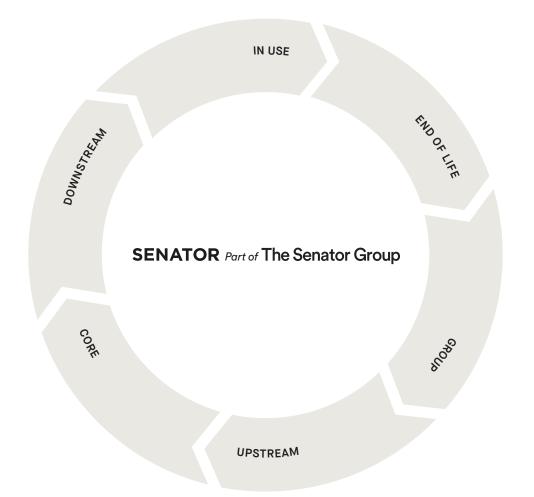
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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	114.61	1.34	0.01	115.96
From the Ground	63.90	23.30	3.35	90.55
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	1126.73	14.77	0.07	1281.57
Hydro	67.83	4.90	0.41	73.14
Solar	0.08	0.00	0.00	0.08
Wind	5.67	1.42	0.02	7.12
Non-Renewable Energy (MJ)	1610.49	285.94	39.12	1935.55
Total	2950.80	307.04	39.62	3297.46

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	82.72	16.07	2.30	101.09
Acidification (Kg SO2 Equivalents)	0.50	0.06	0.01	0.57
Eutrophication (Kg PO43 Equivalents)	0.06	0.00	0.00	0.06
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	111.68	599.94	224.79	936.41
To the Ground	0.06	0.07	0.03	0.15
To the Water	13.74	10.08	3.34	27.16

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Fabric	50.00	2.00
TFL	45.00	9.90
TFL	45.00	12.15
Aluminum Castings	100.00	9.00
Aluminum Extrusion	100.00	24.00
Total		57.05

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



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Furniture Industry Sustainability Program:

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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 modeled using the IMPACT 2002+ (v2.06) method.

ensure that we have a robust, efficient and auditable system that ensure continuous improvement.

Business Principles:

Environmental Management:

-Reduce

-Recycle

-Reuse

The business works to the principles and through

collaboration with our internal and external experts, we

Adapt Wall - AW7865MF

This constant reaction to the change of an individual's daily working routine was the catalyst for Adapt. Born out of the idea to create mobile partitions — to enable more agile, fluid, and flexible spaces — empowering every user to create spaces that work for them at that moment.

PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates			
Material:	Amount (kg)	Total (%)	
Fabric	9.00	12.05	
Nylon (30% glass)	0.94	1.26	
TFL	15.80	21.15	
Plywood	24.56	32.88	
Aluminum Castings	6.58	8.81	
Aluminum Extrusion	16.70	22.35	
Stainless Steel (304)	0.29	0.39	
Zinc Castings	0.53	0.70	
Steel	0.31	0.41	
	1	1	

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	101.09
Recycled Content (% By Weight):	57.05
Total Energy Consumption (Mj):	3297.46
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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lund

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urm

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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.

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.

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.

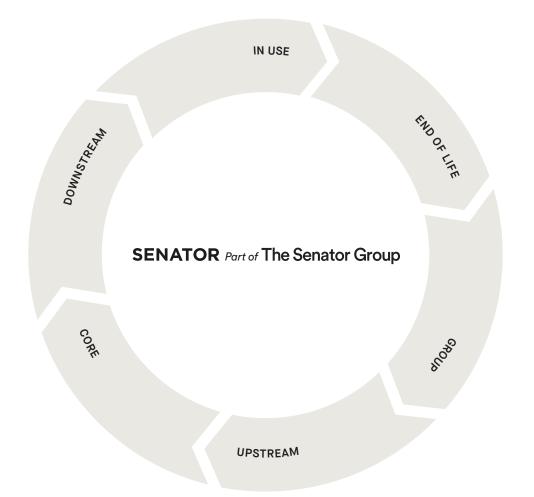
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	166.51	1.34	0.01	167.86
From the Ground	115.38	23.68	3.49	142.55
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	1832.33	14.78	0.08	1847.19
Hydro	86.71	4.95	0.43	92.09
Solar	0.12	0.00	0.00	0.12
Wind	8.40	1.43	0.02	9.85
Non-Renewable Energy (MJ)	2230.39	290.29	40.86	2561.54
Total	4157.95	311.45	41.39	4510.79

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	117.39	16.32	2.40	136.11
Acidification (Kg SO2 Equivalents)	0.86	0.07	0.01	0.94
Eutrophication (Kg PO43 Equivalents)	0.07	0.00	0.00	0.07
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.05	0.00	0.00	0.05

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	186.73	624.90	234.77	1046.40
To the Ground	0.11	0.07	0.03	0.21
To the Water	18.35	10.45	3.49	32.38

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Fabric	50.00	6.00
TFL	45.00	9.45
Aluminum Castings	100.00	9.00
Aluminum Extrusion	100.00	22.00
Total		46.45

Description	Certification	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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ASSESSMENT CONSIDERATIONS

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Business Principles:

Environmental Management:

-Reduce

-Recycle

-Reuse

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Adapt Wall - AW7865MD

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PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.94	1.18		
TFL	15.80	19.80		
TFL	36.20	45.35		
Aluminum Castings	6.58	8.24		
Aluminum Extrusion	17.26	21.63		
Stainless Steel (304)	0.29	0.36		
Steel	0.31	0.39		
Zinc Castings	0.53	0.66		
High Pressure	1.91	2.39		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	92.32
Recycled Content (% By Weight):	59.25
Total Energy Consumption (Mj):	3154.93
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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lund

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In Use:

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Upstream:

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End of Life:

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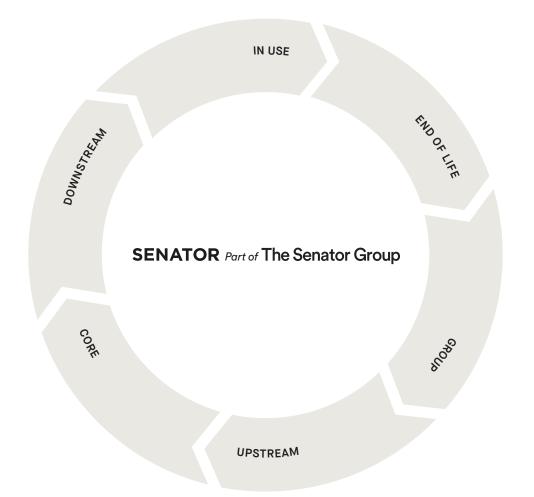
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	113.27	1.34	0.01	114.62
From the Ground	44.47	24.27	3.73	72.47
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	1256.29	14.79	0.08	1271.16
Hydro	59.22	5.02	0.46	64.70
Solar	0.07	0.00	0.00	0.07
Wind	4.89	1.43	0.02	6.34
Non-Renewable Energy (MJ)	1471.76	297.26	43.64	1812.66
Total	2792.23	318.50	44.20	3154.93

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	73.03	16.73	2.56	92.32
Acidification (Kg SO2 Equivalents)	0.37	0.07	0.01	0.45
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)	0.02	0.00	0.00	0.02

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	88.03	664.95	250.79	1003.77
To the Ground	0.03	0.08	0.03	0.14
To the Water	11.95	11.05	3.73	26.72

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
TFL	45.00	9.00
TFL	45.00	20.25
Aluminum Castings	100.00	8.00
Aluminum Extrusion	100.00	22.00
Total		59.25

Description	Certification	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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Business Principles:

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Adapt Wall - AW7865SH5

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PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking unit (cradle to gate).

See page 2 for more details.

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:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.60	1.14		
Aluminum Castings	6.58	12.42		
Aluminum Extrusion	15.67	29.57		
Stainless Steel (304)	0.29	0.55		
Steel	29.33	55.34		
Zinc Castings	0.53	0.99		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	127.75
Recycled Content (% By Weight):	69.50
Total Energy Consumption (Mj):	2353.25
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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Upstream:

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End of Life:

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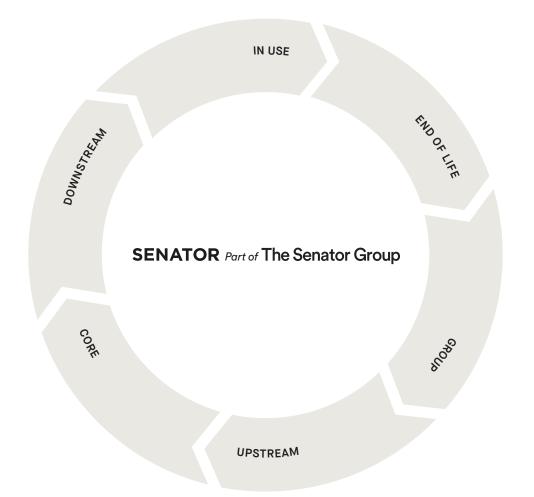
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	3.62	1.33	0.01	4.96
From the Ground	114.43	21.14	2.48	138.05
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	37.63	14.72	0.05	52.40
Hydro	93.50	4.64	0.31	98.45
Solar	0.10	0.00	0.00	0.10
Wind	6.82	1.42	0.01	8.25
Non-Renewable Energy (MJ)	1904.47	260.60	23.98	2194.05
Total	2042.52	281.38	29.35	2353.25

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	111.47	14.58	1.70	127.75
Acidification (Kg SO2 Equivalents)	0.52	0.06	0.01	0.59
Eutrophication (Kg PO43 Equivalents)	0.07	0.00	0.00	0.07
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.03	0.00	0.00	0.03

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	114.51	454.28	166.53	735.31
To the Ground	0.09	0.05	0.02	0.17
To the Water	19.36	7.92	2.47	29.75

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Aluminum Castings	100.00	12.00
Aluminum Extrusion	100.00	30.00
Steel	50.00	27.50
Total		69.50

Description	Certification	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Adapt Wall - AW7865SH3SL

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Scope of Assessment:

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See page 2 for more details.

Data Used:

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Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.60	0.78		
TFL	34.60	44.72		
Aluminum Castings	6.86	8.87		
Aluminum Extrusion	16.80	21.71		
Stainless Steel (304)	0.29	0.37		
Steel	17.70	22.87		
Zinc Castings	0.53	0.68		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	115.55
Recycled Content (% By Weight):	62.75
Total Energy Consumption (Mj):	2881.55
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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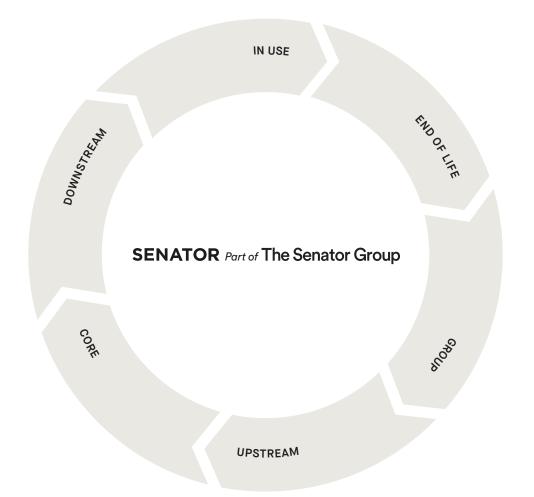
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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	62.91	1.34	0.01	64.26
From the Ground	87.54	23.99	3.62	115.15
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	3696.31	14.79	0.08	711.18
Hydro	80.09	4.99	0.45	85.53
Solar	0.08	0.00	0.00	0.08
Wind	5.97	1.43	0.02	7.42
Non-Renewable Energy (MJ)	1741.10	292.93	42.31	2077.34
Total	2523.55	315.14	42.86	2881.55

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	96.52	16.54	2.49	115.55
Acidification (Kg SO2 Equivalents)	0.47	0.07	0.01	0.55
Eutrophication (Kg PO43 Equivalents)	0.06	0.00	0.00	0.06
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	103.28	645.82	243.14	992.24
To the Ground	0.07	0.07	0.03	0.17
To the Water	16.50	10.76	3.61	30.87

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
TFL	45.00	20.25
Aluminum Castings	100.00	9.00
Aluminum Extrusion	100.00	22.00
Steel	50.00	11.50
Total		62.75

Description	Certification	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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ASSESSMENT CONSIDERATIONS

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ensure that we have a robust, efficient and auditable system that ensure continuous improvement.

Business Principles:

Environmental Management:

-Reduce

-Recycle

-Reuse

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Adapt Wall - AW7865SH3DW4

This constant reaction to the change of an individual's daily working routine was the catalyst for Adapt. Born out of the idea to create mobile partitions — to enable more agile, fluid, and flexible spaces — empowering every user to create spaces that work for them at that moment.

PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.86	0.86		
TFL	35.38	35.11		
Aluminum Castings	6.86	6.81		
Aluminum Extrusion	15.67	15.55		
Stainless Steel (304)	0.29	0.29		
Steel	41.20	40.88		
Zinc Castings	0.53	0.52		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	177.31
Recycled Content (% By Weight):	59.25
Total Energy Consumption (Mj):	3970.70
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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In Use:

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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.

End of Life:

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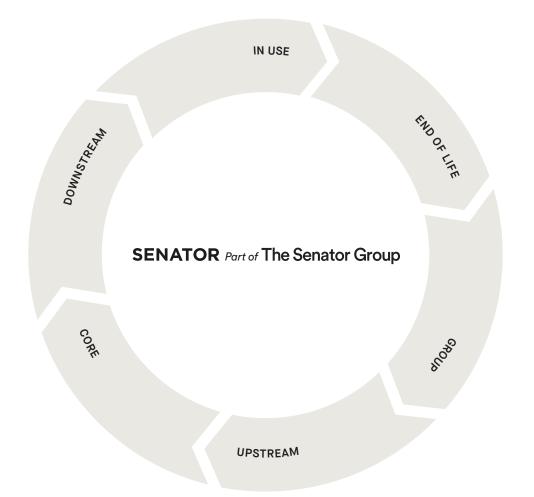
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	65.26	1.35	0.01	66.62
From the Ground	160.66	26.72	4.71	192.09
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	721.17	14.85	0.10	736.12
Hydro	120.03	5.33	0.58	125.94
Solar	0.13	0.00	0.00	0.13
Wind	9.18	1.45	0.02	10.65
Non-Renewable Energy (MJ)	2716.82	325.93	55.11	3097.86
Total	3567.33	347.56	55.81	3970.70

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	155.65	18.42	3.24	177.31
Acidification (Kg SO2 Equivalents)	0.71	0.08	0.02	0.81
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	0.01	0.00	0.06

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	164.77	829.74	316.71	1311.22
To the Ground	0.14	0.10	0.04	0.27
To the Water	24.58	13.49	4.70	42.78

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
TFL	45.00	15.75
Aluminum Castings	100.00	7.00
Aluminum Extrusion	100.00	16.00
Steel	50.00	20.50
Total		59.25

Description	Certification	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Business Principles:

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Adapt Wall - AW7865CHSL

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PRODUCT SUMMARY

Scope of Assessment:

From extraction of raw materials through to production of the final desking 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 Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data only.

Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.60	0.90		
TFL	34.60	51.64		
Aluminum Castings	6.86	10.24		
Aluminum Extrusion	16.80	25.08		
Stainless Steel (304)	0.20	0.30		
Steel	7.41	11.06		
Zinc Castings	0.53	0.78		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	88.03
Recycled Content (% By Weight):	63.90
Total Energy Consumption (Mj):	2407.48
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

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In Use:

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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.

End of Life:

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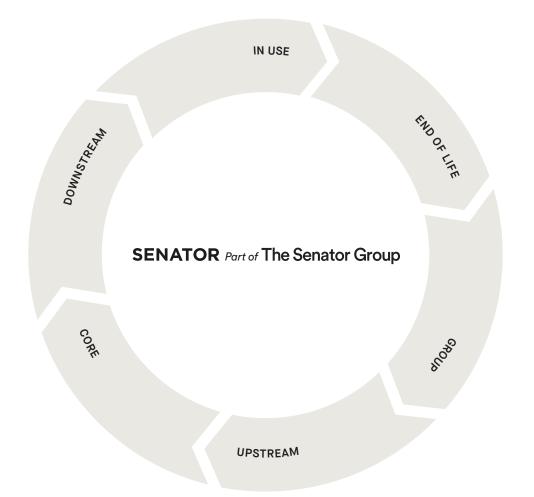
Core:

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Group:

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

Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	62.42	1.34	0.01	63.77
From the Ground	55.00	22.77	3.13	80.90
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	691.56	14.76	0.07	706.39
Hydro	61.06	4.84	0.39	66.29
Solar	0.06	0.00	0.00	0.06
Wind	4.51	1.43	0.02	5.96
Non-Renewable Energy (MJ)	1312.40	279.74	36.63	1628.78
Total	2069.59	300.77	37.12	2407.48

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	70.44	15.71	2.15	88.30
Acidification (Kg SO2 Equivalents)	0.36	0.06	0.01	0.43
Eutrophication (Kg PO43 Equivalents)	0.06	0.00	0.00	0.06
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.03	0.01	0.00	.0.03

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	76.13	564.31	210.54	850.97
To the Ground	0.04	0.06	0.02	0.13
To the Water	12.78	9.55	3.13	25.45

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
TFL	45.00	23.40
Aluminum Castings	100.00	10.00
Aluminum Extrusion	100.00	25.00
Steel	50.00	5.50
Total		63.90

Description	Certification	First Certified
Quality Assurance	ISO 9001	Certified 1991
Environmental Management	ISO 14001	Certified 2001
Chain of Custody	FSC®	Certified 2003
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Adapt Wall - AW7865CHDW4

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PRODUCT SUMMARY

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From extraction of raw materials through to production of the final desking unit (cradle to gate).

See page 2 for more details.

Data Used:

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Functional Unit:

A desking solution designed and manufactured to last for 15 years.

Regional Market:

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

ENVIRONMENTAL

Material Declaration Certificates				
Material:	Amount (kg)	Total (%)		
Nylon (30% glass)	0.86	0.95		
TFL	35.38	39.10		
Aluminum Castings	6.86	7.58		
Aluminum Extrusion	15.67	17.32		
Stainless Steel (304)	0.29	0.32		
Steel	30.91	34.16		
Zinc Castings	0.53	0.58		

Environmental Summary

Global Warming Potential (Kg Co2 Eq):	150.54
Recycled Content (% By Weight):	59.55
Total Energy Consumption (Mj):	3504.84
Recyclability (% By Weight):	99.00

Date of Production: 4th October 2021

ENVIRONMENTAL PRODUCT ANALYSIS

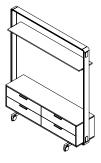
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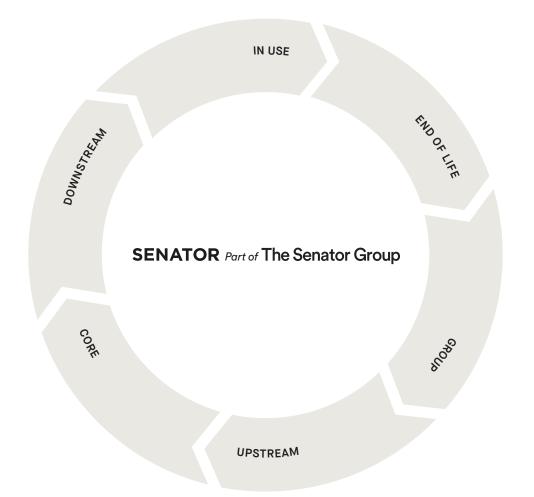
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Group:

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Downstream:



Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	64.79	1.34	0.01	66.14
From the Ground	128.66	25.52	4.23	158.41
From the Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (Kg)	Upstream	Core	Downstream	Total
Biomass	716.49	14.82	0.09	731.40
Hydro	101.93	5.18	0.52	107.63
Solar	0.11	0.00	0.00	0.11
Wind	7.74	1.44	0.02	9.20
Non-Renewable Energy (MJ)	2295.14	311.87	49.49	2656.50
Total	3121.41	333.31	50.12	3504.84

ENVIRONMENTAL IMPACT POTENTIAL

Resource (Kg)	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	130.04	17.59	2.91	150.54
Acidification (Kg SO2 Equivalents)	0.60	0.07	0.01	0.68
Eutrophication (Kg PO43 Equivalents)	0.07	0.00	0.00	0.07
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.04	0.01	0.00	0.05

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
To the Air	138.09	748.93	284.39	1171.41
To the Ground	O.11	0.09	0.03	0.23
To the Water	20.96	12.29	4.22	37.48

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
TFL	45.00	17.55
Aluminum Castings	100.00	8.00
Aluminum Extrusion	100.00	17.00
Steel	50.00	17.00
Total		59.55

Description	Certification	First Certified
Quality Assurance	ISO 9001	Certified 1991
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