

PRODUCT SUMMARY

Scope	of Assessment:	
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From extraction of raw materials through to production of the final Office Furniture unit (cradle to gate).

See page 2 for more details.

All secondary data was obtained from the Regional Market:

Primary data was used wherever possible A Seating solution designed and including for energy use during the core manufactured to last 10 years.

Ecolnvent database. used in conjunction

The primary market for our Office with SimaPro 7.3.2, using European data Furniture products is Europe. The scope

Functional Unit:

of this declaration reflects that.

ENVIRONMENTAL SUMMARY MATERIAL DECLARATION

Material:	Amount (kg):	Total (%):		
MFC	53.47	97.98	Global Warming Potential (Kg Co2 Eq):	37.70
Zinc Castings	0.60	1.10	Recycled Content (% By Weight):	44.60
Steel	0.50	0.92	Total Energy Consumption (Mj):	1821.27
			Recyclability (% By Weight):	99.00

Date of Production: May 2022

ENVIRONMENTAL PRODUCT ANALYSIS

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

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

SPECI#LIST PRODUCTS

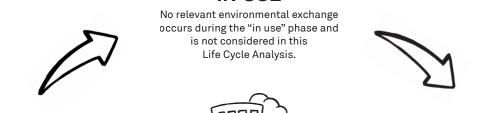
The Senator Group has for many years acknowledged that the We harvest the resources back from the retired products then key word upon which to focus our attention is Sustainability rather than Recyclability in pure isolation.

Our business takes a truly holistic approach to the design, The Senator Group's products and processes.

remanufacture or reintroduce the materials into our component manufacturers supply chain.

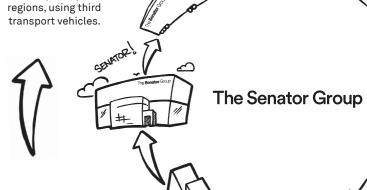
We believe in taking responsibility for our own actions ourmanufacture, supply and reclamation of our products. We see selves, wherever possible, rather than relying on third parties, or this as a cyclical process. From design to manufacture, use and abdicating our responsibilities by offsetting. The process of Susreclamation we aspire to minimise all environmental impacts of tainability is a cyclical one we understand this and we actively pursue this in everything that we do.

IN USE



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

DOWNSTREAM

The Downstream module of

the product's life-cycle includes

transport of the product to The

Senator Group's major market



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.



The Senator Group offers a

full recycle service for all it's

customersand clients, to close

the recycling loop.

SYSTEM BOUNDARIES

SPECI*LIST PRODUCTS

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	92.30	1.33	0.01	93.64
From the Ground	16.97	21.32	2.55	40.84
From The Water	0.00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1024.38	14.73	0.06	1039.17
Hydro	11.54	4.66	0.32	16.52
Solar	0.02	0.00	0.00	0.02
Wind	1.07	1.42	0.01	2.50
Non-Renewable Energy (MJ)	470.46	262.76	29.84	763.06
Total	1507.47	283.57	30.23	1821.27

ENVIRONMENTAL IMPACT POTENTIAL

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	21.24	14.71	1.75	37.70
Acidification (Kg SO2 Equivalents)	0.15	0.06	0.01	0.22
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	
From the Air	28.96	466.96	171.49	667.14	
rom the Ground	0.02	0.05	0.02	0.09	
From The Water	5.31	8.10	2.55	15.96	

RECYCLED CONTENT

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
MFC	45.00	44.10
Steel	50.00	0.50
Zinc Castings		

44.60

Total

CERTIFICATES

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









INDUSTRY SUSTAINABILITY PROGRAMME (FISP)

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

FURNITURE

ENERGY MANAGEMENT:

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

first company in the furniture industry to achieve this standard.

CHAIN OF CUSTODY ENVIRONMENTAL

prove Senator only purchases

We believe Senator was the

Independent certification to

MFC/MDF/Chipboard from manufacturers who can prove they purchase their raw wood from sustainable sources.

MANAGEMENT

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

THE THREE R'S

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

REDUCE, REUSE AND RECYCLE.

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

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



ASSESSMENT CONSIDERATIONS

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

- Manufacture of the furniture components was assumed to take place in the same factory in which the raw materials were processed, due to a lack of case-specific data.
- The transport of all materials, components and finished products was assumed to be via 16-32t Euro 5

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

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