- Stacks 5 high.



PRODUCT SUMMARY

Scope of Assessment:

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

Data Used:

All secondary data was obtained from the See website for warranty information. Ecolnvent database. used in conjunction with SimaPro 7.3.2, using European data

ENVIRONMENTAL SUMMARY

Functional Unit:

Primary data was used wherever possible A Seating solution designed and including for energy use during the core manufactured for a useful life of approx 10

MATERIAL DECLARATION

Amount (kg)To	tal (%)		
0.50	7.58	Global Warming Potential (Kg Co2 Eq):	21.64
0.50	7.58	Recycled Content (% By Weight):	5.00
5.50	83.33	Total Energy Consumption (Mj):	00659.75
0.10	1.52	Recyclability (% By Weight):	99.00
	0.50 0.50 5.50	0.50 7.58 5.50 83.33	O.50 7.58 Global Warming Potential (Kg Co2 Eq): O.50 7.58 Recycled Content (% By Weight): Total Energy Consumption (Mj):

Date of Production: October 2019

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.)



SYSTEM BOUNDARIES

SUSTAIN

The Senator Group has for many years acknowledged that the We harvest the resources back from the retired products then 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 abdicating our responsibilities by offsetting. The process of reclamation we aspire to minimise all environmental impacts of The Senator Group's products and processes.

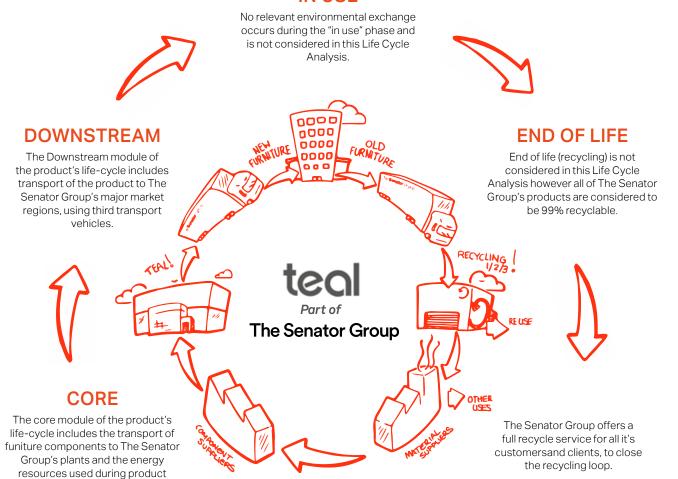
assembly/packing/loading and

transport.

key word upon which to focus our attention is Sustainability rather 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 Sustainability is a cyclical one we understand this and we actively pursue this in everything that we do.

IN USE



UPSTREAM

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



SYSTEM BOUNDARIES

SYSTEM BOUNDARIES

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	18.76	1.49	0.00	20.25
From the Ground	12.18	17.65	0.31	30.14
From The Water	00	0.00	0.00	0.00

ENERGY CONSUMPTION

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	206.64	16.49	0.01	223.14
Hydro	4.70	4.47	0.04	9.21
Solar	0.01	0.00	0.00	0.01
Wind	0.56	1.57	0.00	2.13
Non-Renewable Energy (MJ)	200.10	221.55	3.61	425.26
Total	412.01	244.08	3.66	659.75

ENVIRONMENTAL IMPACT POTENTIAL

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	9.24	12.19	0.21	21.64
Acidification (Kg SO2 Equivalents)	0.06	0.04	0.00	0.10
Eutrophication (Kg PO43 Equivalents)	0.00	0.00	0.00	0.00
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.01	0.00	0.00	0.01

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	17.62	94.74	20.74	133.10
From the Ground	0.02	0.01	0.00	0.03
From The Water	1.32	2.73	0.31	4.36

RECYCLED CONTENT

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	4.00
Aluminium castings	50.00	1.00
Total		F 000
Total		5.000



CERTIFICATES

CERTIFICATES

Description
Quality Assurance
Envronmental Management
Chain of Custody
Sustainability

ISO 9001 ISO 14001 FSC® FISP

Accreditation

Certified 1991

First Certified

Certified 2001 Certified 2003 Certified 2006







FURNITURE INDUSTRY SUSTAINABILITY PROGRAMME (FISF

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 standard. sustainability certifications within the furniture industry - a public declaration of our commitment to improving our performance in every possible

ENERGY MANAGEMENT:

have a process to continually minimise energy usage.

industry to achieve this

CHAIN OF CUSTODY

External proof that Senator has Independent certification to implemented a robust system prove Senator only purchases to monitor all energy usage and Wood/MFC/MDF/Chipboard

We believe Senator was the first company in the furniture

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

ENVIRONMENTAL MANAGEMENT

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

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

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 • The transport of all materials, was assumed to take place in the same components and finished products was factory in which the raw materials were processed, due to a lack of case-specific

assumed to be via 16-32t Euro 6 lorries.

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

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