Frame consists of plywood, solid birch wood and OBS board for the structure. With fabric over foam. Finished with MFC boarded cladding panels over the sides and the roof.



PRODUCT SUMMARY

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

See page 2 for more details.

including for energy use during the core manufactured to last 10 years.

All secondary data was obtained from the Regional Market: Ecolnvent database. used in conjunction

The primary market for our Office

Functional Unit:

Primary data was used wherever possible A Desking solution designed and

with SimaPro 7.3.2, using European data Furniture products is Europe. The scope of this declaration reflects that.

ENVIRONMENTAL SUMMARY MATERIAL DECLARATION

Material:	Amount (kg):	Total (%):		
Plywood	104.00	25.46	Global Warming Potential (Kg Co2 Eq):	675.72
Solid Wood	3.72	0.91	Recycled Content (% By Weight):	10.40
OBS Board	106.00	25.94	Total Energy Consumption (Mj):	22410.72
PU Foam	102.80	25.16	Recyclability (% By Weight):	99.00
Fabric	4.00	0.98		
Steel	0.04	0.01	Date of Production: August 2020	
MFC	88.00	21.54	Date of Froduction. Adjust 2020	

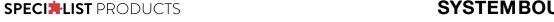
ENVIRONMENTAL PRODUCT ANALYSIS

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

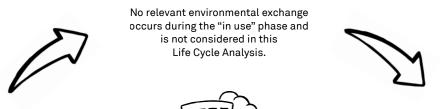
The Senator Group has for many years acknowledged that the We harvest the resources back from the retired products then key word upon which to focus our attention is Sustainability rather than Recyclability in pure isolation.

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



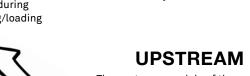
END OF LIFE

The Downstream module of End of life (recycling) is not conthe product's life-cycle includes sidered in this Life Cycle Analysis transport of the product to The however all of The Senator Group's Senator Group's major market 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 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.



The Senator Group offers a

full recycle service for all it's

customersand clients, to close

the recycling loop.

SYSTEMBOUNDARIES SPECI*LIST PRODUCTS

SYSTEM BOUNDARIES

Total
485.46
598.48
0.00

ENERGY CONSUMPTION

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	5497.81	6.00	0.31	5504.12
Hydro	226.62	5.79	1.76	234.17
Solar	0.35	0.01	0.00	0.36
Wind	24.25	0.68	0.07	25.00
Non-Renewable Energy (MJ)	15996.80	483.72	166.55	16647.07
Total	21745.83	496.20	168.69	22410.72

ENVIRONMENTAL IMPACT POTENTIAL

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	637.79	28.15	9.78	675.72
Acidification (Kg SO2 Equivalents)	3.09	0.13	0.05	3.27
Eutrophication (Kg PO43 Equivalents)	0.15	0.00	0.00	0.15
Ozone Depletion (Kg CFC 11 Equivalents)	0.00	0.00	0.00	0.00
Photochemical Smog (Kg C2H4 Equivalents)	0.49	0.02	0.01	0.52

TOXIC EMISSIONS

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	777.97	2406.34	957.10	4141.42
From the Ground	0.40	0.28	0.11	0.79
From The Water	128.36	36.16	14.22	178.73

RECYCLED CONTENT

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Plywood	0.00	0.00
Solid Wood	0.00	0.00
OBS Board	0.00	0.00
PU Foam	0.00	0.00
Fabric	50.00	0.50
Steel	50.00	0.00
MFC	45.00	9.90
Total		10.40

CERTIFICATES

SPECI#LIST PRODUCTS

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

Accreditation

ENERGY

MANAGEMENT:

External proof that Senator

has implemented a robust

system to monitor all energy









CHAIN OF CUSTODY ENVIRONMENTAL

prove Senator only purchases

continually minimise energy

Independent certification to

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

We believe Senator was the first company in the furniture industry to achieve this standard.

usage and have a process to

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

FURNITURE

SUSTAINABILITY

Awarded by FIRA, this

PROGRAMME (FISP)

sustainability certificate

is designed to monitor all

sustainability aspects of

achieved one of the first

sustainability certifications

within the furniture industry

- a public declaration of our

commitment to improving our

performance in every possible

a company's facilities and

operations. The Senator Group

INDUSTRY

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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