DCZI01

Zinnia adds modern elegance to any dining space and is available with or without sacral gap, as a side chair, armchair or high stool.



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:

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 teal solution designed and manufactured to last for 15 years.

MATERIAL DECLARATION

Material:	Amount	Total (%):
Fabric	0.82	8.67
Virgin foam	0.79	8.35
Solid Wood	2.85	30.13
Plywood	4.22	44.61
Steel	0.78	8.25

ENVIRONMENTAL SUMMARY

Global Warming Potential (Kg Co2 Eq):	26.59
Recycled Content (% By Weight):	8.50
Total Energy Consumption (Mj):	806.00
Recyclability (% By Weight):	99.00

Date of Production: 26 September 2024

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.

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

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

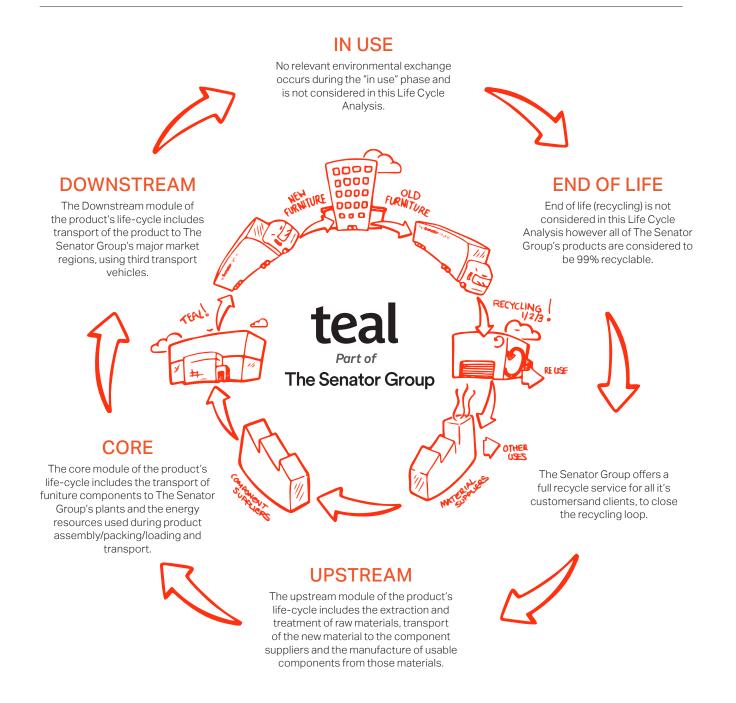
SYSTEM BOUNDARIES

SUSTAIN

The Senator Group has for many years acknowledged that the 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 23.00 1.49 0.00 24.49	
From the Ground 17.67 17.98 0.44 36.09	
From The Water 0.00 0.00 0.00 0.00	

ENERGY CONSUMPTION

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	253.70	16.50	0.01	270.21
Hydro	7.32	4.51	0.05	11.88
Solar	0.01	0.00	0.00	0.01
Wind	0.83	1.57	0.00	2.40
Non-Renewable Energy (MJ)	290.87	225.46	5.17	521.50
Total	552.73	248.04	5.23	806.00

ENVIRONMENTAL IMPACT POTENTIAL

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	13.87	12.42	0.30	26.59
Acidification (Kg SO2 Equivalents)	0.09	0.04	0.00	0.13
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	22.83	117.21	29.73	169.77
From the Ground	0.02	0.01	0.00	0.03
From The Water	2.11	3.06	0.44	5.61

RECYCLED CONTENT

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
Fabric	50.00	4.50
Virgin foam	0.00	0.00
Solid wood	0.00	0.00
Plywood	0.00	0.00
Steel	50.00	4.00

Total	
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8.50

CERTIFICATES

CERTIFICATES

Description

Quality Assurance Envronmental Management Chain of Custody Sustainability

Accreditation

ISO 9001 ISO 14001 FSC® FISP

First Certified

Certified 1991 Certified 2001 Certified 2003 Certified 2006



FURNITURE 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 way.

ENERGY MANAGEMENT:

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

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

CHAIN OF CUSTODY

Independent certification to prove Senator only purchases Wood/MFC/MDF/Chipboard from manufacturers who can prove they purchase their raw 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 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. –Reduce–Reuse–Recycle

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.