

## Open - OPN158

Open is an elegant and relatively compact, contemporary range of soft seating, comprising a lounge chair with and without a headrest, footstool and a large two seat sofa.

All versions share a polished chrome wire base, whilst the lounge chair versions are also available on a striking polished aluminium base. The moulded seat shells and cushions with 'bull nosed' edge profile, economic detailing and tailored

### Design by Pearson Lloyd

upholstery, provide great comfort, precise shape, a simple pleasing form and visual slenderness. A range of complementary occasional tables complete the range utilising the polished aluminium base.

## **Product Summary**

#### Scope of Assessment:

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

#### **Functional Unit:**

 $\ensuremath{\mathsf{A}}$  Seating solution designed and manufactured to last 15 years.

#### **Regional Market:**

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

### **Material Declaration**

Material	Amount (kg)	Total (%)
Fabric	1.35	8.37
LDPE	0.09	0.56
PU Foam	7.23	44.67
Steel	7.51	46.40

## **Environmental Summary**

Global Warming Potential (Kg Co2 Eq):	103.36
Recycled Content (% By Weight):	27.00
Total Energy Consumption (Mj):	2508.32
Recyclability (% By Weight):	99.00

Date of Production: April 2016

### **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.

D. Stunes

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

A. Chyrun

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

Allermuir 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.

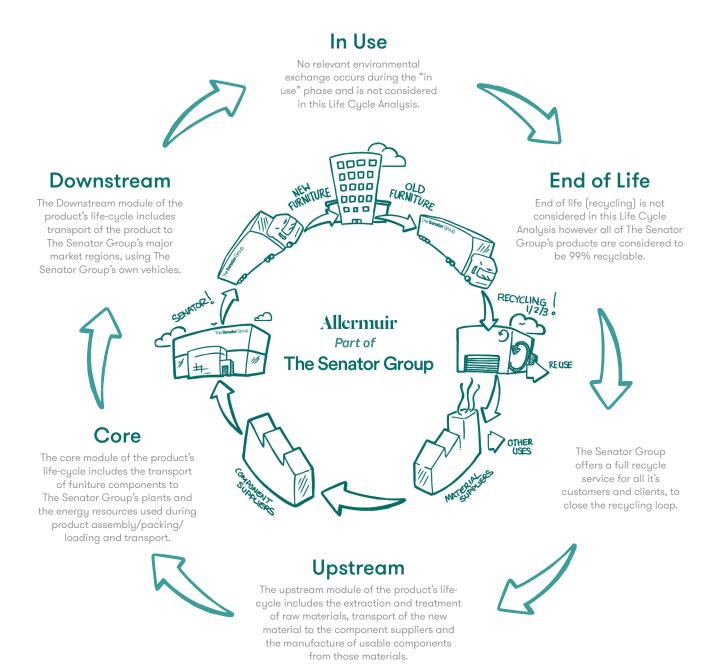
From design to manufacture, use and reclamation we aspire to minimise all environmental impacts of The Senator Group's products and processes.

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.



# Allermuir

System	Bound	aries
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Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	17.56	0.16	0.02	17.74
From the Ground	85.09	3.05	7.04	95.18
From the Water	0.00	0.30	0.00	0.30

# **Energy Consumption**

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	209.70	1.52	0.15	211.37
Hydro	43.95	3.34	0.87	48.16
Solar	0.06	0.01	0.00	0.07
Wind	4.23	0.19	0.04	4.46
Non-Renewable Energy (MJ)	2094.49	67.43	82.34	2244.26
Total	2352.43	72.49	83.40	2508.32

# **Environmental Impact Potential**

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	94.47	4.05	4.84	103.36
Acidification (Kg SO2 Equivalents)	0.47	0.04	0.02	0.53
Eutrophication (Kg PO43 Equivalents)	0.02	0.00	0.00	0.02
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
From the Air	103.39	213.69	473.15	790.23
From the Ground	0.05	0.02	0.05	0.12
From the Water	17.83	3.59	7.03	28.45

# **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	
Steel	50.00	23.00	
Total		27.00	

Allermuir Certificates

### Certificates

## Description

Quality Assurance
Environmental Management
Chain of Custody
Sustainability
Occupational Health &

Safety Management

#### Accreditation

ISO 9001 ISO 14001 FSC® FISP ISO 45001

#### First Certified

Certified 1991
Certified 2001
Certified 2003
Certified 2006
Certified 2021











All UK manufacturing Sites are accredited to ISO standards, 9001, 14001 and 45001. In addition to this the Global Headquarters is also accredited to Chain of Custody. We can provide FSC ® certified products upon request

# FISP (Furniture Industry Sustainability Program)

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.

### Environmental Management

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

# Chain of Custody

Independent certification to prove The Senator Group only purchases TFL/MDF/Chipboard from manufacturers who can prove they purchase their raw wood from sustainable sources.

#### Energy Management:

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

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

## The Three R's

The Senator Group 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 6 Iorries.
- All LCA data was modeled using the IMPACT 2002+ (v2.06) method.