# DINE STEEL

Table top 50mm birch core with laminate faces.

Industrial style welded leg frame powder coated steel. Complete with stainless feet



#### **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 A Desking solution designed and including for energy use during the core manufactured to last 10 years. module

All secondary data was obtained from the **Regional Market:** 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 only.

#### Functional Unit:

of this declaration reflects that.

#### MATERIAL DECLARATION

#### ENVIRONMENTAL SUMMARY

Material:	Amount (kg):	Total (%):		
MDF	51.00	72.34	Global Warming Potential (Kg Co2 Eq):	100.27
Steel	19.40	27.52	Recycled Content (% By Weight):	46.40
Stainless	0.10	0.14	Total Energy Consumption (Mj):	3284.96
Steel (304)			Recyclability (% By Weight):	99.00

Date of Production: August 2020

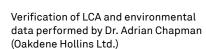
#### **ENVIRONMENTAL PRODUCT ANALYSIS**

This Environmental Product Analysis has been created in accordance with, and following the principles of ISO14025 and 15014044

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.)

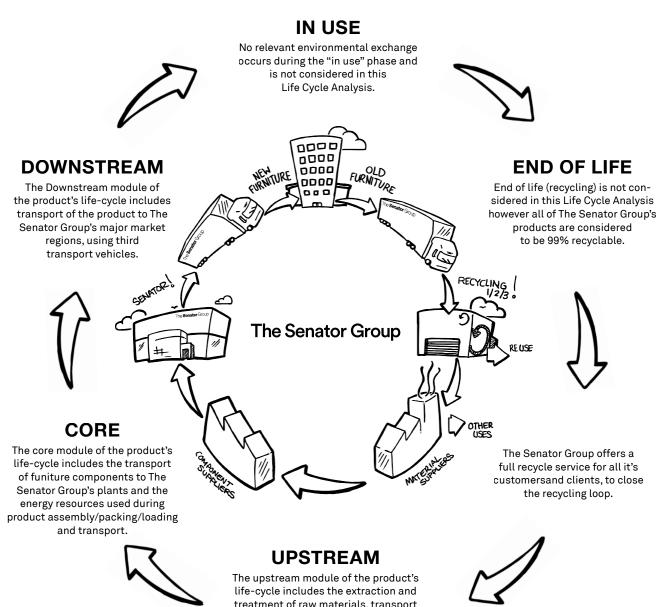


#### SPECI LIST PRODUCTS

# 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, 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 The Senator Group's products and processes. pursue this in everything that we do.





treatment of raw materials, transport of the new material to the component suppliers and the manufacture of usable components from those materials.

# **SYSTEMBOUNDARIES**

SPECI<sup>\*</sup>LIST PRODUCTS

SYSTEM BOUNDARIES

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	118.65	1.34	0.01	120.00
From the Ground	81.30	23.18	3.30	107.78
From The Water	0.00	0.00	0.00	0.00

#### **ENERGY CONSUMPTION**

Resource (MJ)	Upstream	Core	Downstream	Total
Biomass	1315.34	14.77	0.07	1330.18
Hydro	51.64	4.89	0.41	56.94
Solar	0.07	0.00	0.00	0.07
Wind	5.03	1.43	0.02	6.48
Non-Renewable Energy (MJ)	1568.20	284.54	38.55	1891.29
Total	2940.28	305.63	39.05	3284.96

#### **ENVIRONMENTAL IMPACT POTENTIAL**

Resource	Upstream	Core	Downstream	Total
Global Warming (Kg CO2 Equivalents)	82.02	15.99	2.26	100.27
Acidification (Kg SO2 Equivalents)	0.34	0.06	0.01	0.41
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)	0.03	0.00	0.00	0.03

#### **TOXIC EMISSIONS**

Resource (Kg)	Upstream	Core	Downstream	Total
From the Air	102.30	591.84	221.55	915.70
From the Ground	0.08	0.07	0.03	0.18
From The Water	9.67	9.96	3.29	22.92

#### **RECYCLED CONTENT**

Material	Recycled Content of Material (% by weight)	Recycled Content In Product (% by weight)
Material	Amount	Percent of Total
MDF	45.00	32.40
Steel	50.00	14.00
Stainless Steel (304)	0.00	0.00

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

#### SPECI LIST PRODUCTS

# **CERTIFICATES**

#### CERTIFICATES

- Description
- Quality Assurance Envronmental Management Chain of Custody Sustainability Health & Safety Standard

### Accreditation

ISO 9001 ISO 14001 **FSC®** FISP BS 0HSAS 18001

#### **First Certified** Certified 1991 Certified 2001 Certified 2003 Certified 2006 Certified 2015



#### 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

#### 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 ENVIRONMENTAL

Independent certification to prove Senator only purchases 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 lorries.
- All LCA data was modelled using the IMPACT 2002+ (v2.06) method.