



ENVIRONMENTAL PRODUCT INFORMATION (EPI\*) U01468\_UP\_EN - 15.12.2021 - www.vs-moebel.de

## **UnoBean-Step**

#### Product description:

Design consisting of powder-coated tubular steel with central upright on flat-ended skids with plastic kick protection. Table legs made from flat oval steel tubing and cross-strut made from circular steel tubing. Table top made from melamine resincoated chipboard with continuous, moulded (PU) polyurethane safety edge.

#### Human and Ecosystem Health:

The UnoBean-Step has been awarded the following certificates:



#### Lifecycle assessment:

Material composition		Total recycled material content				
Wooden mat.	8,00 kg	54 <mark>,</mark> 90 %	pre consumer	5,60 %		
Steel	6,37 kg	43,80 %	post consumer	40,00 %		
Aluminium	0,00 kg	0,00 %				
Plastic	0,19 kg	1,30 %				
Other	0,00 kg	0,00 %				
Total	14,56 kg	100,00 %	Total	45,60 %		

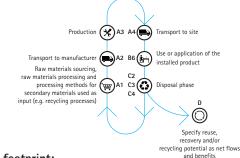
#### **Recycling capability:**

### 100%

Due to the great variation between models we have chosen the representative model 01468, UnoBean-Step 79,7x58,6 cm with chipboard and plastic edge, height 76 cm, for the purposes of analysis. The packaging is not considered here because, as far as possible, we do without this. Reusable packing blankets made from 100% recycled materials are used to provide protection during transport.

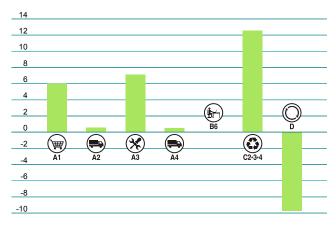
\*The Environmental Product Information (EPI) is a type II environmental label in accordance with the specifications set out in ISO 14021. It is a document which describes the environmentally-relevant impacts of the corresponding item of furniture across the entire product lifecycle.

#### Product lifecycle (material cycle):



#### Carbon footprint:

Global warming potential [kg CO<sub>2</sub>-Eq]



Alongside many other environmental indicators, which are listed in the following table, we shall briefly mention the **"carbon footprint"** here: Summary of the global warming potential (GWP) of fossil and biogenic energy sources/materials and the global warming potential of land use/change of land use. The value is presented in kg CO<sub>2</sub>-equivalent. In the **"Cradle-to-Gate"** assessment, only the global warming potential of phases A1 to A3 (raw material extraction, transport and manufacturing) is considered.





#### Detailed results of the lifecycle assessment:

Climate Change form of lime 2.3.40   [kg CD <sub>2</sub> eq.]   1,37E+01   4,97E-01   0,00E+00   1,25E+01   -9,74E+00     - Climate Change (biogenic)   [kg CD <sub>2</sub> eq.]   2,17E+01   4,95E-01   0,00E+00   1,58E+00   -9,72E+00     - Climate Change (biogenic)   [kg CD <sub>2</sub> eq.]   3,21E-02   2,07E-03   0,00E+00   1,78E-16   -0,00E+00   1,78E-16   -0,00E+00   1,78E-16   -0,00E+00   1,78E-16   -2,61E-03     Ozone depletion   [kg CP <sub>2</sub> eq.]   3,21E-02   2,07E-03   0,00E+00   1,78E-16   -2,61E-03     Dirate Change (biogenic)   [kg CP <sub>2</sub> eq.]   5,06E-10   1,21E-16   0,00E+00   1,32E-01   1,32E-01   1,32E-01   1,32E-02   3,00E-03   -3,66E-02     Eutrophication terrestrial   [Mole of N eq.]   1,22E-01   1,22E-04   0,00E+00   7,62E-03   -3,07E-02     Photochemical ozone formation - human health [kg NWOC eq.]   5,00E-02   3,76E-04   0,00E+00   7,02E-03   -1,12E-05     Resource use, mierral and metals   [kg S b eq.]   2,48E-06   4,11E-08   0,00E+00   1,00E+01	Environmental impacts	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
- Climate Change (biogenic)   [kg CO2 eq.]   -8,05E+00   1,99E-04   0,00E+00   1,09E+01   -1,49E-02     - Climate Change (land use change)   [kg CO2 eq.]   3,21E-02   2,07E-03   0,00E+00   2,21E-03   -2,51E-03     Ozone depletion   [kg CPC-11 eq.]   5,06E-10   1,21E-16   0,00E+00   6,44E-03   -1,56E-02     Eutrophication terrestrial and freshwater   [kg N eq.]   1,14E-04   1,08E-06   0,00E+00   2,95E-03   -3,07E-02     Eutrophication marine   [kg N eq.]   1,22E-01   1,72E-03   0,00E+00   3,43E-02   -3,07E-02     Photochemical ozone formation - human health [kg NMVOC eq.]   5,00E-02   3,75E-04   0,00E+00   7,2EE-03   -1,12E-05     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,00E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   1,58E+02   3,38E-01   0,00E+00   9,02E-01   -1,11E+01	Climate Change (Sum of lines 2, 3, 4)	[kg CO <sub>2</sub> eq.]	1,37E+01	4,97E-01	0,00E+00	1,25E+01	-9,74E+00
- Climate Change (land use change)   [kg CD <sub>2</sub> eq.]   3.21E-02   2.07E-03   0.00E+00   2.21E-03   -2.61E-03     Ozone depletion   [kg CPC-11 eq.]   5.06E-10   1.21E-16   0.00E+00   1.79E-15   -5.72E-14     Acidification terrestrial and reshwater   [kg P eq.]   1.14E-04   1.08E-06   0.00E+00   2.95E-03   -3.00E-06   -7.21E-06     Eutrophication freshwater   [kg P eq.]   1.74E-04   1.08E-06   0.00E+00   2.95E-03   -3.00E-03     Eutrophication terrestrial   [Mole of N eq.]   1.92E-01   1.72E-03   0.00E+00   3.43E-02   -3.07E-02     Photochemical ozone formation - human health [kg NMVOC eq.]   5.00E-02   3.7EE-04   0.00E+00   7.62E-03   -1.19E-02     Resource use, inieral and metals   [kg S b eq.]   2.48E-06   4.11E-08   0.00E+00   1.00E+01   -1.47E+02     Water scarcity   [m³ world equiv.]   1.02E+00   2.13E-03   0.00E+00   1.00E+01   -1.17E+02     Water scarcity   [m³ world equiv.]   1.02E+00   2.13E-03   0.00E+00   0.00E+00   -1.11E+01	- Climate Change (fossil)	[kg CO <sub>2</sub> eq.]	2,17E+01	4,95E-01	0,00E+00	1,58E+00	-9,72E+00
Ozone depletion   [kg CFC-11 eq.]   5,06E-10   1,21E-16   0,00E+00   1,79E-15   -5,72E-14     Acidification terrestrial and freshwater   [Mole of H+ eq.]   6,18E-02   4,57E-04   0,00E+00   6,40E-03   -1,56E-02     Eutrophication freshwater   [kg N eq.]   1,14E-04   1,08E-06   0,00E+00   2,95E-03   -3,00E-03     Eutrophication marine   [kg N eq.]   1,72E-03   0,00E+00   3,43E-02   -3,07E-02     Photochemical ozone formation - human health   [kg Nb eq.]   2,48E-06   4,11E-08   0,00E+00   7,62E-03   -1,28E-02     Resource use, mineral and metals   [kg Sb eq.]   2,48E-06   4,11E-08   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,58E+02   3,83E-01   0,00E+00   1,00E+01   -1,17E+02     Vater scarcity   [m <sup>3</sup> world equiv.]   1,58E+02   3,83E-01   0,00E+00   -1,11E+01     Use of renewable primary energy (PENE)	- Climate Change (biogenic)	[kg CO <sub>2</sub> eq.]	-8,05E+00	1,99E-04	0,00E+00	1,09E+01	-1,49E-02
Acidification terrestrial and freshwater   [Mole of H+ eq.]   6,18E-02   4,57E-04   0,00E+00   6,40E-03   -1,56E-02     Eutrophication freshwater   [kg N eq.]   1,14E-04   1,08E-06   0,00E+00   2,95E-03   -3,00E-03     Eutrophication terrestrial   [Mole of N eq.]   1,92E-01   1,72E-03   0,00E+00   2,95E-03   -3,00E-03     Photochemical ozone formation - human health [kg NMVOC eq.]   5,00E-02   3,76E-04   0,00E+00   6,96E-08   -1,28E-05     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,02E+01   2,13E-03   0,00E+00   8,90E+01   -1,11E+01     Primary energy carriers   [MJ]   2,82E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources   Use of non-renewable primary energy resources (PERT)   MJ   2,42E+02   3,83E-01   0,00E+00   9,12E-01   -1,1	- Climate Change (land use change)	[kg CO <sub>2</sub> eq.]	3,21E-02	2,07E-03	0,00E+00	2,21E-03	-2,61E-03
Eutrophication freshwater   [kg P eq.]   1,14E-04   1,08E-06   0,00E+00   1,36E-06   -7,21E-06     Eutrophication marine   [kg N eq.]   1,79E-02   1,42E-04   0,00E+00   2,95E-03   -3,00E-03     Eutrophication terrestrial   [Mole of N eq.]   1,92E-01   1,72E-03   0,00E+00   7,62E-03   -1,19E-02     Photochemical ozone formation - human health [kg NM/OC eq.]   5,00E-02   3,76E-04   0,00E+00   6,96E-08   -1,28E-05     Resource use, mineral and metals   [kg Sb eq.]   2,48E-06   4,11E-08   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,02E+00   2,13E-03   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   8,80E+01   0,00E+00   9,02E+01   -1,11E+01     Primary energy resources (PERT)   MJ   2,52E+02   6,57E+00   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources (PENR)   MJ   3,14E+01   0,00E+00   0,00E+00   0,0E+00   0,0E	Ozone depletion	[kg CFC-11 eq.]	5,06E-10	1,21E-16	0,00E+00	1,79E-15	-5,72E-14
Eutrophication marine   [kg N eq.]   1,79E-02   1,42E-04   0,00E+00   2,95E-03   -3,00E-03     Eutrophication terrestrial   [Mole of N eq.]   1,92E-01   1,72E-03   0,00E+00   3,43E-02   -3,07E-02     Photochemical ozone formation - human health [kg NMVOC eq.]   5,00E-02   3,76E-04   0,00E+00   7,62E-03   -1,19E-02     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,02E+00   0,00E+00   1,11E+01   1,17E+02   Non-renewable primary energy resources   1,32E+02   3,33E-01   0,00E+00   0,00E+00   0,00E+00   0,00E+00   1,00E	Acidification terrestrial and freshwater	[Mole of H+ eq.]	6,18E-02	4,57E-04	0,00E+00	6,40E-03	-1,56E-02
Eutrophication terrestrial   [Mole of N eq.]   1,92E-01   1,72E-03   0,00E+00   3,43E-02   -3,07E-02     Photochemical ozone formation - human health   [kg Sb eq.]   2,48E-06   4,11E-08   0,00E+00   6,66E-08   -1,19E-02     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m³ world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,18E+00   -1,45E+00     Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources (PERT)   MJ   2,46E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Use of non-renewable primary energy resources   WB   2,42E+02   6,57E+00   0,00E+00   -3,14E+01   -1,07E+02     Non-renewable primary energy resources   Use of non-renewable primary energy resources (PENT)   MJ   2,43E+00   0,00E+00   0,00E+00   0,00E+00   0,00E+00	Eutrophication freshwater	[kg P eq.]	1,14E-04	1,08E-06	0,00E+00	1,36E-06	-7,21E-06
Photochemical ozone formation - human health [kg NMVOC eq.]   5,00E-02   3,76E-04   0,00E+00   7,62E-03   -1,19E-02     Resource use, mineral and metals   [kg Sb eq.]   2,48E-06   4,11E-08   0,00E+00   6,96E-08   -1,28E-05     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m³ world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,18E+00   -1,45E+00     Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources (PERT)   MJ   2,52E+02   6,57E+00   0,00E+00   -3,14E+01   0,00E+00     Total use of non-renewable primary energy resources (PENRT)   MJ   3,68E+00   0,00E+00   -0,0E+00   1,00E+01   -1,17E+02     Non-renewable primary	Eutrophication marine	[kg N eq.]	1,79E-02	1,42E-04	0,00E+00	2,95E-03	-3,00E-03
Resource use, mineral and metals   [kg Sb eq.]   2,48E-06   4,11E-08   0,00E+00   6,96E-08   -1,28E-05     Resource use, energy carriers   [MJ]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m³ world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,18E+00   -1,45E+00     Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   -8,80E+01   0,00E+00     Total use of renewable primary energy resources (PERT)   MJ   2,46E+02   3,83E-01   0,00E+00   -4,86E+01   -1,11E+01     Use of non-renewable primary energy resources   MJ   2,52E+02   6,57E+00   0,00E+00   -3,14E+01   -1,17E+02     Non-renewable primary energy resources (PENRT)   MJ   3,48E+01   0,00E+00   -3,14E+01   0,00E+00   0,00E+00 <t< td=""><td>Eutrophication terrestrial</td><td>[Mole of N eq.]</td><td>1,92E-01</td><td>1,72E-03</td><td>0,00E+00</td><td>3,43E-02</td><td>-3,07E-02</td></t<>	Eutrophication terrestrial	[Mole of N eq.]	1,92E-01	1,72E-03	0,00E+00	3,43E-02	-3,07E-02
Resource use, energy carriers   [M]   2,82E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Water scarcity   [m <sup>3</sup> world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,18E+00   -1,45E+00     Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Drimary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources   MJ   2,52E+02   6,57E+00   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources   Use of non-renewable primary energy resources (PENRT)   MJ   3,14E+01   0,00E+00   0,00E+00   0,00E+00   1,00E+01   -1,17E+02     Input of secondary material (SM)   MJ   3,14E+01   0,00E+00	Photochemical ozone formation - human heal	th [kg NMVOC eq.]	5,00E-02	3,76E-04	0,00E+00	7,62E-03	-1,19E-02
Water scarcity   [m³ world equiv.]   1,02E+00   2,13E-03   0,00E+00   1,18E+00   -1,45E+00     Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   -8,80E+01   0,00E+00     Total use of renewable primary energy resources (PERT)   MJ   2,52E+02   6,57E+00   0,00E+00   -1,17E+02     Non-renewable primary energy resources   used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   -3,14E+01   0,00E+00     Total use of non-renewable primary energy resources (PENRT)   MJ   3,68E+00   0,00E+00   0,00E+00   0,00E+00   -1,17E+02     Input of secondary material (SM)   MJ   3,68E+00   0,00E+00	Resource use, mineral and metals	[kg Sb eq.]	2,48E-06	4,11E-08	0,00E+00	6,96E-08	-1,28E-05
Resource use   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   -8,80E+01   0,00E+00     Total use of renewable primary energy resources (PERT)   MJ   2,46E+02   3,83E-01   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy (PENRE)   MJ   2,52E+02   6,57E+00   0,00E+00   -3,14E+01   -0,17E+02     Non-renewable primary energy resources   used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   0,00E+00   -3,14E+01   0,00E+00     Total use of non-renewable primary energy resources (PENRT)   MJ   3,68E+00   0,00E+00   0,00E+00 </td <td>Resource use, energy carriers</td> <td>[MJ]</td> <td>2,82E+02</td> <td>6,57E+00</td> <td>0,00E+00</td> <td>1,00E+01</td> <td>-1,17E+02</td>	Resource use, energy carriers	[MJ]	2,82E+02	6,57E+00	0,00E+00	1,00E+01	-1,17E+02
Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -1,11E+01     Use of renewable primary energy resources (PERT)   MJ   2,46E+02   3,83E-01   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources   MJ   2,52E+02   6,57E+00   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -1,17E+02     Non-renewable primary energy resources (PENRT)   MJ   3,14E+01   0,00E+00	Water scarcity	[m <sup>3</sup> world equiv.]	1,02E+00	2,13E-03	0,00E+00	1,18E+00	-1,45E+00
Use of renewable primary energy (PERE)   MJ   1,58E+02   3,83E-01   0,00E+00   8,90E+01   -1,11E+01     Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -1,11E+01     Use of renewable primary energy resources (PERT)   MJ   2,46E+02   3,83E-01   0,00E+00   9,12E-01   -1,11E+01     Use of non-renewable primary energy resources   MJ   2,52E+02   6,57E+00   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -1,17E+02     Non-renewable primary energy resources (PENRT)   MJ   3,14E+01   0,00E+00							
Primary energy resources used as raw materials (PERM)   MJ   8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   -8,80E+01   0,00E+00   9,12E-01   -1,11E+01     Use of renewable primary energy resources (PERT)   MJ   2,52E+02   6,57E+00   0,00E+00   4,14E+01   -1,17E+02     Non-renewable primary energy resources   used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -0,00E+00   1,00E+01   -1,17E+02     Input of secondary material (SM)   MJ   3,68E+00   0,00E+00   0,00E+00 <td< td=""><td>Resource use</td><td>Unit</td><td>A1+A2+A3</td><td>A4</td><td>B6</td><td>C2+C3+C4</td><td>D</td></td<>	Resource use	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
Total use of renewable primary energy resources (PERT) MJ 2,46E+02 3,83E-01 0,00E+00 9,12E-01 -1,11E+01   Use of non-renewable primary energy (PENRE) MJ 2,52E+02 6,57E+00 0,00E+00 4,14E+01 -1,17E+02   Non-renewable primary energy resources used as raw materials (PENRM) MJ 3,14E+01 0,00E+00 -3,14E+01 0,00E+00   Total use of non-renewable primary energy resources (PENRT) MJ 2,83E+02 6,57E+00 0,00E+00 1,00E+01 -1,17E+02   Input of secondary material (SM) MJ 3,68E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Use of non renewable secondary fuels (RSF) MJ 0,00E+00 0,00E+0	Use of renewable primary energy (PERE)	MJ	1,58E+02	3,83E-01	0,00E+00	8,90E+01	-1,11E+01
Use of non-renewable primary energy (PENRE)   MJ   2,52E+02   6,57E+00   0,00E+00   4,14E+01   -1,17E+02     Non-renewable primary energy resources   used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   0,00E+00   -3,14E+01   -1,17E+02     Input of secondary material (SM)   MJ   3,68E+00   0,00E+00	Primary energy resources used as raw material	s (PERM) MJ	8,80E+01	0,00E+00	0,00E+00	-8,80E+01	0,00E+00
Non-renewable primary energy resources     used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   -3,14E+01   0,00E+00     Total use of non-renewable primary energy resources (PENRT)   MJ   2,83E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Input of secondary material (SM)   MJ   3,68E+00   0,00E+00   0,00E+00 </td <td>Total use of renewable primary energy resourc</td> <td>es (PERT) MJ</td> <td>2,46E+02</td> <td>3,83E-01</td> <td>0,00E+00</td> <td>9,12E-01</td> <td>-1,11E+01</td>	Total use of renewable primary energy resourc	es (PERT) MJ	2,46E+02	3,83E-01	0,00E+00	9,12E-01	-1,11E+01
used as raw materials (PENRM)   MJ   3,14E+01   0,00E+00   -3,14E+01   0,00E+00     Total use of non-renewable primary energy resources (PENRT) MJ   2,83E+02   6,57E+00   0,00E+00   1,00E+01   -1,17E+02     Input of secondary material (SM)   MJ   3,68E+00   0,00E+00   1,61E-04   -4,07E-02   5,48E-01     Hazardous waste disposed (HWD)   kg   2,91E-01   1,15E-03   0,00E+00   0,00E+00   0,00E+00   0,00E+00	Use of non-renewable primary energy (PENRE)	MJ	2,52E+02	6,57E+00	0,00E+00	4,14E+01	-1,17E+02
Total use of non-renewable primary energy resources (PENRT) MJ 2,83E+02 6,57E+00 0,00E+00 1,00E+01 -1,17E+02   Input of secondary material (SM) MJ 3,68E+00 0,00E+00 0,0	Non-renewable primary energy resources						
Input of secondary material (SM) MJ 3,68E+00 0,00E+00 0,00E	used as raw materials (PENRM)	MJ	3,14E+01	0,00E+00	0,00E+00	-3,14E+01	0,00E+00
Use of renewable secondary fuels (RSF) MJ 0,00E+00 <th< td=""><td>Total use of non-renewable primary energy res</td><td>ources (PENRT) MJ</td><td>2,83E+02</td><td>6,57E+00</td><td>0,00E+00</td><td>1,00E+01</td><td>-1,17E+02</td></th<>	Total use of non-renewable primary energy res	ources (PENRT) MJ	2,83E+02	6,57E+00	0,00E+00	1,00E+01	-1,17E+02
Use of non renewable secondary fuels (NRSF)   MJ   0,00E+00   2,81E-02   -4,07E-02     Output flows and waste categories   Unit   A1+A2+A3   A4   B6   C2+C3+C4   D     Hazardous waste disposed (HWD)   kg   4,68E-06   2,46E-07   0,00E+00   2,48E-07   -1,54E-08     Non-hazardous waste disposed (NHWD)   kg   2,91E-01   1,15E-03   0,00E+00   9,79E-02   5,48E-01     Radioactive waste disposed (RWD)   kg   6,09E-03   6,92E-06   0,00E+00	Input of secondary material (SM)	MJ	3,68E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (FW) MJ 7,67E-02 3,43E-04 0,00E+00 2,81E-02 -4,07E-02   Output flows and waste categories Unit A1+A2+A3 A4 B6 C2+C3+C4 D   Hazardous waste disposed (HWD) kg 4,68E-06 2,46E-07 0,00E+00 2,48E-07 -1,54E-08   Non-hazardous waste disposed (NHWD) kg 2,91E-01 1,15E-03 0,00E+00 9,79E-02 5,48E-01   Radioactive waste disposed (RWD) kg 6,09E-03 6,92E-06 0,00E+00 1,61E-04 -4,75E-03   Components for re-use (CRU) kg 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Materials for Recycling (MFR) kg 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Material for Energy Recovery (MER) kg 2,49E+00 0,00E+00 0,00E+00 1,45E+01 0,00E+00	Use of renewable secondary fuels (RSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Output flows and waste categoriesUnitA1+A2+A3A4B6C2+C3+C4DHazardous waste disposed (HWD)kg4,68E-062,46E-070,00E+002,48E-07-1,54E-08Non-hazardous waste disposed (NHWD)kg2,91E-011,15E-030,00E+009,79E-025,48E-01Radioactive waste disposed (RWD)kg6,09E-036,92E-060,00E+001,61E-04-4,75E-03Components for re-use (CRU)kg0,00E+000,00E+000,00E+000,00E+000,00E+00Materials for Recycling (MFR)kg3,94E-010,00E+000,00E+003,27E+000,00E+00Material for Energy Recovery (MER)kg0,00E+000,00E+000,00E+000,00E+000,00E+00Exported electrical energy (EEE)kg2,49E+000,00E+000,00E+001,45E+010,00E+00	Use of non renewable secondary fuels (NRSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Hazardous waste disposed (HWD)   kg   4,68E-06   2,46E-07   0,00E+00   2,48E-07   -1,54E-08     Non-hazardous waste disposed (NHWD)   kg   2,91E-01   1,15E-03   0,00E+00   9,79E-02   5,48E-01     Radioactive waste disposed (RWD)   kg   6,09E-03   6,92E-06   0,00E+00   1,61E-04   -4,75E-03     Components for re-use (CRU)   kg   0,00E+00   0,00E+00   0,00E+00   0,00E+00   0,00E+00     Materials for Recycling (MFR)   kg   3,94E-01   0,00E+00   0,00E+00   0,00E+00   0,00E+00   0,00E+00     Material for Energy Recovery (MER)   kg   0,00E+00   0,00E+00   0,00E+00   0,00E+00   0,00E+00     Exported electrical energy (EEE)   kg   2,49E+00   0,00E+00   0,00E+00   1,45E+01   0,00E+00	Use of net fresh water (FW)	MJ	7,67E-02	3,43E-04	0,00E+00	2,81E-02	-4,07E-02
Hazardous waste disposed (HWD) kg 4,68E-06 2,46E-07 0,00E+00 2,48E-07 -1,54E-08   Non-hazardous waste disposed (NHWD) kg 2,91E-01 1,15E-03 0,00E+00 9,79E-02 5,48E-01   Radioactive waste disposed (RWD) kg 6,09E-03 6,92E-06 0,00E+00 1,61E-04 -4,75E-03   Components for re-use (CRU) kg 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Materials for Recycling (MFR) kg 3,94E-01 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Material for Energy Recovery (MER) kg 0,00E+00 0,00E+00 0,00E+00 0,00E+00 0,00E+00   Exported electrical energy (EEE) kg 2,49E+00 0,00E+00 0,00E+00 1,45E+01 0,00E+00							
Non-hazardous waste disposed (NHWD)   kg   2,91E-01   1,15E-03   0,00E+00   9,79E-02   5,48E-01     Radioactive waste disposed (RWD)   kg   6,09E-03   6,92E-06   0,00E+00   1,61E-04   -4,75E-03     Components for re-use (CRU)   kg   0,00E+00	Output flows and waste categories	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
Radioactive waste disposed (RWD)   kg   6,09E-03   6,92E-06   0,00E+00   1,61E-04   -4,75E-03     Components for re-use (CRU)   kg   0,00E+00	Hazardous waste disposed (HWD)	kg	4,68E-06	2,46E-07	0,00E+00	2,48E-07	-1,54E-08
Components for re-use (CRU)   kg   0,00E+00	Non-hazardous waste disposed (NHWD)	kg	2,91E-01	1,15E-03	0,00E+00	9,79E-02	5,48E-01
Materials for Recycling (MFR)   kg   3,94E-01   0,00E+00   0,00E+00   3,27E+00   0,00E+00     Material for Energy Recovery (MER)   kg   0,00E+00	Radioactive waste disposed (RWD)	kg	6,09E-03	6,92E-06	0,00E+00	1,61E-04	-4,75E-03
Material for Energy Recovery (MER)   kg   0,00E+00   0	Components for re-use (CRU)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported electrical energy (EEE)   kg   2,49E+00   0,00E+00   1,45E+01   0,00E+00	Materials for Recycling (MFR)	kg	3,94E-01	0,00E+00	0,00E+00	3,27E+00	0,00E+00
	Material for Energy Recovery (MER)	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	Exported electrical energy (EEE)	kg	2,49E+00	0,00E+00	0,00E+00	1,45E+01	0,00E+00
			5,57E+00	0,00E+00	0,00E+00	2,59E+01	0,00E+00

The life cycle assessment was prepared in accordance with DIN EN 15804 + A2.

The data sets on which the preceding calculations are based were taken from the GaBi database (version 2020.2). The LCA model was created by Sphera Solutions GmbH, Hauptstraße 111-113, 70771 Leinfelden-Echterdingen.



# **Sustainability at VS:**

#### Corporate principles:

VS considers the responsible use of the natural resources in the environment to constitute an important corporate principle. One of the main aims of the environmental policy at VS is to minimize environmental impacts at the production site and to be able to offer our customers products that are manufactured in a way that preserves the environment as much as possible. We at VS consider our obligation to the natural environment to include:

- the protection of the environment, our employees and our customers by preventing harmful influences during the manufacture, use and disposal of our products
- preventing or minimising emissions and waste
- minimizing the consumption of the natural resources water, ground and air
- being economical in our consumption of materials in all manufacturing sectors (recirculation)
- environmentally-oriented material selection and the modular design of VS products in order to facilitate recycling
- avoidance of unnecessarily long transport paths by preferring to work with suppliers in Germany and neighbouring countries
- ensuring that VS products are particularly long-lived through wide-ranging wear parts replacement capabilities by the VS Spare Parts Service
- option for a "second life" for furniture that is taken back and reworked and sold in the in-house factory sales area

#### Certification of our management systems:

Certification of our management systems in accordance with the specifications set out in DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001 documents the high performance levels of our quality objectives, environmental protection measures and the measures taken to save energy and reduce  $CO_2$  emissions.







VS has been committed to the principles of the Global Compact since September 2008. The principles of the United Nations regarding human rights, working conditions, the environment and the fight against corruption.



#### Conformity:

VS's products comply with the REACH regulation and are also RoHS-compliant: they do not contain any materials from Annex XIV (1907/2006/EC) or the SVHC candidate list exceeding the limit value of 1000 ppm. Electrical components have been registered by VS under WEEE reg. no. DE 45470288 or by our suppliers in accordance with the German law on electrical and electronic equipment.

#### Contribution to building certifications:

VS products can help achieve desired building certification in accordance with LEED, WELL, etc. Depending on the selected products, points can be acquired relating to criteria in the fields of recycling/waste elimination or non-toxic constituents/low emissions. Evidence of this can be seen in the form of certificates such as GREENGUARD GOLD or BIFMA e3 level.

#### Published by:

VS Vereinigte Spezialmöbelfabriken GmbH & Co.KG Hochhäuser Straße 8 · D-97941 Tauberbischofsheim Tel.: 09341 88-0 · sustainability@vs-moebel.de · www.vs.de

#### Disclaimer:

Because these are manufacturers' specifications, no liability is accepted! The results of the lifecycle assessments have not been verified.