



**PRODUCT INFORMATION** Solo\_TY\_EN - 08.12.2021 - [www.vs-furniture.com](http://www.vs-furniture.com)

## Solo Four-legged stool.


Frame of welded, powder-coated round steel tube.

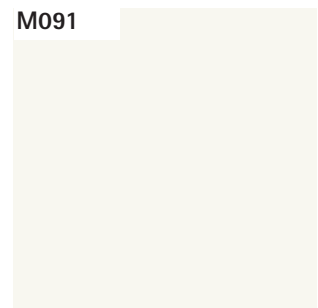
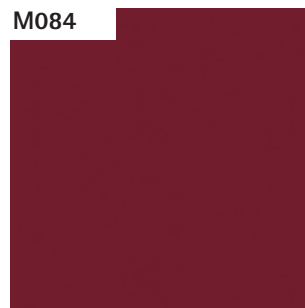
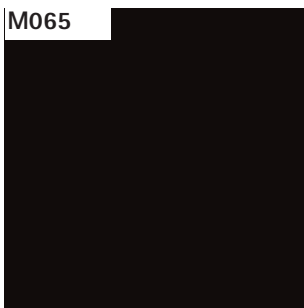
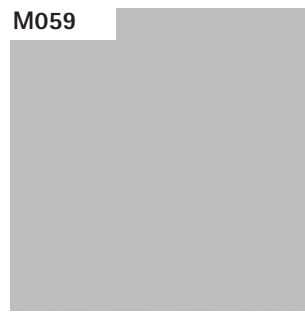
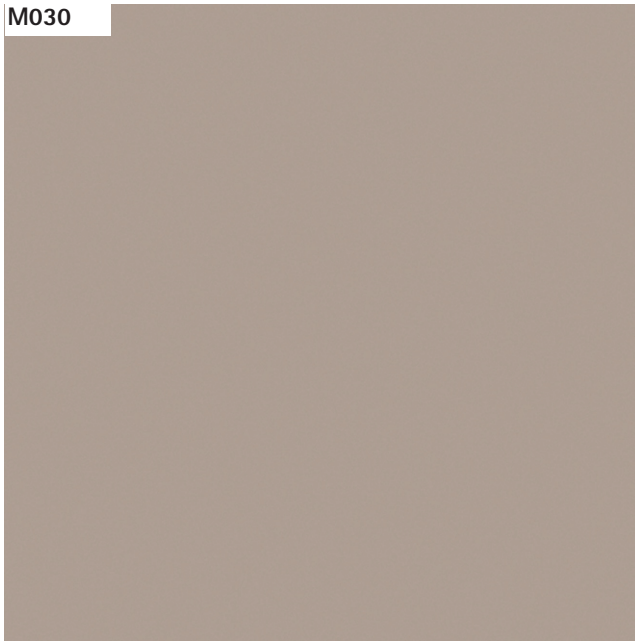
Stool in 5 fixed heights. Each model with 4 seating heights, due to the cross struts positioned at different heights as foot supports.

Seat of beech plywood with concealed seat fixings.

Features and options. Plastic or felt glide elements.

The following material groups are available to choose from: Frame made of steel tube: M1; Seat made of wood: H1.

							
<b>Solo</b>			<b>03826</b>				
	Distance of seat to floor cm		46	52	61	65	83
	Distance of seat to foot support cm		24,8/29,8/34,8/39,8		29,8/34,8/39,8/44,8		
	Stacking height		4				
	Seat w cm		35				



**MATERIAL (COLORS AND DECORS)** Mat-M1\_MG\_EN - 18.11.2019 - [www.vs-furniture.com](http://www.vs-furniture.com)

## Metal - Group: M1.

Metal parts. Steel and aluminium are mainly used in the manufacture of chairs and tables but also for racks. At VS, tubes as well as metal sheets for fronts are generally epoxy-resin powder-coated. In addition to various metal colours, selected products can also be chrome-plated.

M030 terra grey, M031 petrol, M032 light blue, M033 light green, M034 orange, M059 arctic, M063 anthracite, M065 black (RAL 9011), M071 sapphire blue RAL 5003, M084 oxblood, M091 white

**Warning:** Printed and monitor representations of materials and colour samples may differ from the original and are not colour-accurate.

H010



H011



H021



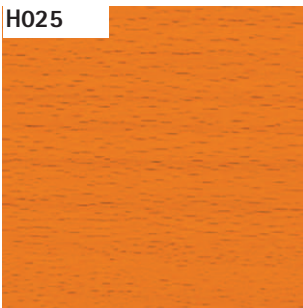
H022



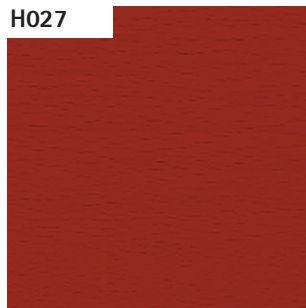
H023



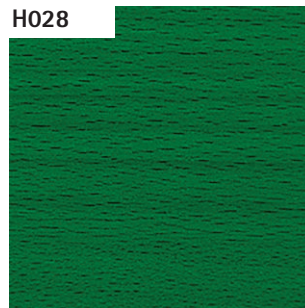
H025



H027



H028



H029



**MATERIAL (COLORS AND DECORS)** Mat-H1\_MG\_EN - 18.11.2019 - [www.vs-furniture.com](http://www.vs-furniture.com)

## Wood - Group: H1.

Solid wood parts. Solid wood parts are mainly used in the production of chairs and tables and at VS usually made from beechwood. After cutting to size and sanding, the beech parts are either given several coats of clear varnish, stained and varnished or painted. Only water-based wood stains and paints are used.

H010 natural, H011 black, H021 light green, H022 light blue, H023 light grey, H025 orange, H027 dark red, H028 dark green, H029 dark blue

**Warning:** Printed and monitor representations of materials and colour samples may differ from the original and are not colour-accurate.



ENVIRONMENTAL PRODUCT INFORMATION (EPI) U03826\_UP\_EN - 15.12.2021 - www.vs-moebel.de

# Solo

## Product description:

Design consisting of welded, powder-coated circular steel.  
 Model with 4 seat heights thanks to cross-struts positioned at different heights as foot supports, and seat made from beech plywood with hidden seat fixing.

## Human and Ecosystem Health:

The Solo has been awarded the following certificates:



## Lifecycle assessment:

Material composition	Total recycled material content		
Wooden mat.	1,18 kg	30,10 %	pre consumer 0,00 %
Steel	2,53 kg	64,60 %	post consumer 24,50 %
Aluminium	0,00 kg	0,00 %	
Plastic	0,21 kg	5,30 %	
Other	0,00 kg	0,00 %	
<b>Total</b>	<b>3,92 kg</b>	<b>100,00 %</b>	<b>Total 24,50 %</b>

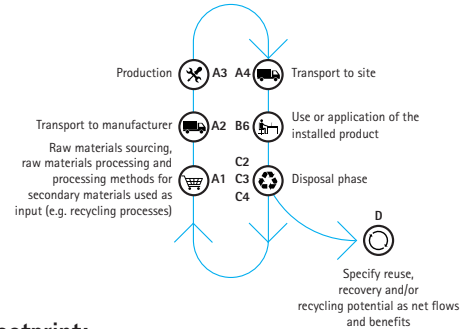
## Recycling capability:

**100%**

Due to the great variation between models we have chosen the representative model 03826, Solo, height 46 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.

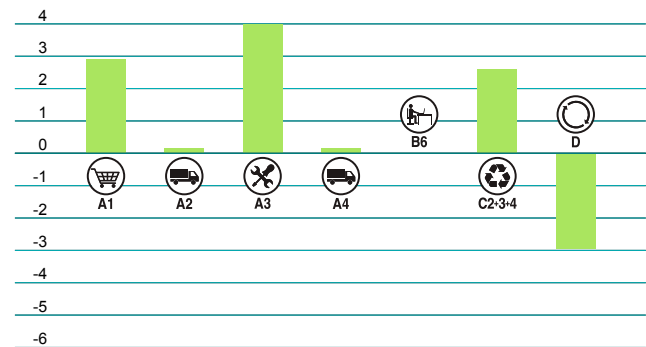
\*The Environmental Product Information (EPI) is a type II environmental label in accordance with the specifications set out in ISO 14021. It is a document which describes the environmentally-relevant impacts of the corresponding item of furniture across the entire product lifecycle.

## 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:

Environmental impacts	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
Climate Change <small>(Sum of lines 2, 3, 4)</small>	[kg CO <sub>2</sub> eq.]	1,94E+01	5,11E-01	0,00E+00	1,22E+01	-1,03E+01
- Climate Change (fossil)	[kg CO <sub>2</sub> eq.]	2,66E+01	5,09E-01	0,00E+00	2,34E+00	-1,03E+01
- Climate Change (biogenic)	[kg CO <sub>2</sub> eq.]	-7,22E+00	2,05E-04	0,00E+00	9,84E+00	-1,50E-02
- Climate Change (land use change)	[kg CO <sub>2</sub> eq.]	3,02E-02	2,13E-03	0,00E+00	2,27E-03	-2,46E-03
Ozone depletion	[kg CFC-11 eq.]	5,77E-11	1,25E-16	0,00E+00	1,78E-15	-5,74E-14
Acidification terrestrial and freshwater	[Mole of H <sup>+</sup> eq.]	6,92E-02	4,70E-04	0,00E+00	8,02E-03	-1,66E-02
Eutrophication freshwater	[kg P eq.]	1,09E-04	1,11E-06	0,00E+00	1,39E-06	-7,22E-06
Eutrophication marine	[kg N eq.]	1,91E-02	1,46E-04	0,00E+00	3,81E-03	-3,14E-03
Eutrophication terrestrial	[Mole of N eq.]	2,01E-01	1,77E-03	0,00E+00	4,35E-02	-3,20E-02
Photochemical ozone formation - human health	[kg NMVOC eq.]	5,50E-02	3,87E-04	0,00E+00	9,80E-03	-1,26E-02
Resource use, mineral and metals	[kg Sb eq.]	2,98E-06	4,23E-08	0,00E+00	7,14E-08	-1,40E-05
Resource use, energy carriers	[MJ]	3,54E+02	6,76E+00	0,00E+00	1,04E+01	-1,22E+02
Water scarcity	[m <sup>3</sup> world equiv.]	1,01E+00	2,19E-03	0,00E+00	1,15E+00	-1,57E+00

Resource use	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
Use of renewable primary energy (PERE)	MJ	1,51E+02	3,94E-01	0,00E+00	8,02E+01	-1,06E+01
Primary energy resources used as raw materials (PERM)	MJ	7,92E+01	0,00E+00	0,00E+00	-7,92E+01	0,00E+00
Total use of renewable primary energy resources (PERT)	MJ	2,30E+02	3,94E-01	0,00E+00	9,14E-01	-1,06E+01
Use of non-renewable primary energy (PENRE)	MJ	3,14E+02	6,76E+00	0,00E+00	5,18E+01	-1,22E+02
Non-renewable primary energy resources used as raw materials (PENRM)	MJ	4,14E+01	0,00E+00	0,00E+00	-4,14E+01	0,00E+00
Total use of non-renewable primary energy resources (PENRT)	MJ	3,55E+02	6,76E+00	0,00E+00	1,04E+01	-1,22E+02
Input of secondary material (SM)	MJ	4,07E+00	0,00E+00	0,00E+00	0,00E+00	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
Use of non renewable secondary fuels (NRSF)	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water (FW)	MJ	8,03E-02	3,53E-04	0,00E+00	2,73E-02	-4,33E-02

Output flows and waste categories	Unit	A1+A2+A3	A4	B6	C2+C3+C4	D
Hazardous waste disposed (HWD)	kg	1,18E-06	2,53E-07	0,00E+00	2,55E-07	-1,38E-08
Non-hazardous waste disposed (NHWD)	kg	3,11E-01	1,19E-03	0,00E+00	9,96E-02	6,08E-01
Radioactive waste disposed (RWD)	kg	7,08E-03	7,12E-06	0,00E+00	1,56E-04	-4,77E-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	4,34E-01	0,00E+00	0,00E+00	3,61E+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	2,24E+00	0,00E+00	0,00E+00	1,47E+01	0,00E+00
Exported thermal energy (EET)	kg	5,01E+00	0,00E+00	0,00E+00	2,62E+01	0,00E+00

# 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<sub>2</sub> 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.

