

SWISSCDF

Compact Density Fibreboard

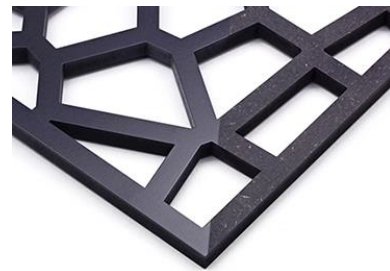
Characteristics	SWISSCDF is an extremely robust high density, black coloured wood fibreboard (>1,000 kg/m ³). Its high strength across the complete board cross section facilitates three-dimensional processing without any risk of fraying. SWISSCDF is a natural material made of Swiss wood which defibres gently and is manufactured according to ecological principles.
Application	SWISSCDF can be used as extremely compact, robust support board. Thanks to its black colouring and the compact product structure, the board can also be used as an attractive surface without additional coating. The excellent machinability into the depth of the panel allow for the creation of various three-dimensional elements for creative furniture and building design. SWISSCDF is ideally suited for applications requiring ecologically sustainable material due to its environmentally compatible manufacturing.
Technical class	High-density wood fibreboard (>1,000 kg/m ³) for non-load-bearing purposes for interior applications in humid conditions, Type MDF.H acc. EN 622-5.

Product structure

SWISSCDF black-coloured; homogenous cross section; extremely compact fibreboard



Fine machining possible (delicate cutting patterns) due to the extreme compactness of the material.



Processing

Working and cutting of the material must be carried out using hard metal tools. For larger batches and when using modern machine tools, we recommend using diamond-tipped tools.

The high density must be taken into consideration regarding the processing parameters. Sharp, hard-cut tools are important in order to achieve optimum edge quality.

Screw connections must always be pre-drilled.

For optimum protection against humidity and to finish, the black panel is treated using varnish, wax, oil or other hydrophobizing media.

For detailed recommendations regarding adhesives, glues and finish please refer to: www.swisscdf.com

Store the fibreboard in a horizontal and fully supported position (optimum storage room conditions: 15-25°C, 45-65% relative humidity).

Technical Data

								Comp. value	Standard
Thickness	6.0	8.0	10.0	12.0	12.4	16.0	19.0 mm	12mm MDF	EN 324-1
Thickness tolerance	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2 mm	±0.2	EN 324-1
Density	1000	1000	1000	1000	1000	1000	1000 kg/m ³	750	EN 323
Flexural strength	55	50	50	50	50	45	45 N/mm ²	22	EN 310
Flexural elasticity module	5000	5000	5000	5000	5000	4500	4500 N/mm ²	2500	EN 310
Internal bond strength	2.0	2.0	2.0	2.0	2.0	1.8	1.6 N/mm ²	0.6	EN 319
Surface soundness	2.3	2.3	2.3	2.3	2.3	2.3	2.3 N/mm ²	1.0	EN 311
Moisture content	≥5	≥5	≥5	≥5	≥5	≥5	≥5 %		EN 322
Thickness swelling	<7	<7	<5	<5	<5	<5	<5 %	15	EN 317
Thermal conductivity	0.18	0.18	0.18	0.18	0.18	0.18	0.18 W/(mK)		EN 13986
Sound insulation	23	25	26	27	27	28	29 dB		EN 13986
Formaldehyde emissions CARB II	≤0.13	≤0.13	≤0.11	≤0.11	≤0.11	≤0.11	≤0.11 ppm		ASTM E 6007
Formaldehyde content	E1: ≤ 8 mg/100 g dry board								EN 120
Formaldehyde emission	E1: ≤ 0.124 mg/m ³								EN 717-1
Lindane Pentachlorophenol PCP	n.d. n.d.	(n.d.=not detected)							CEN/TS14823
Reaction to fire	B-s2,d0	Fire-retardant (low smoke emission, no droplets)						EN 13501-1	
	B1	Tested as: standalone / on metal profiles /						DE 4102	
	RF2 (5.3)	directly on A1 / A2-s1 substrate						VKF (CH)	
Tolerances	Length x Width for 2.80 x 2.07 m and for 5.60 x 2.07 m ±5.0 mm								EN 324-1
	Edge straightness L / B 1.5 mm/m Squareness 2.0 mm/m								EN 324-2
	Density (deviation to average panel thickness) ±7								EN 323
Ecological data	Renewable energy > 90 % wood fibre 65-75 %								SIA 493.05
	MUF-Resin 20-30 % Swiss wood no post-consumer recycled content								
	no chlorides no biocides thermally recyclable								

Safety and general information

Due to the high product weight, please take special care during handling (ensure correct lifting; prevent risks of crushing, etc.).

Saw dust / buffing dust may occur during processing; do not breathe in this fibre dust (wear protective equipment and use air extraction device)! In order to prevent a dust explosion, wood dust must always be pneumatically extracted. Store unprocessed panels by laying them in a flat position in a dry environment!

This product is not classified as a hazardous good and is thus not subject to statutory labelling requirements (hazardous goods ordinance / ordinance on waste management).

The support board is bonded with Melamine-urea-formaldehyde resin (MUF); however, free formaldehyde is hardly present and practically does not escape from correctly processed boards (E1 undercut by factor 9-10). Suitable for indoor application!

The product is chemically stable and is non-toxic, convenient for indoor applications.

SWISSCDF is a product obtained from sustainable forestry. The thinning wood used, helps to preserve Swiss forests.

The product may be recycled after its 1st life cycle or used to generate thermal energy in a suitable plant (CO₂-free energy).



Swiss Made
Swiss Quality



Certified Quality and Environmental Management



Low CO₂-production



Swiss Wood



Sustainable forest management
(certificates can be provided upon request)



The Mark of responsible forestry
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