

# SWISSCDF

## Compact Density Fibreboard

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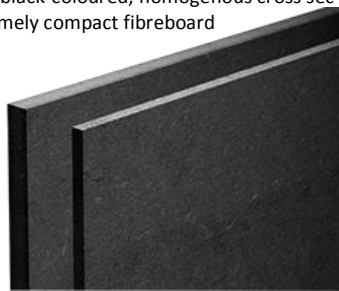
**Characteristics** SWISSCDF is an extremely robust high density, black coloured wood fibreboard (>1,000 kg/m<sup>3</sup>). Its high strength across the complete board cross section facilitates three-dimensional processing without any risk of fraying. SWISSCDF is a natural material made of Swiss wood 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.

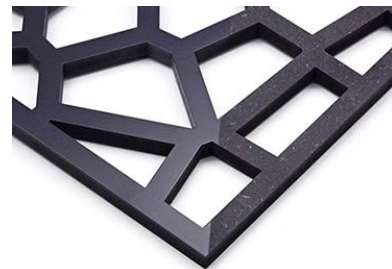
SWISSCDF is ideally suited for applications requiring ecologically sustainable material due to its environmentally compatible manufacturing.

**Technical class** High-density wood fibreboard (>1,000 kg/m<sup>3</sup>) 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](http://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 <sup>3</sup> | 750         | EN 323      |
| Flexural strength               | 55  | 50    | 50   | 50    | 50    | 45    | 45 N/mm <sup>2</sup>   | 22          | EN 310      |
| Flexural elasticity module      | 5000  | 5000  | 5000   | 5000  | 5000  | 4500  | 4500 N/mm <sup>2</sup> | 2500        | EN 310      |
| Internal bond strength          | 2.0   | 2.0   | 2.0  | 2.0   | 2.0   | 1.8   | 1.6 N/mm <sup>2</sup>  | 0.6         | EN 319      |
| Surface soundness               | 2.3   | 2.3   | 2.3  | 2.3   | 2.3   | 2.3   | 2.3 N/mm <sup>2</sup>  | 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 D 6007 |
| Formaldehyde content            |   |       | E1: ≤ 8 mg/100 g dry board                       |       |       |       |                        |             | EN 120      |
| Formaldehyde emission           |   |       | E1: ≤ 0.124 mg/m <sup>3</sup>                    |       |       |       |                        |             | 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 %<br>MUF-Resin 20-30 %   Swiss wood   no post-consumer recycled content<br>no chlorides   no biocides   thermally recyclable |       |  |       |       |       |                        |             | SIA 493.05  |

## 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 (CO<sub>2</sub>-free energy).



Swiss Made  
Swiss Quality



Certified Quality and  
Environmental  
Management



Low CO<sub>2</sub>-  
production



Swiss Wood



Sustainable forest management  
(certificates can be provided upon request)



The Mark of  
responsible forestry  
FSC® C014686  
Ask for FSC®  
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