

**COSMO Sandwichelemente**

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| <b>Product:</b>             | Noble-veneered special plywood, i.e. precious plywood panels for sandwich panels, grooved plywood, design and aluminium plywood.   |
| <b>Type of plywood:</b>     | Okoumé sliced and peeled, sapeli-mahagoni, calabrian pine, carolina pine, spruce, oak, larch, hemlock, oregon and fineline veneers; other types of plywood on request.   |
| <b>Bonding:</b>             | <b>AW</b> according to DIN 68705-2 (1981-07).  |
| <b>Veneer direction:</b>    | Vertical, diagonal left – diagonal right, herringbone or rhomb.  |
| <b>Thickness/layers:</b>    | 4 mm / 3 layers; 9,5 mm / 5 layers; 12 mm / 7 layers; 15 mm / 9 layers<br>other thicknesses on request.  |
| <b>Standard format:</b>     | 2500 x 1700, 2500 x1250, 2200 x 1100 und 2150 x 920 mm<br>other formats on request.  |
| <b>Veneer thickness:</b>    | Peeled veneer face sheets 1,0 mm, sliced face sheets 0,5 to 0,9 mm<br>depending on type of wood before grinding +/- 0,1 mm tolerance.  |
| <b>Grinding:</b>            | Industrial rough grinding with grain <b>100</b> .  |
| <b>Structure:</b>           | Even stripes to slightly speckled.   |
| <b>Veneer width:</b>        | Variable, but should not be less than 70 mm.   |
| <b>Type of veneer:</b>      | Toppled, by request also drawn/shifted.  |
| <b>Veneer gap:</b>          | Juncture glued.  |
| <b>Middle layers:</b>       | Drawn, respectively bonded peel veneers.   |
| <b>Groove base:</b>         | Selected peeled veneers, as close as possible adapted to the colour of the face veneer.  |
| <b>Rear side:</b>           | Mainly peeled veneers in 0,8 mm.   |
| <b>Preface:</b>             | <b>Wood is a natural product!</b><br>Growth-related differences and colour deviations are the best proof of authenticity and therefore no reason for complaints!   |
| <b>Tolerance dimension:</b> | According to DIN 68705 (1981-07)   |
| <b>Tolerance thickness:</b> | +/- 0,3 mm of nominal thickness, for spruce in addition +0,3 mm  |
| <b>Veneer surface:</b>      | The relating cover veneers are closed. Small areas of knots or resins are allowed, if it does not affect the overall picture of the surface.<br>Small, connate but closed knots are allowed for peeled surfaces. |

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- Veneer gaps:** Veneer should be assembled tight so that the gaps between the veneer sheets do not outline in the surface. Loose open gaps are only acceptable in the border and only up to a max. of 50 mm in length.
- Veneer crack:**
- cover veneer**  
Only occasionally appearing veneer cracks up to max. 50 mm are acceptable.
- middle layer**  
In rare cases it is possible that small cracks in middle layers show as tiny little holes in the grooves flank or as small cracks in the groove base. Holes and cracks of up to 2 mm can be repaired (i.e. by special luting of Heinrich König & Co. KG – [www.heinrich-koenig.de](http://www.heinrich-koenig.de)) and are no reason for complaints.
- Surface defect:** Not fully laid middle layers and cover veneers are allowed up to max. 15 mm at the borders.
- Open veneer defects:** Are not allowed.
- Parts of lute:** Are not allowed, only occasionally at peeled veneers.
- Pressure marks:** As the surfaces are rough grinded (100 grain), sporadically appearing pressure marks are allowed as those marks fade after final sanding.
- Scratches:** As the surfaces are rough grinded (100 grain), sporadically appearing scratches are allowed.
- Overlapping veneers:** Are allowed only at the edges up to max. 50 mm.
- Shape distortion:** No guarantee is given in regard of shape distortion. This applies especially for diagonal – herring bone and rhomb optic.
- Wood varnish:** Surfaces can be easily treated with all kinds of common varnish or scumble. Especially for softwoods and fineline veneers a suitable base coat is necessary.
- The final result is not part of and is not covered by our warranty and liability.
- Please note that the wood cover layers are just rough grinded and not finished.**
- In case of doubt the varnish set-up should be discussed with the particular producer of the varnish, i.e. Sikkens or Remmers.

Our application instructions, installation- and processing guidelines as well as the product- and technical specification data are recommendations and can only be considered as nominal values under standard test conditions. They are descriptions of our products and services and do not constitute a legal guarantee. In view of the variety of purposes and circumstances for /in which our products can be utilised it shall be a matter for the user to undertake his own tests in order to ascertain the appropriateness of the products for the specific application. Technical support by us is given without obligation and shall not be subject to warranty. We reserve the right to implement changes to reflect technical progress.