

Conclad® Data Sheet

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Conclad® in brief:

Conclad® is a panel with valuable aesthetic characteristics. It allows the creation of coatings perfectly similar to the cast concrete with the same ease of processing of a normal wooden panel, with the same tools, the same blades, machinery and equipment, screws and hardware as for wood. Depending on the project needs, the complementary use of Gemin products, Concreo® and Conclad®, creates a system revolutionizing the use of cement in Internal Design and high level furniture market.

Composition:

Conclad® is a bio-compatible panel ready to use, with applied a anti-poudre pigmented finishing. It's obtained by a mixture of natural fibers of cellulose and plaster, classified as not hazardous strictly in accordance with the legislation in force.

Depending on the purpose, Conclad® can stand alone or can be coupled to other supporting materials such as wood-based panels, aluminum, metal and any other material. Always clean the back surface before gluing. For the plating, sometimes it may be necessary a counterbalancing with the same techniques used for normal wood panels, considering however the high stability of Conclad® to temperature and humidity variations.

Use:

Conclad® is indicated for non-structural interior design applications: wall cladding, ceilings, scenographic sets, design objects and all the other uses compatible with its technical features.

The excellent quality of the panel can cause the users to decide to use Conclad® other way than what explicitly stated by the manufacturer, taking in this case their personal responsible.

For technical details to support the designers, please refer to the technical data in the table here below. For any additional information and for further technical support please use the contact form available to professionals at the website www.conclad.it.

Features of Conclad®:

- Superior aesthetic quality, with fibers in a natural random composition, unique and never repeated, with a light resistance to stains.
- Easy to work with the same equipment of woodworking: shaping, drilling, milling, pantograph and laser engraving, etc.
- Panels are easy to join, plate, stick and putty, to create perfect surfaces and volumes.
- Wall cladding quickly achievable, either by fixing the panels to a clip support, in metal or wood, either by applying them straight to the pre-existing walls using adeguated adhesive.
- Specific gravity less than half compared to concrete.
- Good grip of pins, screws, dowels and throughout the normal hardware on the market.

- High carrying capacity for suspended loads.
- Excellent acoustic insulation properties for a higher quality of life in very broad or noisy environments.
- High thermal insulation properties.
- Low elasticity but good resistance to mechanical stresses due to the homogeneous structure of the panels all along their thickness.
- Fire resistance with certified European classification.
- Stability of the panels in very humid environments or in the presence of high temperature variations.
- Eco-friendly material that allows it to be disposed as household waste or standard construction residue, always in accordance with the local regulations.

Work finishings:

Conclad® panels are manufactured and commercialized already finished, with natural surface treatments which make them esthetically wonderful.

Regardless of the finish, aesthetics is always subject to natural differences making each board unique, adding value to the product. Differences in color, shades and streaks, cracks, holes, aren't therefore to complain.

In case of contact with staining agents, immediately remove staining substance trying to absorb them with a soft cloth, avoiding to rub the surface, to prevent or limitate the damage of the surface protection attacked by chemical agents.

Depending on the project, it could be necessary to finish the edges resulting from cutting applying a color, a stucco and a anti-dust paint, making sure to remove quickly from surfaces already treated any excess. For the best performance and processing it is recommended to use Concreo® repair and maintenance products, staining, finishing and bonding specifically selected and marked Concreo®. Ask your supplier for more information and availability.

Technical data sheet – Certification for Conclad® Natural Smooth standard finishing.

Caratteristiche <i>Characteristics</i>	Unità di misura <i>Unit</i>	Valore / <i>value</i>
Massa volumica <i>Density</i>	Kg/m ³	1.000 - 1.225
Spessori <i>Thicknesses</i>	mm	9 - 11,5 - 17
Dimensione Standard <i>Standard size</i>	mm	1250 x 2540
Dimensione massima <i>Maximum size</i>	mm	1250 x 3000
Rigonfiamento dopo 24h di immersione in acqua <i>Swelling in thickness after immersion in water</i>	%	0,5 - 1,2
Resistenza a flessione <i>Bending strength</i>	N/mm ²	4
Resistenza a compressione <i>Compression strength</i>	N/mm ²	23
Classe di reazione al fuoco <i>Reaction to Fire</i>	EU Class	B - s1 - d0 A2 s1 d0 *

* certification procedure ongoing

Product Range:

Finishing: Conclad® is available in standard grey finish. On demand are available customized surface colours.

Thickness: 3 available thickness: 9 - 11,5 - 17 mm. Special thickness are available on request.

Sizes: Conclad® panels are marketed in standard sizes 1.250x2.540 mm. It is possible to evaluate special sizes on request, maximum size 1.250x3.000 mm in thickness 11,5 and 17 mm.

Precautions:

To move and handle Conclad[®], please take care of its low elasticity. Always support the slabs in a distributed manner, in order to avoid the fracture.

Protect the edges from shocks to avoid cracks.

The surface protection is not waterproof nor cutproof so, please, always protect surface from contact with staining agents, blades and sharp objects that could damage it.

Store in a dry environment, away from direct light, lying flat on uniform supports to prevent it bows.

The information contained in this sheet are based on our current knowledge of the product. Product features can change with no obligation to inform the holders of this data sheet. The user is obliged to verify the updating of the data sheet at the time of purchase of the product and the suitability of such information in relation to the specific use of the product. For more information, please visit www.conclad.it or please contact by e-mail the Technical Support Department at support@concreo.it.