

Conclad[®] Data Sheet

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Conclad[®] in brief:

Conclad[®] is a panel with valuable functional and aesthetic features. 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 other cemento non cemento products like Conclad[®], Concover[®] and related accessories like pigmented base, filler and glue, 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.

Use:

Conclad[®] is indicated for non-structural interior design applications: wall cladding, ceilings, scenographic sets, design objects, cabinets 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.

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, using standard glues. In the case the glue is applied only in some places of the slab, not in a homogeneous way, use the Concreo Conclad Special Adhesive, distributed by the material manufacturer, to avoid problems of shades on the surface, similarly to what normally happens with some stones or mirrors. Always clean the 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 gives a better stability.

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 <https://www.cementononcemento.com/en/>.

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 adequate 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.
- Fire resistance with certified European classification A2-s1,d0.
- 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.

Features Conclad [®]		Value
Massa volumica	Density	Kg/m ³ 1.000 - 1.225
Spessori	Thicknesses	mm 9 - 11,5 - 17
Dimensione Standard	Standard size	mm 1250 x 2540
Dimensione massima	Maximum size	mm 1250 x 3000
Resistenza a flessione	<i>Bending strength</i>	f m, k = 4.5 N/mm ²
Resistenza a flessione (dopo essiccazione a 40°C)	<i>Bending strength (after drying at temperature 40°C)</i>	f m, test ≥ 5.8 N/mm ²
Resistenza alla diffusione del vapore	<i>Water diffusion resistance coefficient</i>	μ = 21
Conduttività termica	<i>Thermal conductivity</i>	λ ≤ 0.30 W/mK
Durezza del nucleo	<i>Hardness:</i>	approx. 750 N
Modulo di elasticità	<i>Modulus of elasticity</i>	3900 N/mm ²
Classe di Reazione al Fuoco	<i>Reaction to fire</i> R2F	A2-s1,d0 (C.3)

Work finishings:

Conclad[®] panels are manufactured and commercialized already finished, with natural surface treatments which make them esthetically wonderful. It is possible to apply a sealer depending on the project needs.

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 an 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 Conclad[®] repair and maintenance products, staining, finishing and bonding specifically selected and marked Conclad[®]. Ask your supplier for more information and availability.

Maintainance:

Being Conclad[®] a natural material, it is subject to natural aging due to smog, dust and mechanical wear. This aging effects are very similar to concrete's ones, therefore this increases the charm and authenticity of the material over time.

For the normal cleaning of the slabs it is advisable to use a soft cloth soaked in water just to remove the surface dust and if a deeper cleaning is needed, use mild neutral cleaners. Good results are obtained by normal cleaners for glass: apply uniformly without pressure so as not to damage the surface and remove with a soft cloth soaked in water. Dry gently. In case of persistent stains, it is possible to use a product such as Magic Gum or similar, slightly abrasive, always to be used very softly with the care not to damage the surface protection. If the stain has not been removed satisfactorily, it will be necessary to act in a more invasive way, using sand papers to remove all the stained material and, according to the depth of the removal, fix using both Conclad Stucco and/or the Conclad Pigmented base, depending on the preferred final effect. The Conclad Technical Department is available to support the customer in choosing the most suitable solution for their needs.

By applying the manufacturer's instructions, the material will maintain its beauty for very long.

Product Range:

Finishing: Conclad[®] is available in standard Natural Grey, Rude Grey 3 and Rude Grey4.. Cutomized surface colours are possible on demand. Finishings continuously improve, always check for updates at the website <https://www.cementononcimento.com/en/>

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 thikness 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 breakages: never lift the slabs bending them over their entire length as this could easily cause their fracture. Always move the panels in vertical avoiding dangerous flexions.

Protect the edges from shocks to avoid cracks.

Conclad is not waterproof nor scratchproof 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.cementononcimento.com or please contact by e-mail the Technical Support Department at support@conclad.it.