



Insulation panel made from sustainable materials for external insulation.

IS IT:

☒ *Product*

☐ *Technology*

☐ *Equipment*

APPLICABLE FOR:

☒ *Restoration*

☒ *Rehabilitation*

☒ *New Construction*

APPLICABLE ON:

☐ *1. Foundations and underground structures*

☒ *2. Vertical structures*

☒ *3. Horizontal structures and vertical connections*

☒ *4. Roof and terraces*

☒ *5. Façade and building envelope*

☐ *6. Finishes and completion elements*

☐ *7. Integrated services*

☐ *8. General strategies for building recovery*

Related companies: AQUAPANEL®.

DESCRIPTION

AQUAPANEL® Cement Board Outdoor is made entirely from inorganic materials and withstands even extreme weather conditions.

Its flexibility allows the board to be curved, making it a highly versatile building solution. It is one of the leading cement boards, helping change the way people build, and the way buildings look and perform.

Depending on the construction task and location, increasing demands are placed on building technology. It is responsible, for example, for measuring weather related, daily and seasonal conditions on the outside and for harmonizing ventilation, lighting and heating technology in a way that guarantees a comfortable environment on the inside. Such climatic and energy optimization is often accompanied by technical solutions that normally take up space in the interior of the building.

WHY TO USE

With the help of Knauf Exterior Wall, such solutions can be integrated into the building envelope faster, more flexibly and more easily compared to solid construction methods. Wall openings or core hole drillings through the outer wall can be omitted and electrical connections are easy to install even in the event of a retrofitted installation. In this way – for example, due to the installation of decentralized heating and ventilation equipment inside Knauf Exterior Wall – the usable space in the interior is increased and construction costs are saved by reducing the floor heights. This is because suspended ceilings to accommodate an air distribution system are no longer required.

HOW TO USE AND APPLY

This product and Technology is easy to use.

All drywall and facade works – exterior, interior and finishing – can be carried out by a single trade, meaning fewer hands and less risk as well as a streamlined construction process. Only the cabling and pipework inside the interior stud frame as well as window and windowsill installation require the involvement of additional parties.

Knauf AQUAPANEL® Cement Board Outdoor provides a solid dry base that can withstand the extreme weathering effects of wind, rain and snow.

Once taped and jointed, it can be left unfinished for up to 6 months, making use of the smallest windows of opportunity to completely close the external envelope, maximizing the efficiency of the project schedule.

TECHNICAL CHARACTERISTICS

APPEARANCE: Solid in panel. Board can be curved

COLOR: Different color

ODOR: none

SOLUBILITY: None

STORAGE: The panels can be stored individually

RESISTANCE: Strong, robust, and highly impact-resistant, 100% water-resistant. Resistant to moisture, weathering, mold, and mildew, Freeze-thaw cycle proven. Non-combustible.

Slab classification: ETA - 07/0173

Fire reaction class: A1

Available thicknesses: 12.5 mm

Width: 1200 mm

Available lengths: 900, 2000, 2400 mm

Density of the slab: 1150 kg/m³

Thermal conductivity λ : 0.35 W / mK

Vapor resistance factor μ : 66.

RECOMMENDATIONS AND OTHER INFORMATION

Knauf AQUAPANEL GmbH & Co. KG provides technical data sheets for the cement-bound building panels (please download from www.aquapanel.com). The panels can be fastened to racks (aluminum/wood etc.). For cutting to length, smooth cut surfaces can be produced using a circular hand saw with dust extractor or a pendulum action jigsaw. It is recommended to use a carbide or diamond saw blade. It is also possible to score a line along the side of the panel with a knife in order to cut through the fabric.

Break the panel along the cutting edge and cut through the fabric again with the knife. Openings (e.g., for cables or pipes) are to be cut out using a hole saw or jigsaw.

EXAMPLES

Cement-bound, mineral building panel with planar lattice structures of longitudinally and transversely arranged glass fiber mats, for indoor or outdoor use. The composition of the panels differs for their different uses.

“AQUAPANEL® Cement Board Indoor/Outdoor” building panels are used as non-load-bearing wall elements indoors or outdoors.

REFERENCES / SOURCES AND LITERATURE

http://www.knauf.it/prodotti/71010/Aquapanel-Outdoor/Lastre-in-cemento-per-esterni-ed-interni?gclid=EAlaIqobChMlp52Z5ljp8AIV8keRBR28_wccEAAYASAAEglefPD_BwE

WEBSITE OF THE COMPANY

<http://www.knauf.it/cappottoTermicoKnauf.aspx>

IMAGES AND CAPTIONS



Fig.1: Aqua panel outdoor. ©<https://www.commercialeisonzo.it/knauf/aquapanel/>



Fig.2: Sample of the panel. © <https://cubexitalia.it/aquapanel-knauf-un-ottimo-prodotto-per-un-ottimo-lavoro/>