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fermacell Project & Solution

Copernicus Science Centre, Warsaw, Poland

- Poland's most famous scientific and cultural institution
- 30,000 m² **fermacell** Gypsum Fibreboard
- 5,000 m² of **fermacell** Powerpanel H₂O Cement Board
- Project completed in November 2010

Copernicus Science Centre, Warsaw, Poland

The Project

The Copernicus Science Centre stands on the banks of the Vistula river. Its shape is reminiscent of a wave. It combines numerous innovative structural solutions and utilises a range of modern materials, such as **fermacell** Gypsum Fibreboard and **fermacell** Powerpanel H₂O Cement Board, all of which were used for the final completion of the interior. The Copernicus Science Centre includes six themed galleries, a multi-media planetarium, workshops, laboratories, and auditorium, a cafeteria, offices and roof gardens.

Area:

- Site: 40,665 m²
- Developed area: 9,190 m²
- Floor space: 19,150 m²
- Cubature: 123,000 m³

Project Requirement

The mission of Poland's most modern centre for science and culture, an institution located on the banks of the Vistula river, is to arouse curiosity, to promote education, to encourage an understanding of science and to communicate knowledge to the widest possible group. The Copernicus Science Centre realises this aim by combining science with art. It is designed to convey scientific achievements via displays, workshops, laboratory teaching and sessions in the planetarium, as well as through cultural events such as concerts, theatre plays and film shows. The Centre wants to use these methods to present a positive image of education and science, while also pointing out their key significance in our present culture.

Solution

All walls in the complex were built with **fermacell** Gypsum Fibreboard and **fermacell** Powerpanel H₂O Cement Boards, both 12.5 mm thick. The system designs 1 S 21 and 1 S 31 were used for the interior walls and 2 S 11 was used for the suspended ceilings. A total of 30,000 m² of **fermacell** Gypsum Fibreboard and 5,000 m² of **fermacell** Powerpanel H₂O Cement Board was installed. The use of **fermacell** products made it possible to meet the fire protection requirements for internal walls (EI 60 mins.) and ceilings (EI 60 mins.), in conjunction with structural steelwork.



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| Overview | |
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| Developer / Building contractor: | Warbud S.A. |
| Project development: | RAR-2 Laboratorium Architektury (Laboratory for Architecture) |
| Design plan: | Architects Jan Kubec, Magda Łukasik (Gilner), Anna Matek, Michał Tomanek, Zbyszko Bujniewicz |
| Dry lining: | Transstolbud-Piekutowski Sp. z o.o., Kraków |

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