



Case story booklet

Discover ROCKWOOL Group's innovative solutions



Discover ROCKWOOL: Building a sustainable tomorrow.

At ROCKWOOL Group, we deliver innovative insulation solutions that excel in energy efficiency, fire safety and acoustics. Guided by our commitment to sustainability, our products empower architects and builders to create functional, eco-conscious designs.

Our expertise is evident in projects around the globe. From Italy, the CR2 Sinapsi in Cremona showcases modern energy-efficient design; to Norway's ALO Office Building in Trondheim blends functionality with cutting-edge sustainability. Germany's Nursery in Memmelsdorf provides an eco-friendly environment for young minds, while the Gweithdy at the National Museum of History in Wales preserves heritage through sustainable innovation. The Valley School in Stevenage, UK, prioritizes safer, smarter learning spaces; and Paris's Ephemeral Grand Palais demonstrates creative temporary design. In Munich, the Gasteig HP8 Isarphilharmonie pairs sound excellence with thermal efficiency, while Warsaw's Museum of Modern Art stands as a future-forward insulated masterpiece. The following tells a more detailed story of ROCKWOOL's global aspiration to protect and inspire, one iconic building at a time.

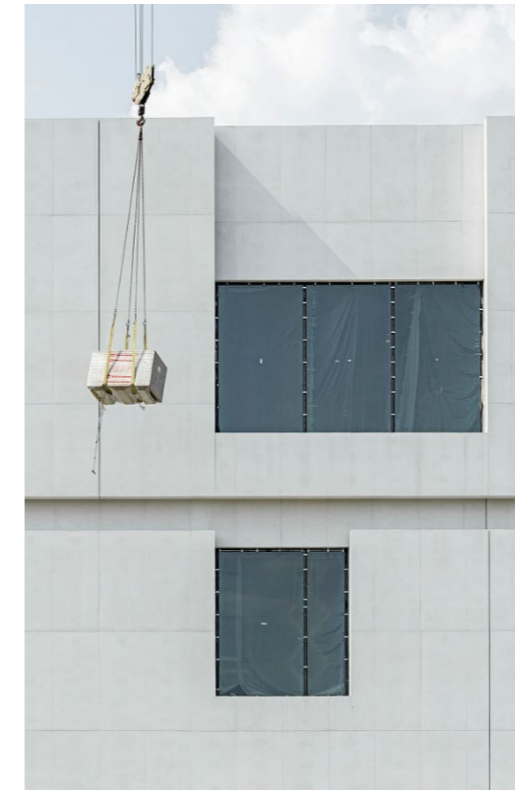


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The following icons show seven defining product capabilities of ROCKWOOL stone wool. These icons appear throughout the brochure as a quick visual reference to each relevant property.



Thermal performance

ROCKWOOL stone wool gets its insulating performance from the tiny pockets of air trapped among the stone wool fibres, which prevent heat transfer, helping buildings stay warm when it's cold outside and cool when it's hot outside.



Acoustics

ROCKWOOL stone wool products improve acoustics inside rooms and help block sound from travelling through walls, contributing to making even the noisiest indoor spaces more comfortable.



Durability

ROCKWOOL stone wool insulation can last for at least 65 years with no need for maintenance, and is unaffected by weather, humidity and temperature changes.



Design flexibility

ROCKWOOL stone wool can be hard like stone or soft as a pillow and is easy to cut and shape, enabling it to be used in a wide range of applications and product types



Fire resilience

ROCKWOOL stone wool insulation is non-combustible and can withstand temperatures above 1000°C, helping stop the spread of a building fire.



Circularity

ROCKWOOL stone wool is endlessly recyclable, meaning it can be recycled again and again without degrading its quality or performance.



Moisture repellence

ROCKWOOL stone wool insulation repels water and resists moisture, helping to protect the long-term health of buildings and the people inside them.

CR² Sinapsi

Cremona, Italy



CR² Sinapsi is a new rehabilitation center for vulnerable children in Parco del Po e del Morbasco, Cremona, supported by Fondazione Occhi Azzurri Impresa Sociale and financed by the Cariplo Foundation. The center provides care for children with neurodevelopmental disorders and rare genetic diseases, alongside offering rehabilitation, recreational activities, and support for caregivers and professionals. The facility, designed with ROCKWOOL's sustainable insulation solutions and Isopan's innovative ADDWind ventilated facade system, ensures safety, comfort, and well-being of its occupants. It features an auditorium, clinic, playroom, various laboratories, a physiotherapy center, and a swimming center, all aimed at integrating therapeutic and social needs. The building also includes a GreenROOF system by Isopan and DAKU Italia, promoting air quality and temperature regulation. The project leaders, Filippo Ruvoli and Prof. Marco Imperadori, highlight the center's positive impact on the community and its commitment to maintaining contact with nature.



Project data

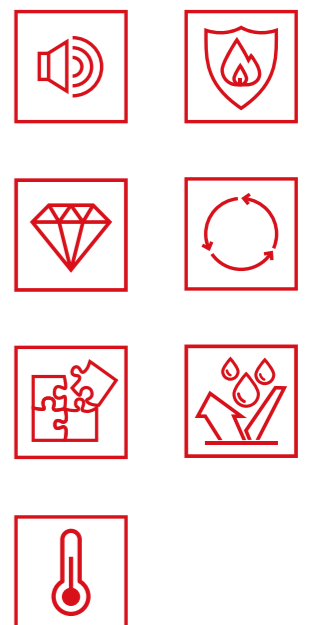
Location: Cremona Area, Italy

Project type: New construction

Promoted by: Occhi Azzurri Foundation and Cariplo Foundation

Architect and Design: Ruvoli, Giorgio Avanzini, STEEL & Co., technical-scientific consultant Prof. Marco Imperadori, Eng. Grazia Marrone and student team of the Politecnico di Milano

Products: 3,500 m² of insulation for partition and interior walls, 1,000 m² of Rockpanel panels, 600 m² of Rockfon sound-absorbing panels, 2,500 m² of stone wool for sandwich panels (ROCKWOOL Core Solutions) ROCKWOOL stone wool sandwich panel system, Spanrock M, Acoustic 225 Plus N, Panel 211 N, Rockfon Color-all and Pacific, ROCKWOOL stone wool sandwich panel system, Spanrock M, and Rockpanel Woods panels.





ALO Office Building

Trondheim, Norway



Project data

Location: Trondheim, Norway

Project type: New construction

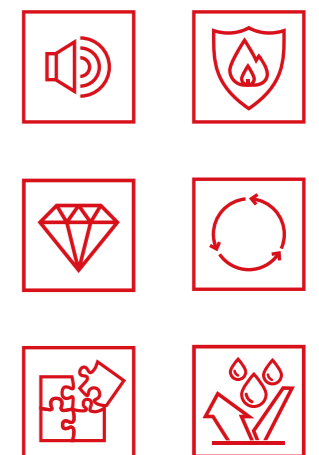
Application: Acoustic ceiling

Architect: HUS Arkitekter AS

Installer: Erik Burås

Product(s):
Rockfon Color-all®, Rockfon®
Contour, Rockfon® Universal Baffle

The Sluppen district in Trondheim, Norway, has transformed from an industrial area into a future-oriented hub, thanks to efforts by real estate developer Kjeldsberg and construction group Veidekke. Key developments include the glass-roofed Lysgården and the 15,000-square-metre ALO office building, designed by HUS Arkitekter and housing tenants like Siemens. ALO, the first office building double-certified with WELL Platinum and BREEAM "Outstanding," features amenities such as restaurants, indoor bicycle parking, and a gym. Rockfon baffles and black ceiling tiles are used throughout the building to optimize acoustics and contribute to its green certifications. The Rockfon Universal Baffle and Rockfon Contour provide noise control and enhance the building's thermal mass, while black ceiling tiles in areas like the canteen and meeting rooms improve speech intelligibility and aesthetic appeal. The design ensures a holistic acoustic strategy, balancing both aesthetics and functionality.





Nursery

Memmelsdorf, Germany



Project data

Location: Memmelsdorf, Germany

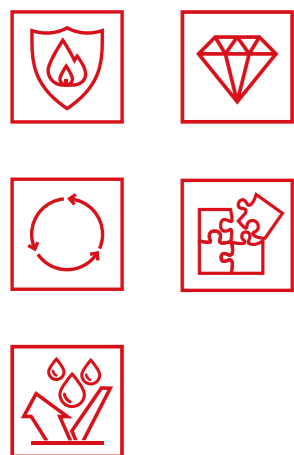
Project type: New construction

Application: Façade cladding
(Fastening method: Rivets and screws; subconstruction: Aluminium and timber)

Architect: Schmitt Vogels Architekten GmbH, Bamberg
Façade fabricator: Leykam Holzbau GmbH, Kasendorf

Product: Rockpanel Colours
RAL 7039 and RAL 095 70 70

“Haus für Kinder St. Christopherus” in Memmelsdorf, Germany, offers views of Seehof Castle and spans 1,700 m², accommodating four kindergarten groups (up to 100 children) and three nursery groups (36 children). Completed in December 2020, the crèche is on the ground floor, increasing regional childcare availability by 40%. Designed by Bamberg-based architect Schmitt Vogels, the building features quartz grey and bronze green Rockpanel façade cladding, which is durable and low-maintenance, used in open-air hallways and escape routes. The foyer, resembling a mezzanine, connects the ground and first floors, while the first-floor rooms offer scenic views. Rockpanel Colours, known for long-lasting multi-coating, were used, providing over 144 color options. The panels, installed on both solid wood and aluminum substructures for enhanced fire safety, require minimal maintenance and are easy to install, similar to timber.



Gweithdy National Museum of History

St Fagans, Cardiff, Wales



Project data

Location: St Fagans, Cardiff, Wales

Project type: New construction

Application: Sandwich panels with ROCKWOOL stone wool

Client: National Museum Wales

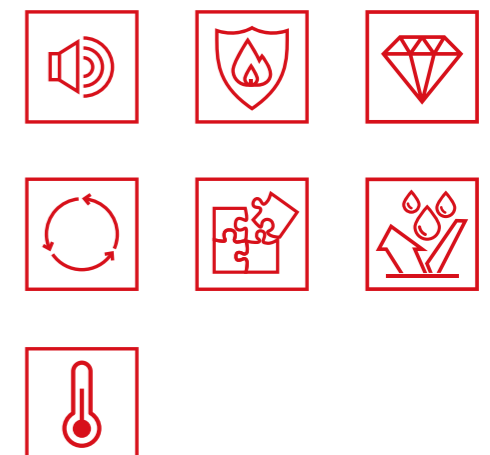
Architect: Feilden Clegg Bradley Studios

Product: Trimo Qbiss One prefabricated wall panel system

Situated in the grounds of St Fagans National Museum of History in Cardiff, Gweithdy is a pavilion that celebrates Welsh craftsmanship and opened in 2018. Designed by Feilden Clegg Bradley Studios, the building hosts hands-on craft demonstrations, displays over 500 artefacts, and includes a coffee shop and amenities. The structure blends into its 19th-century woodland surroundings with a simple triangular plan, natural materials, and a subdued color palette. Its external walls feature stone wool insulated sandwich panels with a matt grey finish, vertical glazing, and timber strips that camouflage the building within the park. Gweithdy aims to inspire visitors by showcasing artefacts and offering opportunities to develop craft skills. Stone wool insulated sandwich panels were used, contributing to sustainability in management, health and wellbeing, safety, energy, materials, and waste.



Photos: Courtesy of Gweithdy National Museum of History





Valley School Stevenage

Bragbury End, United Kingdom



Project data

Location: Stevenage, United Kingdom

Project type: New construction

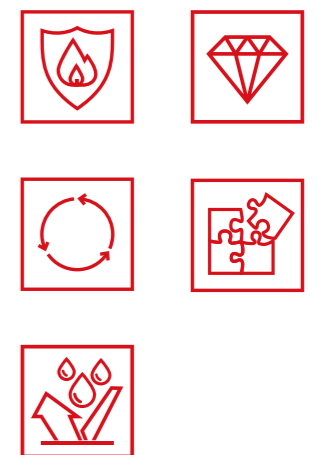
Application: Façade cladding

Architect: Saunders Boston Architects

Installer of external facades: Stoneguard Projects Ltd

Products: Rockpanel Colours (RAL 120 80 20, RAL 6001, NCS 20 70 G30Y)

The Net Carbon Zero Valley SEN School in Stevenage, managed by Hertfordshire County Council, caters to secondary students with autism and learning difficulties. Clad with non-combustible Rockpanel decorative boards, the school creates a serene environment and blends into its green surroundings. Designed by Saunders Boston Architects, the building features sustainable elements like PV panels, sedum roofs, and efficient LED lighting, achieving Net Zero Carbon in Operation (NZCiO). This pioneering project has won several awards, including the Pagabo Award for sustainability and the Eastern Echo Award for Educational Project of the Year. Rockpanel's durable, low-maintenance panels, made from recycled materials, contribute to the school's aesthetic and operational efficiency. Construction was managed by Ashe Construction Ltd., while Stoneguard Projects Ltd. installed the external facades. The design aims to reduce the building's impact and provide a joyful, colorful exterior for the pupils.



Ephemeral Grand Palais

Paris, France



Photos: Courtesy of Ephemeral Grand Palais

Project data

Location: Paris, France

Project type: New construction

Application: Sandwich panels with ROCKWOOL stone wool

Architects: Wilmotte & Associés Architectes

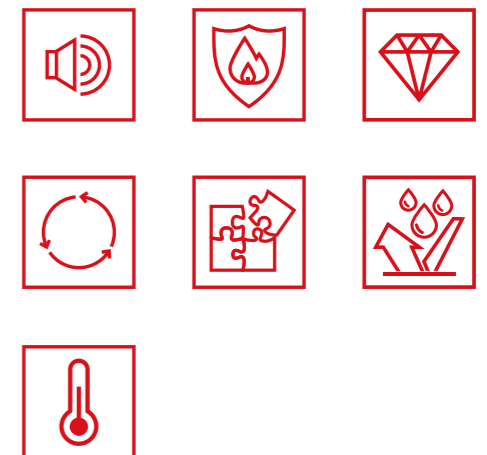
Client: RMN-Grand Palais, Paris 2024 Organising Committee for the Olympic and Paralympic Games

Contractors: Mathis (framing), IASO (roof covering, lining), Laporta (structural work), Sodimav (acoustic panels), Swal (interior fabric), Andreu (HVAC)

Sandwich panel suppliers: Trimo for the roof covering and ArcelorMittal Construction

Products: Vulcastell Wall FC 80 mm, Vulcastell Wall FC 120 mm, EI 60 fire resistance, Vulcastell Wall FC 200 mm, EI 180 fire resistance

The ephemeral Grand Palais, located on the Joffre plateau in Paris's 7th arrondissement, opened in June 2021 and will be in place for four years. Designed by Wilmotte & Associés and managed by GL Events, it serves as a temporary venue for art, fashion, and sporting events, including the 2024 Olympic and Paralympic Games. The structure, made of sustainably sourced timber and modular components, was quick to assemble and is designed for easy disassembly and reuse. In addition to the structural components, the envelope components, in particular the sandwich panels manufactured from steel sheet and stone wool will be able to be reused. After its operational period, the building will be dismantled, and its components, including steel sheet and stone wool panels, reused in new constructions. The project emphasizes eco-construction and minimal construction site disruption.





Gasteig HP8 Isarphilharmonie

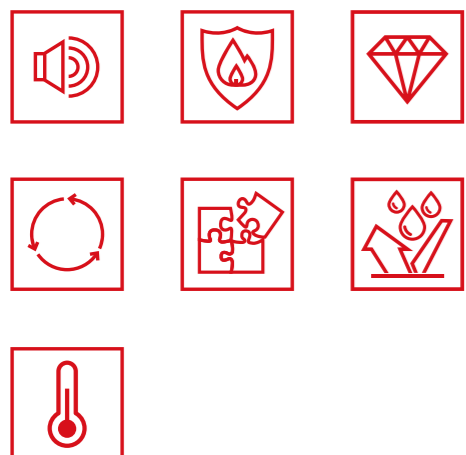
Munich, Germany

As the Gasteig cultural center in Munich undergoes refurbishment, its functions have moved to the temporary Isarphilharmonie concert hall in Sendling, opened in October 2021. Designed by von Gerkan, Marg and Partners, this 1,800-seat modular hall features ROCKWOOL's prefabricated stone wool insulated wall systems, ensuring high-quality acoustics and sustainability. Built in just 18 months for 40 million euros, the hall connects to a historic transformer building and includes additional modular structures for the City Library, adult education center, and University of Music and Performing Arts.

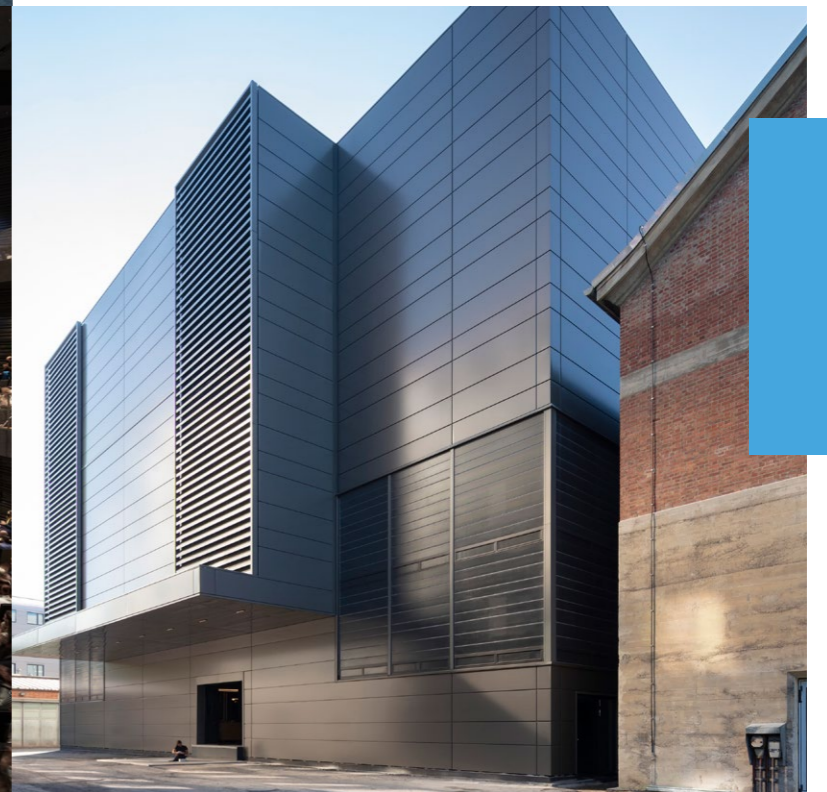
Designed by Nagata Acoustics, the hall's cross-laminated timber elements and recyclable metal wall systems contribute to excellent sound distribution and a sustainable future. ROCKWOOL's stone wool core adds insulation for noise reduction and improves internal sound quality by absorbing echo and reverberation. The project emphasizes quick, efficient installation and long-term sustainability, making it a key venue in the new Gasteig HP8 cultural quarter.

Project data

- Location:** Munich, Germany
- Project type:** New construction
- Application:** Sandwich panels with ROCKWOOL stone wool
- Architects:** gmp Architects (von Gerkan, Marg and Partners)
- Client:** City of Munich
- Products:** TRIMO - Qbiss
One, prefabricated wall system
ROCKWOOL Spanrock

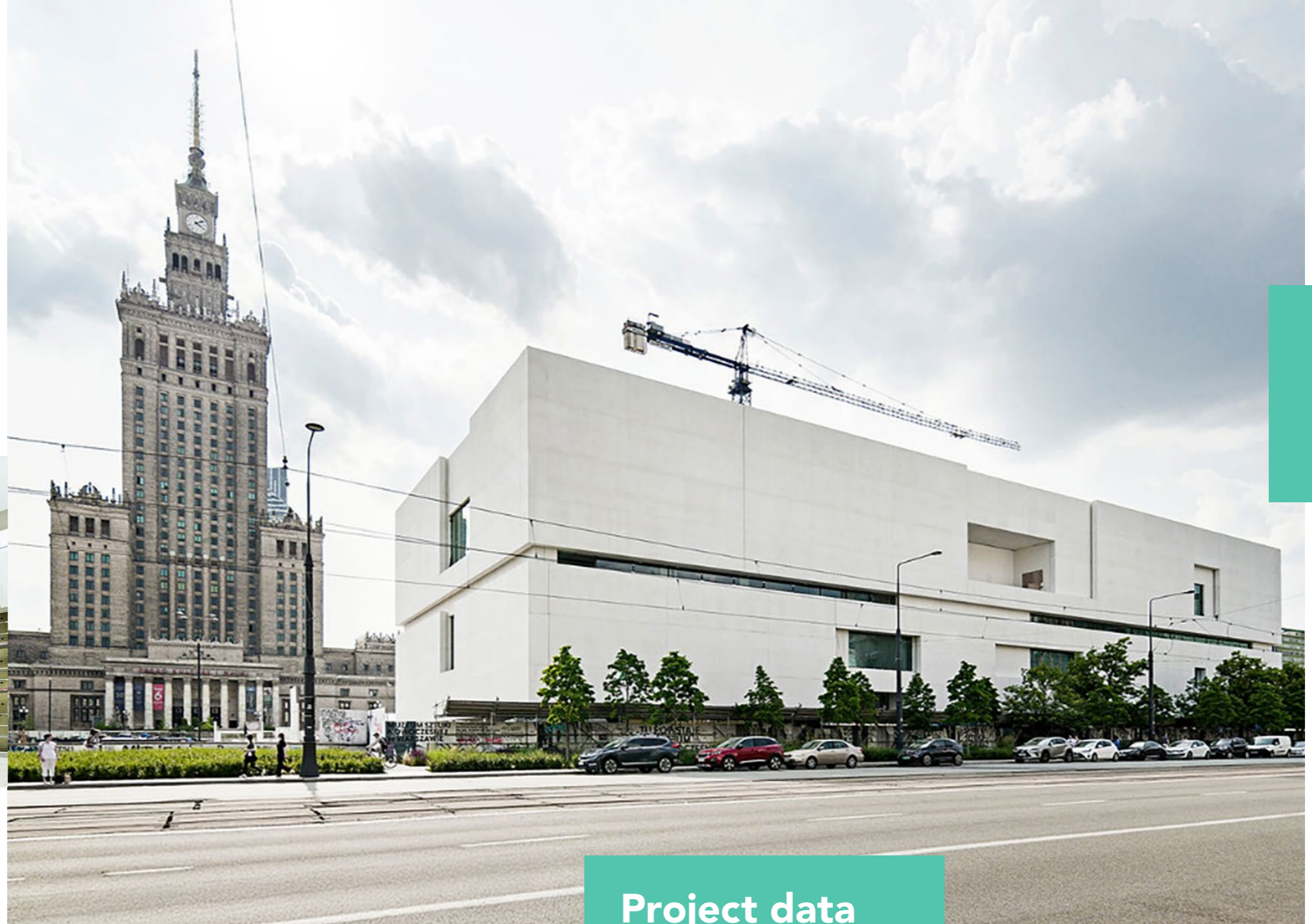


Photos: Courtesy of Gasteig HP8 Isarphilharmonie



Museum of Modern Art

Warsaw, Poland



The Museum of Modern Art in Warsaw (MSN Warsaw) opens October 2024, featuring performances, debates, and other activities. Designed by Thomas Phifer and Partners, the 213,000-square-foot building on Plac Defilad aims to become a landmark for contemporary art in Poland. The project, nearly 20 years in the making, includes a second building for the TR Warszawa Theater, scheduled for completion in 2027. Financed by the City of Warsaw, the museum promotes the exchange of ideas and social interaction, with spaces for galleries, educational activities, and public events. The building's design integrates natural light and sustainable materials, contributing to a vibrant cultural quarter. The TR Warszawa Theater will feature four stages, rehearsal rooms, and public spaces, emphasizing openness and community engagement.

The roof of the Museum of Modern Art posed a significant design and construction challenge, housing all technical installations like ventilation and air conditioning on a steel structure covered by an openwork screen. To ensure robust thermal insulation and proper drainage, MONROCK MAX E and HARDROCK MAX stone wool panels, along with the innovative ROCKFALL slope system, were used. This design allows for maintenance access and effective water drainage while maintaining a sleek, unobtrusive appearance from street level and neighboring windows.

Project data

Location: Warsaw, Poland

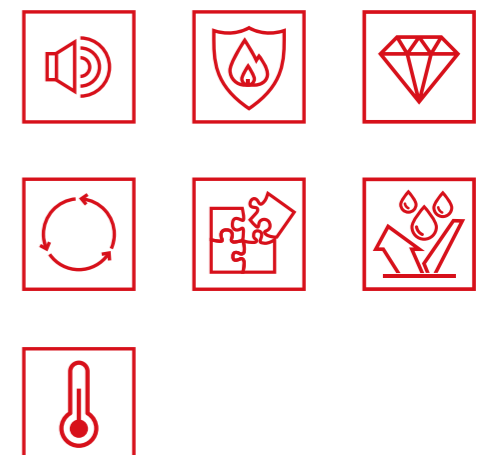
Project type: New construction

Architects: Thomas Phifer and Partners and APA Wojciechowski Application

Client: Capital city of Warsaw

General Contractor: WARBUD

Product: CONLIT PLUS system, KLIMAMAT lamella mats, CONLIT 150 P system, STEPROCK SUPER boards, VENTIROCK double-density stone wool boards, VENTIROCK F PLUS boards with a black glass veil, MONROCK MAX E and HARDROCK MAX boards, ROCKFALL (KSP) slope system





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We're ready to bring your renovation project to the next level!

And you're just one click away from access to experts
who can turn your renovation dream into a reality.



Need support from our experts?



Want more inspiration?



Need further renovation insights?

ROCKWOOL Group is the world leader in stone wool products, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine & offshore. We are committed to enriching the lives of everyone who experiences our products and services, and to helping customers and communities tackle many of today's biggest sustainability and development challenges including energy consumption, noise pollution, fire resilience, water scarcity, urban flooding and more.

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