



WAVE 4 & WAVE 5

Healthcare Architecture for Recovery

The Wave 4 and 5 buildings form part of the ECR medical complex in Sopot, located just 400 meters (a quarter mile) from the Baltic Sea. The campus includes an analytical laboratory (Wave 1), outpatient clinic and day surgery hospital (Wave 2), specialist hospital (Wave 3), and pre/post-procedure care facilities (Waves 4 and 5). Waves 4 and 5 house supervised medical stay rooms, a restaurant, and an extensive rehabilitation center featuring movement therapy and advanced equipment, including laser beam technology, cryotherapy, and high-pressure systems that accelerate post-operative wound healing.

The buildings draw inspiration from Pierre Carreau's AquaViva photograph series, which captures close-up seascapes. Wave geometry is most evident in the upper building volumes and sculptural main entrance canopies. Sunlight gliding across the facade highlights its fine divisions, creating a dynamic three-dimensional presence. Perforated panels incorporate the sacred "Flower of Life" pattern, traditionally attributed with healing properties and found in ancient Egyptian temples, Indian architecture, and Mayan artifacts. This approach references local building traditions of placing ornamental patterns on facades. The designed pattern covers the entire facade of aluminum panels, including flat sections, those with variable geometry, and window shutters. Perforation flows seamlessly from one panel to another, creating visual continuity.

Depending on user needs, the buildings present two distinct faces. A white envelope reflects sunlight, protecting the south, east, and west walls from overheating. Shuttered window panels can create a continuous protective barrier when needed. The proportions between openings and opaque panel sections were refined through work with 1:1 physical models. The final effect allows comfortable use of the building even with all shutters closed, leading to summer energy savings by reducing cooling demands. Prefabricated balconies introduce rhythm and additional light-shadow play to the facade. Balcony railings limit views into private balcony spaces and adjacent rooms.

Interiors foster security and respite before and after procedures. Medical technology, including nurse call systems, blends discreetly into the decor. The Seaside Garden, visible from windows, balconies, and ground level, provides therapeutic impact, even for bedridden patients. Composed of native dune vegetation, it fills the space between buildings.

3D modeling played a crucial role in both design and construction phases. Separate models were created for the building's external skin, steel structure, and concrete structure. The modeling techniques optimised material use and shortened construction time.

Constructed on long-degraded brownfield land, the project transforms 5 hectares into connected green spaces and parks. Both buildings and surrounding grounds feature rainwater harvesting systems that significantly reduce municipal stormwater loads.

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Healthcare Architecture for Recovery

Project Fact Sheet

Name: Wave 4 & WAVE 5 | ECR Health Care Complex

Location: 64 Polna Street, 81-740 Sopot, Poland

Program (Use): Pre- and post-procedure medical care; rehabilitation centre (laser therapy, cryotherapy, hyperbaric chamber, movement therapy); 44 supervised patient rooms; restaurant (ground floor, Wave 4, open to the public)

Site Area: 5 hectares (ECR complex)

Building Area: (WAVE 4) 2.957 m² + (WAVE 5) 1.787 m² = 4.744 m²

Structure: Steel frame with reinforced concrete; 4 above-ground floors per building; Wave 4: 2 basement levels, Wave 5: 1 basement level; above-ground height approx. 20 m; deep foundation works due to high groundwater levels and non-bearing soil conditions

Finishes — Exterior: Laminam Bianco Assoluto sintered ceramic panels (outer facades); perforated aluminium panels with "Flower of Life" pattern (shutter system); Aluprof external profile systems (windows and facades); external timber decking (untreated)

Finishes — Interior: Laminam ceramic wall panels; Italgraniti and Refin Ceramiche wall and floor tiles; Appiani and The Mosaic Factory mosaic finishes (pool and bathrooms); Interface carpeting (corridors); ShowTex stretch ceilings (corridors); Isinac acoustic ceiling panels; bespoke plywood carpentry by FAAB; True Design Italia free-standing furniture

Design Team: FAAB Architektura (architects and interior designers)

Collaborators: Structural engineering: Statikus; Sanitary and electrical engineering: Profen Sp. z o.o.; Landscape architecture: iGreen

Client: Grupa Invicta Sp. z o.o.

Photographer Credits: Jakub Certowicz, Dario Breggiè



FAAB office profile

FAAB is a Warsaw-based architectural practice founded and led by Adam Białobrzęski and Adam Figurski, together with the Creative Director, who jointly steer the studio's development and long-term direction. The studio works across architecture, urban design, and interiors, supported by in-house engineering expertise and a broad network of specialist consultants.

Operating in Poland and internationally, FAAB brings the same rigorous, adaptive approach to every project, regardless of scale, sector, or client. The practice works with equal fluency across public institutions, private investors, and corporate clients.

FAAB's research and meticulous development results in buildings and spaces that are technically innovative and architecturally distinctive. The studio is consistently seeking to unlock the latent potential of each site and deliver lasting value to investors and the wider community, driven by a commitment to design that responds to and anticipates the demands of contemporary life.

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Wave 4 & 5 — ECR Health Care Complex, Sopot

FAAB Architektura — Suppliers, Contractors & Consultants

Suppliers

No.	Supplier / Manufacturer	Website	Material / Scope
1	Laminam	www.laminam.pl	Ceramic panels Bianco Assoluto
2	Aluprof	www.aluprof.com	External profile systems (windows & facades) and internal profile systems
3	Wala	www.wala.pl	Door handles (external doors)
4	Italgraniti	www.italgranitigroup.com	Wall tiles for bathroom finishes in patient rooms
5	Appiani	www.appiani.it	Mosaic for pool basin finish
6	The Mosaic Factory	www.themosaicfactory.com	Wall mosaic (oval fingers); pool and bathroom wall finishes
7	Refin Ceramiche	www.refin.it	Wall and floor tiles
8	Kerakoll	www.kerakoll.com	Grout
9	Isinac	www.isinac.com	Acoustic ceiling panels
10	ShowTex	www.showtex.com	Stretch ceilings in corridors
11	Interface	www.interface.com	Carpeting in corridors and office areas
12	Liralighting	www.liralighting.pl	Lighting fixtures in common areas
13	Wever & Ducre	www.weverducre.com	Lighting fixtures in patient rooms
14	Kolo	www.kolo.com.pl	Sanitary ware in bathrooms
15	Duravit	www.duravit.com	Sanitary ware in bathrooms
16	Geberit	www.geberit.pl	Concealed cisterns and flush plates
17	Hansgrohe	www.hansgrohe.pl	Bathroom fittings in patient rooms
18	Lubelska Wytwórnia Dźwigów LIFT SERVICE S.A., Lublin	www.lift.pl	Passenger lifts
19	Elkay	www.elkay.com	Drinking water distribution systems
20	Salto	saltosystems.com	Hotel lock system
21	Oase	www.oase.com	Water treatment system for external decorative basin
22	Schima	www.schima.pl	Nurse call system (medical staff)
23	True Design	www.truedesign.it	free-standing furniture (chairs, armchairs, tables, sofas)



Contractors

No.	Contractor	Contact	Scope of Works
1	Soletanche Polska Sp. z o.o., Warsaw	warszawa@soletanche.pl www.soletanche.pl	Foundation works / excavation support
2	ELWOZ Sp. z o.o., Miechucino	elwoz@elwoz.pl www.elwoz.pl	Structural frame construction
3	Anko Sp. z o.o., Stegna	a@anko.al www.anko.al	Perforated sheet metal facades; internal metalwork
4	Eljako-Al Sp. z o.o., Legionowo	sekretariat@eljako-al.pl www.eljako-al.pl	Metalwork: windows, glazing, glazed connectors
5	Hemont Sp. z o.o., Gdańsk	hemont@hemont.com.pl www.hemont.com.pl	HVAC installation
6	Hemont Sp. z o.o., Gdańsk	hemont@hemont.com.pl www.hemont.com.pl	Sanitary installations
7	P&P Sp. z o.o., Orle	www.pp-orle.com.pl	Electrical installations

Consultants

No.	Consultant	Address	Discipline
1	Statikus	Orzechowa 5, 80-175 Gdańsk	Structural engineering
2	Profen Sp. z o.o.	Plac Małachowskiego 2, 00-066 Warsaw	Sanitary and electrical installations
3	iGreen	Aleja Wilanowska 75/11, 02-765 Warsaw	Landscape architecture

