



Vaelma®
MODULAR WALL SYSTEM

Turn Key Solutions

GMP Cleanrooms

2025

The operating theatre
has always been a unique
place designed for saving lives.
The more it evolves,
the more lives can be saved.



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Who we are

Axis Medical is a construction, planning and trading company with many years of experience in the construction market. Our expertise is the health care sector, especially **Operating Theatres, Intensive Care Units, Clean Rooms, Aseptic Areas in general.**

What we do

TURN KEY SOLUTION

Services

- Architectural, Electromechanical and Static Studies
- Pharmaceutical Cannabis Consulting
- Validation (EU GMP, ISO 14644)
- Clean Room Container
- Chemo Maker

Construction

- Vaelma®** - Modular Wall System
- Ceiling System
- Hermetically sealed Doors
- Floor System
- Air Conditioning - Laminar Flow Systems
- Medical gases

Why us

High experienced and special educated in hospital design scientific staff, ensure high quality products and services at each stage of the project, from design to construction.

As an outcome of our long term experience for quality products in Greece and abroad, we co-operate with Domestic & European firms targeting to the best value for money solution.

Our company attains the following certifications: ISO 9001:2015, ISO 14001:2015, ISO 13485:2016, ISO37001:2016, ISO 45001:2018, and MD: ΔΥ86/Γ.Π.ΟΙΚ./1348/2004 (Distribution of Medical Technological Products)

Our latest news



Axis Medical, within the framework of the Hellenic Republic Asset Development Fund projects, has participated in nine tenders and undertaken the renovation of public hospitals across Greece. Specifically, the company will manage the complete renovation of the Emergency Departments at AHEPA Hospitals, Gennimatas-Agios Dimitrios, and the General Hospital of Arta. Additionally, the projects include renovation and energy upgrades at the General Hospital of Pyrgos, electromechanical works, energy upgrades, and internal space renovations at the General Hospital of Messolonghi, renovation of hospital wards at the General Hospital of Nafplio, remodeling and expansion to add five new beds to the Intensive Care Unit at the General Hospital of Giannitsa, and renovation of the Operating Theaters at the General Hospital of Edessa. Apart from public projects, we are also preparing to sign private projects throughout Greece and abroad.

Turn-key solution

“Our best advertising is our satisfied customers”

Architectural, Electromechanical and Static Studies

We offer all type of building plans and studies: Architectural, Electromechanical, and Static. Our engineers, with extensive experience technical knowledge, and continuous following updates with regards to technological development, can conduct studies for hospitals, business premises, cleanrooms and all type buildings related to our core business. Our company undertakes the design and implementation of all kinds of installation in existing or under construction building, residence, professional or industrial space.

Pre-Study

It is the initial phase, during which alternative solutions are investigated and the form of the building is finalized:

- Conceptual design and architectural diagram
- Process of new Architectural drawings or
- Updates of existing architectural studies
- Drafting of a preliminary architectural proposal
- 3D renderings
- Architectural pre-study
- Electromechanical pre-study
- Static and topographic drawings and plans

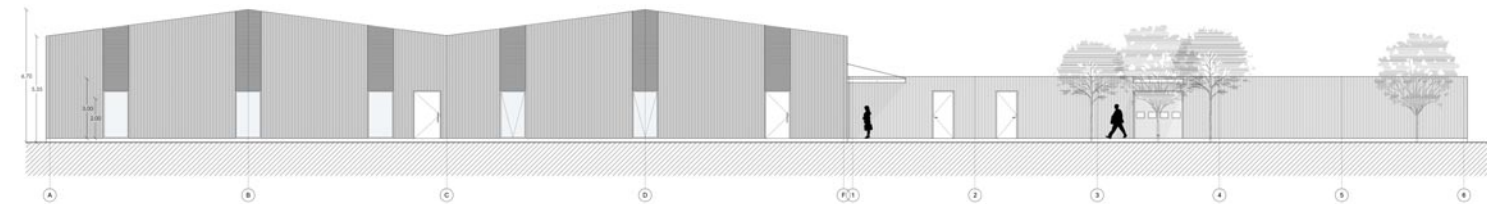


AXIS
medical
construction

Final Study – Building license studies

It is the phase in which the studies of all disciplines (architectural, static, and mechanical) are finalized and based on them the building is licensed by the urban planning office. We have a well comprehended knowledge of the Greek law in order to deal with the public services and issue any type of building license.

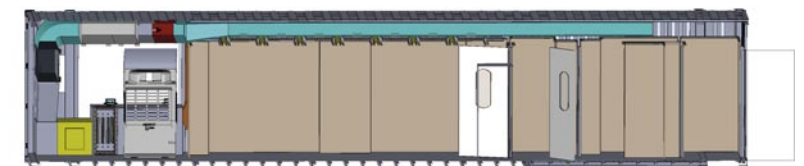
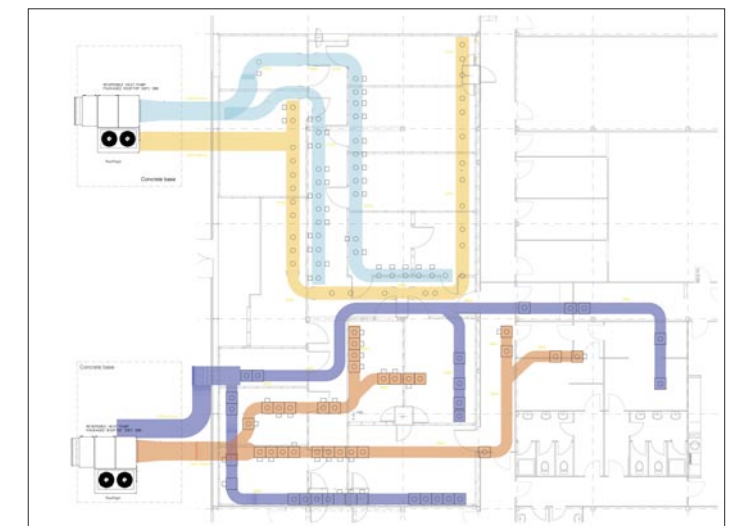
- Detailed floor and ceiling plans
- Sections/ Elevations
- Technical description and drawings used for architectural and E/M purposes
- Bureaucratical and public services paperwork



Detailed Design – Tender Documents – Implementation studies

Detailed plans and constructional details, specifications for materials, supportive material for to elaborate the contractor during the materialization of each project. Necessary for the tender and the proper supervision of the construction works.

- Elaboration of a construction study:
 - Final architectural plans
 - Ceiling Plans
 - Floor Plans
 - Structural details
- Compilation of tender documents
 - Documents of general and special specifications
 - Technical description
 - Construction budgeting



Pharmaceutical Cannabis Consulting Services

Axis medical provides consulting services on compliance with EU cGMP and cGACP (GACP certification is a prerequisite for the following mandatory EU cGMP certification when herbal medicinal products and APIs are produced) requirements. Our services are focused on Pharmaceutical Cannabis facilities which intend to attain an EU production license.

— Evaluation and preparation

- Evaluation of the layout, processes, flows and cGACP-cGMP pharmaceutical cannabis compliance
- Development and sizing of a **CONCEPTUAL** design study and corresponding growing areas/green-houses layout

— Equipment selection

Technical assistance in the:

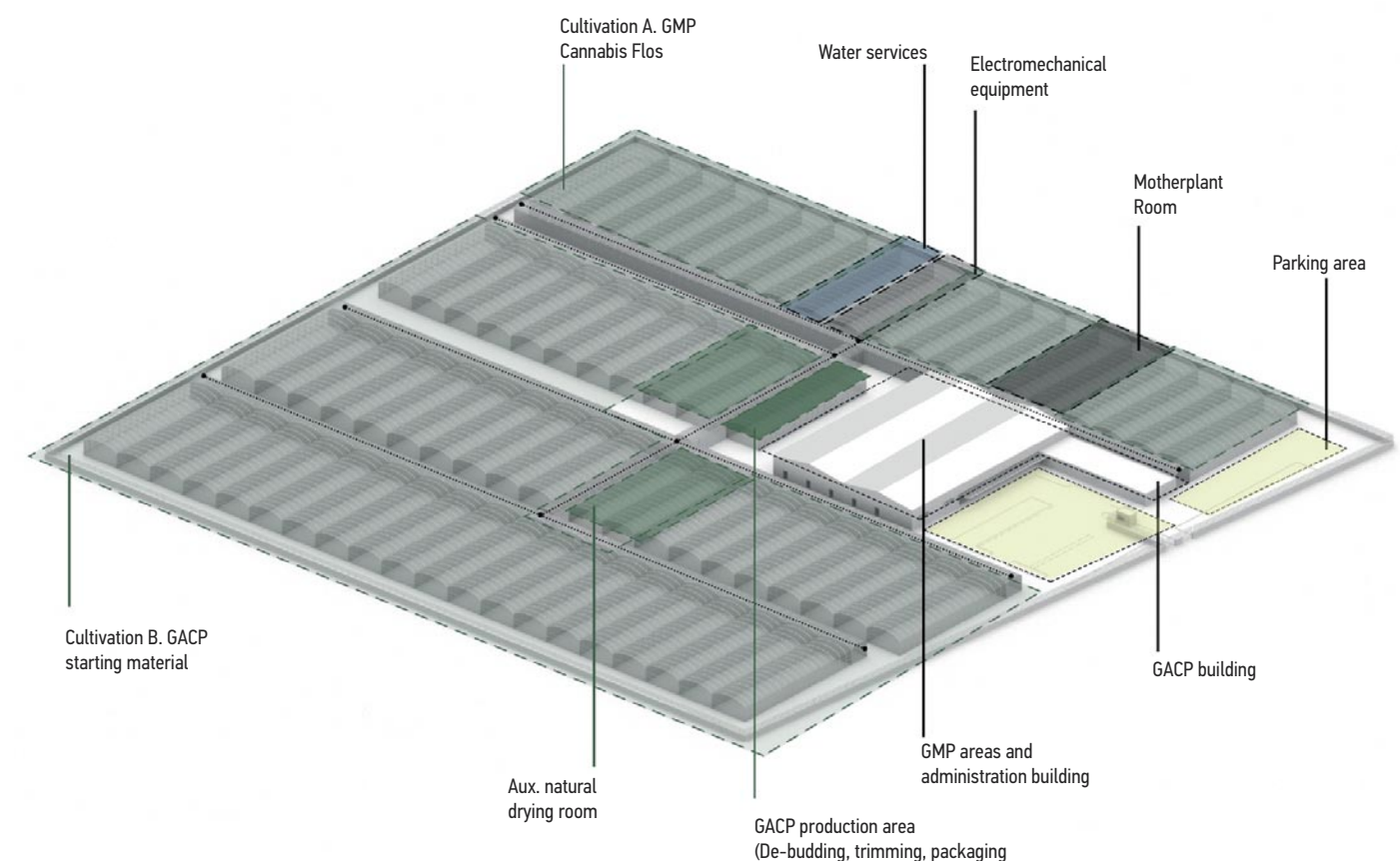
- Construction materials
- Greenhouse/Indoor design and climate control equipment
- Overview of cultivation equipment and materials
- Trimming, drying, grinding equipment, and post-harvest pre-processes overview and determination.
- Preparation of a full list of the typical production equipment (post-harvest process steps) and QC Laboratory equipment for ensuring compliance with EU cGMP

— Personnel recruitment

- Preparation of a list of necessary personnel in accordance with the layout, the scale of the investment and the anticipated production capacity of the Contractor's facility.
- Assistance in recruiting suitable production/processing and QC laboratory personnel according to EU cGMP and national pharmaceutical legislation.

— cGACP and EU cGMP certification preparation

- Development of the GACP Management System
- Development of the EU cGMP Pharmaceutical Quality System
- Oversight and approval of the additionally required SOPs
- Training of all Contractor's personnel with regard to the GACP Management System and the EU cGMP Pharmaceutical Quality System
- Evaluation of all IQ/OQ/PQ reports for the equipment installed, including evaluation of calibration certificates.
- Internal Audit of the GACP management system and GACP Application preparation and submission to the selected Certification Body.
- Internal Audit of the EU cGMP Pharmaceutical Quality System and Management Review preparation for the EU cGMP Pharmaceutical Quality System
- Oversight of the application file that will be submitted to the selected competent authority prior to the audit for acquiring the Manufacturing Authorization License and the EU cGMP Certification.



Validation (EU GMP, ISO 14644)

Good Manufacturing Practice (GMP) is a system for ensuring that products and services are consistently produced, offered and controlled according to quality standards. The design and construction of cleanrooms must be based on EN ISO 14644 and GMP guidelines.

The basic principles and application of qualification and validation are described in Annex 15 of the PIC/S and EU Guide of GMP. A GMP certification reinforces the assertion that the project meets all the criteria to be fully operational and functional with the objective of providing the required quality level.



Clean Room Container



A clean room container is a modular, self-contained unit designed to meet strict cleanliness and contamination control standards. These containers are equipped with high-efficiency air filtration systems, including HEPA or ULPA filters, to maintain controlled environments with minimal particulate matter. They can be customized with features such as temperature and humidity control, anti-static flooring, and hygienic wall panels to comply with industry standards like ISO 14644 and GMP regulations. Clean room containers are widely used in industries such as pharmaceuticals, biotechnology, electronics, and food production, providing a flexible, cost-effective, and rapidly deployable solution for critical manufacturing and research applications.



Chemomaker

ChemoMaker+ is an innovative technology for the automated compounding process of patient-specific chemotherapy drugs that offers multiple benefits. ChemoMaker+ offers an automated compounding procedure, leading to crucial benefits, such as increasing patient safety lowering operators' risk of contamination reducing operating costs optimizing the use of drugs increasing accuracy time-efficient, as it can prepare up to 12 patients' therapy dose at the same time.

How it works

— Sterile environment

The system is based on a robotic unit, able to fully automatize the dosing process (i.e.: the transfer of drugs from vials to infusion bags). Patient doses, ready to be administered, are prepared in a sterile environment, and the compounding robot, is placed under a sterile laminar flow hood. A closed system (patent pending) prevents contamination.

— Accurate medicine doses

The proper formulation is guaranteed by a real-time gravimetric control system (patent pending) able to ensure dosage accuracies up to 1%, more than one order of magnitude higher than the precision allowed by the European Pharmacopoeia in manual preparations.

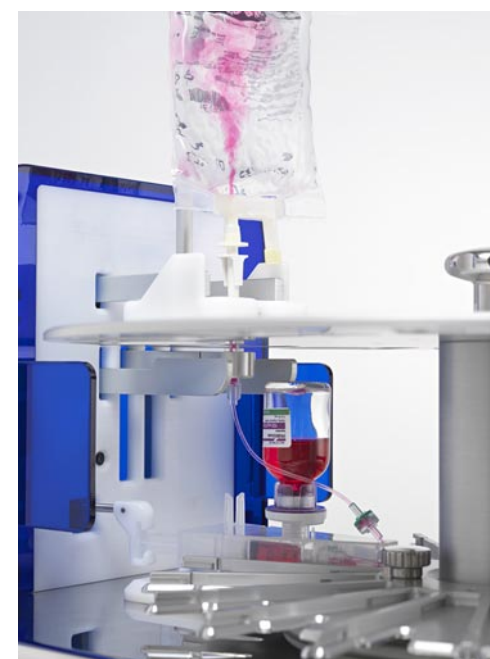
— Traceability

ChemoMaker+ is wireless connected to a computer, which allows the operators of the hospital pharmacy to organize the preparation activity according to the prescriptions received from the oncology departments. All materials are identified by barcodes and RFID tags for maximum safety. Multiple automatic checks assure high accuracy and safety of the final product.

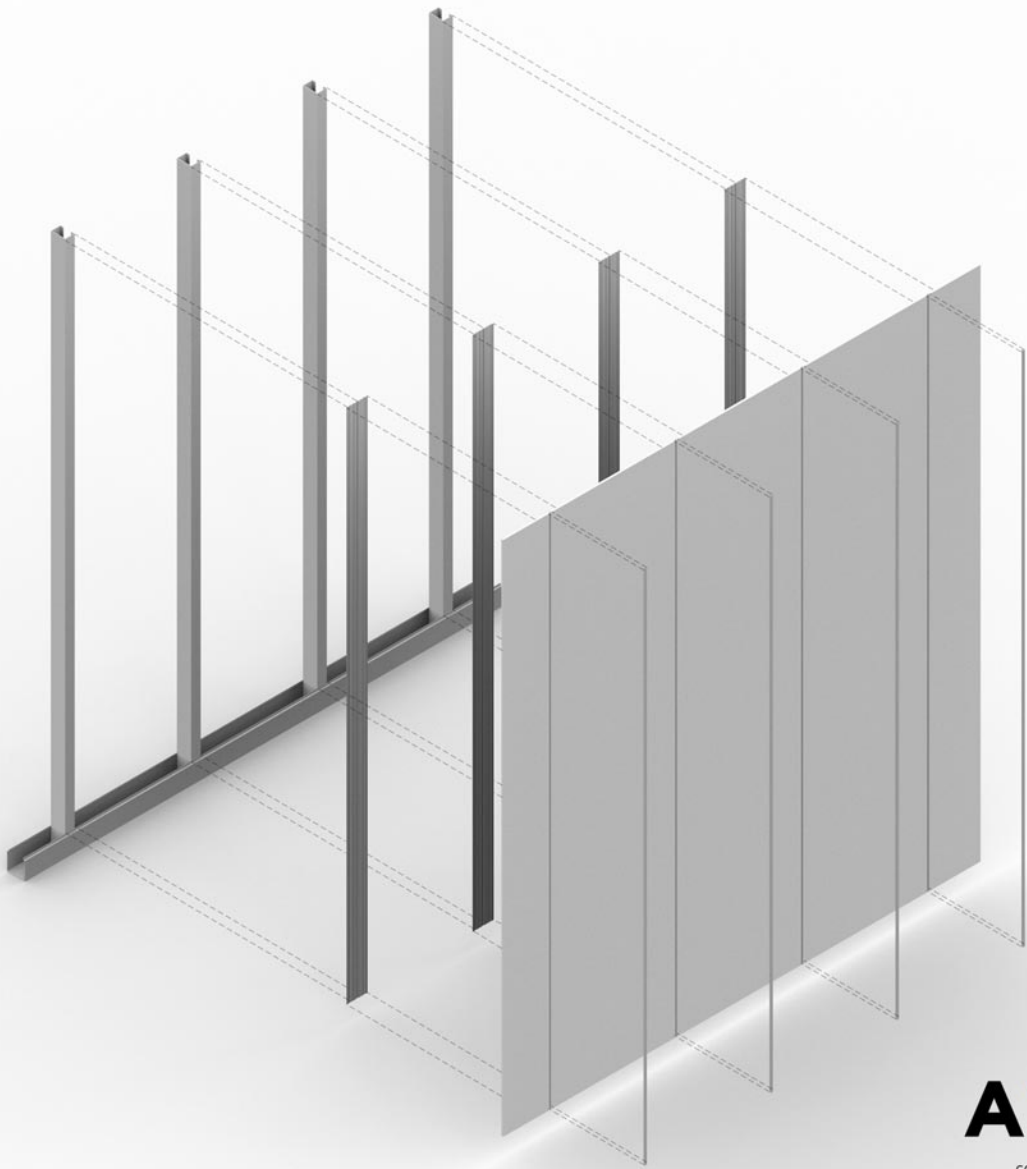
— Safety

The drug is dosed directly into the final containers intended for administration (bags, syringes, elastomeric pumps), to avoid any subsequent manipulation, preventing contamination for healthcare professionals and patients.

Axis Medical is exclusive distributor of ChemoMaker in Greece.



Vaelma® MODULAR WALL SYSTEM



— General info

Vaelma® is a modular wall system which is used in clean rooms and hygiene areas in hospitals clinics etc. Such a system consists of a thoroughly designed substructure which hosts all the needed E/M infrastructure and includes special parts for corners, finishing materials installation and wall elements' mounting.

What is important about **Vaelma®** is that it forms a non-porous, hermetic, and flush antibacterial surface which is the main requirement in order to create a clean and controllable environment.

— Substructure - Finishing materials

The Axismedical Modular wall system substructure is suitable for all the four material solutions:

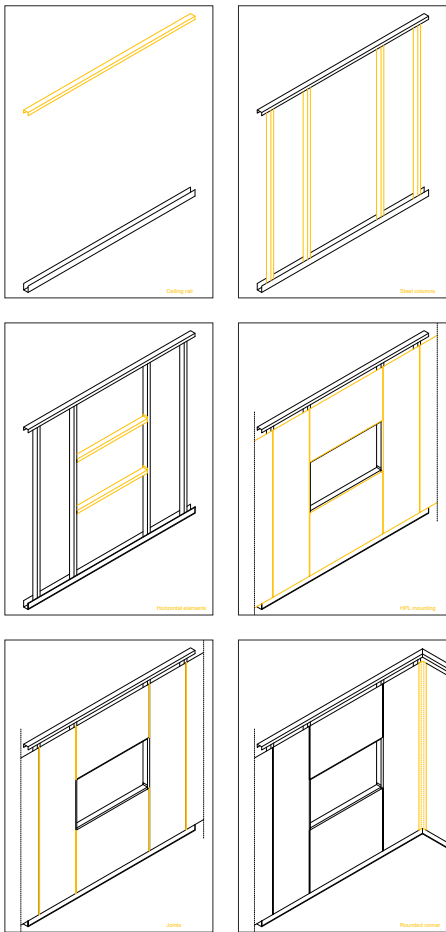
- HPL
- Stainless steel
- Galvanized steel
- Glass
- SMS

This specially constructed steel frame is designed to host the panels in a way that they are perfectly mounted and in the same time independent and individually removable.

Between the panels, at the joints we can install aluminum, rubber or silicon gaskets according to the specifications.

— Technical Features

- Absolute flatness
- Vertical level adjustment of sub frame
- Hermetic sealing
- Sound insulation
- Non-flammable materials
- Ease of disassembly - individuality of panels



HINT

Why modular?

Prefabrication is offering a Flexible, Cost effective and Time effective solution.

The contemporary needs in healthcare infrastructure are becoming more challenging and complicated.

It is crucial to be able to construct a real hygiene space with the state-of-the-art materials and characteristics in few hours, factory treated, well designed before construction on-site.



Turn-key solution / Construction

Vaelma® MODULAR WALL SYSTEM

— Antibacterial HPL cladding

Vaelma® HPL consists of modular panel elements, which are characterized by high chemical and high surface resistance to mechanical influences.

Being fully flexible, the individuality of the panels allow installation and dismantling in a very short time. Joints between the panels are sealed with special silicone, rubber or aluminum rounded parts, meeting all requirements of internationally accepted regulatory standards (such as GMP).

According to each project's individual requirement, cut-outs and electrical channels are prepared already in our production site or in advance (factory fabricated on demand). Detailed and early-phase engineering ensures best quality and an efficient on-site installation process.

Benefits:

- Savings in cleaning
- Simple surface treatment (no Special treatment)
- Minimization of assembly time
- Local repairs possible
- Level differences minimized by vertical joints

Advantages:

- Antibacterial and highly chemical resistant
- Heavy duty surface
- Low maintenance
- Design flexibility
- 10-year product guarantee
- Tested and Certified
- "Green" material





Turn-key solution / Construction

Vaelma® MODULAR WALL SYSTEM

— Metal cladding

The 13.5 mm thick tray-type wall panels are made of metal sheet, the edges of which are double- folded. The backs of the tray-type wall panels have a series of drilled holes in the second flange for fixing purposes.

Chipboard panels 12mm thick or gypsum boards 12.5mm are forming the panel backing and create a robust panel. The double bending of the metal (SS or GS) sheet has special holes enabling the panels to be easily fitted to the substructure columns with screws, which are covered by the joint material at a next stage. Mineral wool in customizable thickness and volume, can be inserted to provide thermal and acoustic insulation.

Benefits:

- Savings in the substructure
- Reduction of fasteners
- Minimization of assembly time
- Local repairs possible
- Level differences minimized by vertical joints

Advantages:

- Customized cleanroom wall panels.
- Surface and depth can vary
- Individuality of panels
- Simple installation through simple system
- Provision for E/M works installations

— Antibacterial Wall Covering (MWall)

M-Wall Hygienic features a finely structured surface designed to actively inhibit the growth of harmful bacteria, ensuring superior hygiene standards. Offering exceptional chemical resistance, it meets fire safety requirements with a B-s2, d0 classification, making it an ideal solution for cleanrooms, laboratories, hospitals, and the pharmaceutical industry.

Innovative and cost-effective, this wall protection is manufactured from a homogeneous PC/ABS blend, free from chloride and bromine. It complies with the stringent EN 13501 fire classification and holds a B-s1, d0 certification. Its versatility makes it suitable for hospitals, care facilities, educational institutions, airports, and storage areas.

Benefits:

- Active antibacterial (MRSA resistance)
- Excellent chemical resistance
- High scratch and impact resistance
- Highest fire rating
- Antistatic
- Matt embossing
- Not shiny or glossy
- Easy to install
- Joints sealed by hot welding or silicon sealing



Turn-key solution / **Construction**

Vaelma® MODULAR WALL SYSTEM

— **Glass cladding**

The wall system consists of a substructure for wall heights up to 4000mm. The glass wall panels can reach a maximum height of 3000mm. Glass is an ideal cleanroom material, because it is completely non-porous, it is resistant to almost all chemicals, it is scratch and dent resistant and adhering dirt can be easily removed. Our experience has shown that glass breakage rarely occurs as the glass panels we provide are secure and oven cooked meaning that they cannot break by hitting the surface. Main advantage, though, is the ability to print any graphics creating an extraordinary visual effect in the room.

<p>Benefits:</p> <ul style="list-style-type: none"> • Savings in cleaning • Simple surface treatment (no Special treatment) • Minimization of assembly time • Local repairs possible • Level differences minimized by vertical joints 	<p>Advantages:</p> <ul style="list-style-type: none"> • Customized cleanroom wall panels. • COLORPRINT HD. Digital print Glass • Individuality of panels • Simple installation through simple system • Provision for E/M works installations
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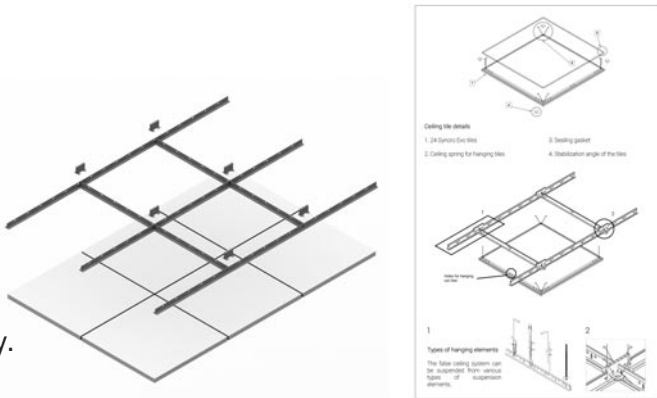


Turn-key solution / Construction

CEILING SYSTEM

General info

The panel modules match with the wall system grid dimensions and each panel can be detached individually.



Technical Features

- Ceiling fixture rail
The substructure consists of support and cross profiles, fixed together to form a rigid grid which can match with the wall panel grid.
- Ceiling Panels
All laboratory requirements regarding hygiene, tight- ness, ease of installation and surface quality are com- plied with our systems.

Range of surface finishing materials

- HPL (High Pressure Laminate)
- Stainless Steel grade 304, grade 316 or steel sheet (painted, powder coated)
- Galvanized steel fixed-dimension fixtures antibacterial - hermetically sealed



Turn-key solution / Construction

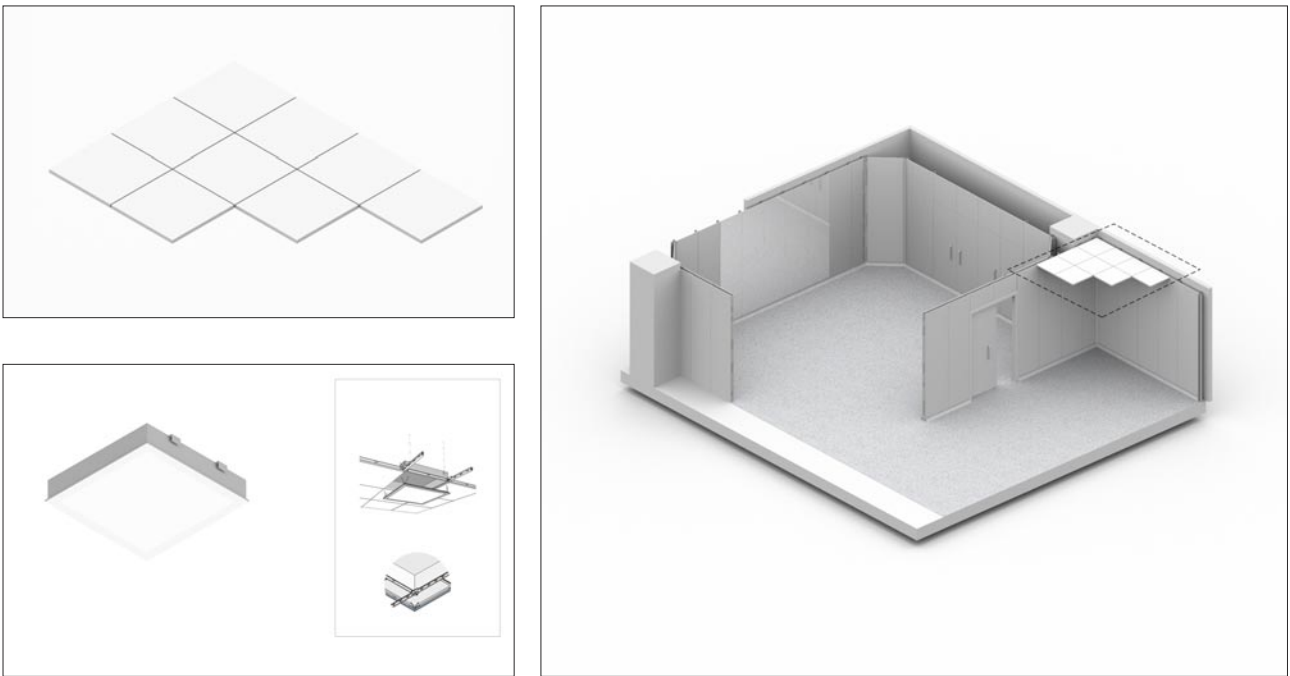
CEILING SYSTEM

LED Luminaries iP54 and iP65

Luminaries in health care facilities and other rooms of controlled environmental parameters might be built based on variable product solutions. Wide range of differential luminaries in terms of light sources, control systems, emergency lighting systems, power supply etc.

Series of luminaires recommended for clean rooms where increased IP protection degree is required. Version for LED light sources with two types of diffusers: microprismatic and opal available. Luminaire dedicated for installation in recessed and 600×600 ceiling with visible grid and with OPAL diffuser.

Economically effective LED luminaire of high endurance designed for clean environments and industrial areas with need for higher protection rate. Sandblasted and tempered glass provides a high degree of protection of light sources and uniform light distribution.



HERMETICALLY SEALED DOORS

— Hospital doors & windows

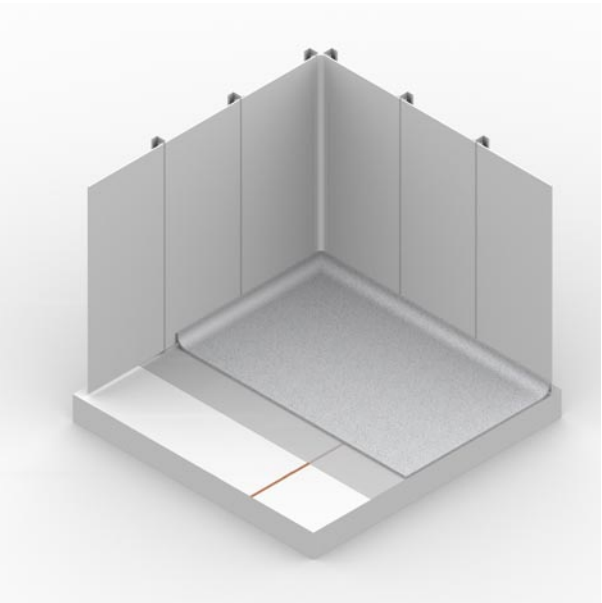
Hermetic doors create a controlled environment by reducing air leakage and therefore the potential for cross contamination. They are specifically designed for use in any areas where air permeability, hygiene, and noise insulation are critical, such as operating theaters, laboratories, clean rooms, and silent areas. Some specialized facilities have very high requirements for doors– for example, X-ray rooms require radiation protection. Operating theaters and intensive care units need to be hermetically sealed to prevent air contamination and enable special equipment to be used safely.



FLOOR SYSTEM

— Antistatic floors

Dissipative flooring, antistatic (< 2kV), flexible homogeneous floor coverings available in both sheet and tile form. Calendared and compacted with permanent antistatic properties. They act as a continuous dissipater $10^6 \leq R_t \leq 10^8$ (EN 1081) and comply with EN 649.



— Conductive floors

The conductive floors properly installed (with a grid bronze and grounding) alienate any electrostatic charge created. Used in areas with very high standards of safety and sensitivity of electronic equipment such as Operating Theatres. The standard electrical resistance is $5 \times 10^4 \leq R_t \leq 10^6$ (EN 1081). It complies with EN 649.

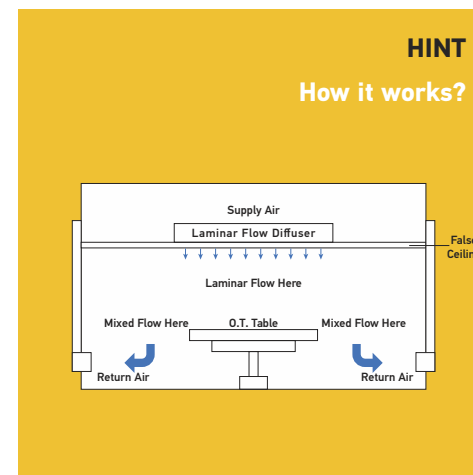
Turn-key solution / Construction

AIR CONDITIONING - LAMINAR FLOW SYSTEM

Laminar Flow systems works with a vertical, turbulence-free displacement flow.

Our expertise:

- Volume estimation, suggest the proper product for every case.
- Supply and installation of the basic mechanical equipment which is composed of units and systems manufactured abroad, the products of which are traded by the company, or by any other domestic or foreign manufacturer for the proper construction of each project.
- Supply of secondary equipment and materials as well as complete construction.
- Tests, inspections, measurements and adjustments of the installation for delivery in normal operation.
- Preventive maintenance (service) of the installations after the construction, on the basis of scientifically drawn-up program for the maintenance of the equipment and systems by specialized personnel of the company.
- Customized solutions according to the specs.



Turn-key solution / Construction

MEDICAL GASES

AXISMEDICAL can offer all necessary parts for the installation of a complete medical gas system.

Medical gas terminal units / outlets / pendants / BHU – LM Medical Division



Turn-key solution / **Construction**

VISUALIZATION

— **OPT control panel**

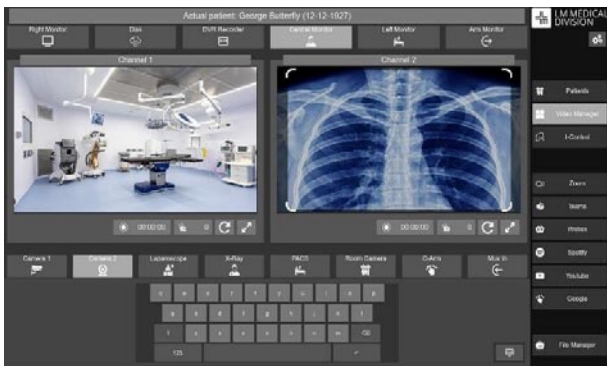
OPT Control Panel, is the central device for providing all the necessary control signals, alarms and information required in an Operating Theater. OPT Control Panel allows the medical personnel to have only one, familiar source of information and provides easy access to technical personnel for inspecting and maintenance of several different subsystems, without disrupting the wall infection integrity.



— **OT Monitors / Medical IT solutions / Video integration**

Main characteristics

- Monitor sizes 19" to 75"
- Variable housing technology (flush mounted, wall mounted etc)
- Optimized picture quality (up to 4K)
- Wide range of extensions
- Certified medical device
- Hygienic surfaces easily cleanable



Wall-mounted workstations in the operating theater for applications such as KIS, RIS, PACS (digital x-ray film viewer), control and navigation workstation for room control and video management and universal wall monitors as image targets for video endoscopy or PACS.

Selected Projects

“The perfect project
is a teamwork’s result”

Projects / **Selected projects**

— **Evgenidio Therapeftirio, 3rd floor renovation, Athens, Greece**

This project involved the full renovation of a private clinic in Athens, with a primary focus on the 3rd floor of the hospital. The scope of work encompassed upgrades to flooring, painting, WCs, ceilings, furniture, and the electromechanical system. The renovated area now includes 12 hospital wards and a gastroenterology clinic. A key highlight of the renovation is the gastroenterology clinic, which now features two newly constructed Operating Theaters (O.T.s), enhancing its surgical capabilities. The entire project was successfully completed within an impressive 45-day timeframe.

Client: Evgenidio Therapeftirio

Region: Athens, Greece

Area: 470 sq.m.

Use: Private clinic

Year of construction: 2024



Projects / **Selected projects**

— **Evgenidio Therapeftirio, Axial Tomography, Athens, Greece**

The project was completed within a remarkable 40-day timeframe, encompassing several critical upgrades. Key tasks included the installation of lead lining for X-ray shielding, along with the fitting of specialized lead doors and windows to ensure optimal radiation protection. Additionally, the ceiling was refurbished, and new lighting fixtures and flooring were installed to enhance the overall environment. Prior to the renovation, Axis Medical efficiently removed the existing tomography unit.

Client: Evgenidio Therapeftirio

Region: Athens, Greece

Area: 110 sq.m.

Use: Axial Tomography

Year of construction: 2024



Projects / **Selected projects**

— **University General Hospital Attikon, Operating Theatre, Athens, Greece**

This project involved the construction of a specialized surgical room equipped with a mobile CT scanner. Key works included cladding the masonry with lead for radiation protection, installing MWall antimicrobial cladding, reinforcing the floor to support the wheel axle installation, and adding lead-protected flooring, doors, and windows. Additional installations included medical gas systems, air conditioning, and control panels. The project was successfully completed within just 15 days.

Client: University General Hospital Attikon

Region: Athens, Greece

Area: 49 sq.m.

Use: Operating Theatre

Year of construction: 2024



Projects / **Selected projects**

– **University General Hospital of Larissa, Pediatric Intensive Care Unit, Larissa, Greece**

This project involved the complete renovation of the Children's Intensive Care Unit, encompassing both construction and electromechanical upgrades. Construction Works: Installation of new flooring, ceilings, and doors, along with painting and furnishing. Electromechanical Works: Implementation of a new water supply and drainage network, fire protection system, air conditioning, strong and weak current systems, and medical gas infrastructure.

Client: University General Hospital of Larissa

Region: Larissa, Greece

Area: 260 sq.m.

Use: Pediatric Intensive Care Unit

Year of construction: 2024



Projects / **Selected projects**

– **Hygeia, Private Clinic, Ptolemaida, Greece**

Construction of New CT Scan Rooms at HYGIEIA Private Clinic. The project involved the construction of new CT scan rooms in the basement level of the clinic, covering an area of 90 sq.m. The work included building radiation-shielded walls according to radiophysics specifications, installing a new suspended ceiling, conductive flooring, and lead-lined doors and windows for radiation protection. Additionally, a complete electrical installation was carried out to support the CT scanner's operation, along with air conditioning and plumbing system installations.

Client: Hygeia, Private Clinic

Region: Ptolemaida, Greece

Area: 90 sq.m.

Use: Axial Tomography

Year of construction: 2023



Projects / **Selected projects**

– **Construction of Hemodynamic Laboratory, Renovation-Restructuring of Coronary Unit - ICU and non-invasive laboratories B' & C' Cardiology Clinics at Hippokration Hospital, Thessaloniki**

This project was a donation of Stavros Niarchos Foundation to Greek Public – Hippokration Hospital of Thessaloniki. Construction of Hemodynamic Laboratory, Renovation, Restructuring of Coronary Unit – ICU and non-invasive laboratories. Design customized by our company in cooperation with Alexander Dovas Architect and Associates and constructed by Joint Venture of Axis Medical with Ergoschima EE. Metal antibacterial false ceiling, lighting fixtures, Automatic and Manual HPL Doors, Wall and corner protectors Electrical, intercom staff and nurse call system, phone and data networks, complex music streaming, video intercom & access control, electrical panels, wiring, distribution networks. Air conditioning, installation of two new air conditioners for fresh air, construction of networks air ducts, post-heating elements, absolute HEPA filters, installation VRV system. Construction of new WCs, new sanitary ware, water and drainage networks, connection with the existing ones. Installation of new radiators and construction of a piping network in the sanitary areas. Medical gases and medical gas consoles.

Client: Stavros Niarchos Foundation

Region: Thessaloniki, Greece

Area: 720 sq.m.

Use: Operating theatres

Year of construction: 2022



Projects / **Selected projects**

— Construction of new Special Infections Unit at AHEPA Hospital

Construction New Special Infections Unit of AHEPA hospital. This Unit is constructed in such a way as to prevent the transmission of airborne diseases, such as SARS-CoV-2, to protect both patients with infectious diseases and staff. Negative Pressure Chambers are isolation wards for patients suffering from infectious diseases, constructed in such a way as to prevent the transmission of airborne diseases, such as SARS-CoV-2, for the purpose of mutual protection of both patients and staff. The chambers are provided with an uninterrupted condition of negative pressure through the air conditioning / ventilation system, preventing possible contamination of the rest of the unit. This system also ensures the removal of viral load by being equipped with filters suitable for this purpose, while the doors of the chambers operate with an interlock system, which does not allow the opening at the same time as the central door. The Special Infections Unit was created in an independent ward of the Hospital, which was renovated thanks to donations from institutions, organizations and companies. Among the donors is Axis Medical, which offered the study of the project.

Client: AHEPA General Hospital

Region: Thessaloniki, Greece

Area: 240 sq.m.

Use: Special Infections Unit

Year of construction: 2021



Projects / **Selected projects**

— Construction works of removal an old linear accelerator machine and configuration for the installation of the new machine

As part of this project, the old wooden roof was dismantled and replaced with photo wallpaper, the floor was excavated to remove the base of the old machine and covered with epoxy flooring. The staff workplaces were equipped with workbenches, while a new plastic floor was installed, and walls were lined with wallpaper and melamine.

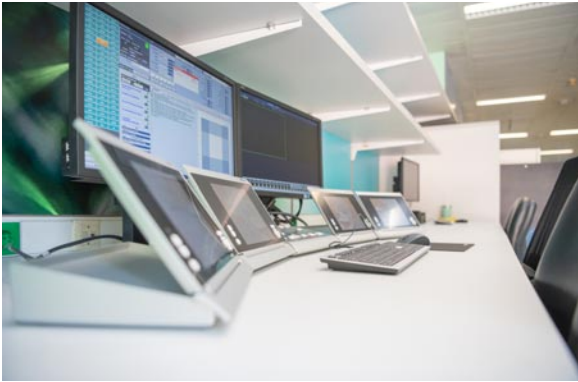
Client: Papageorgiou General Hospital

Region: Thessaloniki, Greece

Area: 320 sq.m.

Use: Linear accelerator machine

Year of construction: 2021



– **Supply of 18 Portable Bed Intensive Care Units and Accompanying Necessary Equipment**

The project carried out complete electrical and plumbing installations, supply and installation of a new central air conditioning unit, installation of medical gas consoles and piping networks for installation of medical gas and hotel equipment for the needs of patients in ICU. The bearing body of the huts is made of metal with hot rolled sections. It consists of columns and beams with clear static function, as provided by the study that is prepared and is able to receive all possible loads, both during use and during lifting and transport. The whole construction ensures complete rigidity and does not allow oscillations from dynamic loads.

Mobile ICU provides a clear solution in the event of an emergency public health risk that requires an increase in the capacity of ICU beds. The portable unit provides all the medical equipment needed for patients and can be connected to communicate with hospital facilities. The innovation of the portable unit is due to its ability to be installed quickly and safely where there is an increased need for ICU beds.

Client:	Committee GREECE 2021
Region:	G. Papapanikolaou General Hospital, Thessaloniki, Greece
Area:	324 sq.m.
Use:	ICU
Year of construction:	2021



Projects / **Selected projects**

– **Renovation of ICU at “G. Gennimatas” and “Agios Dimitrios” General Hospitals, Greece**

Renovation - restructuring of an ICU with a capacity of three beds in a room, on the 2nd floor of the main building of the General Hospital “G. Gennimatas” in extension of the operating ICU. This project also included restructuring of an ICU at Agios Dimitrios Hospital. Both projects were a donation of Stavros Niarchos Foundation. The projects included all construction, electromechanical and infrastructure works for the integration of equipment (medical, hotel and Information and Communication Technology – ICT equipment).

Client: Stavros Niarchos Foundation

Region: Thessaloniki, Greece

Area: 111 sq.m.

Use: ICU

Year of construction: 2020



Projects / **Selected projects**

– **Renovation and Arrangement of a Surgery
Clinic – AHEPA GENERAL HOSPITAL
of Thessaloniki, Donation “Emilios Chronis”**

Demolitions of masonry, roof, floors were carried out. Flooring, internal partitions, plasterboard cutters, ceramic tile coverings and construction of false ceilings from mineral fiber tiles. The project included complete electrical, plumbing installations, supply and installation of a new central air conditioning unit and piping networks for medical gas installation.

Client: Odosimansi C. Chronis S.A.
Region: AHEPA General Hospital of Thessaloniki, Greece
Area: 1115 sq.m.
Use: Surgery Clinic
Year of construction: 2020



Projects / **Selected projects**

– **Pharmaceutical Cannabis Facility – King Field**

Laboratories construction according to GMP standards. Turnkey installation of all the laboratories for the processing of the product. The scope of work includes Modular Wall System with antibacterial HPL panels, false ceiling with antibacterial clip in tiles, iP54 lighting fixtures, HVAC system according to the GMP standards with HEPA filters, positive differential pressure between the cleanrooms and the unclassified areas, critical areas will be constructed as Grade D and Grade C. We also provided and installed transfer hatches between for the material transfer and cleanroom doors. Finally, Axismedical was responsible for all the GMP folder regarding the construction (DQ, IQ, OQ) and the final certification of the facility.

Client: King Field Doo
Region: Ohrid, N. Macedonia
Area: 250 sq.m.
Use: Pharmaceutical Cannabis production plant
Year of construction: 2020



Projects / **Selected projects**

– RSUD Kepanjen Public Hospital – 2 Modular Operating Theatres

The project included a turn-key installation of two Modular Operating Theatres. The scope of work included VAELEMA © system with antibacterial HPL panels as well as digital printed glass, false ceiling with antibacterial clip-in tiles, iP65 lighting fixtures, lead lining for x-ray shielding, touch screen surgical control panel, Medical Gas Outlets and Laminar Flow System with return ducts suitable for ISO 6, conductive floor covering, lead lined automatic hermetical doors and HPL built-in cabinets

Client: Pt. Megah Alkesindo

Region: Kepanjen, East Java, Indonesia

Area: 100 sq.m.

Use: Operating theatres

Year of construction: 2019



Projects / **Selected projects**

– **IVF Embryolab - Operating theatres and Laboratories renovation**

The project included a turn-key renovation of the embryo-transport areas (OTs), the embryology Lab, the Andrology Lab and the Cryopreservation rooms. The project is constructed according to the GMP annexes related to the cleanroom constructions. The scope included VAELEMA® system, automatic doors, hermetic antibacterial ceilings and lighting fixtures, antistatic and conductive floor covering, cleanroom HVAC system installation with HEPA, VOC and UV filters, medical gas installations and DP monitoring.

Client: Embryolab Fertility Clinic
Region: Thessaloniki, Greece
Area: 140 sq.m.
Use: IVF laboratories and operating theatres
Year of construction: 2019



Projects / **Selected projects**

– **AHEPA University Hospital, Renovation of Angiography Department, Thessaloniki, Greece**

Renovation of the angiography department in AHEPA Hospital in Thessaloniki. The project was a donation from the Stavros Niarchos Foundation through M.A.Z.I, a Non-Governmental Organization and included the procurement and installation of the modular wall system with HPL panels, the general construction of flooring, false ceiling, lighting fixtures, wall partitioning and painting, lead lining for x-ray shielding, special lead doors and lead glass windows as well as the laminar flow system.

Client:	Proton SA
Region:	Thessaloniki, Greece
Area:	135 sq.m.
Use:	Angiography and utility rooms
Year of construction:	2019



Projects / **Selected projects**

– **GH of Volos, Digital OR construction, Volos, Greece**

Procurement and installation of the modular wall system with HPL panels, and digital print glass panels which is an outstanding innovation for Greek public hospitals, the construction of flooring, false ceiling, LED impermeable lighting fixtures dimmable in white and blue color, as well as minor improvements regarding the ventilation, power and medical gas outlets.

Client:	Proton SA
Region:	Volos, Greece
Area:	400 sq.m.
Use:	Operating theatre
Year of construction:	2019



Projects / **Selected projects**

– **Children’s Oncology Unit - GMP Laboratory for cell and gene therapy**

The project included the design and construction based on GMP standards lab (Clean room grade D, C and A-B). It is a lab following the GMP rules in the whole construction and work procedure.

Client: ELPIDA association of friends of children with cancer

Region: Agia Sophia children’s hospital, Athens, Greece

Area: 60 sq.m.

Use: GMP laboratory for bone marrow transplant unit

Year of construction: 2019



Projects / **Selected projects**

– **Obstetrics & Gynecology Hospital, NICU department renovation, Sakakah KSA**

Modular Wall System with HPL panels in different colors and designs customized by our company in cooperation with the MoH engineers, metal antibacterial false ceiling, lighting fixtures ip54 impermeability rated, Automatic sliding Hermetical Doors, Smart glass installation in all NICU rooms for privacy control, Scrub units, Digital printed HPL panels for wall decoration with antibacterial standards, Design and procurement of reception desk for the Nurse station.

Client: Wahran Est.F.C.

Region: Sakaka, KSA

Area: 650 sq.m.

Use: NICU

Year of construction: 2018



Projects / **Selected projects**

— **Camark Italia, production unit for medical stitches, Axioupolis, Greece**

Construction of production unit for medical stitches
Planning, building permission, operational permission, architectural design and construction of the production plant as well as the warehouse, offices and reception - visitors areas. The Lab area design is based on GMP standards and constructed as GMP certified. The laboratory areas' grade is D constructed with a grade C potential.

Client: Camark Italia

Region: Axioupolis, Greece

Area: 1100 sq.m.

Use: Laboratory

Year of construction: 2017



Projects / **Selected projects**

— **Assisting Nature, IVF Center, Thessaloniki, Greece**

It is a sophisticated unit, the only one in Northern Greece which has a modern embryology laboratory, and provides services in the field of embryology, diagnosis and treatment of sub-fertility. It is a very elegant area of 750 sq.m. including a state-of-art embryology laboratory and high quality daycare spaces for patients and attendants.

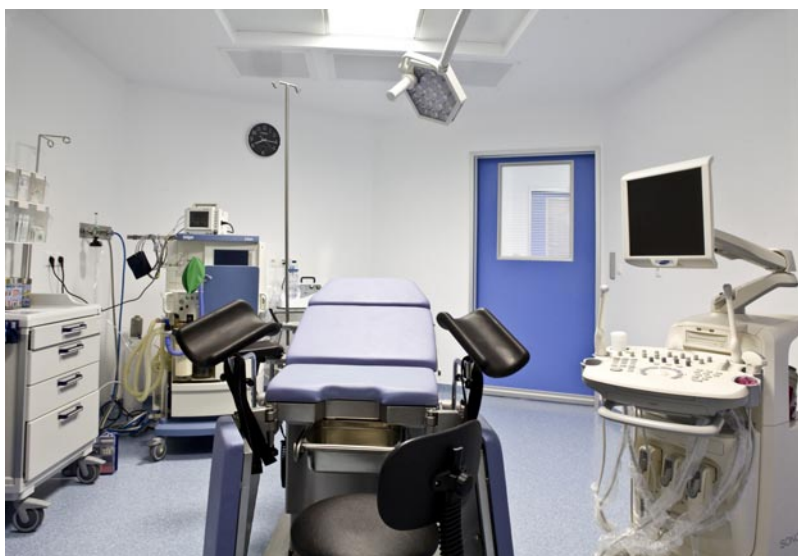
Client: Assisting Nature

Region: Themi, Thessaloniki, Greece

Area: 750 sq.m.

Use: IVF center

Year of construction: 2013



AXIS

facts



20
YEARS OF ACTIVITY



≥206
PROJECTS IN GREECE



≥23
PROJECTS ABROAD



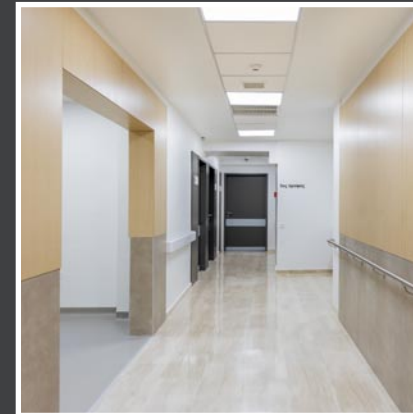
≥24.000
m² OF PROJECT AREA



≥10.350
m² OF PROJECT VAELEMA



≥140
OPERATION THEATERS



BUILDING STANDARDS



AXIS
medical
construction

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