

# AXIS MEDICAL



## Axis Medical Wall & Ceiling System with SMS



# Wall System



The wall system in its core is based on a technological modular unit that is designed to clad and divide the interior space of controlled air environments in a flexible and functional manner. The design ensures that the unique self-loading and free-standing substructure can be clad with all types of specifically engineered finishing panels without the use of screws or any other fixed mechanical joints (known as Screwless Technology). The outer surface of a wall surface is created with high – tech materials such as Solid Mineral Composite Sheet (SMS) and accompanied with an aluminum frame backing system. This system offers overall ease of cleaning and sanitization of the partitions. The system has no corners and adjacent surfaces are molded flush by means of connecting elements. It offers maximum versatility at the planning stage and flexibility during erection, ensuring openness to future alternations and maintenance. The system ensures perfect integration of technical networks and allows ample operational flexibility on the construction site. The clean and dry installation method enables optimum programming of the various work phases, allowing optimization of the installation of technical systems and any necessary alterations to be made, right up to inspection and final testing of the installed systems right before the modules are sealed.

***The Axis Medical Wall & Ceiling Cladding System*** is comprised of:

- A. Sub frame/Structure
- B. Wall Panels
- C. Angular Air Extraction module
- D. Sealing gaskets
- E. Ceiling Panels

# Sub-Frame/Structure

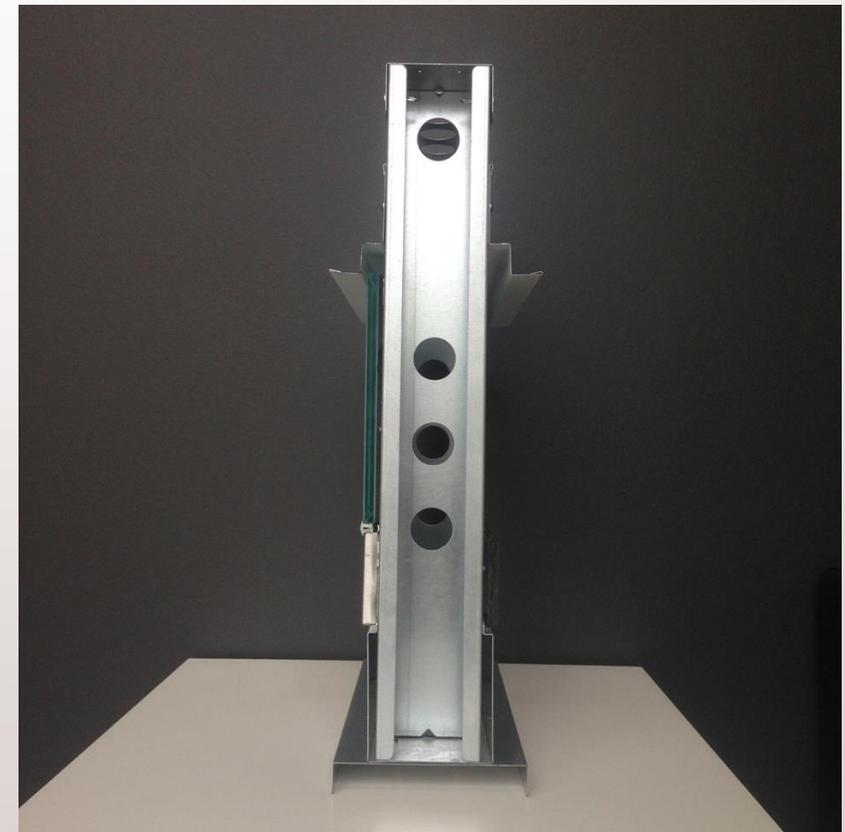


The sub-structure frame is made of galvanized steel pillars with broad cross section and dual cavity, geometrically designed to achieve exceptional rigidity. The substructure, with its FREE-STANDING technology, minimizes the interference with all electromechanical systems to be installed. It is possible to adjust and secure the profiles, ensuring the maximum rigidity and self-loading capacity of the subframe system.

Front View:



Side View:



# Wall Panels



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The cladding finishing is Solid Mineral Composite Sheet (SMS) panels of 3mm thickness, backed by a 15 mm thick structural panel consisting of a trapezoidal aluminum corrugated core glued between two flat aluminum sheets.

- External facing is bacteriostatic, dense and of non-porous material
- The panel is made of a durable and uniform material that is easy to clean and extremely hygienic
- The internal balancing core is characterized by suitable geometry to ensure maximum rigidity
- The total thickness of the panel including the aluminum backing is not less than 18mm
- The panels are resistant to water and detergents normally used in hospital environments
- Bear a reaction to fire class 1 norm



In order to create a smooth and uninterrupted surface between adjacent panels and thereby preventing the risk of accumulation of dust and bacteria in gaps, the panel is produced in a single full height floor-to ceiling piece. The wall modules are individually and independently dismountable from the ceiling and floor system to allow inspection, maintenance of technical systems, and any variations that may become necessary for future alteration, modification and repair.

# Sealing Gaskets



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Sealing gaskets are non-toxic silicone rubber that are inserted around all the contact perimeters and in-between the various materials, hermetically sealing gaps between modules to ensure optimum space segregation and ensure that sterile air pressure values are maintained in the protected environment as this is a fundamental prerequisite for guaranteed sterility. It is seamlessly connecting the surface



# Ceiling Panel

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The hermetic suspended ceiling is a loading structure in heavy gauge material forming the grid on which the ceiling panels are made of 3mm Solid Mineral Composite Sheets (SMS). The total thickness of the ceiling panel is 9mm or more.

The system effortlessly allows the integration of sealed lighting fixtures, air aerostats and other various service units. The variable module grid makes it possible to adapt the size of the ceiling module to match the equipment to be mounted. It also allows the use of different module sizes within the same room.

The grid is formed of loading profiles, suspended from the ceiling slab, to which the crossbar profiles are secured by means of rigid mechanical couplings. The thus formed grid is rigid and remains perfectly stable during all the subsequent site operations. The suspended ceiling is hermetically sealed by means of non-toxic silicon gasket application and it is durable, non-degradable and resistant to micro-organisms.

# CE Declaration of Conformity



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The wall and ceiling system is in compliance with European CE norms

		
<b>I. IOANNIDIS S.M.P.C – AXIS MEDICAL</b>		
<b>DECLARATION OF CONFORMITY</b>		
The manufacturer,		
Name: I. IOANNIDIS S.M.P.C Address: G. Karavageli 4, Kalamaria, Thessaloniki Phone: +30 23130 36458 Fax: +30 23130 35451 E-mail: info@axismedical.gr		
Hereby states that the product:		
<b>Axis Medical Modular Wall &amp; Ceiling Cladding System with Solid Mineral Surface</b>		
Is in compliance with the provisions of the European Community Directive:		
<b>BUILDING PRODUCT DIRECTIVE 89/106/EU</b>		
Provided that the installation and operation will be carried out by an experienced crew in accordance with the Manufacturer's Instructions and Recommendations.		
IOANNIDIS I. C.E.O August 7, 2019		
		
<small>AXIS MEDICAL I. IOANNIDIS MONOPROSOPHIKE PLANNING CONSTRUCTION COMPANY HOSPITAL EQUIPMENT TRADING 4, G. KARAVAGELI STR - 55133 KALAMARIA THESSALONIKI TEL: +30 2313 036 458 VAT: EL800541795 - EORI: GR800541795</small>		