



HEALTHCARE SEGMENT

Smart solutions for **demanding** environments



IDEALLY POSITIONED TO RESPOND TO YOUR SPECIFIC REQUIREMENTS

Healthcare buildings are probably the most demanding when meeting safety, indoor quality and maintenance performances.

However, we cannot forget the comfort of patients and healthcare professionals when designing a healthcare space.

In relation to hygiene, the control of bio contamination and disinfection are of prime importance, to prevent the spread of infectious agents.

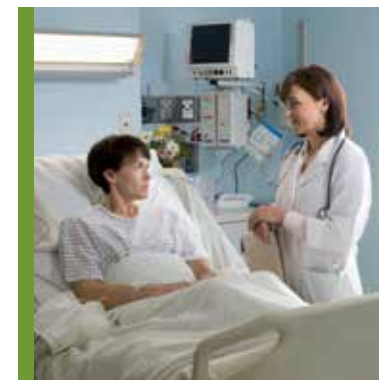
The Armstrong product offer can respond to any specific performance requirement in any healthcare premise.



The healthcare sector is going through a period of change, driven to provide better healthcare environments for patients and healthcare professionals. Major investment programmes have been implemented over the past 10 years and will continue raising the standards of the buildings, equipment and patient care:

- In healthcare premises it is important to focus on **anti-microbial performance**, but without forgetting the comfort of patients and healthcare professionals.
- The provision of the right **acoustic performance** from a suspended ceiling can help patient privacy through sound insulation between spaces and the control of reverberation times within spaces.
- Natural daylight is a very important factor for patients and staff. The use of shallow plan design and the continuous plane of a suspended ceiling with **high light reflectance** will enable natural light to reach far into the building.
- **To meet safety** standards in healthcare premises, especially for patients with limited mobility, it is essential to ensure that the relevant fire regulations are met.

Armstrong takes **environmental and sustainability issues** very seriously. Armstrong offers End-of-Life and Off-Cut recycling programmes which divert ceiling waste from landfill. For further information, contact ATS on 0800 371 849 (UK) and 1800 409 002 (RoI).



WHATEVER YOUR SPACE REQUIREMENTS... WE CARE!

You can find more details and information about country specific norms and regulations at the end of the brochure, through dedicated datasheets. Also, discover our Healthcare Premises and Clean Room environment brochures.

DID YOU KNOW?

THE BIOGUARD SOLUTION

- BIOGUARD is a special treatment paint applied to Armstrong mineral and metal tiles.
- BIOGUARD products have been especially designed for the healthcare sector, and provides **protection against bio-contamination**.
- The BIOGUARD paint has additional components which prevent the build-up of virulent strains of bacteria, moulds and yeasts.
- BIOGUARD products achieve **ISO 5 to ISO 3** in accordance with ISO 14644-1.
- BIOGUARD paint has enhanced resistance to disinfectants.
- BIOGUARD products provide excellent **water-repellency** allowing frequent cleaning.



ZONE: Minimal risk

Halls,
Offices,
Administrative areas

PERFORMANCES



SOLUTIONS

ULTIMA, ULTIMA dB, ULTIMA OP,
PERLA, PERLA OP,
OPTIMA



ZONE: Average risk

Central sterilisation
areas (washing zone),
Pharmacies,
Maternity areas, MRI

PERFORMANCES



up to ISO 8

SOLUTIONS

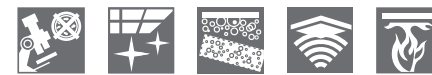
BIOGUARD PLAIN,
BIOGUARD ACOUSTIC,
CLEAN ROOM GRID



ZONE: Severe risk

Intensive care units, Delivery
rooms, 'Small' surgery areas,
Laboratories

PERFORMANCES



up to ISO 7

SOLUTIONS

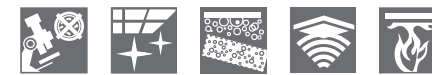
BIOGUARD ACOUSTIC,
METAL BIOGUARD,
CLEAN ROOM GRID



ZONE: Very high risk

Operating theatres,
Transplantation areas,
Burns units

PERFORMANCES



up to ISO 5

SOLUTIONS

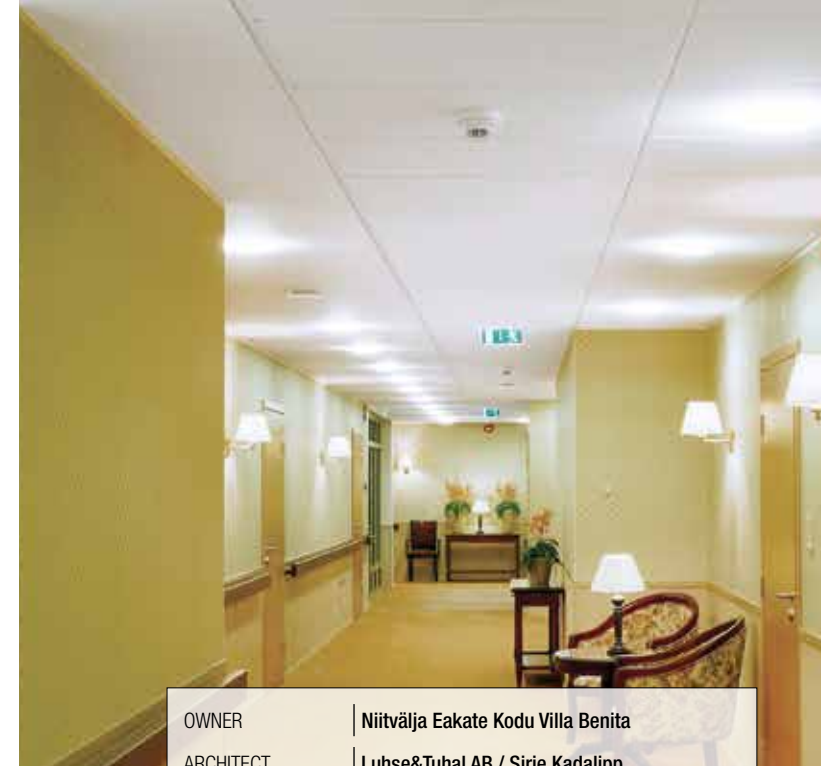
BIOGUARD ACOUSTIC,
METAL BIOGUARD,
CLEAN ROOM GRID

THE CLEAN ROOM GRID SOLUTION

- **ISO 5 Clean Room** performance for CLEAN ROOM Grid (tested against ISO 14644-1).
- Unique, factory applied gasket for a **better seal** between tile and grid.
- Reduces labour cost versus mastic or double sided tape.
- **Hold down clips** to ensure a good seal.
- **Corrosion resistance** due to the aluminium construction.
- **Plastic hold down clip for MRI environments.**
- CLEAN ROOM Grid can be cleaned with diluted **disinfectants** containing active agents such as Quaternary Ammonium, Hydrogen Peroxide and Chlorine.



For more technical information, please refer to page 10.



OWNER	Niitvälja Eakate Kodu Villa Benita
ARCHITECT	Luhse&Tuhal AB / Sirje Kadalipp
AREA	5 500 m ²

VILLA BENITA (EST)

How to meet the demands of a clean clinic environment and at the same time provide acoustical comfort

Our solutions: Ultima, Plain & Bioguard Plain



ARCHITECT	Seymour Harris Keppie
MAIN CONTRACTOR	Balfour Beatty Construction
CEILING CONTRACTOR	Kinder Interiors Ltd
AREA	20 000 m ²

TAMESIDE GENERAL HOSPITAL (UK)

How to create a welcoming and fun experience for children in a hospital setting

Our solutions: Bioguard Acoustic, Ultima Vector

"The innovative printed ceiling designs provide an inviting, comfortable ambience for patients and visitors. A sense of well-being is also achieved due to the fact that the Ultima Vector ceilings reduce background noise significantly in corridor areas with hard surfaces". Paul Kinder - Kinder Interiors Ltd

OISTERWIJK CLINIC (NL)

How to enhance the comfort and ambience of a clinic


Our solutions: Ultima Vector



OWNER	Oisterwijk Clinic
ARCHITECT	DENC Netherlands BV - Berkel-Enschot
CONTRACTOR	VHV Afbouw - Veldhoven
AREA	2 500 m ²





OWNER	St. Jozef Verzorgingstehuis (Wozoco) - Gendt
ARCHITECT	Van aken architecten - Eindhoven
CEILING CONTRACTOR	Peters Plafondsystemen BV - Heesch
AREA	6 000 m ² 

ST. JOZEF AGED CARE FACILITY (NL)

How to provide a tailor-made solution to every hospital space, while meeting demanding comfort and hygiene requirements

Our solutions: Ultima Vector, Perla OP, Ultima Planks, Bioguard Acoustic



HOSPITAL DE SANT JOAN DE DÉU (ES)

How to limit the bio contamination between different spaces in a hospital

Our solutions: Bioguard Acoustic, R-Clip F Planks



ARCHITECT	Joan Prat Aguilar y Toni Codina Jané de CPVA Arquitectes
CONTROL PROJECT MANAGER	Miquel Cid y Toni Torrent (OHSJD)
AREA	47 000 m ²



ARCHITECT	EGM Architecten BV - Dordrecht
CONTRACTOR	Wergo Afbouw BV - Veldhoven
AREA	40 000 m ²

ALBERT SCHWEITZER HOSPITAL (NL)

How to reach demands of cleanliness and sound quality

Our solutions: Perla OP



HEALTHCARE, SMART SOLUTIONS!

MINERAL CEILING TILES		METAL CEILING TILES		GRID
Bioguard Plain	Bioguard Acoustic	Metal Bioguard Extra Microperforated with fleece and Premium B15	Metal Bioguard Plain	CLEAN ROOM Grid

Edge detail	Board	Board	Board	Q-Clip F	24 mm
HTM 60 Category	Category 2, 3, 4, 5, 6	Category 2, 3, 4, 5, 6	Category 2, 3, 4, 5, 6	Category 1**, 2, 3, 4, 5, 6	Category 2, 3, 4, 5, 6
Classification NF S 90-351	Zone 1, 2 & 3	Zone 1, 2 & 3	Zone 1, 2 & 3	Zone 1, 2, 3 & 4	Zone 1, 2 & 3
Particle cleanliness class	ISO 5	ISO 5	ISO 5	ISO 3	ISO 5
Kinetic of decontamination class*	CP 10	CP 10	CP 10	CP 10	CP 10
Bacteriological cleanliness class*	B10	B1	B10	B10	B1
Material	Mineral fibre		Steel with acoustic fleece and mineral fibre infill		Aluminium
Surface	Bioguard Paint	Glass veil with Bioguard Paint	Extra Microperforated with Bioguard polyester powder paint	Unperforated with Bioguard polyester powder paint	PVC
Cleaning	Washable with a damp sponge		Washable with a damp sponge	High pressure water cleaning with mastic sealed bevel joints	Washable with a damp sponge
Resistance to disinfectants	Quaternary Ammonium, Hydrogen Peroxide, Chlorine		Quaternary Ammonium, Hydrogen Peroxide, Chlorine		Quaternary Ammonium, Hydrogen Peroxide, Chlorine
Humidity resistance	95%	95%	95%	95%	100%
Sound absorption	0.15 (L) α_w	0.60 (H) α_w	0.65 (H) α_w	0.10 (L) α_w	-
Room-to-room sound insulation (Dncw)	37 dB	36 dB	40 dB	47 dB	-
Light reflectance	87%	87%	85%	85%	-
Recycled content	52%	52%	30%	30%	25%
Fire reaction	A2-s1, d0	A2-s1, d0	A2-s2, d0	A2-s2, d0	B-s3, d0
Weight per m ²	4.6 kg	3.8 kg	8 kg	5 kg	-

* Please see the Bacteriological Datasheet.

** Proposed Armstrong solution when the bevel joints of the Clip-In tiles are sealed with an appropriate silicone mastic.



Customer Help-desks

UK 0800 371 849
IE 1800 409 002



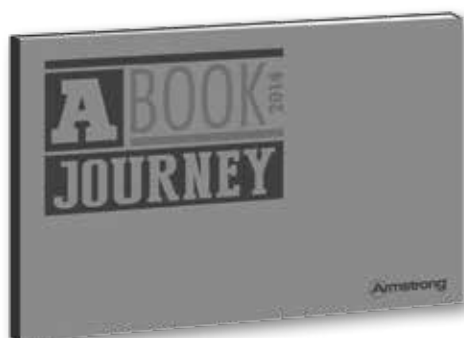
Specialist Teams



The OMEGA programme



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