Acoustics and hygiene in perfect harmony

Ceiling systems at the highest level - **designed by OWA.**

OWA ceiling systems for hygiene-sensitive areas

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From our inception in 1948, we have been committed to innovation and sustainability. Since then, OWA has become the industry name for technically and creatively leading ceiling systems in almost every field of application. This is because we develop and supply innovative and sustainable products for use in the **education, administration, sports & leisure, retail, hospitality**, and **health sectors** as well as in **manufacturing & production**.

OWA – your reliable partner for sustainable hygienic ceilings

Your health is your life. We are more aware of this now than ever before. To be able to maintain and improve our wellbeing and how we perform, locations where **hygienic design** is specifically an essential consideration for people still have to meet the relevant construction requirements. **Balanced acoustics** which promotes collaboration in these spaces is also a particularly important guiding principle.

As experienced providers of design solutions for hygiene-sensitive indoor spaces, we will work with you and everyone involved in the project right from the **specification phase** – whether for a new-build or renovation. We are always on hand with **professional advice** from our team of technical experts.

Special **training courses** provide construction tradespeople, such as decorators and drywall contractors, with guidance to professionally install our systems. In addition, we are happy to provide advice and support **both on-site and digitally**.

The **OWA** brand is synonymous with high-quality ceiling systems that use sustainable materials to provide safety and wellbeing. Feel free to contact us for more information!

The right formula for extremely high hygiene requirements

Convincing arguments.
For a healthy environment.

To meet the extremely high demands of sanitary rooms, clean rooms and high-humidity areas, we are fully committed to developing high-quality ceiling systems, designed with outstanding hygiene properties for your specific needs.

Sustainable production.
Non-hazardous materials.
100% recyclable.

OWA made sustainability an integral production consideration long before it was being discussed in the public domain. Mineral wool, comprising a mixture of recycled and natural raw materials had already been introduced to the German market by 1961. Our mineral wool is biodegradable and 100% recyclable. Numerous awards and quality marks motivate us to maintain our commitment to the environment.

Considerate development.
Scientifically tested.
With a clear purpose.

As a manufacturer with high quality expectations, we see it as our responsibility to have our products regularly tested. Strenuous tests are carried out by accredited testing institutes. This means we can meet our customers' extremely high demands in terms of quality and efficiency.

Prof. Dr. R. Mutters
Institut für Medizinische Mikrobiologie und Krankenhaushygiene
Philipps-Universität Marburg

Sustainable production

We focus on natural components and **sustainable production** by using raw materials **responsibly** and efficiently. We even produce our final mineral wool product ourselves.

Exceptional indoor climate

Air quality makes a decisive contribution to health and wellbeing, particularly in areas with high hygiene requirements. OWA is extremely proud that its products have been **certified as emissions class A+ or A**.

100% recyclable

Our sustainable value chain includes our own recycling process. All used OWA mineral tiles produced after 1st October 1997 are completely recyclable and can be fed back into the **OWA green circle**.

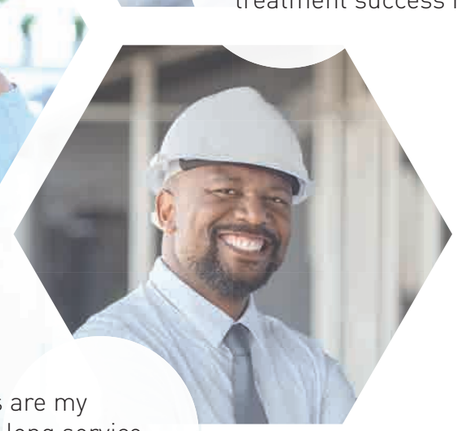
Collaborative.
Holistic.
For our health.

Our special ceilings meet extremely high hygiene and cleanliness requirements. The result – high quality products to aid performance and recovery.

"Thanks to the hygienic design, we can guarantee consistently high quality"

"The excellent hygienic conditions support our treatment success rates"

"Our patients feel comfortable. The pleasant indoor climate contributes to the recovery process."

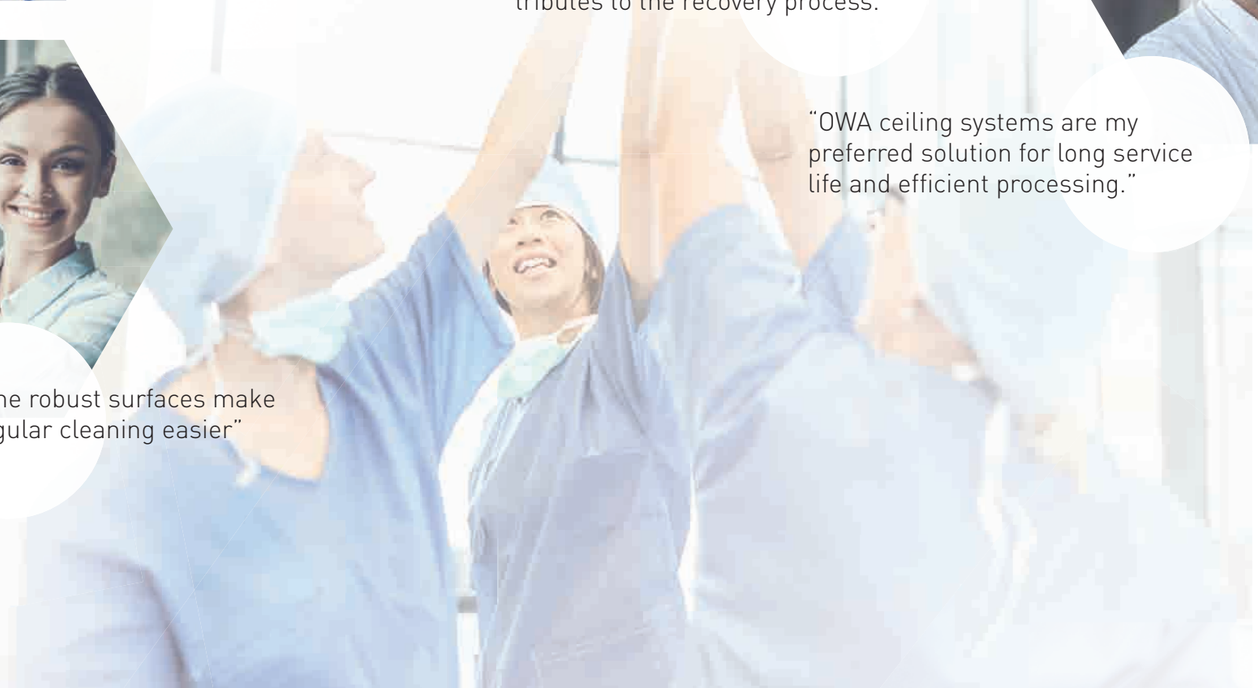


"OWA ceiling systems are my preferred solution for long service life and efficient processing."

"We have an excellent reputation thanks to our optimum hygiene conditions"

"A pleasant acoustic environment helps generate a quiet and discreet reception area"

"The robust surfaces make regular cleaning easier"



Your design choices.
Our product solutions.

OWA ceiling solutions meet extremely high spatial requirements for hygiene-sensitive locations. They also balance the acoustics of your premises, contributing to an atmosphere that positively influences life and work. The result is a better quality of life for everyone using the space. Just get in touch for a free consultation!

Versatile installation options

The guarantee of fundamentally hygienic conditions is becoming increasingly important in nearly every sector.

Our product solutions can be used in administration, retail or education as well as in medical facilities, with the manufacturing sector a further point of focus.

Production facilities

Manufacturing in production facilities for the precision, optical or high-tech industries can only be carried out under special, hygienic conditions. OWA ceiling systems can also be used in these sectors due to their hygienic and acoustic properties. Our system solutions also contribute to ensuring hygiene and cleanliness in the food and drink and pharmaceutical sectors.

Medical facilities

The versatile OWA product portfolio offers tailor-made interior solutions for every area in medical facilities such as hospitals.

Sinfonia mineral ceiling
Moody Outpatient Center, Parkland, USA

Reception area

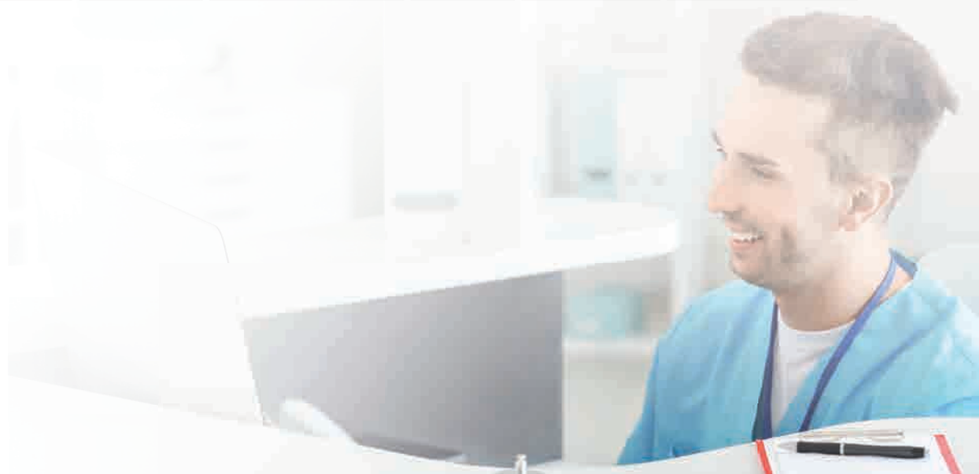
A warm welcome – Harmonious design and acoustic solutions for absolute discretion

Patients and their relatives frequently have high expectations as they enter a hospital. **Uncertainty and fear** are often close to the surface. A friendly greeting at reception is decisive for first impressions and helps to build trust and convey a feeling of security. Discretion and a **pleasant atmosphere** are a prerequisite and these are significantly influenced by the room's **acoustics**.

OWA acoustic solutions offer a **broad product range** which cover **all your requirements** in terms of design and functionality. Patients and visitors are thus given a warm welcome.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Sinfonia	-	Vacuuming, dusting	ISO 5	95% RH	$\alpha_w = 0.85$
Humancare Sinfonia	✓	Vacuuming, dusting, spray disinfectable	ISO 4	95% RH	$\alpha_w = 0.85$



Humancare Lab mineral ceiling visualisation

Laboratories / clean rooms

The right chemistry – Protection and quality assurance through certified ceiling solutions

Tests and quality inspections are expensive and make high **demands** on laboratory premises. The same applies when working with **chemicals, hazardous substances** and **unfamiliar alloys**.

Suspended ceilings in laboratories designed as clean rooms may only emit extremely low quantities of airborne particles in order to meet applicable air purity requirements. EN ISO 14644-1 defines the maximum permissible thresholds. **OWAtecta metal ceiling systems** maintain these threshold values in every class (ISO classes 1 - 9). They are therefore suitable for any clean room area.

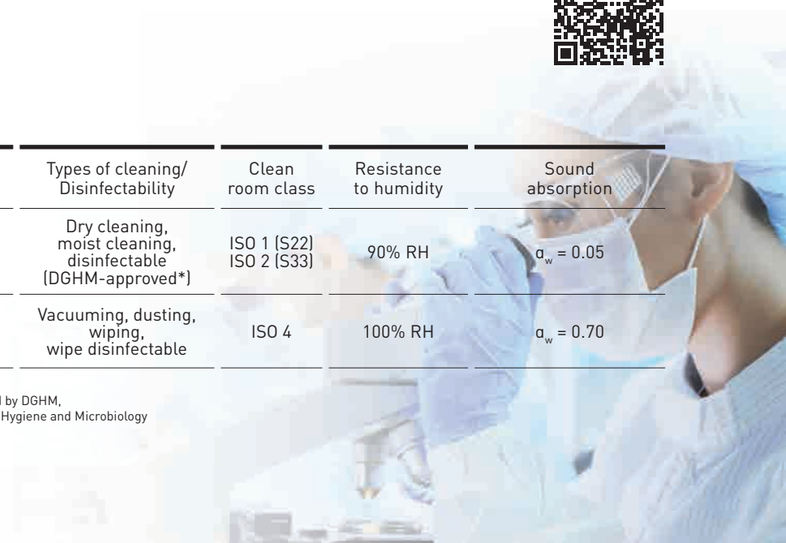
The suitability of ceilings for clean rooms is defined by more than just their emissions behaviour. Equally decisive is how they create distinctions between lower and higher cleanliness classes and how they react to the different air flows which occur in clean rooms.
Both **OWAtecta metal ceilings** and **Humancare Lab mineral ceilings** contribute to **maintaining** the required **pressure level** in the room and thus to **protecting** personnel and test results.

It is also possible to **clean** and disinfect the recommended products without any problems.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
OWAtecta L0	-	Dry cleaning, moist cleaning, disinfectable (DGHM-approved*)	ISO 1 (S22) ISO 2 (S33)	90% RH	$\alpha_w = 0.05$
Humancare Lab NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 4	100% RH	$\alpha_w = 0.70$

* Methods approved by DGHM,
German Society for Hygiene and Microbiology



Humancare Pro mineral ceiling visualisation

Operating theatres / Intensive Care Units (ICU)

Absolutely committed to health – Acoustics to aid concentration meet optimum hygienic properties

Making **life-saving decisions** takes a great deal out of specialist medical personnel. This is particularly true of complex interventions where care has to be taken to ensure **bacteria or viruses** do not develop or spread. Technical **equipment** and large numbers of medical personnel in one room **can make speech difficult to understand**. Instructions may **not be understood** or even **misinterpreted**. The danger of **incorrect treatment** increases.

The special surfaces of OWA hygienic ceiling systems **contribute to a sterile working environment**, inhibiting the spread of bacteria, moulds, viruses and even MRSA pathogens. Well-balanced **room acoustics** make a significant contribution to improved **concentration**.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
OWAtecta L0	-	Dry cleaning, moist cleaning, disinfectable (DGHM-approved*)	ISO 1 (S22) ISO 2 (S33)	90% RH	$\alpha_w = 0.05$
Humancare Pro NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 3	100% RH	$\alpha_w = 0.95$

* Methods approved by DGHM, German Society for Hygiene and Microbiology

Humancare Sinfonia c mineral ceiling visualisation

Corridors

On the path to recovery – Multi-functional ceiling solutions for safety and wellbeing

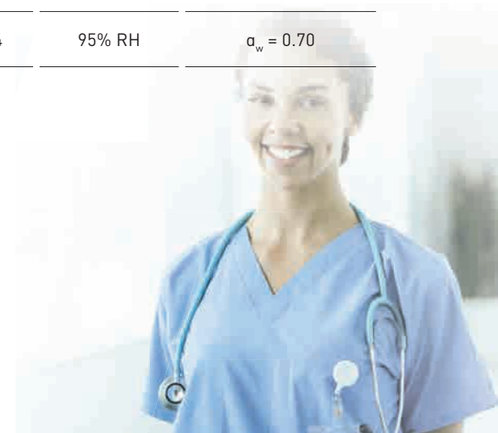
Corridors are definitely the **most heavily frequented areas** in a hospital, whether by personnel, patients and their visitors, or transporting equipment such as bed or wheelchairs. The demands on their functionality are therefore extremely varied.

A clear and calm appearance is important for creating clear access to all premises. Conversations and exchanges when passing require good **acoustics with no echo**. In addition to this, care should be taken to ensure floors are also fitted with materials which can be **cleaned and disinfected** when patients are moved to operating theatres or treatment rooms.

OWA offers **many different solutions** in this area which meet all these requirements.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Sinfonia c	-	Vacuuming, dusting, spray disinfectable	ISO 5	95% RH	$\alpha_w = 0.70$
Humancare Sinfonia c	✓	Vacuuming, dusting, spray disinfectable	ISO 4	95% RH	$\alpha_w = 0.70$



Humancare Sinfonia mineral ceiling
Moody Outpatient Center, Parkland, USA

Treatment rooms

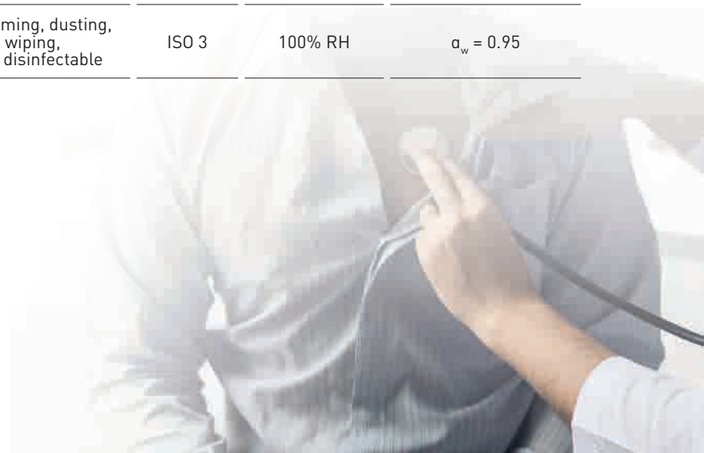
Holistic and thorough treatment – Acoustics and hygiene in harmony

"Next please!" Medical staff attend to every patient's condition in treatment and investigation rooms. This **constant change of use** hides the risk of **infection** through **viruses, germs or bacteria**. **Hospital acquired infections** can prove fatal to some sick people.

Regular **cleaning procedures** and **hygiene** are effective **prevention methods**. All OWA hygienic ceilings can be **cleaned and disinfected** in various different ways including using products which are **effective against SARS-CoV-2**. Choosing a suitable OWA ceiling system also ensures medical staff can concentrate on looking after and caring for their patients.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Humancare Sinfonia	✓	Vacuuming, dusting, spray disinfectable	ISO 4	95% RH	α_w = 0.85
Humancare Plus NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 4	100% RH	α_w = 0.90
Humancare Pro NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 3	100% RH	α_w = 0.95



Humancare Plus mineral ceiling visualisation

Recovery rooms

Room for health – Peaceful and hygienic atmosphere

After **exhausting investigations** or **operations**, what patients want most is **peace** and **quiet**. A recovery space is needed where those in a fragile condition can **build up their strength**.

The design of the room makes a significant contribution to an **atmosphere of wellbeing**. Both the furniture and **efficient acoustic ceilings are essential elements of a quiet environment which promotes recovery**. However, the **hygienic requirements** must also be met at the same time. OWA's wide range of versatile product solutions provides a successful balance between wellbeing and cleanliness.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Humancare Sinfonia	✓	Vacuuming, dusting, spray disinfectable	ISO 4	95% RH	$\alpha_w = 0.85$
Humancare Plus NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 4	100% RH	$\alpha_w = 0.90$
Humancare Pro NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 3	100% RH	$\alpha_w = 0.95$

Humancare Pro mineral ceiling visualisation

Sanitary areas

Excellent facilities – Ceiling solutions stable in moist conditions

Showers or wet rooms in recovery areas produce **a great deal of water vapour** when used frequently, this can damage installed materials. Ceiling tiles in particular are exposed to considerable stress as high humidity can cause them to lose their shape and functionality.

Specially developed Ocean, Mavroc and Humancare Pro hygienic ceilings made from high-quality OWA mineral wool are the perfect solution for high humidity areas. Their short-term relative resistance to humidity of 95% to 100% is a highly advantageous feature.
First-class acoustics undoubtedly come as standard. The best starting point for use in challenging environments.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Ocean	-	Vacuuming, dusting	ISO 4	100% RH	$\alpha_w = 0.95$
Mavroc	-	Vacuuming, dusting, wiping	-	95% RH	$\alpha_w = 0.15 - 0.70$*
Humancare Pro NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 3	100% RH	$\alpha_w = 0.95$

* Values vary by design

Humancare Plus mineral ceiling visualisation

Therapy areas

Safe and certain recovery – Acoustic ceilings with long-lasting hygienic design

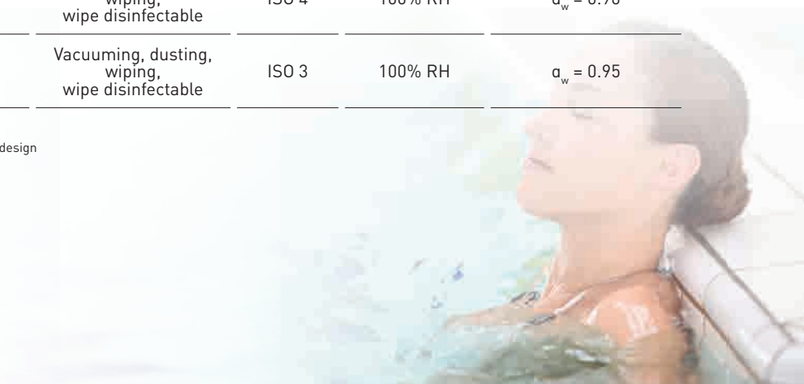
In other high humidity locations such as indoor swimming pools or therapy areas, the choice of products is determined by the **specific local conditions**. If the building materials **come into contact with water and chlorine** the surfaces in the room must be **hydrophobic and non-reactive**. Otherwise, there is a risk of **a build-up of mould** or **other material damage**.

The **Humancare Pro, Plus or Lab** product ranges are particularly well suited to these environmentally challenging areas. They are **hydrophobic** and the **increased corrosion protection** of the special S 3e substructure provides outstanding resistance to the specific conditions in such areas. The **excellent acoustic performance** of the ceiling systems promotes collaboration between patients and therapists.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Mavroc	-	Vacuuming, dusting, wiping	-	95% RH	α_w = 0,15 - 0.70*
Humancare Plus NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 4	100% RH	α_w = 0.90
Humancare Pro NEW	✓	Vacuuming, dusting, wiping, wipe disinfectable	ISO 3	100% RH	α_w = 0.95

* Values vary by design



Sinfonia Silencia mineral ceiling
Reinier de Graaf hospital, Netherlands

Recreation / break rooms

Restore focus – recharge your batteries
Outstanding acoustic solutions for a sense of wellbeing

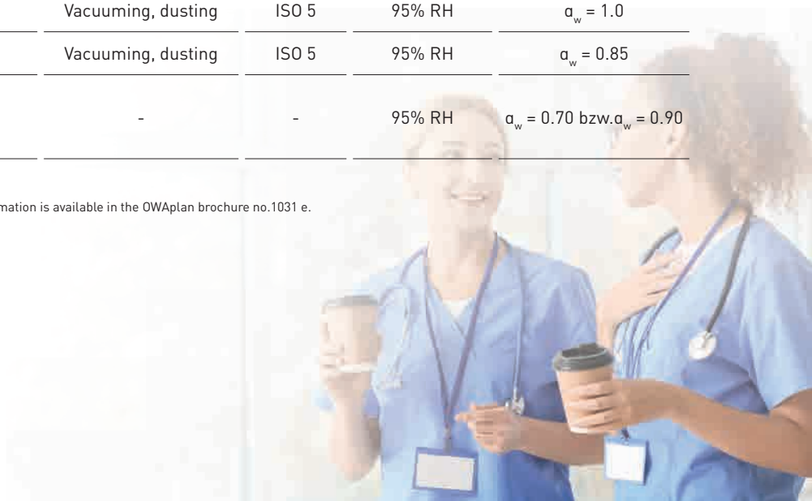
Hospital routines are characterised by a **hectic pace** and **stress**. Employees need a space where they can relax and chat with their colleagues. Patients benefit from being able to meet their relatives away from their bed. A **quiet and discreet room design** makes a significant difference to these brief respites away from the ward.

Boltholes and **communal areas** can be created through customised **room design**. The outstanding **acoustic properties** of high-quality OWA ceiling solutions allow private spaces to be preserved. This means both medical staff and patients are given an **appropriate opportunity to recuperate**.

RECOMMENDED CEILING SOLUTIONS

	Hygienic finish	Types of cleaning/ Disinfectability	Clean room class	Resistance to humidity	Sound absorption
Sinfonia Silencia	-	Vacuuming, dusting	ISO 5	95% RH	$\alpha_w = 1.0$
Sinfonia	-	Vacuuming, dusting	ISO 5	95% RH	$\alpha_w = 0.85$
OWAplan 70 and OWAplan 90* seamless ceiling systems	-	-	-	95% RH	$\alpha_w = 0.70$ bzw. $\alpha_w = 0.90$

* Further information is available in the OWAplan brochure no.1031 e.



Overview of OWA ceiling systems for hygiene-sensitive areas

	Humancare Pro NEW	Humancare Plus NEW	Humancare Lab NEW	Humancare Sinfonia c	Humancare Sinfonia	Sanitas 02 Plain	Mavroc	Ocean	Tecta L0
Hygienic finish	✓	✓	✓	✓	✓	-	-	-	-
Tested to hygiene standards	NF S 90-351:2013 / ASTM D3273 / ASTM 2180-07	NF S 90-351:2013 / ASTM D3273	NF S 90-351:2013	NF S 90-351:2013 JIS Z 2801	NF S 90-351:2013 JIS Z 2801	NF S 90-351:2013 JIS Z 2801	-	-	JIS Z 2801 / Prof. Mutters
Germ reduction rates	up to 7 log units	up to 7 log units	up to 7 log units	up to 5 log units	up to 5 log units	-	-	-	-
Types of cleaning*	Washable, dirt-repellent, scratch-resistant, hydrophobic surface for optimum disinfection when wiped (in accordance with ASTM 2486; ASTM 4828)			Vacuuming, dusting	Vacuuming, dusting	Vacuuming, dusting, wiping	Vacuuming, dusting, wiping	Vacuuming, dusting	Dry or moist cleaning
Disinfectability	Wipe disinfectable / DIN EN 16615, DIN EN ISO 15883 (tested in compliance with DIN EN 16615, DIN EN ISO 15883)			Spray disinfectable	Spray disinfectable	-	-	-	Disinfectable (DGHM-approved***)
Clean room class	ISO 3	ISO 4	ISO 3	ISO 4	ISO 4	ISO 4	-	ISO 4	ISO 1 (S22) ISO 2 (S33)
Resistance to humidity	100% RH	100% RH	100% RH	95% RH	95% RH	95% RH	95% RH, permanent	100% RH	90% RH
Sound absorption	α_w = 0.95	α_w = 0.90	α_w = 0.70	α_w = 0.70	α_w = 0.85	α_w = 0.15	α_w = 0.15 - 0.70**	α_w = 0.95	α_w = 0.05
Application areas	Treatment rooms Recovery rooms Sanitary areas Humid rooms Operating theatres/ICU	Treatment rooms Recovery rooms Humid rooms	Laboratories Positive/negative pressure rooms Clean rooms	Corridors	Reception area Treatment rooms Recovery rooms	Recovery rooms Sanitary areas	Sanitary areas Humid rooms	Sanitary areas Humid rooms	Laboratories Operating theatres/ICU
Product details									

* Detailed cleaning instructions are available in the cleaning recommendations brochure no. 9989
** Values vary by design
*** Methods approved by DGHM, German Society for Hygiene and Microbiology

Expert.
Customer-focused.
We are here for you.

Our sustainable product portfolio offers high-quality solutions tailored to your specific requirements for hygiene-sensitive areas. Use the QR code here to get more details about our system solutions, or visit us online at **owa-ceilings.com**. We are also happy to support your projects in person.

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We look forward to your enquiry!

Notes:

www.owa-ceilings.com

The information contained in this brochure reflects the current status at the time of publication. No liability is accepted for errors or misprints. For specific advice, please contact:

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