

# RESOPAL®

HEALTHCARE

**RESOPAL® Healthcare**  
Functional and decorative surfaces

 **RESOPAL®**

## RESOPAL® Healthcare

In healthcare projects, expertise, high quality, hygiene, and design are the keys to success.

When designing buildings for the hospital- and healthcare sector, special demands are placed on materials. Hygienic functionality, durability and - last but not least - design, make major contributions to patients' care and recovery. Thanks to many years of expertise and continuous research and development, Resopal can offer architects and planners comprehensive assistance in facing these challenges.

While the healthcare system is confronted with rapidly changing technology such as smart hospitals and digitalization, we at Resopal offer continuity and reliability. As a strong partner by your side, we view spaces as a complete entity and help you sustainably design all five areas of the zone system as defined by the RKI<sup>(1)</sup>. Plan core elements such as walls, doors, furniture and bathrooms without compromising on functionality.

Resopal products are resistant to impact, scratches and abrasion, and are heat-resistant and lightfast. They are also stain-resistant, easy to clean and disinfect, and resistant to water, solvents and most chemicals. Flame-retardant versions are available if required.

Resopal also supports you with one of today's greatest challenges - maintaining the highest standards of hygiene. Thanks to a special additive, our HPL, compact panels and HPL bonded boards all have antibacterial properties as standard. Evidence shows that this prevents bacteria, including MRSA pathogens, from colonizing, minimizing the effort of regular cleaning protocols and providing patients with additional protection.

Our products can therefore be used in reception areas, patient rooms, corridors and special wards, right through to operating theatres. Let yourself be inspired by the wide range of possible applications - illustrated in our reference projects.

<sup>(1)</sup> The Robert Koch Institute (RKI) is the government's central scientific institution in the field of biomedicine. It is one of the most important bodies for the safeguarding of public health in Germany. ([https://www.rki.de/EN/Content/Institute/institute\\_node.html](https://www.rki.de/EN/Content/Institute/institute_node.html))





# HEALTHCARE

FUNCTIONAL AND DECORATIVE SURFACES

## TABLE OF CONTENTS

05	OUR EXPERTISE
11	AREAS OF APPLICATION
17	PRODUCTS & APPLICATIONS
29	DECORS & INSPIRATION
41	DECISION SUPPORT
47	REFERENCE
113	PRODUCT INFORMATION
116	IMAGE RIGHTS

# OUR EXPERTISE



# OUR EXPERTISE

A one-of-a-kind partner

A photograph of an operating room with surgical lights and a patient table. A teal semi-transparent box is overlaid on the left side of the image, containing text.

## SUPPORT FROM PLANNING THROUGH TO THE OPENING OF HEALTHCARE FACILITIES

As a partner with over 90 years of experience and expertise, Resopal works with stakeholders in both the public and private healthcare sectors and offers expert support in both new construction and refurbishment projects.

Healthcare facilities must constantly reinvent themselves to meet ever-changing challenges. We therefore consider all your architectural requirements, including:

- User comfort and well-being through the creation of functional, coherent and tastefully designed spaces.
- Patient-appropriate design of treatment and care areas for improved healing architecture.
- Schedule planning for an effective, profitable investment, considering technical, regulatory and financial requirements.

We can offer you holistic decorative and functional solutions that meet your stringent requirements in terms of installation, maintenance and care.



## TAILOR-MADE PRODUCTS FOR SPACES OF ANY KIND

### ALWAYS AT YOUR SIDE

You can count on us throughout every stage of your project - success and time saving are guaranteed. We are known not only for our detailed knowledge of our products, but also for our excellent service.

#### DATA MODELLING FOR CONSTRUCTION PROJECTS

BIM models containing more than 30 technical features per product can be downloaded from the RESOPAL website.

#### EXPRESS DELIVERY OF SAMPLES

All samples ordered by 3:00 pm are dispatched on the same day.

#### TECHNICAL DATA SHEETS

The technical properties of our products comply with current standards and customers' needs.

#### DATA SHEET ON RESISTANCE OF RESOPAL® SURFACES

A list of more than 100 commonly occurring or used substances that have been tested on our products (RESOPAL HPL and RESOPAL COMPACT).

#### PROCESSING INSTRUCTIONS

Important information on using our products for desired applications.

#### CLEANING AND CARE INSTRUCTIONS

Overview of resistance to disinfectants according to the RKI list and test report on the decontamination of RESOPAL surfaces.





## OUR CONTRIBUTION TO THE FUTURE

We place great importance on the environmental compatibility of our products in their production, during use and in their disposal.

For example, we were able to significantly reduce the use of electrical energy in our production process by 2.6 gigawatt hours annually through heat recovery.

In addition to electricity consumption, the use of water is also a resource-intensive element in the manufacturing of our products. We have therefore implemented a closed cooling circuit on the factory premises in Groß-Umstadt, which saves several thousand cubic meters of water every year.

“Currently, carbon footprints are a hot topic in terms of climate change,” explains Dr Michael Steimer. “But in the future, our water footprint will certainly play just as big a role.” This optimization in production processes at Resopal is also checked by TÜV Hessen audits.

Our products are food-safe, hygienic, antibacterial, and easy to clean with minimal use of cleaning agents - another way in which we protect the environment.

At the end of their useful life, most of our products can be thermally recycled and thus used to generate energy.

We are continuously improving our commitment to the environment by always working to optimize how we use resources. This is how we create sustainable and comfortable spaces - today and in the future.



# OUR EXPERTISE HEALTH, COMFORT AND THE ENVIRONMENT

## A MANUFACTURER COMMITTED TO THE ENVIRONMENT

As a manufacturer, Resopal has started an environment initiative to offer customers concise information about the environmental impact of our products.

### LIFECYCLE ANALYSIS

- Environmental product declaration\* available
- Production facility in Germany
- Long-lasting products (50 years)



### ENVIRONMENTALLY-FRIENDLY PRODUCTS

- Made from PEFC- or FSC®-certified wood upon request
- Standard HPL (0.6 mm - 1.0 mm) contains an average of 20% post-consumer recycled paper



### INDOOR AIR QUALITY

- Formaldehyde emissions: E1
- The product RESOPAL® BONDED BOARDS meets emissions requirements according to DE-UZ 76
- VOC :
  - Available emission test report for Indoor Air Comfort Gold for HPL, Spa-Styling, HPL Compact Classification A (test scenario wall)
  - Available emission test report for Indoor Air Comfort Gold for MFB Classification A+ (test scenario door)



### HEALTH ASPECTS

- Easy-care products with a non-porous surface and antibacterial effect\*\*
- RESOPAL HPL and compact panels contain no asbestos and no PCP (Pentachlorophenol) and are manufactured without the addition of substances such as chlorine and halogen. In addition, they meet the requirements of EU Directives 2011/65 RoHS 2 and 2015/863 RoHS 3 (restriction of the use of certain hazardous substances) and therefore contain no toxic compounds based on antimony, heavy metals, barium, cadmium, chromium III, chromium VI, lead, mercury or selenium.

### VISUAL ASPECTS

- Reflectance values available for all decors

### MAXIMAL TRANSPARENCY

- RESOPAL® HPL and Compact are listed on the DGNB Navigator platform.



### CERTIFIED MANAGEMENT SYSTEMS

- Quality management
- Environment management
- Energy management



\*ICDLI environmental product declarations (EPD) - \*\*See product data sheets



# AREAS OF APPLICATION



# AREAS OF APPLICATION

Our solutions for your facility

# TAILOR-MADE SOLUTIONS FOR AREAS OF ANY TYPE

Zone

**1**

## AREAS WITHOUT RISK OF INFECTION

### AREAS

Corridors, staircases, administrative offices, offices in general, classrooms, dining rooms, lounges, lecture rooms, technical areas.

**CLEANING** | Daily cleaning

### PRODUCTS

- Melamine-faced boards
- HPL
- HPL bonded boards
- Wet room elements
- Compact panels for indoor use
- Compact panels for outdoor use

Zone

**2**

## AREAS WITH POSSIBLE RISK

### AREAS

General wards, outpatient areas, maternity wards, radiology wards, physical therapy areas, sanitary facilities, dialysis wards, intensive care.

**CLEANING** | Daily cleaning and disinfection

### PRODUCTS

- Melamine-faced boards\*
- HPL
- HPL bonded boards
- Wet room elements
- Compact panels for interior use

Zone

**3**

## AREAS WITH PARTICULAR RISK

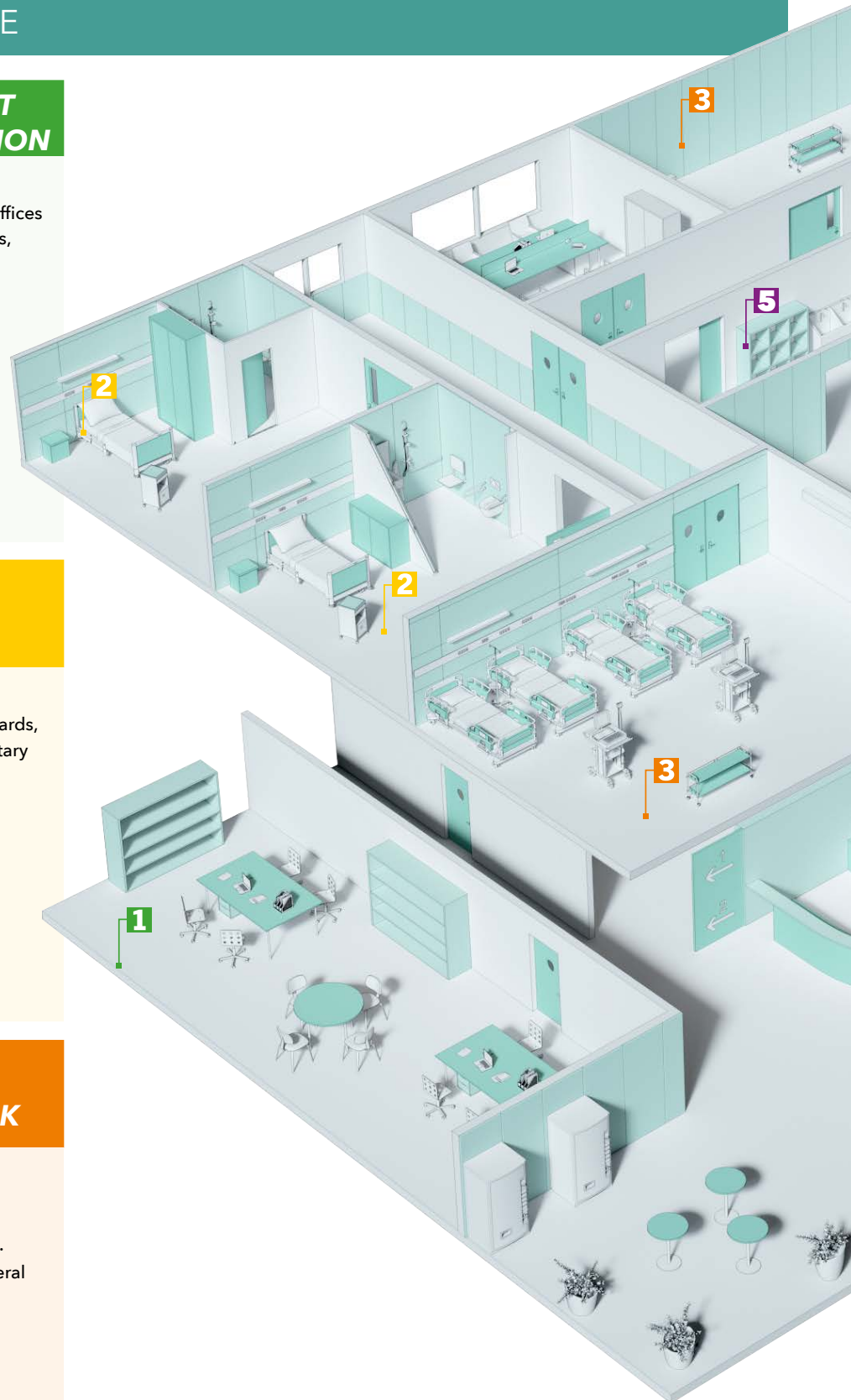
### AREAS

Operation wards, operating theatres, special intensive care, transplants, haematology-oncology, pre-term infant wards.

**CLEANING** | Clean and disinfect daily or several times a day

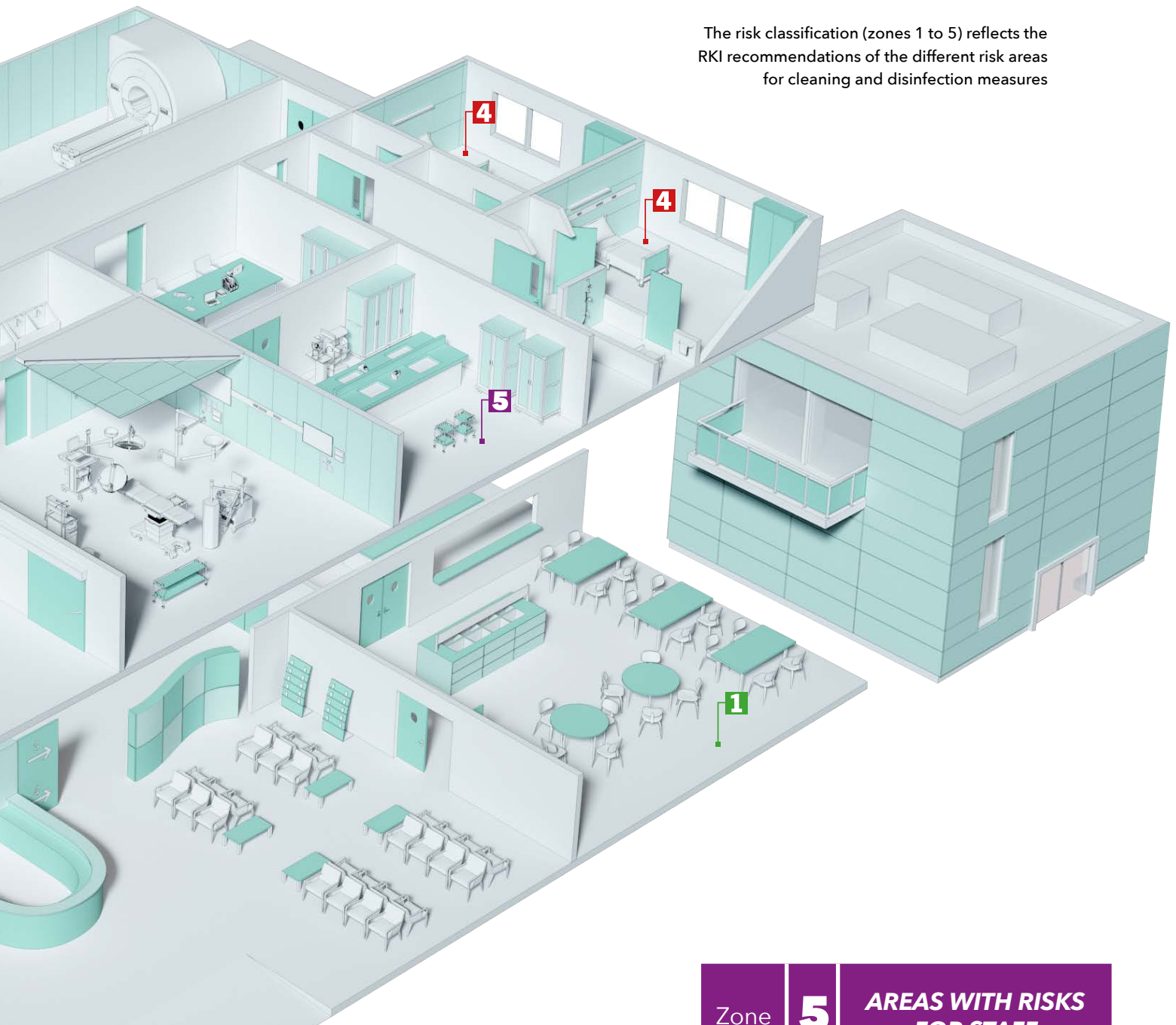
### PRODUCTS

- HPL
- HPL bonded boards
- Wet room elements
- Compact panels for interior use
- Compact panels for laboratories



\*Not for heavy-duty applications

The risk classification (zones 1 to 5) reflects the RKI recommendations of the different risk areas for cleaning and disinfection measures



Zone **4** **AREAS WITH PATHOGENIC RISK**

**AREAS**  
Isolation areas / isolation care wards where patients are treated.

**CLEANING** | Clean and disinfect daily or several times a day

**PRODUCTS**

- Melamine-faced boards\*
- HPL
- HPL bonded boards
- Compact panels for interior use

Zone **5** **AREAS WITH RISKS FOR STAFF**

**AREAS**  
Microbiology laboratories, pathology wards, waste disposal areas, non-sterile areas of laundries / functional units, CSSD.

**CLEANING** | Clean and disinfect daily or several times a day

**PRODUCTS**

- Melamine-faced boards\*
- HPL
- HPL bonded boards
- Compact panels for interior use
- Wet room elements
- Compact panels for laboratories

# TAILOR-MADE PRODUCTS FOR AREAS OF ANY TYPE

## RECEPTION

Zone **1**



## PATIENT ROOMS

Zone **2**







**OPERATING THEATRE**

Zone **3**



**HOSPITAL BATHROOM**

Zone **2**



# PRODUCTS & APPLICATIONS



# PRODUCTS & APPLICATIONS

Your needs, our products

# DISINFECTION AND DECONTAMINATION ANTIBACTERIAL PROTECTION AND DECONTAMINATION FOR YOUR NEEDS

## DISINFECTION: ANTIBACTERIAL PROTECTION

ALL OF OUR PRODUCTS ARE ANTIBACTERIALLY TREATED\*

In Europe, more than 2.5 million people contract hospital-acquired infections every year. Multi-resistant bacteria pose massive challenges for healthcare professionals. In addition to inspection methods and hygiene regulations, structural measures are also playing an increasingly important role in systematically addressing the problem. An important starting point is therefore the use of surfaces that prevent the spread of bacteria.

With RESOPAL Antibacterial, Resopal offers an antibacterial surface for HPL, direct-coated chipboard, and compact laminate panels, which provides additional protection wherever cleanliness alone is not enough: in hospitals, medical practices and laboratories, as well as in commercial kitchens or in sanitary facilities.

### INNOVATION IN HEALTHCARE APPLICATIONS

We offer innovative products with a silver ion-based antibacterial effect available at no additional cost.

- Food-safe
- Antibacterial effect without danger to humans or the environment
- No nanoparticles
- Lasting protection
- Preserves aesthetics and technical performance

### EFFECTIVENESS

- 99.9% of tested bacteria killed within 24 hours
- Tested according to JIS Z 2801 and ISO 22196
- Expert opinion of the research and investigation company ISEGA

### ACTIVE INGREDIENTS INTEGRATED INTO THE MATERIAL

- Active protective layer made of silver ions\*\*
- The additive is integrated into the surface to ensure antibacterial protection throughout the product's lifecycle
- This does not affect the technical and aesthetic performance of our HPL and compact products
- The silver ions block the process of cell division, thereby reducing the growth of bacteria
- This treatment is a non-migratory inorganic solution that does not change over time

### EFFECTIVENESS TESTED ON 7 BACTERIA

- Escherichia coli
- Klebsiella pneumoniae
- Listeria monocytogenes
- Pseudomonas aeruginosa
- Salmonella enterica
- Staphylococcus aureus
- Staphylococcus aureus (MRSA)

\*The Traceless Premium surface texture and Durcon®-SPC-Chemical range are antibacterial and therefore do not need any additional treatment. The RESOPLAN range and TS/TL surface textures are not antibacterially treated.

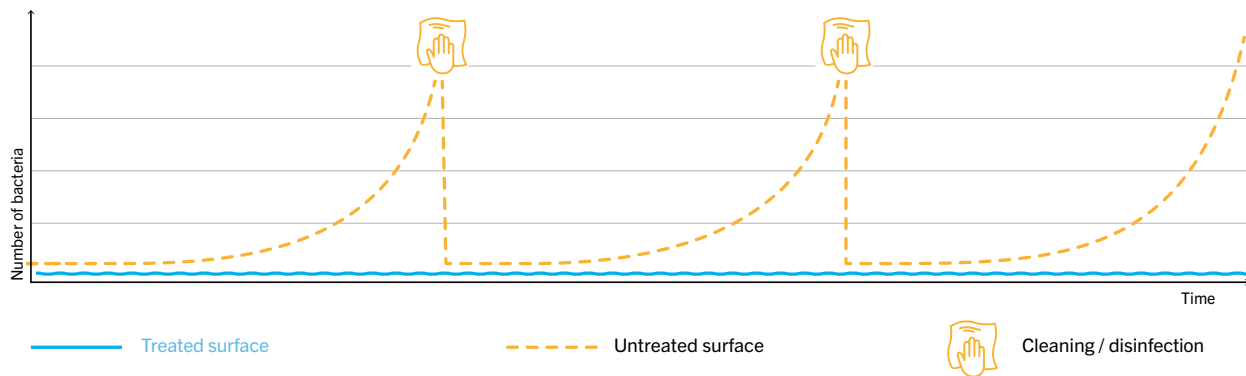
\*\*Fulfils requirements for biocidal products (EU 528 / 2012) and for chemical substances according to REACH.



**CUSTOMIZED PROTECTION FOR YOUR HEALTHCARE FACILITIES**

- Complements cleaning and disinfection procedures.
- Complements surface cleanliness by reducing bacteria. Supports general hygiene management.
- Resistant to disinfectants and medical products pursuant to the "Resistant to disinfectants RESOPAL surfaces" data sheet.

**CLEANING CYCLES**

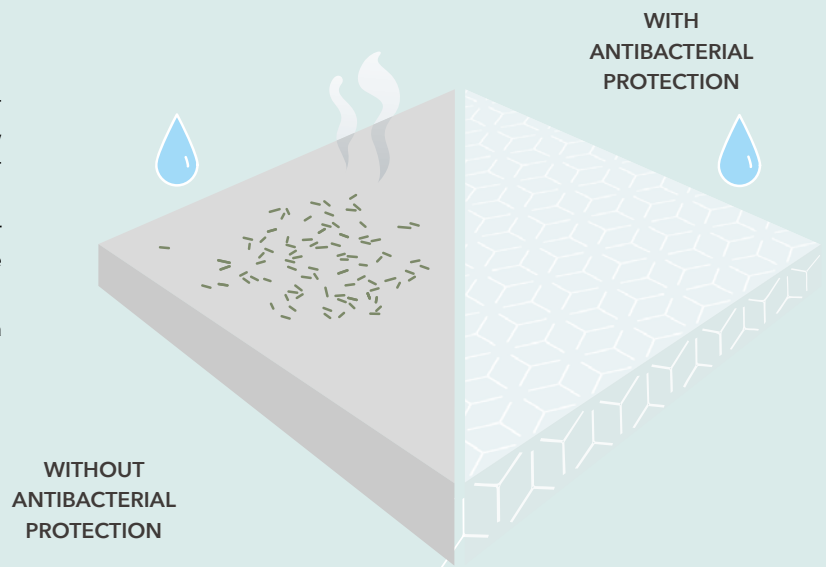


**HOW DOES IT WORK?**

RESOPAL Antibacterial has active ingredients (silver phosphate glass) dissolved in melamine resin, with which the decorative top layer of the laminate is saturated.

As soon as the surface encounters moisture, silver ions (Ag+) encapsulated in small glass beads are activated.

These silver ions reduce the number of bacteria and prevent further cell division.



**DECONTAMINATION: CLEANING OF RADIOACTIVE MATERIALS**

Decontamination is the cleaning of surfaces that have come into contact with radioactive substances in laboratories, hospitals and medical practices.

The ability to be decontaminated is an important selection criterion for materials where surfaces must be able to be cleaned of contaminants quickly and, if possible, without damage to the surface.

Contaminating radioactive substances must only be able to be absorbed by the material surface to a small extent, and it must be possible to remove them again as quickly and easily as possible.

RESOPAL HPL and RESOPAL HPL Compact have been tested according to DIN 25415 with excellent results and are "very easy to decontaminate" simply using water

# VERSATILE PRODUCTS

## INTERIOR USE

### HPL

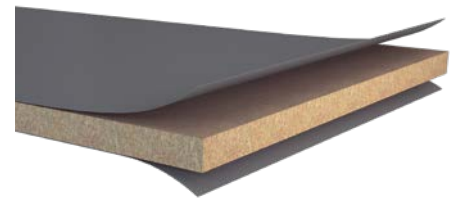
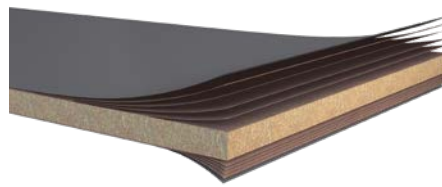
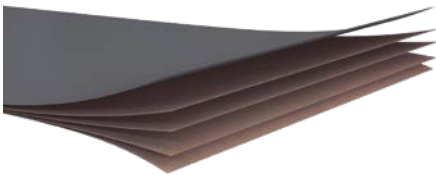
RESOPAL® HPL  
 RESOPAL® HPL Colour  
 RESOPAL® Pure White  
 RESOPAL® Real Metal  
 RESOPAL® Magnetic  
 Motiv in RESOPAL®

### HPL BONDED BOARDS

RESOPAL® Bonded Boards

### MELAMINE-FACED BOARDS

RESOPAL® MFB



**DURABLE, LONG-LASTING AND HYGIENIC**  
 HPL to apply to various substrates

**SERVICE AND EFFICIENT**  
 Easy to machine, panels come ready to use

**DECORATIVE AND COST-EFFECTIVE**  
 Easy to machine, panels come ready to use

Top properties



Abrasion-resistant



Easy to clean



Abrasion-resistant



Easy to clean



Easy to machine



Easy to clean



Impact-resistant



Resistant to certain substances & reagents



Impact-resistant



Resistant to certain substances & reagents

The four highlighted properties refer to the RESOPAL HPL product category.

\* Find out more details about resistance to chemical products at [www.resopal.de](http://www.resopal.de)

**EXTERIOR USE**

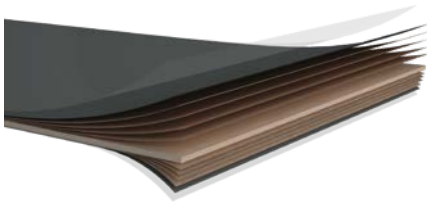
**WET ROOM ELEMENTS**

RESOPAL SpaStyling® Boards  
 RESOPAL SpaStyling® Shower Elements  
 RESOPAL SpaStyling® Floor

**COMPACT PANELS**

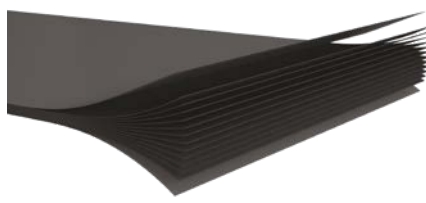
RESOPAL® Compact  
 RESOPAL® Unity Compact  
 RESOPAL® Pure White Compact  
 Motiv in RESOPAL®  
 Durcon® SPC

RESOPLAN®  
 Motiv in RESOPLAN®  
 RESOPAL® X-Line



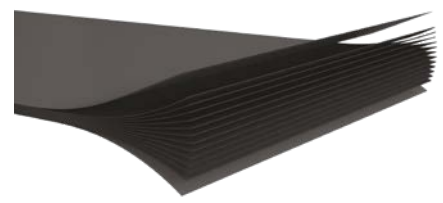
**HOLISTIC SOLUTION**

100% waterproof



**THICK, VERSATILE MATERIAL**

Thick HPL panels, untreated edges,  
 free-standing if  $\geq 6$  mm



**WEATHERPROOF**

Thick, weatherproof, UV-resistant HPL panels,  
 moisture-resistant

Top properties



Moisture-resistant



Abrasion-resistant



Moisture-resistant



Easy to clean



High UV resistance



Weatherproof



Easy to clean



Impact-resistant



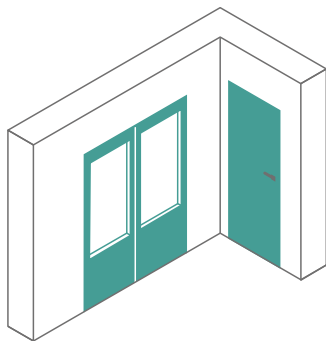
Resistant to chemical  
 substances\*



Fire-resistant

# TAILOR-MADE SOLUTIONS FOR VARIOUS APPLICATIONS

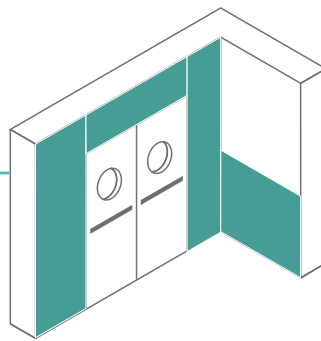
## DOORS



**Standard doors, floor-to-ceiling doors, extra-wide doors, ...**

HPL

## WALL CLADDING



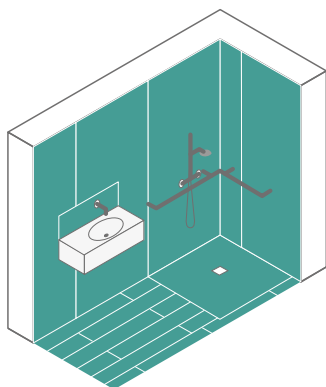
**Wall cladding, wall protection, skirting boards, partition walls, privacy screens, ...**

HPL

HPL bonded boards

Compact panels for interior applications

## WET ROOMS

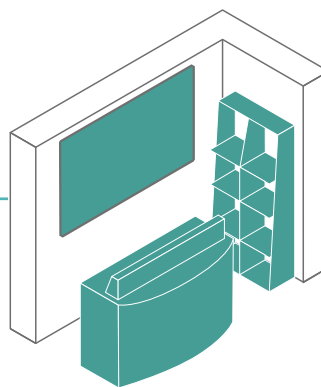


**Wall cladding, floors, shower tray**

Wet room elements

Compact panels for interior applications

## GENERAL AREAS



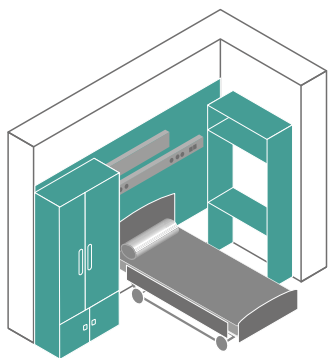
**Reception, desks, shelves, tabletops, consoles, ...**

Melamine-faced boards

HPL bonded boards

Compact panels for interior applications

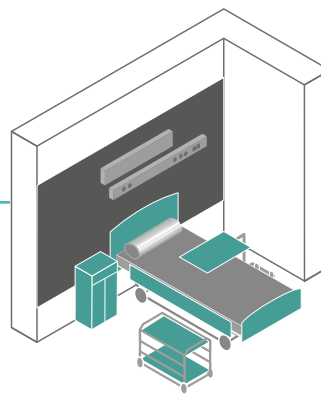
**FURNISHING OF PATIENT ROOMS**



**Headboards, shelves, cabinet doors, tables, bathroom countertops ...**

Melamine-faced boards\*  
HPL bonded boards  
Compact panels for interior applications

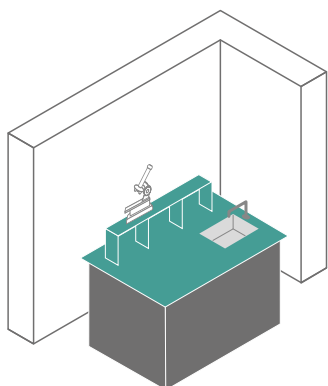
**SPECIAL FURNITURE**



**Care beds, nightstands, bed tables, carts**

Compact panels for interior applications

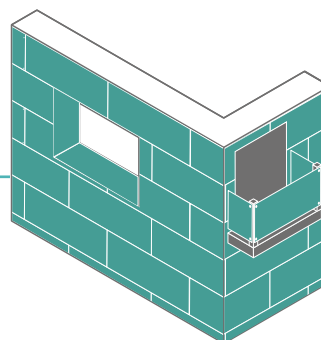
**LABORATORY FURNITURE**



**Laboratory worktops, shelves, furniture, ...**

Compact panels for laboratories

**EXTERIOR APPLICATIONS**



**Facades, sun protection, balconies, embrasures, window shutters, ...**

Compact panels for exterior applications

\*Not suitable for heavily-used applications



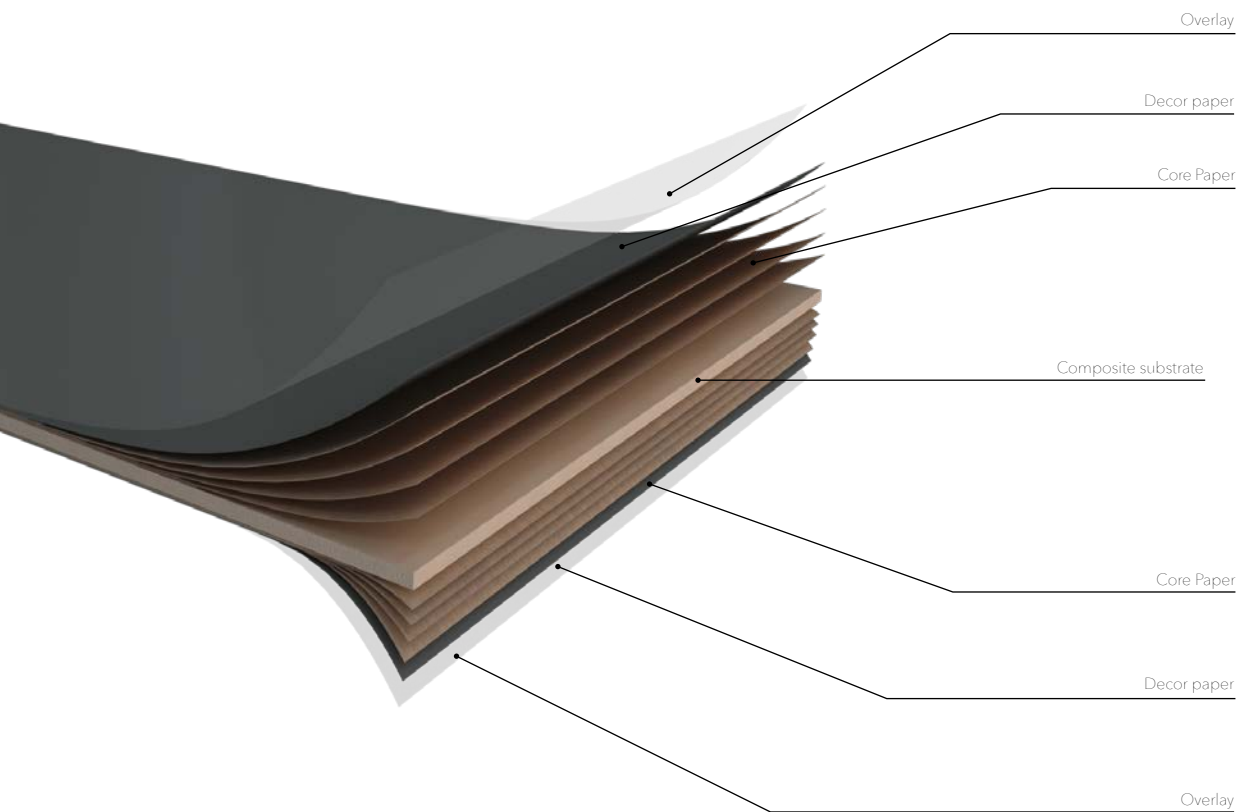
# RESOPAL SPASTYLING®

## A PRACTICAL SYSTEM FOR WET ROOMS

### RESOPAL SPASTYLING® BOARD

The RESOPAL SpaStyling Board solution for wall cladding in newly built or renovated wet rooms, CSSD, washbasin splash protection, commercial- and other kitchens. They can be used as a replacement for tiles or applied over existing tiles.

They can also be laid directly onto moisture-resistant gypsum plasterboard if it has been prepared in accordance with DIN 18534. RESOPAL SpaStyling Boards retain their aesthetic and technical performance characteristics over long periods of time



## PROPERTIES



### DESIGN

- Large-format panels
- Jointless
- Coordinated decor/surface combinations



### INSTALLATION

- Light boards
- Fast, clean machining with regular woodworking machinery
- On-site to avoid long down-times



### DURABILITY

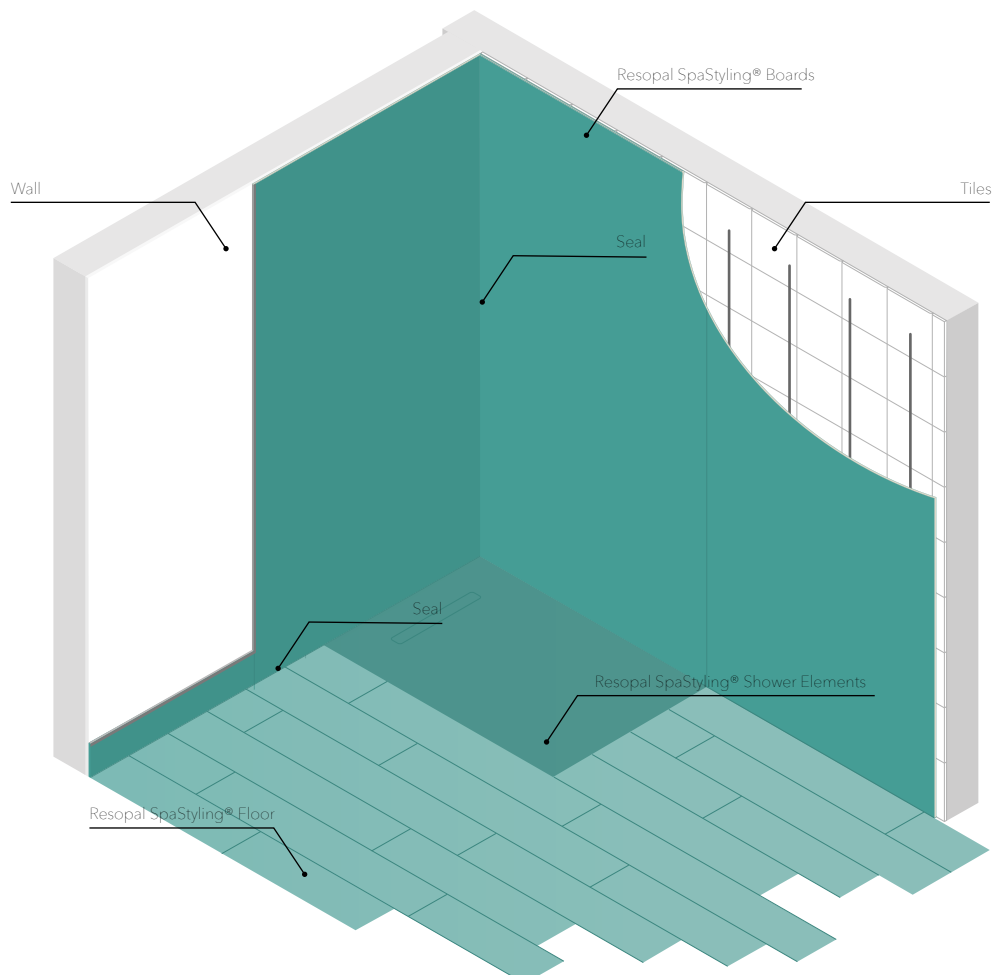
- Durable surfaces
- Resistant to scratches and impact
- Stain-resistant
- Lightfast



### HYGIENE

- Hygienic, pore-free surface
- Easy to clean
- Antibacterial effect

## COMPLETE SOLUTIONS FOR WET ROOMS



### COMPLEMENTARY DESIGN

All decors in the RESOPAL SpaStyling range are also available as HPL, HPL bonded boards, and compact panels for interior applications. Would you like to use your own corporate design? Thanks to our Motiv in RESOPAL solution, we can apply your organization's design to all the product categories named above.

### SURFACES FOR HEALTHCARE FACILITIES

The surface of RESOPAL SpaStyling Boards consists of high-pressure laminate (HPL) - a versatile, durable surface suitable for heavily-used areas. Walls that are paneled extensively with this covering have few joints, which leaves little room for dirt to collect, making this easy-care surface especially efficient to clean. It is resistant to disinfectants and medical products according to the "Resistant to disinfectants RESOPAL surfaces" data sheet.

The surfaces of RESOPAL SpaStyling Boards are treated with an agent that reduces the growth of bacteria. The silver ions integrated into the material do not pose any danger to humans or the environment, and therefore supplement cleaning and disinfection protocols.

# RESOPAL SPASTYLING®

## A PRACTICAL SYSTEM FOR YOUR WET ROOMS

### CLEAN INSTALLATION, LOW DOWNTIME



At 7.8 mm thick, RESOPAL SpaStyling Boards are a lightweight, excellent solution for new and renovated wet rooms. They can be installed on-site in very clean conditions with minimal downtime.

Dust and dirt are significantly lower compared to ceramic tiles and no water is required, greatly reducing the time spent on drying.

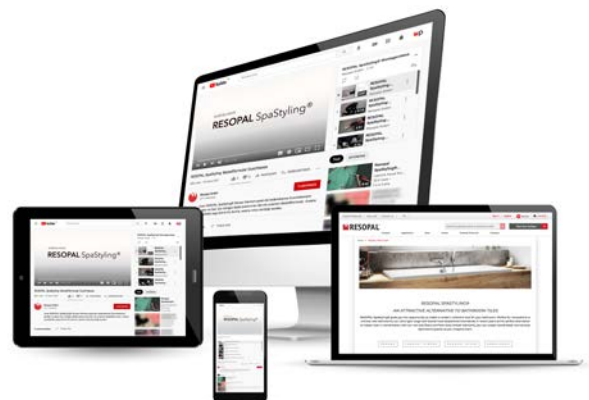
RESOPAL SpaStyling Boards can be installed in one go. The wet room is ready for use just 24 hours after installation.

### HOW IS A RESOPAL SPASTYLING® BOARD INSTALLED?



RESOPAL SpaStyling Boards can be treated and machined with standard tools directly on site, just like standard wood materials. The RESOPAL SpaStyling Board can be adhered directly to existing tiles or other substrates in new construction and renovation projects. The quick, easy and clean installation ensures little dirt and little downtime.

All assembly information is clearly explained in detailed assembly videos.



Installation video available at [www.resopal.de](http://www.resopal.de)



## RESOPAL SPASTYLING® BOARDS - 2 INSTALLATION OPTIONS

### WITHOUT ALUMINIUM PROFILE

- For continuous surfaces, several RESOPAL SpaStyling Boards can be connected with a milled groove and loose tongue so that only a hairline gap remains between the individual elements.
- Once all RESOPAL SpaStyling Boards have been affixed, all expansion joints must be sealed with silicone compound.

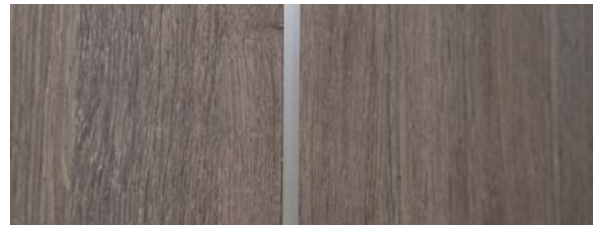
Resopal offers suitable wall adhesive, as well as corresponding connection adhesive.



### ALUMINIUM PROFILE

- Connecting profile (H-bar) to connect two RESOPAL SpaStyling Boards.
- End profile (L-bar) for edging narrow surfaces.
- Corner profiles for inner and outer corners.
- Once all RESOPAL SpaStyling Boards have been affixed, all expansion joints must be sealed with silicone compound.

Resopal offers suitable wall adhesive, as well as corresponding connection adhesive.



## RESOPAL SPASTYLING®, A MODULAR SYSTEM



### RESOPAL SPASTYLING® SHOWER ELEMENTS

Our shower tray allows barrier-free access to the shower.

The edge of the shower tray is level with the floor. The drain grate in matching decor meets the highest standards of functionality and design.

The built-in gradient ensures that shower water runs off quickly.

RESOPAL SpaStyling Shower Elements are available in various dimensions depending on your requirements: max. 1,200×2,000 mm

### RESOPAL SPASTYLING® FLOOR

Our flooring is made from an impact-resistant, water-resistant compact material. Its non-slip surface makes for pleasant barefoot walking.

Floorboards can be laid almost seamlessly and create a smooth transition to wall elements and the shower tray in the same decor.

Board dimensions: 1,245×200×5.4 mm.







# DECORS & INSPIRATION

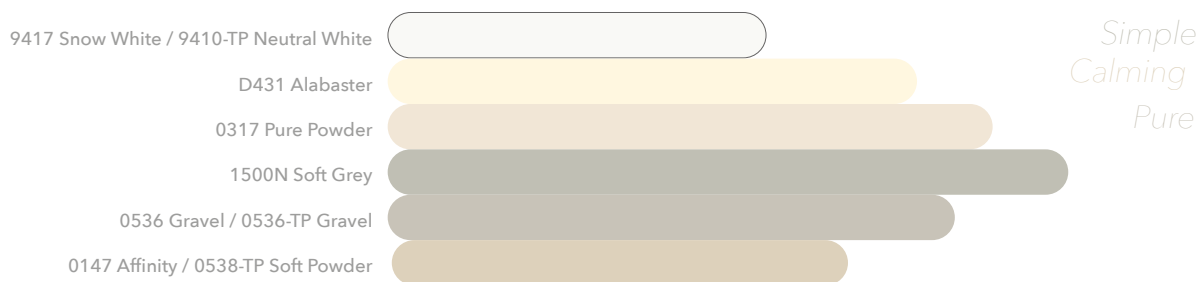


# DECORS & INSPIRATION

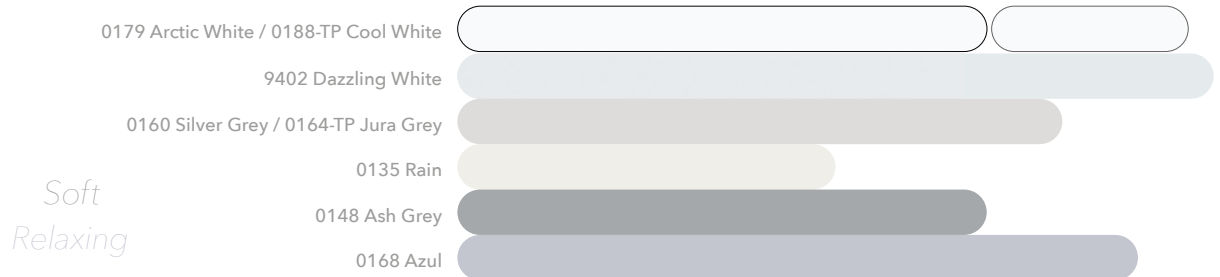
Color as therapy

# COLOR AND DECOR AS AN ASPECT OF THERAPY

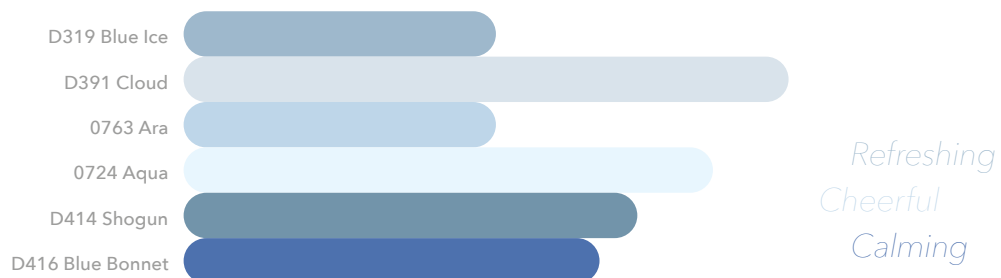
## WARM GRAYS



## COOL GRAYS



## BLUE

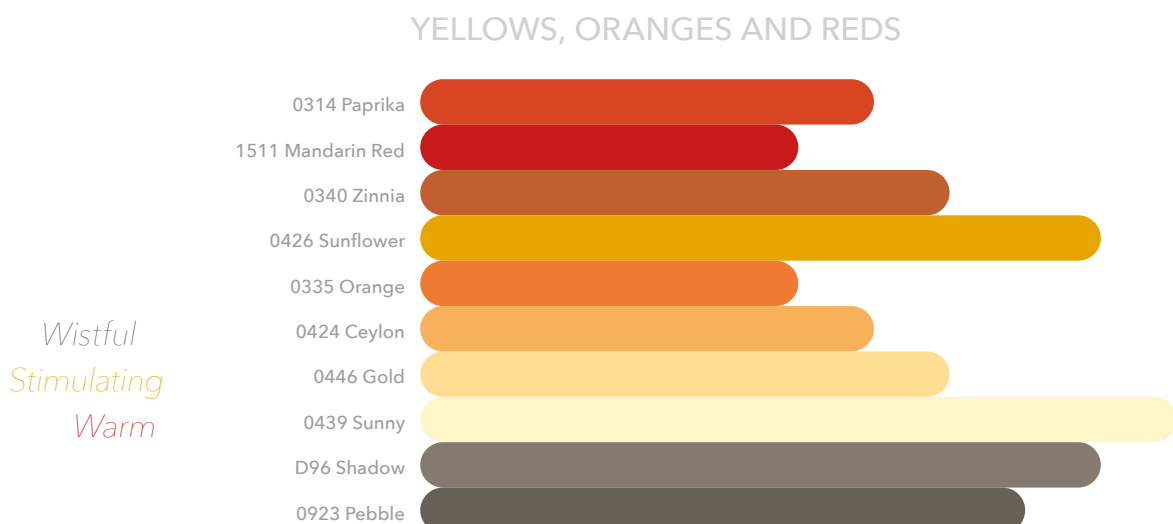
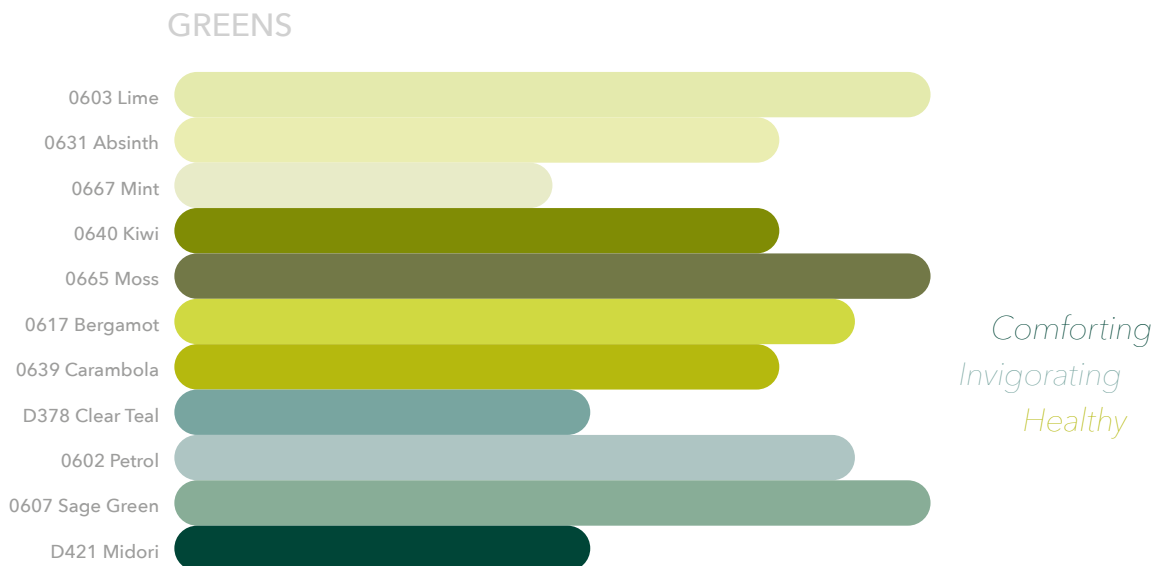


A physical space actively contributes to a patient’s treatment and is itself a medical tool. The architecture, equipment and appropriate decor contribute to the well-being of patients, caregivers and visitors alike.

Our range of RESOPAL decors meets the needs of the individual aspects of a healthcare facility and thus increases the therapeutic potential of the building itself.

Color and decor provide visual comfort. As part of a facility’s signage, they assist with the perception and recognition of spaces, and make walking routes easier to navigate.

Plus, they let light, nature and the feeling of fresh air into the building - all essential elements of creating a sense of well-being in any enclosed space.



# CLEAN & CLEAR COLOR CONCEPT

- ENTRANCE
- PATIENT ROOMS
- WAITING AREA
- RESTAURANT
- TREATMENT ROOMS, SURGERY

| REFRESHING | CALMING | CONFIDENT | POSITIVE | RELAXING |



# RELAXING & CALMING COLOR CONCEPT

DECORS & INSPIRATION

ENTRANCE

WAITING AREA

ROOMS

PUBLIC AREAS

| CALMING | NATURAL | AUTHENTIC | SOOTHING | INVITING | CONSCIOUS |

4076 Essential Oak

D431 Alabaster

4081 Glen Oak

0317 Pure Powder

BO0A  
Bocage Beige

1500N Soft Grey

0639 Carambola

0607 Sage Green

S10D Signal Sand



# INVITING, OPEN & FRIENDLY COLOR CONCEPT

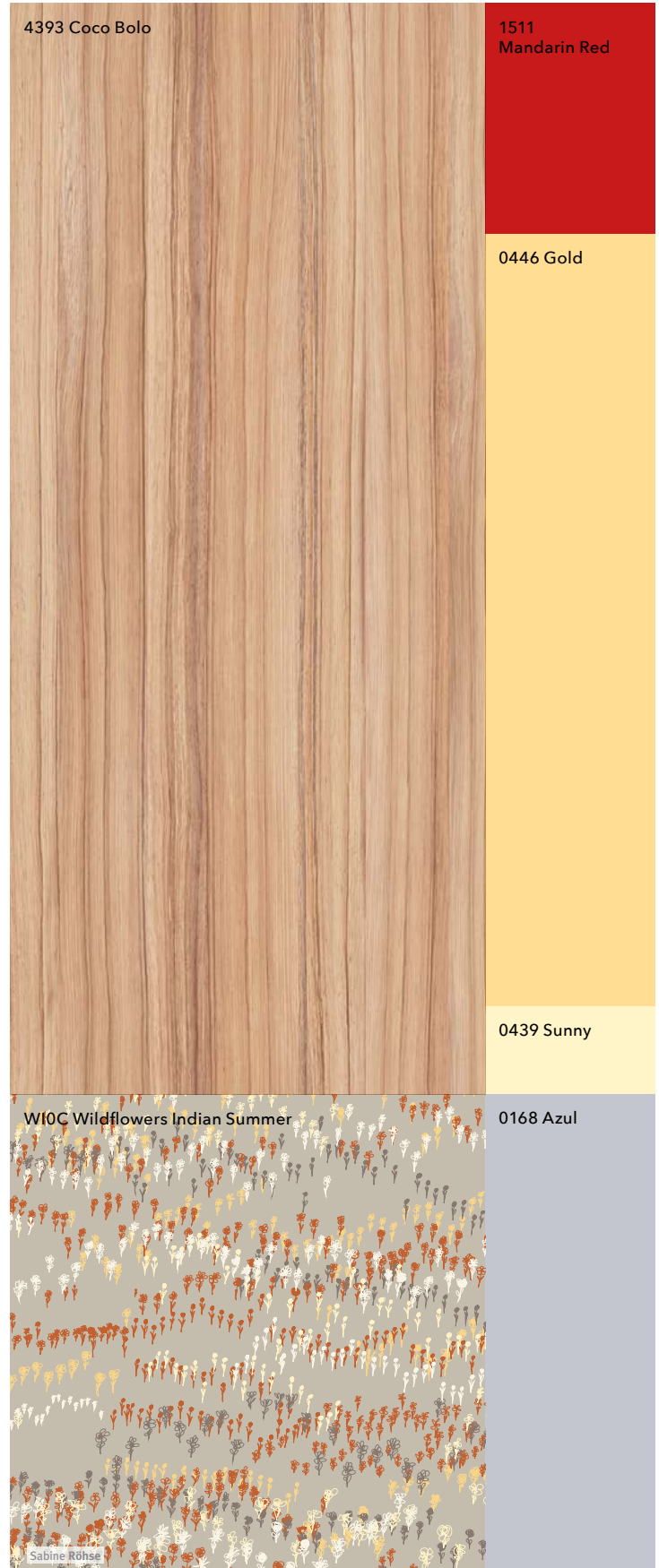
ENTRANCE

WAITING AREA

PUBLIC AREAS

PAEDIATRIC

| INVITING | FRIENDLY | CHEERFUL | OPEN | INVIGORATING | SOOTHING | STIMULATING |



# COZY & SAFE COLOR CONCEPT

## DECORS & INSPIRATION

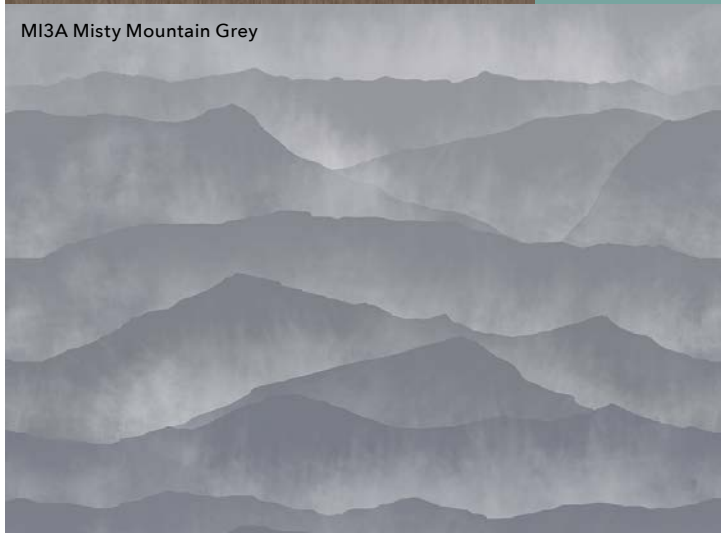
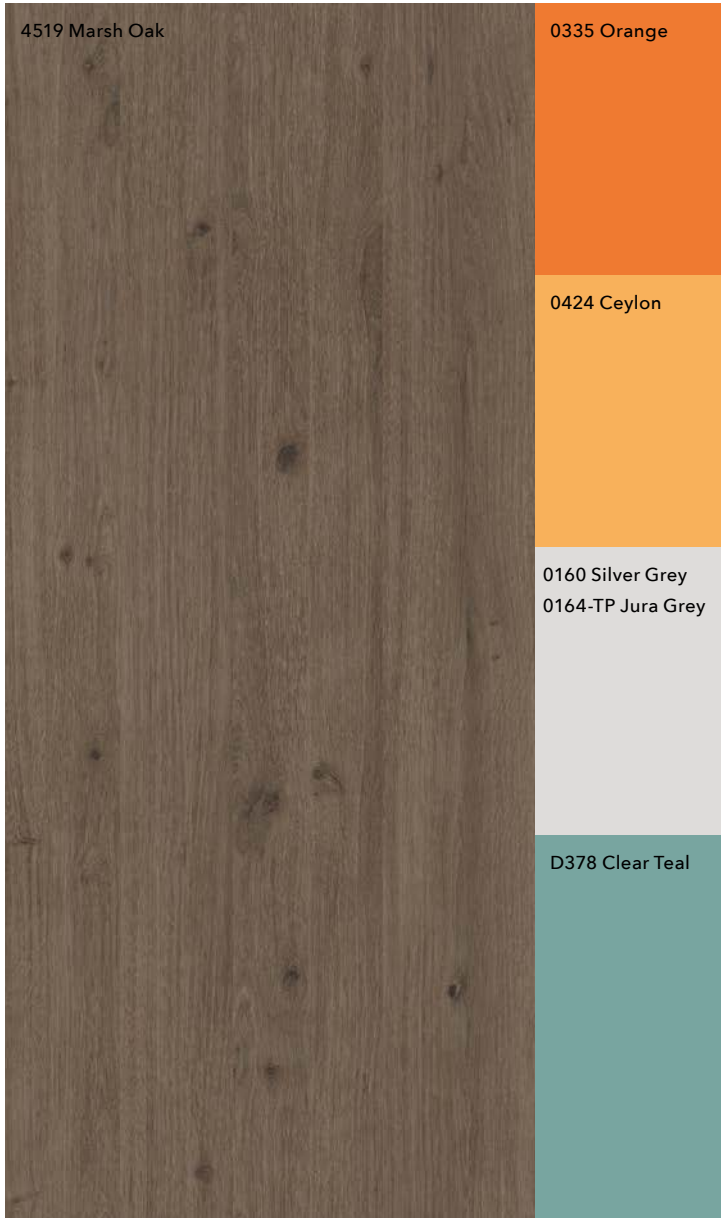
ENTRANCE

WAITING AREA

ROOMS

PUBLIC AREAS

| COZY | SAFE | HARMONIOUS | COMFORTING | SOOTHING |



# DECORATIVE STRENGTHS OF RESOPAL® FOR THE FURNISHING OF YOUR ROOMS

## MORE THAN 300 DECORS

Our extensive range allows you to create exactly the atmosphere you desire for your projects.

The RESOPAL Collection includes more than 300 versatile and practical decors, including solid colors, wood grain and stone looks. Choose from more than 15 surface textures to give the decor its finishing touch.

## A LARGE SELECTION OF SURFACE TEXTURES

The RESOPAL Collection features a wide range of surface textures.

For heavily used surfaces, we recommend a durable, smooth texture (60), and for surfaces with less wear and tear, we suggest a structured texture.

All of our surfaces are suitable for healthcare facilities and are resistant to cleaning agents in accordance with current product standards.

Our entire range of decors and surfaces can be found in our collection.



Fine Pearl

**60**

*Matte, a must-have*

Wooden Heart

**WH**

*Soothing, silky-smooth effect*

Elegant Matt

**EM**

*Creates soft colors*



**DECORATIVE COMPLEMENTARITY**

The RESOPAL selection is characterized by the perfect complementarity of its products. Melamine-faced boards, HPL and HPL compact panels are available in matching decorative combinations.

Create a smooth effect between doors and partition walls, or coherent spaces for activity and relaxation areas.

Our experts are happy to help you choose the decors that will best suit your space.

**LIGHTING & DAYLIGHT FACTOR**

Light reflectance values (LRV) are available for every decor and vary between 4% for the darkest decor and 86% for the lightest.

This information can be used to best match the requirements of a given space.

**Traceless Premium****TP**

*Creates soft colors  
Anti-fingerprint protection*

**Elegant Wood****EW**

*Soothing, silky-soft effect*

**Grainy Pearl****90**

*Grainy and velvety*



# DECORATIVE STRENGTHS OF RESOPAL® FOR DESIGNING YOUR SPACES

## HUMANIZING, LABELING & PERSONALIZING SPACES

### WE MAKE YOUR DESIGNS A REALITY WITH MOTIV IN RESOPAL®

Create your own design, bring your customized project to life, and benefit from the advantages of HPL.

High-resolution printing of photos, graphic designs, drawings, information and much more. Apply your design to doors and

wall paneling (also in wet rooms) with various decors and frescoes.

Appropriate signage improves and facilitates orientation and navigation between rooms.



A WIDE RANGE OF DECORS AVAILABLE AT THE TOUCH OF A BUTTON

We have hundreds of designs with ready-to-use colour palettes to bring your project to life. With our classic decors, just as with a Motiv in RESOPAL project, you will benefit from the advantages of

laminates - its durability, ease of cleaning, antibacterial qualities, and much more.



a	MO2A	Modern Chevron Natural	f	RA1C	Radius Grey
b	CO1C	Construct Gold	g	MU0A	Musa Green
c	AR4A	Artisan Vessel	h	MI3A	Misty Mountain Grey
d	BR0A	Brumel Grey	i	MA2B	Marquetry Natural
e	PA1A	Papyrus Pulp			

Due to printing, there may be deviations in colors shown in the brochure and the actual product. We therefore recommend ordering a physical sample.



# DECISION SUPPORT

# DECISION SUPPORT

Your projects, our solutions



# OUR SOLUTIONS

## MEETING YOUR NEEDS

### OUR SERVICE OFFERS

#### ALWAYS AT YOUR SIDE

We offer support throughout every phase of your project.

Support that saves you time: BIM models, express sample delivery, certificates, processing instructions, cleaning and care instructions, and much more.

#### PROJECT CONSULTATION

Our highly qualified teams are happy to meet your needs and offer consultation from the design phase through to project completion.

#### HEALTH, COMFORT AND ENVIRONMENTAL EXPERTISE

We provide you with all the necessary data sheets, test reports and certificates for disinfection, decontamination, surface gloss, chemical resistance, etc.

### PRODUCTS

#### HIGH-QUALITY PRODUCTS

- High impact-resistance, fire performance: up to Euroclass B-s1, d0
- Resistant to disinfectants and decontamination procedures
- Chemical resistance to more than 100 cleaning agents

#### VERSATILE APPLICATIONS

- Moderate to heavy use depending on product
- Doors, wall paneling (including wet rooms), furniture, special- and laboratory furniture, exterior facades and much more

#### ANTIBACTERIAL PROTECTION

- Antibacterial protection complements cleaning and disinfection protocols
- 99.9% of bacteria are destroyed within 24 hours

## DESIGN

### BRING SPACES TO LIFE WITH COORDINATED DESIGNS

- More than 300 design combinations including solid colors, wood grain and stone decors
- Color-matched doors, wall paneling (also in wet rooms) and furniture possible
- More than 15 available surface textures that can be tailored to every space
- Enables good daylight values

### RESOPAL® CREATIVE SELECTION

- Over 220 additional designs that offer completely new possibilities thanks to the advantages of laminate and compact panels
- Graphic designs, wood grain and stone decors serve as inspiration for your design

### CUSTOMIZE SPACES

- We produce your custom creations
- Take advantage of highly resistant HPL and compact panels
- Available for most applications: doors, wall paneling (including for wet rooms), exterior facades...



# DECISION SUPPORT

## MEETING YOUR NEEDS

PRODUCT	APPLICATION	PROPERTIES							
		Impact resistance*	Abrasion resistance	Scratch resistance**	Susceptibility to cracks	Resistance to chemical substances	Resistance to damp heat	Fire behavior***	Resistance to dry heat
HPL	Doors, wall paneling, compartments and lockers, furnishing of common areas, patient rooms, special furniture								
COMPACT PANELS FOR INTERIOR USE	Doors, wall paneling, compartments and lockers, furnishing of common areas, patient rooms, special furniture								
COMPACT PANELS FOR LABORATORIES	Laboratory worktops, laboratory shelves, laboratory furniture								
MELAMINE-FACED BOARDS	Wall paneling, furnishing of common areas, patient rooms, special furniture								
COMPACT PANELS FOR EXTERIOR USE	Wall paneling, sun protection, balconies, embrasures, window shutters								
RESOPAL SPASTYLING® BOARDS FOR WET ROOMS	Wall paneling								
HPL BONDED BOARDS	Composite elements, wall paneling, furnishing of common areas, patient rooms, special furniture								

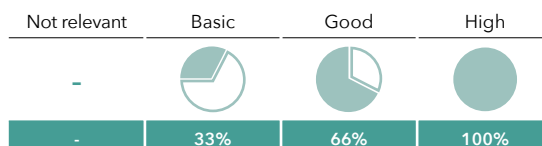
\* HPL, RESOPAL SpaStyling® Boards, bonded boards: dependent on substrate material and/or thickness of HPL

\*\* Dependent on surface

\*\*\* Dependent on product category

				HYGIENE						DECORATIVE SELECTION		
	Steam Resistance	Light fastness (indoor application)	Exterior application	Antibacterial	Stain resistance	Radioactive decontamination	Cleaning and disinfection	Food-safe **	Formaldehyde - emissions	Decors	Surfaces	Personalization
			-									
			-									
			-	-		-		NO				-
	NOT TESTED		-			-						-
	-	-		-	-	-	-	-	-			
			-									
			-									

Discover more application examples at [www.resopal.de](http://www.resopal.de) under "Inspiration".





# REFERENCE PROJECTS



# REFERENCE PROJECTS

In the healthcare sector

# IKE TECHNISCHE UNIVERSITÄT | BRAUNSCHWEIG

## KARMIN RESEARCH PROJECT | PATIENT ROOM OF THE FUTURE



Wall protection, compact panel, D475-60 / 0135-60 | Cabinet, HPL bonded board, 0536-TP / 9410-TP | Door, HPL, D475-60 / 4069-60  
| Bed & nightstand, Compact panel, 4144-60



TU Braunschweig, Institut für konstruktives Entwerfen und Industrie und Gesundheitsbau









# PARACELSUS KLINIK | BREMEN

## CONSTRUCTION OF A SPORTS MEDICINE CENTRE IN THE WESERSTADION















## SAUERLANDKLINIK | SUNDERN-HACHEN REFURBISHMENT OF CARE STATIONS



 Cabinets, HPL bonded boards, 9417-60 | Wall behind bed, HPL bonded boards, Motiv | Shelves, HPL bonded boards, 3514-RM

 weicken architekten partmbB | Unna





SAUERLANDKLINIK | SUNDERN-HACHEN





**ST. AUGUSTINUS-FACHKLINIKEN | NEUSS**  
NEW ST. AUGUSTINUS MEMORY CENTER



 Furniture / wall paneling, HPL bonded boards, 4073-EM / D91-AJ / 9417-60

 ecf Architekten | Aachen









ST. AUGUSTINUS-FACHKLINIKEN | NEUSS

Ergo





# PFLEGEHEIM HEIDEHOF | HATTINGEN

## NEW LONG-TERM AND SHORT-TERM CARE FACILITY



 Facade, compact panels for exterior use; alternative from the current collection P04428

 Stiller Architekten | Hattingen







 Facade, compact panels for exterior use, P00300 Infinity; alternative from the current collection P00767 / P0949

 Stiller Architekten | Hättingen







# LWL KLINIK | DORTMUND

## NEW CLINIC BUILDINGS AND KITCHEN BUILDING



 Shelf / table, HPL bonded boards, 4165-60 | Nightstand, compact panels, 4165-60 | Window frame, HPL bonded boards, 9417-60

 kadawittfeld architekten | Aachen / Atelier Thomas Pücherg | Graz







Shelves / tables / benches, HPL bonded boards, 4165-60 | Floor, HPL bonded boards, 4165-60 increased resistance to abrasion  
| Ceiling elements, HPL bonded boards, perforated 4165-60



kadawittfeld architekten | Aachen / Atelier Thomas Pücherg | Graz







# GLANTAL KINIK | MEISENHEIM NEW HEALTH CENTER





The entire building project is DGNB Gold certified.

 PHW Plauener Holzwerkstätten GmbH | Plauen / Rüb Innenausbau Schreinerwerkstätte GmbH | Nickenich / Schyns Medizintechnik GmbH | Bad Ems

 ©Markus Bachmann



Locking cabinets / cabinets, HPL bonded boards, 9417-60 | Wall behind bed, HP bonded boards, 9417-60  
| Doors, HPL, 9417-60 / 9501-60



Sander.Hofrichter architekten GmbH | Ludwigshafen





## KNAPPSCHAFTS-KLINIK | BAD DRIBURG REFURBISHMENT OF REHABILITATION CLINIC













**KLINIKUM | GÜTERSLOH**  
**NEW MATERNITY CLINIC**



 Wall and ceiling paneling, compact panels Motiv | Cabinets, HPL bonded boards, 0670-60

 HDR GmbH | Düsseldorf













# ST. MARIENHOSPITAL | VECHTA RENOVATION AND EXPANSION OF CHILDREN'S CLINIC



 Furniture / shelves / bed, HPL bonded boards, 4081-60 / 9417-60

 architekten t+p | Braunschweig











# EVANGELISCHES KRANKENHAUS | CASTROP-RAUXEL NEW SURGERY WARD



 Operating theatre wall paneling, compact panels, 9417-60 / 0634-60 / 0618-60 / 0631-60

 Architekten BDA RDS Partner | Hattingen







**EVANGELISCHES KRANKENHAUS | CASTROP-RAUXEL**









**LVR KLINIKUM | DÜSSELDORF**  
NEW DIAGNOSTIC-, THERAPY- AND RESEARCH CENTER



 Facade, compact panels for exterior use, P00135 / P00D92 / P00160 / P00D90

 Architekten BDA RDS Partner | Hattingen







Cabinets, HPL bonded boards, 9417-60 / 9417-WG | Shelves / windowsill frames, HPL bonded boards, 0426-60 | Wall behind bed, HPL bonded boards, 9417-60 | Table, HPL bonded boards, 9417-60 | Desk, HPL bonded boards, 1500N-60 | Doors, HPL, 9417-60 / 9501-60 | Facade, compact panels for exterior use, P00340



Architekten BDA RDS Partner | Hattingen







# ST. MARIEN HOSPITAL | HAMM NEW WARD



Wall paneling, HPL bonded boards, Motiv | Cabinet, HPL bonded boards, 1500N-TL / D90-TL | Desk, HPL bonded boards, 1500N-60  
| Wall protection, HPL bonded boards, 0105-TL / 1500N-TL / D90-TL | Care bed & nightstand, compact panels, 9417-60

 weicken architekten partmbB | Unna



# ST. MARIEN HOSPITAL | HAMM



Room divider, HPL bonded boards, 4102-TL | Kitchenette unit, HPL bonded boards, 0105-TL / 0105-60/1500N-60 | Table, HPL bonded boards, 0105-60  
| Bathroom, compact panels, 3533-60/0105-60 | Doors, HPL, 9417-60



weicken architekten partmbB | Unna





# KLINIK DRV WESTFALEN | NORDERNEY

## RENOVATION OF PATIENT BATHROOMS











## AGAPLESION MARKUS KRANKENHAUS | FRANKFURT RENOVATION OF ROOMS FOR PRIVATELY-INSURED PATIENTS



 Wall paneling, SpaStyling Board, 4081-60 | Shelves, HPL bonded boards, 4081-60

 Based on drafts by HDR GmbH | Düsseldorf














## STÄDTISCHES KRANKENHAUS MARIA-HILF | BRILON INTEGRATION OF A COMFORT STATION



 Furniture / desk / wall & ceiling paneling / wardrobe, HPL bonded boards, 0536-TP | Wall niche paneling, HPL bonded boards, 9410-TP | Doors, HPL, 9417-60

 RUGE +GÖLLNER GmbH | Vechta











# PRODUCT INFORMATION

# PRODUCT INFORMATION

An overview of properties



# PRODUCT INFORMATION

## TECHNICAL INFORMATION AND DATA

### HPL | COMPACT PANELS FOR INTERIOR USE

### COMPACT PANELS FOR LABORATORIES

			RESOPAL® HPL*	RESOPAL® COMPACT**	DURCON® SPC
		STANDARD	EN 438-3	EN 438-4	
Properties	Test Method	Unit	Value		
Surface abrasion resistance <sup>(1)</sup>	EN 438-2-10	Number of revolutions	≥ 150		
		Number	3		
Impact resistance <sup>(2)</sup>	EN 438-2-20	Number	4/3	-	
Resistance to impact with a small-diameter ball		N	≥ 20	-	-
Resistance to impact with a large-diameter ball	EN 438-2-21	Drop height in mm	-	≥ 1400 (2 ≤ t < 6) ≥ 1800 (6 ≤ t)	≥ 1800 (6 ≤ t)
Scratch resistance <sup>(3)</sup>	EN 438-2-25	Rating	4, 3, 2		5
Resistance to dry heat (160 °C)	EN 438-2-16	Rating	Glossy surfaces ≥ 3 Other surfaces: ≥ 4	5	
Lightfastness (Xenon arc lamp)	EN 438-2-27	Gray scale	4 to 5		
Resistance to water vapor	EN 438-2-14	Rating	Glossy surfaces ≥ 3 Other surfaces: ≥ 4	5	
Fire performance***	EN 13501	Euro class	D-s2, d0 C-s2, d0 / B-s2, d0 upon request	D-s2, d0 B-s1, d0 upon request	D-s2, d0
Front	EN 438-2-23	Rating	≥ 4	-	-
	EN 438-2-24		-	≥ 4	Front: 5 Edge: 4
Resistance to staining (16h)	EN 438-2-26	Rating	Groups 1 & 2: 5 Groups 3: ≥ 4		Groups 1&2: 5 Groups 3: White= 5; Black= 4
Food-safe	EN 1186 13130 / CEN TS 14234	Contact with food	Suitable		Not suitable
Heavy metals			Contains no toxic compounds based on antimony, barium, cadmium, chromium (III), chromium (VI), lead, mercury, selenium.		
Formaldehyde emissions	EN 16516	Class	E1		
Antibacterial effect	JIS Z 2801 ISO 22196	Reduction in %	≥ 99.9		-
Volatile organic compounds (VOC)	ISO 16000	Emissions class pursuant to French regulation	A		-
Environmental product declaration (EPD) <sup>(4)</sup>	ISO 14025 DIN EN 15804	Available	Yes		-
PEFC			upon request		
FSC®			upon request		

\*The values in the column below can only be taken for RESOPAL HPL. Other values may apply to special HPL products (RESOPAL Traceless, Colour, Pure White, Real Metal, Motiv in RESOPAL HPL).

\*\*The values in the column below can only be taken for RESOPAL Compact. Other values may apply to special Compact products (RESOPAL Compact Traceless, Colour/Unity, Pure White, Motiv in RESOPAL Compact).

\*\*\*Dependent on quality

<sup>(1)</sup> with almost all decors - <sup>(2)</sup> dependent on thickness - <sup>(3)</sup> dependent on structure - <sup>(4)</sup> ICDLI environmental protection declaration

The surface properties of HPL are also applicable for panels in wet rooms and for bonded boards. Bonded boards can be made with different HPL products, and their properties may therefore vary.

## MELAMINE-FACED BOARDS

			RESOPAL® MFB
		STANDARD	EN 14322/14323
Properties	Test method	Unit	Value
Surface abrasion resistance <sup>(1)</sup>	EN 14323	Number of revolutions (initial abrasion point)	Solid decors: ≥ 150 Printed decors: <50
		Class	Solid decors: 3A Printed decors: 1
Resistance to impact from a large-diameter steel ball	EN 14323	Drop height in mm For an impression of ≤ 10mm	≥ 500
Resistance to scratching <sup>(3)</sup>	EN 14323	N	≥ 1.5
Resistance to dry heat (160 °C) <sup>(3)</sup>	EN 438-2-16	Rating	≥3
Lightfastness	EN 14323	Gray scale	4-5
Fire performance	EN 13501	Euro class	> 9 mm: D-s2, d0 B-s2, d0 upon request
Susceptibility to cracks	EN 14323	Degree	≥3
Resistance to staining	EN 14323	Degree	Groups 1&2: ≥ 3
Food-safe	EN 1186 13130 / CEN TS 14234	Contact with food	Suitable
Formaldehyde emissions	EN 16516	Class	E1
Antibacterial effect	JIS Z 2801 ISO 22196	Reduction in %	≥99.9
Volatile organic compounds (VOC)	ISO 16000	Emissions class pursuant to French regulation	A
PEFC			Upon request
FSC®			Upon request

## COMPACT PANELS FOR EXTERIOR USE

			RESOPLAN®
		STANDARD	EN 438-6
Properties	Test method	Unit	Value
Resistance to impact from a large-diameter ball (shatter resistance)	EN 438-2-22	Drop height in mm (for impression diameter of ≤ 10mm) δ ≤ t	≥1800
Moisture resistance			
- Increase in mass	EN 438-2-15	% 2 ≤ t < 5 t ≥ 5	EDS / EDF ≤ 7 / ≤ 10 ≤ 5 / ≤ 8
- Appearance		Surface rating Edge rating	≥4 ≥3
Resistance to artificial weathering			
- Contrast	EN 438-2-29	Gray scale	≥ 3
- Appearance		Rating	≥ 4
Fire performance***	EN 13501-1	Euro class	EDS: D-s1,d0 EDF: B-s1,d0
Resistance to rapid change in climate			
- Appearance	EN 438-2-19	Rating	≥ 4
- Resistance to bending index Ds			≥ 0.8
- Flexural modulus index Dm			≥ 0.8
Heavy metals		-	Contains no toxic compounds based on antimony, barium, cadmium, chromium (III), chromium (VI), lead, mercury, selenium.

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