

# TABLE OF CONTENTS

ABOUT US	
MODULAR OPERATING ROOMS (OR, ICU, CSSD, PATIENT RECOVERY AREAS, CLEAN CORRIDORS,)	
• OUR SERVICES	
• WALL SYSTEM  WALL PANEL TYPE SLI  WALL PANEL TYPE SI  WALL PANEL TYPE SSI  WALL PANEL TYPE HPLI  WALL PANEL TYPE HPLLI  ELECTRICAL SOCKET PANEL  LED WALL PANEL  MEDICAL GAS PANEL	]
• CEILING SYSTEM	]
STANDARD EQUIPMENT     WORKSTATION     CONTROL OR INTEGRATION SYSTEMS     LAMINAR AIR FLOW CEILING (LAF UNIT)     SLIDING/SWING DOORS     EXHAUST GRILLE     LED CEILING LIGHT FIXTURES     PVC ELECTROCONDUCTIVE FLOOR	1 1 1 2 2 2
DESIGN/ENGINEERING DETAILS	2
CONSTRUCTION DETAILS	2
CUSTOM MADE FURNITURE (WOOD, HPL, SS)	2
• PHOTOGALLERY	<u>3</u>
DISCOVER OUR ADVANTAGES	3
OUR CERTIFICATES AND STANDARDS	3
• REFERENCES	3

<u>36</u>

#### **ABOUT US**

# MODULAR OPERATING ROOMS (OR, ICU, CSSD, PATIENT RECOVERY AREAS, CLEAN CORRIDORS, ...)

OPIKAR is a family-owned company, with headquarter in Logatec, Slovenia-EU.

Our company has been founded in year 1997 and has around 50 employees.

Since its establishment, the company has been continuously and stably growing, in terms of number of employees, annual turnover and scope of service and product portfolio.

#### **OPIKAR Group**

- OPIKAR s. p., Slovenia (Founded in 1997 –)
- OPIKAR, klimatizacija in čisti prostori d. o. o., Slovenia (Founded in 2016 –)
- OPIKAR Lüftungs- und Reinraumtechnik
   GmbH, Germany (Founded in 2020 –)

The companies are fully owned by the family and employ over 50 people. The annual income almost exceeds 10 million EUR. Our area of activity is the design and execution of HVAC and installation works, as well as cleanrooms in the most demanding industries, such as the pharmaceutical industry, food industry, microelectronic and semiconductor industry, automotive industry, healthcare, and other critical, strictly controlled, and regulated environments.

Our current focus lie on the DACH regions, the Benelux countries and Nordic.

All our companies utilise the TÜV Austria-certified quality management systems ISO 9001, the environmental management system ISO 14001, the occupational health and safety management system ISO 45001, and the certification of welding quality system ISO 3834.

Furthermore, our activities include engineering, design, 2D/3D modelling, and in-house manufacturing and assembly of cleanrooms for the healthcare industry (hospitals, clinics, etc.).

This includes modular operating rooms and other important functional hospital spaces. In this area, besides European markets, we place a significant emphasis on the markets in the Gulf states (Middle East).

• OPIKAR Nepremičnine d. o. o., Slovenia (Founded in 2019 –)

The company's main activity is leasing our real estate and building new multi-dwelling premises for sales purposes. We devote attention to developing investment and real estate projects, such as reconstructions, adaptations, and energy renovations of old buildings.

• OPIKAR Pohištvo d. o. o., Slovenia (Founded in 2024 –)

OPIKAR Furniture was created in 2024 with the acquisition of a local company (TIMO Furniture founded in 1996).

We are expanding our current offer and range of customers and further increase its array of pharmaceutical and medical customers through the manufacture of specialised, purpose-built HPL products and other high-quality materials. We cooperate with many world-renowned architectural and design offices that specialise in interior design and furnishing.

Company specialises also in manufacturing of wood furniture for hospitality/offices.

Early dedicated rooms for surgical procedures were called operating theatres because they were theatres, built in a gallery style for public observation. In the early 19th century, operations used to be advertised in newspapers and surgeons might get a round of applause at the end of the procedure from the public. It was not unknown for an operation to be cancelled because public demand was such that a larger theatre had to be found.

The design of operation rooms and their ancillary spaces has responded over the years to changes in surgical needs and practice. All contents of the rooms were therefore made of materials that were easily washable, all angles were rounded, window frames were flush with the inner surface of walls.

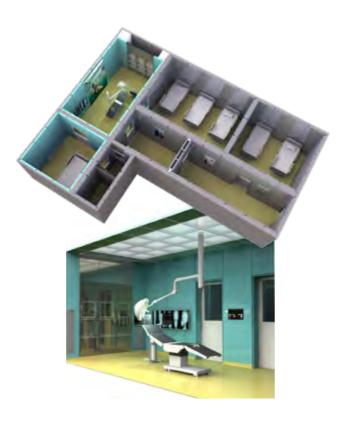
Minimum air change rate in the operating rooms is 20 air changes per hour. HEPA filters are responsible for the clean air that is necessary for OR environment which are placed in the Laminar flow systems on the ceiling or individual HEPA modules which are usually placed in the ceiling or at the wall at maximum height due to a limited space in the technical zone. Ventilation system also ensures a positive air pressure which prevents air flow from the other areas to the OR. For positive air pressure, the sum of return, exhaust and leakage must be less than the supply.

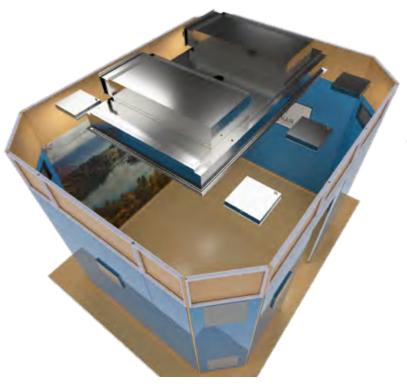
OPIKAR offers achitectural fit-out, production and installation/supervision of OR and optional HVAC.



#### **OUR SERVICES**

- Consulting
- Engineering (2D, 3D)
- Manufacturing
- Logistics (Dispatch)
- Own Installation in Europe, Supervision of Installation outside of Europe
- Arhitectural fit-out
- HVAC optional
- Co-ordination with other parties involved (electrical contractor, mechanical contractor, medical gas contractor, medical equipment supplier, civil contractor,...).







## You just need to inform us about size of operating room needed, we are taking care of rest.

- · With or without sub-structure
- Own development allowing bespoke developments for specific needs – »custommade solutions«
- Self-supporting system
- Ready to mount modular wall systems with integrated standard equipment
- Pre-fabricated openings for the equipment and appliances
- Modular system which allows to combine different materials inside the operating room
- · Easy upgrade and low maintenance costs
- Access to equipment from the corridors or from the operating room

OPIKAR modular operating room is a self-standing modular system.

Glass/HPL is integrated into the panel with the aluminium frame, insulation and sheet metal cover from the backside. There is also a different type of the glass/HPL panel which can support the glass on both sides.

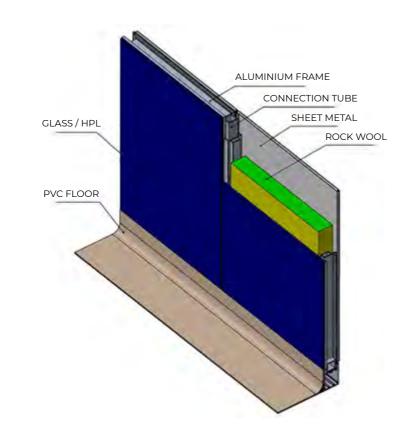
Glass/HPL are one of the best material to desinfect due to the smooth surface which enables easy cleaning. It is also resistant to all of the disinfectants that are used for cleaning.



3D MODEL.

#### **WALL PANEL TYPE SLI**

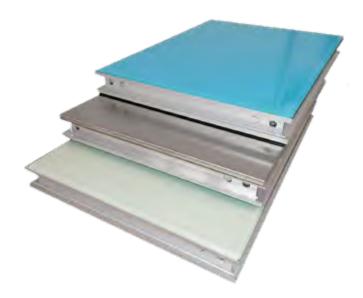
- · Thickness of 40 and 60 mm
- Dimensions; width 200-1000 mm, height 200-3000 mm
- · **CE** mark
- · 100 Pa tested
- Manufactured according to GMP
- Reaction to fire A2-s1-d0, HRN EN 13501-1:2019
- Sound insulation Rw=31 Db, HRN EN ISO 717-1:1998
- 6 mm tempered glass SIST EN 12150-2, SIST EN 14179-2
- Glass painted with enamel paint according to RAL chart
- Digital ceramic ink print for motives and high resolution pictures
- Rock wool 33 mm thick insulation, reaction to fire Euroclass A1, EN 13501-1, high density 100kg/m³
- Frame made out of extruded aluminium AW6061 T6 of high strength
- 0,8 mm galvanized steel back plate painted according to RAL chart



#### **WALL PANEL TYPE S1**

- · Thickness of 40 mm
- Dimensions; width 200-1000 mm, height 200-3000 mm
- · **CE** mark
- · 100 Pa tested
- · Manufactured according to GMP
- · Reaction to fire **A2-s1-d0**, HRN EN 13501-1:2019
- Sound insulation Rw=31 Db, HRN EN ISO 717-1:1998
- 6 mm tempered glass SIST EN 12150-2, SIST EN 14179-2
- Glass painted with enamel paint according to RAL chart
- Digital ceramic ink print for motives and high resolution pictures
- 0,8 mm galvanized steel back plate painted according to RAL chart
- Rock wool 33 mm thick insulation, reaction to fire Euroclass A1, EN 13501-1, high density 100kg/m<sup>3</sup>
- Frame made out of extruded aluminium AW6061 T6 of high strength
- · Pre-fabricated holes for the equipment

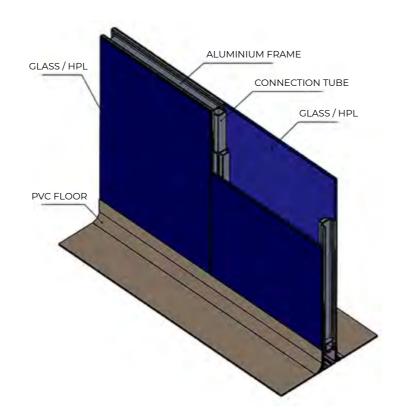




#### **WALL SYSTEM**

#### **WALL PANEL TYPE SS1**

- Thickness of 40 and 60 mm
- Dimensions; width 200-1000 mm, height 200-3000 mm
- · **CE** mark
- · 100 Pa tested
- Manufactured according to GMP
- Reaction to fire A2-s1-d0, HRN EN 13501-1:2019
- Sound insulation Rw=31 Db, HRN EN ISO 717-1:1998
- Double 6 mm tempered glass SIST EN12150-2, SIST EN 14179-2
- Glass painted with enamel paint according to RAL chart
- Digital ceramic ink print for motives and high resolution pictures
- · Different colors or motives on each side
- Rock wool 33 mm thick insulation inside, reaction to fire Euroclass A1, EN 13501-1, high density 100kg/m³
- Frame made out of extruded aluminium AW6061 T6 of high strength
- · Moisture protection inside the frame
- · Suitable for dividing walls
- · Transparent double glass wall optional
- Suitable for fully flushed windows inside OPIKAR wall
- · Pre-fabricated holes for the equipment





#### **WALL PANEL TYPE HPL1**

- · Thickness of 40 and 60 mm
- Dimensions; width 200-1000 mm, height 200-3000 mm
- · **CE** mark
- · 100 Pa tested
- · Manufactured according to GMP
- · Reaction to fire **B2-s2**, **d0**
- Sound insulation Rw=33 dB, HRN EN ISO 717-1:1998
- · 6 mm HPL. EN 438-3
- Rock wool 33 mm thick insulation inside, reaction to fire Euroclass A1, EN 13501-1, high density 100kg/m³
- Frame made out of extruded aluminium AW6061 T6 of high strength

- · Cladding solution
- Aluminium steel reinforcements inside the panel for integrated equipment
- · Pre-fabricated holes for the equipment



#### **WALL PANEL TYPE HPLL1**

- · Thickness of 40 and 60 mm
- Dimensions; width 200-1000 mm, height 200-3000 mm
- · CE mark
- · 100 Pa tested
- · Manufactured according to GMP
- · Reaction to fire B-s2, d0
- Sound insulation Rw=33 dB, HRN EN ISO 717-1:1998
- 6 mm HPL, EN 438-3
- 0,8 mm galvanized steel back plate painted according to RAL chart

- Rock wool 33 mm thick insulation inside, reaction to fire Euroclass A1, EN 13501-1, high density 100kg/m3
- Frame made out of extruded aluminium AW6061 T6 of high strength
- · Cladding solution
- Reinforcements inside the panel for integrated equipment
- · Pre-fabricated holes for the equipment

#### **CEILING SYSTEM**

#### **ELECTRICAL SOCKET PANEL**

- · Stainless steel 1 mm AISI 304
- · HPL 6 mm, optional
- 1 mm AISI 316 on demand
- Dimensions; width 200-1000 mm, height 200 mm
- · Suitable for different electrical sockets
- Fully flushed stainless steel/ HPL plate with our wall system
- · Without backplate for easier acces
- · With or without electrical sockets



#### LED WALL PANEL

- · 150 mm thickness with LED casing
- Dimensions; 800 x 550 mm (w x h), 1000 x 550 mm (w x h)
- 6 mm tempered glass SIST EN 12150-2, SIST EN 14179-2
- Frame made out of extruded aluminium AW6061 T6 of high strength
- · Integrated LED light inside the panel
- · Fully flushed

#### **MEDICAL GAS PANEL**

- · Stainless steel 1 mm AISI 304
- · HPL 6 mm, optional
- · 1 mm AISI 316, optional
- Dimensions; width 200-1000 mm, height 200 mm
- · Suitable for different medical gas sockets
- Fully flushed stainless steel/
   HPL plate with our wall system
- · Without backplate for easier acces
- · With or without medical gas socket
- Draeger medical gas sockets,
   DIN EN ISO 9170-1, DIN 13260-2, optional



#### **CEILING PANEL**

- 34 mm thickeness
- · Non-walkable
- · 600 x 600 mm standard dimension
- · Different dimensions available on request
- · RAL 9002 or RAL 9010 standard color
- · With or without thermal insulation inside
- · Coloured galvanized steel 0.8 mm
- Removable ceiling panel without the use of tools
- · Easy acces to the technical area

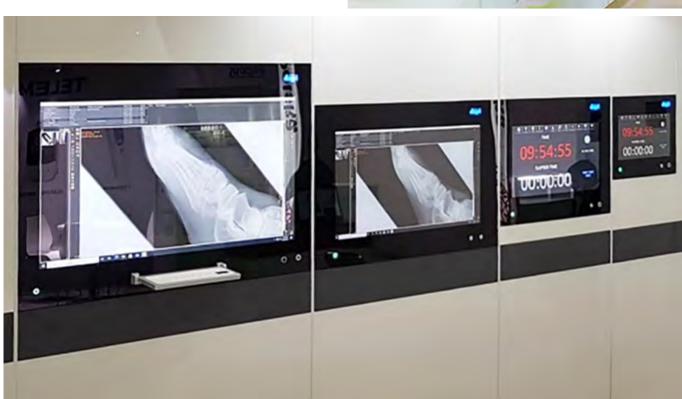




#### **WORKSTATION**

- 32", 44", 55" workstation or video panel
- Pre-prepared cutouts ready for mounting equipment and appliances
- · Console system for heavier equipment
- Access for equipment from the corridors or operating room











#### **CONTROL OR INTEGRATION SYSTEMS**

- · Supply and installation
- · 22" or 32" display
- · Different sizes available
- · OT busy lamp ON/OFF control
- Operation lighting control/ dimmer function
- General lighting control/ dimmer function
- Horizontal LED wall lighting control/dimmer function
- · X-RAY lamp ON/OFF control
- UV lamp control
- · Time, date
- AHU unit control
- · Anaestethic gas scavenging control
- · Damper ON/OFF control
- · Temperature and humidity control
- Differential pressure and HEPA filter saturation control
- · Gas pressure status monitorization
- · Chronometer
- · Automatic door control
- · Disabling door opening when busy
- · MP3 player













| 16

#### LAMINAR AIR FLOW CEILING (LAF UNIT)

- · Supply and installation
- · HEPA absolute filtration
- · Stainless steel housing AISI 304
- Perforated stainless steel AISI 304
- · Replaceable HEPA filter
- Air flow velocity 0.15-0.30 m/s
- · ASHRAE
- · Standard Ø 110 mm opening for medical light
- DOP connection
- Filter saturation control
- AISI 316 optional
- · Textile diffuser optional
- · Various dimensions on request
- · DIN 1946-4





#### **SLIDING/SWING DOORS**

- · Hermetic or semi-hermetic sliding doors
- · Supply and installation
- · 60 mm wing thickness
- · Fully glazed or stainless steel wing
- · One or double wing
- X-ray protected doors with 1, 2 or 3 mm thick lead screening optional
- · Round or rectangular window
- · Non-toxic silicon seals
- · Profiles flushed with the internal wall
- · Wall frame for different wall thicknesses





#### **EXHAUST GRILLE**

- · Supply and installation
- · 625 x 625, 625 x 425, DIN 1946-4
- · AISI 304
- · AISI 316 optional
- · Brushed or polished stainless steel
- Round or rechtangular perforated grille
- · Various dimensions
- · G4 filter included
- Removable perforated grille without the use of tools

#### **LED CEILING LIGHT FIXTURES**

- · Supply and installation
- · IP65
- · 3000 4000 K
- · 3382 19344 lm
- · 38 156 W
- · 230V/50Hz
- · DALI optional
- · RGB optional
- + 50.000 h lifecycle
- with power suply





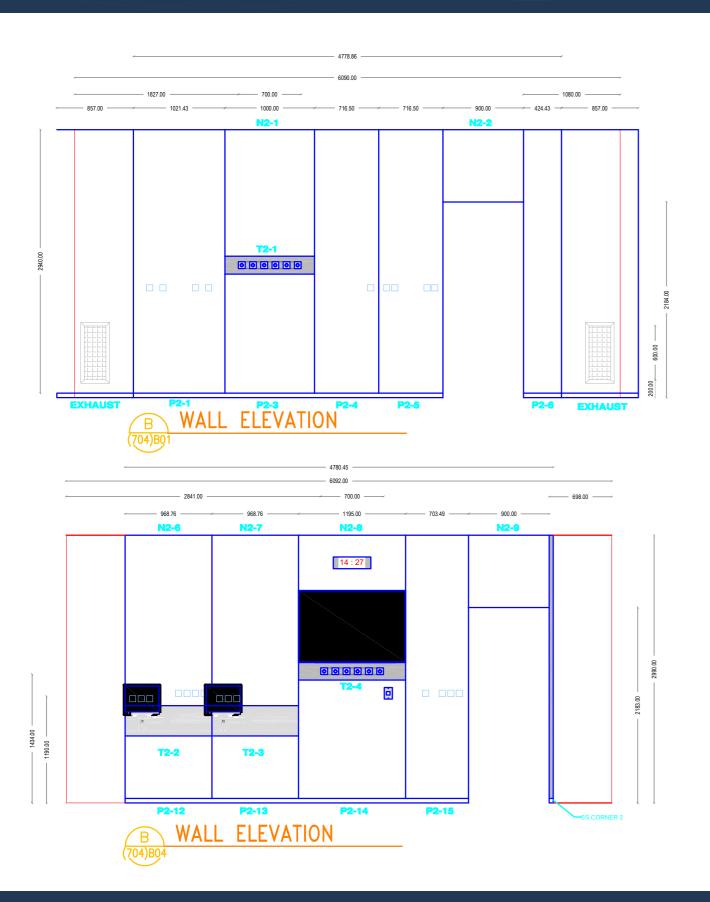
#### **PVC ELECTROCONDUCTIVE FLOOR**

- · EN ISO 10581 (EN 649)
- · 2 mm thickeness, EN 428
- Static electrical propensity EN 1815,
   2 kV
- · Fire reaction Bfl-s1
- Thermal conductivity EN ISO 10456 (EN 12524) 0.25 W/(m.K)
- · CE mark EN 14041
- · Various colors available



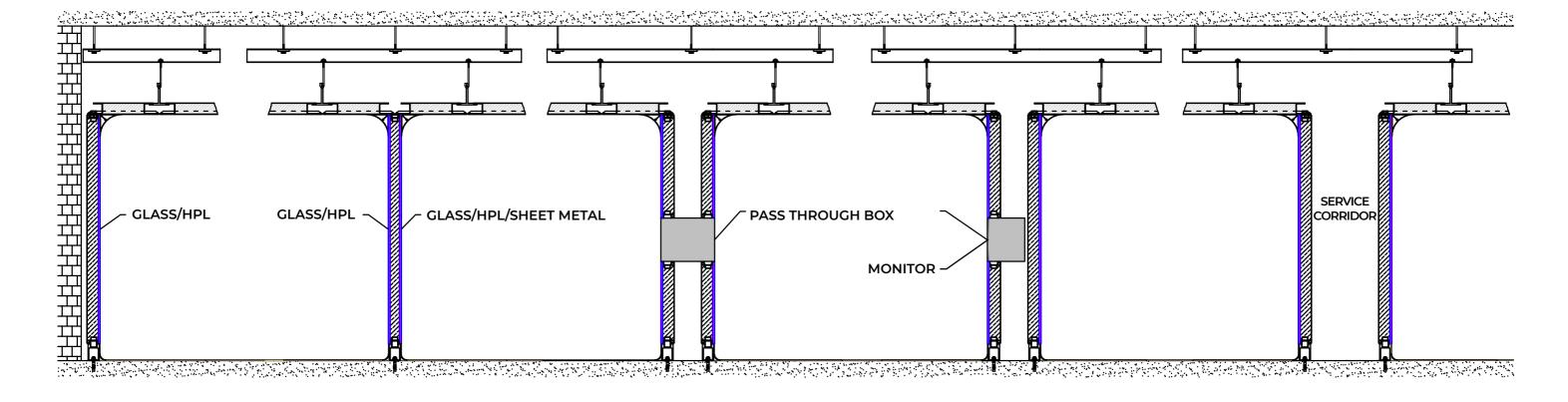


## DESIGN/ENGINEERING DETAILS





## **CONSTRUCTION DETAILS**



Cladding solution for all types of building walls.

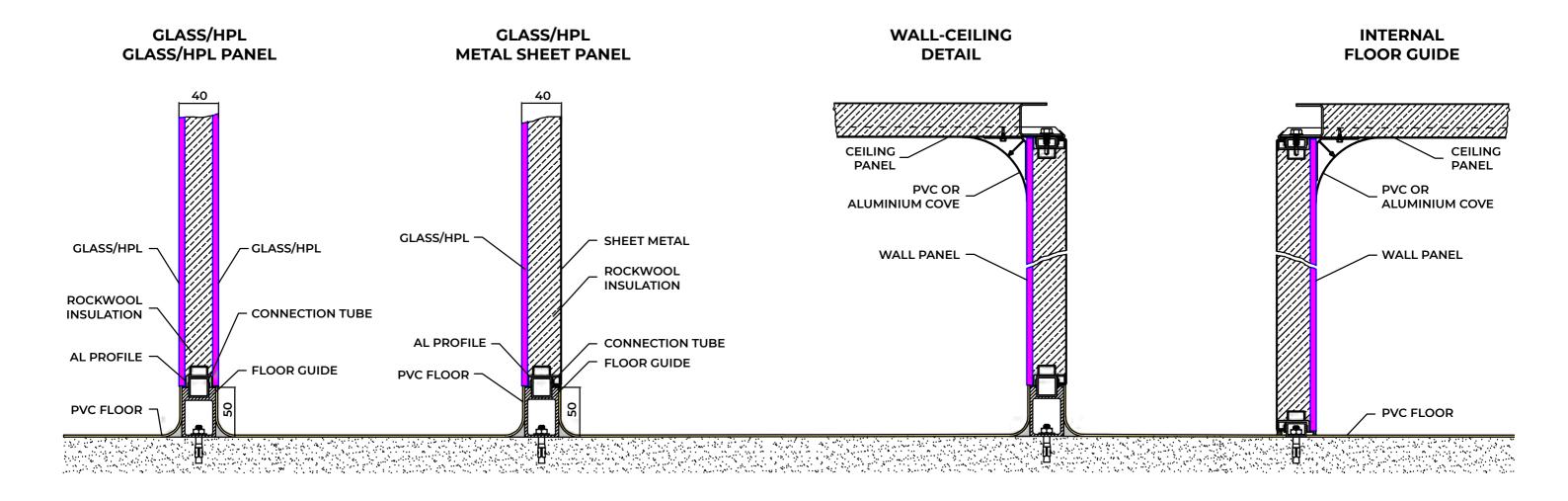
Cladding system does not require building wall for installation (min. thickness 50 mm). Single panel dividing wall with glass or HPL on both sides (thickness 60 mm).

Double wall solution for pass through box or other integrated equipment.

Double wall solution for integrated equipment visible on one side of the wall.

Double wall solution for service corridor.

25



## **CUSTOM MADE FURNITURE (WOOD, HPL, SS)**

#### **PHOTOGALLERY**

Comprehensive solutions for custom-made furniture and interior design for houses, apartment complexes, hotels, commercial spaces, and cleanrooms in the healthcare, pharmaceutical industries and laboratories, we offer a wide range of services, including design, manufacturing, installation, maintenance, upgrades/revamps and customisation. Our tailor-made furniture solutions can enhance the aestethics and functionality of your space.

#### Company OPIKAR Pohištvo d. o. o.

OPIKAR Furniture was created in 2024 with the acquisition of TIMO Furniture (1996).

TIMO Furniture is a company with a longstanding tradition since 1996. It has extensive experience in furniture manufacturing and carpentry. It boasts a plethora of references for furnishing houses, apartments, office spaces, medical and pharmaceutical facilities, hotels, congressional centres, etc.

The acquisition of TIMO Furniture, its commercial premises, all manufacturing equipment, and employees will enable OPIKAR Furniture to expand its current offer and range of customers and further increase its array of pharmaceutical and medical customers through the manufacture of

specialised, purpose-built high-pressure laminate products and other high-quality materials.

Our experienced and trained carpenters, furniture, and interior designers will ensure an exceptional customer experience and highquality products.

Aside from Slovenia, our target market includes all other European and global markets.

We cooperate with many world-renowned architectural and design offices that specialise in interior design and furnishing.

We are optimistic about the future and promise that service, product quality, and customer satisfaction will remain our highest priority.







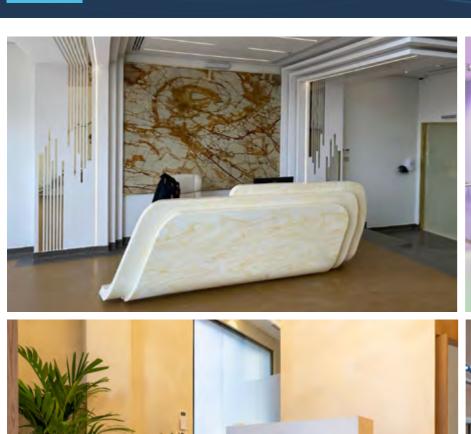








## **PHOTOGALLERY**

















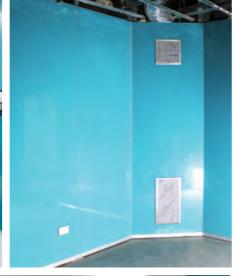


























## **DISCOVER OUR ADVANTAGES**

OPIKAR is known as disciplined, reliable and very flexible partner where quality is guaranteed.

#### RELIABILITY

Projects and tasks are carried out responsibly, to completion and within agreed deadlines.
Each employee understands their duties, responsibilities and authority and acts accordingly.



## COLLABORATION / CO-OPERATION

We work with all stakeholders fairly and transparently. We support each other, share best practices and continuously improve OPIKAR's overall performance.



#### **AGILITY**

Agility is our way of operating. We manage changes during service delivery with resourcefulness and a practical approach.



#### **EXPERTISE**

We deliver expertise and implement optimal solutions for all stakeholders and the company. We continuously enhance our skills and competences.



## WELL-ORGANISED APPROACH

Each of us employs a wellorganised approach to own workload, enabling us to achieve the best possible results. Project work is carried out according to schedules. In case of deviations, work is organised in a way that ensures the project's objectives are met. OUR CURRENT ORGANISATION MEMBERSHIPS















#### **OUR CERTIFICATES AND STANDARDS**

# is our business plan













## **REFERENCES**

Full reference project list on request.

#### Pharmaceuticals, Biotech, Labs





























#### **Semiconductors, Microelectronics**













#### **Automotive industry**













#### Food & Beverage industry









#### Healthcare















