



RooSy wall system

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RooSy wall system

Substructure

The self-supporting substructure made of sendzimir galvanized steel forms the basis of the wall system.

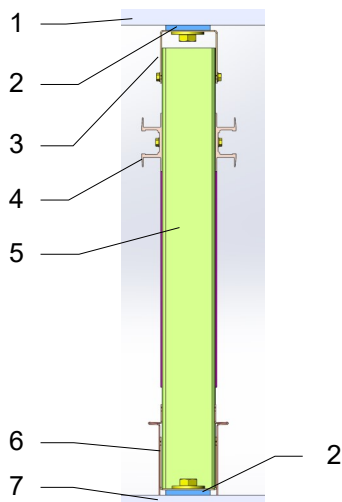
The substructure is connected from raw floor/screed to raw ceiling up to a total height of 6m.

The supports are fixed to the floor and ceiling with u-profiles.

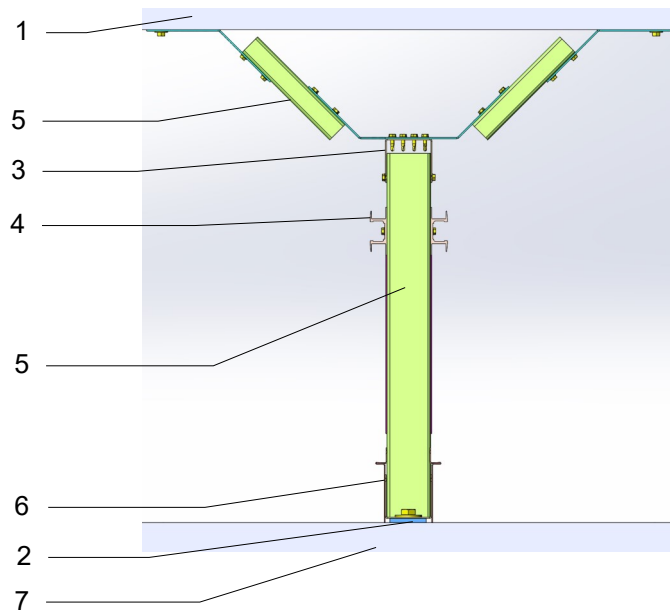
Through the base sheet (height ca. 100mm), the orientation of the wall elements is ensured.

The ceiling rail constitutes the transition from the wall elements to the ceiling.

up to 4m room height



over 4m room height



1. Raw ceiling
2. Sealing tape
3. U profil
4. Ceiling rail
5. Support
6. Socket profile + U profil
7. Floor



RooSy wall system

Wall covering

All wall elements, installations and frames are flush mounted to each other.

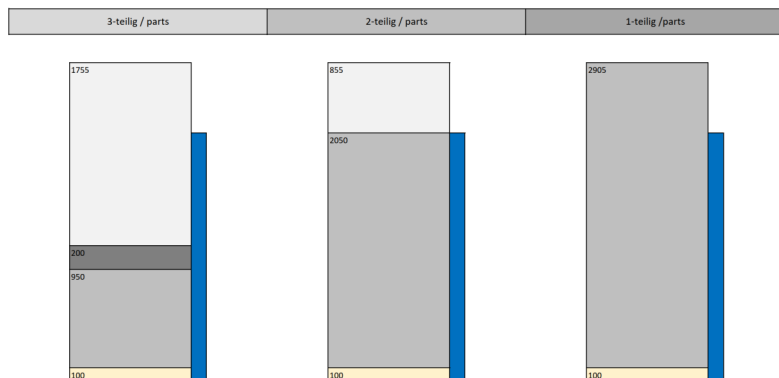
Flush mounting ensures maximum cleanability and disinfectability and thus prevents the spread of bacteria and infections.

The vertical supports from the substructure form the grids.

Between substructure and wall covering are different sealing strips which seal the wall system. Thus the system is suitable for overpressure and underpressure. No liquid silicone is used for sealing.

Versions of wall coverings:

- 1-part system with a maximum grille size of 900mm and a maximum room height of 3.000mm
- 2-part system with a maximum grille size of 1.200mm
- 3-part system with a maximum grille size of 1.200mm



The wall elements are made of high-quality stainless steel sheet (0.8mm sheet thickness) and a plasterboard that is glued over the entire surface. The wall elements are polished or powder-coated. The wall elements are attached with special clamps and screws.

Between the wall elements vertically creates a joint, this is closed by a HTV silicone profile.

Maximum wall element dimensions:

Wall classification	Max. width	Max. height	Max. room height
1 tlg.	900mm	2.900mm	3.000mm
2 tlg.	1.200mm	2.900mm	3.400mm
3 tlg.	1.200mm	2.900mm	3.400mm

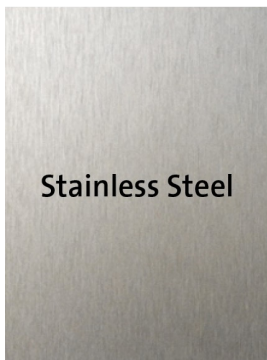


RooSy wall system

Cladding materials

Operating Room (OR)

Intensive Care Unit (ICU)



Stainless Steel



Acryl stone



Glass



HPL

The RooSy wall system from medifa offers a wide range of wall claddings, from polished stainless steel to coloured powder-coated sheet steel and HPL to 3-metre-high glass elements.

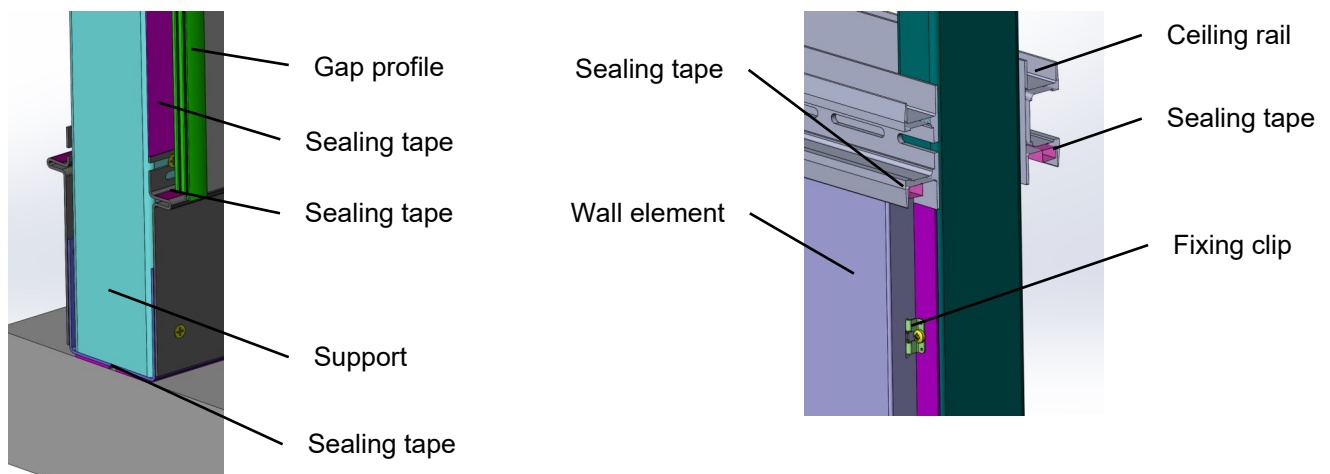
Wall surfaces and design options:

Surface	Description
Stainless steel sanded	Grinded and brushed
Powder-coated	Mixed powder coating on the basis of epoxy polyester resins according to DIN 67530, silk matte, gloss level 60°
Powder-coated, antibacterial	Mixed powder coating with antibacterial effect (according to Japanese norm JIS Z 2801)
Glass lacquered	Lacquered on the reverse side
Digital printing on steel	Individual printing on powdered metal
Digital printing on glass	Individual printing on the reverse side of the glass element
HPL Classic	In plain colours
HPL Premium	With premium or wooden decor



RooSy wall system

Sealing concept



Joint profile :

The joint profile is made of HTV silicone SH75° +/- 5° - food law harmless according to FDA-CFR21—Part 177.2600 BfR XV

Wall thickness:

Depending on the installation and use, the wall system is designed in different wall thicknesses or as an facing shell.

Wall thicknesses: 100mm / 165mm / bis 600mm

Equipotential bonding:

The substructure and the wall elements are connected to the equipotential bonding of the operating room according to VDE 0100, Teil 710

Radiation protection:

The wall elements have a lead equivalent at 100kV of about 0.2Pb.

Further lead equivalents can be implemented with additional lead inserts up to 3,5mm Pb.



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Certificates

- Static test according to DIN 4103-1: 2015, DIN18183-1: 2018 and ETAG003: 2013
- General building authority test certificate P-1101/807/18-MPA BS according to norm DIN 4103-1:2015-06
- Hygiene report iki—Institut für Krankenhaushygiene und Infektionskontrolle GmbH (Institute of hospital hygiene and infection control)
- Airborne sound measurement according to DIN EN ISO 10140-2
- Blower-door test according to DIN EN 13829-B

Results airborne sound measurement :

Wall type	Rw (C;Ctr)
3-part RooSy– wall wall thickness 100mm	44 (-1; -5) dB
3-part RooSy– wall wall thickness 100mm with insulation filling material	52 (-2; -5) dB
3-part RooSy– wall wall thickness 200mm	44 (-2; -7) dB
3-part RooSy– wall wall thickness 100mm with insulation filling material	66 (-2; -8) dB
1-part RooSy– wall wall thickness 100mm	44 (-2; -7) dB