

creating  
new spaces



**OPTIMAL**





**OPTIMAL SYSTEM:**

Polish movable wall system.

We create a new space based on our own technology. We set safety, aesthetic and acoustic standards, in order to follow our customer needs. The company has been operating on the partition wall market since 2004 throughout the European Union and beyond. The walls of Optimal System are installed, among others in a hotel in French Polynesia - one of the most isolated places from Poland. Our walls shape the space in renowned hotels, offices, conference rooms, and public utility buildings. We provide safety, peace and comfort of work.

**SUSTAINABLE DEVELOPMENT:**

We are socially responsible. Sustainable development is part of our company's strategy. We cooperate with research units, we care for the local community. Our employees are our key capital. Our products are made with respect for the natural environment. We do not use bituminous mats in order to increase the acoustic insulation of our products. Optimal System walls are safe, in line with the company's strategy. This is the fundamental feature of our products.

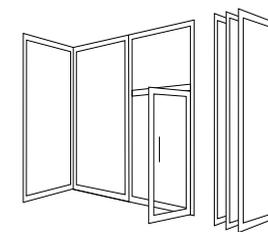
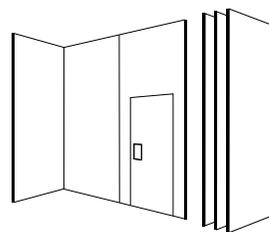
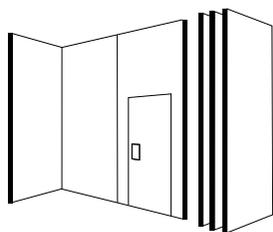
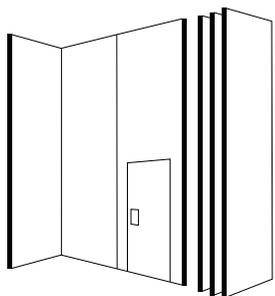
**POLISH MANUFACTURER:**

Optimal System mobile walls are the most frequently chosen mobile wall systems in Poland. Light and automated walls allow for the optimal division of rooms. The system of mobile acoustic walls ensures the highest comfort of use (e.g. thanks to the possibility of automatic expansion of modules and high acoustic insulation).

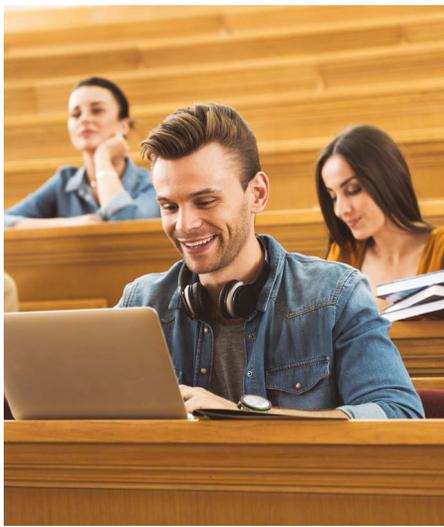
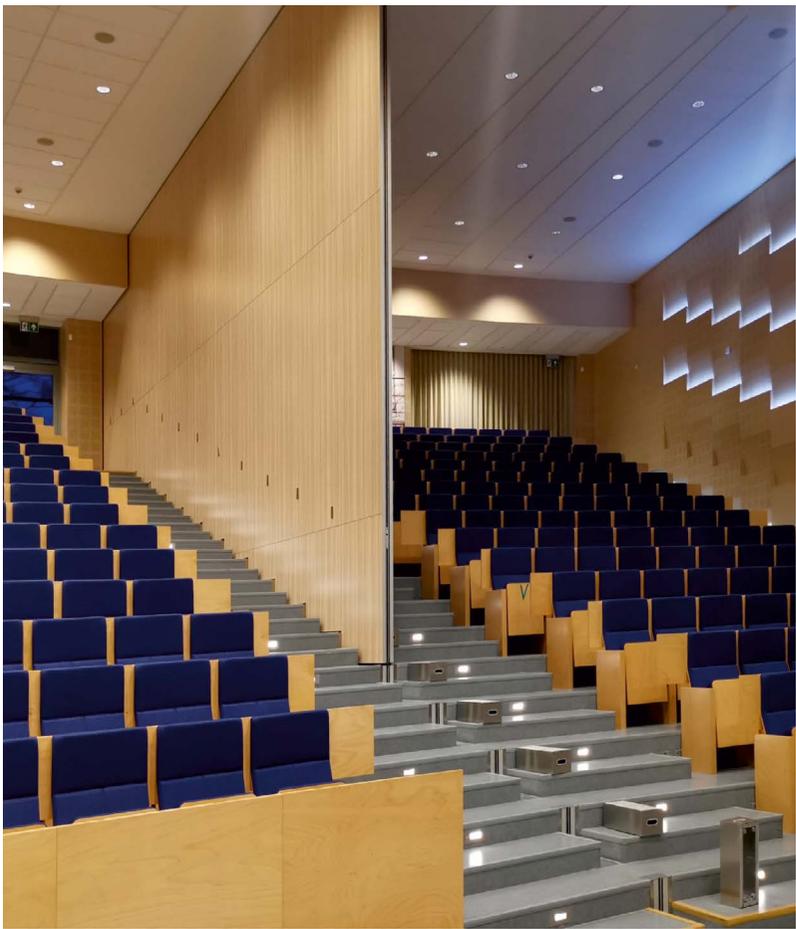
We invite you to cooperate with us



movable  
partition walls

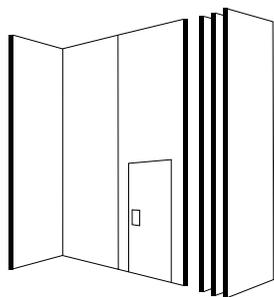


| Rw    | movable walls                   | pp. 6-7 | movable walls   | pp. 8-13 | movable walls      | pp. 14-15 | movable walls           | pp. 16-17 |
|-------|---------------------------------|---------|---|----------|--------------------|-----------|-------------------------|-----------|
| 57 dB | Optimal <b>110 sky plus</b>     | 57 dB   | Optimal <b>110 plus</b>   | 57 dB    |                    |           |                         |           |
| 54 dB | Optimal <b>110 sky plus</b>     | 54 dB   | Optimal <b>110 plus</b>   | 54 dB    |                    |           |                         |           |
| 53 dB | Optimal <b>110 sky plus alu</b> | 53 dB   | Optimal <b>110 plus alu</b>   | 53 dB    |                    |           |                         |           |
| 52 dB |                                 |         | Optimal <b>110 plus fire</b>  52 dB |          |                    |           |                         |           |
| 51 dB |                                 |         |   |          | Optimal <b>110</b> | 51 dB     |                         |           |
| 50 dB |                                 |         | Optimal <b>110 plus glass</b> 50 dB   |          |                    |           |                         |           |
| 49 dB |                                 |         |   |          | Optimal <b>110</b> | 49 dB     |                         |           |
| 45 dB |                                 |         |   |          | Optimal <b>110</b> | 45 dB     |                         |           |
| 33 dB |                                 |         |   |          |                    |           | Optimal <b>50 glass</b> | 33 dB     |
| 32 dB |                                 |         |   |          |                    |           | Optimal <b>50 light</b> | 32 dB     |



impressive  
and safe





### Optimal 110 sky / Optimal 110 sky plus / Optimal 110 sky plus alu

System of high movable walls which enables the division of very high rooms. The system has been tested for safety of use and mechanical strength which is confirmed by the construction sign . Our technology of building high movable walls offers a solution that in a simple way (manually or semi-automatically operated) allows the division of rooms such as lecture halls, sports halls, warehouses. Certified up to a height of 10850 mm.



ITB-KOT  
2022/1699  
Issue 1

#### Acoustic insulation:

Optimal 110 sky plus:  $R_w = 57$  dB  
 Optimal 110 sky plus:  $R_w = 54$  dB  
 Optimal 110 sky plus alu:  $R_w = 53$  dB  
 Optimal 110 sky:  $R_w = 45$  dB /  $49$  dB /  $51$  dB

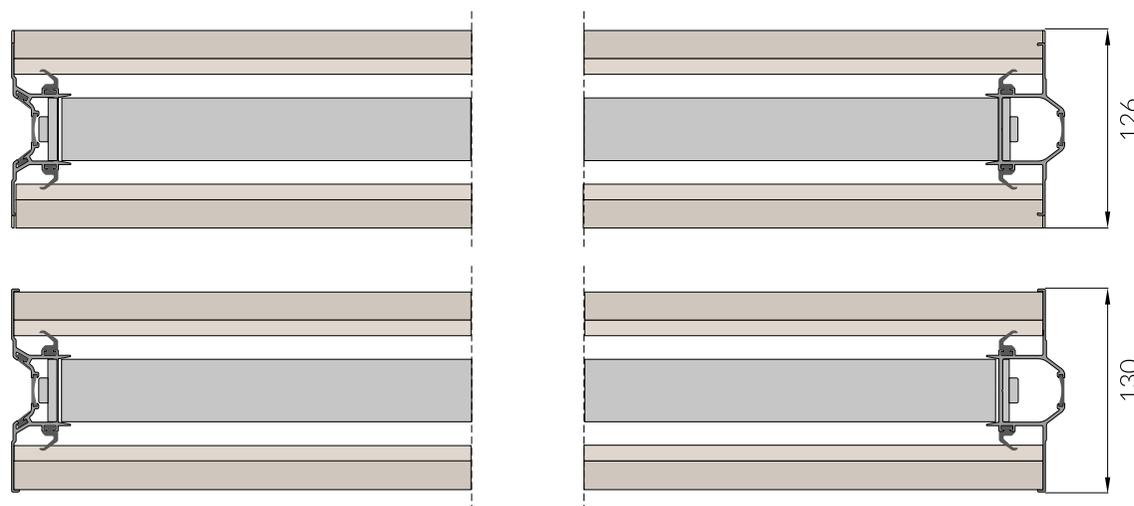
#### Equipment options:

Single and double-leaf doors  
 Manual or semi-automatic operation

#### Fire reaction class:

D - s2, d0 / B - s1, d0 / B - s2, d0

| R <sub>w</sub> | movable walls                   |
|----------------|---------------------------------|
| 57 dB          | Optimal <b>110 sky plus</b>     |
| 54 dB          | Optimal <b>110 sky plus</b>     |
| 53 dB          | Optimal <b>110 sky plus alu</b> |
| 52 dB          |                                 |
| 51 dB          |                                 |
| 50 dB          |                                 |
| 49 dB          |                                 |
| 45 dB          |                                 |
| 33 dB          |                                 |
| 32 dB          |                                 |

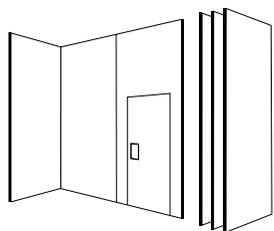


measurement >  
 design >  
 production >  
 installation >



appreciated  
in Poland  
and around  
the world





### Optimal 110 plus and Optimal 110 plus alu

The most advanced system in terms of acoustic insulation parameters. The advantages of the system are its sound insulation properties at the level of  $R_w = 57$  dB. The lack of visible vertical aluminium profiles in the Optimal 110 plus system creates additional arrangement possibilities. The visible vertical edges of the Optimal 110 plus alu system can be powder coated to any colour (RAL CLASSIC).



ITB-KOT  
2022/1699  
Issue 1

#### Acoustic insulation:

Optimal 110 plus:  $R_w = 57$  dB  
 Optimal 110 plus:  $R_w = 54$  dB  
 Optimal 110 plus alu:  $R_w = 53$  dB

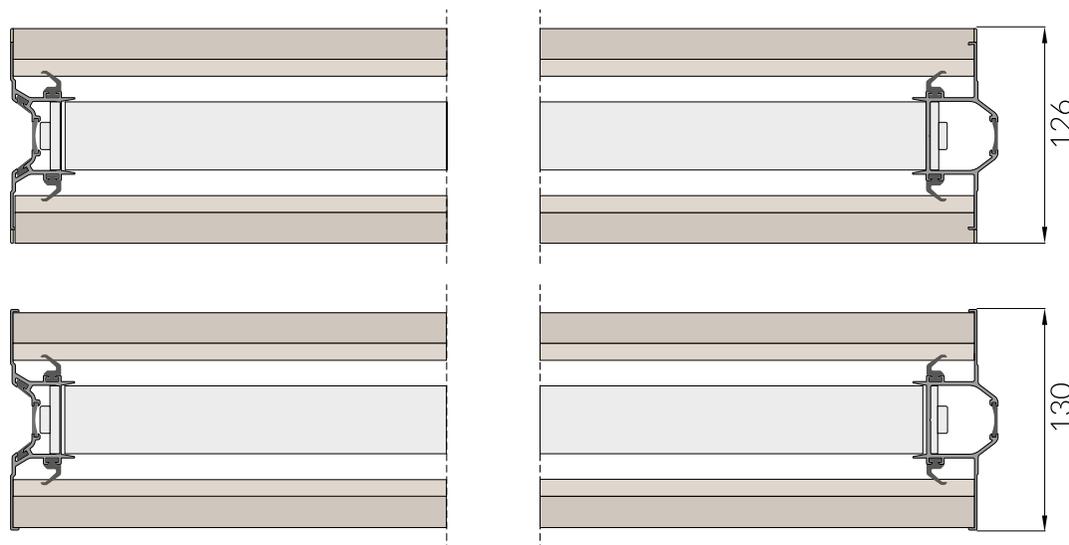
#### Equipment options:

Single and double-leaf doors  
 Manual or semi-automatic operation  
 Glazed modules ( $R_w = 50$  dB)  
 Connecting mobile walls modules at different angles

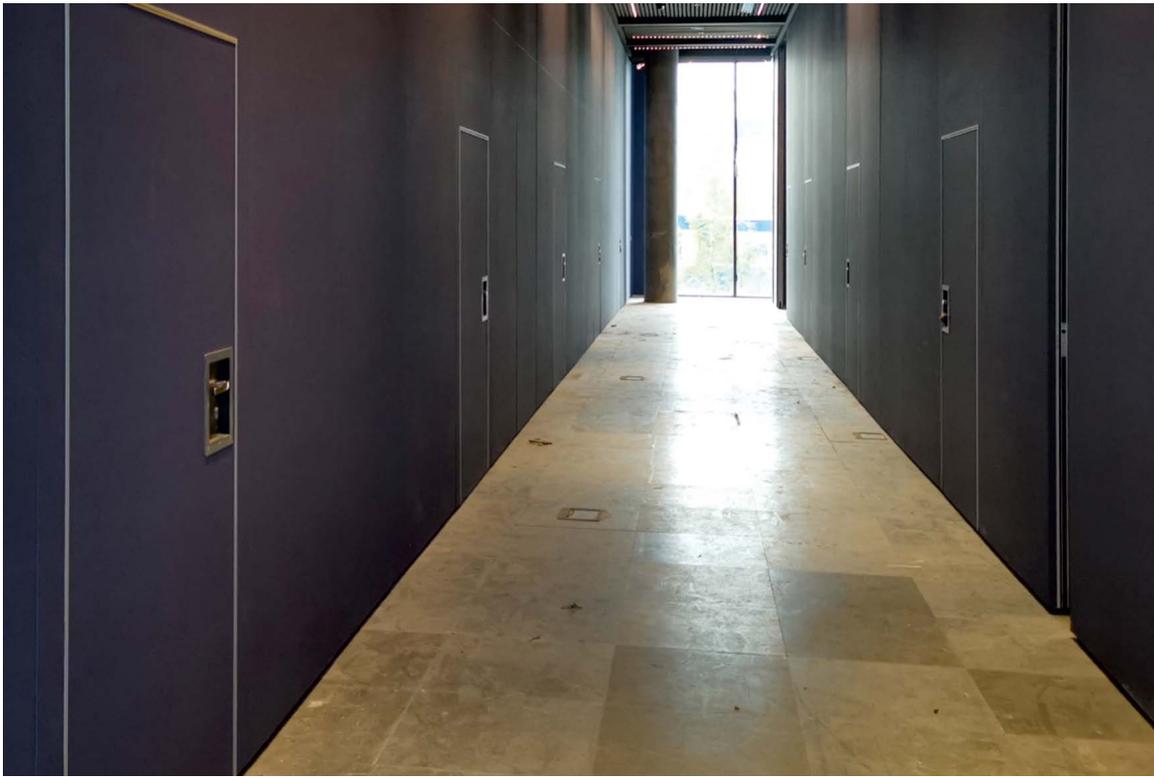
#### Fire reaction class:

D-s2, d0 / B-s2, d0

| Rw    | movable walls               |
|-------|-----------------------------|
| 57 dB | Optimal <b>110 plus</b>     |
| 54 dB | Optimal <b>110 plus</b>     |
| 53 dB | Optimal <b>110 plus alu</b> |
| 52 dB |                             |
| 51 dB |                             |
| 50 dB |                             |
| 49 dB |                             |
| 45 dB |                             |
| 33 dB |                             |
| 32 dB |                             |

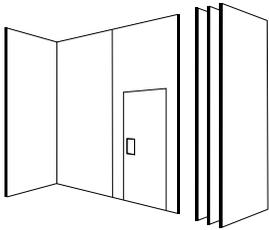


measurement >  
 design >  
 production >  
 installation >



secure  
and subtle





### Optimal 110 plus fire

Safe system of fire rated movable walls. System with a thickness of 126 mm, without visible vertical aluminium profiles forming a uniform surface with fire resistance class EI30. Its maximum height is 4653 mm with unlimited length. Acoustic comfort is guaranteed by the  $R_w$  parameter of 52 dB. At the same time, full compatibility with the Optimal 110 Plus system is ensured.

#### Acoustic insulation:

Optimal 110 plus fire:  $R_w = 52$  dB

#### Equipment options:

Single-leaf door  
Manual or semi-automatic control

#### Fire reaction class:

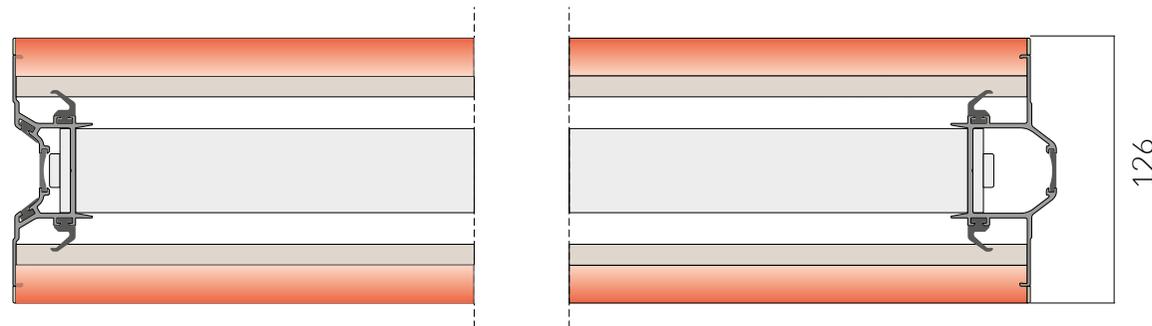
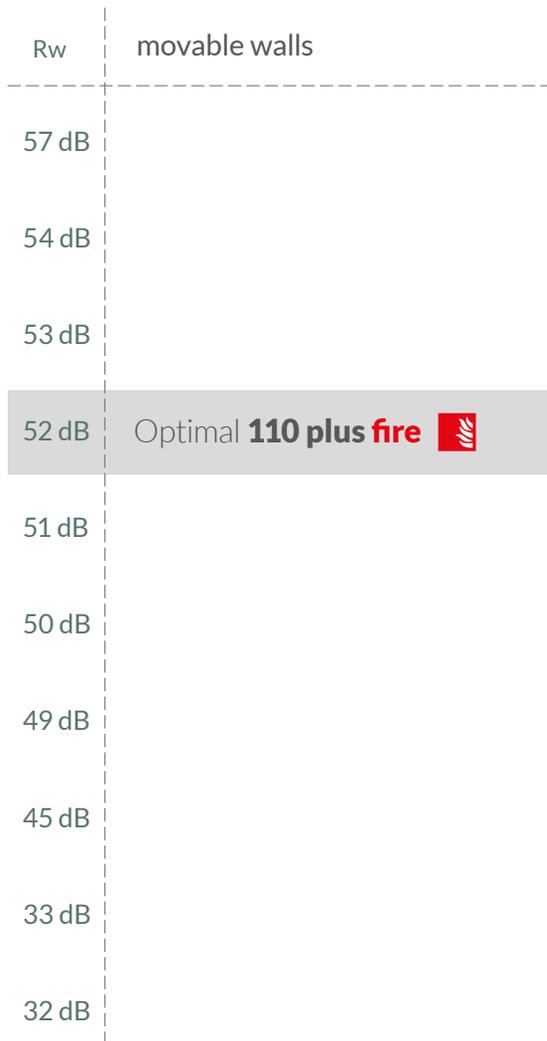
B-s2, d0

#### Fire resistance:

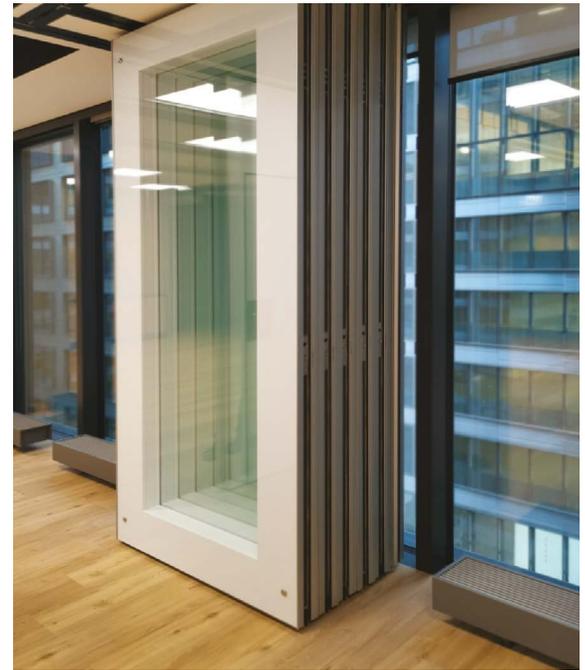
EI30



ITB-KOT  
2022/1699  
Issue 1

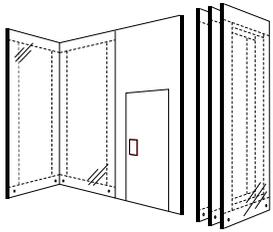


measurement >  
design >  
production >  
installation >



materials  
structures  
colours





### Optimal 110 plus glass

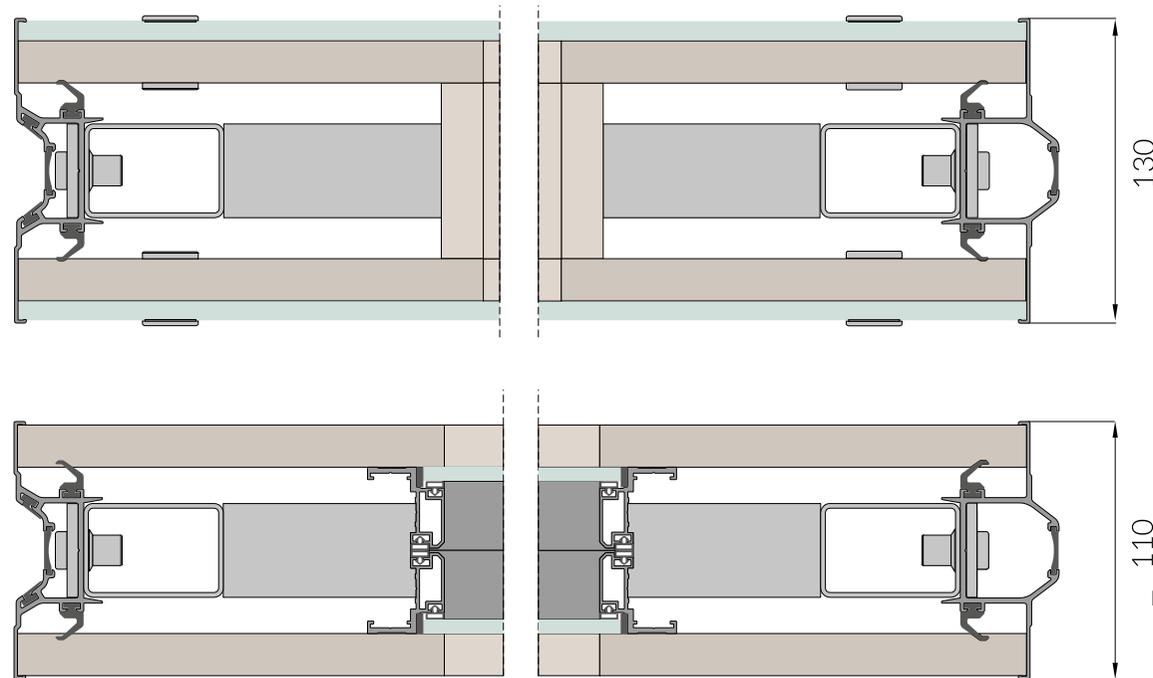
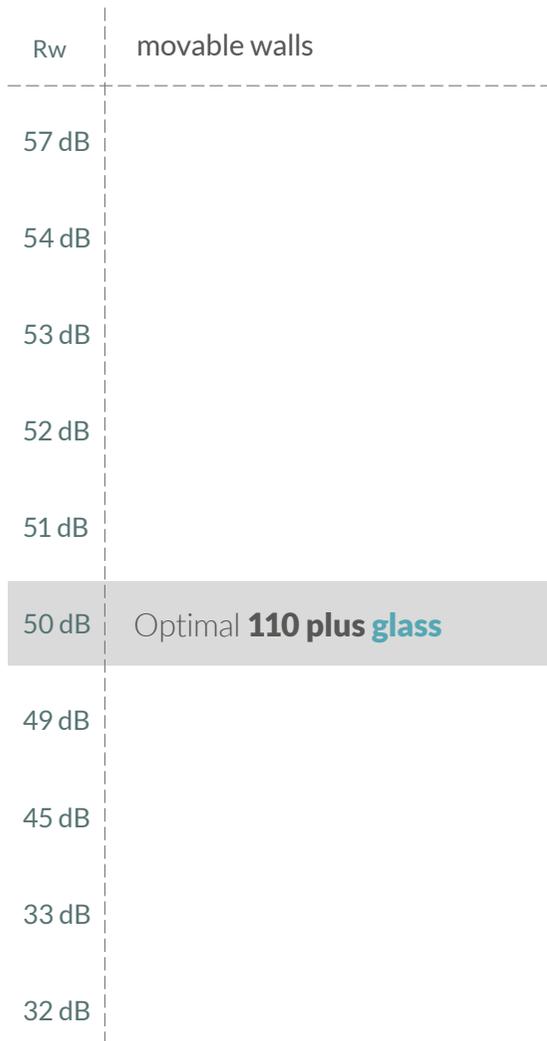
System of mobile walls finished with safety glass. Glass modules available in two options - with increased acoustic insulation at the level of  $R_w = 50$  dB (with surface glass), and basic with glazing inside the module\*. In both cases, glazed modules can be combined with full modules of appropriate Optimal 110 system family.

### Acoustic insulation:

Optimal 110 plus glass:  $R_w = 50$  dB

### Equipment options:

Single and double-leaf doors (finished with a laminated panel)  
Manual or semi-automatic control



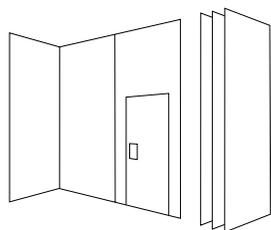
measurement >  
design >  
production >  
installation >

\* cross-section of the Optimal 110 glass module (page 15)



experience  
and potential





### Optimal 110

A system of mobile walls with an extremely universal application and many configuration options. Sound insulation from  $R_w = 45 \text{ dB}$  to  $R_w = 51 \text{ dB}$ , possibility of using door modules and angular modules. Modules available in reaction to fire classes: D-s2, d0 or B-s1, d0 or B-s2, d0, and with impact resistance in class IVb, finished with laminated chipboard, or safety glass. Manual or semi-automatic operation. System is marked with the construction sign .



ITB-KOT  
2022/1699  
Issue 1

#### Acoustic insulation:

$R_w = 45 \text{ dB} / 49 \text{ dB} / 51 \text{ dB}$

#### Equipment options:

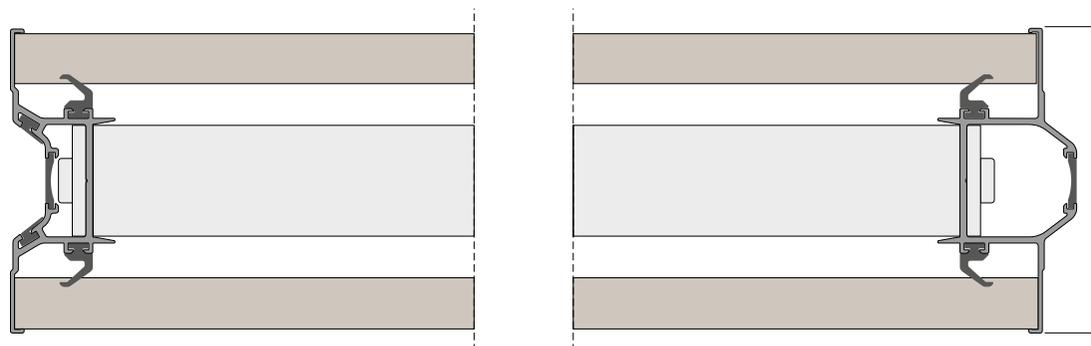
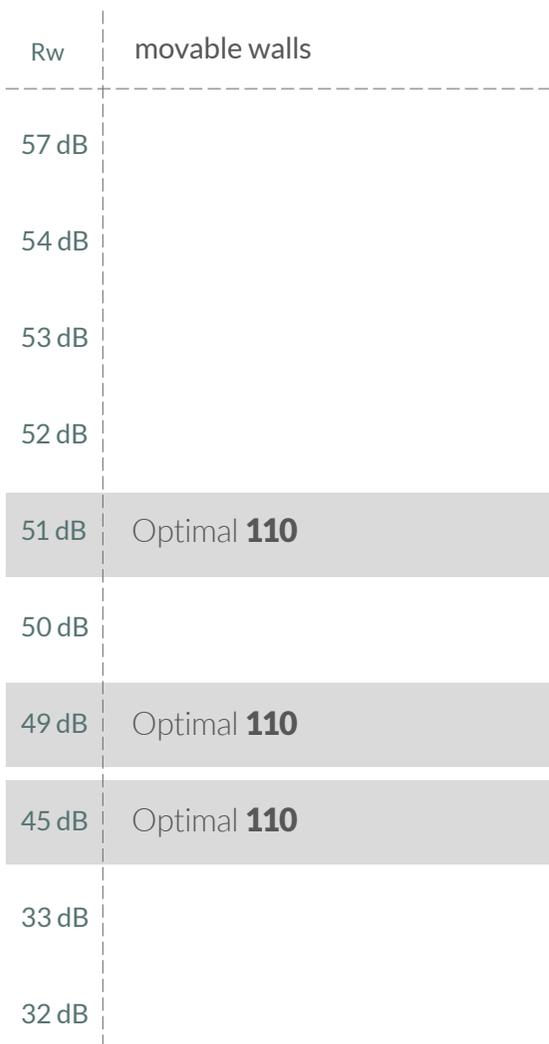
- Single and double-leaf doors
- Manual or semi-automatic operation
- Glazed modules
- Connecting mobile walls modules at different angles

#### Fire reaction class:

D-s2, d0 / B-s1, d0 / B-s2, d0

#### Finishing options for the entire family of Optimal 110 systems:

mirror, whiteboard, modules prepared for wallpapering, HPL laminate, veneer



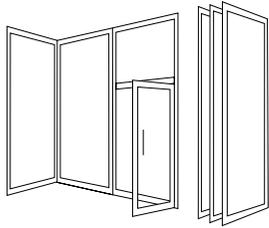
110

measurement >  
design >  
production >  
installation >



space  
is our  
specialty





### Optimal 50

An economical system for quick and aesthetic division of areas. Made of aluminium profiles filled with laminated chipboard or safety glass. The system offers a multitude of colour versions - from the basic version in a silver anode, to any colour from the RAL CLASSIC palette. By adding laminated panels, available in several dozen variants, and the possibility of a horizontal panel/glass division, we achieve, many possible combinations of finishing.

#### Acoustic insulation:

Rw = 32 dB – filled with laminated chipboard

Rw = 33 dB – filled with VSG safety glass

#### Equipment options:

Single-leaf door

Connecting mobile walls at 90° angle

#### Fire reaction class:

D-s2, d0 / B-s1, d0

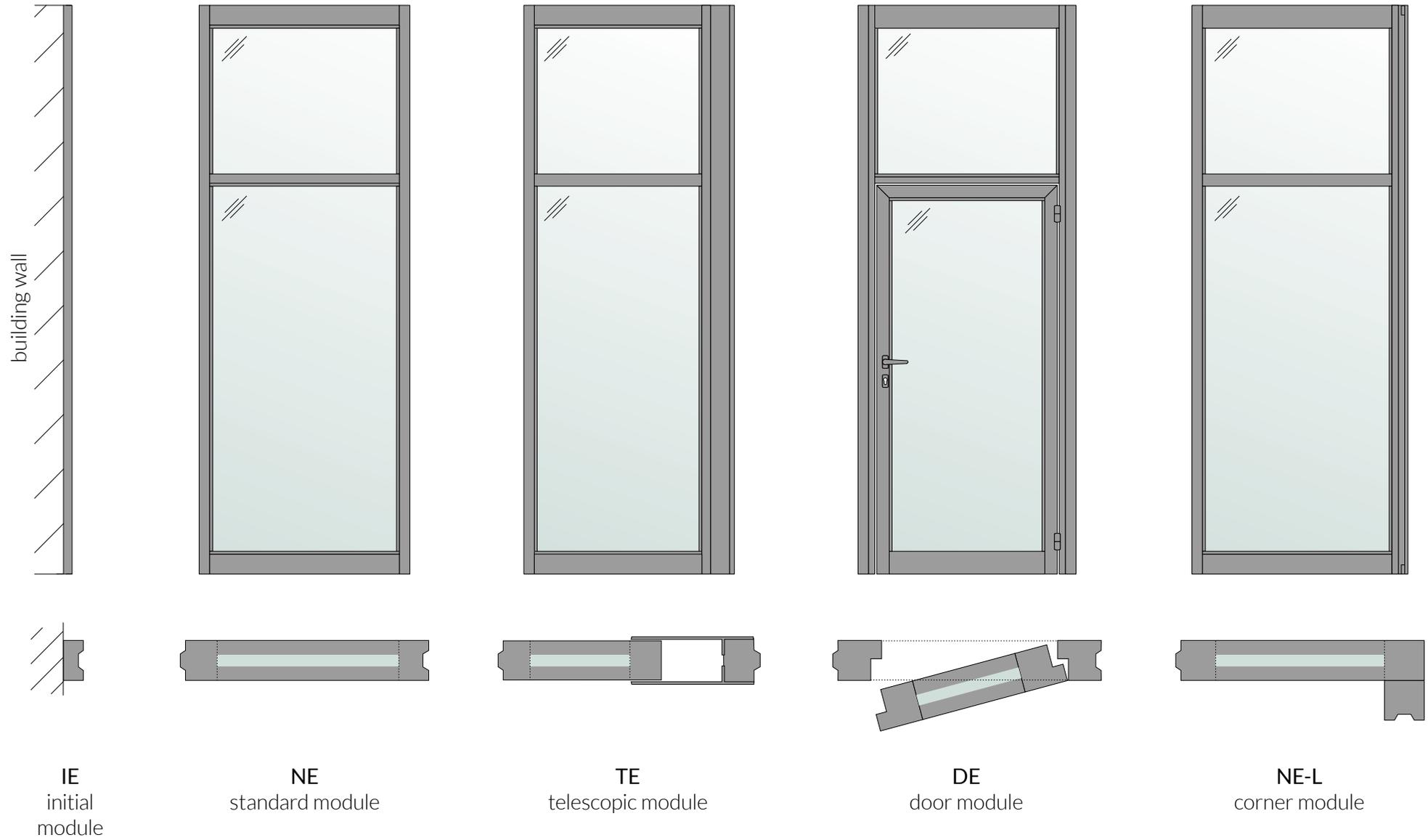
#### Optional finishes:

mirror, whiteboard, frosted glass, translucent glass

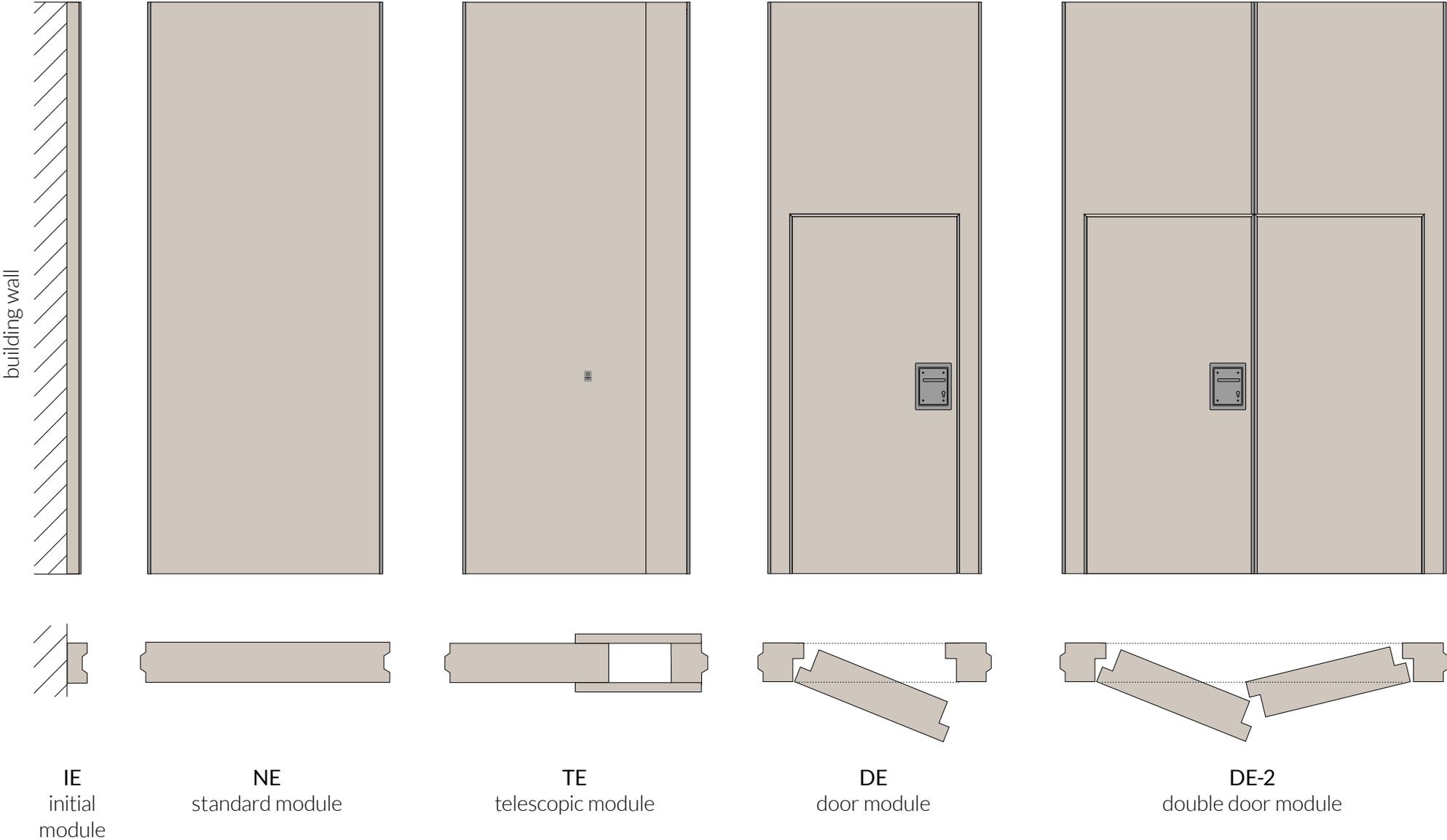


- measurement >
- design >
- production >
- installation >

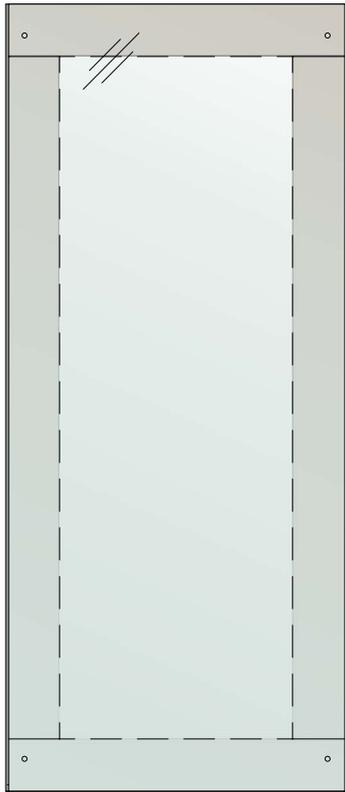
Standard modules of the Optimal 50 system



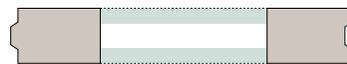
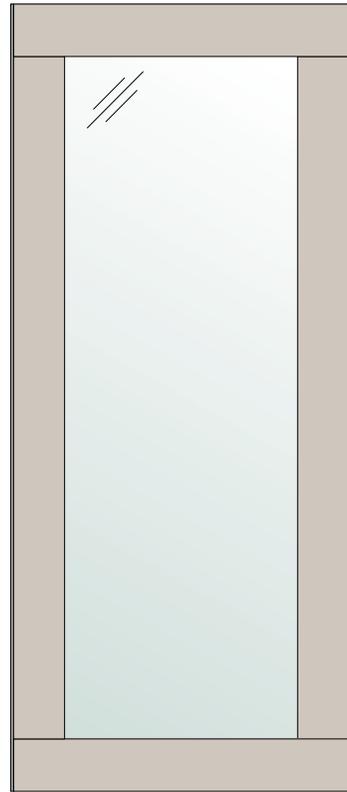
Standard modules of the Optimal 110 / Optimal 110 plus systems



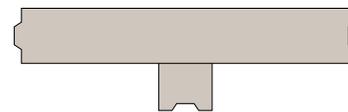
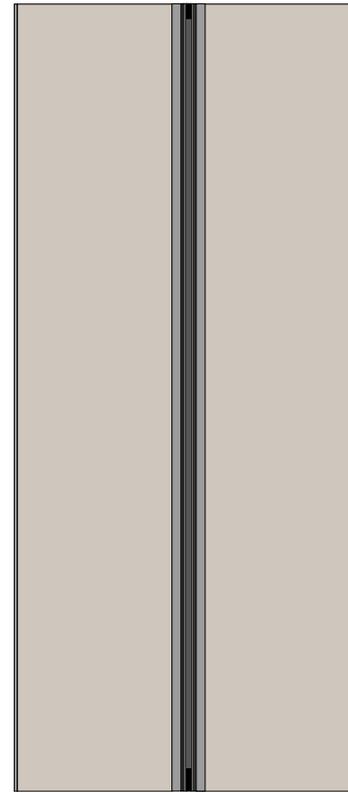
Standard modules of the Optimal 110 / Optimal 110 plus systems



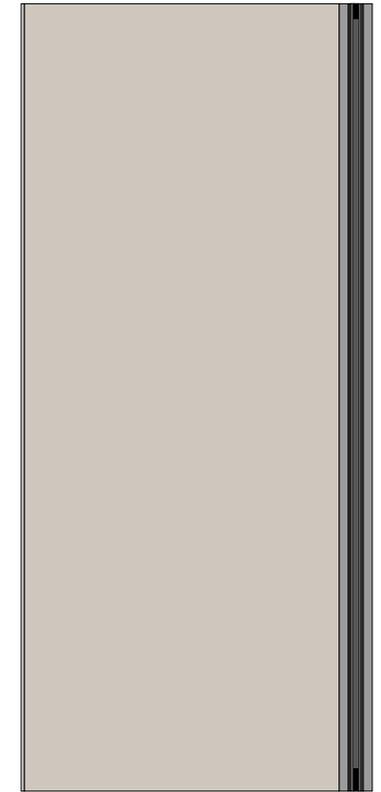
**SE PLUS**  
glazed module  
surface glass



**SE**  
glazed module  
internal glass

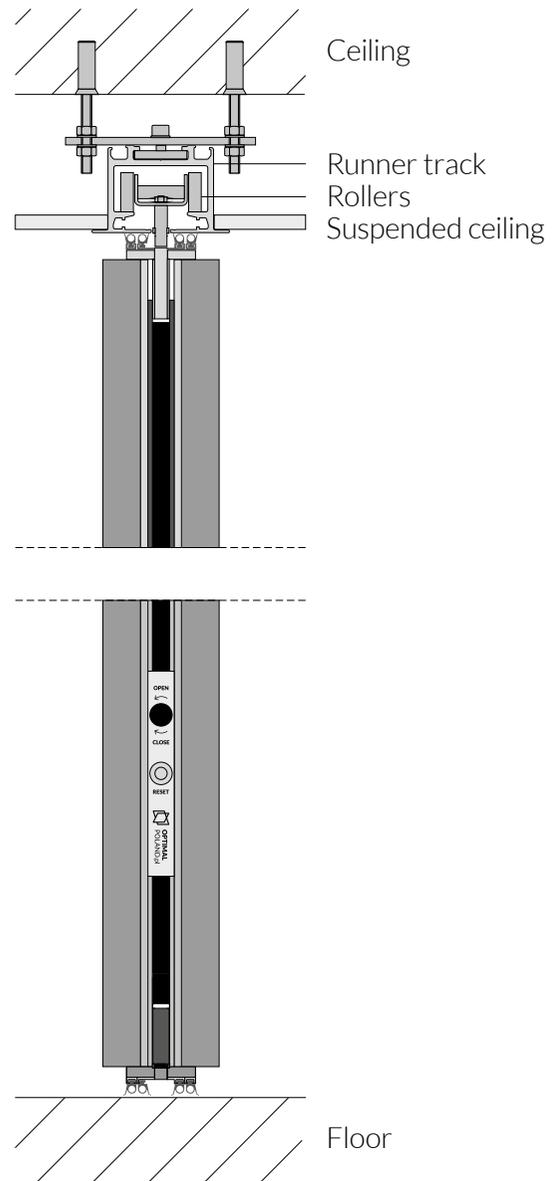


**NE-T**  
angular module

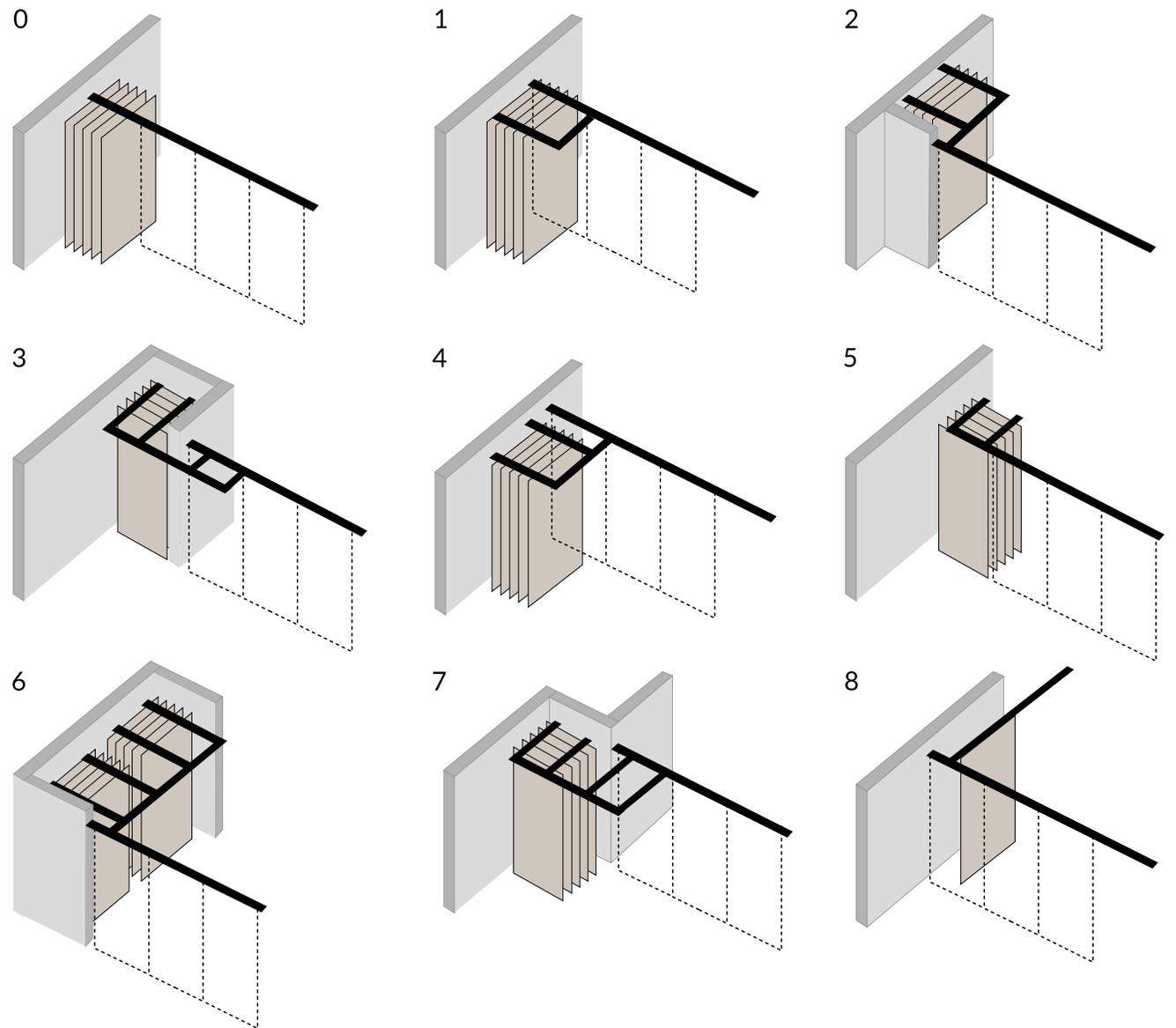


**NE-L**  
corner module

## Movable wall installation



## Movable wall parking options





## TESTS AND CERTIFICATES:

Our priority is to provide walls that are not only functional and aesthetic, but above all safe. In order to guarantee the highest level of safety of use, we constantly cooperate with certified laboratories of the Building Research Institute. As part of the research program, we checked our walls in terms of: fire resistance, sound insulation, safety of use, durability and usability, resistance to soft and heavy body impact, resistance to horizontal force, resistance to vertical static force and many others. In other words: we burned, pressed, hit with steel balls and heavy bags, hung huge loads, all in order to guarantee the highest level of safety and functionality. Evidence of the unprecedented nature of our activities includes conducting field research on the safe use of the Optimal 110 mobile wall, which is 10 850 mm tall.

### ITB-KOT-2022/1699 National Technical Assessment (KOT)

It is a documented, positive assessment of the functional properties of the basic characteristics of a construction product, which, in accordance with the intended use, have an impact on the fulfilment of basic requirements by construction facilities in which the product will be used. The basic requirements are listed in Article 5 (1) (1) of the Act of July 7, 1994 - Construction Law (Journal of Laws of 2013, item 1409, as amended).

### National Declaration of Performance (KDWU) and sign

Optimal 110 sliding walls, in accordance with ITB-KOT-2022/1699, are mass-produced products intended for general use. Movable walls Optimal 110, in accordance with ITB-KOT-2022/1699, are marked with the construction sign  and have the National Declaration of Performance (KDWU).



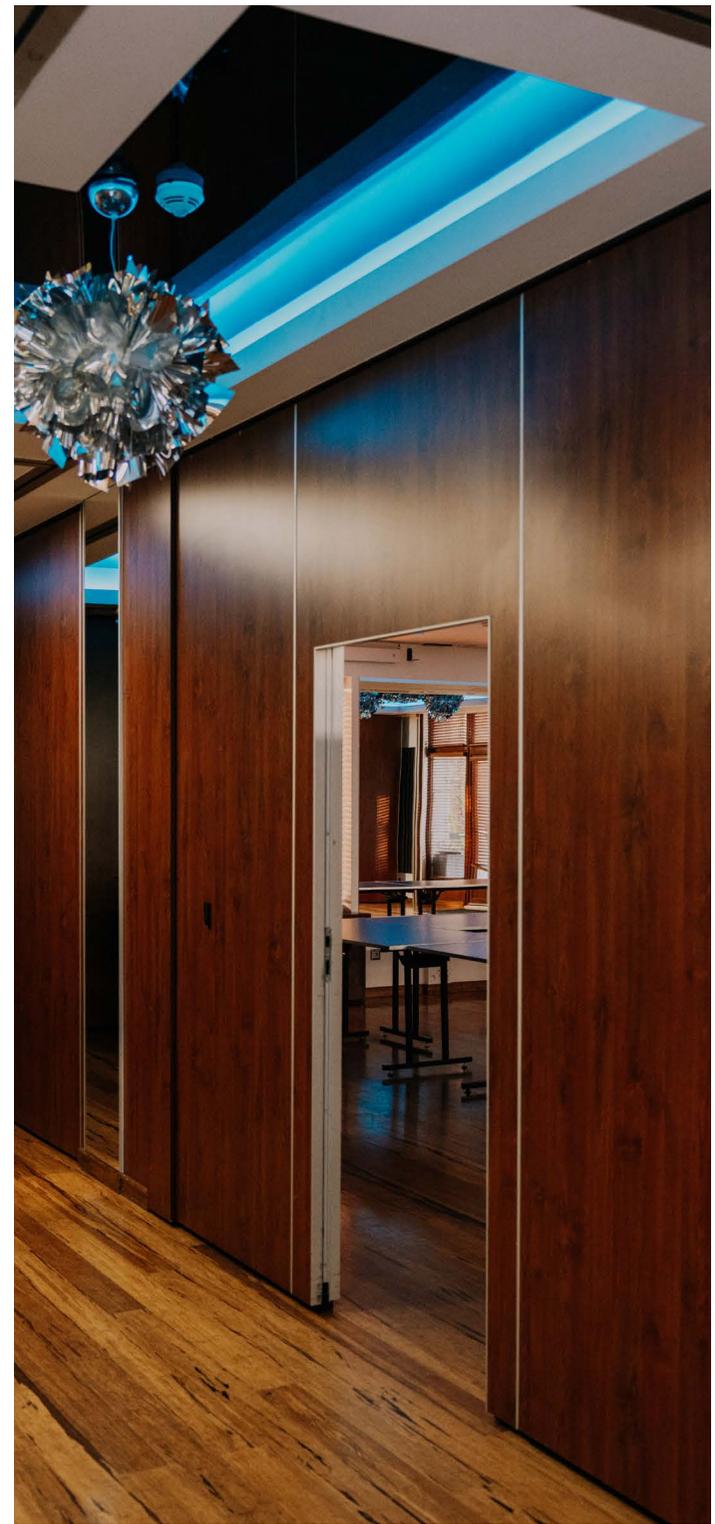
- measurement >
- design >
- production >
- installation >

















creating  
new spaces







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[mobile.walls@optimal-system.eu](mailto:mobile.walls@optimal-system.eu)

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+48 501 286 402  
+48 690 371 355