

The Partition Wall



**Relocatability
without material loss**

**Perfection
in detail**

**Fulfilment of the
highest constructional
requirements**

**Versatility
and compatibility**

**Optimized
room acoustics**

**System-integrated
solutions**

Partition walls

create spaces.

The **feco** system. Visible perfection.



feco partition wall systems are as individual as your project.

System partition walls are lightweight, non-load-bearing, unitized and removable interior walls with closed and transparent surfaces made of wood, glass and metal. They consist of a metal substructure and two-sided cladding with intermediate insulation as well as glazings and doors. The wall elements are prefabricated building-specific at the factory and assembled on site in short, clean assembly processes.

feco system partition walls meet the highest construction-related requirements in terms of sound insulation, sound absorption, fire protection and statics.

Add to this, the wide-ranging design options. In addition to a wide variety of surfaces, the feco system offers a wide range of glazing options for every requirement and every taste.

The big advantage of the feco system partition walls is their relocatability.

In conjunction with an element system matched to the building grid, rooms can be subsequently adapted to requirements, walls installed and removed or doors exchanged for wall elements – if desired, even during ongoing business operations. The additional investment compared to drywall walls usually pays for itself with the first conversion measure.

The partition wall elements – whether solid wall, glazing or door units – all have a basic wall thickness of 105 mm. Door and glass frames are face-flush with the closed wall elements and separated by 6 mm shadow joints. The only exceptions to this wall thickness are the recessed-designed fecoplan glazings and the special design variants with wall thicknesses of 125 mm and 175 mm respectively for exceptional static and acoustic requirements.

All fastenings are concealed as standard. Screw connections or other point connections are not visible, neither in the closed wall elements nor in glass walls. Connections to the floor, wall and ceiling have recessed shadow joints. The ceiling connection has a standard telescopic design to accommodate construction tolerances and structural movements.

One special aspect of the feco partition wall system is the way in which the wall panels are connected to the substructure.

In the patented feco clamping system, wall panels are clipped into the system uprights using the full-length, reverse-mounted steel retaining rails. This method provides more stability, more accurate joint alignment and increased sound insulation values compared to structures with only point fixture. The wall panels contribute to high static strength across their entire surface area, while the slim system uprights reduce the transmission of sound waves.

Wall heights of up to 5,000 mm, sound insulation values up to $R_{w,P} = 52$ dB, and fire resistance ratings up to 90 minutes with a uniform wall thickness of 105 mm are possible, as proven by numerous test reports, test certificates and approvals.

Please contact us for more information on how we can individually meet your specific requirements.



Frameless
glass visions.

fecostruct.

Frameless flush structural glazing.

The frameless flush fecostruct structural glazing meets exclusive design requirements.

Transparency and flushness are an expression of current architecture. In fecostruct they find their structural counterpart. Especially impressive is the glueing of the frameless flush glazing onto the concealed aluminium frame, which is only 20 mm wide. The result is completely level glass walls, which are fascinating and yet so natural.

Clean on arrival - factory cleaning of the inner pane surfaces

What is special about feco double glazing is that the panes are produced as closed glass elements in clean manufacturing conditions, transported to the construction site and assembled, with no need to clean the spaces between the panes after delivery since the inner pane surfaces are already clean. However, fecofix and fecostruct monoblock glass elements can still be opened for inspection purposes without having to be removed thanks to the carefully thought-out detail design.



Product features

- Flush single-pane or double glazing
- Frameless structural glazing construction method
- Glueing of glass panes onto aluminium base frame
- Width of glued area only 20 mm all-around
- Wall thickness 105 mm, flush with solid wall and door elements
- Permanent, UV-resistant, surface-homogeneous glueing
- Glass frame without a central joint in the double-glazing cavity
- Prefabrication of the double-glazed elements ensures the cleanliness of internal glass surfaces
- Venetian blinds can be centrally integrated in the double-glazing cavity
- Base frame from anodised aluminium, powder coated in RAL or veneered in natural oak, adhesive aluminium coloured or black
- Use as fall-proof glazing possible
- Sound insulation test certificates for glass wall $R_{w,P} = 39$ dB up to 47 dB
- Sound insulation test certificates for top glazing wall $R_{w,P} = 37$ dB up to 49 dB



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