

iQ Structural

Double glass partition wall with O-joint



Wall Systems

Double glazing for maximum sound insulation

The sleek, minimalistic look of the QbiQ profiles is maintained in the design of the iQ Structural system wall. In addition, the sound insulation is further increased. The result is a futuristic full-glass wall in double glazing for even better acoustic qualities. The connection to doors and other elements meets high technical and aesthetic standards.

Partition Thickness

iQ Structural can be made in 3 different partition thicknesses. This is necessary in case of extra high sound installed requirements or if required by structural conditions. iQ Structural is available in wall thicknesses of 78 mm, 100 mm or 125 mm. (3.07", 3.94" or 4.92")

Glass Thickness

It is possible to equip iQ Structural 100 with different glass thicknesses. This double glazing system can combine 6.6.a.2 etc glass panerls within one partition. To be used for instance as a fall-proof solution at an atrium of stairwell and still also achieve high sound insulation requirements.

Single Glazing

iQ Structural can also be made with acoustically laminated glass on one side, if this is desired for aesthetic reasons.

iQ Structural can be perfectly combined with other QbiQ wall systems.



extra.qbiqwallsystems.com/iq-structural

Circular

QbiQ partitions are designed with flexibility and adaptability in mind, in a way that they can be easily installed, moved and reused. This extends the lifecycle of the walls and reduces the need for new materials.

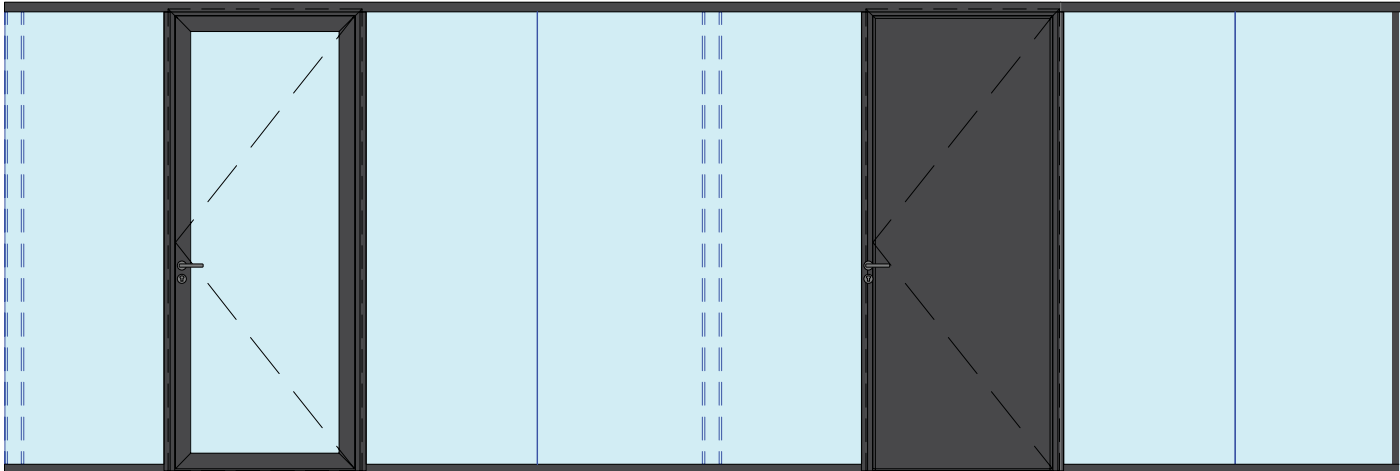
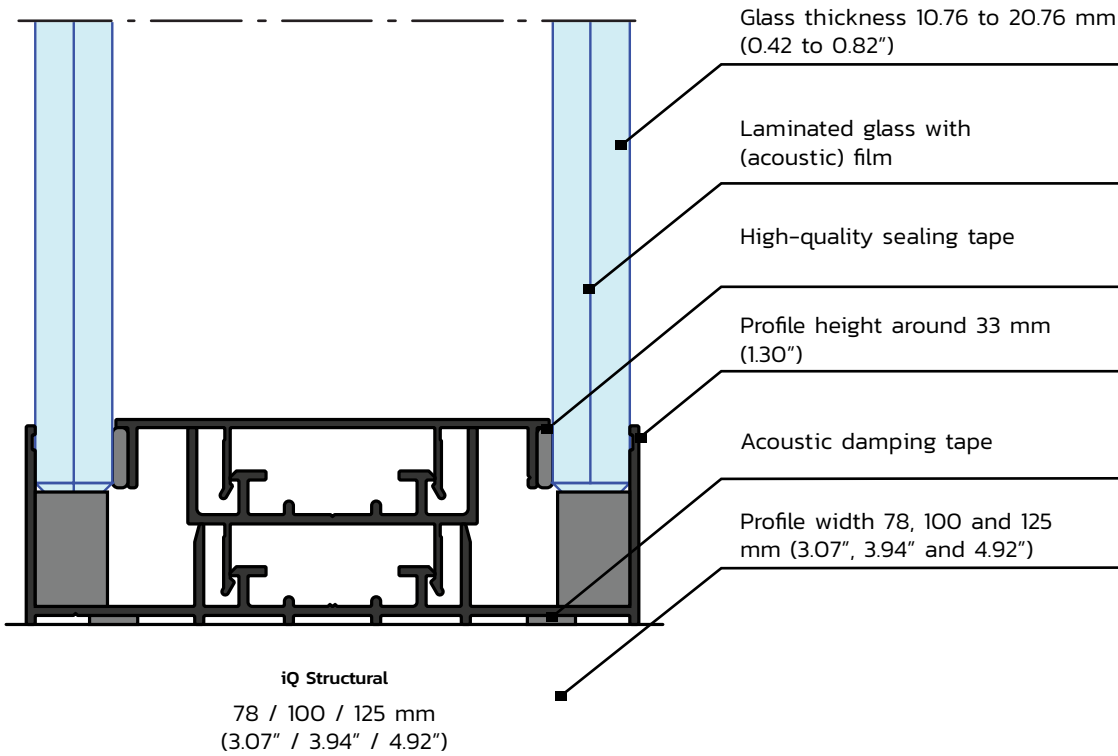
When producing our curtainwalls, user health and environmental safety are top priorities. We only process healthy materials that contribute to an improved study and/or working environment. Transport movements are kept to a minimum. And our production process is organised as efficiently as possible to minimise waste of raw materials and energy.

Cradle to cradle Silver

Our systemwalls contribute to a sustainable environment and are certified by an accredited assessor for the international Cradle to Cradle Certified® programme. The products and underlying production processes have been assessed on the aspects: Material Health, Material Reutilisation, Renewable Energy, Water Stewardship and Social Fairness. This certification guarantees that our walls are designed for re-use and circularity, that energy is used responsibly, that we utilise labour in a (socially) responsible way and that our products contain proven non-toxic substances.

With our Cradle to Cradle Silver certified concepts, we do not only offer a sustainable solution for a modern and pleasant learning and working environment, but we also contribute to the circular economy.





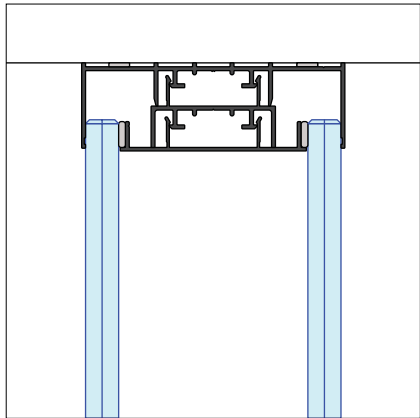
iQ Structural wall view

iQ Structural – Specifications

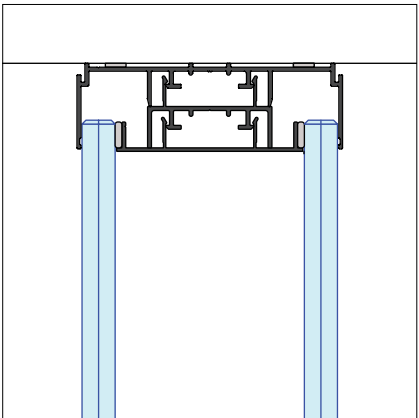
Description	Double glass partition wall with O-joint
Certification	Cradle to Cradle Silver
Partition Thickness	78, 100 and 125 mm (3.07", 3.94" and 4.92")
Sound reduction	Rw=35dB tot Rw=56dB
Wall Sections	Glass
Glazing	Single, double, or triple glazing, optionally with acoustic damping, thickness 10.76 to 20.76 mm (0.42" to 0.82"), different glass thicknesses possible in one wall
Modulation	900 mm (35.4"), project-specific dimensions possible
Section joins	Transparant O-joint
Head track	Flat, aluminum, height 33 mm (1.30"), optionally with picture hanging system
Floor track	Flat, aluminum, height 33 mm (1.30")
Door frames	Aluminum frame with single and/or double rebate
Doors	<ul style="list-style-type: none">Aluminum frame doors with single or double acoustic laminated or tempered glass and with single or double rebateClosed steel doorsWooden doors with an HPL or veneer finishTempered glass doors
Door mechanism	Single or double Swinging, sliding or pivot door(s)
Color	<ul style="list-style-type: none">Coated in a RAL color with a gloss level of 30% or 70% or fine structureAnodized



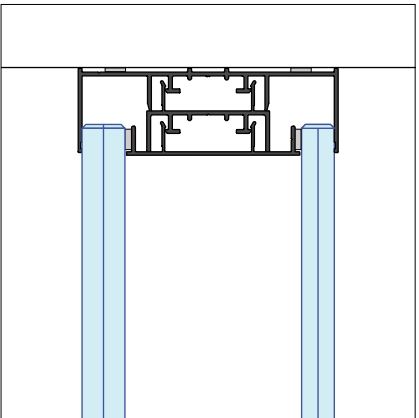
BASIC DETAILS



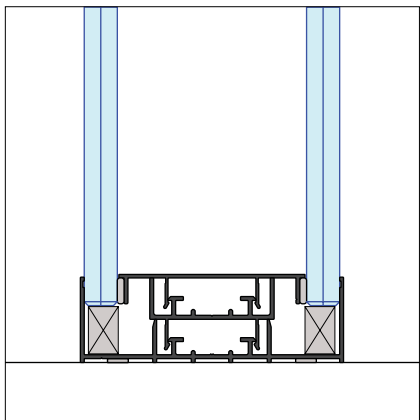
iQ Structural
Head track



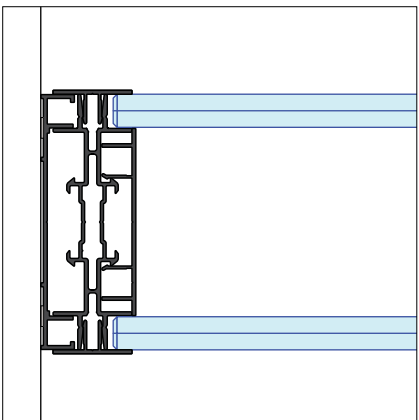
iQ Structural
Head track with picture hanging system



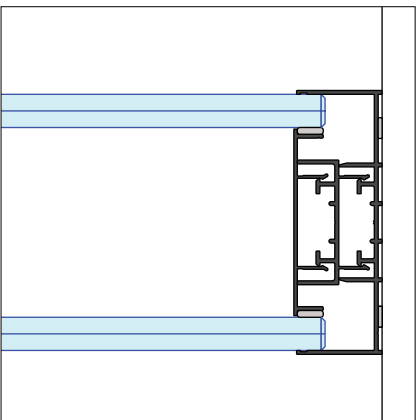
iQ Structural 100
Combination of 16 and 12 mm glass (0.63" and 0.47")



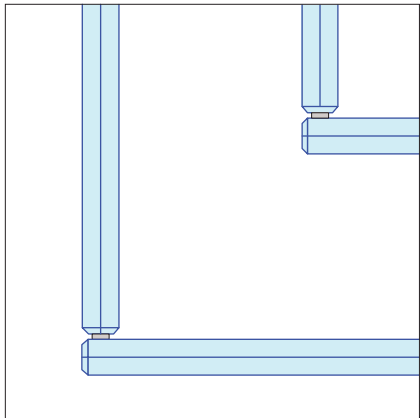
iQ Structural
Floor track



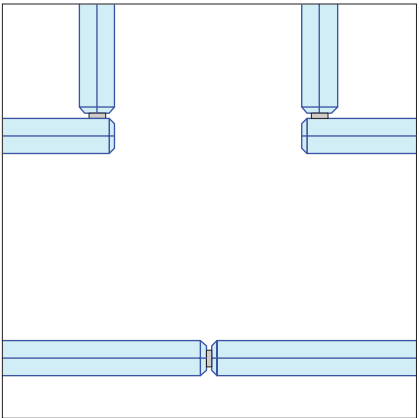
iQ Structural
Wall connection
1 window next to frame



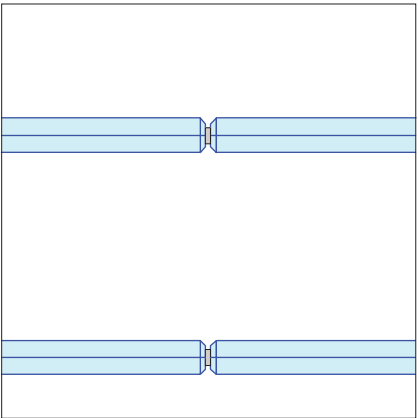
iQ Structural
Wall connection 2 or more windows next to frame



iQ Structural
Transparent 90° corner



iQ Structural
T-joint



iQ Structural
Glass connection with O-joint



Door assortment

The door is an essential part of the system wall, as it not only provides access to different spaces, but also contributes to aesthetics and functionality. Doors can be made of different materials such as wood, tempered glass, laminated glass in a frame and steel.

For optimal transparency, glass doors are an obvious option. QbiQ aluminium framed doors are fitted with one or two layers of acoustic laminated glass. The laminated glass (6.6.a.2 or 2x 4.4.a.2) improves the acoustic performance of the frame door. For a partition of 100 mm (3.94"), even wall-thick framed doors are possible. In addition to framed doors, hard-glazed or solid doors are also available in HPL, wood or steel.

Almost every QbiQ door can be fitted with one and in some types two drop seals. When closing the door, a rubber seal at the bottom comes out of the door and presses itself onto the floor. This prevents sound from moving under the door. To further improve the acoustic performance, QbiQ has glass and closed doors with a double gap seal.

Finally, the thickness of the door compared to the thickness of the wall affects the aesthetic appearance. When the glass or closed panels of the wall continue in line with the glass or closed panel in the frame door, this creates a sense of calm in the interior to be created.

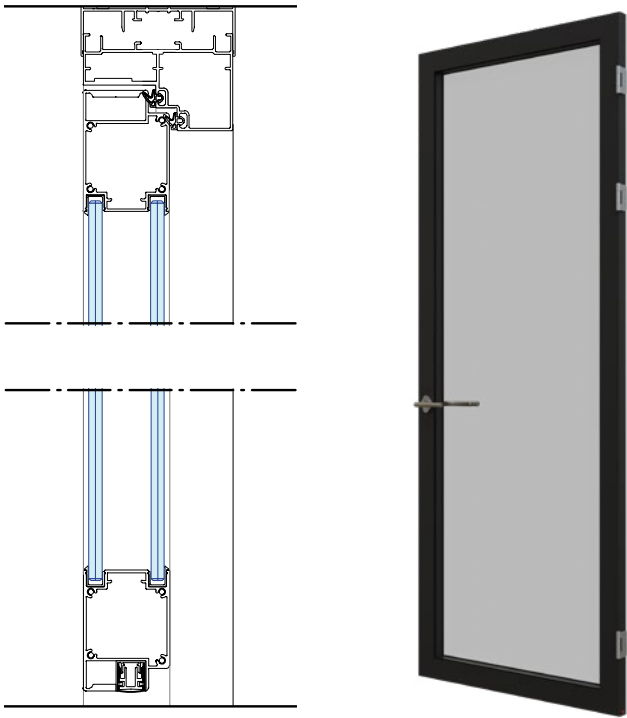
QbiQ provides the perfect door for every wall.



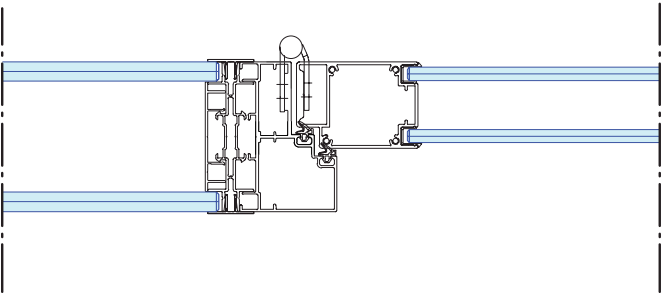
KDD57D + DK100D

Framed door KDD57D with double glazing and double stop, with frame DK100D.

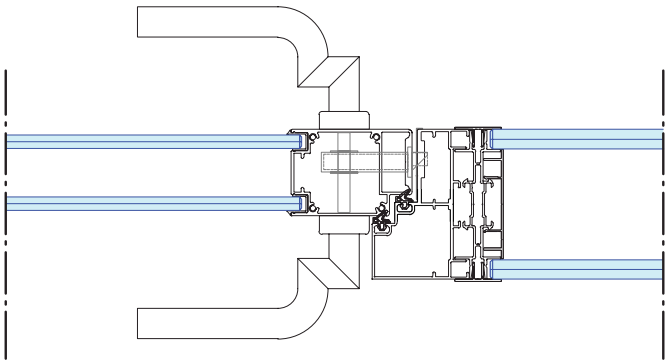
- Excellent sound insulation
- 2x layered glass, 4.4.2 / 4.4.a2
- Double rubber seal
- Drop seal



KDD57D + DK100D
vertical section



KDD57D + DK100D
horizontal hinge side section

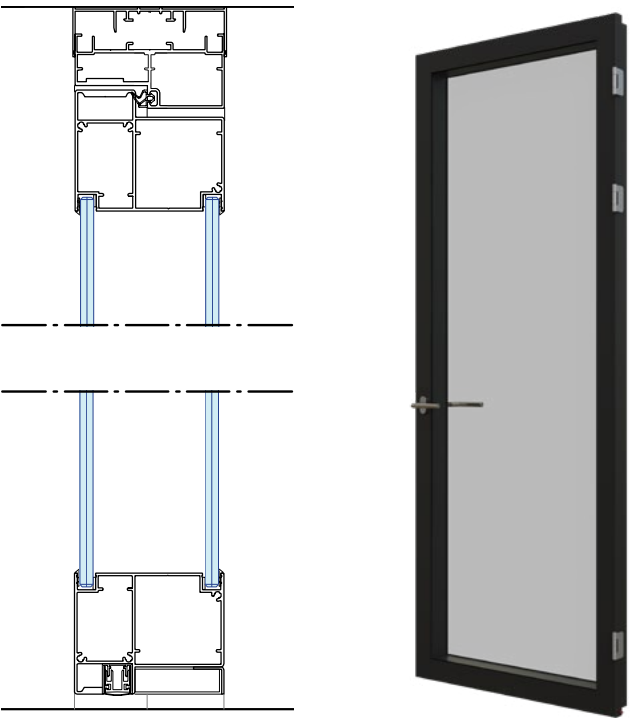


KDD57D + DK100D
horizontal section lock side

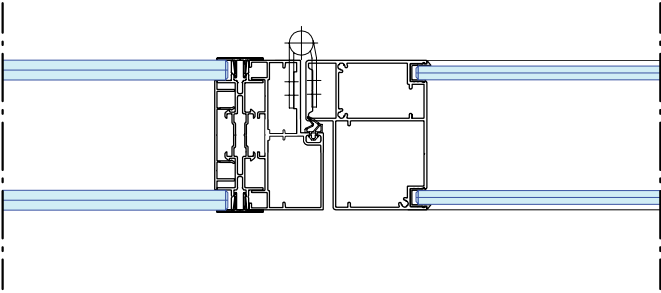
KDD80-100 + DK100

Flush Framed door KDD80-100 with frame DK100.

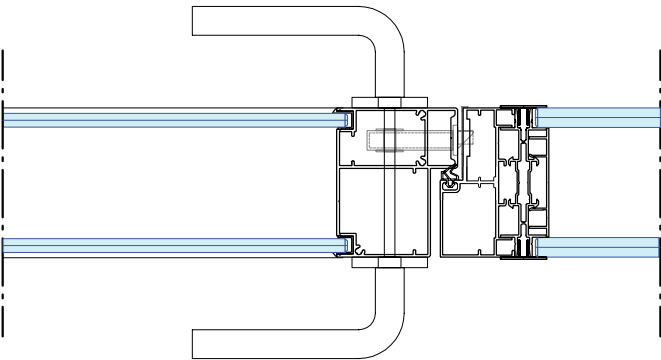
- High sound insulation
- 2x layered glass, 4.4.2 / 4.4.a2
- Rubber seal
- Drop seal



KDD80-100 + DK100
vertical section



KDD80-100 + DK100
horizontal hinge side section

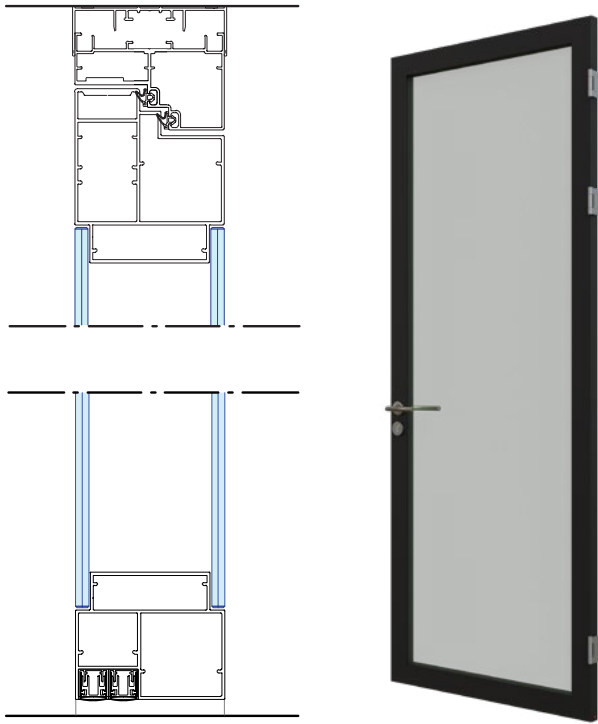


KDD80-100 + DK100
horizontal section lock side

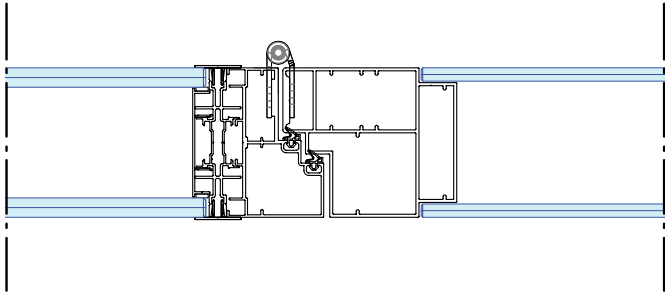
KDD90F + DK100D

Flush framed door KDD90F with double glazing and double stop, with frame DK100D.

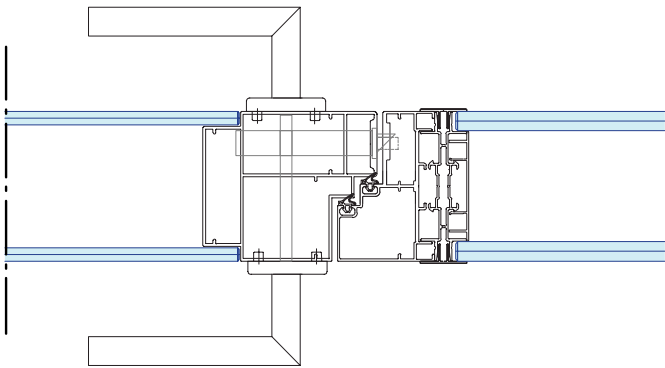
- Excellent sound insulation
- 2x layered glass, 4.4.2 / 4.4.a2
- Double rubber seal
- Flush
- Single or double drop seal



KDD90F - DK100D
vertical section



KDD90F - DK100D
horizontal hinge side section



KDD90F - DK100D
horizontal section lock side



Synergy with 33 mm (1.30”) profile height

Characteristic of QbiQ system walls is the profiling that is always consistent in its height of only 33 mm (1.30”) in appearance. Floor, wall, and ceiling profiles are identical in appearance. The use of these minimalist profiles enhances the feeling of transparency.

Synergy

The 33 mm (1.30”) profile is consistently applied to all QbiQ wall systems. This means that different types of QbiQ (glass) walls can be combined perfectly and with optimal synergy.

Where different wall types meet, a near-magical connection is created. The flat plinth (non-receding) creates seamless profile connections, which contributes to the acoustic performance.

Whether it is a T-, corner- or frame connection; QbiQ always ensures the optimal connection between different wall types.

Solid walls

The flat profiles with a height of 33 mm (1.30”) are also applied in solid wall systems. This means that the profiles of the solid and glass panels in a wall merge, which enhances the aesthetic appearance and also improves the acoustic performance.



Design support

Designing a project or furnishing a space can be a challenging task. Aesthetic wishes of the architect must be combined with requirements in terms of sound insulation and absorption: “what about dB values in a real-life situation?” Also when meeting the specified stated fire and/or smoke resistance requirements; how is the report of the fire inspector translated into the right, certified materials? And then to establish that there are multiple solutions to meet the requirements. That is why there is the ‘iQ Atelier’ for all QbiQ wall systems! In a personal meeting, you get the advice you need to optimize your design in every phase of the process.

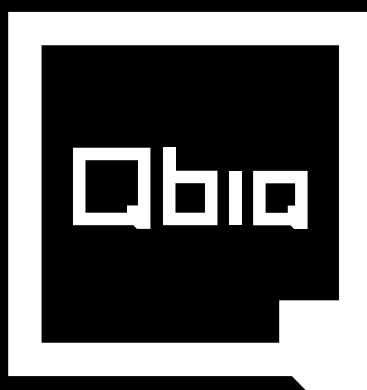
BIM

In addition to providing the details of the QbiQ profiles and connections (both in 2D and as BIM objects), we provide the right certificates, samples and mock-ups to support you in your dialogues with clients and consultants. Whether you are an architect, interior designer, facility manager or end user, our team is ready to support you in the design of offices, schools, healthcare facilities or logistics facilities . We listen to your needs, review the specifications, and offer creative solutions that fit perfectly. That is what our wall systems are perfectly suited for!

Do you want to get in touch?



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Wall Systems

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