

With the new 3 - 6 - 9 Partitions System, Estel has created a unique solution for Aesthetics, Functionality and Sound Insulation.

The "3" single-glass wall (W 32 mm - 11/4") meets soundproofing requirements of up to 36 decibels at the lowest possible cost, without sacrificing the same functions as the 6 and 9 Partitions' design system.

Partition "6" double-glass wall (W 64 mm - 21/2") increases acoustic performances and reaches the highest aesthetic level, thanks to the 64 mm-thick profiles.

Wall "9" meets the most advanced acoustic insulation requirements and allows an excellent integration of sophisticated technical elements such as sliding doors within the wall thickness (W 93 mm - 35/8").

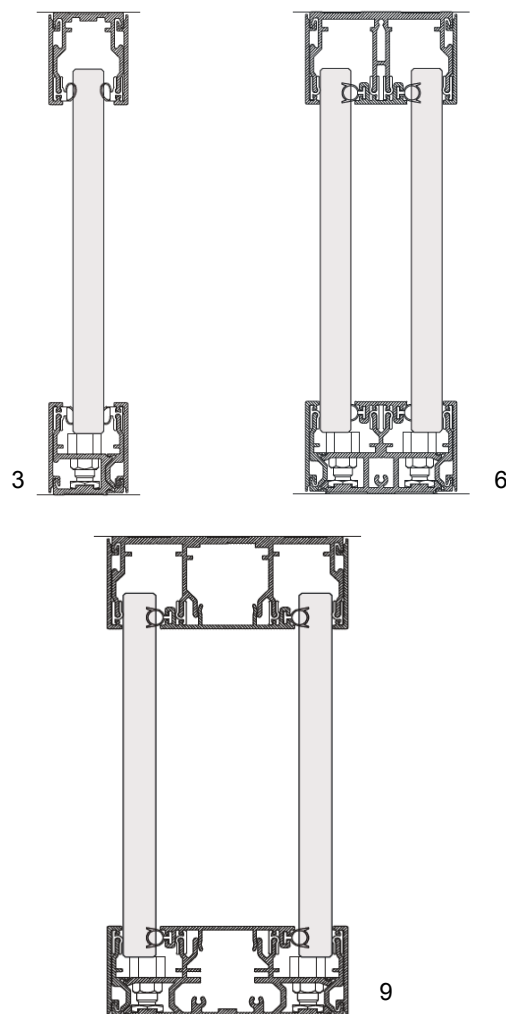
The three groups are coherent in technical, architectural and finishing details, giving to projects the necessary design uniformity. They can be used at the same time, one aside the other, without interruption, maintaining internal and external co-planarity, depending on design requirements.

3 - 6 - 9 Partition System is highly customizable, by using elements with different thickness and finishing at the same time. The system has a wide range of height adjustment (up to 25 mm with 64 mm upper profiles), meant to reduce alignment errors of building's floors and ceilings.

The system is easy-to handle and to install, and gives a wide range of technical solutions to manage vertical misalignments (up to 37,5 mm with 64 mm profiles).

In addition to the classic partitions with full glass or melamine panels, 3-6-9 is also available in the following versions:

- Mixed partitions (two heights available, with bottom solid panels and top glass panels);
- «Cartesio» single-glass partition with decorative profiles;
- partitions 3 & 6 «Offset», with single glass panel mounted on profiles 6 & 9;
- Partition «9 without profiles».



MAIN FEATURES**partition «3» - single-glass partition;**

floor profiles W 32 mm x H 38 mm;

ceiling profiles W 32 mm x H 38 mm or W 32 x H 64 mm;

**partition «6» - double-glass partition; single-glass
“offset” partition; solid double-panel partition;**

floor profiles W 63 mm x H 38 mm;

ceiling profiles W 63 mm x H 38 mm or W 63 x H 64 mm;

**partition «9» - double-glass partition; single-glass
“offset” partition; solid double-panel partition; solid
double-panel partition “without profiles”;**

floor profiles W 93 mm x H 38 mm;

ceiling profiles W 93 mm x H 38 mm or W 93 x H 64 mm;

HEIGHT TOLERANCEWith ceiling profiles h 38: **± 12,5 mm**With ceiling profiles h 64: **± 25 mm****PROFILES FINISH**

Aluminium structural profiles are available in different finishes:

Anodized Aluminium; Polished Aluminium; painted “Matt Black”, “Carbon Glacé” or “White Snow”;

GLAZED PARTITIONS

clear tempered glass:

th.10 mm;

th.12 mm;

clear laminated glass:

th.10,38 (5 mm + 0,38 mm PVB + 5 mm);

th.12,38 (6 mm+0,38 mm PVB+6 mm);

th.16,38 (8 mm+0,38 mm PVB+8 mm);

clear laminated acoustic glass:

th.10,76 (5 mm+0,76 mm PVB+5 mm);

th.12,76 (6 mm+0,76 mm PVB+6 mm);

th.16,76 (8 mm+0,76 mm PVB+8 mm);

clear tempered glass th.10 or 12 mm, with silk screen decoration (only for ceiling profiles H 64).

SOLID PARTITIONS

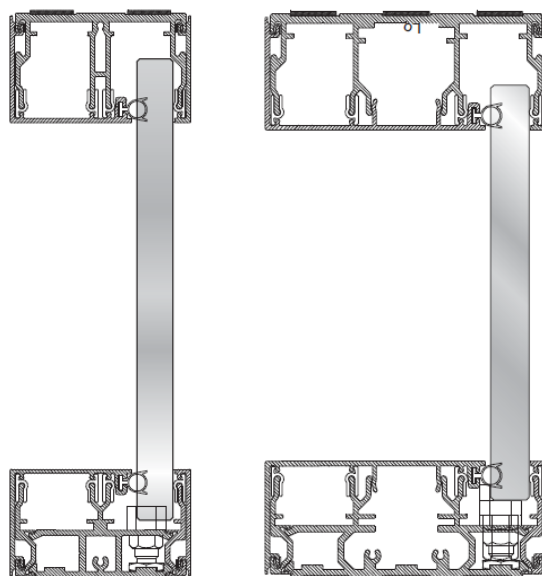
MELAMINE 18 mm (¾ ") thk. panel of wood particles (UNI EN 309) bonded with E1 type adhesives mixtures with low formaldehyde content and hot pressed, covered with melamine-resin sheets, anti-scratch and anti-glare. Panels are edged with a special rigid PVC rim provided with soft edge to ensure sealing and acoustic insulation.

Sablé LACQUERED 18 mm (¾ ") thk. panel of wood particles (UNI EN 309) bonded with E1 type adhesives mixtures with low formaldehyde content and hot pressed, covered with printed and coated sheets. The edge is in coated ABS matching the color of the panel. Coating is made with transparent polyurethane and acrylic products.

VENEER 18 mm (¾ ") thk. panel of wood particles (UNI EN 309) bonded with E1 type adhesives mixtures with low formaldehyde content and hot pressed. The panels are veneered with 6/10 wood sheet thick, edged in veneer matching the panel finish.

Pareti «OFFSET»

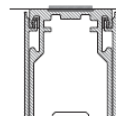
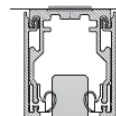
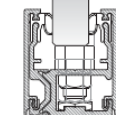
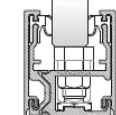
Single-glass partition mounted on «6» or «9» profiles



Ceiling profiles

H38

H64

Floor
Profiles
H38

PARTITION «3»

Single-glass partition with Aluminium profile W 32 x H 38 mm. Partition is available also with ceiling profile H 64 mm, that allows a higher tolerance. Gaskets and fast mounting covers ensure a high acoustic performance.

CONFIGURATIONS

Partition type «3» is available in the following configurations:

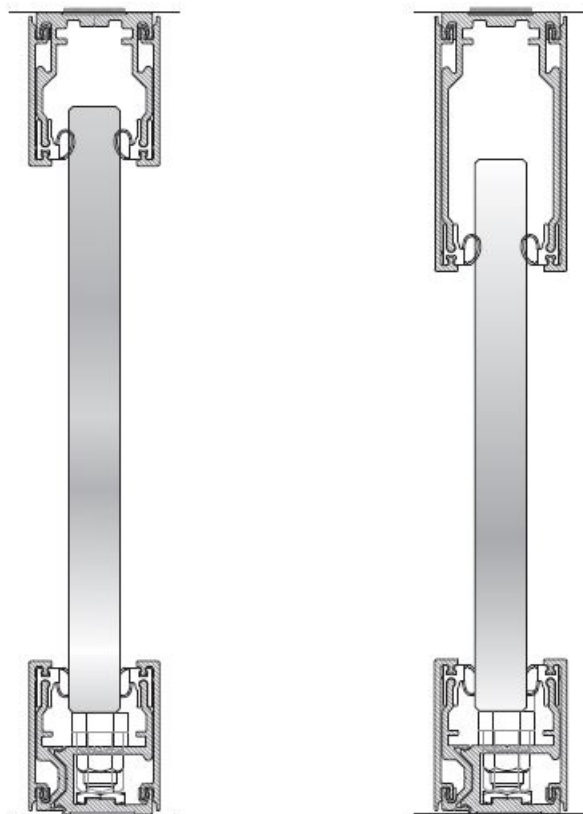
- Single-panel glazed partition ;
- Mixed partition;
- «Cartesio» glazed partition with horizontal decorative profiles;

HEIGHT TOLERANCE

With ceiling profiles h 38: $\pm 12,5$ mm

With ceiling profiles h 64: ± 25 mm

Joints between glass panels are made with transparent PMMA profiles.



Partition «3»

Partition «Cartesio»

Partition «Cartesio»



PARTITION «6»

Double-panel partition with Aluminium profile W 63 x H 38 mm. Partition is available also with ceiling profile H 64 mm, that allows a higher tolerance. Gaskets and fast mounting covers ensure a high acoustic performance.

CONFIGURATIONS

Partition type «6» is available in the following configurations:

- Standard double-panel solid partition with gap filled with rock-wool panels for sound insulation;
- Standard double-panel glazed partition;
- Mixed partition (bottom solid panels, top glass panels);
- «Offset» partition with single glass panel mounted on 63 mm profile;

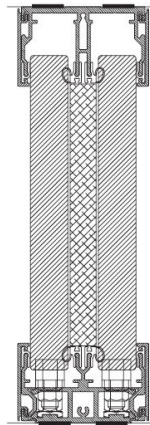
HEIGHT TOLERANCE

With ceiling profiles h 38: $\pm 12,5$ mm

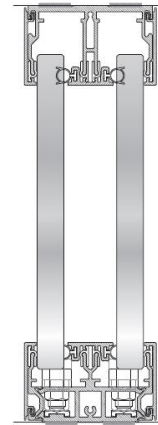
With ceiling profiles h 64: ± 25 mm

Joints between glass panels are made with transparent PMMA profiles. Solid panels are mounted side by side without joints.

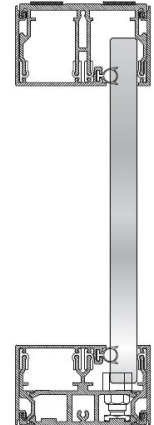
Solid partitions always include rock-wool panels in the gap to improve sound insulation.



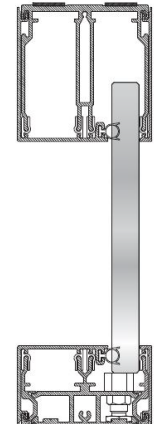
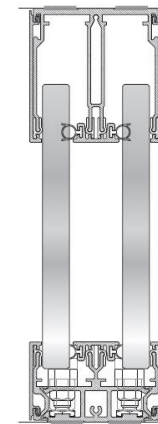
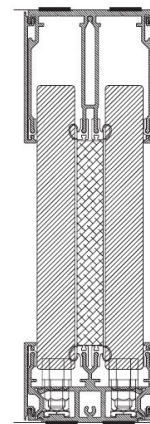
«6» solid
partition



«6» glass
partition



«6» offset
partition



PARTITION «9»

Double-panel partition with Aluminium profile W 93 x H 38 mm. Partition is available also with ceiling profile H 64 mm, that allows a higher tolerance. Gaskets and fast mounting covers ensure a high acoustic performance.

CONFIGURATIONS

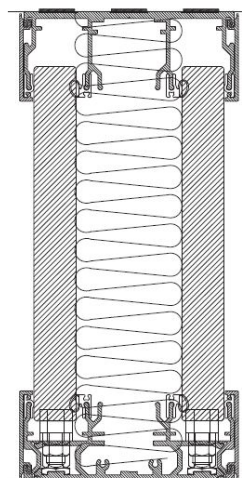
Partition type «9» is available in the following configurations:

- Standard double-panel solid partition with gap filled with rock-wool panels for sound insulation;
- Standard double-panel glazed partition;
- Mixed partition (bottom solid panels, top glass panels);
- «Offset» partition with single glass panel mounted on 93 mm profile;
- Partition «without profiles»;

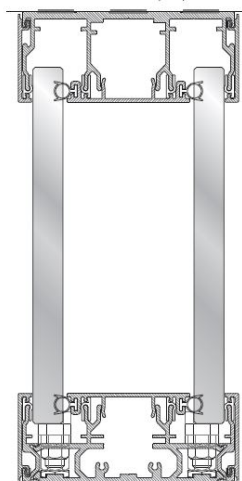
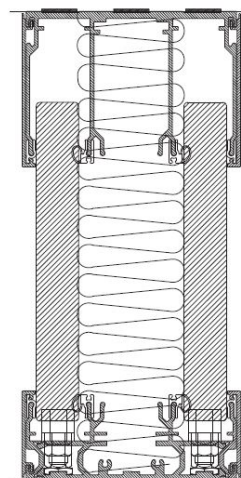
Partitions (except partition «without profiles») are available with ceiling profiles H 38 mm (ensuring tolerance in height up to $\pm 12,5$ mm) or with ceiling profiles H 64 mm (ensuring tolerance in height up to ± 25 mm).

Partition without profiles

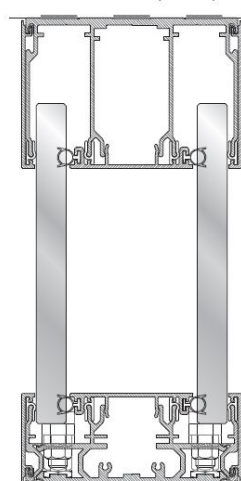
Solid partitions always include rock-wool panels in the gap to improve sound insulation.



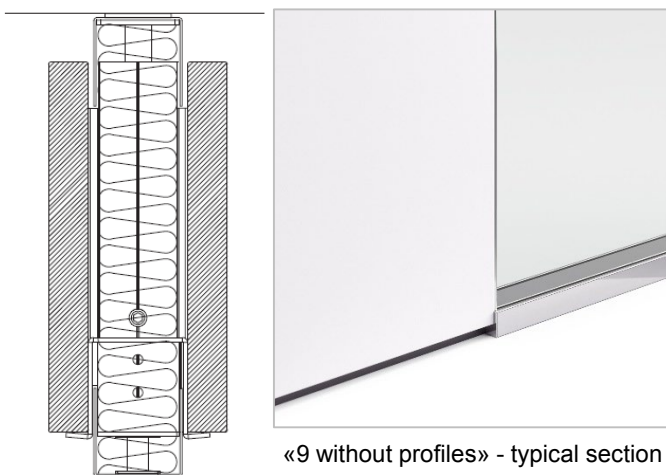
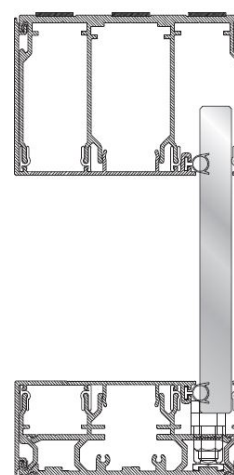
«9» solid partition



«9» glazed partition



«9» offset



«9 without profiles» - typical section



Partition type «9»

HINGED DOORS

Hinged doors are designed to be fully integrated with partitions, thanks to the perfect complanarity of profiles and glazed panels. The design of external pivot hinges emphasizes the aesthetics of the doors without compromising functionality.

Thanks to a double gasket, positioned all along door frame, and to a stop-seal gasket at floor level, the door has a high sound-insulation performance.

For all partition types are available glazed hinged doors, and solid doors, with one or two leaves; for partition «3» is also available the unframed glazed door.

Door types for partitions «6» e «9» always include the automatic door closer integrated inside the door leaf frame; on the door for partition «3», the door closer is mounted externally and is available as an optional.

Standard handle has a Satin S/Steel finish; it's possible to request handles in different finish (with surcharge).

Glazed door type «9», with door closer integrated inside the frame and pivot hinges.



Standard handle for hinged doors

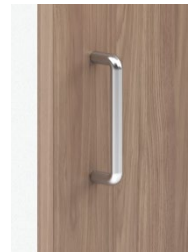
Glazed door type «3» – pivot hinge detail



SLIDING DOORS

For «3 - 6 - 9» Partition System, a wide range of sliding doors is also available: for Partitions types «3» and «6», the sliding door is external, while for Partition type «9» the sliding door is internal to the thickness of the wall, and door leaf moves inside the gap of the partition. For all partition typea, are available glazed or solid sliding doors, with one or two leaves.

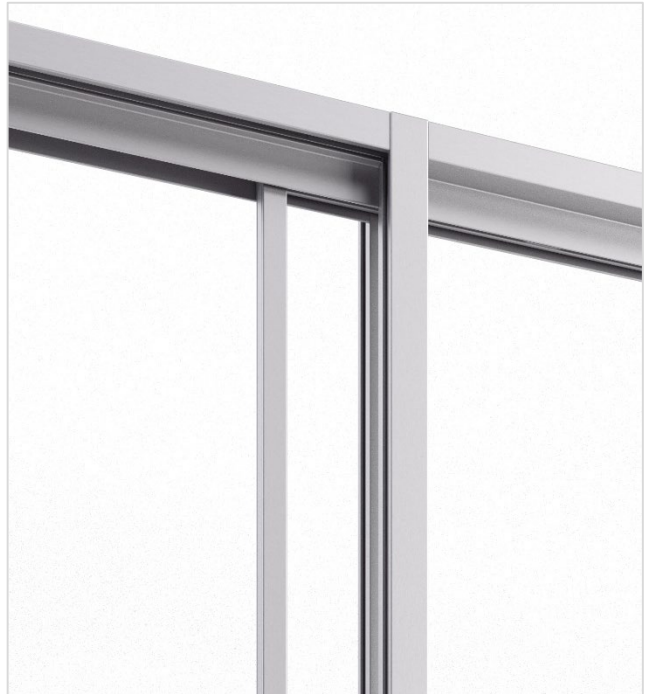
Standard handle is C-shaped with Satin S/Steel, and is also available a vertical handle with floor lock (with surcharge). All sliding doors are equipped with a top profile that hides the sliding mechanism, and is easily accessible for regulation and maintenance.



Sliding Door type «6» with C-shaped handle



Top profile (door type «3» e «6»)
Double glazed sliding door type «9»



Glazed sliding door type «9» - detail

NODES

All node types are available for all the partitions (90°; 3-way node; 4-way node); all nodes to connect any group of partitions to each other are available.

Moreover, a series of nodes to connect Partition «3-6-9» to «Walltech» partition, enhancing the possibility of customization of the projects.

For partition «3» a curved corner module is also available (radius 100 cm).

TECHNICAL MODULES

Technical modules for partitions «3» and «6» have a thickness of 63 mm, while technical modules of partition «9» has a thickness of 93 mm; modules are available in melamine finish, lacquered finish, wood veneer, metal; the dimensions of the profiles for technical modules are the same of the profiles of the partitions. Wall boxes for electrical connections can be integrated into technical modules of partition type «9».



Node 90°

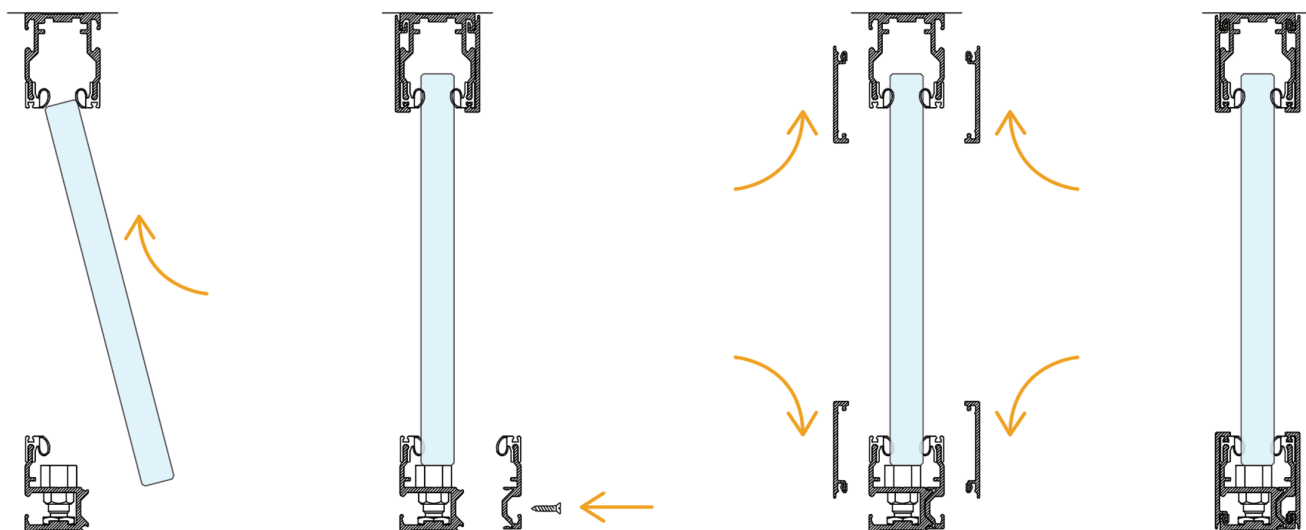
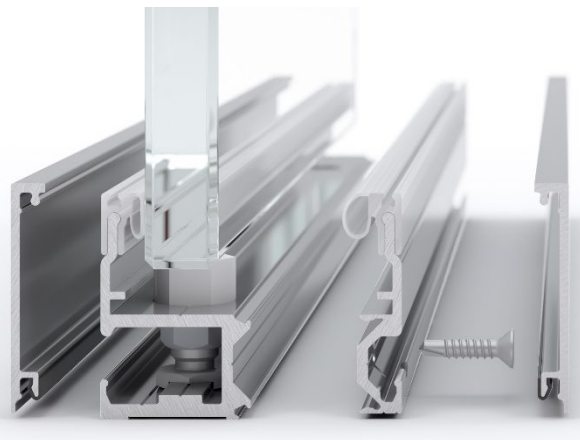


Technical module «9»



INSTALLATION

Elements of «3-6-9» partitions are designed to make installation easy and fast. After the installation of base and top profiles, glazed or solid panels can be put in place, and then blocked by a screwed profile. Panels can be correctly regulated by means of regulation devices on the base profiles. Finally, process is completed with the click-mount installation of the external finishing-covers.



CERTIFICATIONS**LEED**

Following the analysis of the main environmental features, based on protocol LEED NC - rev.4, the independent consultant Quality Net srl has verified that «3-6-9» partition system can contribute to the following LEED credits:



CREDITO LEED NC 2009	Points	Title	Feature
MR c 2	1 - 2	Construction Waste Management	Packaging collection
MR c 4	1 - 2	Recycled content	Glass and chipboard with recycled content
MR c 7	1	Certified Wood	FSC® certification
QI c 4	1 - 4	Low-emitting materials	Dry laying, CARB phase 2 opaque walls
QI c 8	1 - 2	Daylight and Views	Transparent glass walls, light transmission values in the technical data sheets

CREDITO LEED ID+C V 4	Points	Title	Feature
MR c 2	1 - 4	Interior Life-cycle impact reduction	Flexibility and ease in reuse
MR c 4	1 - 2	Building product disclosure and optimization - sourcing of raw materials	Recycled content in glass, in chipboard; FSC® certified wood; supplier selection policy
MR c 6	1 - 2	Construction and demolition waste management	Packaging collection
EQ c 2	1 - 3	Low emitting Materials	Dry laying, CARB phase 2, CDPH, AgBB and other regulations opaque walls
EQ c 7	1	Quality Views	Transparent glass walls, light transmission values in the technical data sheets
EQ c 8	1 - 2	Acoustic Performance	Sound insulation tested for the various types of solutions

UNI EN ISO 717-1 - Acoustic Performance

PARTITION	R _w	No Report Test
UNI EN ISO 10140-2:2010 e UNI EN ISO 717-1:2013		
wall 3 laminated glass 551	38	208-2018-IAP
wall 3 laminated glass 661	39	207-2018-IAP
wall 6 double laminated glass 551	43	209-2018-IAP
wall 6 double laminated glass 661	45	210-2018-IAP
Wall 6 double laminated acoustic glass 661A	47	205-2018-IAP
Wall 9 double laminated glass 551	44	206-2018-IAP

ISO 7892 - Vertical building elements - Impact resistance tests

Test carried on glass partitions type «3» «6» and «9». No penetration, no collapse, no dangerous breaks.