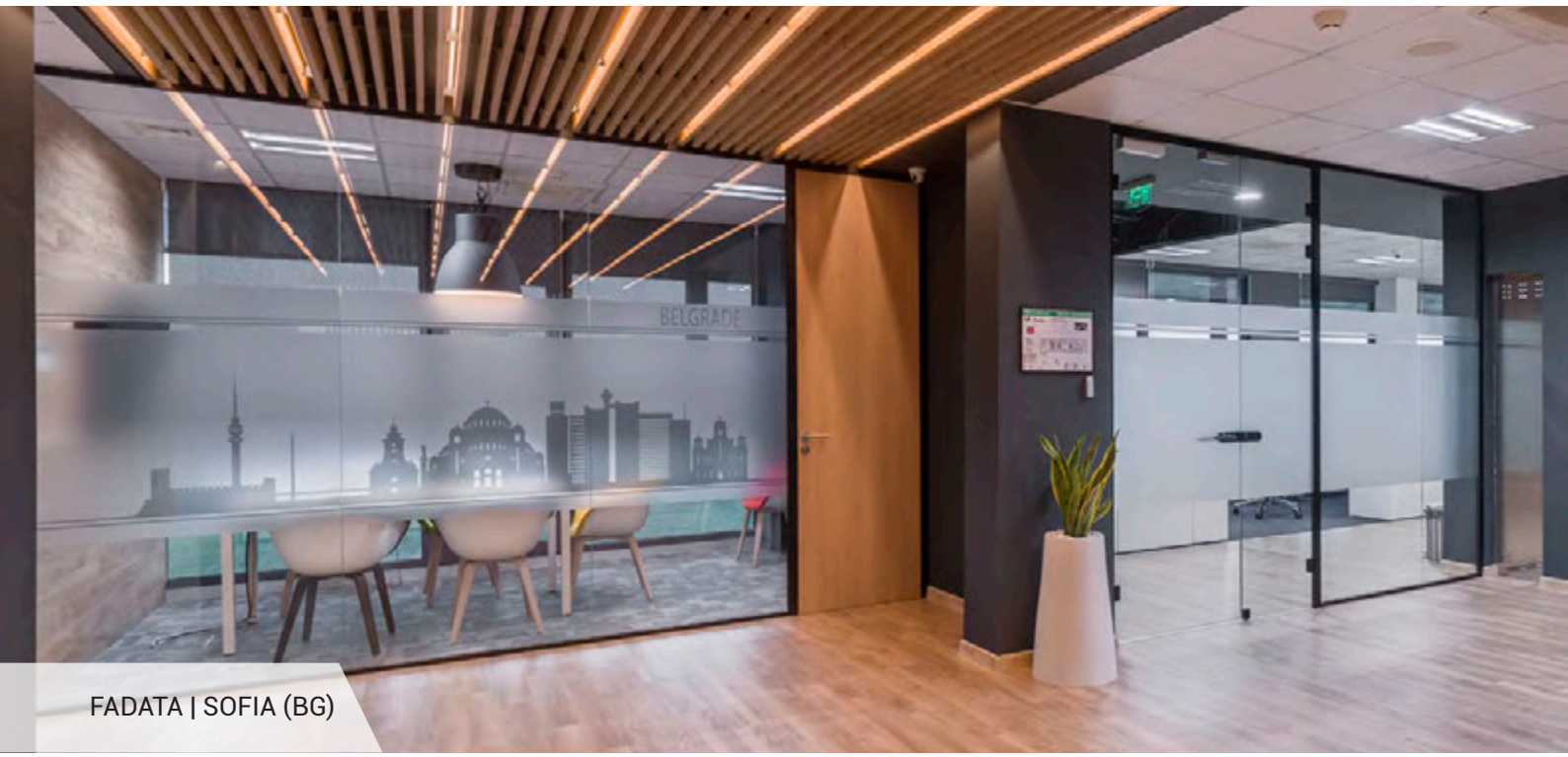
GSW Office doors

GSW Office doors

Doors are an integral part of the GSW Office systems. They are not only characterised by attractive appearance, but they also guarantee high acoustic parameters.

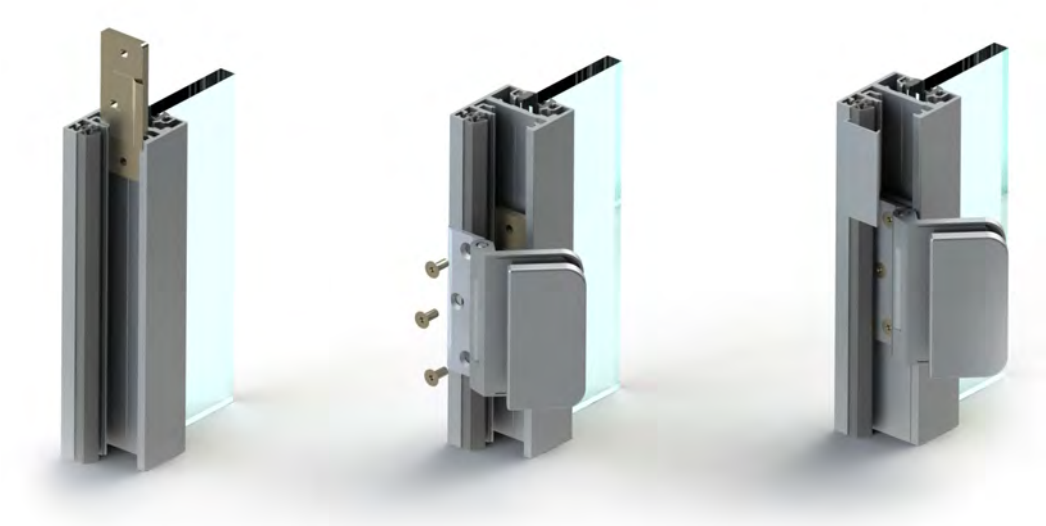
To allow mounting doors in any of the walls, system provides many variants of door frames adapted to one and two-pane glass walls as well as to the traditional partition walls. An important advantage of the listed solutions is their compatibility with all available types of GSW Office doors – glass, aluminium-glass or wooden ones. Therefore, the investor is free to select any door across the floorplan.



FADATA | SOFIA (BG)

EasyFix

EasyFix is a characteristic for the entire GSW Office family convenient way of installing accessories, especially the hinges and the strike plate of the lock. The key premiss is to eliminate the need to prefabricate profiles thanks to the sliding assembly elements.



Acoustic insulation

Similarly to the walls in the GSW Office system family, doors also were subjected to laboratory tests determining the level of airborne sound insulation. Tests covered all types of doors used in the Glass System door frames. Depending on the regulations in different countries, designs can also include requirements relating to R_{A1} and $R_{A1,R}$ parameters:

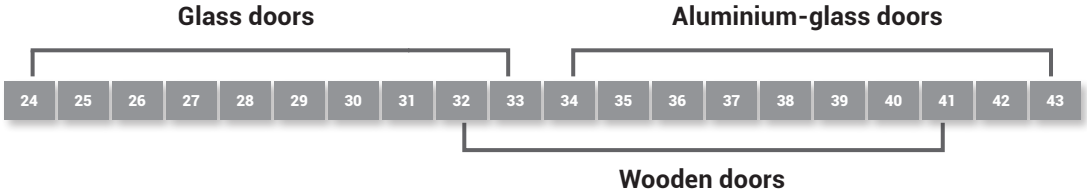
$$R_{A1,R} = R_{A1} - 2\ dB$$
$$R_{A1} = R_w + C$$

Acoustic requirements according to PN-B-02151-3:2015-10* - doors

Type of room	Parameter	dB value
Office buildings		
Office rooms	$R'_{A1,R}$	≥30
Rooms for confidential talks	$R'_{A1,R}$	≥40
Conference rooms	$R'_{A1,R}$	≥35

* Polish norm concerning building acoustics, noise protection in buildings and requirements for acoustic insulation of partitions in buildings

The ranges of R_w parameter levels for GSW Office doors*:



*detailed lists of acoustic insulation parameters have been included in tables next to the description of individual doors

Strength

Quality and strength tests have particular importance for doors. Therefore, the GSW Office doors underwent a series of tests in the Building Research Institute. The most important one out of these in terms of application is the test of mechanical strength, the results of which were classified according to standard EN 12400. Obtained results show that it is possible to use GSW Office doors in places of frequent use.

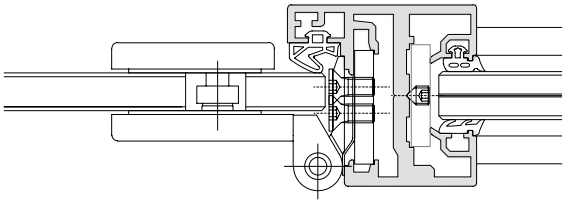
Class	Conditions of use	Number of cycles
0	-	-
1	occasional	5 000
2	light	10 000
3	infrequent	20 000
4	moderate	50 000
5	normal	100 000
6	**frequent**	**200 000**
7	heavy	500 000
8	very heavy	1 000 000

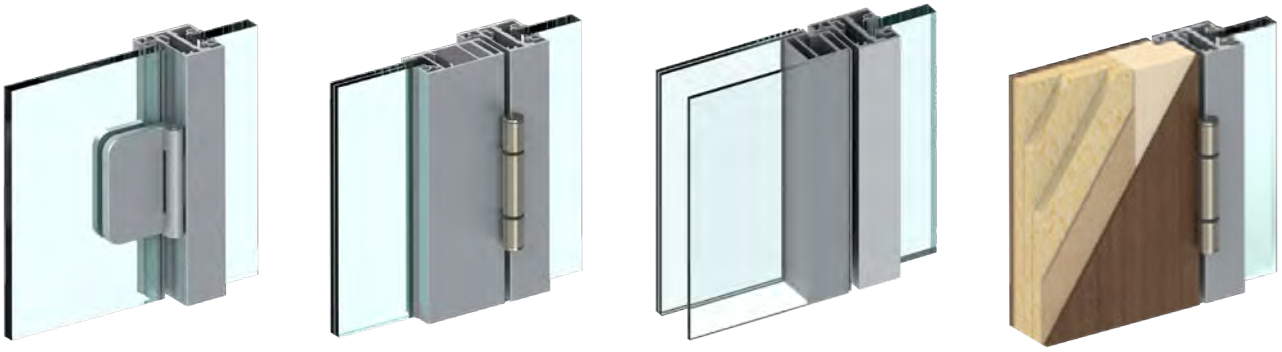
Classification in accordance with EN 12400

GSW Office door frames

GSW Office H

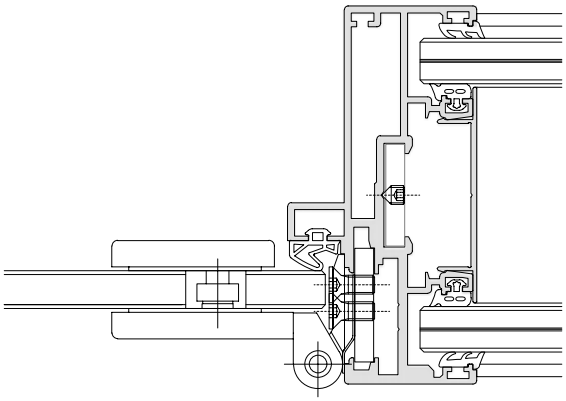
For single-glazed GSW Office system

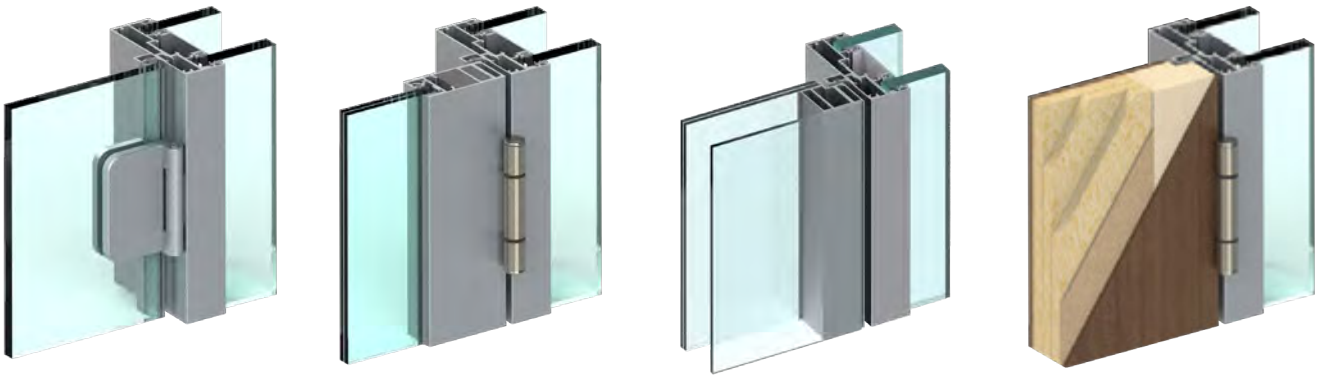




GSW Office Plus H

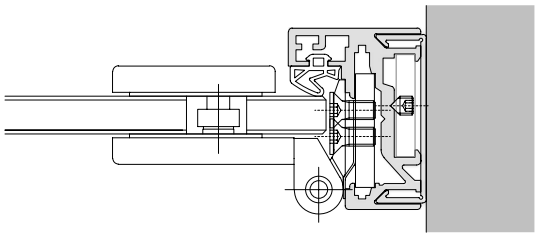
For double-glazed GSW Office Plus system

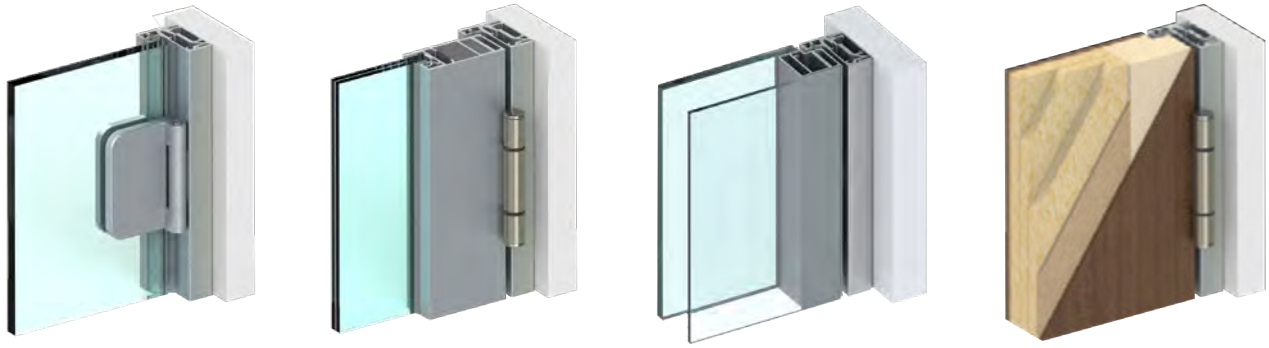




GSW Office L

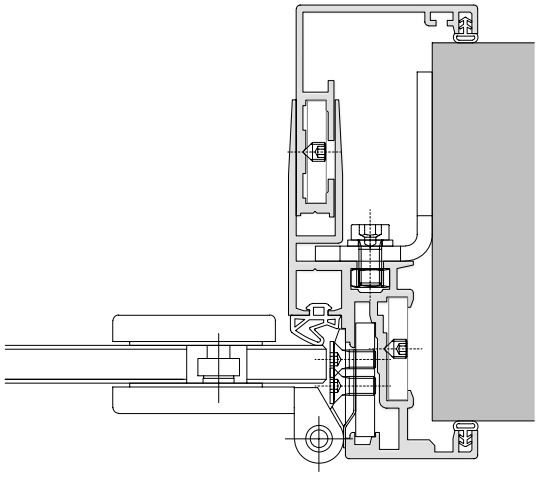
Wall-adjacent door frame

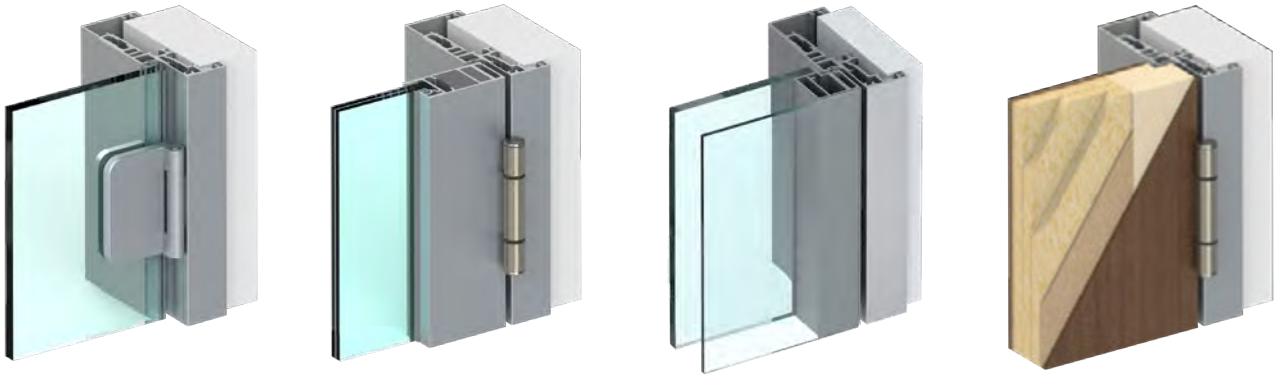




GSW Office C

Wall-covering door frame



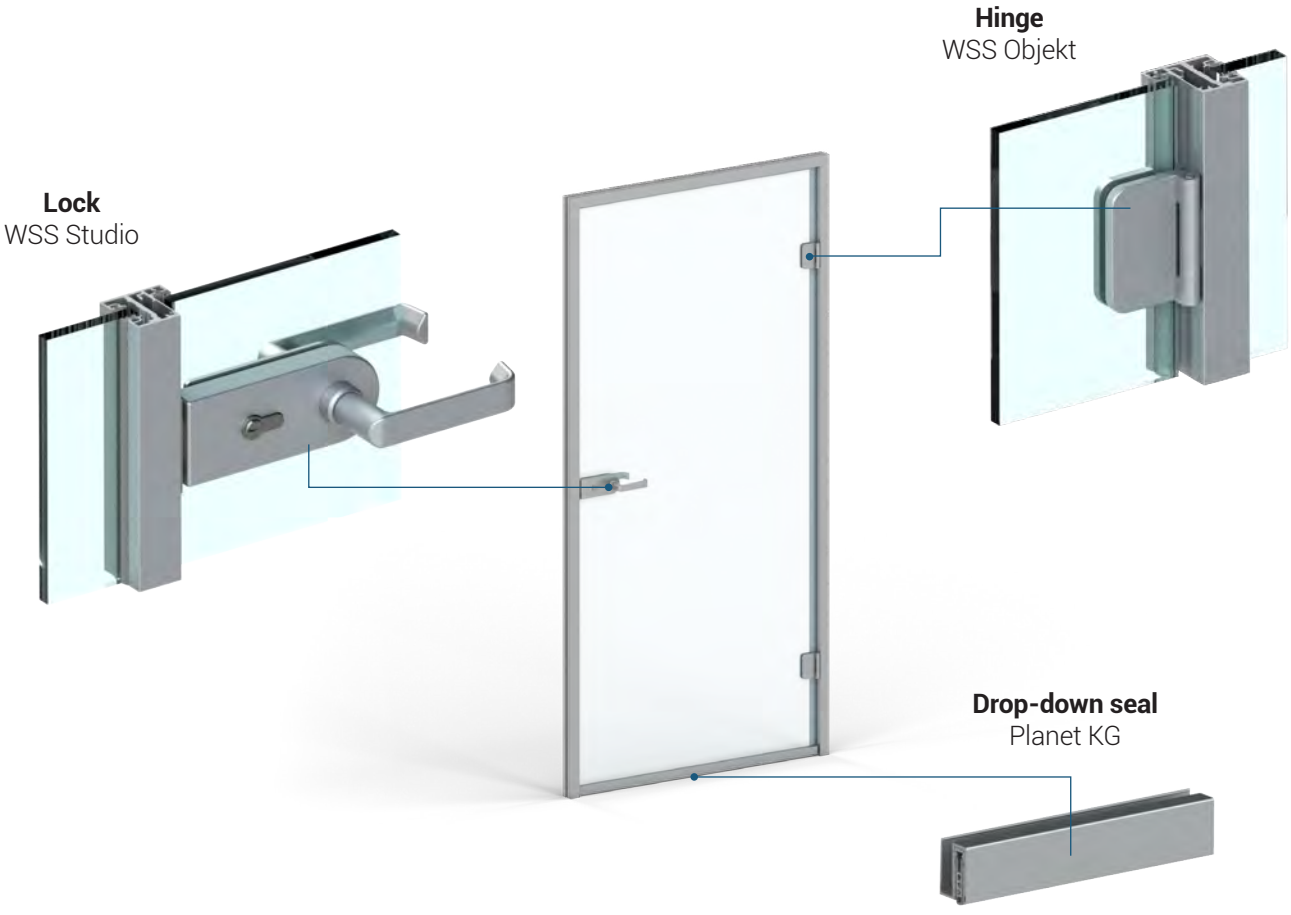


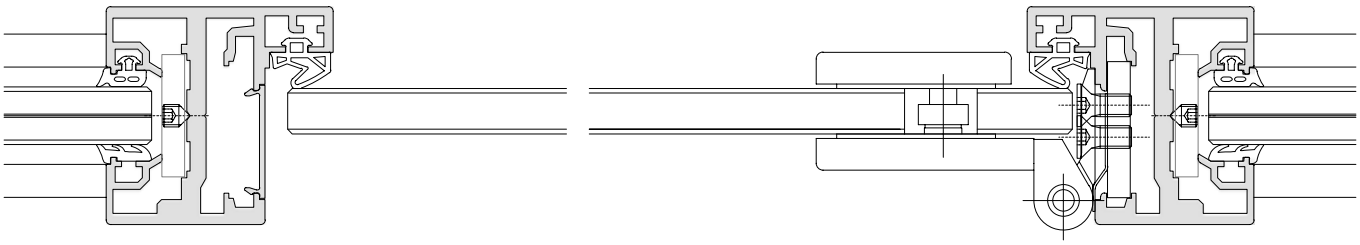
Glass doors

The door leaf made of tempered glass is mounted on an aluminum frame on the wall. This solution is characterised by the highest transparency and good acoustic insulation parameters at the same time. Its design distinguishes by visually light and delicate form, where the pane forms the effect of smooth surface in glass walls.

Specification	
Durability*	Class 6 (200 000 cycles)
Type of glass	ESG 8, 10
Max. door leaf height (mm)	2600**
Max. door leaf width (mm)	1000
Acoustic insulation	R_W 24 / 32 / 33 dB; R_{A1} 24 / 31 dB
Smoke tightness	on request
Fire resistance	-
Material / finish	Anodized / RAL aluminium

*according to EN 12400
**the use of a higher leaf requires consultation



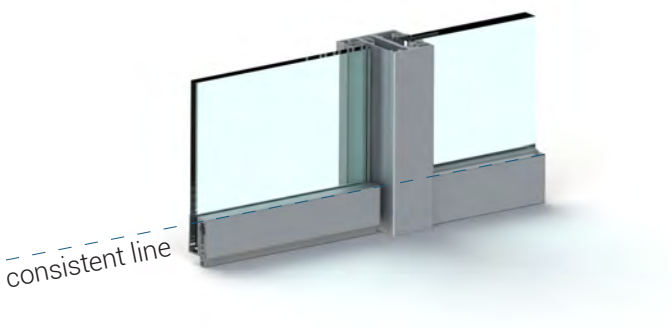


Acoustic insulation

Glass	R_W [dB]	C [dB]	R_{A1} [dB]	$R_{A1,R}$ [dB]
ESG 8 (w/o drop-down seal)	24	0	24	22
ESG 8	32	-1	31	29
ESG 10	33	-2	31	29

System drop-down seal

The system allows for the use of a drop-down seal, which seals the threshold when the door closes. The profile mounted on the bottom edge of door leaf corresponds in terms of dimensions to the profile mounting fixed glazing. The solution is based on the technology of the Swiss company Planet.



Optional accessories

Electric strike
effeff Profix2 118/138
/ GEZE Kingfix A4000/A4300

Hydraulic hinge
Colcom Biloba EVO

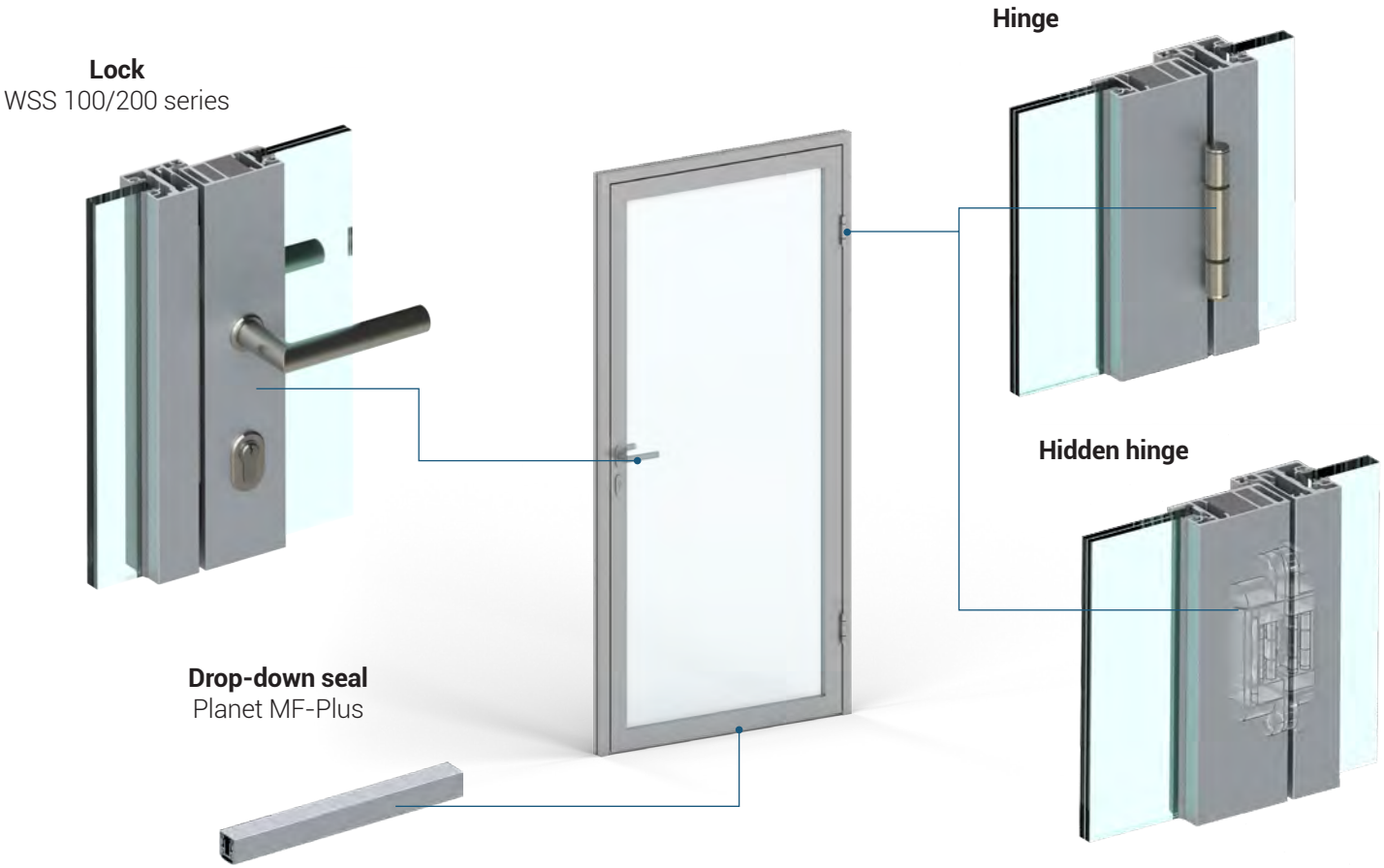
Door closer
GEZE TS 3000 V

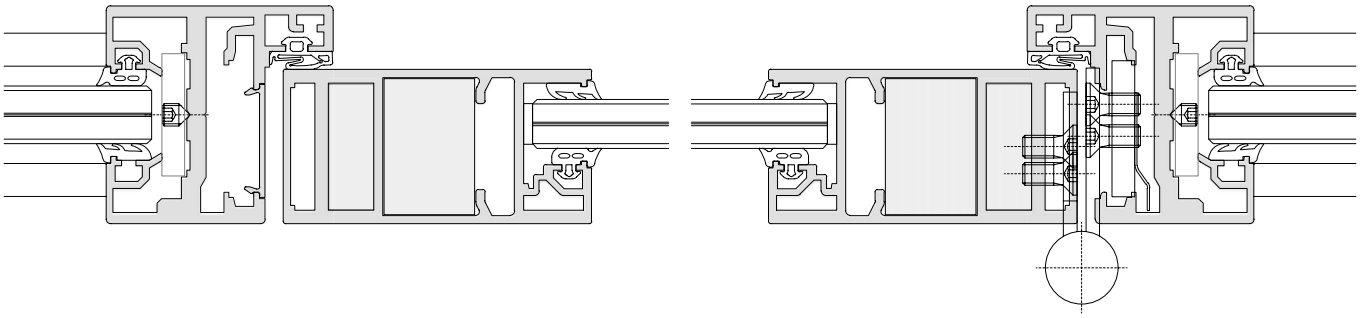
Urban Slim doors

Minimalist design of glass doors in an aluminum frame. It fits well in projects characterized by a light design. The use of a frame allows the use of laminated glass, including acoustic glass, thanks to which the door offers high airbone sound insulation.

Specification	
Durability*	Class 6 (200 000 cycles)
Type of glass	VSG 44.1, 44.2, 55.1, 55.2
Max. door leaf height (mm)	2800
Max. door leaf width (mm)	1000
Acoustic insulation	R_W = 35 ÷ 39 dB; R_{A1} = 34 ÷ 38 dB
Smoke tightness	on request
Fire resistance	-
Material / finish	Anodized / RAL aluminium

*according to EN 12400





Acoustic insulation

Glass	R_W [dB]	C [dB]	R_{A1} [dB]	$R_{A1,R}$ [dB]
VSG 44.1	35	-1	34	32
VSG 44.1 + IsoSound	36	-1	35	33
VSG 44.2 Si*	37	0	37	35
VSG 44.2 Si* + IsoSound	38	-1	37	35
VSG 55.1 + IsoSound	37	-1	36	34
VSG 55.2 Si* + IsoSound	39	-1	38	36

*Si - Saint-Gobain Glass Stadip Silence

Optional accessories

Electric strike
effeff Profix2 118/138
GEZE Kingfix A4000/A4300

Electromechanical lock
GEZE rLock

Door closers

Surface mounted
GEZE TS 3000 V

Hidden
GEZE BOXER 2-4

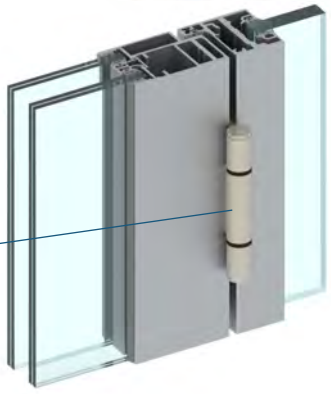
Urban Plus doors

Single- or double-glazed glass doors in the Urban Plus aluminum frame. The double-glazed variant enables very high acoustic insulation - R_w up to 43 dB. The construction of the leaf in both versions allows to obtain the same high aesthetic and construction values - height range of up to 3000 mm.

Specification	
Durability*	Class 6 (200 000 cycles)
Type of glass: single-glazed	ESG 8, 10 ; VSG 44.1, 44.2, 55.1, 55.2
Type of glass: double-glazed	ESG 6, 8 ; VSG 33.1, 33.2, 44.1, 44.2
Max. door leaf height (mm)	3000
Max. door leaf width (mm)	1000
Acoustic insulation single-glazed	R_w 35 ÷ 39 dB; 34 ÷ 38 dB
Acoustic insulation double-glazed	R_w 39 ÷ 43 dB; R_{A1} 37 ÷ 42 dB
Smoke tightness	on request
Fire resistance	-
Material / finish	Anodized / RAL aluminium

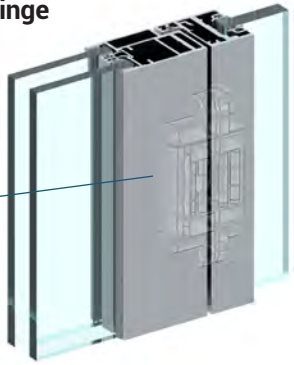
*according to EN 12400

Hinge

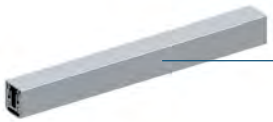


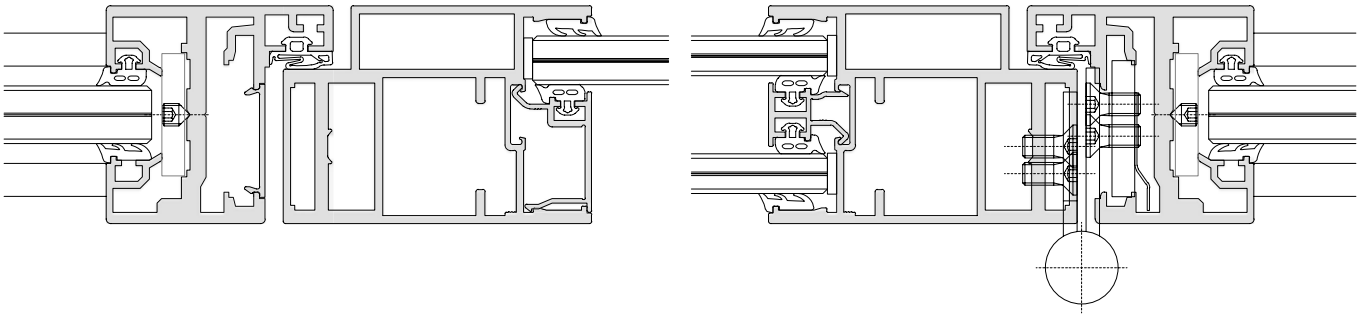
Lock
WSS 100/200 series

Hidden hinge



Drop-down seal
Planet MF-Plus





Acoustic insulation

Glass	R_W [dB]	C [dB]	R_{A1} [dB]	$R_{A1,R}$ [dB]
VSG 44.1	35	-1	34	32
VSG 44.2 Si*	38	-1	37	35
VSG 55.2 Si*	39	-1	38	36
VSG 33.1 + VSG 33.1	39	-2	37	35
VSG 33.1 + VSG 44.2 Si*	41	-1	40	38
VSG 44.2 Si + VSG 44.2 Si*	43	-1	42	40

*Si - Saint-Gobain Glass Stadip Silence

Optional accessories

Electric strike
effeff Profix2 118/138
GEZE Kingfix A4000/A4300

Electromechanical lock
GEZE rLock

Door closers

Surface
GEZE TS 3000 V

Hidden
GEZE BOXER 2-4

Purian doors

The door leaf is characterized by the highest aesthetic values, allowing the use of not only glass as a finishing material - transparent or non-transparent - but also wood. The unique design results from the structure in which the outer material is structurally glued to the profile hidden inside the leaf. At the same time, the doors are characterized by very high acoustic insulation - R_w even up to 43 dB.

Specification	
Durability*	Class 6 (200 000 cycles)
Type of glass	ESG 4, 6 ; VSG 44.2
Max. door leaf height (mm)	2800
Max. door leaf width (mm)	1000
Acoustic insulation	R_w 36 ÷ 43 dB; R_{A1} 35 ÷ 42 dB
Smoke tightness	on request
Fire resistance	-
Material / finish	Anodized / RAL aluminium

*according to EN 12400

Acoustic insulation

Szkło	R_W [dB]	C [dB]	R_{A1} [dB]	$R_{A1,R}$ [dB]
ESG 4 + ESG 6	36	-1	35	33
ESG 4 + VSG 44.2 Si*	40	-1	39	37
ESG 4 + VSG 44.2 Si*	42	-2	40	38
ESG 4 + VSG 44.2 Si* (varnished)	43	-1	42	40

*Si - Saint-Gobain Glass Stadip Silence

Optional solutions

In order to increase the acoustic insulation, it is possible to use the version with the Akustic insert, which allows obtaining R_w of 42 dB while maintaining translucency.

The highest acoustic insulation for the Purian door - R_w 43 dB - is guaranteed by the door in the varnished (non-transparent) version.

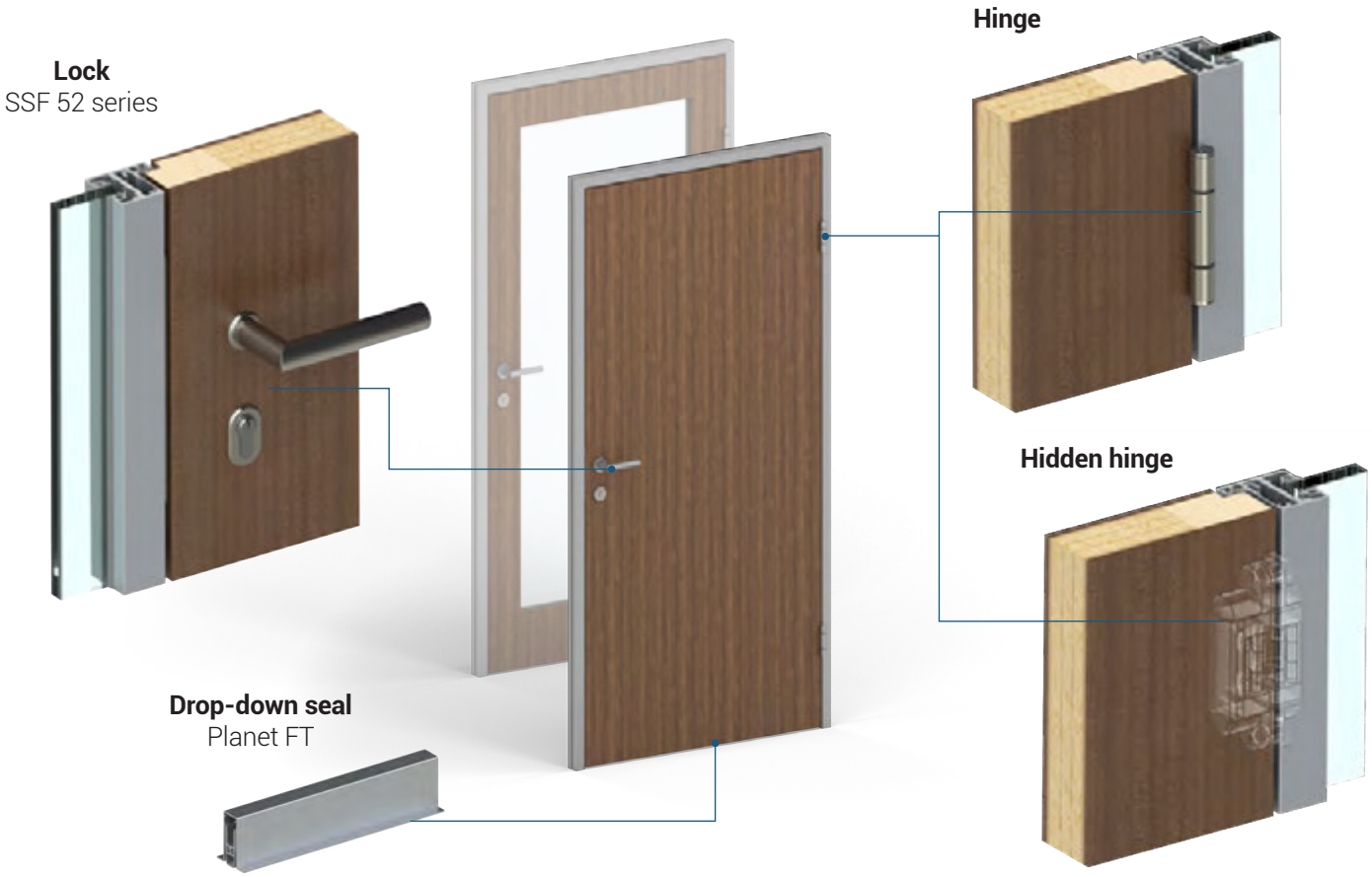
Akustic

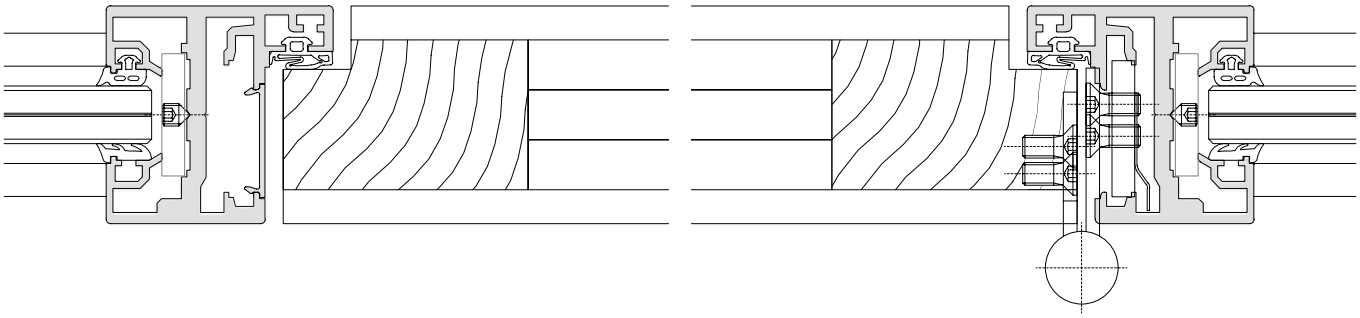
Wooden doors

The texture of the wood is the traditional and attractive door finishing. It can be selected so that it perfectly corresponds to the other interior elements. Wooden doors are great in places where we want to achieve high parameters of acoustic insulation and privacy provided by the non-transparent door.

Specification	
Durability*	Class 6 (200 000 cycles)
Type of filling	full / glazed
Max. door leaf height (mm)	3000
Max. door leaf width (mm)	1000
Acoustic insulation	R_W = 33 ÷ 41 dB; R_{A1} = 32 ÷ 40 dB
Fire resistance	-
Material / finish	Veneer / Laminate / Varnish

*according to EN 19353:2002 / AC:2003 / C1:2007





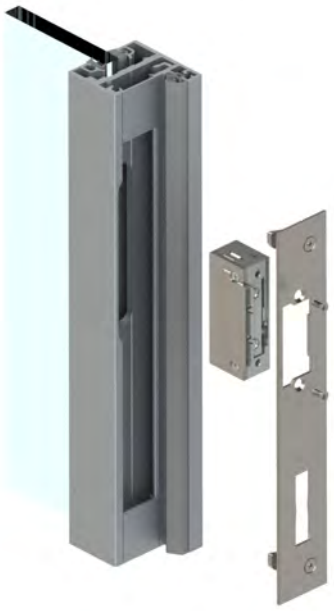
Acoustic insulation

Filling	R_W [dB]	C [dB]	R_{A1} [dB]	$R_{A1,R}$ [dB]
Glass 34 mm, VSG 44.1	33	-1	32	30
Glass 34 mm, VSG 55.2 Si*	37	-1	36	34
Solid 34 mm, Homalight D	29	-4	25	23
Solid 48 mm, Sauerland 33 VL	38	-1	37	35
Solid 48 mm Alu, Sauerland 33 VL	39	-1	38	36
Solid 48 mm, Sauerland 39S3R	41	-1	40	38

*Si - Saint-Gobain Glass Stadip Silence

Optional accessories

Electric strike
effeff Profix2 118/138
GEZE Kingfix A4000/A4300



Electromechanical lock
GEZE rLock

Door closer
GEZE TS 3000 V

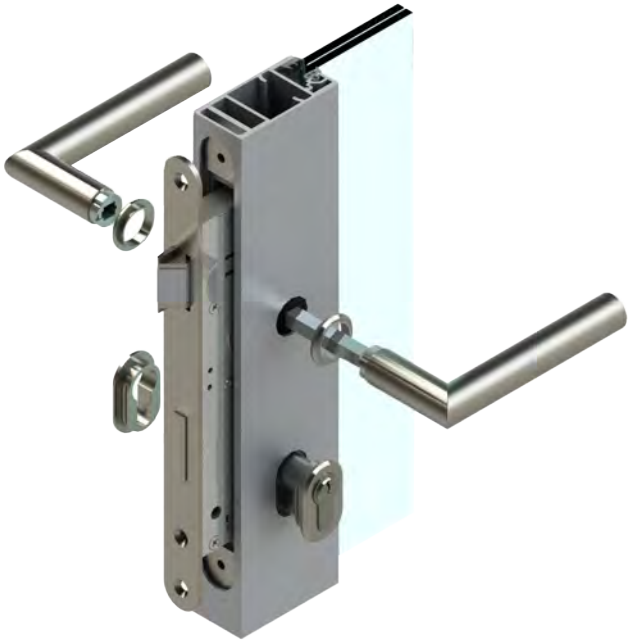
Fittings and accessories

Handles

For the aesthetics of the door finish, door handle and rosettes are very important. They must not only look good, but also be durable, to guarantee the stability of the entire solution.

The door handles used in the GSW Office door combine both these aspects, adding one more important - the speed of assembly without the use of tools.

Particularly noteworthy is very delicate handle's rosette, which perfectly corresponds to the light nature of the entire system.



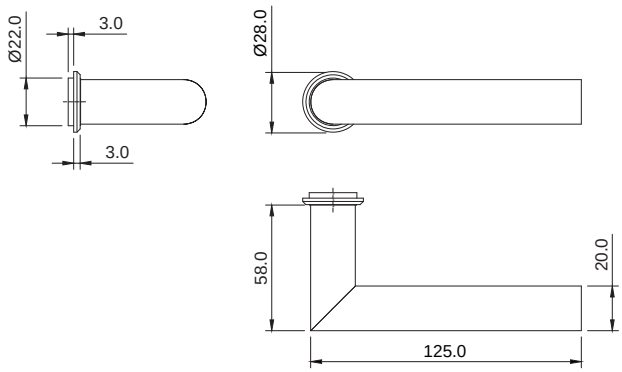
10 10-year warranty

DIN EN ISO 14001 Environment-friendly production

EU Made in Europe

Handle type L with round form

Material	Stainless steel
Connection	Quick-Fit



Standard finishes:

Stainless steel


*

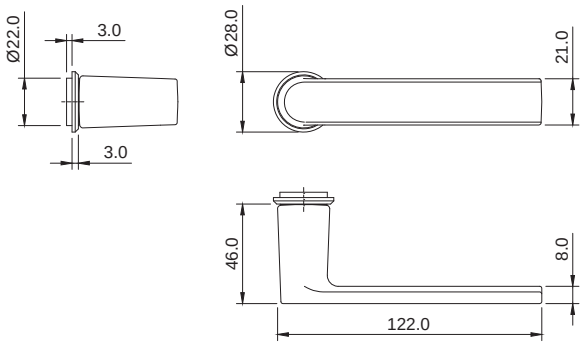
Anthracite - PVD

Black - PVD

*also available in a polished, antibacterial version

Handle type L with flat form

Material	Brass
Connection	Quick-Fit



Standard finishes:

Stainless steel effect

Anthracite - PVD


*

Black - PVD


*

*also available in a polished version

Locks

Reliable fittings made by recognised German producers are used in the GSW Office doors. They ensure the highest performance and strength parameters.

Apart from testing doors in GSW systems as a whole, locks and hinges are tested additionally in laboratories of their producers and the obtained results confirm their exceptional reliability and durability

Classification*										
3	X	8	0	0	F	1	B	A	2	0
3	S	5	1	0	G	6	B	C	2	0

*according to EN 12209:2003 / AC:2005

Hinges

Aluminium and wooden doors in the GSW Office systems allow the mounting of surface or concealed hinges.

The hinges used in Glass System doors are manufactured by experienced European suppliers, tested in their laboratories and are provided with the CE mark.

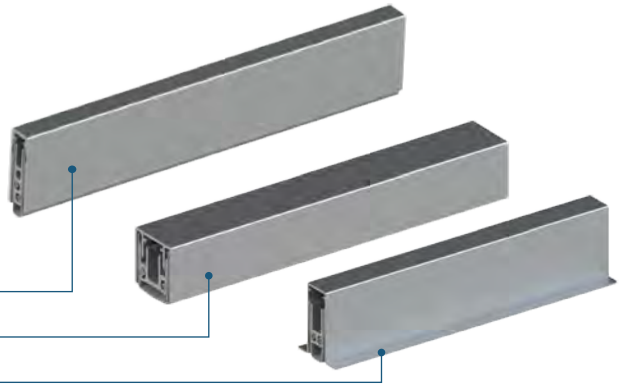
Classification*								
2	7	3	1	1	4	0	10	CE
4	7	7	1	1	4	1	14	CE

*according to EN 1935:2002 / AC:2003 / C1:2007

Drop-down seals

Drop-down seals are used as a standard to improve the acoustic insulation of every type of the doors.

All system doors use solutions based on the technology of the Swiss company Planet.



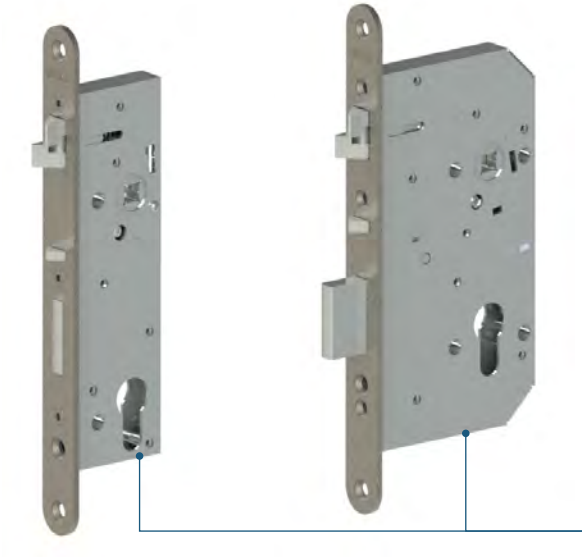
Planet KG	48 dB
Planet MF-Plus	54 dB
Planet FT	48 dB

Electric strikes

One of the essential elements of modern office equipment is the access control system. In this case, an electric strike is used in the door frame and a lock with a fixed knob or handrail. The GSW Office systems allows for the use of electric strikes types:

- effeff seria 118/138 Profix2
- GEZE A4000/A4300 Kingfix

Electromechanical locks



Where access control and simultaneous mechanical protection are required, self-locking electromechanical locks can be used. When closing the door, the bolt is automatically released, which effectively locks the door in the closed position. If an opening signal is given, the lock activates the handle enabling free access. The locks meet the requirements of panic and emergency outputs in accordance with EN 179 and EN 1125.

The GSW Office systems uses GEZE rLock electromechanical locks.

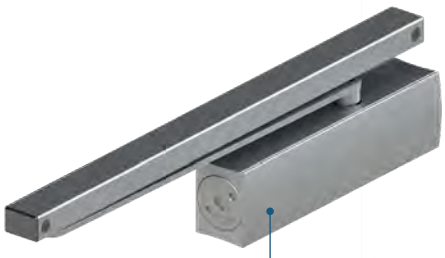
Classification*									
3	7	6	B	1	3	2	2	A	B/D

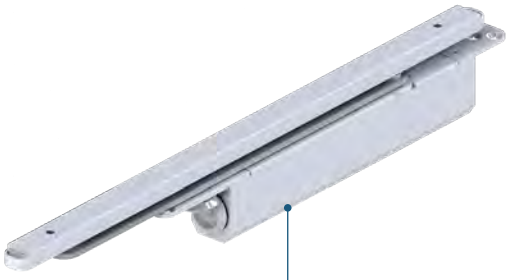
*according to EN 179:2008

Door closers

The door closers are particularly important when using the access control system. The closing of the door is effectively controlled after each opening. The door closer can remain in the open position after the use of mechanical interlocks.

The GSW Office systems has been adapted to work with GEZE TS 3000 V door closer, and in the case of aluminium doors there is also the option of installing a hidden door closer - GEZE Boxer 2-4.

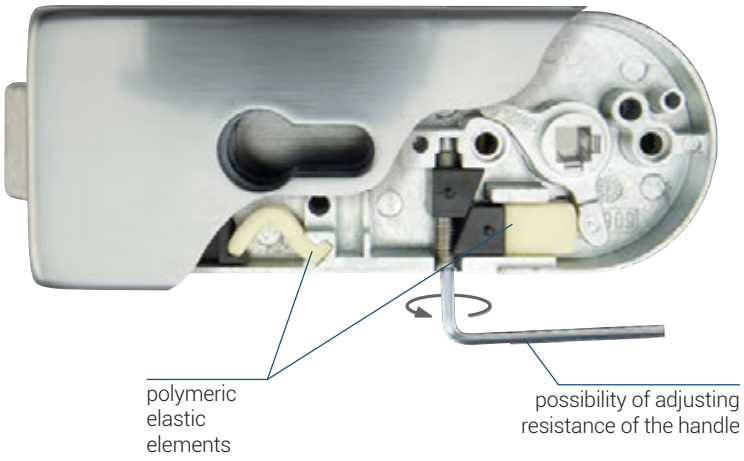




Classification*					
4	8	4 1	1	1	4
3	8	4 2	1	1	4

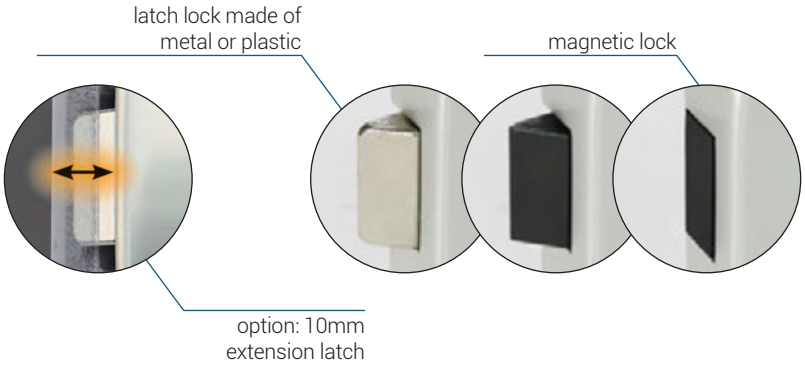
*according to EN 1154:1996 / A1:2002

Glass fittings



Locks

Durability (DIN EN 12209)	1 500 000 cycles
Corrosion resistance (DIN EN 1670)	class 3



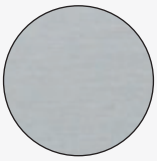
WSS Studio UV

WSS Studio PZ

Handles

WSS type C flat

WSS type L round



.112
silver anod.

.198
stainless steel
effect

.157
black anod.

Hinges

Load capacity (DIN EN 1935)	60 kg
Durability (DIN EN 1935)	500 000 cycles

WSS Objekt

More fittings and information
in WSS catalogues

Lante Intelli switches and readers

What complements GSW Office systems perfectly are minimalist Lante Intelli light switches and access control readers. With their delicate and elegant form, they are a perfect match for the other solutions, forming a visually consistent whole. A small touch panel with subtle backlight is adapted to the aluminium profiles of the frame in terms of dimensions.

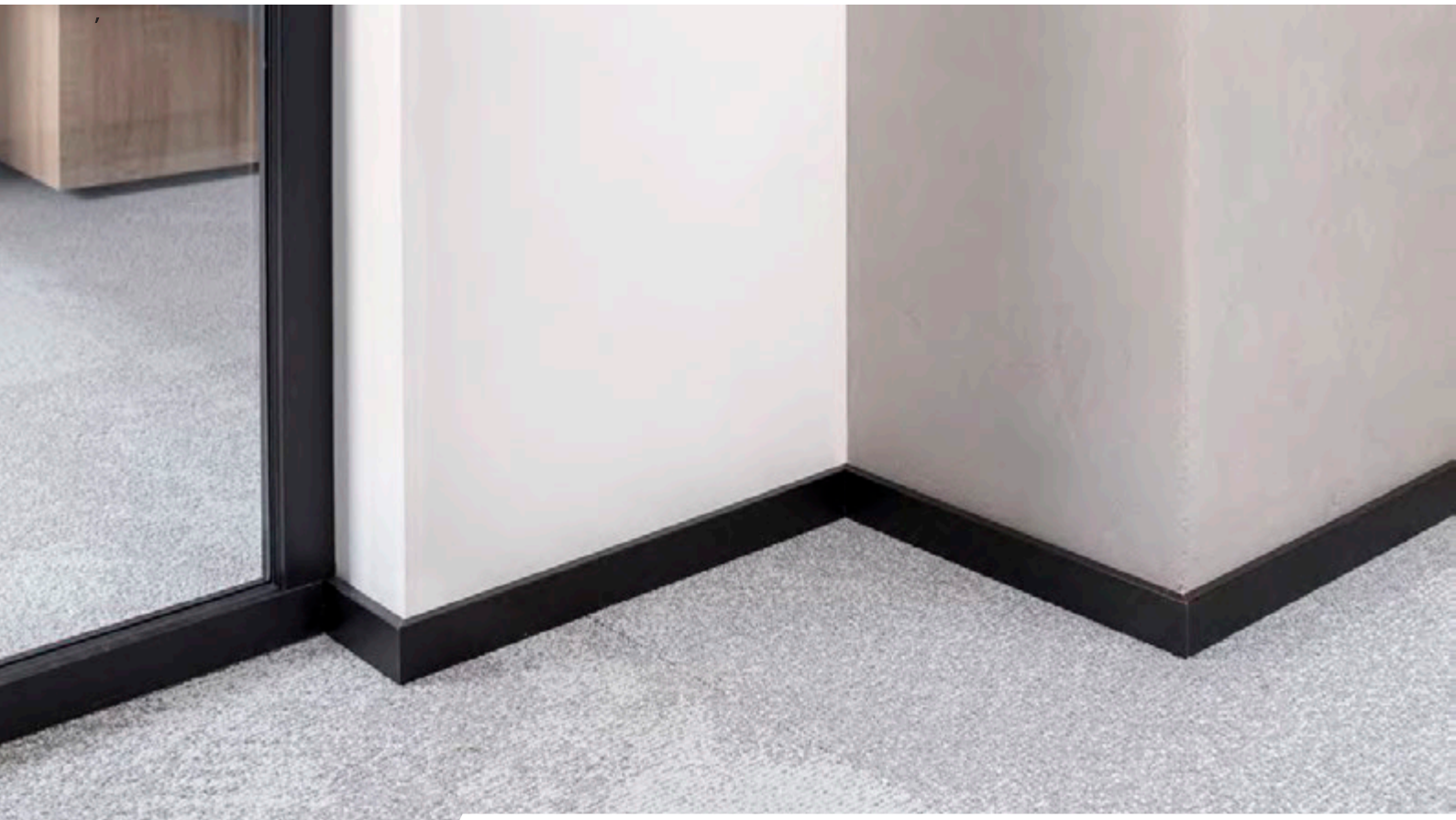
lante

Lante Intelli Touch

Lante Intelli Gestiq

Lante Intelli Access

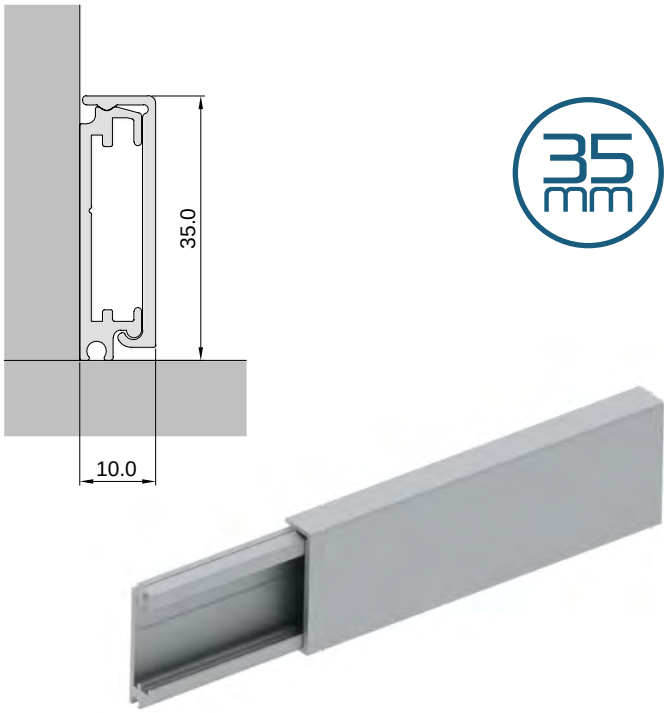
12 V



Wall Up baseboards

Baseboards are a small but significant part supplementing the products of the GSW Office family. They are consistent in their appearance and dimensions with other system profiles. Additionally, it is possible to run cables inside the baseboard, which improves the functionality and aesthetics of the interior.

wall up
THE BASEBOARDS



35 mm

More information in
Wall Up catalogue

Sales materials

Demonstration model GSW Office

Demonstration model GSW Office Plus

Demonstration model GSW Office FR

Demonstration model GSW Office Plus FR

Color swatch

Glass System catalogues

GSW Office

GSW Pro

GS Railing

Test reports

LA01-1839/15/Z00NA
LA02-1839/15/Z00NA
LZF00-01468/16/Z00NZF
LZF01-01028/17/Z00NZF
LZF02-01028/17/Z00NZF
LZF00-02459/16/Z00NZF
LZF01-02255/17/Z00NZF
LZF02-02255/17/Z00NZF
LZF03-02255/17/Z00NZF
LZF00-02392/17/Z00NZP
LZF00-02577/18/Z00NZF
LZF00-03592/18/Z00NZF
LZF01-03295/18/Z00NZF
LZF02-03295/18/Z00NZF
LZF01-01708/19/Z00NZF
LZF02-01708/19/Z00NZF
LZF03-01708/19/Z00NZF
LZF04-01708/19/Z00NZF
LZF05-01708/19/Z00NZF
LZF00-02062/19/Z00NZF
LZF00-03171/19/Z00NZF
LZF00-03582/19/Z00NZF
LZF01-00763/20/Z00NZF
LZF02-00763/20/Z00NZF
LZF00-01287/20/Z00NZF
LZF02-01401/20/Z00NZF
LZF01-01401/20/Z00NZF
LK01-02944/15/Z00NK
LK02-02944/15/Z00NK
LK03-02944/15/Z00NK
LZE00-02599/16/Z00NZE
LZE00-01313/17/Z00NZE
LZE00-02392/17/Z00NZP
LZE01-02776/19/Z00NZE
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LZE01-02783/19/Z00NZE
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LZE00-00889/20/Z00NZE
LZE01-01457/20/Z00NZE
LZE02-01457/20/Z00NZE
LZE03-01457/20/Z00NZE
LZP01-02392/17/Z00NZP
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LZP03-02392/17/Z00NZP
LZP04-02392/17/Z00NZP
LZP05-02392/17/Z00NZP
LZP01-02867/18/Z00NZP
LZP01-03326/19/Z00NZP
LZP02-03326/19/Z00NZP
LZP01-03337/19/Z00NZP
LZP01-00717/20/Z00NZP
LZP02-00717/20/Z00NZP
LZP01-01532/20/Z00NZP
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LZP04-01532/20/Z00NZP
LZP05-01532/20/Z00NZP
LZP01-01576/20/Z00NZP
LZP01-01577/20/Z00NZP
LZP00-01778/20/Z00NZP

List of reports from tests carried out by the Glass System Research and Development Center* at the Building Research Institute, within which the system parameters specified in the catalog were obtained.

*status granted by the Ministry of Economic Development of the Republic of Poland by Decision No. 1 / CBR / 20

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