

# ES zerøframe

The full glazed window. More transparency than ever.

TECHNICAL CATALOGUE



# ES zeroframe

*ES Zeroframe is an innovative window casement system with a unique design and excellent performance.*

The sash is formed by a structural glass with a 44 mm serigraphy only inside. The outside is completely transparent.

It has an inward opening of 180°, the hardware is fully concealed, the handle has its mechanism inside and it is directly inserted into the glass.

The unnecessary has been completely removed to ensure an exceptional light transmission and an unbelievable minimal design.

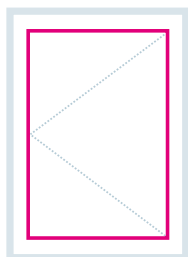


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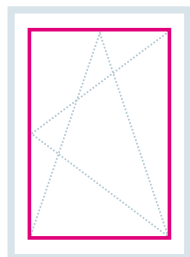
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## available range products

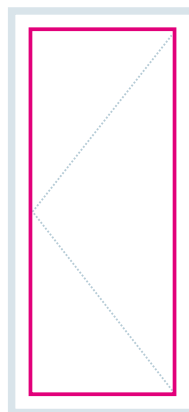
### 1 sash



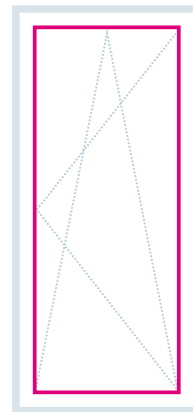
casement  
window



tilt-and-turn  
window

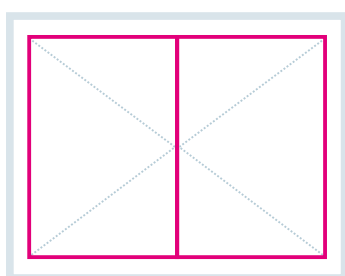


casement  
door window

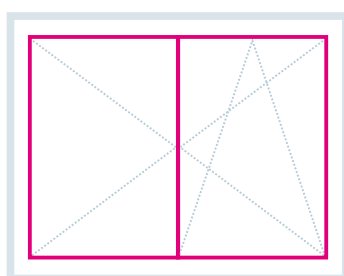


tilt-and-turn door  
window

### 2 sashes

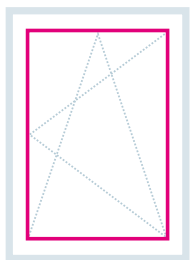


casement window



casement window + tilt  
-and -turn window

# 1 sash window

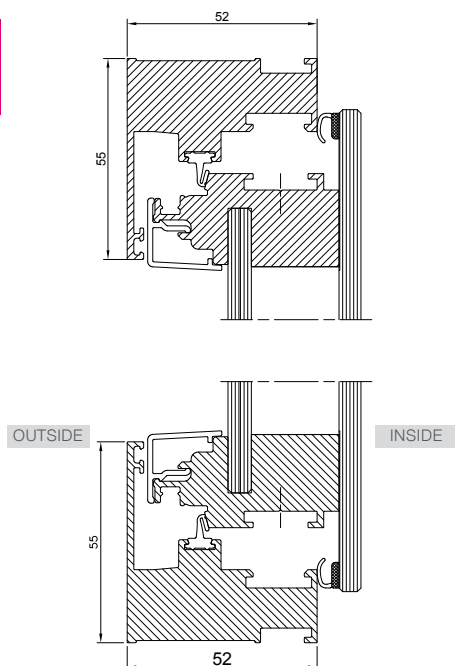


The sash is formed of a structural glass with a 44 mm serigraphy only inside. The outside is completely transparent.

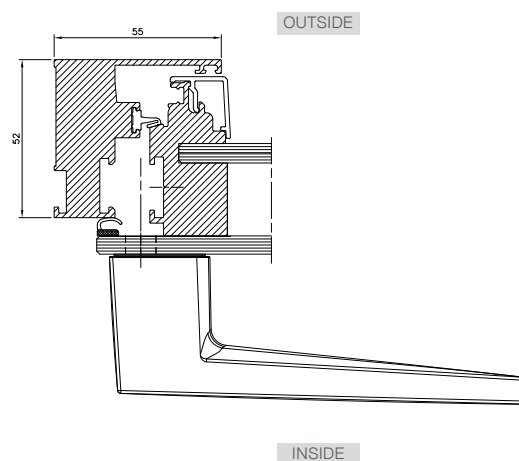
The frame section is 52 mm and the sash section is 60 mm. It has an inward opening of 180°, the hardware is fully concealed, the handle has its mechanism inside and it is directly inserted into the glass.

The glass can be double or triple, available also in the noise reduction version. The microventilation is standard, the tilt-and-turn configuration and the handle with key are optional.

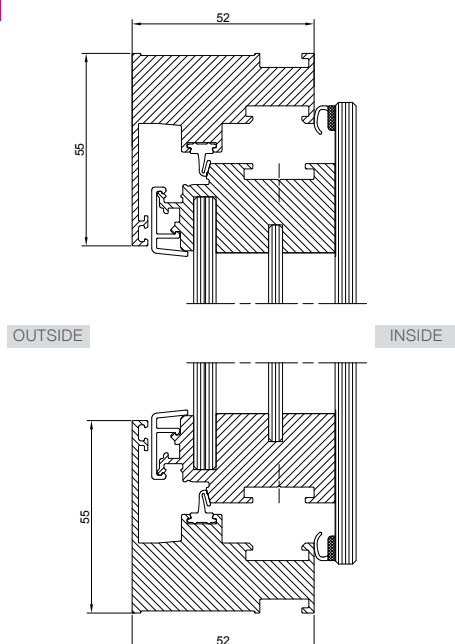
vertical section  
double glass



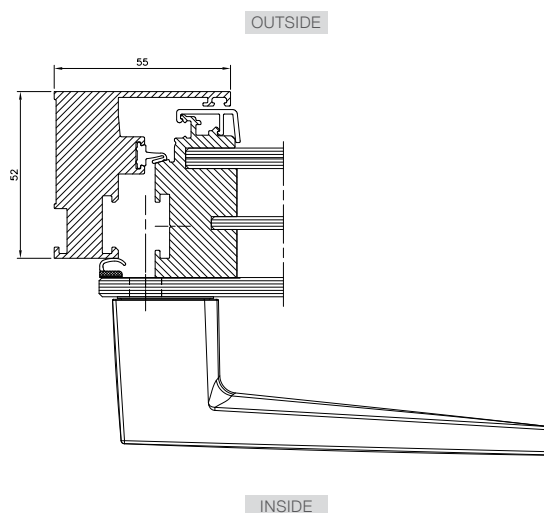
horizontal section  
double glass



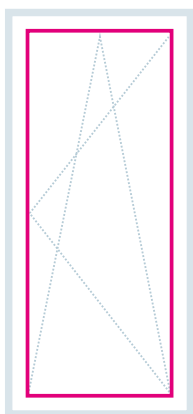
vertical section  
triple glass



horizontal section  
triple glass



# 1 sash window door

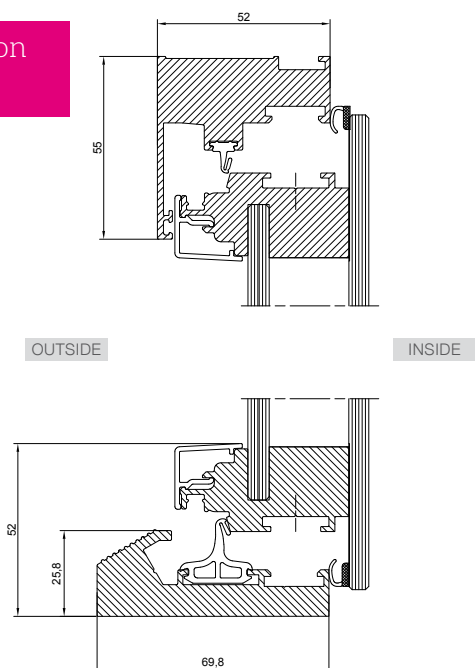


The sash is formed of a structural glass with a 44 mm serigraphy only inside. The outside is completely transparent.

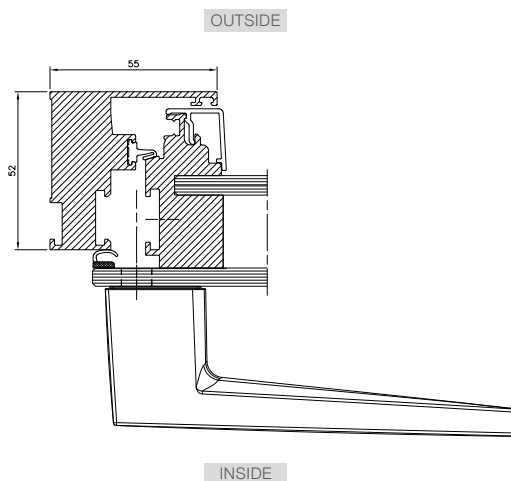
The frame section is 52 mm and the sash section is 60 mm. It has an inward opening of 180°, the hardware is fully concealed, the handle has its mechanism inside and it is directly inserted into the glass.

The glass can be double or triple, available also in the noise reduction version. The maximum achievable height is 2.400 mm. The microventilation is standard, the tilt-and-turn configuration and the handle with key are optional.

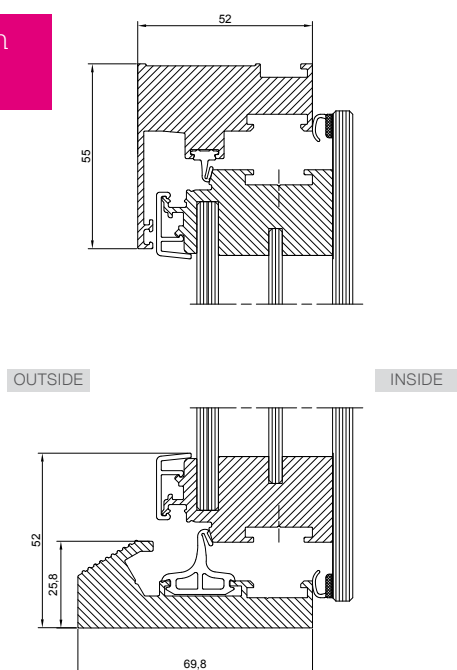
vertical section  
double glass



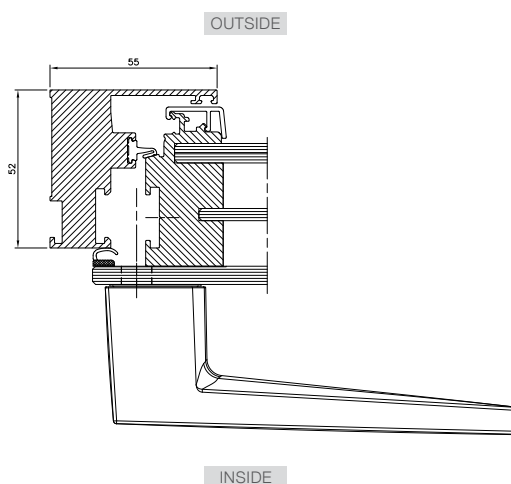
horizontal section  
double glass



vertical section  
triple glass



horizontal section  
triple glass



## ES Zeroframe 1 sash technical data:

	Double glass	Triple glass
Maximum sash surface	window 1.300x1.500 (1,95 mq) door window 1.000x2.400 (2,4 mq)	window 1.300x1.500 (1,95 mq) door window 900x2.400 (2,4 mq)
Minimum sash dimensions	450x600 mm	
Minimum window dimensions	500x650 mm	
Maximum sash weight	100 kg	
Glass	33.1/24/6T	33.1/15/4T/15/6T
Frame profile	Thermal cut aluminium	
Sash section	60 mm	
Frame section	52 mm	
Serigraphy	44 mm serigraphy only inner side	
Opening sash	180°	
Spacer	Warm Edge	
Gasket	Central (open joint)	
Hardware	Concealed	
Microventilation	Standard	
Thermal insulation	window Uw 1.56 W/m2K* door window Uw 1.49 W/m2K**	window Uw 1.26 W/m2K* door window Uw 1.20 W/m2K**
Noise reduction	Up to 40dB ***	Up to 42dB ***
Air tightness	Class 4	
Wind resistance	A5	
Water tightness	1200 Pa	

\*preformance reffered to specific test configurations: window dimentions 1230 mm x 1480 mm

\*\*preformance reffered to specific test configurations: door window dimentions 1230 mm x 2180 mm

\*\*\*data reffered to the glass configurated in noise reduction version

### ES Zeroframe 1 sash is available:

- tilt- and- turn traditional and logica
- Burglar proof (1°security level)
- Handle with key

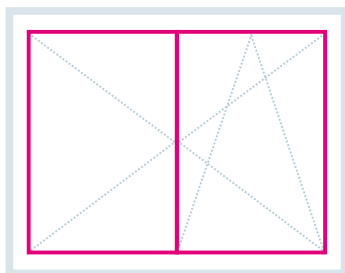
Standard finishes:

**White, Grey, Black, Beige, Brown**

Special finishes:

**Dark wood effect, light wood effect, red, dark grey**

## 2 sashes window

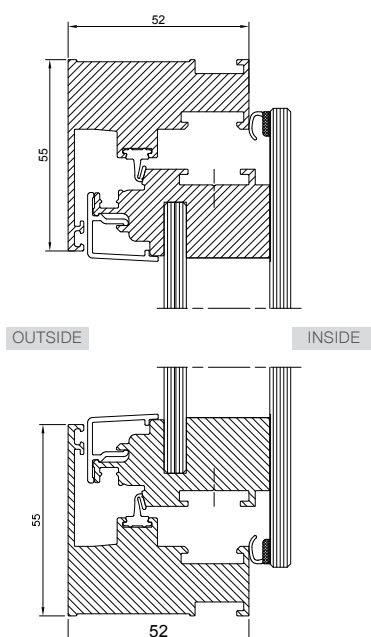


The sashes are formed of a structural glass with a 44 mm serigraphy only inside. instead outside a thin seal edge guarantees full transparency with the closed window.

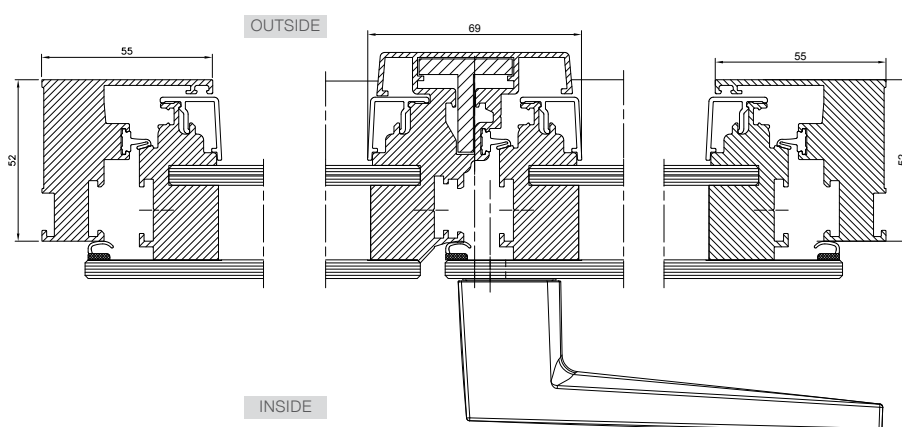
The frame section is 52 mm and the sash section is 60 mm. The central groove is 69 mm. The opening is inward though 180°, the hardware is fully concealed, the handle has its mechanism inside and it is directly inserted into the glass.

The glass can be double or triple, available also in the noise reduction version. The microventilation is standard, the tilt-and-turn configuration and the handle with key are optional.

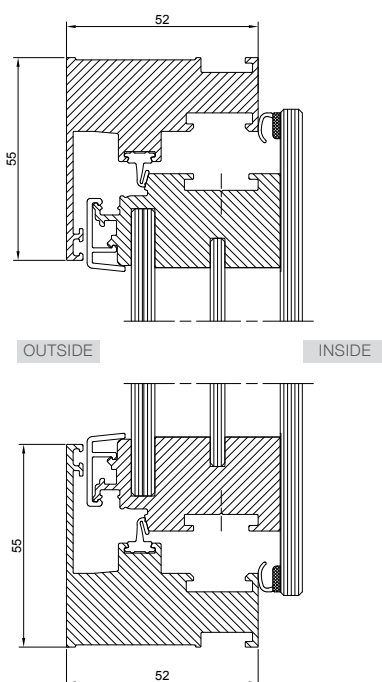
vertical section  
double glass



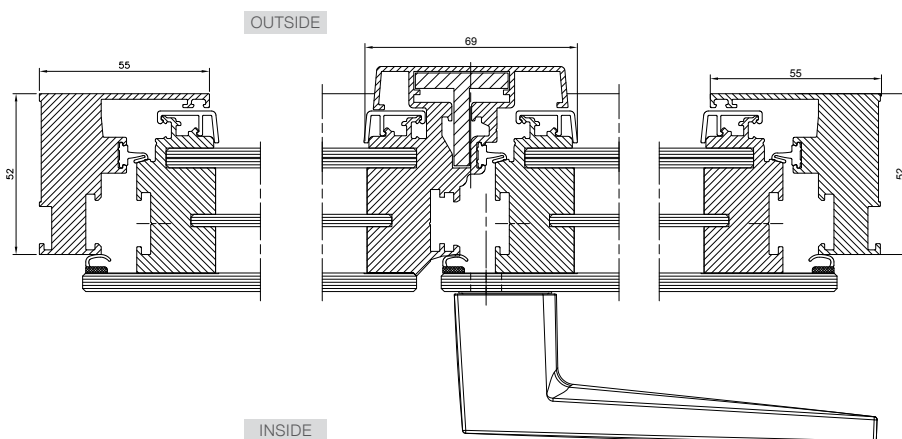
horizontal section  
double glass



vertical section  
triple glass



horizontal section  
triple glass



## ES Zeroframe 2 sashes technical data:

	Double glass	Triple glass
Maximum sash surface	Window 1.250x1.500 (1,9 mq)	Window 1.250x1.500 (1,9 mq)
Minimum sash dimensions	450x600 mm	
Minimum window dimensions	1000x650 mm	
Maximum sash weight	100 kg	
Glass	33.1/24/6T	33.1/15/4T/15/6T
Frame profile	Thermal cut aluminium	
Sash section	60 mm	
Frame section	52 mm	
Serigraphy	44 mm serigraphy only inner side	
Opening sash	180°	
Spacer	Warm Edge	
Gasket	Central (open joint)	
Hardware	Concealed	
Microventilation	Standard	
Thermal insulation	Window Uw 1.75 W/m2K*	Window Uw 1.46 W/m2K*
Noise reduction	Up to 40dB ***	Up to 42dB ***
Air tightness	Class 4	
Wind resistance	A3	
Water tightness	900 Pa	

\*performance referred to specific test configurations: window dimensions 1230 mm x 1480 mm

\*\*\*data referred to the glass configured in noise reduction version

### ES Zeroframe 2 sashes is available:

- tilt- and- turn traditional and logical
- Burglar proof (1° security level)
- Handle with key

Standard finishes:

**White, Grey, Black, Beige, Brown**

Special finishes:

**Dark wood effect, light wood effect, red, dark grey**

## finishes

We offer different color combinations: versatility of powder coating in Ral colors on aluminum profiles and handles, combined through the aesthetic perfection of the serigraphy, made with ceramic glazes. The wood effect finishes are realized with the sublimation process, which allows to reproduce the characteristic wood grain on metallic surfaces. Furthermore it's possible, on request, to have a different color combinations of the internal and external side of the sash.

## standard finishes

Color	Frame Profile	Serigraphy	Spacer	Outer sash profile	Handle
Black	Ral 9005	Black	Ral 9005	Oxidized Black	Black
White	Ral 9010	White	Ral 7035	Oxidized Silver	Silver Grey
Grey	Ral 7042	Grey	Ral 7040	Oxidized Silver	Silver Grey
Beige	Ral 9001	Beige	Ral 7035	Oxidized Silver	Silver Grey
Brown	Ral 8016	Brown	Ral 8016	Oxidized Silver	Silver Grey

## special finishes

Color	Frame Profile	Serigraphy	Spacer	Outer sash profile	Handle
Light Wood Effect	A-21-R	Beige	Ral 7035	Oxidized Silver	Silver Grey
Dark Wood Effect	NOCE-R-E	Brown	Ral 8016	Oxidized Silver	Silver Grey
Red	Ral 3003	Red	Ral 7040	Oxidized Silver	Silver Grey
Dark Grey	Ral 7031	Grey	Ral 7040	Oxidized Silver	Silver Grey

## aesthetic handles

ES Zero 1



Four different aesthetics, united by only one style: sober and clear lines for an essential design

ES Zero 2



ES Zero 3

*design by Marc Sadler*



ES Zero 4

*design by Marc Sadler*



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