

## Technische Information

### FOPPE Ganzglas Hebeschiebesystem ESSENZA





WE'RE GOING TO SHOW YOU THE DIFFERENCE BETWEEN HOW WINDOWS ARE AND HOW THEY SHOULD BE

ESSENZA

# THIS IS HOW WINDOWS ARE

HAVE YOU EVER NOTICED THAT ITS STRUCTURE INTERRUPTS THE VIEW THROUGH IT ?  
IT'S A LIMIT IMPOSED ON THE REAL ROOM'S DEPTH.





# AND THIS IS HOW WINDOWS SHOULD BE

THE STRUCTURE IS PRACTICALLY INVISIBLE .  
THE OUTSIDE VIEW IS UNBROKEN AND THERE IS NO INTERNAL FRAME .



THIS IS ESSENZA

ESSENZA

THE



ESSENZA INTRODUCES A NEW CLASS OF WINDOW.

# FULL GLAZED WINDOW



ESSENZA is a revolution in window design. ESSENZA removes all visible structural elements and allows glass to be what it should be: transparent. ESSENZA makes a strong architectural statement by enhancing the impact of the external landscape, thus creating new opportunities in architecture. The full-glass concept with its minimal structural detailing offers new options to interior design as well: ESSENZA is conceived as a window for external walls, but its refinement and insulation characteristics make it ideal for interiors as well. This is why ESSENZA is a horizontal slider, with all the superior conveniences, advantages and functionality of this product type compared to casement windows, without any of their disadvantages.

**The superiority of ESSENZA is evident at first glance:**

- | performance certified to the highest standards, in line with a top quality casement window or terrace door |
- | the functionality and space saving advantages of sliders |
- | no sharp corners when the window is open |
- | outstanding styling, whether open or closed, for the most ambitious design concepts |

W, THE MOST PRESTIGIOUS ON THE MARKET

## OPTIMAL AIR, WATER AND STRUCTURAL PERFORMANCE

ESSENZA is rated class 4 for air infiltration, with up to 2,000 Pa for wind resistance and 900 Pa for water tightness. This puts ESSENZA at the top of available windows performance and eliminates in one stroke the traditional advantages of casement windows.



## TOP-LEVEL THERMAL PERFORMANCE AND NOISE MITIGATION

ESSENZA provides thermal insulation at the top of the range, and glass soundproofing of 40 dB. This makes ESSENZA ideal for designs in which comfort and privacy are primary requirements. It is thus ideally suited to hotels, wellness centers and office buildings as well as prestigious residential installations.



## SECURITY AGAINST BREAK-INS

Not only does it offer some of the highest levels of security, ESSENZA can be equipped with locks and lift-proofing to further enhance its resistance to break-ins. For a genuine intrusion-proof installation, ESSENZA can also be equipped with laminated glass.



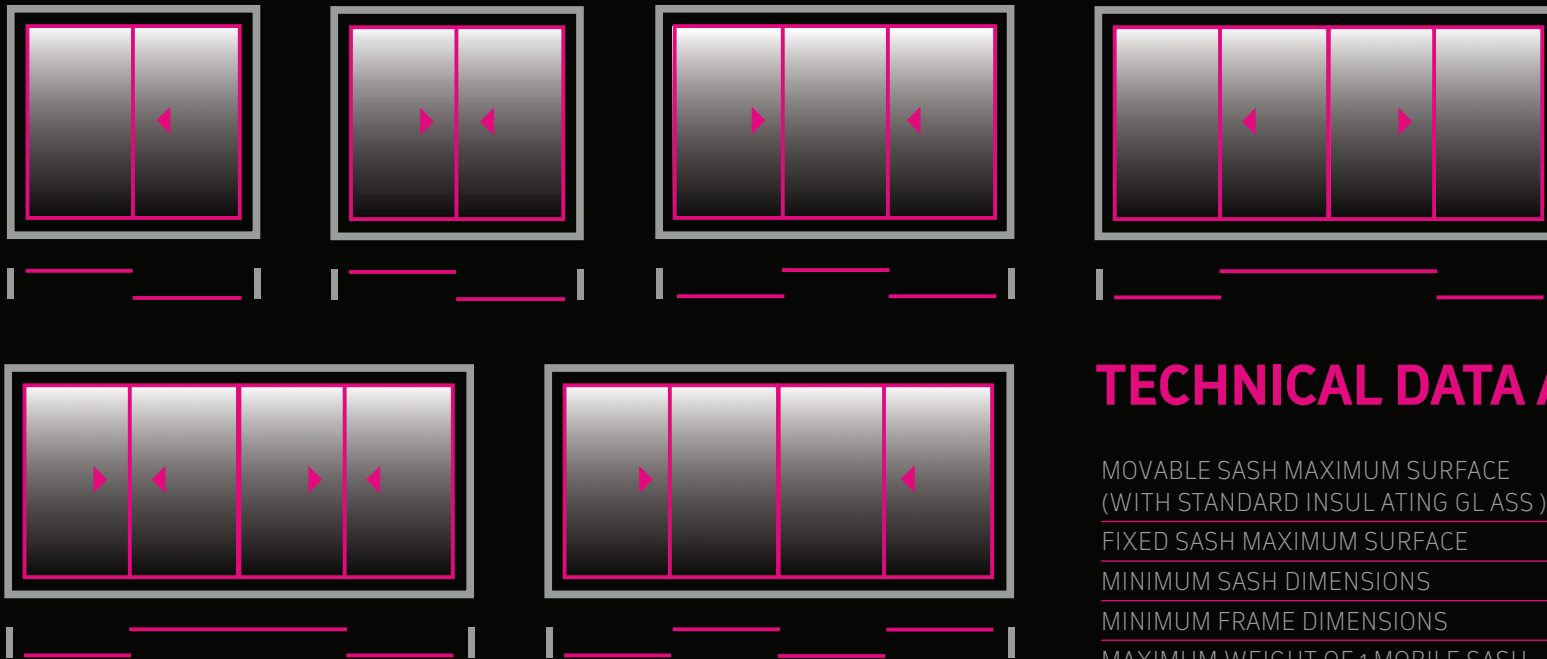
## THE IDEAL WINDOW FOR EXTERIORS AND INTERIORS, WHEREVER UNBEATABLE DESIGN AND TECHNICAL PERFORMANCE ARE REQUIRED

Fascinating homes, wellness centres, luxury hotels. ESSENZA is the evolutionary summit of the external window and divider for rooms with different climatic requirements.



# ESSENZA THE RANGE

## AVAILABLE CONFIGURATIONS



FRAME PROFILE COLOUR	Standard painted: silver metal (372), pure white (410), RAL 9010 white (611), RAL 9005 black (500), RAL 1013 pearl white (430). Standard ox/elox: silver (020), black (190), bronze (060), dark brown (150). Other colours: optional.
GLASS SCREENPRINT COLOUR	Standard: black. Other colours: optional.
LOCK (ON MOVING SASH)	Optional: internal or through.
TAMPER-PROOF CONFIGURATION	Optional: external lock + anti-lift system + option to increase the number of locking points.
HIGH WIND-RESISTANT PROFILES	Steel stiffener in the central section.

## TECHNICAL DATA AND PERFORMANCE

MOVABLE SASH MAXIMUM SURFACE (WITH STANDARD INSULATING GLASS)	4,3 m <sup>2</sup>
FIXED SASH MAXIMUM SURFACE	6 m <sup>2</sup>
MINIMUM SASH DIMENSIONS	0,82 (L) x 1,20 (H) m
MINIMUM FRAME DIMENSIONS	1,70 (L) x 1,30 (H) m
MAXIMUM WEIGHT OF 1 MOBILE SASH	200 Kg
SASH PROFILES	Thermally broken aluminum
ACOUSTIC PERFORMANCE *	40 dB (EN140/3, EN717/1)
THERMAL PERFORMANCE	Up to 1,4 W/m <sup>2</sup> K (with two-chamber glass) Up to 1,8 W/m <sup>2</sup> K (with standard double glazing)
AIR INFILTRATION *	Class 4 (EN12207)
WATER INFILTRATION *	E 900 (EN12208)
STRUCTURAL PERFORMANCE *	Class C4, up to 1.600 Pa (EN12210)
STANDARD DOUBLE GLAZING	4+4/32/8T or 8T/32/8T - T = tempered
TWO-CHAMBER GLASS	4+4/12/6/14/8T or 8T/12/6/14/8T - T = tempered

\* With reference to specific test door configurations.

The possible configurations could change in accordance to special market needs. All performance and technical information of this document are provided as reference. GSG International S.p.A. reserves the right to modify the products shown in this document as needed.

# THE GLASS

COD.	TIPOLOGY	COMPOSITION			PERFORMANCES		
		EXTERNAL PANE	AIR FILLED SPACER	INTERNAL PANE	LT %	SF %	Ug W/m²K
D1	CLEAR	Clear 8T (8 mm tempered)	<b>32 mm</b>	Clear 8T (8 mm tempered)	79	72	2,7
D2		Laminated clear 44.2 (4 mm + 4 mm)	<b>32 mm</b>	Clear 8T (8 mm tempered)	78	67	2,7
D3	EXTRA CLEAR	Extra clear 8T (8 mm tempered)	<b>32 mm</b>	Extrachiaro 8T (8 mm temperato)	83	81	2,7
D4		Laminated extra clear 44.2 (4 mm + 4 mm)	<b>32 mm</b>	Extrachiaro 8T (8 mm temperato)	84	76	2,7
D5	REFLECTIVE WITH SOLAR CONTROL	Reflective 8T dark (8 mm tempered) Solar control on face 1	<b>32 mm</b>	Clear 8T (8 mm tempered)	17	27	2,7
D6	LOW-EMISSION	Clear 8T (8 mm tempered) Low-emission on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	76	56	1,4
D7		Laminated clear 44.2 (4 mm + 4 mm) Low-emission on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	75	50	1,4
D8	LOW-EMISSION SELECTIVE 70/40	Clear 8T (8 mm tempered) Low-emission/selective 70/40 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	69	41	1,4
D9		Laminated clear 44.2 (4 mm + 4 mm) Low-emission/selective 70/40 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	74	47	1,4
D10	LOW-EMISSION SELECTIVE 60/30	Clear 8T (8 mm tempered) Low-emission/selective 60/30 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	59	33	1,4
D11		Laminated clear 44.2 (4 mm + 4 mm) Low-emission/selective 60/30 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	59	34	1,4
D12	LOW-EMISSION SELECTIVE 50/25	Clear 8T (8 mm tempered) Low-emission/selective 50/25 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	49	27	1,4
D13		Laminated clear 44.2 (4 mm + 4 mm) Low-emission/selective 50/25 on face 2	<b>32 mm</b>	Clear 8T (8 mm tempered)	48	28	1,3

COD.	TIPOLOGY	COMPOSITION			PERFORMANCES		
		EXTERNAL PANE	AIR FILLED SPACER	INTERNAL PANE	LT %	SF %	Ug W/m²K
T1	LOW-EMISSION	Clear 8T (8 mm tempered) Low-emission on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	67	48	0,9
T2		Laminated clear 44.2 (4 mm + 4 mm) Low-emission on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	65	41	0,9
T3	SELECTIVE 70/40 AND LOW-EMISSION	Clear 8T (8 mm tempered) Selective 70/40 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	60	37	0,9
T4		Laminated clear 44.2 (4 mm + 4 mm) Selective 70/40 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	62	39	0,9
T5	SELECTIVE 60/30 AND LOW-EMISSION	Clear 8T (8 mm tempered) Selective 60/30 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	52	31	0,9
T6		Laminated clear 44.2 (4 mm + 4 mm) Selective 60/30 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	52	28	0,9
T7	SELECTIVE 50/25 AND LOW-EMISSION	Clear 8T (8 mm tempered) Selective 50/25 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	43	27	0,9
T8		Laminated clear 44.2 (4 mm + 4 mm) Selective 50/25 on face 2	<b>12 mm</b> Clear 6T <b>14 mm</b>	Clear 8T (8 mm tempered) Low-emission in face 5	43	23	0,9

## Legenda

LT: Light Transmittance

SF: Solar Factor

Ug: Thermal Transmittance

All insulating glass units with a laminated external pane can be made sound-proof. Performance data are taken from producer's documentation.

ESSENZA™  
The full glazed window