

BATIMAT 2022
PREVIEW

Pial[®] Element

The stackable roller shutter
with external modular box





Plial® Element

The optimal solution for the installation of roller shutters with external box directly on the building façade.

1

LOW VISUAL IMPACT

on the building façade compared to conventional roller shutters with external square box, thanks to the long-established slat stacking system that gives the box a slim and compact look.

2

FLAT SHUTTER CURTAIN SURFACE

Thanks to the special straight slat geometry, the roller shutter keeps in harmony with the building façade, removing any curved surface.

3

GUARANTEED PERIMETRAL BLACKOUT

Designed to prevent any possible passage of light around the perimeter of the window, even without a window sill.

4

FITTING TO ALL SITUATIONS

Thanks to the modular box that can be extended to multiple windows, almost infinite combinations are possible.

5

CARE OF THE DETAILS

The special design of side guide rail profiles removes all normally visible fasteners, such as screws or hole caps.



Plial® Element in detail

Roller shutter with 2 slats stacking system, compact, silent and reliable.



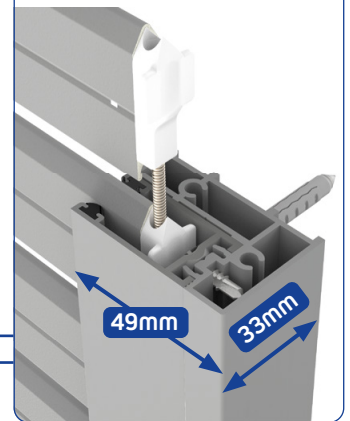
Reinforced structural roller shutter box, equipped with a dedicated rear groove for the sealing of the area between the box and the building façade. Box available in 3 standard sizes:
S: 130x310;
M: 130x370;
L: 130x430.

130mm



Side guide rails mounting profiles: the side guide rails of the roller shutter are screwed directly to the respective mounting profiles quickly and safely.

Aluminium front panel for roller shutter inspection, equipped with **safety fall arrest system**. Dust- and water-proof component closure.



49mm

33mm

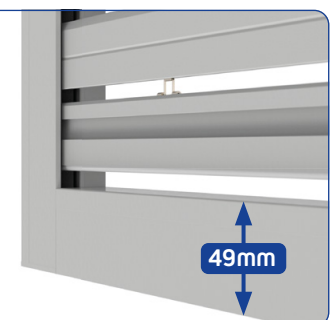
Shutter curtain with 40-mm-high distanceable straight slats filled with a CFC-free polyurethane foaming to improve insulation and stability of the shutter curtain.

End caps (optional), which can be used when there is no window sill: unlike to the blackout profile, end caps do not prevent the passage of light along the bottom bar area.


Self-supporting side guide rails which eliminate uncomfortable vibration noise of the shutter curtain caused by the wind.



Blackout profile (optional) which can be used when there is no window sill: when the shutter curtains is fully closed, it guarantees the blackout along the bottom bar area.



49mm

 Component to be fixed on the building façade.

Technical data

	Box sizes		
	S	M	L
Box height (kh)	310 mm	370 mm	430 mm
Box depth (kt)	130 mm	130 mm	130 mm
Maximum opening height (hl)	1'380 mm	1'850 mm	2'380 mm
Minimum opening height (hl)	400 mm	400 mm	400 mm
Width of construction (bk)			
• minimum with motor	595 mm	595 mm	595 mm
• minimum with radio motor	685 mm	685 mm	685 mm
• maximum	2'725 mm	2'725 mm	2'725 mm
Maximum box width (kb) ⁽¹⁾	3'200 mm	3'200 mm	3'200 mm
Side box extension (kvr = right extension) (kvl = left extension)			
• minimum without drive	25 mm	25 mm	25 mm
• minimum with motor	25 mm	25 mm	25 mm
• maximum	500 mm	500 mm	500 mm
Distance between adjacent side guide rails (u)			
• minimum without drive	0 ; 25 mm	0 ; 25 mm	0 ; 25 mm
• minimum with motor	0 ; 25 mm	0 ; 25 mm	0 ; 25 mm
• maximum	500 mm	500 mm	500 mm
Maximum surface area (bk x hl)			
• with motor drive			
- single shutter curtain	3.8 m ²	5 m ²	6.5 m ²
- coupled shutter curtains	4,3 m ²	5,8 m ²	7,5 m ²
Coupled shutter curtains			
• number of shutter curtains that can be coupled with a single drive	2 or 3 shutter curtains	2 or 3 shutter curtains	2 or 3 shutter curtains
• middle control side with motor drive	not possible	not possible	not possible
Independent shutter curtains with common roller shutter box			
• maximum number of independent shutter curtains	3 shutter curtains	3 shutter curtains	3 shutter curtains
• middle control side with motor drive	possible	possible	possible
Slats stacking system	2 slats	2 slats	2 slats
Shutter curtain unfolding	inwards	inwards	inwards
Drive type	motor	motor	motor
Weight per meter (only roller shutter box)			
• rear structural box	4,3 kg/m	4,6 kg/m	4,9 kg/m
• inspection front panel	2,2 kg/m	2,5 kg/m	2,7 kg/m
• total	6,5 kg/m	7,1 kg/m	7,6 kg/m
Weight of shutter curtain per m ² (bk x gh)	3,5 kg ca.	3,5 kg ca.	3,5 kg ca.

Optional on request

- Blackout profile
- End caps for side guide rails
- Sealing tape to be applied to the rear box groove
- Special colours and imitation wood
- Obstacle detection motors and bidirectional radio motors

⁽¹⁾ Box width kb = bk + kvl + kvr + u