

Vertical landing door in the form of the Premium S4 lifting gate

UK

The Munich door specialists Meiller Aufzugtüren GmbH have been offering their Genius Plus roller shutter door as a car door for more than ten years. Around two years ago, the range was extended by the addition of the Premium K4 vertical lifting gate, as an alternative.

This led to the idea of marketing a vertical landing door for particular types of lift. So in January of this year, Meiller began offering precisely that, in the form of the Premium S4 lifting gate. This vertical gate is primarily intended for lift installations in which there is insufficient space for standard horizontal doors.

Both in industrial and in many retail locations, there are still many lifts in operation with swing doors but no car doors.

Automatic doors are frequently required in such situations, due to the faster, optimised logistics (for example faster loading and unloading) involved.

Furthermore, particularly in the German automobile industry, there are still many old, motorised folding landing doors in operation, for which no replacement has been offered on the market to this day, with the exception of swing doors, but these only have the effect of further lowering lift performance.

It is in such cases that the combination Premium K4/S4 vertical lifting gate as a car and landing door makes sense.

The Premium S4 is a four-section telescopic landing lift gate that is raised vertically and is fitted with its own drive. It uses the tried and tested Siemens ADT 401W with blocking detection and automatic reversing.

The head section is in the form of a closed box construction with side panels made from 2.0 mm sheet steel for high stability and protection from falling dirt.

The door panels are of a welded construction and are made of 1.5 mm sheet steel with reinforcing ribs, each running in the guide rails on 2–3 guide elements, connected together by a chain system, with steel chain wheels to protect against jump out; the guides

can be replaced without dismantling the door panels. The tracking rails in which the guides with plastic sliders run are made of aluminium.

The height above CDH is approximately $\frac{1}{4}$ CDH + 350 mm. The door is designed for shaft wall installation and is fitted with mounting brackets at the top and sides. The sill is made from U-profile structural steel, and it is primed and comes with fixing brackets.

The type-tested Premium S4 landing door is available in the following dimensions: door width: 700–3,000 mm, door height 1,800–4,000 mm. It is generally supplied in powder-coated finish but it can alternatively be supplied with the door leaves in V2A paneling. It naturally complies with all common standards, including EN 81-20.

The forces familiar from the standard (for horizontal doors), such as a closing force of 150 N or maximum kinetic energy for closing doors of 10 J are all complied with.

The top of the frame is fitted with an illuminated LED ribbon strip that flashes when the door panels close. Additional safety can be provided by fitting a light curtain to the front of the landing door.

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