GILGEN DOOR SYSTEMS

SWING DOOR DRIVE UNIT
GILGEN FD 20

This low-noise electromechanical drive mechanism is suitable for both lightweight internal and heavyweight external doors with high wind loads and heavy footfall. The high-performance drive mechanism is vandal-resistant, making it suitable for any location.

- Compatible with single/two-leaf doors and interlock accesses
- The integrated load function guarantees resistance against high wind loads
- Controlled, spring-actuated closure with motor assistance
- The drive mechanism has a built-in travel stop
- Test-approved "inverse" power-down opening function to let smoke escape and act as an emergency exit
- Freely selectable Full Power and Low Energy functions in a single drive mechanism
- Terminals for connecting accessories such as locks, security/safety elements or operating controls
- Voltage-free outputs for acknowledgements to, for example, the building management system (via relay PCB)
- Fire resistant up to 4 Hours

Range of application

Max. door leaf weight	250 kg
Door sizes single-leaf	750 – 1600mm
Door sizes two-leaf	1500 – 3200mm
Max. opening angle	105°
Max. wind speed	see charts*

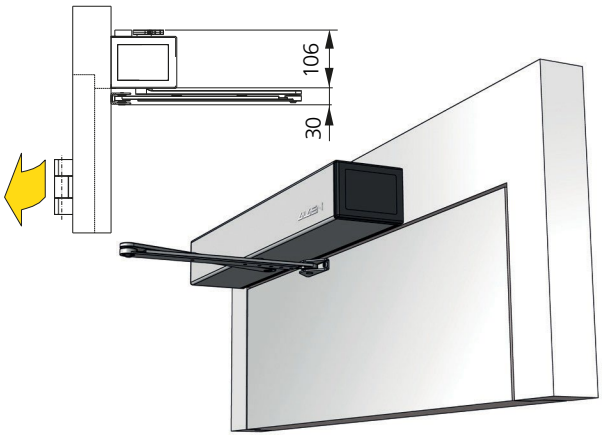
*depending on door size and type of rod

Dimensions of drive system

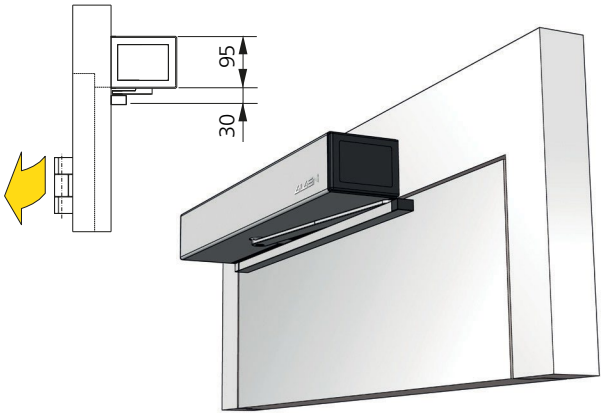
Height	95 mm
Width	690 mm
Depth	120 mm

Possible applications

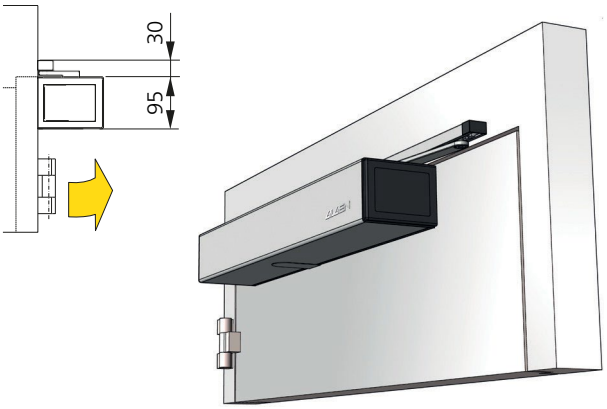
Standard rods with pushing function
Lintel installation



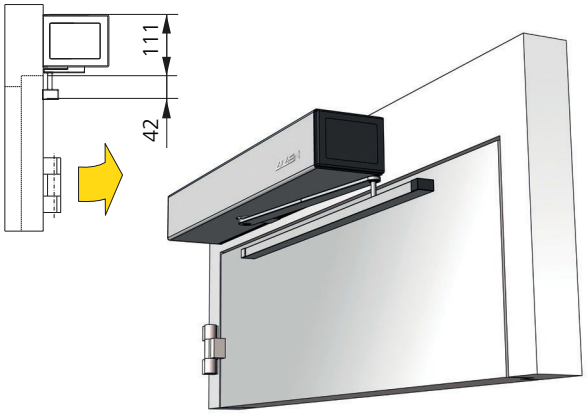
Sliding rods with pushing function
Lintel installation



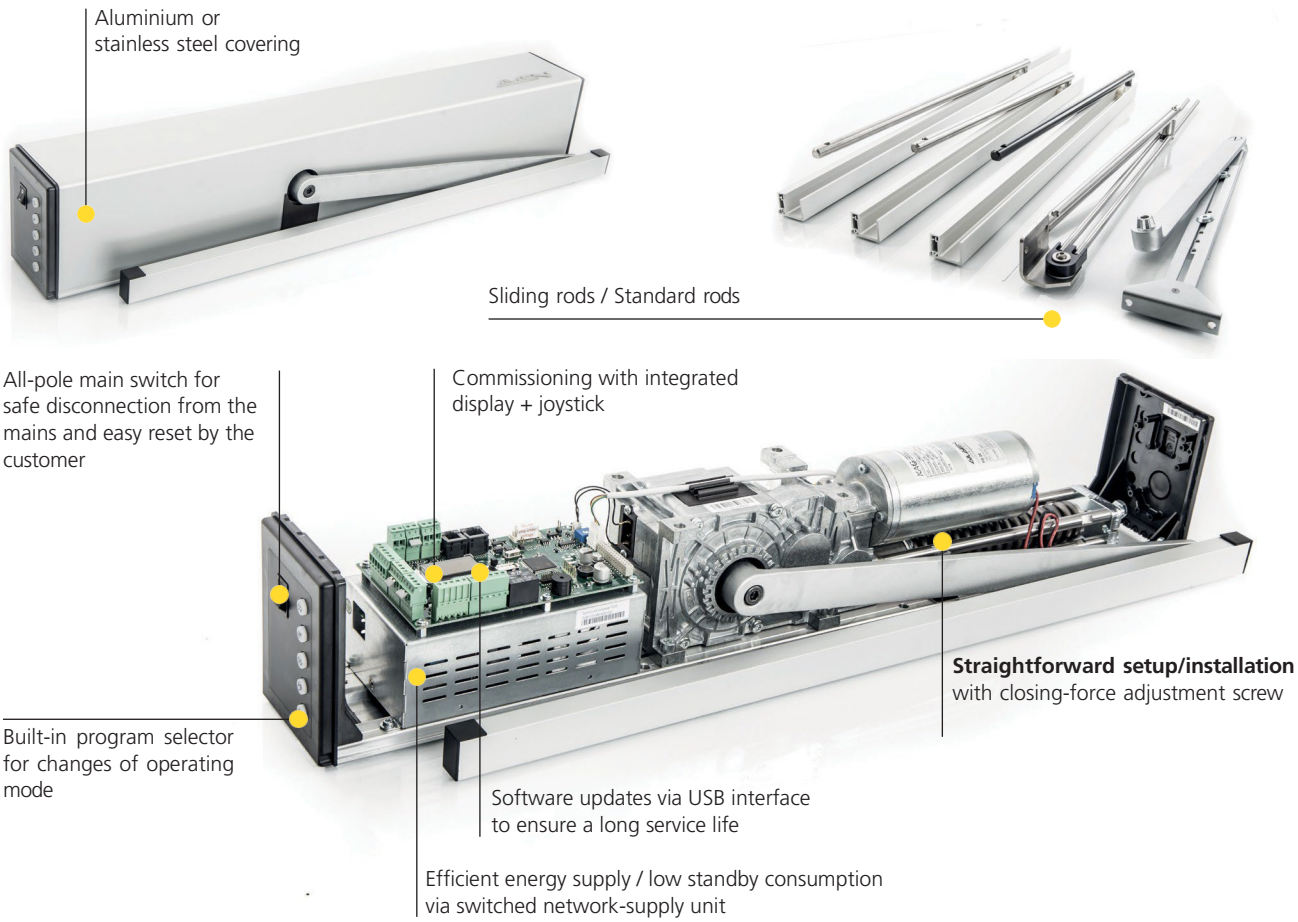
Sliding rods with pushing function
Door leaf installation



Sliding rods with pulling function
Lintel installation



Technical data



Power transfer	Standard rods (pushing function) Sliding rods (pushing and pulling function)
Weight of drive system	10.5 kg
Protection rating	IP 40 (42)
Ambient temperature	-15 to +50 °C
Operating voltage	230 VAC (+10/-15 %), 50 Hz, 10/13 A
Power consumption of drive system	max. 560 W
Rated motor capacity	100 W
Stand-by consumption	4 W
Power supply, external user	24 VDC (±10 %), 2 A
Lintel depth standard rods	max. 250 mm
Lintel depth sliding rods	-30 / +200 mm
Opening speed	max. 40°/s
Closing speed	max. 40°/s
Relative humidity	max. 85 %
Output shaft torque	permanent max. 80 Nm short max. 240 Nm

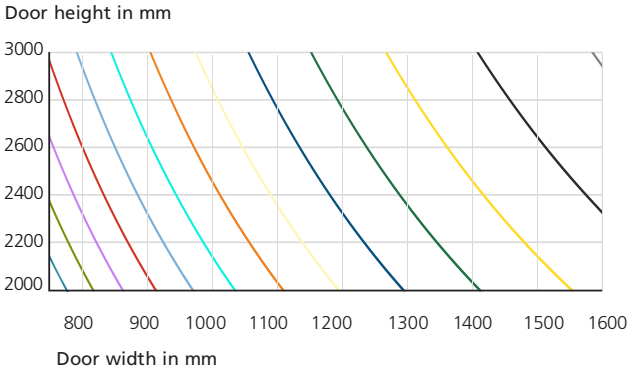
The Gilgen FD 20 withstands high wind-load stresses

The power of the Gilgen FD 20 drive unit for swing doors is sufficient for reliably opening and closing doors even when exposed to high wind speeds.

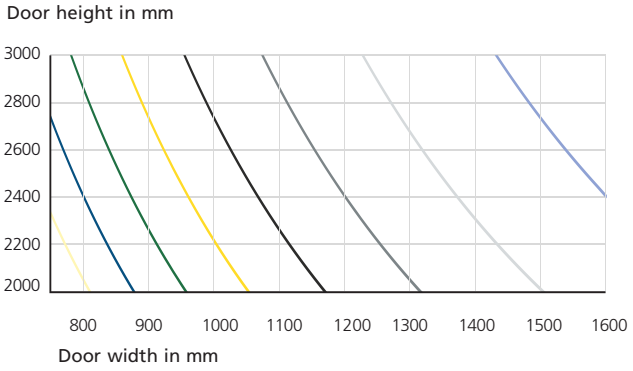
For external doors, Gilgen Door Systems recommends to assume a wind pressure of at least 100 Pa (45km/h). Doors installed in certain exposed locations (e.g. near the sea, in mountainous regions, on observation platforms, etc.) are often subject to higher wind loads.

The data in the following tables correspond to fully-secured doors with safety-sensor systems. The presented application limits result from wind-load, door size and type of rods.

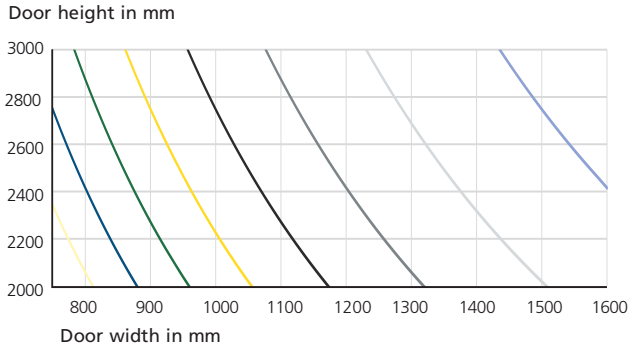
Standard rods with pushing function
Lintel installation



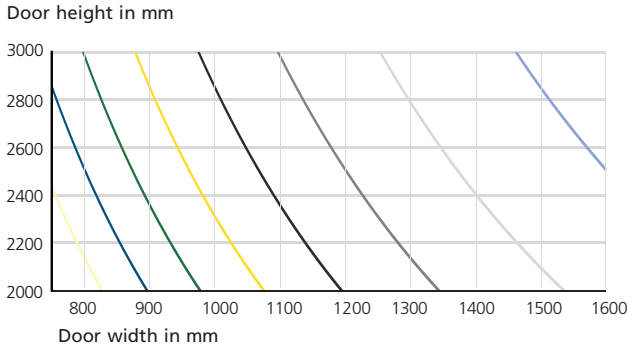
Sliding rods with pulling function
Lintel installation

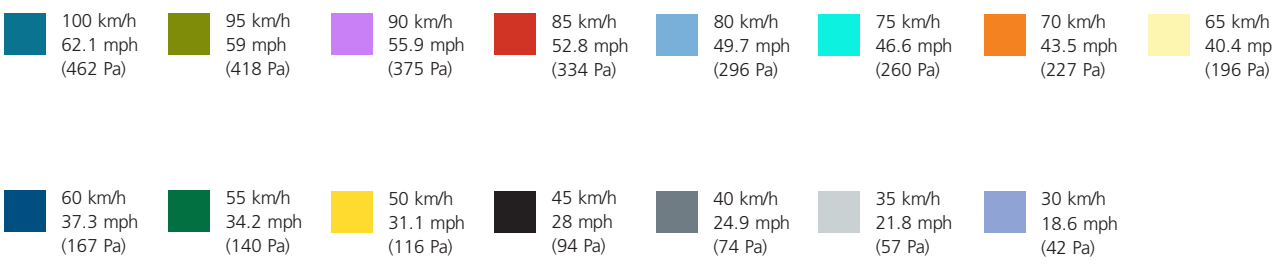


Sliding rods with pushing function
Lintel installation



Sliding rods with pushing function
Door leaf installation





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