Thermal Commercial Sliding Door Systems

Horton AUTOMATICS

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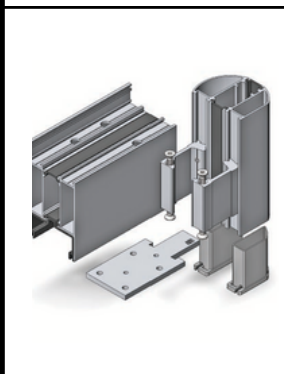
Horton 2021+ sliding door system; a thermally efficient design, suitable for installation in education, healthcare, retail & commercial settings, where focus on climate change and a drive towards net zero is of growing importance.

This fully compliant thermal commercial sliding door system is designed for high traffic footfall, and is available with both manual & electronic locking options.

The slimline profile of our Horton 2021+ operator, combined with the durable Kestrel thermal sections provide a robust entrance solution without compromising aesthetics.

A U-Value of 1.8 is achievable, based on using 28mm laminated double glazed units.

All of our Horton 2021+ sliding door systems are supplied and fitted with pocket safety screens* (we offer both framed & frameless options) to ensure the highest levels of safety and compliance (BS EN:16005) *Rear door safety sensors can be fitted in instances where lower levels of safety are called for.
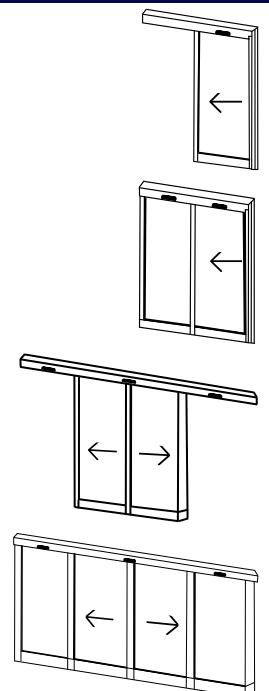
SYSTEMS:

Thermally broken single sliding door package with pocket safety screen.

Thermally broken single sliding door package with fixed screen & pocket safety screen.

Thermally broken bi-parting sliding door package with pocket safety screens.

Thermally broken bi-parting sliding door package with fixed screens & pocket safety screens.
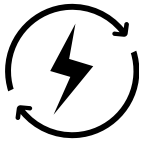
When might a thermally broken door be required?

Thermally broken aluminium doors are a great solution for buildings requiring high-levels of thermal insulation, without sacrificing durability and easy access.
Below are some of the associated benefits of selecting thermally broken aluminium doors:

Energy Efficiency:
The use of thermal breaks in an aluminium frame reduces the heat transfer, resulting in a more energy efficient building.

Durability:
Aluminium is a heavy-duty, lightweight material able to withstand hard weather conditions, ensuring longevity and robustness.

Aesthetics:
Aluminium doors are versatile, able to be customised to fit any design style, with the option of a range of colours and finishes.

Accessibility:
Aluminium doors are easy to operate and can be fitted with a variety of hardware options, such as automatic operators to provide ease of access to all users.

Sustainability:
Aluminium is a highly recyclable material, making it an eco-friendly option for buildings.

Technical Specification

	Single Door	Double Door
** Dependant on weight of door leaf		
Application	Commercial, new build, and refurbishment.	
**Maximum Width **	1.6m	3m
**Maximum Height **	2.8m	2.8m
Jointing	Mechanical	Mechanical
Internally beaded option	Yes	Yes
Glazing options	Will accept insulating glass units and infill panels 28-47mm thick.	
Finishes	Mill finish. SAA Polyester Powder Coat paint finish	
Option	Single or dual colour to any RAL/BS colour	
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys. BS 4873:2016 Specification for aluminium alloy windows and doorsets. BS EN 14351-1:2006+A2:2016 Windows and doors, performance characteristics. BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters.	
Application	Automatic with the Horton 2021+ sliding door operator. Please refer to separate data sheet.	
Manual Locking	Cylinder operated, fitted with cylinder hooklock externally and cylinder or thumb turn internally.	
Electric Locking	Electromechanical auto lock within the Horton 2021+ sliding operator.	
Automatic Options	Radar, combination activation & presence sensor, push buttons, touchless switches. Access control compatible.	
Pocket Safety Screens	Available supplied & fitted: • Full height aluminium framed and glazed (6.4mm clear lam) pocket safety screens in a PPC finish. Pivoted or hinged designs available. • Frameless pivoted pocket safety screens constructed from Horton PPC top and bottom rails, with 12mm clear toughened glass.	

Sliding Door Operator Data Sheet

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2021+ and 2021+HD Sliding Door Operator

2021+ slim-line sliding door operator for continuous and intensive service. A compact design with power, suitable to operate large and heavy doors

Key Features

- Slim-line design
- Designed for high traffic entrances
- PPC cover to any standard RAL Colour
- Available in Standard and HD version
- Available as operator only, or with; standard commercial narrow style Aluminium framed doors, ultra narrow European style Aluminium framed doors, thermally broken commercial Aluminium framed doors and all-glass Elegant® design.
- 5 position key switch; 2 way operation, 1 way exit, hold open, summer/winter opening
- Connectivity to safety sensors; also monitoring and conformity to BS EN 16005

- Compatible with different activation trigger devices such as radar, push pad and access control
- Available with integral electro-mechanical locking
- Optional connection to BMS (Building Management System) and Fire Alarm
- Monitored Power battery backup for fail safe operation
- New carriage with two rollers; increased diameter and adjustable
- Parameters setting directly on board by using push button display
- Framed and Frameless Pivoted Pocket safety screens available, to fully enclose door leaves through travel area
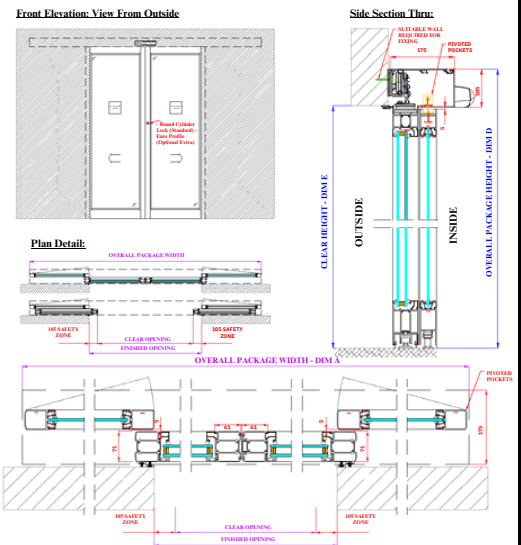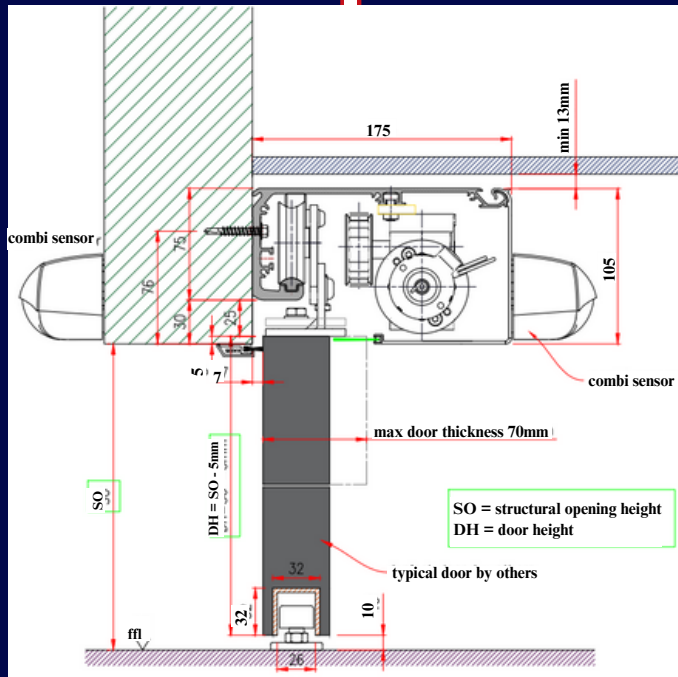
Technical Data

Dimensions (h x d)	105x175mm
Weight	11 kg/m
Operating Temperature	-10oC > +55oC
IP rating	IP20
Service	Continuous
Power supply	230v AC 50/60Hz
Power Unit	24 Vdc Motor with integrated encoder

Power external devices	15V DC—12W Max
Rated Power	150 W
Maximum Opening Speed	1 wing: 70cm/s 2 wing: 140 cm/s
Maximum Closing Speed	70% of Opening Speed
Locking	Electro-mechanical
Maximum Payload	1 Wing: 140 kg (HD 160kg) 2 Wing: 100k+100g (HD 140k+140g)
Conformity	CE

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Tel: **01952 678548** Email: **sales@horton-automatics.ltd.uk** Web: **www.hortonautomatics.co.uk**