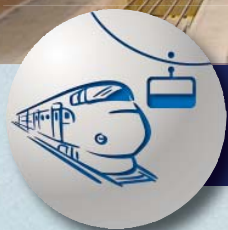


PLATFORM SCREEN DOORS

Rolling stock mechanism

PERFORMANCE & SECURITY for RAIL STATIONS

What is more reassuring than a safe platform preventing travellers from going down on the railway or any other area where danger is great ?



RAIL STATION, SUBWAY, FUNICULAR CABLE RAILWAY



Automatic Platform Screen Doors

Transporting people by rail requires to prevent travellers from going down on the railway where danger is high. For safety reasons and passengers' comfort, the use of PSDs to access trains is obvious.

Platforms screen doors consist in many set of automatic door modules making up a long line of doors isolating the travellers on platforms from rails.

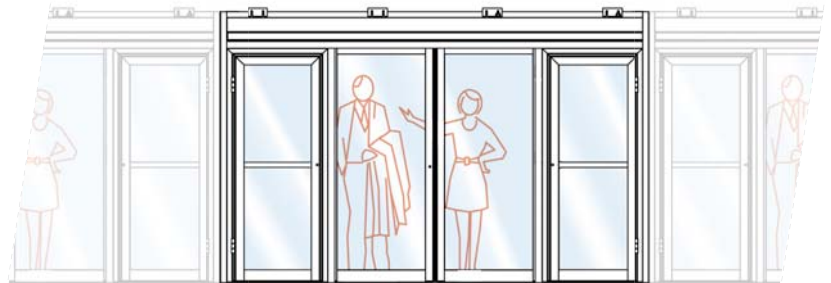


Full-height Platform Screen Doors

The door module consists of one or several automatic doors driven by a powerful DIVA operator, suitable for this specific project.

An electric lock, that hangs down by gravity, secures the door leaves when closing. The unlocking for opening only operates when the train cab is in front of the platform door. In case of power failure the door also remains closed.

The automatic door is combined with semi-fixed leaves equipped with antipanic handles which can be used in case of an emergency.

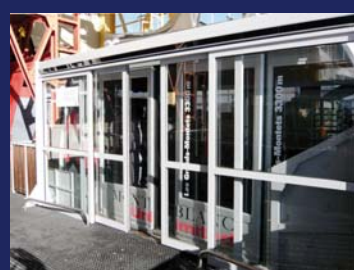


STANDARDS	
CE	Electromagnetic compatibility : directive 2004/108/CE, electrical safety - low tension: directive 2006/95/CEE, construction products: directives 89/106/CE and 93/68/CE, Machines : directive 2006/42/CE
EN 61000-6-3	CEM : Issue for the residential, commercial environments and of the light industry.
EN 61000-6-2	CEM : Immunity for the industrial environments.
EN 60335-1	Safety of electrodomestic devices and similar.
EN 13849-1	Safety of machines – Parts of the control systems relative to the safety.

MECHANICS	
Installation	Platform ground / ceiling
Structure	Aluminium / Steel
Passage width	800 to 2900 mm
Max passage height	3100 mm
Max Leaf weight	2 x 150 kg

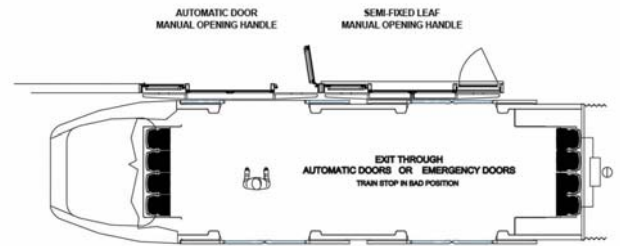
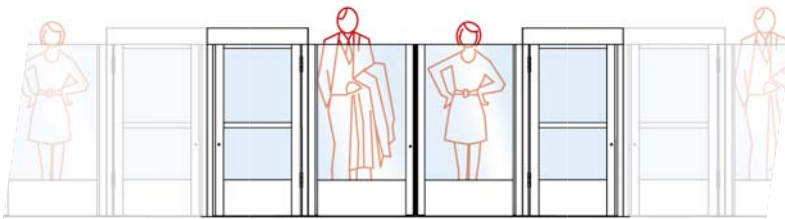
OPERATOR PERFORMANCES	
Opening speed	10 to 100 cm/s per leaf
Closing speed	10 to 30 cm/s per leaf
Temporization, Hold open time	1 to 15s
Opening force	6 to 25 daN
Closing force	6 to 15 daN

ELECTRICAL ENVIRONMENT	
Power supply	Mains 50-60 Hz, 230V 10% with earth
Max./Average absorbed power	500W / 50W
Motor voltage / Emergency battery	40 Vcc / 12 Vcc (12W)
Relative humidity	10% to 93% without condensation
Operating Temperature	-20°C / +60°C





Half-height Platform Screen Doors



The door module is made of 2 automatic doors (left and right side). Each one is driven by a powerful DIVA operator, suitable for this specific application.

An electric lock, that hangs down by gravity, secures the door leaves when closing. The unlocking for opening only operates when the train cab is in front of the platform door. In case of power failure the door also remains closed.

The automatic doors are combined with semi-fixed leaves equipped with antipanic handles: In case of emergency, the door can be unlocked with manual handles on the track side leaf. Passengers can also go out by opening emergency semi-fixed leaves.

MECHANICS

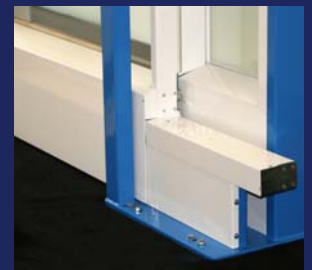
Installation	Platform ground
Structure	Aluminium / Steel
Passage width	1500 to 2400 mm
Passage height	1500 to 1700 mm
Leaf weight	100 kg
Glazing	Tempered glass 10mm

OPERATOR PERFORMANCES

Opening speed	10 to 100 cm/s per leaf
Closing speed	10 to 60 cm/s per leaf
Temporization, Hold open time	1 to 15s
Opening force	6 to 25 daN
Closing force	6 to 15 daN

ELECTRICAL ENVIRONMENT

Power supply	Mains 50-60 Hz, 230V 10% with earth
Max./Average absorbed power	500W / 40W
Motor voltage / Emergency battery	40 Vcc / 12 Vcc (12W)
Relative humidity	10% to 93% without condensation
Operating Temperature	-20°C / +60°C



Some worldwide references



TRANSPORT



AIRPORTS

France: EUROTUNNEL . TIGNES ELEVATOR . LES 2 ALPES FUNICULAR . VENOSC CABLE RAILWAY
LES 2 ALPES . VAUJANY STATION LANGRES FUNICULAR . CAUTERETS CABLE RAILWAY STATION
LES MORIONDS . COURCHEVEL LA PLAGNE CABLE RAILWAY LES ARCS CABLE RAILWAY . LES
MENUIRES ELEVATOR . TIGNES FUNICULAR STATION AIGUILLE DU MIDI STATION . CHAMONIX
BREVENT CABLE RAILWAY . CHAMONIX LA FEGÈRE CABLE RAILWAY . CHAMONIX ROCHEBRUNE
CABLE RAILWAY MEGÈVE . EDF FUNICULAR PENLY . AIRPORTS OF: NICE-CÔTE D'AZUR . LA
ROCHELLE . AJACCIO . BASTIA . TOULOUSE BLAGNAC MONTPELLIER . NANTES . METZ NANCY
CLERMONT-FERRAND . EUROAIRPORT MULHOUSE BÂLE . LYON SAINT EXUPÉRY ROISSY CDG
PARIS . HYÈRES . LIMOGES **Alaska:** AERIAL TRAMWAY **Canada:** INCLINED ELEVATOR QUEBEC.
CABIN LIFT QUEBEC **Czech Republic:** ČESKÁ TREBOVÁ RAILROAD . LETOHRAD RAILROAD
PARDUBICE RAILROAD . ROSICE NAD LABEM RAILROAD **Egypt:** CAIRO AIRPORT **England:**
LONDON EYE **Guadeloupe:** ST BARTHÉLÉMY AIRPORT **India:** AMRITSAR AIRPORT **Italy:** VALERIO
CATULLO AIRPORT . TORINO RAIL STATION . NAPOLI RAIL STATION . PERRUGIA MINI-METRO .
MENDOLA FUNICULAR **Morocco:** CASABLANCA AIRPORT **Portugal:** SATUOEIRAS PLATFORMS &
SHUTTLES STATION **Reunion island:** ST PIERRE PIERREFOND AIRPORT **Spain:** DEL PRAT AIRPORT,
BARCELONA . FGC BELLATERRA RAILWAY STATION, BARCELONA . FGC SARRIA RAILWAY STATION,
BARCELONA **Switzerland:** ZÜRICH AIRPORT . ZINAL CABLE RAILWAY **USA:** ASPEN, COLORADO
FUNICULAR RAILWAY, NEW-YORK CITY CABLE RAILWAY **Vietnam:** HANOI AIRPORT ...




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