

FAAC
Simply automatic.

PRODUCT CATALOGUE

Valid from 02/2018

AUTOMATIC DOORS



BOLOGNA FC
Bologna Football Club
2017/2018 Main Sponsor
Serie A

THE AUTOMATIC DOORS VIDEO DIRECTLY ON YOUR SMARTPHONE

Scan the **QR Codes** below and see them in action!



A1400 AIR



SKR35



GBF 3500



A951



GBF 1500-1600



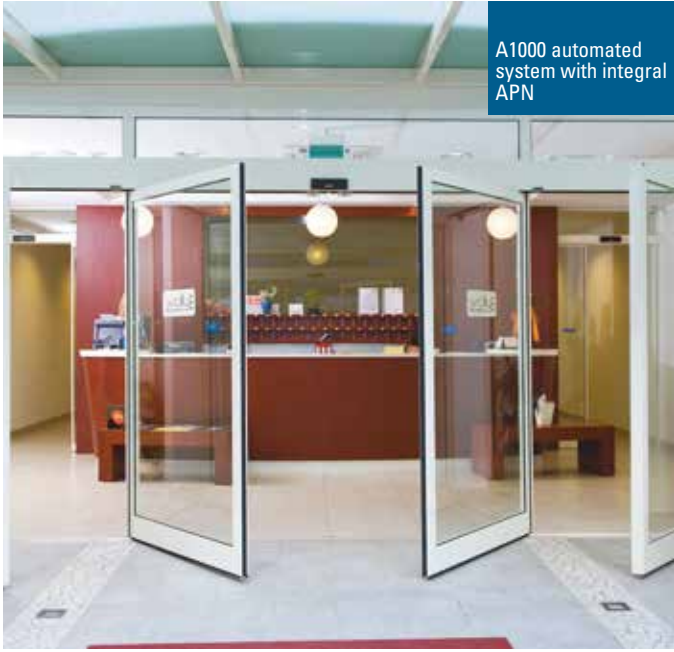
950N2



AIRSLIDE



SF1400



A1000 automated system with integral APN



SF1400 Folding door



A1400 AIR RD Sliding door



A1400 telescopic door with AIRSHIELD and automatically resetting anti-panic breakout system



Automatic anti-break-in security entrance SKR35



A1400 AIR RD T2 entrance with AIRSLIDE

SAFE & GREEN. The symbols of innovation.

SAFEzone.
Everything is simpler,
everything is safer.



With SAFEzone, FAAC identifies systems conducive to more convenient installation of automation systems in compliance with the requirements of the European Directive currently in force (Machinery Directive 2006/42/EC) on safety.

SAFEzone are FAAC systems that use new electronic control boards to permit not only the installation of fully compliant systems but also the upgrading of existing FAAC installations to comply with the latest standards, without having to replace the automated systems themselves.

In particular model A1000, A140 AIR and A1400 AIR RD automated systems are compliant with the new **European Standard EN16005** and its provisions on safety of use. Specifically, the A1400 AIR RD is certified by TÜV as an automated system for doors on escape routes.

As well as attesting to the well known level of safety in leaf movement management, thanks to the use of precision encoders, they have been further enhanced with new features, such as the **LOW ENERGY** movement (low-kinetic energy level movement, which is not considered dangerous by the EN16005 Standard even in the event of accidental impact) and the management of the new range of **FAAC MONITORED sensors**.

SAFE & GREEN is FAAC's proposal for a new approach to the world of automation.

FAAC launches new solutions and systems able to respond effectively to the important issues:

- **the safety of automation systems** in compliance with the requirements of European Directives and regulations in force.
- **the reduction of energy consumption**, for reduced environmental impact and consequently cost savings for the end user.



GREENtech: the most natural choice to save energy.

With GREENTECH, FAAC identifies systems and/or devices which are a combination of latest generation electronic control boards and mechanical innovations and innovative patented solutions that allow a significant reduction of energy consumption and on-going installation running costs such as:

- use of switching power supply devices with very high efficiency instead of traditional laminated or toroidal transformers on the control boards;
- opening and closing time optimising systems (Energy Saving) of pedestrian ways (automatic doors)
- control units that can enable stand-by modes to reduce power consumption when the automatic system is not in operation;

The aim is increased environmental friendliness and tangible advantages for the end user, stemming from the quantifiable reduction in energy costs for managing the automation system. All the above is achieved without jeopardising the high performance level of FAAC automated systems.

All SAFEzone and GREENtech automated systems are immediately identifiable by the dedicated logo.

Automated systems for sliding doors

A1000

Automated systems for sliding doors

Passage opening
700 - 3.000 mm
Max. leaf weight
110 - 2x70 Kg

• Thanks to its specifications the A1000 is suitable for every architectural environment also in **small places**
• **Therapy** for multiple use, A1000 is suitable for single leaf sliding doors weighting 110 Kg
• **Double leaves sliding doors** weighting 70 - 70Kg

EN16005 CE

EXAMPLE OF PRODUCT DATA SHEET.
List of products or product combinations that allow the automated system to be identified as SAFEzone and/or GREENtech.

Quality has rules.

Performance, reliability and price are the basic requirements behind all FAAC products.

To maintain the same high quality levels that have always characterised our products, FAAC has invested constantly in technology, advanced production methods and organisation. All personnel in our organisation are committed to respecting our corporate policies and values on a daily basis, and to the continuous improvement of every activity performed within the FAAC group.

Certification is as important as innovation.

FAAC and certification go hand in hand. For a start, FAAC's Quality Management System is certified to UNI EN ISO 9001:2015.

The most important certification is our DNA.

Our trade marks, patents and certifications all testify to and confirm FAAC's unique business philosophy, which we have always considered "the most important certification of all".

Continuous commitment to component and product quality, careful selection of suppliers, and scrupulous production process quality control, since 1965 have made the FAAC brand a worldwide by-word for high quality, reliability, conformity to standards and end user safety.



Innovation, step by step



Identifies the electronic control unit compatible with external modules that allow the remote management of automations. If the control unit is standard supplied, the product is identified with the following logo.



Identifies automatic doors fitted with a device that identifies the direction of movement and assesses a person's intention to go through the doorway, and uses this data to optimise opening and closing times and prevent needless loss of indoor air.



Microwave sensor



Infrared sensor



Double technology sensor



Touch button



Photocells

Consultation guide

The FAAC Automatic Doors price list has been completely redesigned. Below a few indications as general consultation guidelines.

Symbols indicating product's use

Product Family

A1000

Automated systems for sliding doors

Technical data

Passage opening
700 - 3.000 mm

Max. leaf weight
110 - 2x70 Kg

• Thanks to its small dimensions the A1000 is suitable for every architectural environment also in case of small places
• Thanks to its multiple use, A1000 is suitable for single leaf sliding doors weighing 110 Kg or double leaves sliding doors weighing 70 + 70 Kg.

Product's plus

safe zone green tech EN16005 CE

TECHNICAL SPECIFICATIONS

Model	A1000
Power supply voltage	110-120 V- / 220-240 V-- 50/60 Hz
Max. power	100 W
Use frequency	100%
Motor	Motor powered at 36 V +- with encoder
Max. accessories load	1A - 20V +-
Type of traction	By means of an electro-conductive toothed belt
Opening leaf time	5 + 70 cm/s (1 leaf) - 10 + 140 cm/s (2 leaves)
Closing leaf time	5 + 70 cm/s (1 leaf) - 10 + 140 cm/s (2 leaves)
Partial opening adjustment	10% - 90% of total opening
Pause time	0 - 30 s
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN 16005)	As standard (may be excluded)
Low energy movement (EN 16005)	As standard (may be excluded)
Operating ambient temperature	-20°C + +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005, EN 61000-6-2, EN 61000-6-3

Product Family Models

Item code	Model	Leaf	Passage opening mm	Max. leaf weight kg	Self-supporting (head section length) mm
105296C	A1000	single	700 + 3000	110	no
	A1000	double	800 + 3000	70 + 70	no

List of the items included

THE COMPLETE A1000 AUTOMATED SYSTEM CONSISTS OF THE FOLLOWING COMPONENTS:

E100 CONTROL UNIT

- Microprocessor control unit
- E100 with incorporated motor block, battery and photocell boards
- 115/220 V- switching power supply unit
- Removable terminal boards
- Programming via SD KEEPER function keypad
- Programming of basic functions via wireless SDK radio control: automatic, night, open door, mono-directional, partial, manual
- Automatic adjustments
 - Definition of open and closed positions
 - Measurement of leaf mass and friction
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 1 configurable output contact
- 2 configurable emergency input contacts
- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function
- LCD display to view statuses and fault diagnostics

• 3 buttons for basic programming of:

- opening and closing speed
- pause time
- night pause
- motor block
- battery
- monitored protection sensor management
- acceleration and deceleration ramps
- opening and closing thrust force
- thrust force time
- motor on motor lock
- night function input delay
- USB port for software update

DRIVE UNIT COMPLETE WITH:

- Gearmotor powered at 24 V with optical encoder
- E100 Control unit
- Return pulley with screw adjustment device for belt tensioning
- Electro-conductive transmission belt
- 2 carriages (A100 COMPACT 1 leaf) or 4 carriages (A100 COMPACT 2 leaves)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

SUPPORTING PROFILE

- In extruded aluminum, slotted for height and width adjustment
- Dimensions (HxD) 100 x 150 mm
- Sliding track integrated in profile

FRONT COVER

- Available in natural and anodised aluminium, 100 mm high with 'L' shape
- Safety parachutes, easy to assemble with head section to prevent cover fall
- Knockouts to adapt leaves of different thickness (max. 60 mm)
- Hinge seat on the supporting profile isolated from the same by anti-vibration supports (open cover by rotating upwards)
- Designed for locking in open position for maintenance

CARRIAGES

- Die-cast aluminium structure
- Two bearing wheels manufactured in polyamide
- Nylon counterthrust roller on bearing
- Carriage height adjustment ± 7.5 mm
- Lateral adjustments +/- 10 mm
- Extruded aluminium leaf connection profile
- Brush for sliding track cleaning

The product is SAFE&GREEN.

List of technologies standard included in the product

The symbols describe the product use application field.



Offices



Hotel/Residence



Restaurants



Airports



Shopping malls and Multiplex



Banks



Hospitals/Care facilities



Pharmacies



Sterile environments

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TYPE OF INSTALLATION

Automated systems for sliding doors

Model	Passage opening	Weight	Available versions
A1000	from 700 to 3000 mm	110 / 70 + 70 kg	standard
A1400 AIR	from 700 to 3000 mm	200 / 120 + 120 kg	standard, self-supported
A1400 AIR T	from 1100 to 4000 mm	110 + 110 / 4x60 Kg	telescopic, self-supported
A1400 AIR DM	from 800 to 3000 mm	250 / 180 + 180 Kg	double motor
A1400 AIR RD	from 800 to 3000 mm	150 / 120 + 120	standard, self-supported
A1400 AIR RD T	from 1100 to 4000 mm	110 + 110 / 4x60 Kg	telescopic, self-supported

See the relevant section for details



MADE IN ITALY

The reliability of the products is assured by a careful choice of the materials used and by 100% production testing.

Typical Installation Examples page. 158

Order form



Automated systems for sliding doors

Date	Ord. N.	Customer Code
Recipient	Ph.	

Customer

Address	ZIP code	City	Province
----------------	-----------------	-------------	-----------------

Configuration of the automated system

Model:

- | | | |
|--|-------------------------------------|--|
| <input type="checkbox"/> single left leaf | <input type="checkbox"/> two leaves | <input type="checkbox"/> self-supporting |
| <input type="checkbox"/> single right leaf | <input type="checkbox"/> telescopic | <input type="checkbox"/> double motor |

Note: for defining the opening direction of the single leaf (right or left) see Form A.

Passage opening: _____ **mm**

Standard head section length: _____ **mm**

Non-standard head section length: fill in Form B (see page 10)

Note: the head section length (LT) is determined by the width of the passage opening (VP) according to the formula:

Standard models: $LT = VP \times 2 + 100 \text{ mm}$

Telescopic models: $LT = VP \times 1.5 + 100 \text{ mm}$

Overlapping between fixed and mobile leaf is considered in the following way:

Single leaf: 50 mm (+ 50 mm for the closing stop)

Two leaves: 50 + 50 mm

If the overlapping is different, the LT formulas vary.

Supplied accessories installed on demand

(Please tick the appropriate boxes)

- Cover in natural aluminium
- Cover in anodised aluminium
- Bi-stable motor lock with internal release
- Monostable motor lock
- Motoring on motor lock
- Emergency batteries

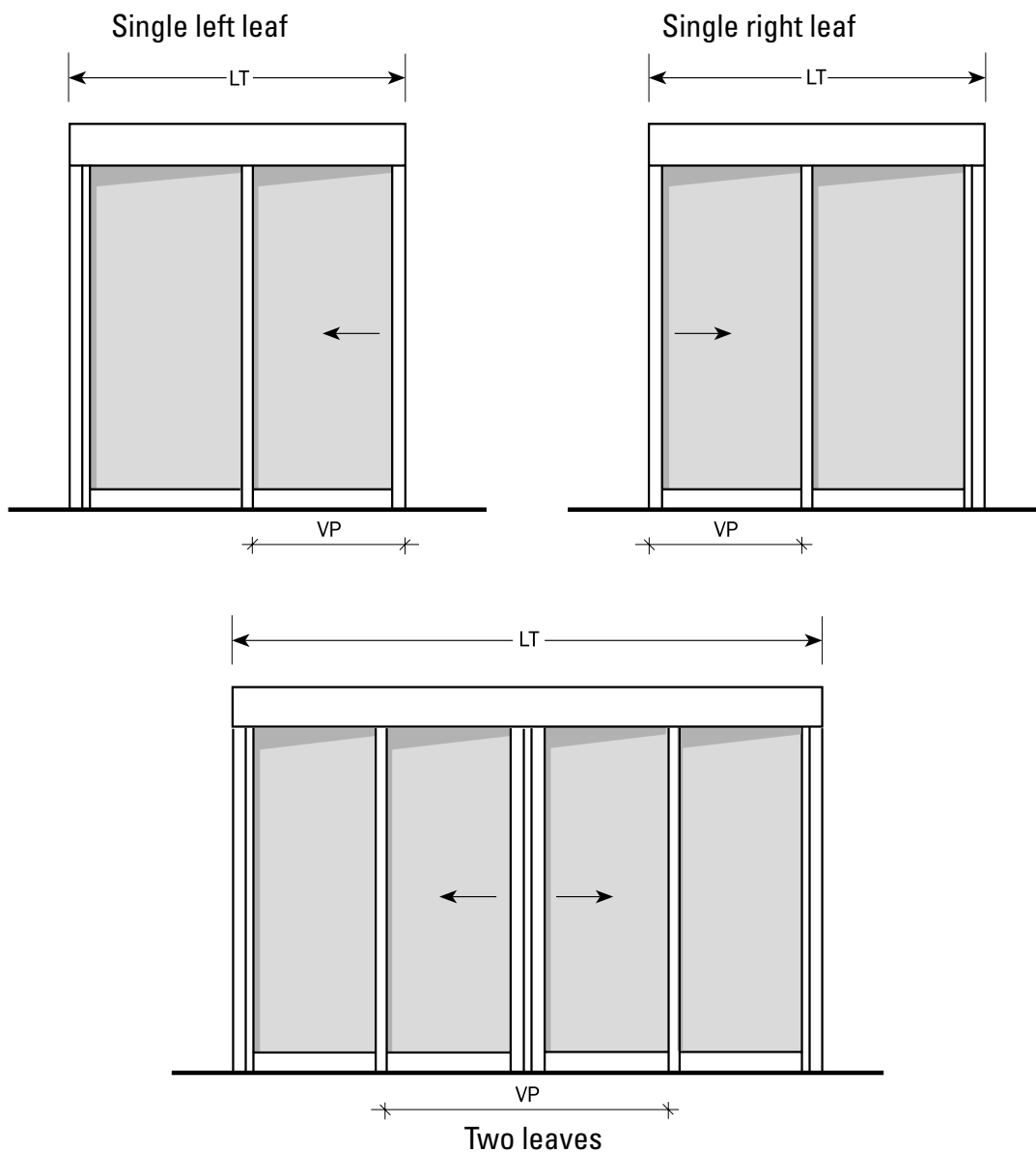
(Please tick the appropriate boxes)

- Cover height
 - 100 mm
 - 140 mm (A1400 only, no telescopic)
- Leaf connection profile
- Carriage spacer
- Function keypad
 - LK EVO
 - SDK EVO
 - KS EVO

For other accessories please refer to the list

Form A

Definition of opening direction and standard sizing *dimensions in mm*

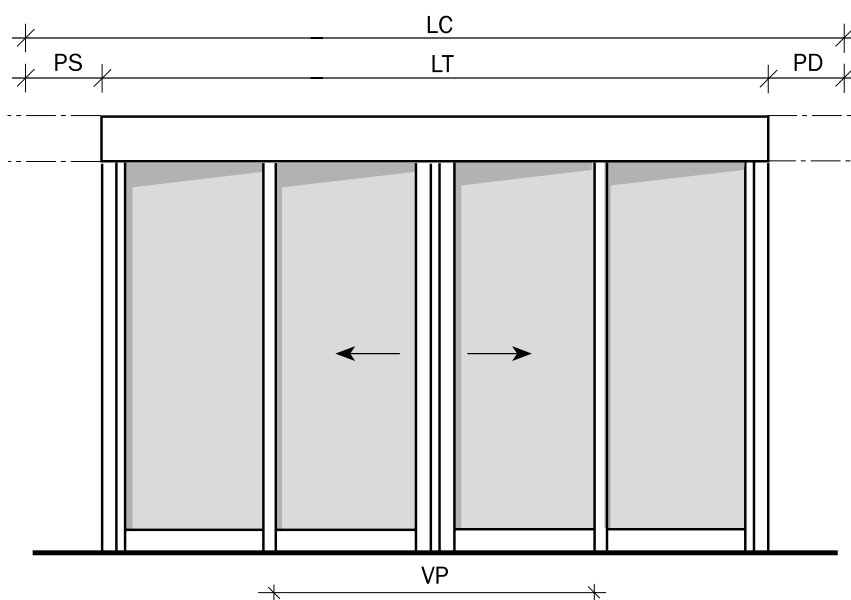
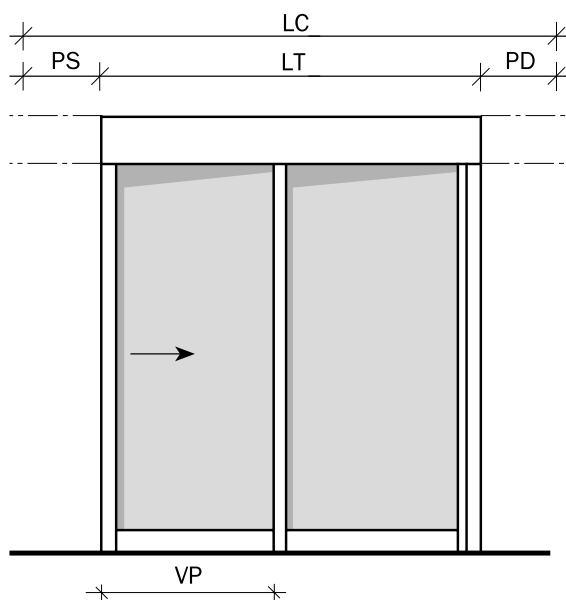
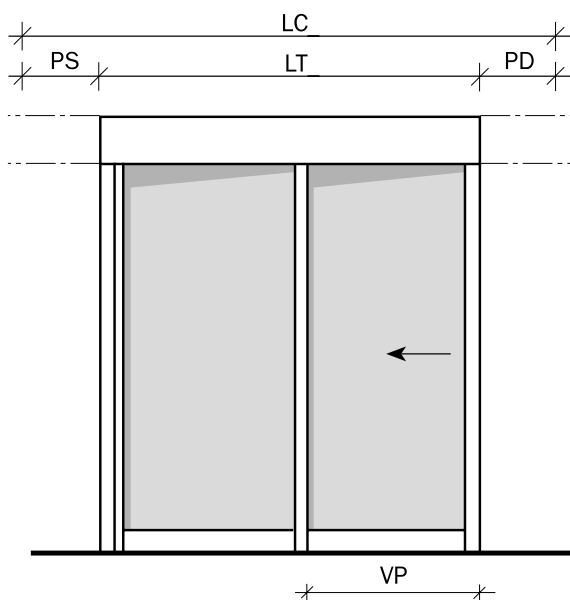


VP: passage opening

LT: head section length

Note: the opening direction is determined from the inspection side

Non-standard sizing

dimensions in mm

VP: passage opening

LT: head section length

PS: left head section extension

PD: right head section extension

LC: overall head section length

Note: the opening direction is determined from the inspection side

AUTOMATED SYSTEMS FOR SLIDING DOORS

A1000

A1000

Automated system for sliding doors



NEW

Passage opening

700 - 3.000 mm

Max. leaf weight

110 - 2x70 Kg



- FAAC A1000 SERIES automated systems are intended for the automation of exits in compliance with European Standard EN16005; in fact they are able to meet the most strict security standards according to EN 13489-1 PI "c".
- Thanks to its small dimensions the A1000 is suitable for every architectural environment also in case of small places
- Thanks to its multiple use, A1000 is suitable for single leaf sliding doors weighing 110 Kg or double leaves sliding doors weighing 70 + 70 Kg.



EN16005



TECHNICAL SPECIFICATIONS

Model	A1000
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	140 W
Max. stand-by power without accessories	3 W
Use frequency	100%
Max leaf width	60 mm
Motor	Motor powered at 36V --- with encoder
Max. accessories load	1A - 24V ---
Type of traction	By means of toothed belt
Opening leaf time	10 ÷ 60 cm/s (1 leaf) - 10 ÷ 140 cm/s (2 leaves)
Closing leaf time	10 ÷ 60 cm/s (1 leaf) - 10 ÷ 140 cm/s (2 leaves)
Partial opening adjustment	5% ÷ 100% of total opening
Pause time	0 - 30 s
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 13489-1 PI "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaf	Passage opening mm	Max. leaf weight kg	Self-supporting (head section length) mm
105057PA	A1000	single	700 ÷ 3.000	110	no
	A1000	double	800 ÷ 3.000	70 + 70	no

THE COMPLETE A1000 SPECIAL ENTRANCE INCLUDES THE FOLLOWING COMPONENTS:

E1SL CONTROL UNIT

- Control unit E1SL - the same as is used on the A1000 and A1400 with characteristics that comply with the safety requirements of European standard EN 16005
- 230 V~ switching power supply unit
- Specific, coloured and removable terminal boards
- Programming of basic functions: automatic, night, door open, one-directional, partial, manual
- Automatic adjustments
 - Definition of open and closed positions
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 2 configurable output contacts
- N. 2 configurable input contacts
- 2 configurable emergency input contacts
- N. 2 programmable monitored safety sensor inputs EN16005
- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function

- LCD display to view the door statuses, the fault diagnostics and programming
- 3 buttons for BASIC programming of:
 - number of leaves
 - pause time
 - energy saving
 - night pause
 - opening and closing speed
 - opening and closing thrust force
 - thrust force time
 - interior/exterior detector programming
 - emergency configuration
- 3 buttons for ADVANCED programming of:
 - monitored protection sensor management
 - input configuration
 - pharmacy function
 - motor block
 - motoring on motor lock
 - night function input delay
 - output configuration
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive
- Safety parachute, easy to assemble with head section to prevent cover fall
- Knockouts to adapt leaves of different thickness (max. 60 mm)
- Hinge seat on the supporting profile isolated from the same by anti-vibration supports (open cover by rotating upwards)
- Designed for locking in open position for maintenance

DRIVE UNIT

COMPLETE WITH:

- Gearmotor powered at 36 V with optical encoder
- E1SL Control Unit
- Return pulley with screw adjustment device for belt tensioning
- Electro-conductive transmission belt
- 2 carriages (A1000 1 leaf) or 4 carriages (A1000 2 leaves)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

CARRIAGES

- Die-cast aluminium structure
- Two bearing wheels manufactured in polyamide
- Nylon counterthrust roller on bearing
- Carriage height adjustment ± 7.5 mm
- Lateral adjustments ± 10 mm
- Extruded aluminium leaf connection profile
- Brush for sliding track cleaning

SUPPORTING PROFILE

- In extruded anodized aluminium, slotted for height and width adjustment
- Dimensions (HxD) 100 x 150 mm
- Sliding track integrated in profile

FRONT COVER

- Available in natural and anodised aluminium, 100 mm high with 'L' shape

A1000

Automated system for 1 or 2 leaves

Item Code: 105057PA

CONTINUOUS SERVICE

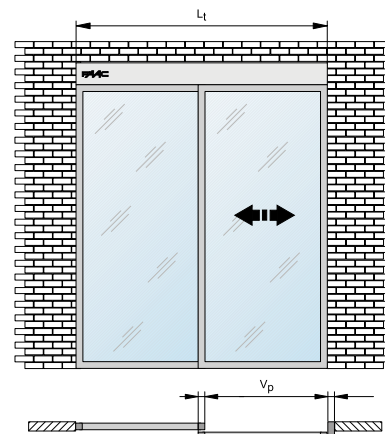
Function keypad not included. Leaf connection profiles included

Head section length $L_t = 2 V_p + 100$ mm

A1000 - 1 LEAF, MAX. WEIGHT 110 KG

dimensions

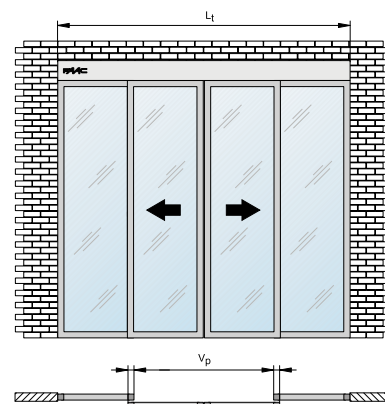
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1000 PA 1-07	700	1.500
A1000 PA 1-08	800	1.700
A1000 PA 1-09	900	1.900
A1000 PA 1-10	1.000	2.100
A1000 PA 1-11	1.100	2.300
A1000 PA 1-12	1.200	2.500
A1000 PA 1-13	1.300	2.700
A1000 PA 1-14	1.400	2.900
A1000 PA 1-15	1.500	3.100
A1000 PA 1-16	1.600	3.300
A1000 PA 1-17	1.700	3.500
A1000 PA 1-18	1.800	3.700
A1000 PA 1-19	1.900	3.900
A1000 PA 1-20	2.000	4.100
A1000 PA 1-22	2.200	4.500
A1000 PA 1-24	2.400	4.900
A1000 PA 1-25	2.500	5.100
A1000 PA 1-27	2.700	5.500
A1000 PA 1-30	3.000	6.100



A1000 - 2 LEAVES, MAX. WEIGHT 70 + 70 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1000 PA 2-08	800	1.700
A1000 PA 2-09	900	1.900
A1000 PA 2-10	1.000	2.100
A1000 PA 2-11	1.100	2.300
A1000 PA 2-12	1.200	2.500
A1000 PA 2-13	1.300	2.700
A1000 PA 2-14	1.400	2.900
A1000 PA 2-15	1.500	3.100
A1000 PA 2-16	1.600	3.300
A1000 PA 2-17	1.700	3.500
A1000 PA 2-18	1.800	3.700
A1000 PA 2-19	1.900	3.900
A1000 PA 2-20	2.000	4.100
A1000 PA 2-22	2.200	4.500
A1000 PA 2-24	2.400	4.900
A1000 PA 2-25	2.500	5.100
A1000 PA 2-27	2.700	5.500
A1000 PA 2-30	3.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

A1000

ACCESSORIES



XB LOCK Bi-stable motor lock A1000 w/ knob

105124

- The block operates directly on the motor and guarantees mechanical locking of the door in any position.
- Operated by internal release knob and set-up for external release installation
- Unlocking allows the door to be opened in the case of emergency
- Management of the motor block integrated into the CONTROL UNIT
- The system operates mechanically on the motor block and sends an opening command to the CONTROL UNIT
- If emergency batteries are installed, the release system controls the motorised door opening even in the event of power failure
- During standard operation, the motor block is only active in NIGHT function.
- For specific requirements, the motor block can also operate in ONE-DIRECTIONAL, AUTOMATIC and PARTIAL mode. Moreover, with the PARTIAL OPENING operating function, the motor block is active both with closed leaves and with open leaves (pharmacy opening)
- There is only one motor block both for single leaf or double leaf applications



Motor block and leaf position supervision

103330

- Magnetic device for controlling that the lock operates correctly and for verifying leaf lock in closing position
- In the case of lock malfunction, an error condition is indicated on the function keypad and the control board
- Set-up for remote switching-on of a warning light or an acoustic signal in the event that the leaves are not in the closing position or in case of motor block faults



Emergency batteries E1400RD/E1SL

103334

- Without power supply, independent operation of the automated system is guaranteed for 30 minutes continuously
- Management of the recharge and control of the charge status of the batteries integrated into the unit
- Automatic battery status test and low battery warning with the possibility of being transmitted to a remote location.
- Set-up for operation:
 - opening only
 - closing only
 - continuous operation (with possibility to select the last operation before running down).

>>

ACCESSORIES FOR FRAMED LEAF



Natural aluminium closing profile (3m bar)

105272



Anodised aluminium closing profile (3m bar)

105273



Lower guide profile (3m bar)

390707



Swivel sliding block (the lower guide profile is necessary)

390794



Pair of lower sliding blocks with bracket (the lower guide profile is necessary)

390771

>>

ACCESSORIES FOR SAFETY



Lower guide profile
brush H=25
(3m bar)

709981



Lower guide profile
brush H=19
(3m bar)

709982



Active threshold safety
infrared, microwave,
double technology
sensor XV1

105108



Active threshold safety
infrared, microwave,
double technology
sensor XDT1

105114

FUNCTION KEYPADS/SELECTORS



SDK EVO function
keypad

790019



LK EVO Function
Selector

790024



Key function selector
KS EVO

790942

ACCESSORIES FOR CRYSTAL LEAVES (NOT FOR TELESCOPIC MODELS)



Profile for crystal leaf
connection



Crystal leaf lower
sliding block pair

Description	Finish	Length	Code
Aluminium profile for crystal leaf connection (thickness 10-11 mm)	Natural	1 m	390710
		3 m	390712
	anodised	1 m	390713
		3 m	390715
Pair of lower sliding blocks	-	120 mm each	722189

NOTE

**OTHER
ACCESSORIES**

**Function
keypads**
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Photocells
page 50

Radar and Sensors
page 46

Pulse generators
page 42

Profiles
page 65

Installation drawings
page 158

AUTOMATED SYSTEMS FOR SLIDING DOORS

A1400 AIR

Here comes the future

The first automated system for sliding doors designed to meet the market requirements and conceived to protect our environment.

A1400 AIR is the first automated system that respects our planet.

Thanks to its innovative 'Energy Saving' device, it identifies the walking path and perfectly optimises opening/closing times thus avoiding unnecessary air dispersal, even in the event of cross traffic. This device enables to save energy and optimizes the temperature sudden changes inside the room and close to the same doors.

And all this in total safety.

A1400 AIR is the automated system that can be customised and composed according to the technical and architectural needs of the customer. The best technical and architectural solutions can be accomplished thanks to two different housing covers, to the exclusive leaf attachment systems and the different leaf profiles.



A1400 AIR

Automated system for sliding doors



Passage opening

700 - 3.000 mm
standard version
1100 - 4.000 mm
telescopic version
800 - 3.000 mm DM
version



Max. leaf weight

200-2x110 / 2x120-4x60
Kg (telescopic version)
250-2x180 Kg (DM
version)

- FAAC A1400 AIR SERIES automated systems are intended for the automation of exits in compliance with European Standard EN16005; in fact they are able to meet the most strict security standards according to EN 13489-1 PI "c".
- Thanks to its innovative 'Energy Saving' device, it identifies the walking path and perfectly optimises opening/closing times thus avoiding unnecessary air dispersal, even in the event of cross traffic.



TECHNICAL SPECIFICATIONS

Model	A1400 AIR
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	140 W
Max. stand-by power without accessories	3 W
Use frequency	100%
Max leaf width	65 mm
Motor	Motor powered at 36V --- with encoder
Max. accessories load	1A - 24V ---
Type of traction	By means of toothed belt
Opening leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Closing leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Partial opening adjustment	5% - 95% of total opening
Pause time	0 - 30 s or Energy Saving function
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 13489-1 PI "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaves	Passage opening (mm)	Max. leaf weight (kg)	Self-supporting
105037PA	A1400 AIR 1	single	700 ÷ 3000	200	no
	A1400 AIR 2	double	800 ÷ 3000	120+120	no
	A1400 AIR A 1	single	700 ÷ 3000	200	yes
	A1400 AIR A 2	double	800 ÷ 3000	120+120	yes
	A1400 AIR DM 1	single	800 ÷ 3000	250	no
	A1400 AIR DM 2	double	900 ÷ 3000	180+180	no
105039PA	A1400 AIR T 2	single telescopic	1100 ÷ 3000	110+110	no
	A1400 AIR T 4	double telescopic	1400 ÷ 4000	60+60+60+60	no
	A1400 AIR A T 2	single telescopic	1100 ÷ 3000	110+110	yes
	A1400 AIR A T 4	double telescopic	1400 ÷ 4000	60+60+60+60	yes

THE COMPLETE SPECIAL ENTRANCE A1400 AIR INCLUDES THE FOLLOWING COMPONENTS:

E1SL CONTROL UNIT

- Control unit E1SL - the same as is used on the A1000 and A1400 with characteristics that comply with the safety requirements of European standard EN 16005
- 230 V~ switching power supply unit
- Specific, coloured and removable terminal boards
- Programming of basic functions: automatic, night, door open, one-directional, partial, manual
- Automatic adjustments
 - Definition of open and closed positions
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 2 configurable output contacts
- N. 2 configurable input contacts
- 2 configurable emergency input contacts
- N. 2 programmable monitored safety sensor inputs EN16005
- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function
- LCD display to view the door statuses, the fault diagnostics and programming
- 3 buttons for BASIC

- programming of:
 - number of leaves
 - pause time
 - energy saving
 - night pause
 - opening and closing speed
 - opening and closing thrust force
 - thrust force time
 - interior/exterior detector programming
 - emergency configuration
- 3 buttons for ADVANCED programming of:
 - monitored protection sensor management
 - input configuration
 - pharmacy function
 - motor block
 - motoring on motor lock
 - night function input delay
 - output configuration
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive

SUPPORTING PROFILE

- In extruded anodized aluminium, slotted for height and width adjustment
- Dimensions (height x width) 100/140 x 166 mm
- Sliding track integrated in profile

FRONT COVER

- Available in natural and anodised aluminium, 100 mm or 140 mm high, with 'L' shape
- Safety parachute, easy to assemble with head section to prevent cover fall
- Knockouts to adapt leaves of different thickness (max. 60 mm)
- Hinge seat on the supporting

- profile isolated from the same by anti-vibration supports (open cover by rotating upwards)
- Designed for locking in open position for maintenance
- Gearmotor powered at 24 V with optical encoder
- E1400 microprocessor control unit
- Return pulley with screw adjustment device for belt tensioning
- Electro-conductive transmission belt
- 2 carriages (1 mobile leaf version) or 4 carriages (2 leaf version)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

A1400 AIR DRIVE UNIT

COMPLETE WITH:

- Main gearmotor powered at 36 V with optical encoder
- 36V secondary gearmotor with adjustment device for belt tensioning in the double motor version
- Return pulley with screw adjustment device for belt tensioning
- E1400 microprocessor control unit
- Electro-conductive transmission belt 12 mm
- 2 carriages (1 mobile leaf version) or 4 carriages (2 leaf version)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

A1400 AIR T DRIVE UNIT

COMPLETE WITH:

- Main gearmotor powered at 36 V with optical encoder
- Return pulley with screw adjustment device for belt tensioning
- E1400 microprocessor control unit
- Electro-conductive transmission belt 12 mm
- N. 4 carriages (version AIR T2) or n. 8 carriages (version AIR T4)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

CARRIAGES

- Galvanised steel structure
- N. 2 synthetic sliding wheels on bearing and reinforced for DM version
- Nylon counterthrust roller on bearing
- Height adjustment ± 7.5 mm via screw
- Lateral adjustments ± 10 mm
- Extruded aluminium leaf connection profile or spacers
- Brush for sliding track cleaning

A1400 AIR

Automated system for 1 or 2 leaves

Item Code: 105037PA

CONTINUOUS SERVICE

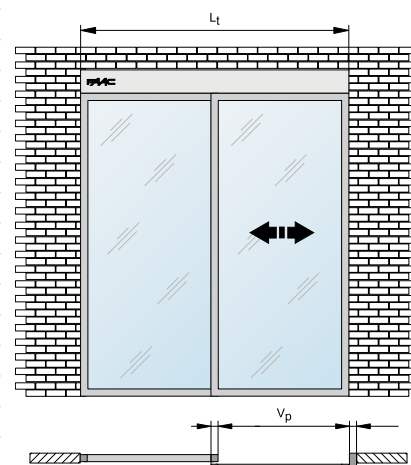
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 2 V_p + 100$ mm

A1400 AIR 1 LEAF MAX. WEIGHT 200 KG

dimensions

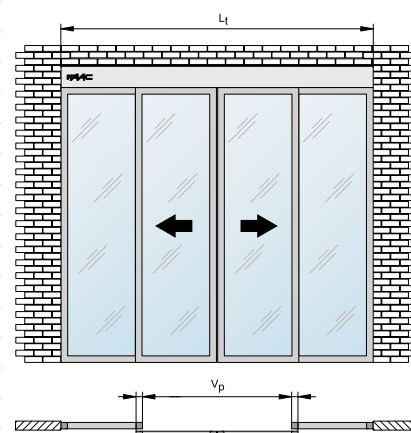
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR PA 1-07	700	1.500
A1400 AIR PA 1-08	800	1.700
A1400 AIR PA 1-09	900	1.900
A1400 AIR PA 1-10	1.000	2.100
A1400 AIR PA 1-11	1.100	2.300
A1400 AIR PA 1-12	1.200	2.500
A1400 AIR PA 1-13	1.300	2.700
A1400 AIR PA 1-14	1.400	2.900
A1400 AIR PA 1-15	1.500	3.100
A1400 AIR PA 1-16	1.600	3.300
A1400 AIR PA 1-17	1.700	3.500
A1400 AIR PA 1-18	1.800	3.700
A1400 AIR PA 1-19	1.900	3.900
A1400 AIR PA 1-20	2.000	4.100
A1400 AIR PA 1-22	2.200	4.500
A1400 AIR PA 1-24	2.400	4.900
A1400 AIR PA 1-25	2.500	5.100
A1400 AIR PA 1-27	2.700	5.500
A1400 AIR PA 1-30	3.000	6.100



A1400 AIR 2 LEAVES MAX. WEIGHT 120 + 120 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR PA 2-08	800	1.700
A1400 AIR PA 2-09	900	1.900
A1400 AIR PA 2-10	1.000	2.100
A1400 AIR PA 2-11	1.100	2.300
A1400 AIR PA 2-12	1.200	2.500
A1400 AIR PA 2-13	1.300	2.700
A1400 AIR PA 2-14	1.400	2.900
A1400 AIR PA 2-15	1.500	3.100
A1400 AIR PA 2-16	1.600	3.300
A1400 AIR PA 2-17	1.700	3.500
A1400 AIR PA 2-18	1.800	3.700
A1400 AIR PA 2-19	1.900	3.900
A1400 AIR PA 2-20	2.000	4.100
A1400 AIR PA 2-22	2.200	4.500
A1400 AIR PA 2-24	2.400	4.900
A1400 AIR PA 2-25	2.500	5.100
A1400 AIR PA 2-27	2.700	5.500
A1400 AIR PA 2-30	3.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

A1400 AIR A

Item Code: 105037PA

CONTINUOUS SERVICE

SDK EVO function keyboard and leaf connection profile not included

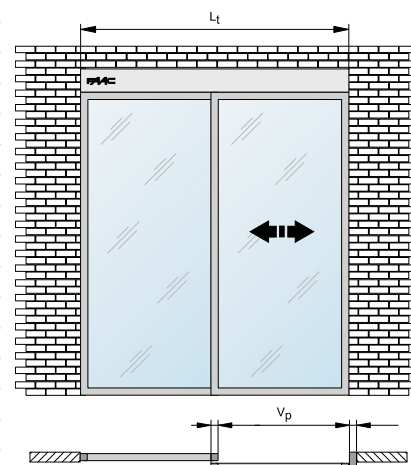
Head section length $L_t = 2 V_p + 100$ mm

Self-supporting automated system for 1 or 2 leaves

A1400 AIR SELF-SUPPORTING 1 LEAF MAX. WEIGHT 200 KG

dimensions

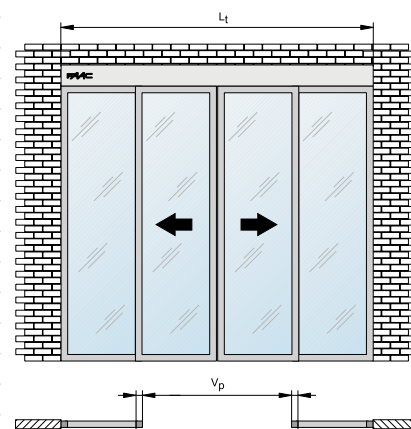
Model	Passage opening mm (V_p)	Length head section mm (L_t)
A1400 AIR A PA 1-07	700	1.500
A1400 AIR A PA 1-08	800	1.700
A1400 AIR A PA 1-09	900	1.900
A1400 AIR A PA 1-10	1.000	2.100
A1400 AIR A PA 1-11	1.100	2.300
A1400 AIR A PA 1-12	1.200	2.500
A1400 AIR A PA 1-13	1.300	2.700
A1400 AIR A PA 1-14	1.400	2.900
A1400 AIR A PA 1-15	1.500	3.100
A1400 AIR A PA 1-16	1.600	3.300
A1400 AIR A PA 1-17	1.700	3.500
A1400 AIR A PA 1-18	1.800	3.700
A1400 AIR A PA 1-19	1.900	3.900
A1400 AIR A PA 1-20	2.000	4.100
A1400 AIR A PA 1-22	2.200	4.500
A1400 AIR A PA 1-24	2.400	4.900
A1400 AIR A PA 1-25	2.500	5.100
A1400 AIR A PA 1-27	2.700	5.500
A1400 AIR A PA 1-30	3.000	6.100



A1400 AIR SELF-SUPPORTING 2 LEAVES MAX. WEIGHT 120 + 120 KG

dimensions

Model	Passage opening mm (V_p)	Length head section mm (L_t)
A1400 AIR A PA 2-08	800	1.700
A1400 AIR A PA 2-09	900	1.900
A1400 AIR A PA 2-10	1.000	2.100
A1400 AIR A PA 2-11	1.100	2.300
A1400 AIR A PA 2-12	1.200	2.500
A1400 AIR A PA 2-13	1.300	2.700
A1400 AIR A PA 2-14	1.400	2.900
A1400 AIR A PA 2-15	1.500	3.100
A1400 AIR A PA 2-16	1.600	3.300
A1400 AIR A PA 2-17	1.700	3.500
A1400 AIR A PA 2-18	1.800	3.700
A1400 AIR A PA 2-19	1.900	3.900
A1400 AIR A PA 2-20	2.000	4.100
A1400 AIR A PA 2-22	2.200	4.500
A1400 AIR A PA 2-24	2.400	4.900
A1400 AIR A PA 2-25	2.500	5.100
A1400 AIR A PA 2-27	2.700	5.500
A1400 AIR A PA 2-30	3.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

A1400 AIR T

2 or 4 telescopic leaves automation

Item Code: 105039PA

CONTINUOUS SERVICE

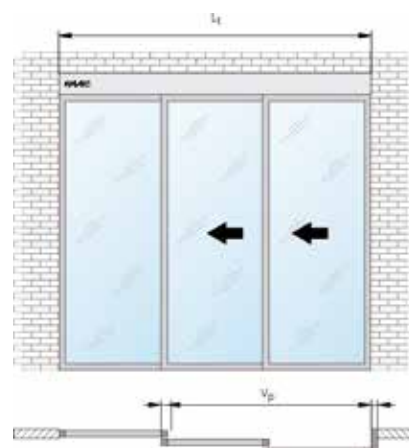
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 1.5 V_p + 100$ mm

A1400 AIR TELESCOPIC 2 LEAVES MAX. WEIGHT 110 + 110 KG

dimensions

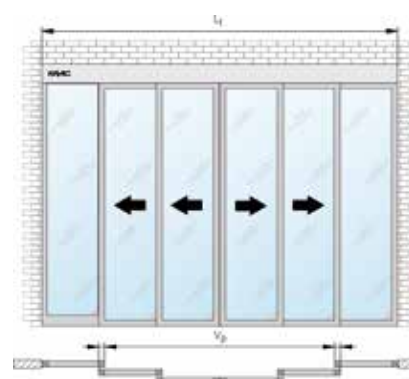
Model	Passage opening mm (V_p)	Length head section mm (L_t)
A1400 AIR T PA 2-11	1.100	1.750
A1400 AIR T PA 2-12	1.200	1.900
A1400 AIR T PA 2-13	1.300	2.050
A1400 AIR T PA 2-14	1.400	2.200
A1400 AIR T PA 2-15	1.500	2.350
A1400 AIR T PA 2-16	1.600	2.500
A1400 AIR T PA 2-17	1.700	2.650
A1400 AIR T PA 2-18	1.800	2.800
A1400 AIR T PA 2-19	1.900	2.950
A1400 AIR T PA 2-20	2.000	3.100
A1400 AIR T PA 2-22	2.200	3.400
A1400 AIR T PA 2-24	2.400	3.700
A1400 AIR T PA 2-26	2.600	4.000
A1400 AIR T PA 2-28	2.800	4.300
A1400 AIR T PA 2-30	3.000	4.600



A1400 AIR TELESCOPIC 4 LEAVES MAX. WEIGHT 60 + 60 + 60 + 60 KG

dimensions

Model	Passage opening mm (V_p)	Length head section mm (L_t)
A1400 AIR T PA 4-14	1.400	2.200
A1400 AIR T PA 4-15	1.500	2.350
A1400 AIR T PA 4-16	1.600	2.500
A1400 AIR T PA 4-17	1.700	2.650
A1400 AIR T PA 4-18	1.800	2.800
A1400 AIR T PA 4-19	1.900	2.950
A1400 AIR T PA 4-20	2.000	3.100
A1400 AIR T PA 4-22	2.200	3.400
A1400 AIR T PA 4-24	2.400	3.700
A1400 AIR T PA 4-26	2.600	4.000
A1400 AIR T PA 4-28	2.800	4.300
A1400 AIR T PA 4-30	3.000	4.600
A1400 AIR T PA 4-32	3.200	4.900
A1400 AIR T PA 4-34	3.400	5.200
A1400 AIR T PA 4-36	3.600	5.500
A1400 AIR T PA 4-38	3.800	5.800
A1400 AIR T PA 4-40	4.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

A1400 AIR A T

2 or 4 telescopic leaves automation

Item Code: 105039PA

CONTINUOUS SERVICE

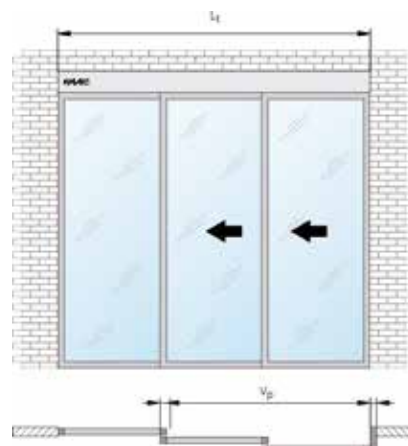
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 1.5 V_p + 100$ mm

A1400 AIR TELESCOPIC 2 LEAVES MAX. WEIGHT 110 + 110 KG

dimensions

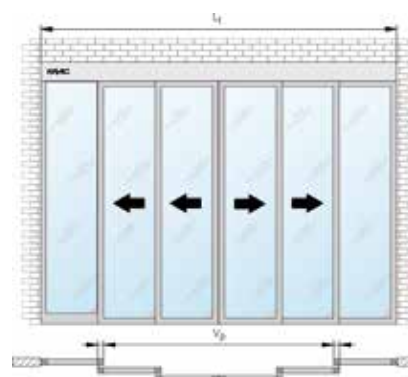
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR A T2-11	1.100	1.750
A1400 AIR A T2-12	1.200	1.900
A1400 AIR A T2-13	1.300	2.050
A1400 AIR A T2-14	1.400	2.200
A1400 AIR A T2-15	1.500	2.350
A1400 AIR A T2-16	1.600	2.500
A1400 AIR A T2-17	1.700	2.650
A1400 AIR A T2-18	1.800	2.800
A1400 AIR A T2-19	1.900	2.950
A1400 AIR A T2-20	2.000	3.100
A1400 AIR A T2-22	2.200	3.400
A1400 AIR A T2-24	2.400	3.700
A1400 AIR A T2-26	2.600	4.000
A1400 AIR A T2-28	2.800	4.300
A1400 AIR A T2-30	3.000	4.600



A1400 AIR TELESCOPIC 4 LEAVES MAX. WEIGHT 60 + 60 + 60 + 60 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR A T4-14	1.400	2.200
A1400 AIR A T4-15	1.500	2.350
A1400 AIR A T4-16	1.600	2.500
A1400 AIR A T4-17	1.700	2.650
A1400 AIR A T4-18	1.800	2.800
A1400 AIR A T4-19	1.900	2.950
A1400 AIR A T4-20	2.000	3.100
A1400 AIR A T4-22	2.200	3.400
A1400 AIR A T4-24	2.400	3.700
A1400 AIR A T4-26	2.600	4.000
A1400 AIR A T4-28	2.800	4.300
A1400 AIR A T4-30	3.000	4.600
A1400 AIR A T4-32	3.200	4.900
A1400 AIR A T4-34	3.400	5.200
A1400 AIR A T4-36	3.600	5.500
A1400 AIR A T4-38	3.800	5.800
A1400 AIR A T4-40	4.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

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3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

A1400 AIR DM

Automated system for 1 or 2 leaves

Item Code: 105037PA

CONTINUOUS SERVICE

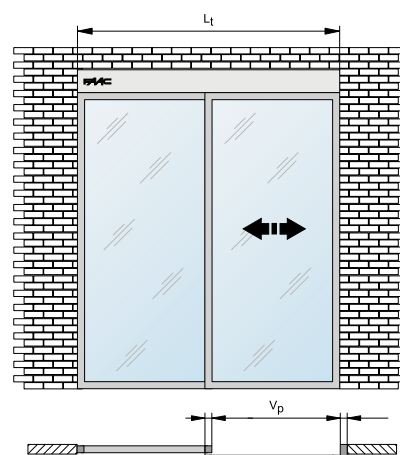
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 2 V_p + 100$ mm

A1400 AIR DM 1 LEAF MAX. WEIGHT 250 KG

dimensions

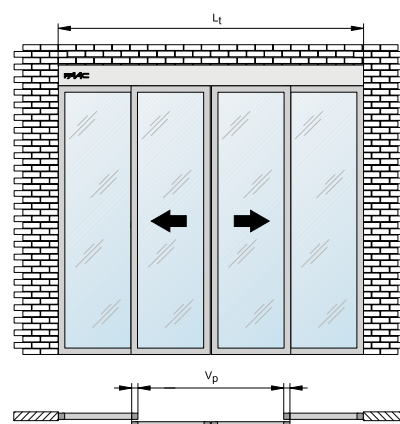
Model	Passage opening mm (Vp)	Length head section mm (Lt)
A1400 AIR DM PA 1-08	800	1.700
A1400 AIR DM PA 1-09	900	1.900
A1400 AIR DM PA 1-10	1.000	2.100
A1400 AIR DM PA 1-11	1.100	2.300
A1400 AIR DM PA 1-12	1.200	2.500
A1400 AIR DM PA 1-13	1.300	2.700
A1400 AIR DM PA 1-14	1.400	2.900
A1400 AIR DM PA 1-15	1.500	3.100
A1400 AIR DM PA 1-16	1.600	3.300
A1400 AIR DM PA 1-17	1.700	3.500
A1400 AIR DM PA 1-18	1.800	3.700
A1400 AIR DM PA 1-19	1.900	3.900
A1400 AIR DM PA 1-20	2.000	4.100
A1400 AIR DM PA 1-22	2.200	4.500
A1400 AIR DM PA 1-24	2.400	4.900
A1400 AIR DM PA 1-25	2.500	5.100
A1400 AIR DM PA 1-27	2.700	5.500
A1400 AIR DM PA 1-30	3.000	6.100



A1400 AIR DM 2 LEAVES MAX. WEIGHT 180 + 180 KG

dimensions

Model	Passage opening mm (Vp)	Length head section mm (Lt)
A1400 AIR DM PA 2-09	900	1.900
A1400 AIR DM PA 2-10	1.000	2.100
A1400 AIR DM PA 2-11	1.100	2.300
A1400 AIR DM PA 2-12	1.200	2.500
A1400 AIR DM PA 2-13	1.300	2.700
A1400 AIR DM PA 2-14	1.400	2.900
A1400 AIR DM PA 2-15	1.500	3.100
A1400 AIR DM PA 2-16	1.600	3.300
A1400 AIR DM PA 2-17	1.700	3.500
A1400 AIR DM PA 2-18	1.800	3.700
A1400 AIR DM PA 2-19	1.900	3.900
A1400 AIR DM PA 2-20	2.000	4.100
A1400 AIR DM PA 2-22	2.200	4.500
A1400 AIR DM PA 2-24	2.400	4.900
A1400 AIR DM PA 2-25	2.500	5.100
A1400 AIR DM PA 2-27	2.700	5.500
A1400 AIR DM PA 2-30	3.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

ACCESSORIES



**XB LOCK Bi-stable
motor lock A1400 w/
knob**

105502

- The block operates directly on the motor and guarantees mechanical locking of the door in any position.
- Operated by internal release knob and set-up for external release installation
- Unlocking allows the door to be opened in the case of emergency
- Management of the motor block integrated into the CONTROL UNIT
- The system operates mechanically on the motor block and sends an opening command to the CONTROL UNIT
- If emergency batteries are installed, the release system controls the motorised door opening even in the event of power failure
- During standard operation, the motor block is only active in NIGHT function.
- For specific requirements, the motor block can also operate in NIGHT AND OPEN, NIGHT, OPEN and DISABLED mode. Moreover, with the PARTIAL OPENING operating function, the motor block is active both with closed leaves and with open leaves (pharmacy opening)
- There is only one motor block both for single leaf or double leaf applications



**XM LOCK Monostable
motor lock A1400**

105056

- The block operates directly on the motor and guarantees mechanical locking of the door in any position. You can use the same lock both for single and double leaves applications.
- When voltage is missing and battery is not present the lock will open automatically and allow people to move the door manually
- Management of the motor block integrated into the CONTROL UNIT
- During standard operation, the motor block is only active in NIGHT function.
- For specific requirements, the motor block can also operate in NIGHT AND OPEN, NIGHT, OPEN and DISABLED mode. Moreover, with the PARTIAL OPENING operating function, the motor block is active both with closed leaves and with open leaves (pharmacy opening)



**Motor block and leaf
position supervision**

103330

- Microswitch for controlling that the motor block operates correctly and magnetic device for verifying leaf lock in closing position
- In the case of motor block malfunction, an error condition is indicated on the function keypad and the control board
- Set-up for remote switching-on of a warning light or an acoustic signal in the event that the leaves are not in the closing position or in case of motor block faults



**Emergency batteries
E1400RD/E1SL**

103334

- Without power supply, independent operation of the automated system is guaranteed for 30 minutes continuously
- Management of the recharge and control of the charge status of the batteries integrated into the unit
- Automatic battery status test and low battery warning with the possibility of being transmitted to a remote location.
- Set-up for operation:
 - opening only
 - closing only
 - continuous operation (with possibility to select the last operation before running down).

ACCESSORIES FOR FRAMED LEAF



Leaf connection profile (3m bar)

390991



Carriage spacer A1400 AIR (4 pcs. pack for two mobile leaves)

390990



Lower guide profile (3m bar)

390707



Swivel sliding block (the lower guide profile is necessary)

390794



Pair of lower sliding blocks with bracket (the lower guide profile is necessary)

390771



Pair of lower sliding blocks with bracket for self-supporting (the lower guide profile is necessary)

390772

>>

ACCESSORIES FOR OPENING/SAFETY



Lower guide profile brush H=25 (3m bar)

709981



Lower guide profile brush H=19 (3m bar)

709982



Active threshold safety infrared, microwave, double technology sensor XV1

105108



Active threshold safety infrared, microwave, double technology sensor XDT1

105114

FUNCTION KEYPADS/SELECTORS



SDK EVO function keypad

790019



LK EVO Function Selector

790024



Key function selector KS EVO

790942

ACCESSORIES FOR CRYSTAL LEAVES (NOT FOR TELESCOPIC MODELS)



Profile for crystal leaf connection



Crystal leaf lower sliding block pair

Description	Finish	Length	Code
Aluminium profile for crystal leaf connection (thickness 10-11 mm)	Natural	1 m	390710
		3 m	390712
	anodised	1 m	390713
		3 m	390715
Pair of lower sliding blocks	-	120 mm each	722189

OTHER ACCESSORIES

Function keypads page 37

Photocells page 50

Radar and Sensors page 46

Pulse generators page 42

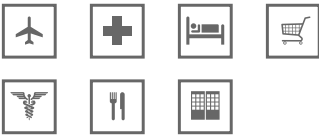
Profiles page 65

Installation drawings page 158

REDUNDANT AUTOMATED SYSTEMS FOR SLIDING DOORS ON ESCAPE ROUTES

A1400 AIR RD

Redundant automated systems for sliding doors on escape routes



A1400 AIR RD

Automated systems for sliding doors on escape route

Passage opening

800 - 3.000 mm (1100 - 4.000 mm with telescopic version)

Max. leaf weight

150 - 2x120 / 2x110 - 4x60 Kg (telescopic version)



- The A1400 AIR RD automatic doors for escape routes are compliant with EN 16005 and satisfy all safety levels criteria listed in EN13489-1 PI.D.
- Thanks to the Energy Saving system it detects the direction of the passage, also lateral, and optimises the opening times avoiding air dispersions.



TECHNICAL SPECIFICATIONS

Model	A1400 AIR RD
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	140 W
Stand-by consumption	3W
Use frequency	100%
Max leaf width	65 mm
Motor	Motor powered at 36V --- with encoder
Auxiliary motor	Motor powered at 36V ---
Max. accessories load	1A - 24V ---
Type of traction	By means of an electro-conductive toothed belt
Opening leaf time	10 - 75 cm/s (1 leaf) - 20 - 150 cm/s (2 leaves)
Closing leaf time	10 - 75 cm/s (1 leaf) - 20 - 150 cm/s (2 leaves)
Partial opening adjustment	5% - 95% of total opening
Pause time	0 - 30 s or Energy Saving function
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 13489-1 PI "d" CAT3; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaves	Passage opening (mm)	Max leaf weight* (Kg)	Self-supporting
105140PA	A1400 AIR RD 1	single	800 ÷ 3000	150	no
	A1400 AIR RD 2	double	900 ÷ 3000	120+120	no
	A1400 AIR RDA 1	single	800 ÷ 3000	150	yes
	A1400 AIR RDA 2	double	900 ÷ 3000	120+120	yes
105038PA	A1400 AIR RD T 2	single telescopic	1100 ÷ 3000	110+110	no
	A1400 AIR RD T 4	double telescopic	1400 ÷ 4000	60+60+60+60	no
	A1400 AIR RDA T 2	single telescopic	1100 ÷ 3000	110+110	yes
	A1400 AIR RDA T 4	double telescopic	1400 ÷ 4000	60+60+60+60	yes

(*) The maximum weight of the leaf varies according to the passage opening.

THE COMPLETE A1400 AIR RD SPECIAL ENTRANCE INCLUDES THE FOLLOWING COMPONENTS:

E1400 RD CONTROL UNIT

- Microprocessor control unit E1400 RD with redundant safety control and incorporated block, battery and button photocells
- 230 V~ switching power supply unit
- Self-controlled emergency batteries that activate only when voltage is missing, by opening the door, according to EN16005
- Specific, coloured and removable terminal boards
- Programming via SDK EVO function keypad
- Automatic adjustments
 - Definition of open and closed positions
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 2 configurable output contacts
- N. 4 configurable input contacts
- 2 configurable emergency input contacts
- 4 programmable inputs for monitored safety sensors EN 16005
- 2 current or frequency programmable inputs for

monitored movement sensors EN 16005

- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function
- LCD display to view the door statuses, the fault diagnostics and programming
- 3 buttons for BASIC programming of:
 - number of leaves
 - pause time
 - energy saving
 - night pause
 - opening and closing speed
 - opening and closing thrust force
 - thrust force time
 - interior/exterior detector programming
 - emergency configuration
- 3 buttons for ADVANCED programming of:
 - monitored protection sensor management
 - input configuration
 - pharmacy function
 - motor block
 - motoring on motor lock
 - night function input delay
 - output configuration
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive

SUPPORTING PROFILE

- In extruded anodized aluminium, slotted for height and width adjustment
- Dimensions (height x depth) 70 x 166 mm
- Sliding track integrated in

profile

FRONT COVER

- Available in natural and anodised aluminium, 100 mm or 140 mm high, with 'L' shape
- Safety parachute, easy to assemble with head section to prevent cover fall
- Knockouts to adapt leaves of different thickness (max. 60 mm)
- Hinge seat on the supporting profile isolated from the same by anti-vibration supports (open cover by rotating upwards)
- Designed for locking in open position for maintenance

DRIVE UNIT

COMPLETE WITH:

- Main gearmotor powered at 36 V with optical encoder
- Auxiliary gearmotor powered at 36 V with belt tensioning adjustment
- Microprocessor control unit E1400 RD with redundant safety control
- Electro-conductive transmission belt 12 mm
- 2 carriages (1 mobile leaf version) or 4 carriages (2 leaf version)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

A1400 AIR RD T DRIVE UNIT

COMPLETE WITH:

- Main gearmotor powered at 36 V with optical encoder
- Auxiliary gearmotor powered at 36 V with adjustment

- Microprocessor control unit E1400 RD with redundant safety control
- Electro-conductive transmission belt 12 mm
- Return pulley with steel screw for AIR RD T
- N. 4 carriages (AIR RD T2 version) or n. 8 carriages (AIR RD T4 version)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

CARRIAGES

- Galvanised steel structure
- 2 sliding wheels in synthetic material on bearing
- Nylon counterthrust roller on bearing
- Height adjustment ± 7.5 mm via screw
- Lateral adjustments ± 10 mm
- Extruded aluminium leaf connection profile or spacers
- Brush for sliding track cleaning

Redundant automated systems for sliding doors on escape routes

Automated system for 1 or 2 leaves

A1400 AIR RD

Item Code : 105140PA

CONTINUOUS SERVICE

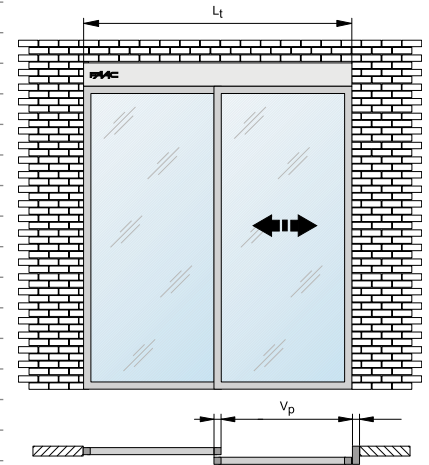
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 2 V_p + 100$ mm

A1400 AIR RD 1 LEAF, MAX. WEIGHT 200 KG

dimensions

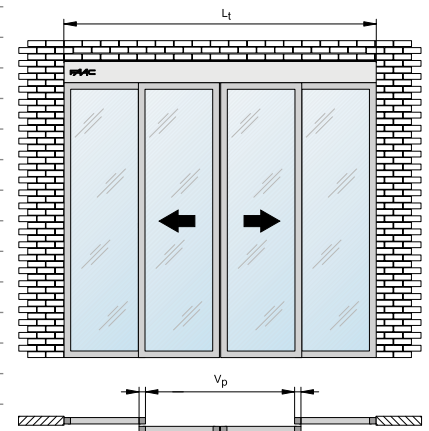
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RD PA 1-08	800	1.700
A1400 AIR RD PA 1-09	900	1.900
A1400 AIR RD PA 1-10	1.000	2.100
A1400 AIR RD PA 1-11	1.100	2.300
A1400 AIR RD PA 1-12	1.200	2.500
A1400 AIR RD PA 1-13	1.300	2.700
A1400 AIR RD PA 1-14	1.400	2.900
A1400 AIR RD PA 1-15	1.500	3.100
A1400 AIR RD PA 1-16	1.600	3.300
A1400 AIR RD PA 1-17	1.700	3.500
A1400 AIR RD PA 1-18	1.800	3.700
A1400 AIR RD PA 1-19	1.900	3.900
A1400 AIR RD PA 1-20	2.000	4.100
A1400 AIR RD PA 1-22	2.200	4.500
A1400 AIR RD PA 1-24	2.400	4.900
A1400 AIR RD PA 1-25	2.500	5.100
A1400 AIR RD PA 1-27	2.700	5.500
A1400 AIR RD PA 1-30	3.000	6.100



A1400 AIR RD 2 LEAVES MAX. WEIGHT 120 + 120 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RD PA 2-09	900	1.900
A1400 AIR RD PA 2-10	1.000	2.100
A1400 AIR RD PA 2-11	1.100	2.300
A1400 AIR RD PA 2-12	1.200	2.500
A1400 AIR RD PA 2-13	1.300	2.700
A1400 AIR RD PA 2-14	1.400	2.900
A1400 AIR RD PA 2-15	1.500	3.100
A1400 AIR RD PA 2-16	1.600	3.300
A1400 AIR RD PA 2-17	1.700	3.500
A1400 AIR RD PA 2-18	1.800	3.700
A1400 AIR RD PA 2-19	1.900	3.900
A1400 AIR RD PA 2-20	2.000	4.100
A1400 AIR RD PA 2-22	2.200	4.500
A1400 AIR RD PA 2-24	2.400	4.900
A1400 AIR RD PA 2-25	2.500	5.100
A1400 AIR RD PA 2-27	2.700	5.500
A1400 AIR RD PA 2-30	3.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

1. For filling up the order correctly, use the specific ORDER FORM.
2. For defining the OPENING DIRECTION and STANDARD SIZING, please refer to FORM A.
3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

Redundant automated systems for sliding doors on escape routes

Self-supporting automated system for 1 or 2 leaves

A1400 AIR RD A

Item Code : 105140PA

CONTINUOUS SERVICE

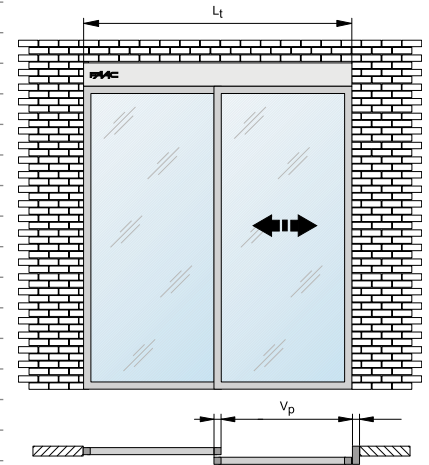
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 2 V_p + 100$ mm

A1400 AIR RD, SELF-SUPPORTING WITH 1 LEAF, MAX. WEIGHT 200 KG

dimensions

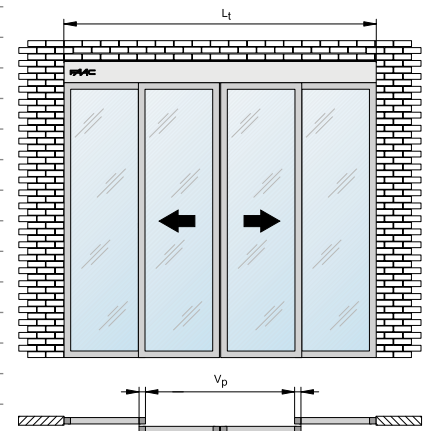
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RDA PA 1-08	800	1.700
A1400 AIR RDA PA 1-09	900	1.900
A1400 AIR RDA PA 1-10	1.000	2.100
A1400 AIR RDA PA 1-11	1.100	2.300
A1400 AIR RDA PA 1-12	1.200	2.500
A1400 AIR RDA PA 1-13	1.300	2.700
A1400 AIR RDA PA 1-14	1.400	2.900
A1400 AIR RDA PA 1-15	1.500	3.100
A1400 AIR RDA PA 1-16	1.600	3.300
A1400 AIR RDA PA 1-17	1.700	3.500
A1400 AIR RDA PA 1-18	1.800	3.700
A1400 AIR RDA PA 1-19	1.900	3.900
A1400 AIR RDA PA 1-20	2.000	4.100
A1400 AIR RDA PA 1-22	2.200	4.500
A1400 AIR RDA PA 1-24	2.400	4.900
A1400 AIR RDA PA 1-25	2.500	5.100
A1400 AIR RDA PA 1-27	2.700	5.500
A1400 AIR RDA PA 1-30	3.000	6.100



A1400 AIR RD, SELF-SUPPORTING WITH 2 LEAVES MAX. WEIGHT 120 + 120 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RDA PA 2-09	900	1.900
A1400 AIR RDA PA 2-10	1.000	2.100
A1400 AIR RDA PA 2-11	1.100	2.300
A1400 AIR RDA PA 2-12	1.200	2.500
A1400 AIR RDA PA 2-13	1.300	2.700
A1400 AIR RDA PA 2-14	1.400	2.900
A1400 AIR RDA PA 2-15	1.500	3.100
A1400 AIR RDA PA 2-16	1.600	3.300
A1400 AIR RDA PA 2-17	1.700	3.500
A1400 AIR RDA PA 2-18	1.800	3.700
A1400 AIR RDA PA 2-19	1.900	3.900
A1400 AIR RDA PA 2-20	2.000	4.100
A1400 AIR RDA PA 2-22	2.200	4.500
A1400 AIR RDA PA 2-24	2.400	4.900
A1400 AIR RDA PA 2-25	2.500	5.100
A1400 AIR RDA PA 2-27	2.700	5.500
A1400 AIR RDA PA 2-30	3.000	6.100



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3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

Redundant automated systems for sliding doors on escape routes

2 or 4 telescopic leaves automation

A1400 AIR RD T

Item code: 105038PA

CONTINUOUS SERVICE

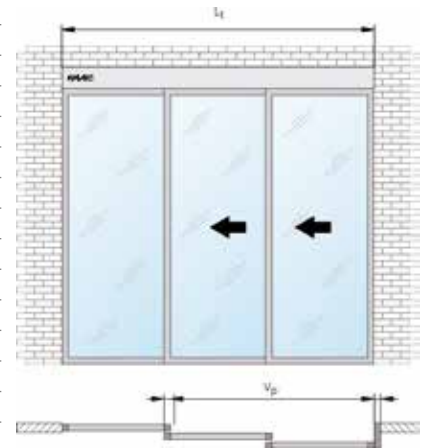
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 1.5 V_p + 100$ mm

A1400 AIR RD T 2 LEAVES MAX. WEIGHT 110 + 110 KG

dimensions

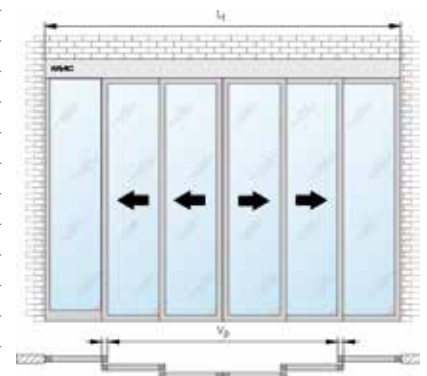
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RD T2-11	1.100	1.750
A1400 AIR RD T2-12	1.200	1.900
A1400 AIR RD T2-13	1.300	2.050
A1400 AIR RD T2-14	1.400	2.200
A1400 AIR RD T2-15	1.500	2.350
A1400 AIR RD T2-16	1.600	2.500
A1400 AIR RD T2-17	1.700	2.650
A1400 AIR RD T2-18	1.800	2.800
A1400 AIR RD T2-19	1.900	2.950
A1400 AIR RD T2-20	2.000	3.100
A1400 AIR RD T2-22	2.200	3.400
A1400 AIR RD T2-24	2.400	3.700
A1400 AIR RD T2-26	2.600	4.000
A1400 AIR RD T2-28	2.800	4.300
A1400 AIR RD T2-30	3.000	4.600



A1400 AIR RD T 4 LEAVES MAX. WEIGHT 60 + 60 + 60 + 60 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RD T4-14	1.400	2.200
A1400 AIR RD T4-15	1.500	2.350
A1400 AIR RD T4-16	1.600	2.500
A1400 AIR RD T4-17	1.700	2.650
A1400 AIR RD T4-18	1.800	2.800
A1400 AIR RD T4-19	1.900	2.950
A1400 AIR RD T4-20	2.000	3.100
A1400 AIR RD T4-22	2.200	3.400
A1400 AIR RD T4-24	2.400	3.700
A1400 AIR RD T4-26	2.600	4.000
A1400 AIR RD T4-28	2.800	4.300
A1400 AIR RD T4-30	3.000	4.600
A1400 AIR RD T4-32	3.200	4.900
A1400 AIR RD T4-34	3.400	5.200
A1400 AIR RD T4-36	3.600	5.500
A1400 AIR RD T4-38	3.800	5.800
A1400 AIR RD T4-40	4.000	6.100



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3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

Redundant automated systems for sliding doors on escape routes

2 or 4 telescopic leaves automation

A1400 AIR RD A T

Item code: 105038PA

CONTINUOUS SERVICE

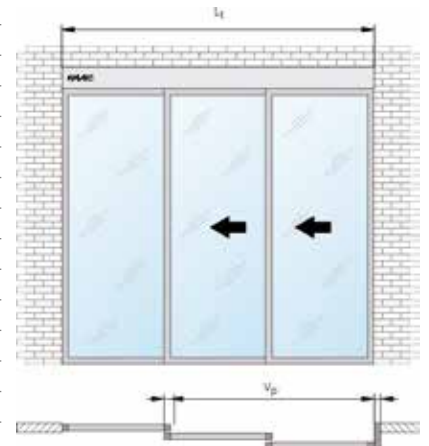
SDK EVO function keyboard and leaf connection profile not included

Head section length $L_t = 1.5 V_p + 100$ mm

A1400 AIR RD A T 2 LEAVES MAX. WEIGHT 110 + 110 KG

dimensions

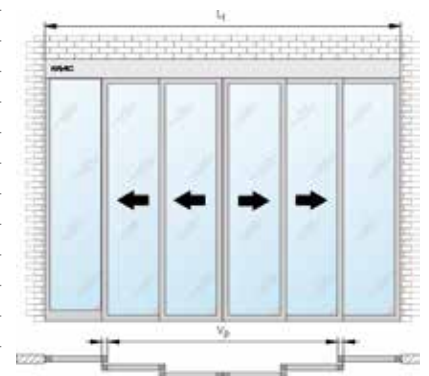
Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RDA T2-11	1.100	1.750
A1400 AIR RDA T2-12	1.200	1.900
A1400 AIR RDA T2-13	1.300	2.050
A1400 AIR RDA T2-14	1.400	2.200
A1400 AIR RDA T2-15	1.500	2.350
A1400 AIR RDA T2-16	1.600	2.500
A1400 AIR RDA T2-17	1.700	2.650
A1400 AIR RDA T2-18	1.800	2.800
A1400 AIR RDA T2-19	1.900	2.950
A1400 AIR RDA T2-20	2.000	3.100
A1400 AIR RDA T2-22	2.200	3.400
A1400 AIR RDA T2-24	2.400	3.700
A1400 AIR RDA T2-26	2.600	4.000
A1400 AIR RDA T2-28	2.800	4.300
A1400 AIR RDA T2-30	3.000	4.600



A1400 AIR RD A T 4 LEAVES MAX. WEIGHT 60 + 60 + 60 + 60 KG

dimensions

Model	Passage opening mm (V_p)	Head section length mm (L_t)
A1400 AIR RDA T4-14	1.400	2.200
A1400 AIR RDA T4-15	1.500	2.350
A1400 AIR RDA T4-16	1.600	2.500
A1400 AIR RDA T4-17	1.700	2.650
A1400 AIR RDA T4-18	1.800	2.800
A1400 AIR RDA T4-19	1.900	2.950
A1400 AIR RDA T4-20	2.000	3.100
A1400 AIR RDA T4-22	2.200	3.400
A1400 AIR RDA T4-24	2.400	3.700
A1400 AIR RDA T4-26	2.600	4.000
A1400 AIR RDA T4-28	2.800	4.300
A1400 AIR RDA T4-30	3.000	4.600
A1400 AIR RDA T4-32	3.200	4.900
A1400 AIR RDA T4-34	3.400	5.200
A1400 AIR RDA T4-36	3.600	5.500
A1400 AIR RDA T4-38	3.800	5.800
A1400 AIR RDA T4-40	4.000	6.100



HOW TO ORDER AUTOMATED SYSTEMS

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3. For NON-STANDARD sizing, fill in FORM B. The price applied will refer to the overall head section length (MAX. LC 6100 mm).
4. For intermediate head section length values, the price of the next higher length shall be applied.
5. If the cover is supplied separately from the automated system, a charge of € 20.00 is applied for packaging.

ACCESSORIES



XB LOCK Bi-stable motor lock A1400 w/ knob

105502

- The block operates directly on the motor and guarantees mechanical locking of the door in any position.
- Operated by internal release knob and set-up for external release installation
- Unlocking allows the door to be opened in the case of emergency
- Management of the motor block integrated into the CONTROL UNIT
- The system operates mechanically on the motor block and sends an opening command to the CONTROL UNIT
- If emergency batteries are installed, the release system controls the motorised door opening even in the event of power failure
- During standard operation, the motor block is only active in NIGHT function.
- For specific requirements, the motor block can also operate in NIGHT AND OPEN, NIGHT, OPEN and DISABLED mode. Moreover, with the PARTIAL OPENING operating function, the motor block is active both with closed leaves and with open leaves (pharmacy opening)
- There is only one motor block both for single leaf or double leaf applications



XM LOCK Monostable motor lock A1400

105056

- The block operates directly on the motor and guarantees mechanical locking of the door in any position. You can use the same lock both for single and double leaves applications.
- When voltage is missing and battery is not present the lock will open automatically and allow people to move the door manually
- Management of the motor block integrated into the CONTROL UNIT
- During standard operation, the motor block is only active in NIGHT function.
- For specific requirements, the motor block can also operate in NIGHT AND OPEN, NIGHT, OPEN and DISABLED mode. Moreover, with the PARTIAL OPENING operating function, the motor block is active both with closed leaves and with open leaves (pharmacy opening)



Motor block and leaf position supervision

103330

- Microswitch for controlling that the motor block operates correctly and magnetic device for verifying leaf lock in closing position
- In the case of motor block malfunction, an error condition is indicated on the function keypad and the control board
- Set-up for remote switching-on of a warning light or an acoustic signal in the event that the leaves are not in the closing position or in case of motor block faults

ACCESSORIES FOR FRAMED LEAF



Leaf connection profile (3m bar)

390991



Carriage spacer A1400 AIR (4 pcs. pack for two mobile leaves)

390990



Lower guide profile (3m bar)

390707



Swivel sliding block (the lower guide profile is necessary)

390794



Pair of lower sliding blocks with bracket (the lower guide profile is necessary)

390771



Pair of lower sliding blocks with bracket for self-supporting (the lower guide profile is necessary)

390772

>>

ACCESSORIES FOR OPENING/SAFETY



Lower guide profile brush H=25 (3m bar)

709981



Lower guide profile brush H=19 (3m bar)

709982



XDT3 one-directional radar + escape route infrared safety

105104



Active threshold safety infrared, microwave, double technology sensor XV1

105108



Active threshold safety infrared, microwave, double technology sensor XDT1

105114

FUNCTION KEYPADS/SELECTORS



SDK EVO function keypad

790019



LK EVO Function Selector

790024



Key function selector KS EVO

790942

ACCESSORIES FOR CRYSTAL LEAVES (NOT FOR TELESCOPIC MODELS)



Profile for crystal leaf connection



Crystal leaf lower sliding block pair

Description	Finish	Length	Code
Aluminium profile for crystal leaf connection (thickness 10-11 mm)	Natural	1 m	390710
		3 m	390712
	anodised	1 m	390713
		3 m	390715
Pair of lower sliding blocks	-	120 mm each	722189

OTHER ACCESSORIES

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COMMON ACCESSORIES FOR SLIDING DOORS

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KS EVO

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XBFA ST

XV1

XDT1

XDT3

X1S

Function keypads and accessories

SDK EVO

Function Keypad



- Supplied as an accessory, it always comes equipped with a large graphic display that allows full access to all the door parameters through the four keys that the user uses to move around in the menu

Model	Description	Item code
SDK EVO	Function keypad	790019



TECHNICAL SPECIFICATIONS

Model	SDK EVO
	Manual (with key or security code EN16005 only for A1400 RD) Night (with key or security code EN16005 only for A1400 RD) Automatic
Operative functions	Monodirectional or Bidirectional Partial opening Open Reset and setup
Operating function selection	Through buttons with indication on the display of the selected function Possibility to inhibit keypad operation via a jumper or key combination
Main programming functions	Entry of access password for user and installer Opening and closing speed adjustment Opening and closing force adjustment Anti-crushing adjustment Pause time adjustment Energy saving enabling Management of diagnosis display Weekly calendar management Management of battery kit and motor block I/O programming Maintenance cycle warning Performed cycle number displaying
Programming	Complete with access with PROGRAMMER code and basic with USER code

LK EVO

Function selector



- Supplied as an accessory, it enables access to the main automatic functions and indicates when it is on through LED lights

Model	Description	Item code
LK EVO	Function selector	790024



TECHNICAL SPECIFICATIONS

Model	LK EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Through buttons with LED indication of the selected function
Selectable functions	Keypad inhibition, setup, reset (also via jumper)
Diagnostics	Through a combination of flashing LEDs

KS EVO

Key function selector



- Supplied as an accessory, it enables access to the main automatic functions and allows modification of these using the supplied key
- No.2 keys standard supplied

Model	Description	Item code
KS EVO	Key function selector	790942



TECHNICAL SPECIFICATIONS

Model	KS EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Using a key with LED indication of the selected function
Diagnostics	Through a combination of flashing LEDs

Touch button



Model	Description	Item code
XMS	Touch button	105084



TECHNICAL SPECIFICATIONS

Model	XMS
Technology	Microwave
Detection mode	Bidirectional movement Min. detection speed: 3 cm/s
Power supply voltage	12V - 24V ~ / --- -5% / +10%
Power supply frequency	50 to 60 Hz
Max. power	< 1,2 W
Emitted power density	< 5 mW/cm ²
Frequency of use	24.150 GHz
Detection area	± (10 ÷ 50) cm if the movement is perpendicular towards the sensor
Operating ambient temperature	From -25 °C to +55 °C
Contact maintenance time	0.5 s
Protection class	IP52 max. with wall assembly and silicon
Output type	relay (free additional contact) 48V ~ / --- - 1A (resistive) - 30W (V ---) / 48VA (~)
Type of cover material	ABS / PC
Cover color	White
Compliance with regulations	R&TTE 1999/5/EC; EMC 2004/108/EC
Dimensions (LxHxD)	84 mm x 84 mm x 45 mm

ACCESSORIES



XMS-VB wall mounting
support
(only for XMS)

105085



Electronic pulse generators



XTR B

TECHNICAL SPECIFICATIONS

Model	XTR B	XTR B INOX
Installation type	wall or on column installation	wall or on column installation
Power supply voltage	Bus 2easy, with 2 non polarised wires 24 V ---	Bus 2easy, with 2 non polarised wires 24 V ---
Max consumption	50 mA	50 mA
Max number of connectable READERS on the Bus2Easy control unit	14 (single channel) - 4 (two-channels)	14 (single channel) - 4 (two-channels)
Protection class	IP54	IP54
Dimensions (LxDxH)	100 x 72 x 21 mm	100 x 72 x 21 mm
Tag format	13,56 MHz Keyring	13,56 MHz Keyring

To be used together with BUS-RELAY interface

Model	Description	Item code
XTR B	TAG Reader	786041
XTR B INOX	INOX TAG Reader	786040

INSTALLATION ACCESSORIES



External tube adapter*

Adapter for column or flush mounted*

401064

401065

ACCESSORIES



Metal keytag

401306



Keytag

401048



XBR2 BUS-RELAY Interface 2CH

790064



XBR4 BUS-RELAY Interface 4CH

790065

NOTE

* For wall installations with external or column or flush mounted pipe you must use the adapter 401064 and 401065.



Electronic pulse generators



XKP B

TECHNICAL SPECIFICATIONS

Model	XKP B STAINLESS STEEL
Installation type	wall or on column installation
Power supply voltage	Bus 2easy, with 2 non polarised wires 24 V $\overline{\text{---}}$
Max consumption	20 mA
Number of codes and commands	255
Protection class	IP54
Dimensions (LxDxH)	72 x 21 x 100 mm

If used with FAAC automation mod. A1000, A1400 AIR, A1400 AIR RD or 950N2, you must use an XBR2 or XBR4 receiver

If used with FAAC automation mod. A951, you must use the communication board Code 390166

Model	Description	Item code
XKP B STAINLESS STEEL	Controller with keypad	404039

Available starting from June 2018



INSTALLATION ACCESSORIES



External tube adapter

Adapter for column or flush mounted*

401064

401065

ACCESSORIES



XBR2 BUS-RELAY
Interface 2CH

790064

NOTE

* For wall installations with external or column or flush mounted pipe you must use the adapter 401064 and 401065.



Electronic pulse generators

XKP W

TECHNICAL SPECIFICATIONS

Model	XKP W 433	XKP W 868
Installation type	wall or on column installation	wall or on column installation
Power supply voltage	Battery powered CR2450 3 W qt. 2	Battery powered CR2450 3 W qt. 2
Frequency of use	433.92 MHz	868.35 MHz
Radio signal decoding	SLH: Rolling code encrypted self-learning	SLH: Rolling code encrypted self-learning
Max. Number of commands	4	4
Max. Number of users' codes	255	255
Average battery life	2 years	2 years
Dimensions (LxDxH)	72 x 21 x 100 mm	72 x 21 x 100 mm
Protection class	IP54	IP54
Operating ambient temperature	-20 °C +55 °C	-20 °C +55 °C
Material type	Stainless Steel	Stainless Steel



If used together with FAAC doors Mod. A1000, A1400 AIR, A1400 AIR RD or 950N2 it is necessary to use a XR2 or XR4 receiver 433 Mhz or 868 Mhz

If used together with FAAC doors Mod. A951 it is necessary to use a communication board Code 390166 + XF 433 Mhz o XF 868 Mhz receiver

Model	Description	Item code
XKP W 433 INOX	Combination radio transmitter	404037
XKP W 868 INOX	Combination radio transmitter	404038

Available starting from June 2018

INSTALLATION ACCESSORIES



External tube adapter

Adapter for column or flush mounted*

401064

401065

NOTE

♦ For wall installations with external or column or flush mounted pipe you must use the adapter 401064 and 401065.

PULSE GENERATORS



T20 E
Recessed installation ♦

401012



T21 EF
Wall-mounted (T21 EF)
or recessed (T21 IF)
installation ♦

401016



T20 I
Recessed installation ♦

401014



T21 IF
Wall-mounted (T21 EF)
or recessed (T21 IF)
installation ♦

401017



European cylinder lock
(T20 - T21 - XK21) with
customised key from
1 to 36

712052-87



Enclosure to be
embedded (T20 - T21)
(20 pcs. pack)

720316



XK30 Key selector with
lever release

391456



Plastic elbow button
(dim. 95 x 250 mm)

401003



Aluminium elbow
button
(dim. 95 x 250 mm)

401004



Release sheath and
cable for buttons T21
EF / T21 IF / XK21L
(length 6 m)

390423

NOTE

- ♦ Provided without lock
- ◆ Provided without lock and designed for release device

RADARS AND SENSORS

FAAC Radars & Sensors

RADARS AND SENSORS

FAAC Radars & Sensors

The FAAC sensor range offers all the latest technological solutions on the market both for automatic door opening and safety.

For door opening, FAAC uses one-directional microwave type sensors which are able to detect the movement of people correctly.

All protection sensors use the active infrared technology and protect people during the entire door movement (opening and closing); they are monitored and comply with European Standard EN 16005.







































The wide range of FAAC sensors allows you to choose the best solution according to the type of installation required.

Sensor technology	People movement detection (pharmacy, offices, shops)	People or object movement detection (supermarkets, shopping centres)	People and object presence detection. Safety device
ONE-DIRECTIONAL microwave	x	x	
ACTIVE infrared	x	x	x

Common accessories for sliding doors

ITEM CODE	DESCRIPTION	RADAR DETECTION AREA (M)	SENSOR INSTALLATION HEIGHT	REMOTE CONTROL
105129	XM100 ONE One-directional microwave radar	4x2 or 2x2.25	3	-
105091	XBFRM1 One-directional microwave radar	4x2 or 2x2.25	3	-
105084	XMS Touch button	0,5	-	-
105104	XDT3 One-directional radar + escape route infrared safety	4x2 or 2x2.25	3,5	yes
105114	XDT1 One-directional radar + infrared safety	4x2 or 2x2.25	3,5	yes
105108	XV1 One-directional radar + infrared safety	4x2	3	-
105090	XBFA ON Active infrared sensor	2,8	3	-
105132	XBFA ST Active infrared sensor	3	3,5	yes
105118	X1S 1-Spot infrared sensor	0,4	3	-
105094				
105095	XPBxxx ON	0.4x0.07 with 1 module	3,5	-
105096	Active infrared sensor	0.8x0.07 with 2 modules		
105107				

Common accessories for sliding doors

USE APPLICATION	TYPE OF RADAR	TYPE OF SENSOR	CERTIFICATION
 	People detection and people + objects	-	-
 	People detection and people + objects	-	-
  	Opening via touch button	-	-
  	People detection and people + objects	People and object safety device	EN16005 Energy Saving For escape routes
 			
  	People detection and people + objects	People and object safety device	EN16005 Energy Saving
 			
  	People detection and people + objects	People and object safety device	EN16005 Energy Saving
 			
  	-	People and object safety device	EN16005
 			
  	-	People and object safety device	EN16005
 			
 	-	People and object safety device	-
   	-	People and object safety device	EN16005



Photocells

MINISWITCH GLS



- Photocells are auxiliary safety devices. For the correct use in countries where Standard EN 16005 is applied, refer to the Standard itself.

Model	Description	Item code
MINISWITCH GLS	Photocell comprising 1 transmitter and 1 receiver and connecting cables with length 8 m	105209
	Recessed front panels for MINISWITCH GLS	105211

TECHNICAL SPECIFICATIONS

Model	MINISWITCH GLS
Power supply voltage	24 Vac - 24 VDC
Max. current	70 mA
Alignment	Automatic
Reception angle	$\pm 5^\circ$
Nominal range	5 m
Operating ambient temperature	$-20^\circ\text{C} \div +55^\circ\text{C}$
Protection class	IP 66

XFA BUTTON



- Photocells are auxiliary safety devices. For the correct use in countries where Standard EN 16005 is applied, refer to the Standard itself.

Model	Description	Item code
XFA	Button photocell	105127

TECHNICAL SPECIFICATIONS

Model	XFA
TRANSMITTER HEAD	
Power supply voltage	5 V \pm 5%
Absorbed current	< 150 mA
RECEIVER HEAD	
Power supply voltage	5 V \pm 5%
Absorbed current	< 1 mA; permanent current (not being detected) - transistor output OFF
Additional current	5 mA \pm 10% (being detected) - transistor output ON

XBFRM1



Model	Description	Item code
XBFRM1	One-directional microwave radar	105091



TECHNICAL SPECIFICATIONS

Model	XBFRM1
Power supply voltage	12 V - 24 V ~ +/-10% ; 12 V - 30 V $\overline{\text{---}}$ +/-10%
Power supply frequency	50 to 60 Hz
Max. power	< 2 W
Emitted power	< 20 dBm EIRP
Emitted power density	< 5 mW/cm ²
Frequency of use	24.150 GHz
Installation height	from 1.8 m to 3 m
Detection area	4 m (L) x 2 m (D)
Tilt angle	0° to 90° vertically; -30° to +30° sideways
Operating ambient temperature	-20 °C to +55 °C
Dimensions (LxDxH)	120 mm (L) x 80 mm (H) x 50 mm (D)
Weight	120 g
Cable length	2.5 m
Protection class	IP64
Type of cover material	ABS
Cover color	black smoke
Detection mode	Movement; Min. detection speed: 5 cm/s
Technology	microwave doppler radar
Output type	SOLID STATE RELAY (with no potential, with no polarity); Max. output current: 1 A (resistive); Contact voltage: 42V AC/DC; Contact capacity: 30 W (DC) / 60 VA (AC)
Implementation directives	R&TTE 1999/5/EC; EMC 2004/108/EC

Note: unidirectionality is a feature that allows people approaching the automatic door to be detected but not their subsequent moving away, speeding up the closing of the doors

ACCESSORIES



XBA1 mounting bracket
(only for XBFRM1)



XRA1 rain protection
(only for XBFRM1)

105092

105093

XM100 ONE



Model	Description	Item code
XM100 ONE	Compact one-directional microwave radar	105129



TECHNICAL SPECIFICATIONS

Model	XM100 ONE
Power supply voltage	12 V - 24 V \pm +30% / -10%
Max. power	< 2 W (VA)
Emitted power	< 20 dBm EIRP
Emitted power density	< 5 mW/cm ²
Frequency of use	24.175 GHz
Installation height	from 1.8 m to 3 m
Detection area	4 m (L) x 2 m (D)
Tilt angle	from 0° to 90° vertical and from -30° to +30° side
Operating ambient temperature	-20 °C to +55 °C
Dimensions (LxDxH)	80 mm (L) x 60 mm (H) x 55 mm (D)
Weight	140 g
Cable length	2.5 m
Protection class	IP54
Type of cover material	ABS & polycarbonate
Cover color	black smoke
Detection mode	Movement; Min. detection speed: 5 cm/s
Technology	hyperfrequency and microprocessor
Output type	SOLID STATE RELAY (with no potential, with no polarity); Max. output current: 1 mA; Contact voltage: 35VDC e 24VAC
Implementation directives	R&TTE 1999/5/EC; EMC 2004/108/EC

ACCESSORIES



XMRA rain protection
(only for XM100 ONE)

XBFA ON



Model	Description	Item code
XBFA ON	Active "movement or presence" infrared sensor	105090

EN16005



TECHNICAL SPECIFICATIONS

Model	XBFA ON
Power supply voltage	12 V - 30 V \pm -5%/+10%
Max. power	< 2.2 W
Installation height	From 1.8 m to 3 m
Operating ambient temperature	From -25 °C to +55 °C
Protection class	IP54
Noise	< 70 dB
Life expectancy	20 years
Detection mode	Presence; Standard response time: < 256 ms
Tilt angle	From -4° to +4° (adjustable)
Technology	Active infrared with background analysis; Spot diameter: 0.1 m (standard); Number of spots: max. 24 per curtain; Number of curtains: 2
Output type	SOLID STATE RELAY (standard); Max. output current: 100 mA; Contact voltage: 42 V AC/DC; Maintenance time: 0,3 to 1 s
Monitoring entrance	Sensitivity: low < 1 V; high: > 10 V (max. 30 V); Response time of the required test: standard: < 5 ms
Implementation directives	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC
Certifications	EN 16005:2012; EN 12978:2009; EN IEC 62061:2005 SIL2; EN 61496-1:2012 ESPE Type 2; EN ISO 13849-1:2008 PI «c» CAT.2 (provided that the control system monitors the detector at least once for each door cycle)

Note: active monitored infrared technology in compliance with standard EN 16005 with safety double curtain.

ACCESSORIES



XDT-RA rain protection
(only for XDT1, XDT3,
XV1 and XBFA ON/ST)

105137



Spotfinder device for
identifying the position
of the safety infrared
curtain

785187

XBFA ST



Model	Description	Item code
XBFA ST	Active "movement or presence" infrared sensor	105132

EN16005



TECHNICAL SPECIFICATIONS

Model	XBFA ST
Power supply voltage	12 V - 30 V \pm -5%/+10%
Max. power	< 2.5 W
Installation height	From 2 m to 3.5 m
Operating ambient temperature	-25 °C to +55 °C; 0-95% relative humidity, non-condensing
Protection class	IP54
Noise	< 70 dB
Life expectancy	20 years
Detection mode	Presence; Standard response time: <200 ms (max. 500ms)
Technology	Active infrared with background analysis; Spot: 5cm x 5cm (typ); Number of spots: max. 24 per curtain; Number of curtains: 2
Output type	SOLID STATE RELAY (standard); Max. output current: 100 mA; Contact voltage: 42 V AC/DC; Maintenance time: 0,3 to 1 s
Monitoring entrance	Sensitivity: low < 1 V; high: > 10 V (max. 30 V); Response time of the required test: standard: < 5 ms
Implementation directives	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC
Certifications	EN 16005:2012 Chapter 4.6.8; EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the control system monitors the detector at least once for each door cycle); EN 12978; IEC 61496-1:2012 ESPE Type 2; DIN 18650-1:2010 Chapter 5.7.4; BS 7036-1:1996 Chapter 8.1

Note: active monitored infrared technology in compliance with standard EN 16005 with safety double curtain.

ACCESSORIES



XDT-RA rain protection
(only for XDT1, XDT3,
XV1 and XBFA ON/ST)

105137



Radio control TF1
(for XDT1, XDT3, XBFA
ST adjustments)

785541



Model	Description	Item code
XV1	Mono directional "movement and presence" radar with dual technology	105108



TECHNICAL SPECIFICATIONS

Model	XV1
Power supply	12 V - 30 V DC -5%/+10% (to be operated only with power supply units compatible with SELV regulations)
Max. power	< 2.2 W
Installation height	From 1.8 m to 3 m
Monitoring entrance	< 1 V : Log. L; > 10 V: Log. H (max. 30 V)
Operating ambient temperature	From -25 °C to +55 °C
Protection class	IP54
Noise	< 70 dB
Life expectancy	20 years
Certifications	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS 2 2011/65/EU; EN 16005:2012; EN 12978:2009; EN IEC 62061:2005 SIL2, EN 61496-1:2012 ESPE Type 2; EN ISO 13849-1:2008 PI «c» CAT.2 (provided that the control system monitors the detector at least once for each door cycle)



GREEN LED



RED LED

	GREEN LED	RED LED
Detection mode	Movement; Min. detection speed: 5 cm/s	Presence; Standard response time: < 256 ms
Technology	Microwave doppler radar; Emitted frequency: 24.150 GHz; Radiated power: < 20 dBm EIRP; Radiated power: < 20 dBm EIRP; Emitted power density: < 5 mW/cm ²	Active infrared with background analysis; Spot diameter: 0.1 m (standard); Number of spots: max. 24 per curtain; Number of curtains: 2
Tilt angle	From 15° to 50° increasing (adjustable)	From -4° to +4° (adjustable)
Output type	Solid state relay (with no potential, with no polarity)	Solid state relay (with no potential, with no polarity) - 100
Contact current	100 mA	mA - 42 V ~/ ---
Contact ratings	42 V ~/ ---	
Contact maintenance time	0.5 s	from 0.3 s to 1 s (cannot be adjusted)
Monitoring entrance		Standard: < 5 ms

ACCESSORIES



XV1-CA false ceiling recessed support (only for XV1 sensors)

105136



XDT-BA mounting bracket (only for XDT1, XDT3, XV1 sensors)

105106



XDT-RA rain protection (only for XDT1, XDT3, XV1 and XBFA ON/ST)

105137



Spotfinder device for identifying the position of the safety infrared curtain

785187

XDT1



Model	Description	Item code
XDT1	Mono directional "movement and presence" radar with dual technology	105114



TECHNICAL SPECIFICATIONS

Model	XDT1	
Power supply voltage	12 V - 24 V ~ +/-10% ; 12 V - 30 V === +/-10% (to be operated only with power supply units compatible with SELV regulations)	
Max. power	< 2.5 W	
Installation height	2 m to 3.5 m (local regulations can influence the recommended fitting height)	
Operating ambient temperature	-25 °C to +55 °C; 0-95% relative humidity, non-condensing	
Protection class	IP54	
Noise	< 70 dB	
Life expectancy	20 years	
Detection mode	Movement; Min. detection speed: 5 cm/s	Presence; Standard response time: < 200 ms (max. 500 ms)
Technology	Microwave doppler radar; Emitted frequency: 24.150 GHz; Radiated power: < 20 dBm EIRP; Emitted power density: < 5 mW/cm ²	Active infrared with background analysis Spot: 5 cm x 5 cm (typ); Number of spots: max. 24 per curtain; Number of curtains: 2
Output type	SOLID STATE RELAY; 100 mA; 42 V ~/ ===	SOLID STATE RELAY (standard); 100 mA; 42 V ~/ === Maintenance time: 0,3 to 1 s
Monitoring entrance	Sensitivity: low < 1 V; high: > 10 V (max. 30 V); Response time of the required test: standard: < 5 ms	
Implementation directives	R&TTE 1999/5/EC; EMC 2004/108/EC; MD 2006/42/EC; RoHS 2002/95/EC	
Certifications	EN 16005:2012 Chapter 4.6.8; EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the control system monitors the detector at least once for each door cycle) EN 12978; DIN 18650-1:2010 Chapter 5.7.4; BS 7036-1:1996 Chapter 8.1	

ACCESSORIES



XDT-CA false ceiling recessed support (only for XDT1, XDT3 sensors)

105107



XDT-BA mounting bracket (only for XDT1, XDT3, XV1 sensors)

105106



XDT-RA rain protection (only for XDT1, XDT3, XV1 and XBFA ON/ST)

105137



Radio control TF1 (for XDT1, XDT3, XBFA ST adjustments)

785541

XDT3



Model	Description	Item code
XDT3	Mono directional "movement and presence" radar with dual technology for escape routes	105104



TECHNICAL SPECIFICATIONS

Model	XDT3	
Power supply voltage	12 V - 24 V ~ +/-10% ; 12 V - 30 V --- +/-10% (to be operated only with power supply units compatible with SELV regulations)	
Max. power	< 2.5 W	
Installation height	2 m to 3.5 m (local regulations can influence the recommended fitting height)	
Operating ambient temperature	-25 °C to +55 °C; 0-95% relative humidity, non-condensing	
Protection class	IP54	
Noise	< 70 dB	
Life expectancy	20 years	
Detection mode	Movement; Min. detection speed: 5 cm/s	Presence; Standard response time: < 200 ms (max. 500 ms)
Technology	Microwave doppler radar; Emitted frequency: 24.150 GHz; Radiated power: < 20 dBm EIRP; Emitted power density: < 5 mW/cm ²	Active infrared with background analysis Spot: 5 cm x 5 cm (typ); Number of spots: max. 24 per curtain; Number of curtains: 2
Output type	SOLID STATE RELAY; 100 mA; 42 V ~/- --- FREQUENCY OUTPUT: Pulse signal (f= 100 Hz +/- 10%);CURRENT OUTPUT: Direct current galvanically insulated Status in "no detection" condition: current power supply ON; Open circuit voltage: 6.5 V; Status in "detection" condition: current power supply OFF; Open circuit residual voltage: < 500 mV	SOLID STATE RELAY (standard); 100 mA; 42 V ~/- --- Maintenance time: 0,3 to 1 s
Monitoring entrance	Sensitivity: low < 1 V; high: > 10 V (max. 30 V); Response time of the required test: standard: < 5 ms	
Implementation directives	R&TTE 1999/5/EC; MD 2006/42/EC; LVD 2006/95/EC; ROHS2 2011/65/EU	
Certifications	EN 12978; EN ISO 13849-1:2008 PL «d» CAT. 2; EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; AutSchR; BS 7036-1:1996 Chapter 7.3.2 (only applicable for frequency and direct current outputs)	EN 12978; EN ISO 13849-1:2008 PL «c» CAT. 2 (provided that the control system monitors the detector at least once for each door cycle) EN 16005:2012 Chapter 4.6.8; DIN 18650-1:2010 Chapter 5.7.4; BS 7036-1:1996 Chapter 8.1

ACCESSORIES



XDT-CA false ceiling recessed support (only for XDT1, XDT3 sensors)

105107



XDT-BA mounting bracket (only for XDT1, XDT3, XV1 sensors)

105106



XDT-RA rain protection (only for XDT1, XDT3, XV1 and XBFA ON/ST)

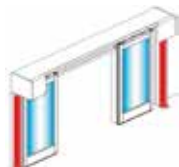
105137



Radio control TF1 (for XDT1, XDT3, XBFA ST adjustments)

785541

X1S



Model	Description	Item code
X1S	Active "movement or presence" infrared sensor X1S - 1 SPOT	105118



TECHNICAL SPECIFICATIONS

Model	X1S
Power supply voltage	12V - 24V ~ / --- -5% / +10%
Max. power	120 mA @ 24V ~ / 80 mA @ 24 V ---
Installation height	0.6 - 3 m
Detection area	35x70 mm (at the height of 2.2 m)
Response time	64 ms
Contact maintenance time	0.5 s
Reflection	min. 10% at an IR wavelength of 850 nm
Operating ambient temperature	From -25 °C to +55 °C; 0-95% relative humidity Non-condensing
Protection class	IP53
Technology	active infrared
Detection mode	presence detector with distance measurement
Output type	relay (free additional contact); Max contact voltage: 42V ~ / --- ; 1A (resistive); Maximum switching power: 30W (V ---) / 60VA (~)
Input type	1 optocoupler (free additional contact); Maximum contact voltage: 30 V; Voltage threshold: high mode > 10 V; low mode < 1 V
Compliance with regulations	Electromagnetic Compatibility (EMC) according to the 2004/108/EEC directive

ACCESSORIES



X1S-SMA mounting
bracket for X1S (only
for X1S)

105119

ACCESSORIES



XMRA rain protection
(only for XM100 ONE)

105086



XBA1 mounting bracket
(only for XBFRM1)

105092



XRA1 rain protection
(only for XBFRM1)

105093



XDT-CA false ceiling
recessed support
(only for XDT1, XDT3
sensors)

105107



XV1-CA false ceiling
recessed support (only
for XV1 sensors)

105136



XDT-BA mounting
bracket (only for XDT1,
XDT3, XV1 sensors)

105106

>>



XDT-RA rain protection
(only for XDT1, XDT3,
XV1 and XBFA ON/ST)

105137



Pair of recessed
front panels for
MINISWITCH GLS in
black plastic

105211



Spotfinder device for
identifying the position
of the safety infrared
curtain

785187



Radio control TF1
(for XDT1, XDT3, XBFA
ST adjustments)

785541



X1S-SMA mounting
bracket for X1S (only
for X1S)

105119

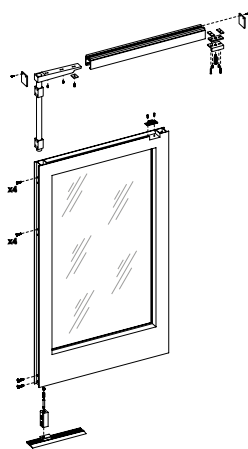
ANTI-PANIC BREAKOUT SYSTEM

APN

ANTI-PANIC BREAKOUT SYSTEM

APN

APN 1 Anti-panic breakout system



Use on automated system head sections A1000 - A1400 AIR

- Hinge with ball lock
- Motor stop photocell
- Group of floor sliding blocks
- Installation accessories
- Version for mobile leaf (right or left)
- Photocell fitting kit
- Sticker

Adaptability to all commercial profiles with internal chamber of at least 30x30 mm

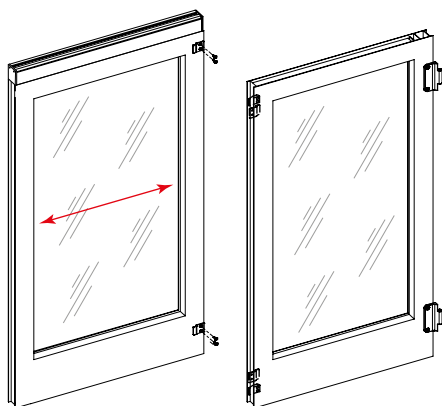
Description	Item code
Kit for mobile leaf (RH or LH)	105523

Note: add the leaf and track attachment profiles listed below to the kit.

TECHNICAL SPECIFICATIONS

Leaf length (mm)	500 ÷ 700	750 ÷ 950	1000 ÷ 1200	H max.
Max. leaf weight without anti-panic system	90 Kg	80 kg	75 kg	2800 mm

APN 1 + 1 Integral anti-panic breakout system



Use on automated system head sections A1000 - A1400 AIR

- Hinge with ball lock
- Group of floor sliding blocks
- Installation accessories
- Version for mobile and fixed leaf (right or left)
- Magnetic contacts for motor stop
- Anti-scratch and anti-burglar components kit for semi-fixed leaf
- Cable puller for safety photocell
- Sticker

Adaptability to all commercial profiles with internal chamber of at least 30x30 mm

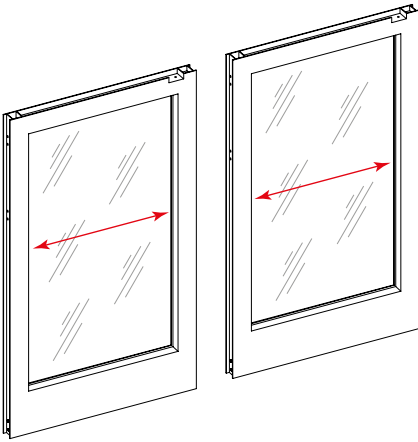
Description	Item code
Kit for mobile or semi-fixed leaf (RH or LH)	105525

Note: add the leaf and track attachment profiles listed below to the kit.

TECHNICAL SPECIFICATIONS

Leaf length (mm)	500 ÷ 700	750 ÷ 950	1000 ÷ 1200	H max.
Max. leaf weight without anti-panic system	90 Kg	80 kg	75 kg	2800 mm

APN 2 Anti-panic breakout system



Use on automated system head sections A1000 - A1400 AIR

Hinge with ball lock
 Motor stop photocell
 Group of floor sliding blocks
 Installation accessories
 Version for mobile leaf (right - left)
 Photocell fitting kit
 Sticker

Adaptability to all commercial profiles with internal chamber of at least 30x30 mm

Description	Item code
Kit for 2 mobile leaves	105524
<i>Note: add the leaf and track attachment profiles listed below to the kit.</i>	

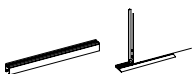
TECHNICAL SPECIFICATIONS

Leaf length (mm)	500 ÷ 700	750 ÷ 950	1000 ÷ 1200	H max.
Max. leaf weight without anti-panic system	90 Kg	80 kg	75 kg	2800 mm

APN 2 + 2 Integral anti-panic breakout system

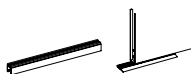
For 2 mobile and 2 semi-fixed leaves 2 kits (APN 1 + 1 Cod. 105525) are needed

ACCESSORIES TO BE ADDED TO THE APN KITS



Upper profile L 900 mm with lower guide profile L 1500 mm

390883



Upper profile L 1300 mm with lower guide profile L 1500 mm

390882

NOTE

ATTENTION: make orders according to the leaf width.

RAPPORTO DI PROVA N. 312122

Luogo e data di emissione: Bellaria-Igea Marina - Italia, 28/12/2013

Committente: FAAC S.p.A. - Via Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italia

Data della richiesta della prova: 18/11/2013

Numero e data della commessa: 61397, 18/11/2013

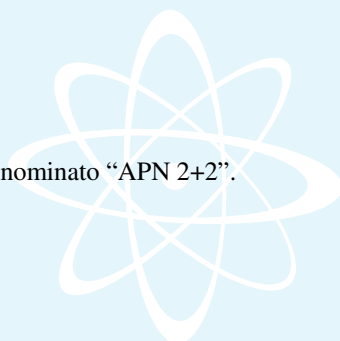
Data dell'esecuzione della prova: 26/11/2013

Oggetto della prova: Verifica in situ della forza di sfondamento di ante di chiusura automatizzata pedonale secondo il paragrafo 4.7.2.2 della norma UNI EN 16005:2012

Luogo della prova: TEKNO'S S.r.l. - Via Galileo Galilei, 1 - 35020 LEGNARO (PD) - Italia

Denominazione del campione*.

Il campione sottoposto a prova è denominato "APN 2+2".



Descrizione del campione*.

Il campione sottoposto a prova è costituito da un sistema antipanico a sfondamento per ante mobili semifisse per porte pedonali automatiche, in particolare il sistema è composto da 2 ante mobili più 2 semifisse realizzate con profili TK50, e avente le seguenti caratteristiche dimensionali:

- larghezza totale = 5320 mm;
- altezza totale = 3000 mm;

(*): secondo le dichiarazioni del Committente.

Comp. MB
Revis. PB

Il presente rapporto di prova è composto da n. 9 fogli.

Foglio
n. 1 di 9

CLAUSOLE: il presente documento si riferisce solamente al campione o materiale sottoposto a prova e non può essere riprodotto parzialmente, salvo approvazione scritta dell'Istituto Giordano.

TK20 AND TK50 SERIES PROFILES

TK20 - TK50

Typical Installation Examples page. 158

The complete entrance, the perfect solution to satisfy your needs.

To meet the market requirements in terms of integrated solutions for building access/exit, FAAC offers complete entrance supply.

The complete entrance is produced combining one frame (made with aluminium and glass profiles) and one automatic operator. **This price list only refers to the frame** made of aluminium profiles **and does not include the automatic operator and its accessories** which must be ordered separately (the operator selection has to be made apart from the selection of the complete entrance as it is determined by factors linked to the project type to be created).

The price list specifies the main characteristics of the entrances as far as size and price are concerned and includes a general diagram of the entrance on the left side, to facilitate correct installation.

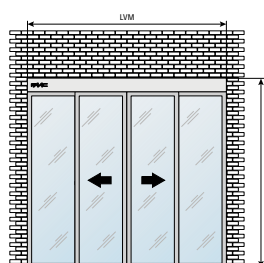
Attention to your needs.

The FAAC complete entrance price list is easy to consult and helps you choose a product tailored to your needs.

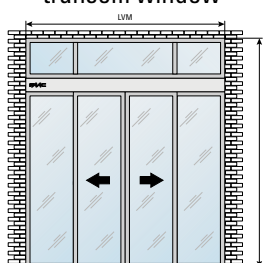
Practical and quick to have everything under control.

The price list has been divided into sheets indicating the type of profile used (TK50 or TK20 series) and the type of entrance installed (standard, standard with transom window, with APN anti-panic breakout system, with APN anti-panic breakthrough system and transom window).

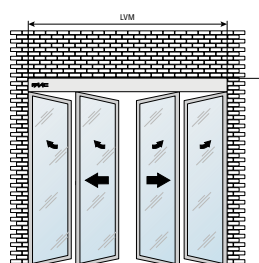
Standard entrance



Standard entrance with transom window



Entrance with integral APN



Entrance with integral APN and transom window



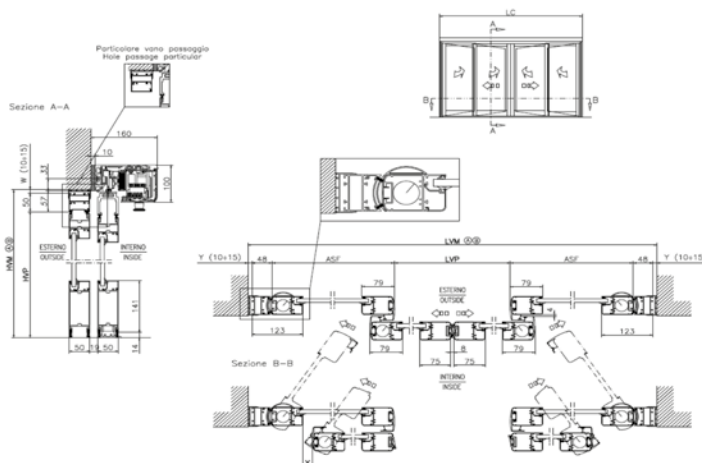
How to use the complete entrance price list.

The price list specifies the main characteristics of the entrances as far as size and price are concerned and includes a general diagram of the entrance on the left side, to facilitate correct installation.

Any type of non-standard entrance (not specified on the price list) can be requested directly to the FAAC technical-commercial reference person directly.

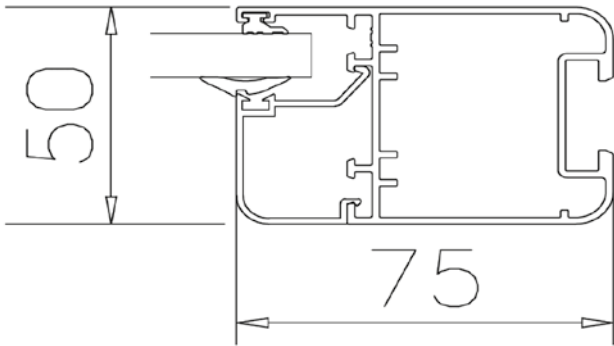
The detailed technical drawings (in pdf/dxf/dwg format) for each type of automatic door indicated in the price list, combined with the selected operator are available at FAAC.

Entrance example drawing made with TK50 series profiles, with APN anti-panic breakout system and A1000 operator.



Technical specifications

The FAAC entrances have been produced with aluminium alloy profiles with transverse section of 50 mm (TK50 series) and 20 mm (TK20).



Example of transverse section of the profile TK50 (width 50 mm)



Example of transverse section of the profile TK20 (width 20 mm)

The FAAC profiles have been specifically developed in the internal R&D department, in order to create a product expressly conceived for use on automated entrances, which guarantees a high level of performance and safety.

TK50 profiles

The 50 mm transverse section of these profiles guarantees a high resistance to mechanical stress to the entrance. The TK50 profiles can support both laminated glasses (8 mm and 10 mm) and double-glazing (up to 32 mm thickness). Vertical profiles and glass guides have rounded (non-sharp) edges, in order to increase safety in the case of a collision. The lower shoe is 141 mm high and includes the seats for the thermal seal brushes and the sliding track for the floor sliding block (guide).

At the external sides of the sliding leaves is applied a vertical door profile which is coupled with the door-photocell profile by means of a "fin" rubber seal: in this way a "labyrinth" system is created which optimises the entrance thermal sealing. The "labyrinth" system also increases break-in resistance on entrances equipped with APN anti-panic breakout system. The central stop between the 2 sliding leaves (or the wall in the case of a single leaf) consists of a rubber shaped seal that optimises the alignment of the leaves and the thermal seal.

The specific structure of the TK50 profiles makes them perfect for being combined with the FAAC APN anti-panic breakout system: the semi-fixed side leaves are level to the structure and reduce the risk of cut/shearing/entrapment to the minimum. The specific shape of the system also allows the hinges to be hidden, thus improving its appearance.

TK20 profiles

The transverse section of just 20 mm of these profiles guarantees a pleasant appearance to the entrance thanks to the reduced visible area.

The TK20 profiles can support 8 mm and 10 mm laminated glasses.

The lower shoe is 80 mm high and includes the seat for the thermal seal brush and the sliding track for the floor sliding block (guide).

At the external sides of the sliding leaves is applied a vertical rubber door seal which is coupled with the door-photocell profile: in this way the entrance thermal sealing is optimised.

The central stop between the 2 sliding leaves (or the wall in the case of a single leaf) consists of a rubber shaped seal that optimises the alignment of the leaves and the thermal seal.

PROFILES FOR 50 MM AUTOMATIC DOORS

PROFILES FOR 50 MM AUTOMATIC DOORS

TK50

Profiles for complete entrance

Item Code: 1055601



The following tables show the prices of the complete entrances, produced with FAAC TK50 series aluminium profiles. The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double). The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

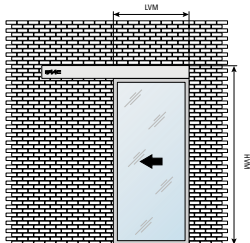
The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

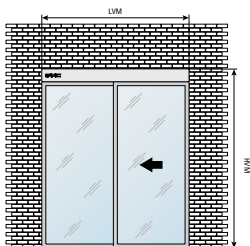
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 SLIDING LEAF (RIGHT OR LEFT OPENING)



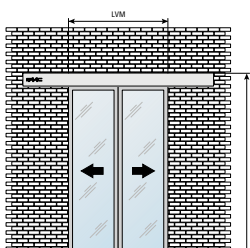
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1000
	1200
	1600
	2000

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF (RIGHT OR LEFT OPENING)



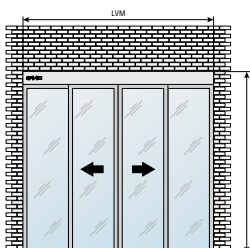
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	3000

ENTRANCE WITH 2 SLIDING LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1500
	2000
	2600
	3000

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2000
	3000
	4000
	5000

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for complete entrance and transom window

Item Code: 1055601



The following tables show the prices of the complete entrances, produced with FAAC TK50 series aluminium profiles with transom window. The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

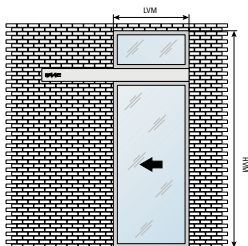
The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

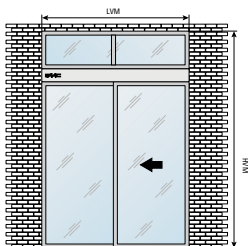
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 SLIDING LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



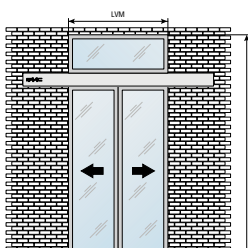
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1000
	1200
	1600
	2000

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



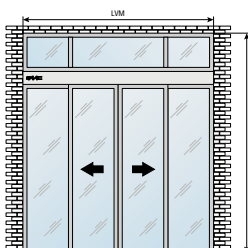
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	3000

ENTRANCE WITH 2 SLIDING LEAVES WITH TRANSOM WINDOW



Description	LVM mm
FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*).	1200
	1600
	2000
	2600
	3000

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES WITH TRANSOM WINDOW



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2000
	3000
	4000
	5000

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for telescopic complete entrance

Item Code: 1055611



The following tables show the prices of the telescopic complete entrances, produced with FAAC TK50 series aluminium profiles.

The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

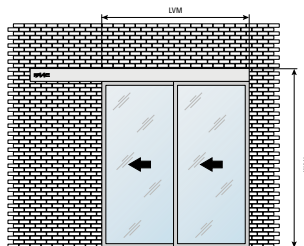
The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

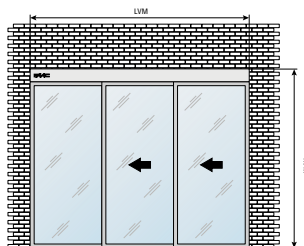
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF (RIGHT OR LEFT OPENING)



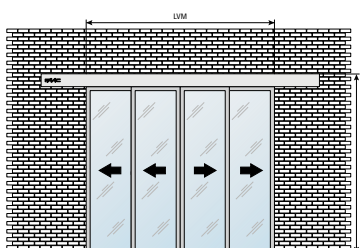
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	3000

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF + 1 FIXED SIDE LEAF (RIGHT OR LEFT OPENING)



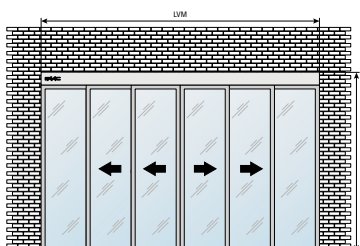
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1800
	2600
	3200
	4000
	4600

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2400
	3200
	4000
	4600

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES + 2 FIXED SIDE LEAVES



Description	LVM mm
FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*).	3000
	4000
	5000
	6100

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for telescopic complete entrance and transom window

Item Code: 1055611



The following tables show the prices of the telescopic complete entrances, produced with FAAC TK50 series aluminium profiles with transom window. The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

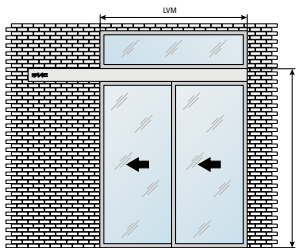
The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

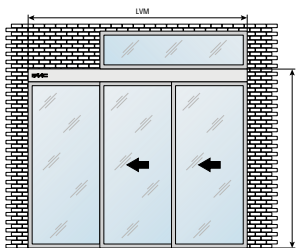
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



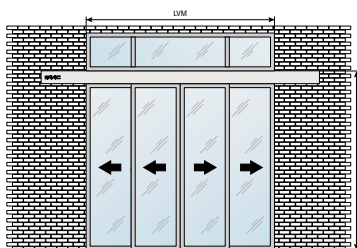
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	3000

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF + 1 FIXED SIDE LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



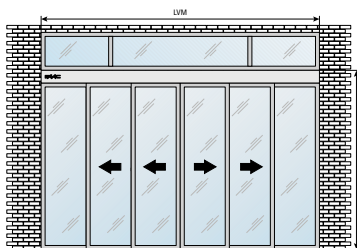
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1800
	2600
	3200
	4000
	4600

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES WITH TRANSOM WINDOW



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2400
	3200
	4000
	4600

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES + 2 FIXED SIDE LEAVES WITH TRANSOM WINDOW



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	3000
	4000
	5000
	6100

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for TK50 complete entrance with APN anti-panic breakout system Item Code: 1055621



The following tables show the prices of the complete entrances, produced with FAAC TK50 series aluminium profiles with APN anti-panic breakout system. The APN mechanical system can be installed on the sliding leaf and on the semi-fixed, side leaf (if present). On the entrances fitted on escape routes it allows swing opening of the leaf in the case of emergency.

If only the sliding leaf is present, the operator must be installed outside the building

The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

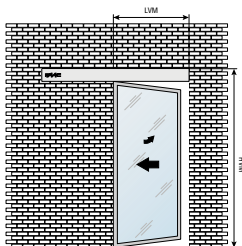
The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

Transport, fitting, activation and final inspection costs are not included in the quotation.



ENTRANCE WITH 1 SLIDING LEAF WITH APN (RIGHT OR LEFT OPENING)



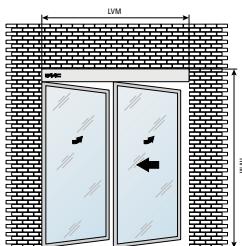
Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

800
1000
1200

ENTRANCE WITH 1 SLIDING LEAF + 1 SEMI-FIXED SIDE LEAF AND INTEGRAL APN (RIGHT OR LEFT OPENING)



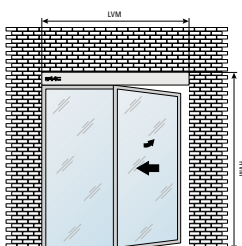
Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

1200
1600
2000
2400

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF AND PARTIAL APN



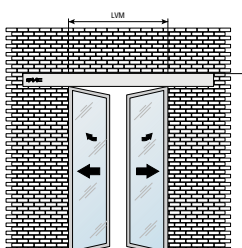
Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

1200
1600
2000
2400

ENTRANCE WITH 2 SLIDING LEAVES AND APN



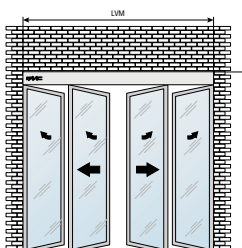
Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

1200
1600
2000
2600

ENTRANCE WITH 2 SLIDING LEAVES + 2 SEMI-FIXED SIDE LEAVES AND INTEGRAL APN



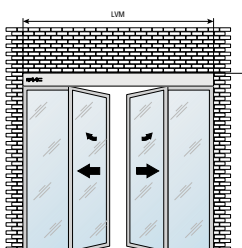
Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

2000
3000
4000
4500

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES AND INTEGRAL APN



Description

Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)

LVM mm

2000
3000
4000
4500

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

(**) In this version the automated system must be installed on the same side of the breakout opening.

Profiles for TK50 complete entrance equipped with APN anti-panic breakout system with transom window

Item Code: 1055621



The following tables show the prices of the telescopic complete entrances, produced with FAAC TK50 series aluminium profiles with APN and transom window. The APN mechanical system can be installed on the sliding leaf and on the semi-fixed, side leaf (if present). On the entrances fitted on escape routes it allows swinging opening of the leaf in the case of emergency.

If only the sliding leaf is present, the operator must be installed outside the building

The TK50 profiles have a 50 mm transverse section and can support different glass thicknesses (single or double).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed on wooden mounts which protect them during transport.

On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

The prices refer to the supply of entrances with pre-assembled leaves (in order to reduce work on site).

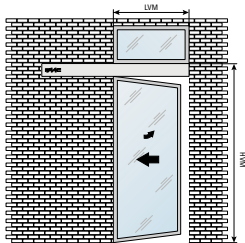
The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

Transport, fitting, activation and final inspection costs are not included in the quotation.

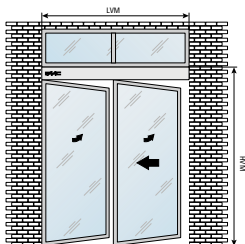


ENTRANCE WITH 1 SLIDING LEAF WITH TRANSOM WINDOW AND APN (RIGHT OR LEFT OPENING)



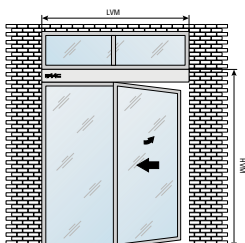
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	800
	1000
	1200

Entrance with 1 sliding leaf + 1 semi-fixed side leaf with transom window and integral APN (right or left opening)



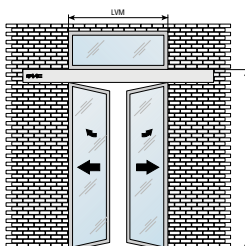
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	2400

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF WITH TRANSOM WINDOW AND PARTIAL APN



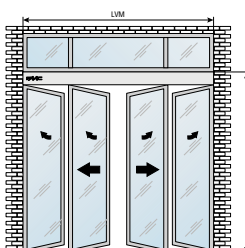
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	2400

ENTRANCE WITH 2 SLIDING LEAVES WITH TRANSOM WINDOW AND APN



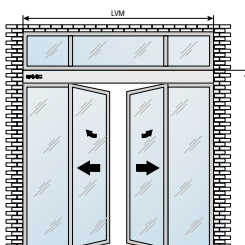
Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	1200
	1500
	2000
	2600

ENTRANCE WITH 2 SLIDING LEAVES + 2 SEMI-FIXED SIDE LEAVES WITH TRANSOM WINDOW AND INTEGRAL APN



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2000
	2000
	4000
	4500

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES WITH TRANSOM WINDOW AND INTEGRAL APN



Description	LVM mm
Frame for FAAC complete entrance made of TK50 profiles supplied pre-assembled and with glass seals (*)	2000
	2000
	4000
	4500

Key

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

(**) In this version the automated system must be installed on the same side of the breakout opening.

20 MM AUTOMATIC DOOR PROFILES

TK20

20 MM AUTOMATIC DOOR PROFILES

TK20

Profiles for complete entrance

Item Code: 1055631



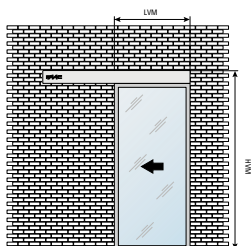
The following tables show the prices of the complete entrances, produced with FAAC TK20 series aluminium profiles. The TK20 profiles have a 20 mm transverse section and can support different glass thicknesses (8 or 10 mm). The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes. The entrances are packed into cardboard assembly boxes: leaves are not pre-assembled due to their nature. On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

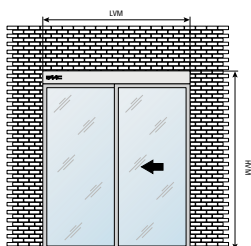
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 SLIDING LEAF (RIGHT OR LEFT OPENING)



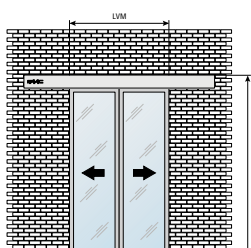
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1000
	1200
	1600
	2000

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF (RIGHT OR LEFT OPENING)



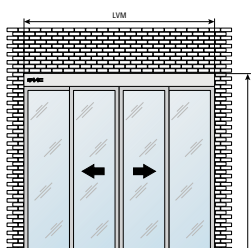
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1200
	1600
	2000
	2400

ENTRANCE WITH 2 SLIDING LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1200
	1500
	2000
	2600
	3000

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	2000
	3000
	4000
	5000

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for complete entrance and transom window

Item Code: 1055631



The following tables show the prices of the complete entrances, produced with FAAC TK20 series aluminium profiles with transom window.

The TK20 profiles have a 20 mm transverse section and can support different glass thicknesses (8 or 10 mm).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed into cardboard assembly boxes: leaves are not pre-assembled due to their nature.

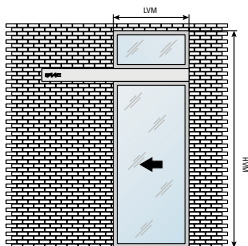
On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

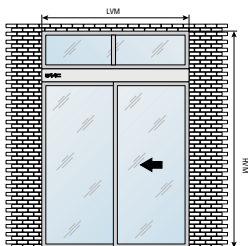
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 SLIDING LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



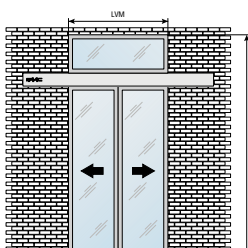
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1000
	1200
	1600
	2000

ENTRANCE WITH 1 SLIDING LEAF + 1 FIXED SIDE LEAF WITH TRANSOM WINDOW (RIGHT OR LEFT OPENING)



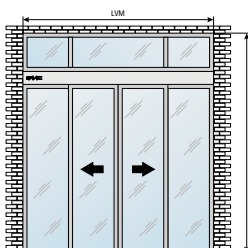
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1200
	1600
	2000
	2400

ENTRANCE WITH 2 SLIDING LEAVES WITH TRANSOM WINDOW



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied disassembled and with glass seals (*)	1200
	1600
	2000
	2600
	3000

ENTRANCE WITH 2 SLIDING LEAVES + 2 FIXED SIDE LEAVES WITH TRANSOM WINDOW



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied pre-assembled and with glass seals (*)	2000
	3000
	4000
	5000

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

Profiles for telescopic complete entrance

Item Code: 1055641



The following tables show the prices of the telescopic complete entrances, produced with FAAC TK20 series aluminium profiles.

The TK20 profiles have a 20 mm transverse section and can support different glass thicknesses (8 or 10 mm).

The prices refer to entrances produced with profiles in silver anodised finishing, complete with rubber seals and air sealing brushes.

The entrances are packed into cardboard assembly boxes: leaves are not pre-assembled due to their nature.

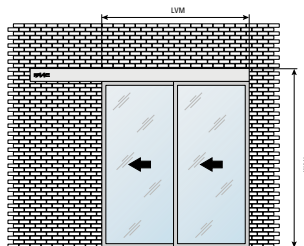
On request, the entrance can be supplied with RAL (powder) painted surface finish with extra charge.

The following components, which can be ordered separately, are not included in the supply:

- automated system
- glazing

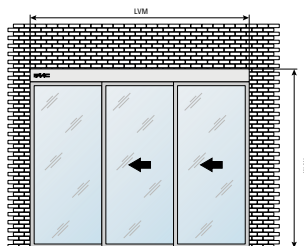
Transport, fitting, activation and final inspection costs are not included in the quotation.

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF (RIGHT OR LEFT OPENING)



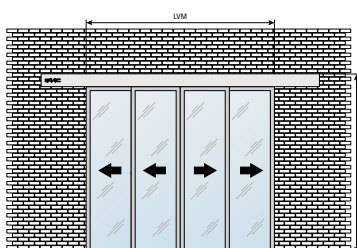
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied pre-assembled and with glass seals (*)	1200
	1600
	2000
	3000

ENTRANCE WITH 1 TELESCOPIC SLIDING LEAF + 1 FIXED SIDE LEAF (RIGHT OR LEFT OPENING)



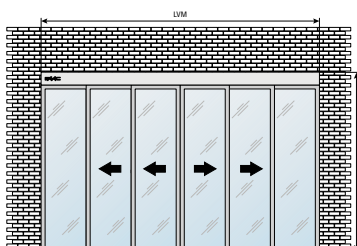
Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied pre-assembled and with glass seals (*)	1800
	2600
	3200
	4000

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied pre-assembled and with glass seals (*)	2400
	3200
	4000
	4600

ENTRANCE WITH 2 TELESCOPIC SLIDING LEAVES + 2 FIXED SIDE LEAVES



Description	LVM mm
Frame for FAAC complete entrance made of TK20 profiles supplied pre-assembled and with glass seals (*)	3000
	4000
	5000
	6100

LVM = Wall recess width

HVM = Wall recess height

(*) glass not included in standard supply: it can be supplied on request with extra charge.

AUTOMATED SYSTEMS FOR SWING DOORS

950N2 A951

Model	Leaf length	Max. leaf weight with sliding arm	Max. leaf weight with articulated arm
950N2	from 700 to 1400	from 71 to 286 kg	from 92 to 367 kg
A951	from 700 to 1100	100 Kg	100 Kg

Typical Installation Examples page. 158

950N2

Automated systems for swing doors



NEW

Leaf length

from 700 to 1400

Max. leaf weight

from 286 to 367 Kg



- 950N2 automation, compliant with EN16005, allows to move doors weighing more than 360 Kg silently and in continuous use.
- The carter can be in anodized aluminium or ABS shaped with innovative design.



EN16005



TECHNICAL SPECIFICATIONS

Model	950N2
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	100 W
Standby power without accessories	5 W
Use frequency	100%
Motor	Motor powered at 24V ---
Max. accessories load	1A - 24V ---
Electric lock power supply voltage	(N.O./N.C.) 24 V --- / 500 mA max.
Dimensions (LxDxH)	530x160x105 mm
Weight	10 kg
Operation in case of power cut	Manual push/pull opening - Spring closing
Max. leaf opening angle	100° ÷ 125°
Opening leaf time	4 - 10 s (adjustable)
Closing leaf time	4 - 10 s (adjustable)
Partial opening adjustment	10% - 90% of total opening
Pause time	0 - 30 s
Night pause time	0 ÷ 90 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 61000-6-2; EN 61000-6-3; EN 13849-1; EN13849-2

FAMILY MODELS

Model	Description	Passage opening (mm)	Max. leaf weight with articulated arm (kg)	Max. leaf weight with sliding arm (kg)	Item code
950N2	With electronic control unit, function selector and plastic cover	700 ÷ 1400	367 Kg - 700mm 92 Kg - 1400 mm	286 Kg - 700mm 71 Kg - 1400 mm	1054142
	With electronic control unit function selector and anodised aluminium cover				1054152
	With electronic control unit, function selector and without cover casing				2050042
Arms	Articulated push arm				390039
	Standard sliding block arm				390040
	Short sliding block arm				390041

THE COMPLETE 950N2 AUTOMATED SYSTEM CONSISTS OF THE FOLLOWING COMPONENTS:

CONTROL UNIT

- Built-in microprocessor control unit with self-diagnosis and continuous monitoring of all door functions
- Anti-crushing protection active both during closing and opening through a high-precision magnetic encoder
- Integrated functions selector with the following operating logics: AUTOMATIC - MANUAL/NIGHT - OPEN
- Self-learning of 'open' and 'closed' door positions
- Selection of the type of arm to be used
- 'CLOSING STROKE' function to assure door closing even in the event of strong wind
- "Partial STOP safety" function that defines the opening safety detection space
- "PUSH and GO" function that controls the motorized opening with an initial manual push of the door
- "SCP" function to increase the force in the final part of the closure
- In the "HOLD-CLOSE" function, the automation opposes any attempts to open the door due to gusts of air or manual pushing
 - KP EVO, LK EVO and KS EVO functions keyboard support
 - The use of KP EVO keyboard features the

following functions:

- Entry of access password for user and installer;
- opening and closing speed adjustments;
- Adjustment of opening and closing speed
- Anti-crushing safety device adjustment
- pause time adjustment;
- Self-diagnosis;
- weekly calendar management;
- Battery kit and lock management;
- I/O programming;
- Maintenance cycle warning;
- Performed cycle number displaying;
- MASTER-SLAVE version for double leaves doors;
- INTERLOCK function;
- INTERCOM function;
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive;

DRIVE UNIT

COMPLETE WITH:

- FAAC electro-mechanical automated system for swing doors with direct current motor and return spring
- Protective cover in anodised aluminium-colour painted plastic material
- Activation arms in extruded aluminium (to be ordered separately.)

- Installation either on the architrave or on the door with outwards or inwards opening
- Manual operation in the event of power failure and spring closing

XPB-ON



Infrared Sensors



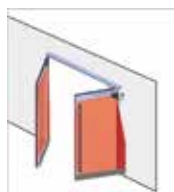
EN16005

Model	Description	Item code
XPB34-1 ON	L 340 mm (1piece)	105094
XPB70-1 ON	L 700 mm (1piece)	105095
XPB90-2 ON	L 900 mm (1 piece)	105096
XPB34-1 ON	L 340 mm - kit supply (starting from 6 pcs)	105094
XPB70-1 ON	L 700 mm - kit supply (starting from 6 pcs)	105095
XPB90-2 ON	L 900 mm - kit supply (starting from 6 pcs)	105096

TECHNICAL SPECIFICATIONS

Model	XPB-ON
Technology	Active infrared with removal of background analysis
Detection area	400 mm (L) x 70 mm (D)
Number of spots	4
Installation height	from 1.1 m to 3.5 m (according to ground reflectivity)
Detection mode	Presence (and movement)
Contact maintenance time	Infinite
Power supply voltage	12-24V~ (+/- 10%) - relay output; 12-30V $\overline{\text{---}}$ (-5% / +10%) - transistor output

Laser sensor



Model	Description	Item code
XPB-SCAN RH	Laser sensor for swing doors right installation	105044
XPB-SCAN LH	Laser sensor for swing doors left installation	105046
XPB-SCAN RH+LF	Couple of laser sensor for swing doors right and left installation	105047

TECHNICAL SPECIFICATIONS

Model	XPB SCAN
Power supply voltage	12 V - 24 +/-15%
Max. power	< 2 W
Dimensions (LxDxH)	142 mm (L) × 85 mm (A) × 23 mm (P) (mounting frame + 7 mm)
Max detection distance	4 m (diag) with 2% of reflectivity (ex.: a l = 1,5 m -> max. H = 3,7 m)
Detection area	Leaf protection: 90° / Hinge area protection: 16°
Tilt angle	+2° a + 10° (without mounting bracket)
Angular laser resolution	Leaf protection: 1,3° / Hinge area protection: 0,2°
Laser emission features	Wavelength 905 nm; max. pulse output 25 W; Class 1
Operating ambient temperature	-30°C to +60°C energized; 0-95 % no condensation
Protection class	IP54
Min. detection speed	2°/sec
Type of cover material	PC/ASA - black
Detection mode	Presence
Response time	Leaf protection: max 50 ms / Hinge area protection: max 90 ms
Technology	LASER-scanner, measurement of flight time
Output type	2 ELECTRONIC RELAYS (galvanised insulation - no polarity) Max. output current: 100 mA Contacts voltage: 42V _logo_DC
Certifications	EMC 2014/30/EU; LVD 2014/35/EU; MD 2006/42/EC; RoHS2 2011/65/EU; EN 12978; EN ISO 13849-1 PI "d"/ CAT2; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody A); EN 16005 Chapter 4.6.8 (testbody A)

KP EVO

Function Keypad



- Optional.
- The KP EVO programming keyboard is designed to be used with the programming display.

Model	Description	Item code
KP EVO	Function Keypad	790022



TECHNICAL SPECIFICATIONS

Model	KP EVO
	Manual (only with key or security code EN16005) Night (only with key or security code EN16005)
Operative functions	Automatic Monodirectional Partial monodirectional Partial opening Open
Selectable functions	Setup, Reset, keyboard inhibition
Operating function selection	Through buttons with display indication of the selected function. Possibility to lock the keyboard through bridge or key combination
Main programming functions	User and installer login password Opening and closing speed adjustment Force adjustment in opening and closing Anti-crushing adjustment Pause time adjustment Energy Saving function Self-diagnosis Weekly calendar management Battery kit and motor lock management I/O Programming Maintenance cycles alert Performed cycle number displaying
Programming	Complete with access with PROGRAMMER code and basic with USER code

LK EVO

Function selector



- Supplied as an accessory, it enables access to the main automatic functions and indicates when it is on through LED lights

Model	Description	Item code
LK EVO	Function selector	790024



TECHNICAL SPECIFICATIONS

Model	LK EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Through buttons with LED indication of the selected function
Selectable functions	Keypad inhibition, setup, reset (also via jumper)
Diagnostics	Through a combination of flashing LEDs

KS EVO

Key function selector



- Supplied as an accessory, it enables access to the main automatic functions and allows modification of these using the supplied key
- No.2 keys standard supplied

Model	Description	Item code
KS EVO	Key function selector	790942



TECHNICAL SPECIFICATIONS

Model	KS EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Using a key with LED indication of the selected function
Diagnostics	Through a combination of flashing LEDs

ACTIVATION ARMS



Articulated push arm
(max. post depth 250 mm)

390039



Short sliding block arm
(length of leaf max. 800 mm)

390041



Standard sliding block arm
(leaf length more than 800 mm)

390040



Operator shaft extension H=50 mm

390042



Operator shaft extension H=80 mm

390043

ACCESSORIES



Cover in natural aluminium
(length 3 m)

727311



Cover in anodised aluminium
(length 3 m)

727312



Pair of side panels with aluminium cover

727931



T20 E Recessed installation[♦]

401012



T20 I Recessed installation[♦]

401014



European cylinder lock (T20 - T21 - XK21) with customised key from 1 to 36

712052-87

>>



XMS touch button

105084



XMS-VB wall mounting support
(only for XMS)

105085



Plastic elbow button
(dim. 95 x 250 mm)

401003



Aluminium elbow button
(dim. 95 x 250 mm)

401004

NOTE

- ♦ Note: photocells are auxiliary safety devices. For the correct use in countries where Standard EN 16005 is applied, refer to the Standard itself.
- ♦ Provided without lock

AUTOMATED SYSTEMS FOR SWING DOORS

A951

AUTOMATED SYSTEMS FOR SWING DOORS

A951

A951

Automation for internal doors



Leaf length

from 700 to 1100

Max. leaf weight

100 Kg

- A951 operator opens and closes the internal door silently and smoothly
- The housing cover is in anodized extruded aluminium
- Manufactured in compliance with the new European safety standards EN16005; speed and forced are programmed depending on door dimensions.
- Thanks to the accurate selection of mechanical and electronic components, the A951 automated system can silently drive leaves weighing 100 kg and 1100-mm wide on continuous duty ensuring the absolute operating safety at any time



EN16005



TECHNICAL SPECIFICATIONS

Model	A951
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	100 W
standby power	5W
Use frequency	100%
Maximum torque [to the output shaft]	25Nm
Motor	Motor powered at 24V ---
Max. accessories load	1A - 24V ---
Electric lock power supply voltage	(N.O./N.C.) 24 V --- / 500 mA max.
Dimensions (LxHxD)	575x60x70 mm
Weight	7 Kg
Operation in case of power cut	Manual push/pull opening
Max. leaf opening angle	100° ÷ 125°
Opening leaf time	4 - 10 s (adjustable)
Closing leaf time	4 - 10 s (adjustable)
Partial opening adjustment	Standard (adjustable)
Pause time	0 - 30 s
Night pause time	0 ÷ 90 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN16005; EN61000-6-2; EN61000-6-3 ; EN13849

FAMILY MODELS

Model	Description	Passage opening (mm)	Max. leaf weight with articulated arm (kg)	Max. leaf weight with sliding arm (kg)	Item code
A951	With electronic control unit function selector and anodised aluminium cover	700 ÷ 1100	100	100	105951
Arms	Sliding arm				390167
	Articulated arm				390169

THE COMPLETE A951 AUTOMATED SYSTEM CONSISTS OF THE FOLLOWING COMPONENTS:

A951 CONTROL UNIT

- Built-in microprocessor control unit with self-diagnosis and continuous monitoring of all door functions
- Anti-crushing safety device active both in closing and in opening
- Integrated functions selector with the following operating logics: AUTOMATIC - MANUAL/NIGHT - OPEN
- "INTRUSION" Function, the door opposes the manual opening attempt
- Selectable 'PUSH and GO' function
- KP EVO, LK EVO and KS EVO functions keyboard support
- Using the KP EVO or LK EVO keypad the following functions are available:
 - opening and closing speed adjustments;
 - Adjustment of opening and closing speed
 - Anti-crushing safety device adjustment
 - pause time adjustment;
 - Self-diagnosis;
 - weekly calendar;
 - Battery kit and lock management;
 - I/O programming;
 - Maintenance cycle warning;
 - Performed cycle number displaying;
 - MASTER-SLAVE version for double doors (with communication board);
 - INTERLOCK function (with communication board);
 - INTERCOM function (with communication board);
- Firmware upgrade and download/upload (configurations, timer and log) through USB key
- Use of FAAC transmitters (with communication board)
- Use of BUS-2EASY accessories (with communication board)

DRIVE UNIT

COMPLETE WITH:

- FAAC electromechanical automated system for swing doors working on direct current
- The housing cover is in anodized aluminium
- Articulated and sliding arms with anodized aluminium cover (to be ordered separately)
- Over the transom installation with inwards and outwards opening
- Manual operation in case of an electrical power cut
- Optional battery

XPB-ON



Infrared Sensors



EN16005

Model	Description	Item code
XPB34-1 ON	L 340 mm (1piece)	105094
XPB70-1 ON	L 700 mm (1piece)	105095
XPB90-2 ON	L 900 mm (1 piece)	105096
XPB34-1 ON	L 340 mm - kit supply (starting from 6 pcs)	105094
XPB70-1 ON	L 700 mm - kit supply (starting from 6 pcs)	105095
XPB90-2 ON	L 900 mm - kit supply (starting from 6 pcs)	105096

TECHNICAL SPECIFICATIONS

Model	XPB-ON
Technology	Active infrared with removal of background analysis
Detection area	400 mm (L) x 70 mm (D)
Number of spots	4
Installation height	from 1.1 m to 3.5 m (according to ground reflectivity)
Detection mode	Presence (and movement)
Contact maintenance time	Infinite
Power supply voltage	12-24V~ (+/- 10%) - relay output; 12-30V $\overline{\text{---}}$ (-5% / +10%) - transistor output

Laser sensor



EN16005



Model	Description	Item code
XPB-SCAN RH	Laser sensor for swing doors right installation	105044
XPB-SCAN LH	Laser sensor for swing doors left installation	105046
XPB-SCAN RH+LF	Couple of laser sensor for swing doors right and left installation	105047

TECHNICAL SPECIFICATIONS

Model	XPB SCAN
Power supply voltage	12 V - 24 \pm +/-15%
Max. power	< 2 W
Dimensions (LxDxH)	142 mm (L) × 85 mm (A) × 23 mm (P) (mounting frame + 7 mm)
Max detection distance	4 m (diag) with 2% of reflectivity (ex.: a l = 1,5 m -> max. H = 3,7 m)
Detection area	Leaf protection: 90° / Hinge area protection: 16°
Tilt angle	+2° a + 10° (without mounting bracket)
Angular laser resolution	Leaf protection: 1,3° / Hinge area protection: 0,2°
Laser emission features	Wavelength 905 nm; max. pulse output 25 W; Class 1
Operating ambient temperature	-30°C to +60°C energized; 0-95 % no condensation
Protection class	IP54
Min. detection speed	2°/sec
Type of cover material	PC/ASA - black
Detection mode	Presence
Response time	Leaf protection: max 50 ms / Hinge area protection: max 90 ms
Technology	LASER-scanner, measurement of flight time
Output type	2 ELECTRONIC RELAYS (galvanised insulation - no polarity) Max. output current: 100 mA Contacts voltage: 42V \sim /__logo__DC
Certifications	EMC 2014/30/EU; LVD 2014/35/EU; MD 2006/42/EC; RoHS2 2011/65/EU; EN 12978; EN ISO 13849-1 PI "d"/ CAT2; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody A); EN 16005 Chapter 4.6.8 (testbody A)

KP EVO

Function Keypad



- Optional.
- The KP EVO programming keyboard is designed to be used with the programming display.

Model	Description	Item code
KP EVO	Function Keypad	790022



TECHNICAL SPECIFICATIONS

Model	KP EVO
	Manual (only with key or security code EN16005) Night (only with key or security code EN16005)
Operative functions	Automatic Monodirectional Partial monodirectional Partial opening Open
Selectable functions	Setup, Reset, keyboard inhibition
Operating function selection	Through buttons with display indication of the selected function. Possibility to lock the keyboard through bridge or key combination
Main programming functions	User and installer login password Opening and closing speed adjustment Force adjustment in opening and closing Anti-crushing adjustment Pause time adjustment Energy Saving function Self-diagnosis Weekly calendar management Battery kit and motor lock management I/O Programming Maintenance cycles alert Performed cycle number displaying
Programming	Complete with access with PROGRAMMER code and basic with USER code

LK EVO

Function selector



- Supplied as an accessory, it enables access to the main automatic functions and indicates when it is on through LED lights

Model	Description	Item code
LK EVO	Function selector	790024



TECHNICAL SPECIFICATIONS

Model	LK EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Through buttons with LED indication of the selected function
Selectable functions	Keypad inhibition, setup, reset (also via jumper)
Diagnostics	Through a combination of flashing LEDs

KS EVO

Key function selector



- Supplied as an accessory, it enables access to the main automatic functions and allows modification of these using the supplied key
- No.2 keys standard supplied

Model	Description	Item code
KS EVO	Key function selector	790942



TECHNICAL SPECIFICATIONS

Model	KS EVO
Operative functions	Manual, Automatic, Night, Open, One-directional, Partial opening
Operating function selection	Using a key with LED indication of the selected function
Diagnostics	Through a combination of flashing LEDs

ACTIVATION ARMS



Sliding arm

390167



Articulated arm

390169



Operator shaft extension

390117

FUNCTION KEYPADS



KP EVO Function Keypad

790022



LK EVO Function Selector

790024



Key function selector KS EVO

790942

ACCESSORIES



XBFRM1 one-directional microwave radar

105091



MINISWITCH GLS photocell[♦]

105209



Pair of recessed front panels for MINISWITCH GLS in black plastic

105211



T20 E Recessed installation[♦]

401012



T20 I Recessed installation[♦]

401014



European cylinder lock (T20 - T21 - XK21) with customised key from 1 to 36

712052-87

>>



XMS touch button

105084



XMS-VB wall mounting support (only for XMS)

105085



Plastic elbow button (dim. 95 x 250 mm)

401003



Aluminium elbow button (dim. 95 x 250 mm)

401004



Back-up battery

390116



Communications board

390166

NOTE

- ♦ Note: photocells are auxiliary safety devices. For the correct use in countries where Standard EN 16005 is applied, refer to the Standard itself.
- ♦ Provided without lock

KIT SOLUTIONS FOR SLIDING DOOR AUTOMATED SYSTEMS

A1000

List of components necessary for configuring a sliding automated system

1-LEAF A1000 MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised aluminium	Supporting profile - 4.3 m bar	105426	Depends upon head section width
	1		or 6.1 m bar	105427	
	1		1st leaf basic kit	10505701	
	1		Leaf connection profile	105432	
	see instructions		Toothed belt	105163	per metre
	see instructions		Seal for routing of cables on the supporting profile	105433	per metre

2-LEAVES A1000 MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised aluminium	Supporting profile - 4.3 m bar	105426	Depends upon head section width
	1		or 6.1 m bar	105427	
	1		1st leaf basic kit	10505701	
	1		2nd leaf basic kit	105122	
	1		Leaf connection profile	105432	
	see instructions		Toothed belt	105163	per metre
see instructions		Seal for routing of cables on the supporting profile	105433	per metre	

List of components necessary for configuring the cover

COVER FOR A1000 MODELS	Q.ty	Finish	Description	Item code	Notes
	1		Cover profile - 4.3 m bar	105429	Depends upon head section width
	1		or 6.1 m bar	105431	
	1	Natural aluminium	Accessories securing the cover	105123	
	1		Pair of side panels	105434	
	1	Anodised aluminium	Cover profile - 4.3 m bar	105428	Depends upon head section width
	1		or 6.1 m bar	105430	
1		Accessories securing the cover	105123		
1		Pair of side panels	105434		

COMPONENTS FOR AUTOMATED SYSTEMS



A1000 Supporting Profile
(4.3 m bar)
(4 pcs. pack)

105426



A1000 Supporting Profile
(6.1 m bar)
(4 pcs. pack)

105427



A1000 1st leaf basic kit
(IT-EN-NL)
(4 pcs. pack)

10505701



Seal for routing of cables on the supporting profile
(150 m pack)

105433



Toothed belt
(50 m pack)

105163



Leaf connection profile
(3m bar)
(4 pcs. pack)

105432

>>

COMPONENTS FOR COVERS



A1000 2nd leaf kit
(4 pcs. pack)

105122



Natural aluminium cover profile
(4.3 m bar)
(4 pcs. pack)

105429



Natural aluminium cover profile
(6.1 m bar)
(4 pcs. pack)

105431



Anodised aluminium cover profile (4.3 m bar)
(4 pcs. pack)

105428

>>

ACCESSORIES FOR AUTOMATED SYSTEM



Anodised aluminium cover profile
(6.1 m bar)
(4 pcs. pack)

105430



Accessories securing the cover
(4 pcs. pack)

105123



Pair of side panels
(4 pcs. pack)

105434



XB LOCK Bi-stable motor lock A1000 w/ knob
(4 pcs. pack)

105124



Motor block and leaf position supervision
(4 pcs. pack)

105125



Release cable and sheath
(only for external installation)

105326

>>

ACCESSORIES FOR AIR SEALING



Emergency batteries E1400RD/E1SL
(4 pcs. pack)

105504



XFA button photocell
(10 pcs. pack)

105127



Lower guide profile brush H=25
(3m bar) (4 pcs. pack)

105345



Lower guide profile brush H=19
(3m bar) (4 pcs. pack)

105346



Natural aluminium closing profile
(3m bar) (4 pcs. pack)

105319

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

It is understood that the orders must comply with the quantities indicated in the packs and orders of individual pieces will not be accepted.

◆ This item code includes the instructions in Italian, English and Dutch language

For instructions in French, Spanish and German language order item code 10505702

>>



Anodised aluminium closing profile (3m bar) (4 pcs. pack)

105320

ACCESSORIES FOR FRAMED LEAF



Lower guide profile (3m bar) (4 pcs. pack)

105380



Swivel sliding block (the lower guide profile is necessary) (8 pcs. pack)

105078



Pair of lower sliding blocks with bracket (the lower guide profile is necessary) (4 pcs)

105487

>>



Lower guide profile brush H=25 (3m bar) (4 pcs. pack)

105345



Lower guide profile brush H=19 (3m bar) (4 pcs. pack)

105346

ACCESSORIES FOR CRYSTAL LEAVES



Side profile (8 pcs.) Clamping profile (4 pcs. pack) glass 12 mm 3 m bars

105412



Side profile (8 pcs.) Clamping profile (4 pcs. pack) glass 10 mm 3 m bars

105402



Rubber seal (25 m pack)

105403

>>



Fixing plate (24 pcs. pack)

105404



Terminal side panel (16 pcs. pack)

105405



Pair of lower sliding blocks (length 120 mm each) glass 10 mm (10 pcs. pack)

105406



Pair of lower sliding blocks (length 120 mm each) glass 12 mm (10 pcs. pack)

105413

COMPONENTS FOR PLIERS FOR 2 CRYSTAL LEAVES WITH LENGTH 1.5 M

Q.ty	Description	Item code
2	Side profile	105402
1	Clamping profile	
6 m	Rubber seal	105403
6	Fixing plate	105404
4	Terminal side panel	105405

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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FUNCTION KEYPADS/SELECTORS



SDK EVO function keypad (optional)
(starting from 4pcs.)

790019



LK EVO Function Selector
(4 pcs. pack)

790024



Key function selector KS EVO
(starting from 4 pcs)

790942

NOTE

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KIT SOLUTIONS FOR SLIDING DOOR AUTOMATED SYSTEMS

A1400 AIR

List of components necessary for configuring a sliding automated system

MODELLO A1400 AIR 1 LEAF	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Supporting profile - 4.3 m bar	105512	Depends upon head section length
	1		or 6.1 m bar	105510	
	1		1st leaf basic kit	10503701	
	1		Low leaf connection profile (3m bar)	105507	
	see instructions		Seal for routing of cables on the supporting profile	105433	per metre
	see instructions		Toothed belt 12 mm	105298	per metre

MODELLO A1400 AIR 2 LEAVES	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Supporting profile - 4.3 m bar	105512	Depends upon head section length
	1		or 6.1 m bar	105510	
	1		1st leaf basic kit	10503701	
	1		2nd leaf basic kit	105499	
	1		Low leaf connection profile (3m bar)	105507	
	see instructions		Toothed belt 12 mm	105298	Per metre
see instructions		Seal for routing of cables on the supporting profile	105433	Per metre	

A1400 AIR A T MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Self-supporting profile - 6.1 m bar	105515	
	1		Accessories securing the self-supporting profiles	105331	
	1		Pair of brackets for A1400 AIR T self-supporting Serie	105029	
1		Brush H=25 - 3 m bar	105345		

Items to be added to obtain the self-supporting version

NB: TO GET THE DM (DOUBLE MOTOR) VERSION ADD ARTICLE No.105036

COMPONENTS FOR AUTOMATED SYSTEMS



A1400 AIR supporting profile
(6.1 m bar)
(4 pcs. pack)

105510



A1400 AIR supporting profile
(4.3 m bar)
(4 pcs. pack)

105512



A1400 AIR 1st leaf
basic kit (4pcs pack)♦

10503701



Second motor kit A1400
AIR DM

105036



A1400 AIR 2nd leaf kit
(4 pcs. pack)

105499



Leaf connection profile
(3m bar)
(4 pcs. pack)

105507

>>



Toothed belt 12 mm
(55 m pack)

105298



Seal for routing
of cables on the
supporting profile
(150 m pack)

105433



Anodised aluminium
self-supporting profile
(6.1 m bar) (4 pcs. pack)

105515



A1400 AIR - A Pair of
brackets for side fixing
(4 pcs. pack)

105516



Accessories securing
the self-supporting
profile
(4 pcs. pack)

105331



Lower guide profile
brush H=25
(3m bar) (4 pcs. pack)

105345

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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♦ This item code includes the instructions in Italian, English and Dutch language

For instructions in French, German and Spanish language order item code 10503702

A1400 AIR - A1400 AIR A

List of components necessary for configuring the cover

A1400 AIR COVER - HEIGHT 100 MM	Q.ty	Finish	Description	Item code	Notes
	1			Cover profile - 6.1 m bar	105431
1		Natural aluminium	Accessories securing the cover	105028	
1			Pair of lateral brackets A1400 AIR T	105030	
1			Cover profile - 6.1 m bar	105430	
1		Anodised aluminium	Accessories securing the cover	105028	
1			Pair of lateral brackets A1400 AIR T	105030	

A1400 AIR COVER - HEIGHT 140 MM	Q.ty	Finish	Description	Item code	Notes
	1			Cover profile - 4.3 m bar	105513
1			or 6.1 m bar	105514	
1		Natural aluminium	Carriage spacer A1400 AIR	105508	
1			Accessories securing the cover	105501	
1			Pair of side panels	105506	
1			Cover profile - 4.3 m bar	105511	Depends upon head section width
1			or 6.1 m bar	105509	
1		Anodised aluminium	Carriage spacer A1400 AIR	105508	
1			Accessories securing the cover	105501	
1			Pair of side panels	105506	

COMPONENTS FOR COVERS - HEIGHT 100 MM



Natural aluminium
cover profile
(4.3 m bar)
(4 pcs. pack)

105429



Natural aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105431



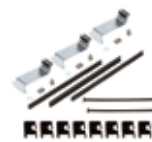
Anodised aluminium
cover profile (4.3 m bar)
(4 pcs. pack)

105428



Anodised aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105430



A1400 AIR T
accessories securing
covering carter
(4 pcs. pack)

105028



Pair of side panels
(4 pcs. pack)

105505

COMPONENTS FOR COVERS - HEIGHT 140 MM



Natural aluminium
cover profile
(4.3 m bar)
(4 pcs. pack)

105513



Natural aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105514



Anodised aluminium
cover profile
(4.3 m bar)
(4 pcs. pack)

105511



Anodised aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105509



Carriage spacer
(16 pcs. pack)

105508



Accessories securing
the cover
(4 pcs. pack)

105501

>>



Pair of side panels
(4 pcs. pack)

105506

NOTE

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A1400 AIR T

A1400 AIR A T

List of components necessary for configuring a sliding automated system

	Q.ty	Finish	Description	Item code	Notes
MODEL A1400 AIR T2	1	Natural aluminium	A1400 AIR-T 2 supporting profile - 6,1 m bar	105020	
	1	Natural aluminium	Telescopic profile - 6.1 m bar	105021	
	1		1st leaf basic kit A1400 AIR T	10503901	
	1		Leaf connection profile	105507	
	see instructions		Toothed belt 12 mm	105298	Per metre
	1		T -right leaf carriage unit	105024	
	1		or left leaf carriage unit	105025	
	see instructions		Steel cable Ø 3 mm	105027	
	see instructions		Seal for routing of cables on the supporting profile	105433	Per metre

	Q.ty	Finish	Description	Item code	Notes
MODEL A1400 AIR T4	1	Natural aluminium	A1400 AIR-T 2 supporting profile - 6,1 m bar	105020	
	1	Natural aluminium	Telescopic profile - 6.1 m bar	105021	
	1		1st leaf basic kit A1400 AIR T	10503901	
	1		Leaf connection profile	105507	
	see instructions		Toothed belt 12 mm	105298	Per metre
	1		T -right leaf carriage unit	105024	
	1		or left leaf carriage unit	105025	
	1		2nd leaf basic kit A1400 AIR T	105023	
	see instructions		Steel cable Ø 3 mm	105027	
see instructions		Seal for routing of cables on the supporting profile	105433	Per metre	

	Q.ty	Finish	Description	Item code	Notes
A1400 AIR A T MODEL	1	Anodised Aluminium	Self-supporting profile - 6.1 m bar	105515	
	1		Accessories securing the self-supporting profiles	105331	
	1		Pair of brackets for A1400 AIR T self-supporting Serie	105029	
	1		Brush H=25 - 3 m bar	105345	

Items to be added to obtain the self-supporting version

COMPONENTS FOR AUTOMATED SYSTEMS



A1400 AIR-T supporting profile
(6.1 m bar)
(4 pcs. pack)

105020



Natural aluminium telescopic profile
(6.1 m bar)
(4 pcs. pack)

105021



1st leaf basic kit A1400 AIR T♦

10503901



Leaf connection profile
(3m bar)
(4 pcs. pack)

105507



A1400 AIR-T left leaf carriage unit
(4 pcs. pack)

105025



A1400 AIR-T right leaf carriage unit
(4 pcs. pack)

105024

>>



Steel cable Ø 3 mm A1400 AIR-T
(30 m pack)

105027



Toothed belt 12 mm
(55 m pack)

105298



Seal for routing of cables on the supporting profile
(150 m pack)

105433



2nd leaf kit A1400 AIR-T
(4 pcs. pack)

105023

COMPONENTS FOR SELF-SUPPORTING PROFILES



Anodised aluminium self-supporting profile
(6.1 m bar) (4 pcs. pack)

105515



Pair of self-supporting brackets for lateral fixing A1400 T
(4 pcs. pack)

105029



Accessories securing the self-supporting profile
(4 pcs. pack)

105331



Lower guide profile brush H=25
(3m bar) (4 pcs. pack)

105345

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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♦ This item code includes the instructions in Italian, English and Dutch language
For instructions in French, Spanish and German language order item code 10503902

A1400 AIR T

A1400 AIR A T

List of components necessary for configuring the cover

	Q.ty	Finish	Description	Item code	Notes
A1400 AIR COVER - HEIGHT 100 MM	1		Cover profile - 6.1 m bar	105431	
	1	Natural aluminium	Accessories securing the cover	105028	
	1		Pair of lateral brackets A1400 AIR T	105030	
	1		Cover profile - 6.1 m bar	105430	
	1	Anodised aluminium	Accessories securing the cover	105028	
	1		Pair of lateral brackets A1400 AIR T	105030	

COMPONENTS FOR COVERS - HEIGHT 100 MM



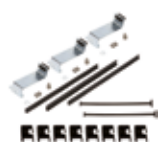
Natural aluminium cover profile (6.1 m bar) (4 pcs. pack)

105431



Anodised aluminium cover profile (6.1 m bar) (4 pcs. pack)

105430



A1400 AIR T accessories securing covering carter (4 pcs. pack)

105028



Pair of side panels A1400 AIR-T (4 pcs. pack)

105030

Common accessories

A1400 AIR Serie

ACCESSORIES FOR AUTOMATED SYSTEM



XB LOCK Bi-stable motor lock A1400 w/ knob (4 pcs. pack)

105502



KIT XM LOCK Monostable motor lock A1400 (4 pcs. pack)

105056



Motor block and leaf position supervision (4 pcs. pack)

105125



Release cable and sheath (only for external installation)

105326



Emergency battery with charge control board (4 pcs. pack)

105504



XFA button photocell

105127

ACCESSORIES FOR AIR SEALING



Natural aluminium closing profile (3m bar) (4 pcs. pack)

105319



Anodised aluminium closing profile (3m bar) (4 pcs. pack)

105320



Lower guide profile brush H=19 (3m bar) (4 pcs. pack)

105346



Lower guide profile (3m bar) (4 pcs. pack)

105380



Lower guide profile brush H=19 (3m bar) (4 pcs. pack)

105346



Lower guide profile brush H=25 (3m bar) (4 pcs. pack)

105345

>>

FUNCTION KEYPADS/SELECTORS



Swivel sliding block (the lower guide profile is necessary) (8 pcs. pack)

105078



Pair of lower sliding blocks with bracket (the lower guide profile is necessary) (4 pcs)

105487



SDK EVO function keypad (optional) (starting from 4pcs.)

790019



LK EVO Function Selector (4 pcs. pack)

790024



Key function selector KS EVO (starting from 4 pcs)

790942

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NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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ACCESSORIES FOR CRYSTAL LEAVES



Side profile (8 pcs.)
Clamping profile (4 pcs. pack) glass 12 mm
3 m bars

105412



Side profile (8 pcs.)
Clamping profile (4 pcs. pack) glass 10 mm
3 m bars

105402



Rubber seal
(25 m pack)

105403



Fixing plate
(24 pcs. pack)

105404



Terminal side panel
(16 pcs. pack)

105405



Pair of lower sliding blocks
(length 120 mm each)
glass 10 mm
(10 pcs. pack)

105406

>>



Pair of lower sliding blocks
(length 120 mm each)
glass 12 mm
(10 pcs. pack)

105413

COMPONENTS FOR PLIERS FOR 2 CRYSTAL LEAVES WITH LENGTH 1.5 M

Q.ty	Description	Item code
2	Side profile	105402
1	Clamping profile	
6 m	Rubber seal	105403
6	Fixing plate	105404
4	Terminal side panel	105405

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

It is understood that the orders must comply with the quantities indicated in the packs and orders of individual pieces will not be accepted.

KIT SOLUTIONS FOR REDUNDANT SLIDING DOORS ON ESCAPE ROUTES

A1400 AIR RD

A1400 AIR RD A1400 AIR RD A

List of components necessary for configuring a sliding automated system

1-LEAF A1400 AIR RD MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Supporting profile - 4.3 m	105512	Depends upon head section length
	1		bar or 6.1 m bar	105510	
	1		1st leaf basic kit	10514001	
	1		Low leaf connection profile	105507	
	see instructions		Seal for routing of cables on the supporting profile	105433	per metre
	see instructions		Toothed belt	105298	per metre

2-LEAF A1400 AIR RD MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Supporting profile - 4.3 m	105512	Depends upon head section length
	1		bar or 6.1 m bar	105510	
	1		1st leaf basic kit	10514001	
	1		2nd leaf basic kit	105499	
	1		Low leaf connection profile	105507	
	see instructions		Toothed belt	105298	Per metre
see instructions		Seal for routing of cables on the supporting profile	105433	Per metre	

A1400 AIR RD A MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Self-supporting profile - 6.1 m bar	105515	
	1		Accessories securing the self-supporting profiles	105331	
	1		Pair of brackets for side fixing	105516	
1		Brush H=25 - 3 m bar	105345		

Items to be added to obtain the self-supporting version

COMPONENTS FOR AUTOMATED SYSTEMS



A1400 AIR supporting profile
(6.1 m bar)
(4 pcs. pack)

105510



A1400 AIR supporting profile
(4.3 m bar)
(4 pcs. pack)

105512



A1400 AIR RD 1st leaf
basic kit♦

10514001



A1400 AIR RD 1st leaf
basic kit (4pcs pack)♦

10514001



A1400 AIR 2nd leaf kit
(4 pcs. pack)

105499



Leaf connection profile
(3m bar)
(4 pcs. pack)

105507

>>



Toothed belt 12 mm
(55 m pack)

105298



Seal for routing
of cables on the
supporting profile
(150 m pack)

105433



Anodised aluminium
self-supporting profile
(6.1 m bar) (4 pcs. pack)

105515



Accessories securing
the self-supporting
profile
(4 pcs. pack)

105331



A1400 AIR - A Pair of
brackets for side fixing
(4 pcs. pack)

105516



Lower guide profile
brush H=25
(3m bar) (4 pcs. pack)

105345

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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♦ This item code includes the instructions in Italian, English and Dutch language

For instructions in French, Spanish and German language order item code 10514002

A1400 AIR RD

List of components necessary for configuring the cover

COVER FOR A1400 AIR RD MODELS - HEIGHT 100 MM	Q.ty	Finish	Description	Item code	Notes
	1	Natural aluminium	Cover profile - 4.3 m bar	105429	Depends upon head section width
	1		or 6.1 m bar	105431	
	1		Accessories securing the cover	105028	
	1	Anodised aluminium	Pair of side panels	105505	
	1		Cover profile - 4.3 m bar	105428	Depends upon head section width
	1		or 6.1 m bar	105430	
	1		Accessories securing the cover	105028	
	1		Pair of side panels	105505	

COVER FOR A1400 AIR RD MODELS - HEIGHT 140 MM	Q.ty	Finish	Description	Item code	Notes
	1	Natural aluminium	Cover profile - 4.3 m bar	105513	Depends upon head section width
	1		or 6.1 m bar	105514	
	1		Carriage spacer	105508	
	1		Accessories securing the cover	105501	
	1		Pair of side panels	105506	
	1	Anodised aluminium	Cover profile - 4.3 m bar	105511	Depends upon head section width
	1		or 6.1 m bar	105509	
	1		Carriage spacer	105508	
	1		Accessories securing the cover	105501	
1	Pair of side panels		105506		

COMPONENTS FOR COVERS - HEIGHT 100 MM



Natural aluminium cover profile (4.3 m bar) (4 pcs. pack)

105429



Natural aluminium cover profile (6.1 m bar) (4 pcs. pack)

105431



Anodised aluminium cover profile (4.3 m bar) (4 pcs. pack)

105428



Anodised aluminium cover profile (6.1 m bar) (4 pcs. pack)

105430



A1400 AIR T accessories securing covering carter (4 pcs. pack)

105028



Pair of side panels (4 pcs. pack)

105505

COMPONENTS FOR COVERS - HEIGHT 140 MM



Natural aluminium cover profile (4.3 m bar) (4 pcs. pack)

105513



Natural aluminium cover profile (6.1 m bar) (4 pcs. pack)

105514



Anodised aluminium cover profile (4.3 m bar) (4 pcs. pack)

105511



Anodised aluminium cover profile (6.1 m bar) (4 pcs. pack)

105509



Carriage spacer (16 pcs. pack)

105508



Accessories securing the cover (4 pcs. pack)

105501

>>



Pair of side panels (4 pcs. pack)

105506

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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A1400 AIR RD T A1400 AIR RD A T

List of components necessary for configuring a sliding automated system

A1400 AIR RD T2 MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Natural aluminium	A1400 AIR-T 2 supporting profile - 6,1 m bar	105020	
	1	Natural aluminium	Telescopic profile - 6.1 m bar	105021	
	1		A1400 AIR RD T 1st leaf basic kit	10503801	
	1		Leaf connection profile	105507	
	see instructions		Toothed belt 12 mm	105298	Per metre
	1		A1400 AIR-T right leaf carriage unit	105024	
	1		or A1400 AIR-T left leaf carriage unit	105025	
	see instructions		Steel cable Ø 3 mm	105027	
see instructions		Seal for routing of cables on the supporting profile	105433	Per metre	

A1400 AIR RD T4 MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Natural aluminium	A1400 AIR-T 2 supporting profile - 6,1 m bar	105020	
	1	Natural aluminium	Telescopic profile - 6.1 m bar	105021	
	1		A1400 AIR RD T 1st leaf basic kit	10503801	
	1		Leaf connection profile	105507	
	see instructions		Toothed belt 12 mm	105298	Per metre
	1		T -right leaf carriage unit	105024	
	1		or left leaf carriage unit	105025	
	1		2nd leaf basic kit A1400 AIR T	105023	
see instructions		Steel cable Ø 3 mm	105027		
see instructions		Seal for routing of cables on the supporting profile	105433	Per metre	

A1400 AIR RD A T MODEL	Q.ty	Finish	Description	Item code	Notes
	1	Anodised Aluminium	Self-supporting profile - 6.1 m bar	105515	
	1		Accessories securing the self-supporting profiles	105331	
	1		Pair of brackets for A1400 AIR T self-supporting Serie	105029	
1		Brush H=25 - 3 m bar	105345		

Items to be added to obtain the self-supporting version

COMPONENTS FOR AUTOMATED SYSTEMS



A1400 AIR-T supporting profile
(6.1 m bar)
(4 pcs. pack)

105020



A1400 AIR RD-T 1st leaf basic kit (1pc price)♦

10503801



A1400 AIR RD-T 1st leaf basic kit (starting from 4pcs price)♦

10503801



Natural aluminium telescopic profile
(6.1 m bar)
(4 pcs. pack)

105021



Leaf connection profile
(3m bar)
(4 pcs. pack)

105507



Toothed belt 12 mm
(55 m pack)

105298

>>



A1400 AIR-T right leaf carriage unit
(4 pcs. pack)

105024



A1400 AIR-T left leaf carriage unit
(4 pcs. pack)

105025



Steel cable Ø 3 mm
A140 AIR-T
(30 m pack)

105027



Seal for routing of cables on the supporting profile
(150 m pack)

105433



2nd leaf kit A1400 AIR-T
(4 pcs. pack)

105023

COMPONENTS FOR COVERS, HEIGHT 100 MM



Natural aluminium cover profile
(6.1 m bar)
(4 pcs. pack)

105431



Anodised aluminium cover profile
(6.1 m bar)
(4 pcs. pack)

105430



A1400 AIR T accessories securing covering carter
(4 pcs. pack)

105028



Pair of side panels A1400 AIR-T
(4 pcs. pack)

105030

NOTE

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♦ This item code includes the instructions in Italian, English and Dutch language

For instructions in French, German and Spanish language order item code 10503802

List of components necessary for configuring the cover

	Q.ty	Finish	Description	Item code	Notes
COVER FOR A1400 AIR RD T MODELS - HEIGHT 100 MM	1		Cover profile - 6.1 m bar	105431	
	1	Natural aluminium	Accessories securing the cover	105028	
	1		Pair of side panels AIR - T	105030	
	1		Cover profile - 6.1 m bar	105430	
	1	Anodised aluminium	Accessories securing the cover	105028	
	1		Pair of side panels AIR - T	105030	

COMPONENTS FOR COVERS, HEIGHT 100 MM



Natural aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105431



Anodised aluminium
cover profile
(6.1 m bar)
(4 pcs. pack)

105430



A1400 AIR T
accessories securing
covering carter
(4 pcs. pack)

105028



Pair of side panels
A1400 AIR-T
(4 pcs. pack)

105030

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

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ACCESSORIES FOR AUTOMATED SYSTEM



XB LOCK Bi-stable motor lock A1400 w/ knob
(4 pcs. pack)

105502



KIT XM LOCK Monostable motor lock A1400
(4 pcs. pack)

105056



Motor block and leaf position supervision
(4 pcs. pack)

105125



Release cable and sheath
(only for external installation)

105326

ACCESSORIES FOR AIR SEALING



Natural aluminium closing profile
(3m bar) (4 pcs. pack)

105319



Anodised aluminium closing profile
(3m bar) (4 pcs. pack)

105320



Lower guide profile brush H=19
(3m bar) (4 pcs. pack)

105346



Lower guide profile
(3m bar)
(4 pcs. pack)

105380



Lower guide profile brush H=19
(3m bar) (4 pcs. pack)

105346



Lower guide profile brush H=25
(3m bar) (4 pcs. pack)

105345

>>

FUNCTION KEYPADS/SELECTORS



Swivel sliding block
(the lower guide profile is necessary)
(8 pcs. pack)

105078



Pair of lower sliding blocks with bracket
(the lower guide profile is necessary) (4 pcs)

105487



SDK EVO function keypad (optional)
(starting from 4pcs.)

790019



LK EVO Function Selector
(4 pcs. pack)

790024



Key function selector KS EVO
(starting from 4 pcs)

790942

NOTE

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ACCESSORIES FOR CRYSTAL LEAVES (NOT FOR TELESCOPIC MODELS)



Side profile (8 pcs.)
Clamping profile (4 pcs.
pack) glass 12 mm
3 m bars

105412



Side profile (8 pcs.)
Clamping profile (4 pcs.
pack) glass 10 mm
3 m bars

105402



Rubber seal
(25 m pack)

105403



Fixing plate
(24 pcs. pack)

105404



Terminal side panel
(16 pcs. pack)

105405



Pair of lower sliding
blocks
(length 120 mm each)
glass 10 mm
(10 pcs. pack)

105406

>>



Pair of lower sliding
blocks
(length 120 mm each)
glass 12 mm
(10 pcs. pack)

105413

COMPONENTS FOR PLIERS FOR 2 CRYSTAL LEAVES WITH LENGTH 1.5 M

Q.ty	Description	Item code
2	Side profile	105402
1	Clamping profile	
6 m	Rubber seal	105403
6	Fixing plate	105404
4	Terminal side panel	105405

NOTE

ATTENTION: in this price list, the item code and the relevant price refer to the individual piece.

It is understood that the orders must comply with the quantities indicated in the packs and orders of individual pieces will not be accepted.

SENSORS, RADARS AND ACCESSORIES IN KIT SUPPLY FOR SLIDING DOORS

ACCESSORIES



MINISWITCH GLS photocell(10 pcs. pack) ♦

105209



Pair of recessed front panels for MINISWITCH GLS in black plastic (10pcs)

105211



XFA button photocell (10 pcs. pack)

105127



Active threshold safety infrared, microwave, double tech. sensor XV1 (12 pcs. pack)

105108



XV1-CA false ceiling recessed support (only for XV1 sensors) (12 pcs. pack)

105136



XDT3 one-directional radar + escape route infrared safety (12 pcs. pack)

105104

>>



Active threshold safety infrared, microwave, double tech. sensor XDT1 (12 pcs. pack)

105114



XDT-CA false ceiling recessed support (only for XDT1, XDT3) (12 pcs. pack)

105107



XDT-BA mounting bracket (only for XDT1, XDT3 sensors) (12 pcs. pack)

105106



XDT-RA rain protection (only for XDT1, XDT3, XV1 and XBFA ON/ST) (12 pcs. pack)

105137



XBFRM1 one-directional microwave radar (12 pcs. pack)

105091



XBA1 mounting bracket (only for XBFRM1) (12 pcs. pack)

105092

>>



XRA1 rain protection (only for XBFRM1) (12 pcs. pack)

105093



XM100 ONE compact one-directional microwave radar (12 pcs. pack)

105129



XMRA rain protection (only for XM100 ONE) (12 pcs. pack)

105086



XBFA ST active movement and presence infrared sensor (12 pcs. pack)

105132



Active movement or presence infrared sensor XBFA ON (12 pcs. pack)

105090



X1S-SMA mounting bracket for X1S (only for X1S) (12 pcs. pack)

105119

>>



X1S 1-spot infrared sensor (12 pcs. pack)

105118



XMS-VB wall mounting support (only for XMS) (12 pcs. pack)

105085



XMS touch button (12 pcs. pack)

105084

NOTE

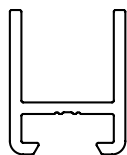
ATTENTION: in this price list, the item code and the relevant price refer to the individual piece. It is understood that the orders must comply with the quantities indicated in the packs and orders of individual pieces will not be accepted.

♦ Note: photocells are auxiliary safety devices. For the correct use in countries where Standard EN 16005 is applied, refer to the Standard itself.

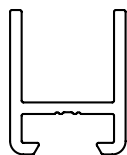
KIT SUPPLY FOR 20 MM AUTOMATIC DOORS PROFILES

TK20

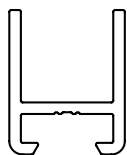
PROFILES AND ACCESSORIES



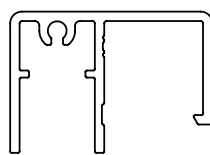
Vertical profile for mobile leaf, slotted and perforated at the two ends L=5100 mm (8 pcs. pack)
105801



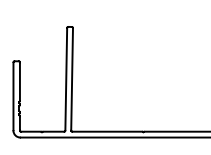
Vertical profile for fixed leaf, slotted and perforated at the two ends L=5100 mm (8 pcs. pack)
105802



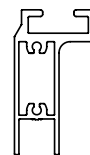
Leaf profile (without processing) L=5200 mm (8 pcs. pack)
105800



Vertical seal profile for fixed leaf and photocells L=5200 mm (4 pcs. pack)
105803



Vertical seal profile for fixed leaf and photocells L=5200 mm (4 pcs. pack)
105804

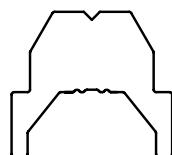


Upper head section L=5200 mm (4 pcs. pack)
105805

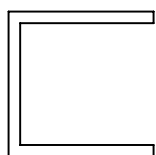
>>



Lower head section L=5200 mm (4 pcs. pack)
105806



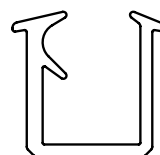
Lower head section attachment profile L=5200 mm (4 pcs. pack)
105807



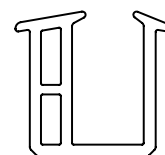
Fixed leaf wall fixing frame L=6100 mm (4 pcs. pack)
105808



Vertical profile single leaf stop L=5200 mm (4 pcs. pack)
105809



10 mm glass seals (5+5) 50 m coil
105810

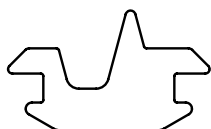


8 mm glass seals (4+4) 50 m coil
105811

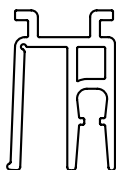
>>



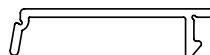
Side seals 80 m coil
105812



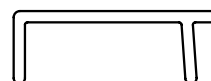
Central seals 100 m coil
105813



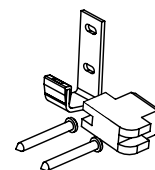
Lower guide plastic profile for mobile leaf L=5100 mm (10 pcs. pack)
105814



Closing plastic profile for fixed leaf profile (cod. 105803) L=5100 mm (20 pcs. pack)
105815

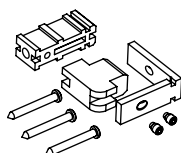


Closing plastic profile for wall photocell holder profile (cod. 105804) L=5100 mm (20 pcs. pack)
105816

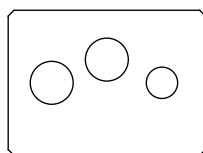


Accessory kit for mobile leaf comprising 1 floor guide, 4 blocks, 8 fixing screws (4 pcs. pack)
105817

>>



Fixed leaf accessory kit comprising 2 miter squares, 2 blocks, 5 dowels, 3 screws (4 pcs. pack)
105818



Fixing plates for 1 mobile leaf carriages (only for 940 series automated systems) (4 pcs. pack)
105819



Lower guide profile brush H=19 (3m bar) (4 pcs. pack)
105346

AUTOMATED SYSTEMS FOR SPECIAL ENTRANCES

AIRSLIDE
SF1400
SKR35
FHE Series

AIRSLIDE

Sliding door with integrated air curtain

PATENTED

NEW

Passage opening

2,500 - 4,800 mm



- Sliding door with integrated air curtain
- Suitable for areas open to the public such as shops, supermarkets, offices, banks, hospitals, airports and railway stations.
- Possibility of adding an integrated automatically resetting anti-panic breakout system in compliance with European Standard EN 16005.
- By combining the door with FAAC SERIES A1400 AIR automated system, thanks to its innovative 'Energy Saving' device, it identifies the walking path and perfectly optimises opening/closing times thus avoiding unnecessary air dispersal, even in the event of cross traffic.
- PRODUCT FEATURES: energy efficiency up to 62%, air quality up to 62%, improved environmental comfort up to 48%



EN16005



TECHNICAL SPECIFICATIONS

Model	AIRSLIDE
Power supply voltage	220-240 V~ - 50/60 Hz
Max absorbed power	160 W (single motor) - 330 W (double motor)
Use frequency	100%
Motor	Single-phase asynchronous motor
Motor rotation speed	2850 rpm
Fan diameter	80 mm
Fans' length	360 mm - 500 mm
Transom dimension (DxH)	182,1x 252,5 mm (GRILL INCLUDED)
Speed of air exiting the grids measuring 0 to 2.5 m in height	15,3 - 4,2 (m/s)
Airflow capacity (m3/h)	1250
Sound level (dB) at 5 m	49,5 - 57,5
Operating ambient temperature	- 20° C / + 55° C
Protection class of the automatic system	IP23

AIRSLIDE must always be used with a FAAC automated system

FAMILY MODELS

Item code	Model	Leaves	Wall recess width (mm)	Free passage width (mm)	Wall recess height (mm)	Passage height (mm)	APN + reset
105566	AIRSLIDE 2+2	2 mobile and 2 semi-fixed	2500 ÷ 4800	1200 ÷ 2200	2154 ÷ 2654	1900 ÷ 2400	yes (optional)
	AIRSLIDE 1+1	1 mobile and 1 semi-fixed	2500 ÷ 4800	1200 ÷ 2200	2154 ÷ 2654	1900 ÷ 2400	yes (optional)

Contact the FAAC area sales person to get the price offer.

THE COMPLETE AIRSLIDE SPECIAL ENTRANCE INCLUDES THE FOLLOWING COMPONENTS:

AIR SLIDE

- New design to facilitate installation of sensors on the external side.
 - Compact dimensions at 182 X 252 mm.
 - External casing that can be opened for inspection and maintenance, which is self-sustained with special accessories to prevent it from falling to the ground.
 - Motorized fan unit specifically designed to facilitate disassembly for maintenance.
 - Air curtain barrier inside the casing, which consists of a single-phase motor with sufficient power of 230V~/50Hz, including a fan unit with tangential fans in various combinations.
 - Absorption of the air inside the building and forced expulsion to the outside.
 - Automatic operation upon detection of the door opening pulse, and rest function (off).
- of extruded aluminum profiles in 6060 UNI 9006 alloy with rounded edges, equipped with radial vertical glazing beads, gaskets, brushes, movement and assembly accessories.
- Lower sliding guides to attach the doors to the floor.
 - Structure and leaf finish with oxidation or painting with RAL colours.
 - Option to mount transparent laminated glazing or transparent laminated double glazing.
 - Option to mount a mechanical lock on the movable doors.

AIRSLIDE ACCESSORIES

- Option of break-through sliding doors with and without automatic reset and lateral semi-fixation with internal hinges that are invisible on the profile, equipped with magnetic devices that guarantee an adjustable release force that does not exceed 220 N, as required by the European Standard EN 16005
- Option to mount a mechanical lock with three locking points, with a push cylinder and keys

SUPPORTING STRUCTURES

- Complete automatic door consisting of a sturdy self-supporting extruded aluminium structure.
- Crossbar with built-in air curtain made of extruded aluminum profiles.
- Pre-assembled system with perimeter frame complete with supporting head section, side pillars and accessories.
- Stainless steel suction unit.

LEAVES

- Automatic sliding door made

RAPPORTO DI PROVA N. 346389**TEST REPORT No. 346389****Luogo e data di emissione:** Bellaria-Igea Marina - Italia, 31/10/2017*Place and date of issue:***Committente:** FAAC S.p.A. - Via Monaldo Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italia*Customer:***Data della richiesta della prova:** 11/09/2017*Date testing requested:***Numero e data della commessa:** 74266, 11/09/2017*Order number and date:***Data del ricevimento del campione:** 21/09/2017*Date sample received:***Data dell'esecuzione della prova:** 03/10/2017*Date of testing:***Oggetto della prova:** determinazione in camera riverberante dei livelli di potenza sonora di ingresso automatico con lama d'aria integrata secondo le norme ISO 27327-2:2014 e UNI EN ISO 3741:2010*Purpose of testing:**determination in reverberation room of the sound power levels of automatic entrance with integrated air curtain unit in accordance with standards ISO 27327-2:2014 and UNI EN ISO 3741:2010***Luogo della prova:** Istituto Giordano S.p.A. - Strada Erbosa Uno, 78 - 47043 Gatteo (FC) - Italia*Place of testing:***Provenienza del campione:** campionato e fornito dal Committente*Origin of sample: sampled and supplied by the Customer***Identificazione del campione in accettazione:** 2017/2135*Identification of sample received:***Denominazione del campione*.***Sample name*.*

Il campione sottoposto a prova è denominato "AIRSLIDE".

*The test sample is called "AIRSLIDE".***(*) secondo le dichiarazioni del Committente.***according to information supplied by the Customer.*Comp. AV
Revis. RBIl presente rapporto di prova è composto da n. 19 fogli, n. 2 allegati ed è emesso in formato bilingue (italiano e inglese);
in caso di dubbio, è valida la versione in lingua italiana.
*This test report is made up of 19 sheets, 2 annexes and it is issued in a bilingual format (Italian and English);
in case of dispute the only valid version is the Italian one.*Foglio / Sheet
1 / 19CLAUSOLE: il presente documento si riferisce solamente al campione o materiale sottoposto a prova e non può essere riprodotto parzialmente, salvo approvazione scritta dell'Istituto Giordano.
CLAUSES: This document relates only to the sample or material tested and shall not be reproduced except in full without Istituto Giordano's written approval.

AUTOMATED SYSTEMS FOR SPECIAL ENTRANCES

SF1400

Typical Installation Examples page. 158

SF1400

Automatic folding door

Passage opening

845 - 1.970 mm



- FAAC SF1400 SERIES automated systems are particularly suitable in environments with limited space where it is not possible to install a normal sliding door and where an escape route is needed in compliance with European Standard EN16005.
- Dual motor option to increase the thrust of the door when opening and to counter wind force or to allow locking of the doors when closing in windy areas.
- The range consists of different models which feature actuation of single or double foldable leaves, with or without mechanical breakthrough system.
- Automatic realignment of the door during movement in case of an abnormal stop or accidental impact.



EN16005



TECHNICAL SPECIFICATIONS

Model	SF1400
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	140 W
standby power	3 W
Use frequency	100%
Motor	Motor powered at 36 V --- with encoder
Max. accessories load	1A - 24 ---
Type of traction	By means of an electro-conductive toothed belt
Opening leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Closing leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Partial opening adjustment	10% - 90% of total opening
Pause time	0 - 30 s
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN 16005)	As standard (may be excluded)
Low energy movement (EN 16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Profile type	30 mm aluminium profiles
Glass thickness	double laminated glass 33-15-33 mm
Escape route (EN 16005)	with mechanical breakthrough
Compliance with regulations	EN 16005; EN 13489-1 PI "c"; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaves	Wall recess width (mm)	Free passage width (mm)	Wall recess height (mm)	Passage height (mm)	ANTI-PANIC APN und DOUBLE MOTOR
105436CS	SF1400 1	single foldable	1100 ÷ 1300	845 ÷ 1045	2200 ÷ 2600	2000 ÷ 2400	yes
	SF1400 2	double foldable	1600 ÷ 2340	1230 ÷ 1970	2200 ÷ 2600	2000 ÷ 2400	yes

Contact the FAAC area sales person to get the price offer.

THE COMPLETE SF1400 SPECIAL ENTRANCE INCLUDES THE FOLLOWING COMPONENTS:

SUPPORTING STRUCTURES

- Supporting structure that can be disassembled to facilitate transport

LEAVES

- The leaves are made with rounded aluminium profiles with reduced section, guaranteeing brightness and accident prevention safety.
- They are equipped with insulating glasses 33-15-33
- Lack of visible hinges and movement with the help of roller bearings.
- Anti-panic breakout opening system suitable for escape routes with adjustable magnetic leaf attachment.
- Structure and leaf finish with oxidation or painting with RAL colours

FRONT COVER

- Available in natural and anodized aluminum, with a height of 158 mm.

DRIVE UNIT

COMPLETE WITH:

- Movement of the doors by means of a special linkage with a belt transmission for optimization of speed and smoothness.
- Main gearmotor powered at 36 Vdc with optical encoder
- Microprocessor control unit E1SL with specific firmware.
- Electro-conductive transmission belt.
- Power supply unit with switching power supply with low energy consumption (GREENTECH).

E1SL CONTROL UNIT

- Control unit E1SL - the same as is used on the A1000 and A1400 with characteristics that comply with the safety requirements of European standard EN 16005
- 230 V~ switching power supply unit
- Specific, coloured and removable terminal boards
- Programming of basic functions: automatic, night, door open, one-directional, partial, manual
- Automatic adjustments
 - Definition of open and closed positions
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 2 configurable output contacts
- N. 2 configurable input contacts
- 2 configurable emergency input contacts
- N. 2 programmable monitored safety sensor inputs EN16005
- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function

- LCD display to view the door statuses, the fault diagnostics and programming
- 3 buttons for BASIC programming of:
 - number of leaves
 - pause time
 - energy saving
 - night pause
 - opening and closing speed
 - opening and closing thrust force
 - thrust force time
 - interior/exterior detector programming
 - emergency configuration
- 3 buttons for ADVANCED programming of:
 - monitored protection sensor management
 - input configuration
 - pharmacy function
 - motor block
 - motoring on motor lock
 - night function input delay
 - output configuration
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive

COUNTER-VANDALISM SLIDING DOORS

SKR35

COUNTER-VANDALISM SLIDING DOORS

SKR35

SKR35

Anti-vandalism sliding door



- Pedestrian automatic entrance designed and certified according to safety features of burglar resistance class RC3 according to the European Standard EN 1627
- The RC3 certification in compliance with EU standard EN 1627 grants a high security level against break-in attempts made by professional thieves using manual devices such as screwdrivers, tongs and crowbars.
- Protection of shop and supermarket entrances, sensitive places where there's no need to install external protection shutters
- It permits complete visibility to the outside which is useful both for checking the inside and for displaying the products.



EN1627

EN16005



SKR35 must always be used together with a FAAC automatic door.

FAMILY MODELS

Item code	Model	Leaves	Wall recess width (mm)	Free passage width (mm)	Wall recess height (mm)	Passage height (mm)
105573	SKR35 1	1 moving	1900÷2400	850÷1100	2285÷2585	2100÷2400
	SKR35 1+1	1 mobile and 1 semi-fixed	1900÷2400	850÷1100	2285÷2585	2100÷2400
	SKR35 2	2 moving	2200÷3800	1000÷1800	2285÷2585	2100÷2400
	SKR35 2+2	2 mobile and 2 semi-fixed	2200÷3800	1000÷1800	2285÷2585	2100÷2400

Contact the FAAC area sales person to get the price offer.

THE COMPLETE SKR35 SPECIAL ENTRANCE INCLUDES THE FOLLOWING COMPONENTS:

SUPPORTING STRUCTURES

- Complete automatic door consisting of a sturdy self-supporting extruded aluminium structure.
- Reinforced 35mm aluminium profiles suitable for assembly of automatic entrances with both fixed and mobile leaves equipped with P5A certified glass.
- Pre-assembled system with perimeter frame complete with supporting head section, side pillars and accessories.

LEAVES

- Recess floor guide with continuous floor sliding block fitted the full length of the door leaf;
- Structure and leaf finish with oxidation or painting with RAL colours;
- P5A certified safety glass in the following dimensions: 44/6-12-33/2
- N.1 three-point safety mechanical lock installed in the central panels and accessible both from inside and outside of the property
- Junction between mobile and fixed leaves through dedicated aluminium profiles equipped with anti-lifting system;
- Thermal and acoustic seals thanks to lateral brushes.

TEST REPORT No. 328490

Place and date of issue: Bellaria-Igea Marina - Italy, 20/10/2015

Customer: FAAC S.p.A. - Via Calari, 10 - 40069 ZOLA PREDOSA (BO) - Italy

Date test requested: 12/05/2015

Order number and date: 66562, 15/05/2015

Date specimen received: from 18/04/2015 to 08/07/2015

Test date: from 18/04/2015 to 08/07/2015

Purpose of test: burglar resistance and classification (resistance under static loading, resistance under dynamic loading and resistance to manual burglary) of an automatic door-set with two sliding leaves and two fixed leaves in accordance with standards UNI EN 1627:2011, UNI EN 1628:2011, UNI EN1629:2011 and UNI EN 1630:2011

Test site: Istituto Giordano S.p.A. - Via Erbosa, 72 - 47043 Gatteo (FC) - Italy

Specimen origin: sampled and supplied by the Customer

Identification of specimen received: Nos. 2015/1772 and 2015/1773

Specimen name*

The test specimen is called "INGRESSO AUTOMATICO FAAC SKR35" ("FAAC SKR35 AUTOMATIC ENTRANCE DOOR").

(* according to that stated by the Customer.



LAB N° 0021

Comp. AV
Revis. RP

This test report consists of 16 sheets.
This document is the English translation of the test report No. 328490 dated 20/10/2015 issued in Italian; in case of dispute the only valid version is the Italian one. Date of translation: 30/12/2015.

Sheet
1 of 16

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DOOR SOLUTIONS FOR STERILE ENVIRONMENT

FHE Series

FHE Sliding

Sliding entrance for sterile environment



Opening

Automatic or Manual

Leaf

Single or double
Airtight



- The FAAC FHE Series automatic entrances are designed for hospital applications and for bacterial contamination controlled environments in accordance with the European Regulation EN16005.
- The range is made up of various hermetically sealed models available with few surface finishing treatments like aluminium and Stainless Steel.
- A wide range of accessories complete the offer such as lead panels, vision panels and safety sensors.



EN16005



TECHNICAL SPECIFICATIONS

Model	FHE Sliding
Power supply voltage	220-240V~ – 50/60 Hz
Max. power	140 W
standby power	3 W
Use frequency	100%
Max leaf width	65 mm
Motor	Motor powered at 36 V $\overline{\text{---}}$ with encoder
Auxiliary motor	Motor powered at 36 V $\overline{\text{---}}$
Max. accessories load	1A - 24 V $\overline{\text{---}}$
Type of traction	By means of an electro-conductive toothed belt
Opening leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Closing leaf time	10 ÷ 60 cm/s (1 leaf) - 20 ÷ 120 cm/s (two leaves)
Partial opening adjustment	5% - 95% of total opening
Pause time	0 - 30 s or Energy Saving function
Night pause time	0 - 240 s
Encoder	As standard
Protection sensor monitoring (EN16005)	As standard (may be excluded)
Low energy movement (EN16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 13489-1 Pl "c" CAT.2; EN 13489-2; EN 60335-1; EN 60335-2; EN ISO 12100; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaves	Free passage width (mm)	Passage height (mm)
105141	FHE-SSA Airtight automatic sliding door	single / double	800 ÷ 2000	2000 ÷ 2500
105142	FHE-SSM Airtight manual sliding door	single / double	800 ÷ 2000	2000 ÷ 2500
105143	FHE-SHA Airtight automatic sliding door	single	800 ÷ 2000	2000 ÷ 2150
105144	FHE-SHM Airtight manual sliding door	double	800 ÷ 2000	2000 ÷ 2150

THE COMPLETE SPECIAL ENTRANCE FHE INCLUDES THE FOLLOWING COMPONENTS:

DOOR FRAME

- The door frame, which is adjustable on three sides, consists of two elements, the frame profile and the subframe profile made of extruded aluminium and/or wide radius shaped stainless steel.
- Inside the frame profile there are special grooves designed to house the friction seal that joins it to the subframe profile.
- The frame profile also has a special internal groove used for fastening it.
- The groove is closed by a joint seal that is flush with the frame profile.
- By using different extension elements made of extruded aluminium, the door frame can be used on walls of various thickness.

FRONT COVER

- Protective housing and cover for the sliding mechanism in shaped extruded aluminium with wide radius corners and free from sharp edges and protrusions for easy cleaning.
- The housing profile contains a groove designed to receive the seal that completely closes its lower side in correspondence with top profile of the leaf
- The ends of the housing profile are closed with end caps having the same curvature as the profile.
- The housing profile allows easy maintenance that can be carried out by a single operator

SUPPORTING PROFILE

- In extruded anodized aluminium, slotted for height and width adjustment
- Dimensions (height x width)

100/140 x 166 mm

- Sliding track integrated in profile

LEAVES

- Leaf made of extruded aluminium and/or wide radius shaped stainless steel.
- The top profile of the leaf is specially shaped to allow the carriage unit to be installed directly, without having to use an adapter profile.
- A special extruded non-toxic silicone seal is installed on the vertical profiles and the upper profile of the leaf.
- A special two-component seal with a lip facing the frame profile side is fitted into a special groove on the bottom profile of the leaf.

FHE SLIDING DOOR DRIVE UNIT COMPLETE WITH:

- Main gearmotor powered at 36 V with optical encoder
- Auxiliary gearmotor powered at 36 V with belt tensioning adjustment (in the double motor version)
- E1400 microprocessor control unit with safety control
- Electro-conductive transmission belt 12 mm
- 2 carriages (1 mobile leaf version) or 4 carriages (2 leaf version)
- Power supply unit with switching power supply with low energy consumption (GREENtech)

CARRIAGES

- Galvanised steel structure
- 2 sliding wheels in synthetic material on bearing
- Nylon counterthrust roller on bearing
- Height adjustment ± 7.5 mm via screw
- Lateral adjustments ± 10 mm
- Extruded aluminium leaf

- connection profile or spacers
- Brush for sliding track cleaning

E1SL CONTROL UNIT

- Control unit E1SL - the same as is used on the A1000 and A1400 with characteristics that comply with the safety requirements of European standard EN 16005
- 230 V~ switching power supply unit
- Specific, coloured and removable terminal boards
- Programming of basic functions: automatic, night, door open, one-directional, partial, manual
- Automatic adjustments
 - Definition of open and closed positions
 - Selection of optimal speed, acceleration and deceleration
 - Sensor monitoring in compliance with EN 16005
 - Anti-crushing safety device in compliance with EN 16005
 - Possibility of adjusting speed and SET UP execution directly on the board (without the aid of external programmers)
- RESET function
- 2 configurable output contacts
- N. 2 configurable input contacts
- 2 configurable emergency input contacts
- N. 2 programmable monitored safety sensor inputs EN16005
- Interlock function
- 'Gong' function
- 'Courtesy lights' function
- Immediate closing' function
- LCD display to view the door statuses, the fault diagnostics and programming
- 3 buttons for BASIC

programming of:

- number of leaves
- pause time
- energy saving
- night pause
- opening and closing speed
- opening and closing thrust force
- thrust force time
- interior/exterior detector programming
- emergency configuration
- 3 buttons for ADVANCED programming of:
 - monitored protection sensor management
 - input configuration
 - pharmacy function
 - motor block
 - motoring on motor lock
 - night function input delay
 - output configuration
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive

Sliding entrances for sterile environment

FHE Swing

Swing entrance for sterile environment

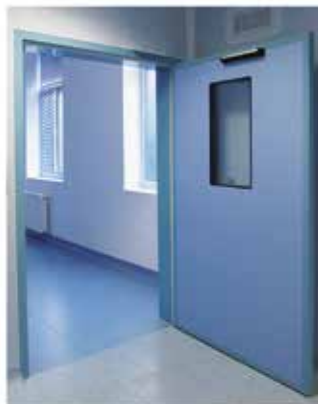


Opening

Automatic or Manual

Leaf

Single or double
Airtight



- The FAAC FHE Series automatic entrances are designed for hospital applications and for bacterial contamination controlled environments in accordance with the European Regulation EN16005.
- The range is made up of various hermetically sealed models available with few surface finishing treatments like aluminium and Stainless Steel.
- A wide range of accessories complete the offer such as lead panels, vision panels and safety sensors.



EN16005



TECHNICAL SPECIFICATIONS

Model	FHE Swing
Power supply voltage	220-240 V~ - 50/60 Hz
Max. power	100 W
standby power	3 W
Use frequency	100%
Motor	Motor powered at 24V ---
Max. accessories load	1A - 24 V ---
Electric lock power supply voltage	(N.O./N.C.) 24 V --- / 500 mA max.
Dimensions (LxDxH)	530x105x160 mm (length x height x depth)
Weight	10 kg
Operation in case of power cut	Manual push/pull opening - Spring closing
Max. leaf opening angle	100° ÷ 125°
Opening leaf time	4 - 10 s (adjustable)
Closing leaf time	4 - 10 s (adjustable)
Partial opening adjustment	10% - 90% of total opening
Pause time	0 - 30 s
Night pause time	0 - 30 s
Encoder	As standard
Protection sensor monitoring (EN 16005)	As standard (may be excluded)
Low energy movement (EN 16005)	As standard (may be excluded)
Operating ambient temperature	-20°C ÷ +55°C
Protection class	IP 23 (for internal use only)
Compliance with regulations	EN 16005; EN 61000-6-2; EN 61000-6-3

FAMILY MODELS

Item code	Model	Leaf	Free passage width (mm)	Passage height (mm)
105145	FHE-HSA Airtight automatic swing door	single / double	800 ÷ 2500	2000 ÷ 2500
105146	FHE-HSM Airtight manual swing door	single / double	800 ÷ 2500	2000 ÷ 2500
105147	FHE-HHA Airtight automatic swing door	single	800 ÷ 1300	2000 ÷ 2500
105148	FHE-HM Non Airtight automatic swing door	single / double	800 ÷ 2500	2000 ÷ 2500
105149	FHE-HA Non Airtight automatic swing door	single / double	800 ÷ 2500	2000 ÷ 2500

Contact the FAAC area sales person to get the price offer.

THE COMPLETE SPECIAL ENTRANCE FHE INCLUDES THE FOLLOWING COMPONENTS:

DOOR FRAME

- The door frame, which is adjustable on three sides, consists of two elements, the frame profile and the subframe profile made of extruded aluminium and/or wide radius shaped stainless steel.
- Inside the frame profile there are special grooves designed to house the friction seal that joins it to the subframe profile.
- The frame profile also has a special internal groove used for fastening it.
- The groove is closed by a joint seal that is flush with the frame profile.
- By using different extension elements made of extruded aluminium, the door frame can be used on walls of various thickness.

LEAVES

- Leaf made of extruded aluminium and/or wide radius shaped stainless steel.
- The FHE swing doors are fitted with concealed hinges that can be adjusted in all three dimensions to allow the leaf to adapt to all installation requirements.
- Designed with seals between the vertical sides and the upper horizontal edge of the frame and the leaf, integrated with a retractable drop-down floor sealing system (in the hermetically sealed versions)

DRIVE UNIT

COMPLETE WITH:

- FAAC electro-mechanical automated system for swing doors with direct current motor and return spring
- Protective cover in anodised aluminium-colour painted plastic material
- Activation arms in extruded aluminium
- Installation either on the architrave or on the door with outwards or inwards opening
- Manual operation in the event of power failure and spring closing

CONTROL UNIT

- Built-in microprocessor control unit with self-diagnosis and continuous monitoring of all door functions
- Anti-crushing protection active both during closing and opening through a high-precision magnetic encoder
- Integrated functions selector with the following operating logics: AUTOMATIC - MANUAL/NIGHT - OPEN
- Self-learning of 'open' and 'closed' door positions
- Selection of the type of arm to be used
- 'CLOSING STROKE' function to assure door closing even in the event of strong wind
- "Partial STOP safety" function that defines the opening safety detection space
- "PUSH and GO" function that controls the motorized opening with an initial manual

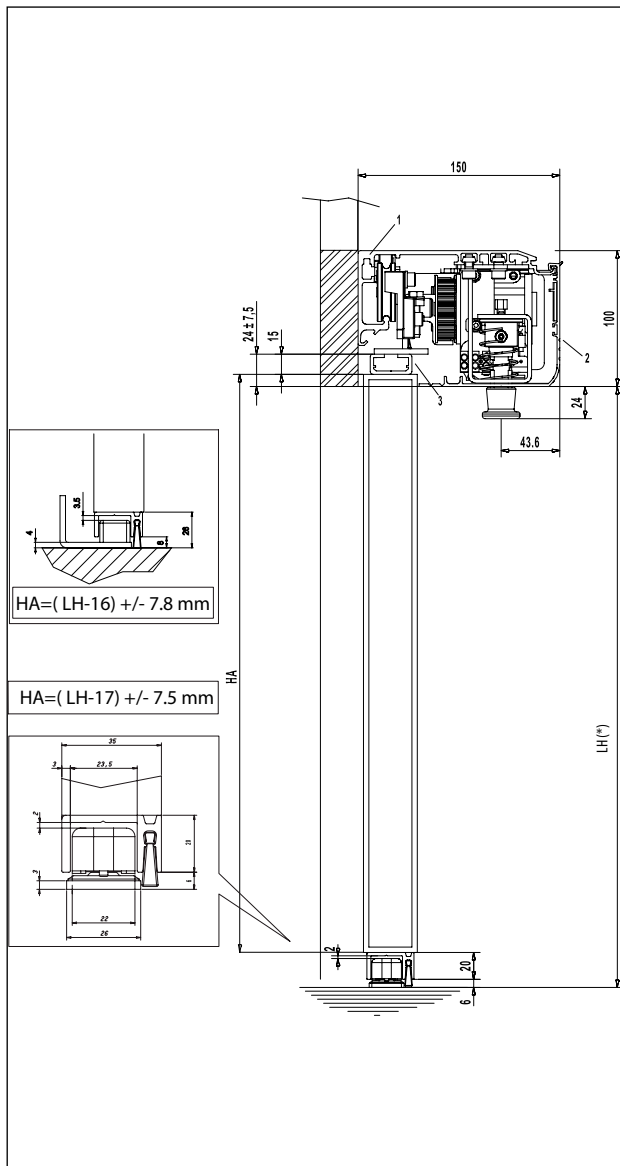
push of the door

- "SCP" function to increase the force in the final part of the closure
- In the "HOLD-CLOSE" function, the automation opposes any attempts to open the door due to gusts of air or manual pushing
 - KP EVO, LK EVO and KS EVO functions keyboard support
 - The use of KP EVO keyboard features the following functions:
 - Entry of access password for user and installer;
 - opening and closing speed adjustments;
 - Adjustment of opening and closing speed
 - Anti-crushing safety device adjustment
 - pause time adjustment;
 - Self-diagnosis;
 - weekly calendar management;
 - Battery kit and lock management;
 - I/O programming;
 - Maintenance cycle warning;
 - Performed cycle number displaying;
- MASTER-SLAVE version for double leaves doors;
- INTERLOCK function;
- INTERCOM function;
- Firmware update and download/upload of some information (configurations, timers, log files) through the USB drive;

TYPICAL INSTALLATION EXAMPLES

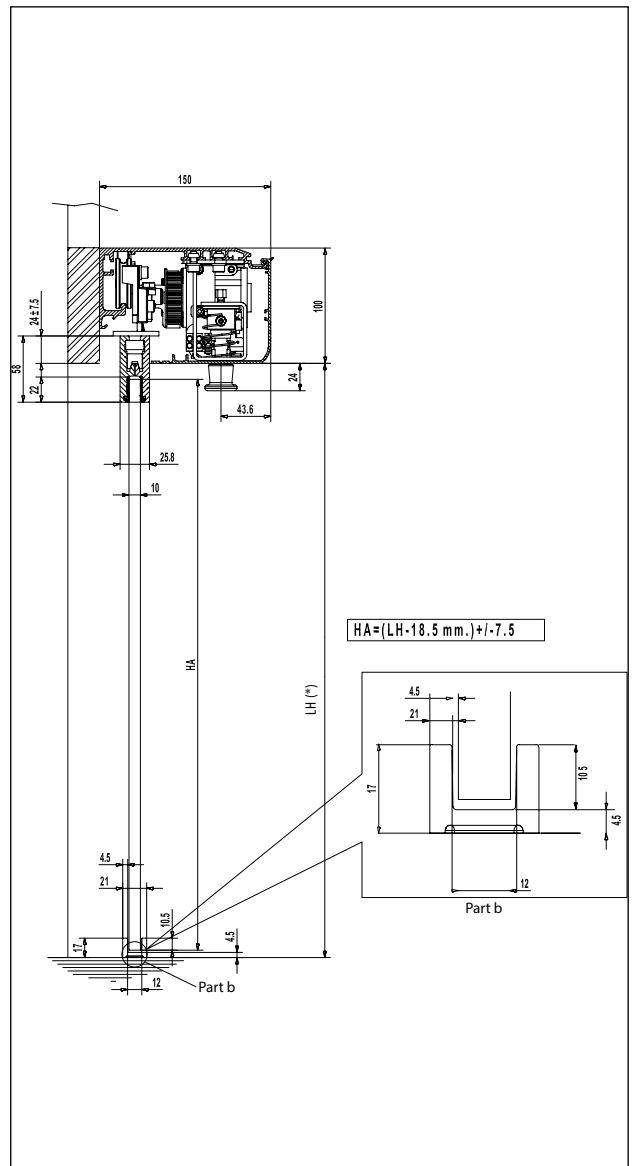
A1000

FRAMED LEAF HEIGHT REQUIREMENT



Note: dimensions in mm
 (*) recommended max. 2500.

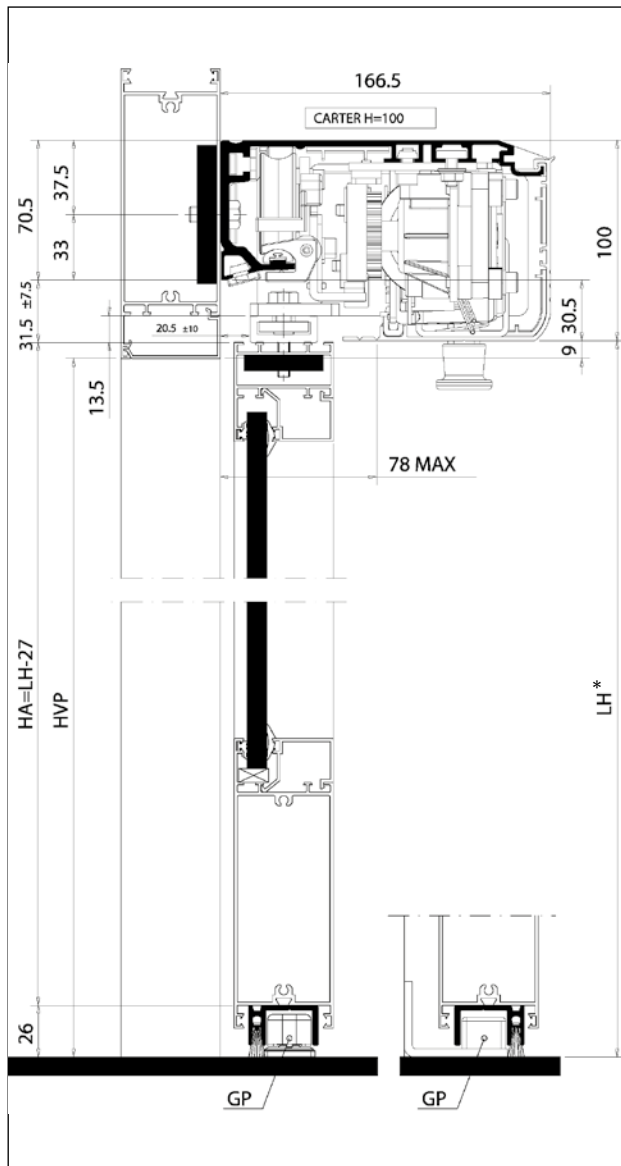
HEIGHT REQUIREMENT FOR CRYSTAL LEAF CONNECTION



Notes: dimensions in mm
 (*) recommended max. 2500.

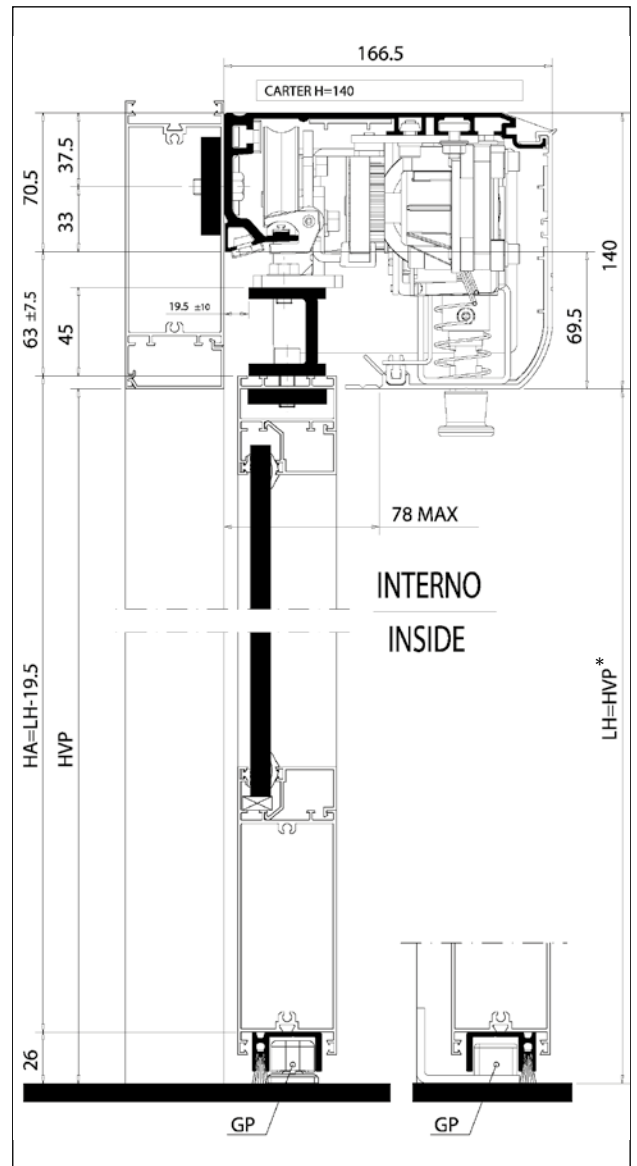
A1400 AIR

HEIGHT REQUIREMENT FOR FRAMED LEAF CONNECTION.
VERSION H100



Note: dimensions in mm
(*) recommended max. 2500.

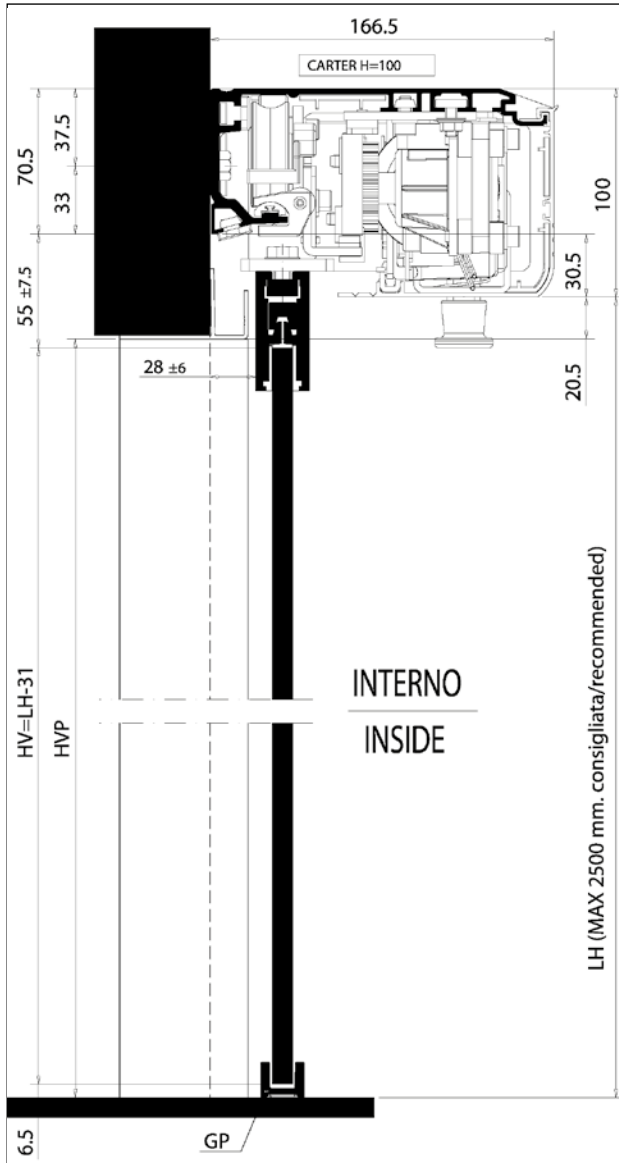
HEIGHT REQUIREMENT FOR FRAMED LEAF CONNECTION.
VERSION H140



Note: dimensions in mm
(*) recommended max. 2500.

A1400 AIR

HEIGHT REQUIREMENT FOR CRYSTAL LEAF CONNECTION

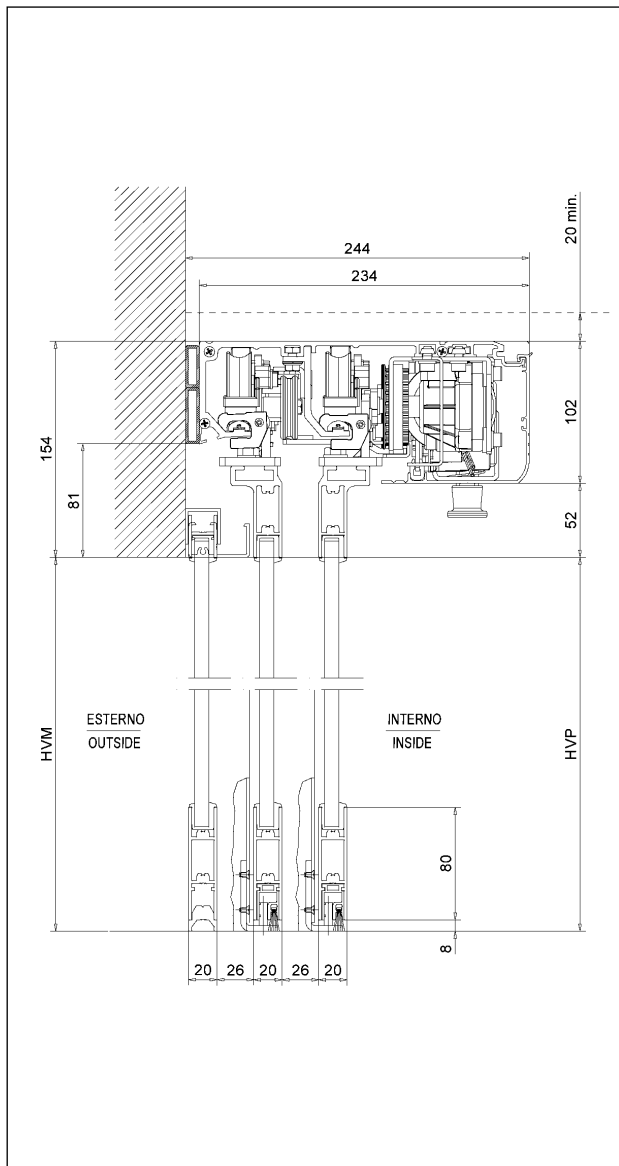


Notes: dimensions in mm

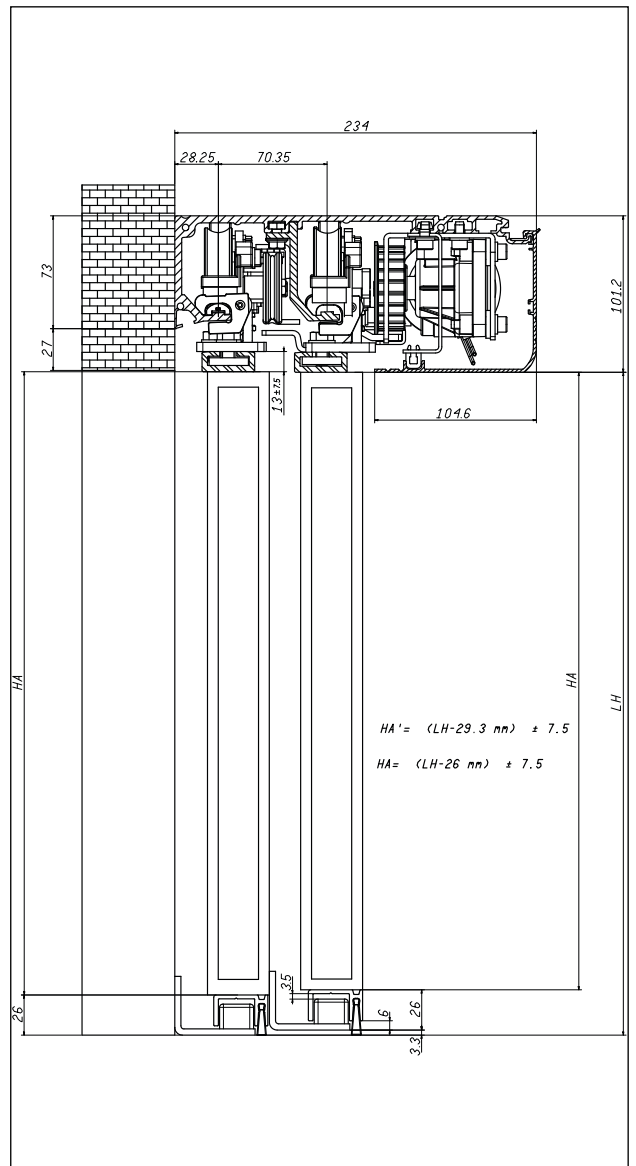
A1400 AIR T

2 TELESCOPIC SLIDING LEAVES WITH FIXED SIDE LEAF (TK20)

2 TELESCOPIC SLIDING LEAVES



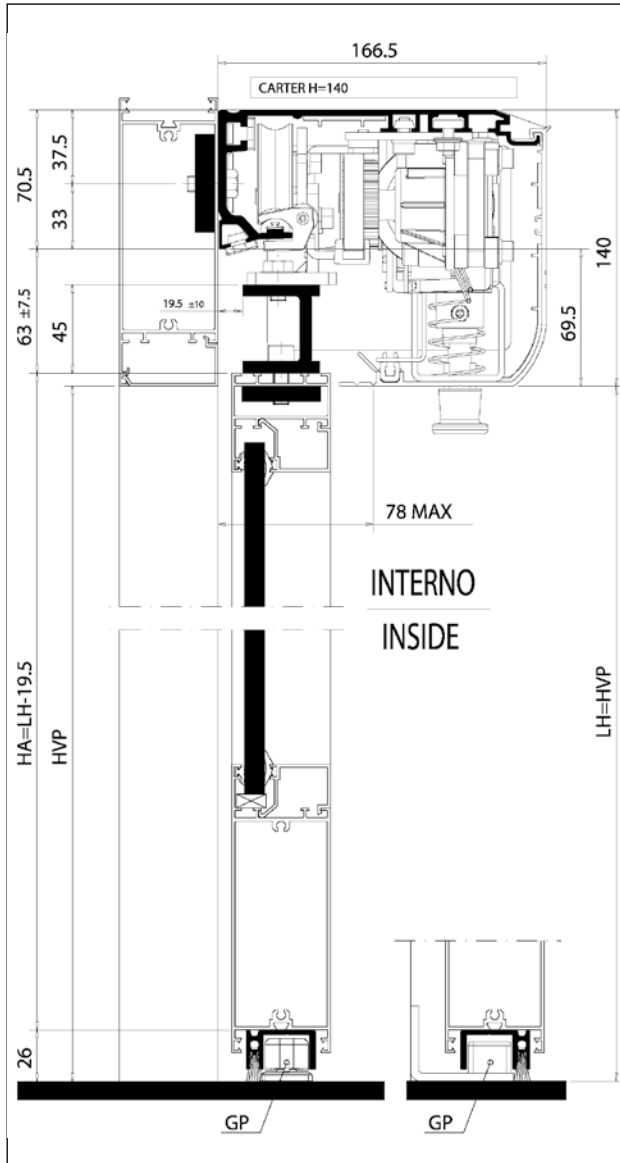
Note: dimensions in mm



Note: dimensions in mm

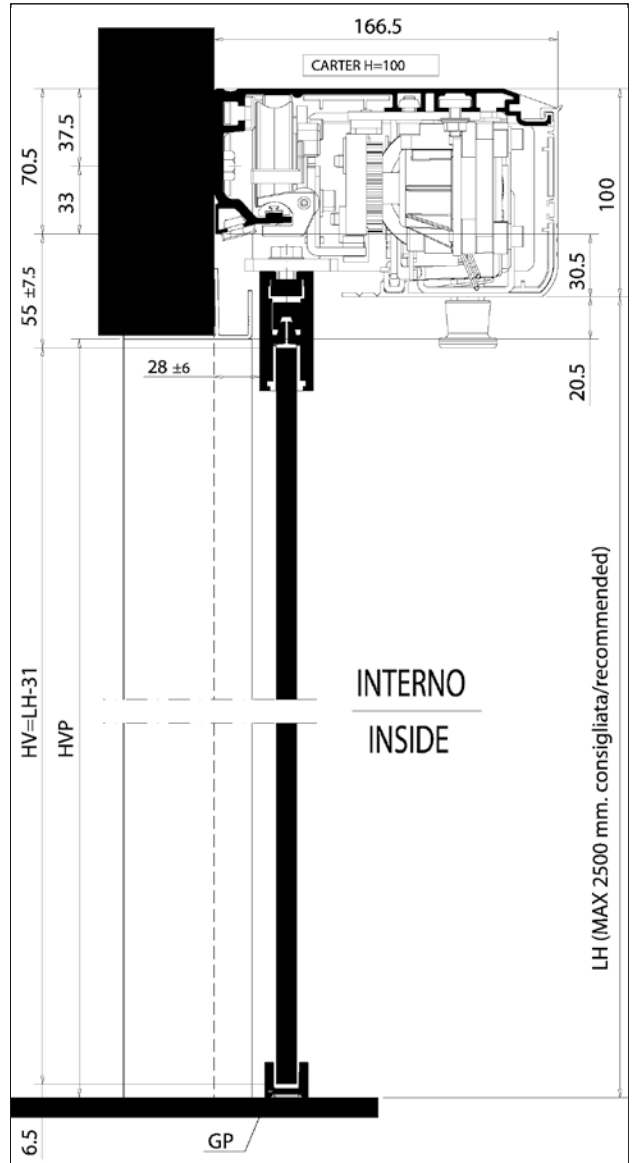
A1400 AIR RD

FRAMED LEAF - H140 VERSION - HEIGHT REQUIREMENT



Note: dimensions in mm

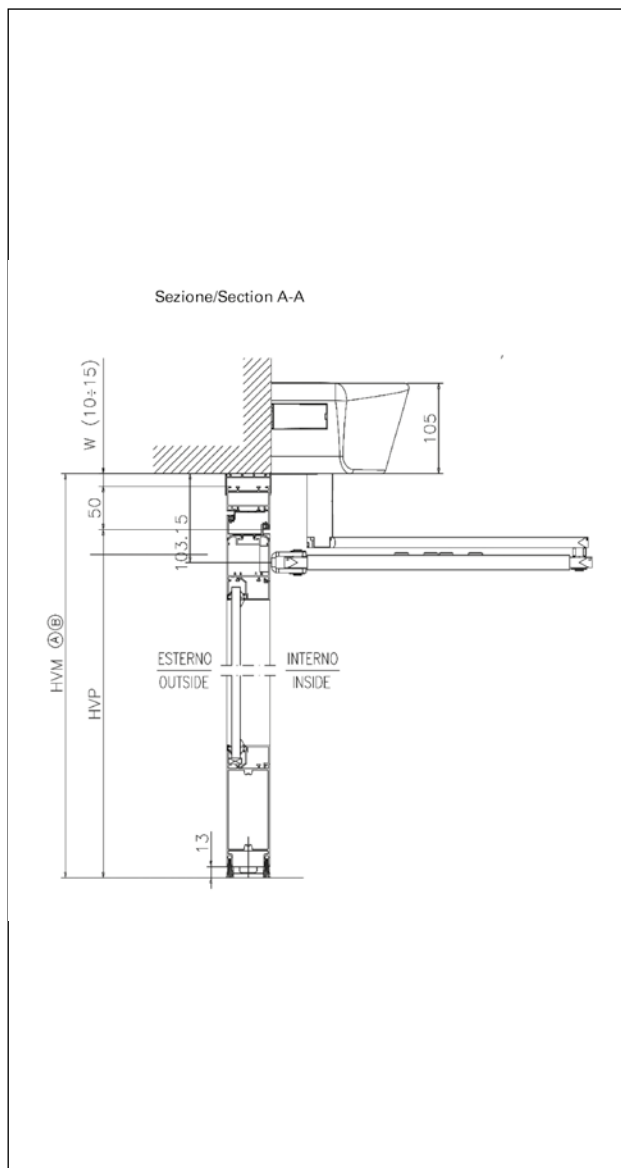
HEIGHT REQUIREMENT FOR CRYSTAL LEAF CONNECTION



Note: dimensions in mm

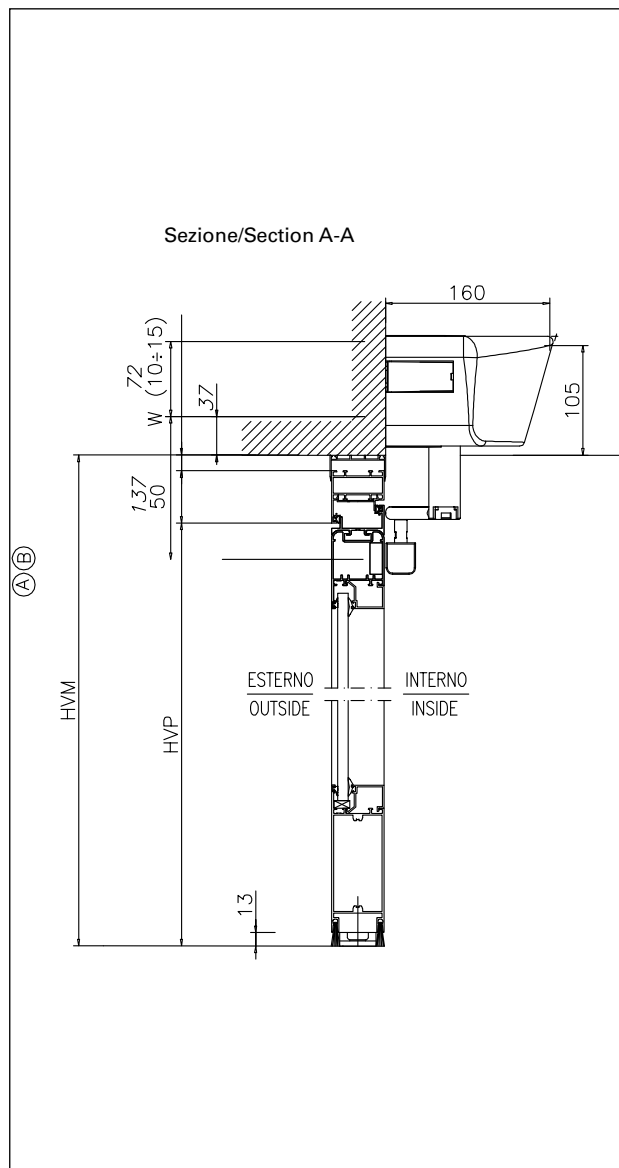
950N2

EXAMPLE OF INSTALLATION WITH ARTICULATED ARM



Note: dimensions in mm

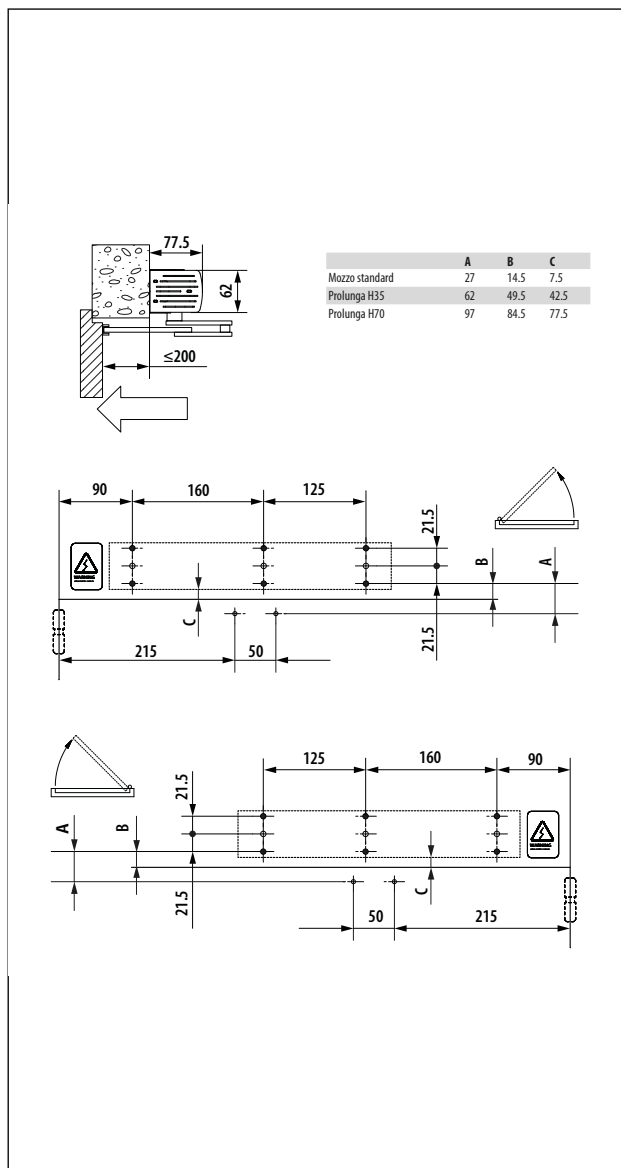
EXAMPLE OF INSTALLATION WITH SLIDING ARM



Note: dimensions in mm

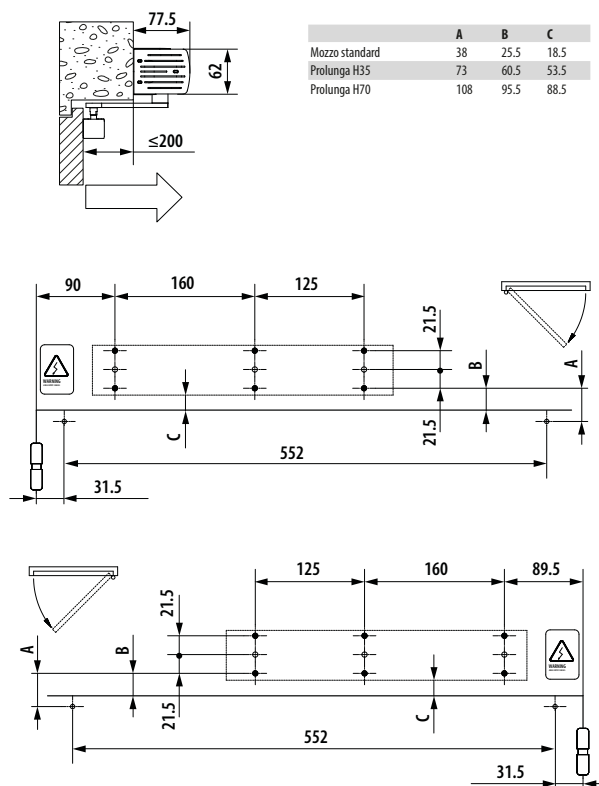
A951

EXAMPLE OF INSTALLATION WITH ARTICULATED ARM



Note: dimensions in mm

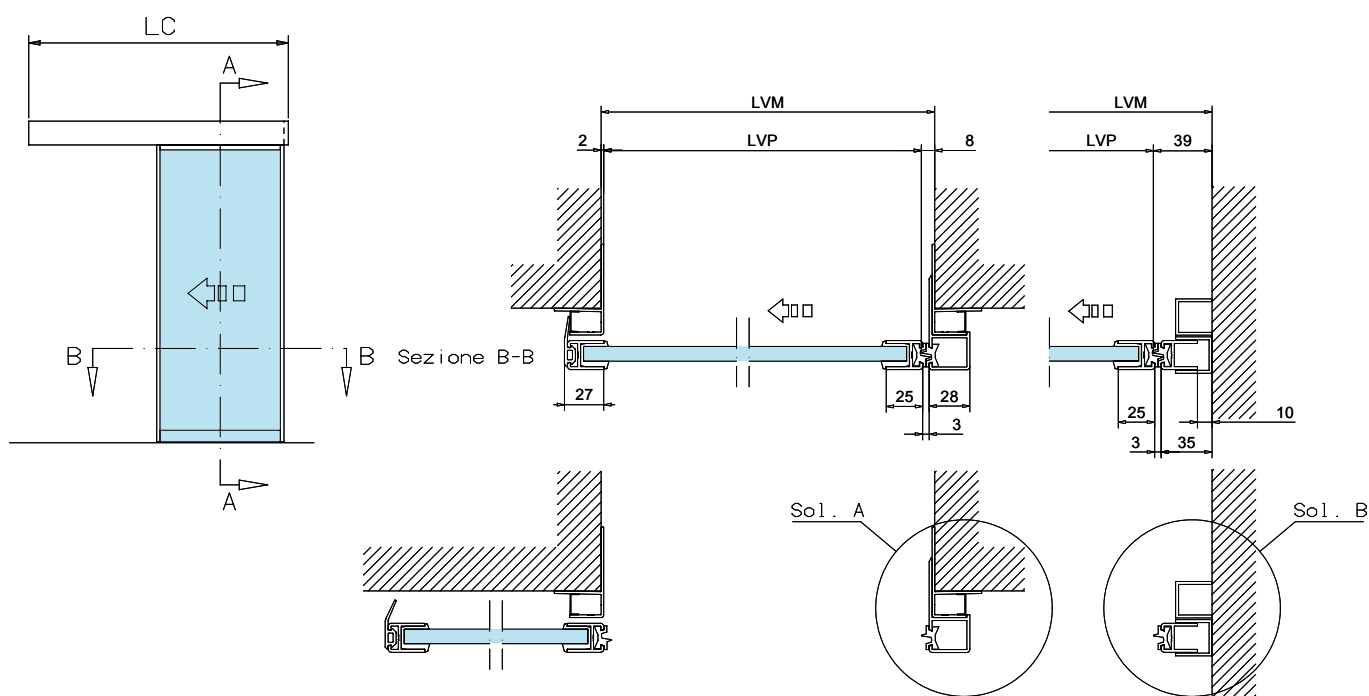
EXAMPLE OF INSTALLATION WITH SLIDING ARM



Note: dimensions in mm

TK20

1 SLIDING LEAF



LVM = Wall recess width min. 700 / max. 2000 (*) **LVM** = **LVP**+11 (sol.A) **LVM** = **LVP** + 42 (sol. B)

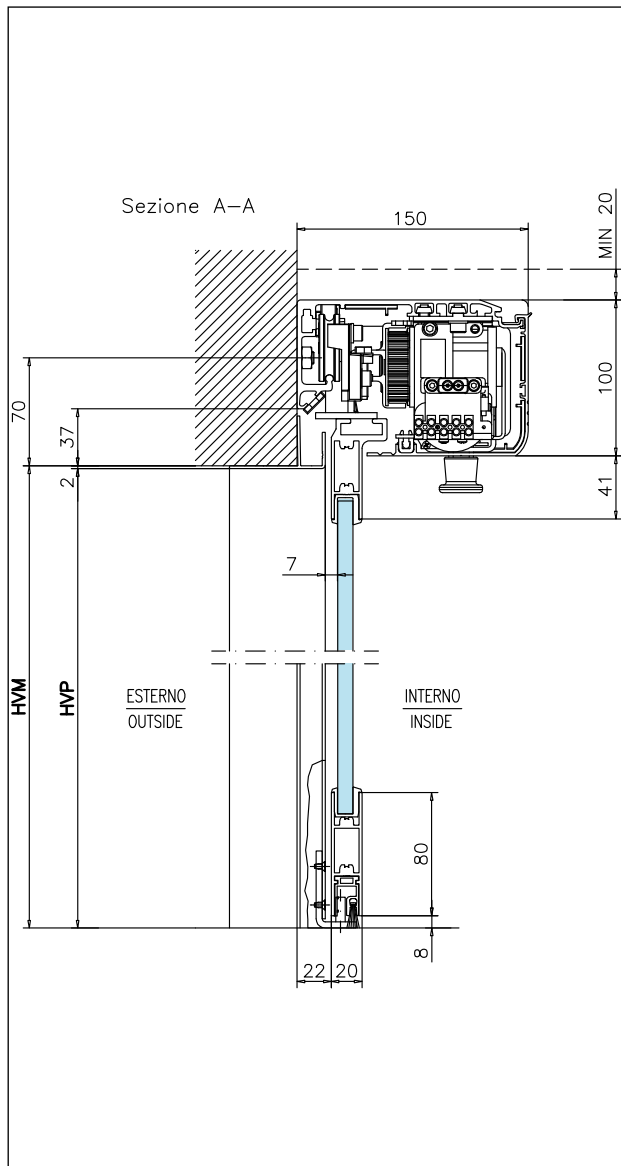
LVP = Free passage width **LVP** = **LVM**-11 (sol.A) **LVP** = **LVM**-42 (sol. B)

LC = Cover length

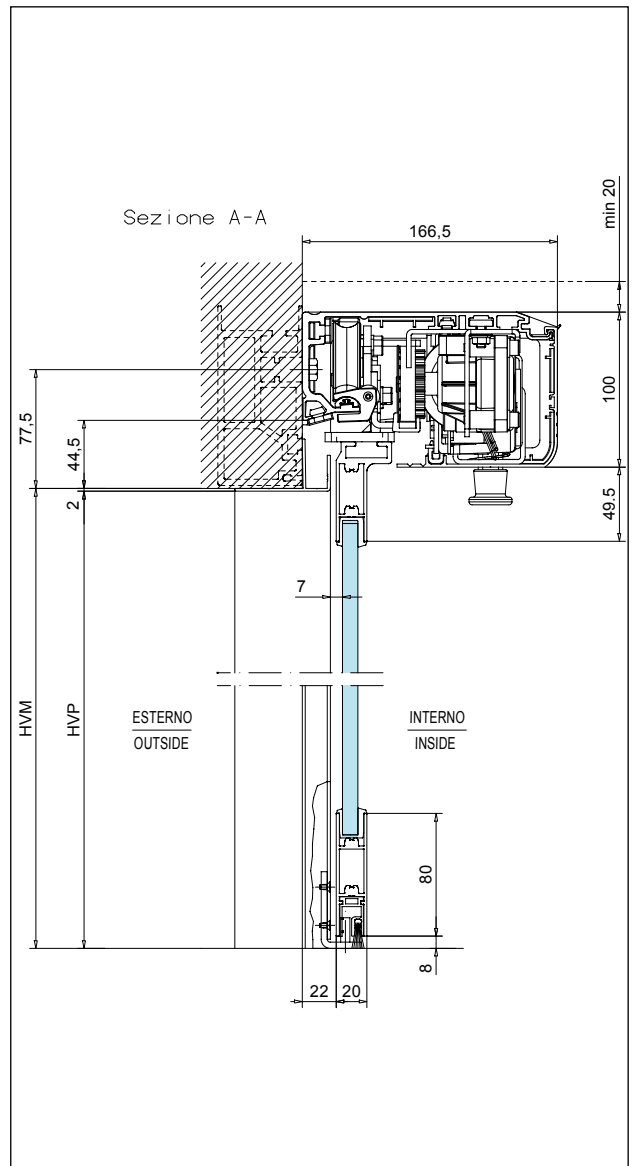
(*) for **LVM**>2000 mm, please contact FAAC.

TK20

FAAC A1000



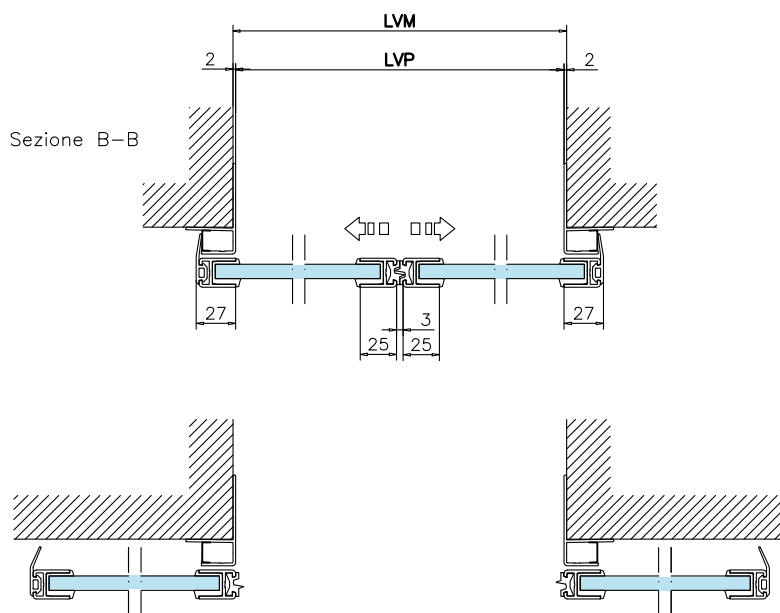
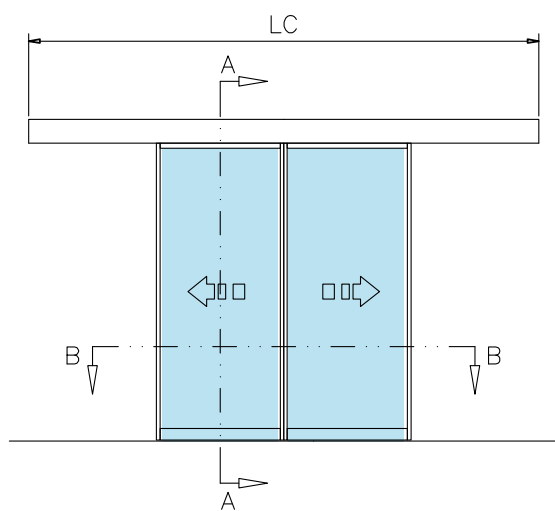
FAAC A1400 AIR1



HVM = Wall recess height max. 2500 mm (*)
HVP = Passage height **HVP = HVM - 2**
 (*) for $LVM > 5600$ mm, please contact FAAC.

TK20

2 SLIDING LEAVES



LVM = Wall recess width min 800 / max 2000 (*) **LVM** = **LVP**+4

LVP = free passage width min 800 / max 3000 mm (**) **LVP** = **LVM** - 4

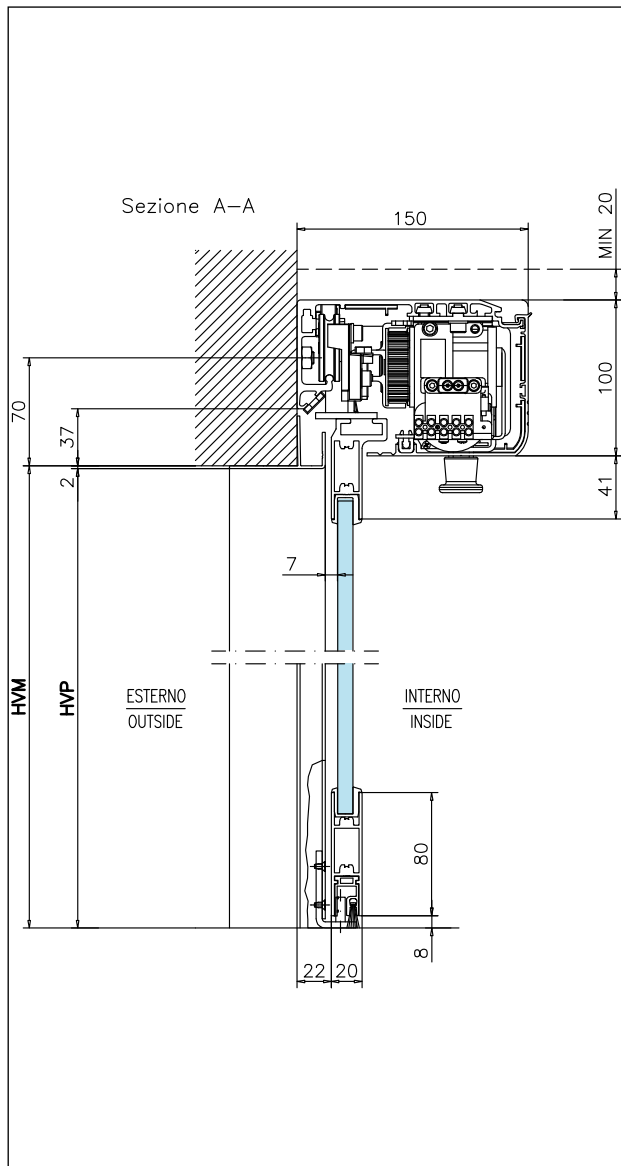
LC = cover length

(*) for **LVM**>2500 mm, please contact FAAC.

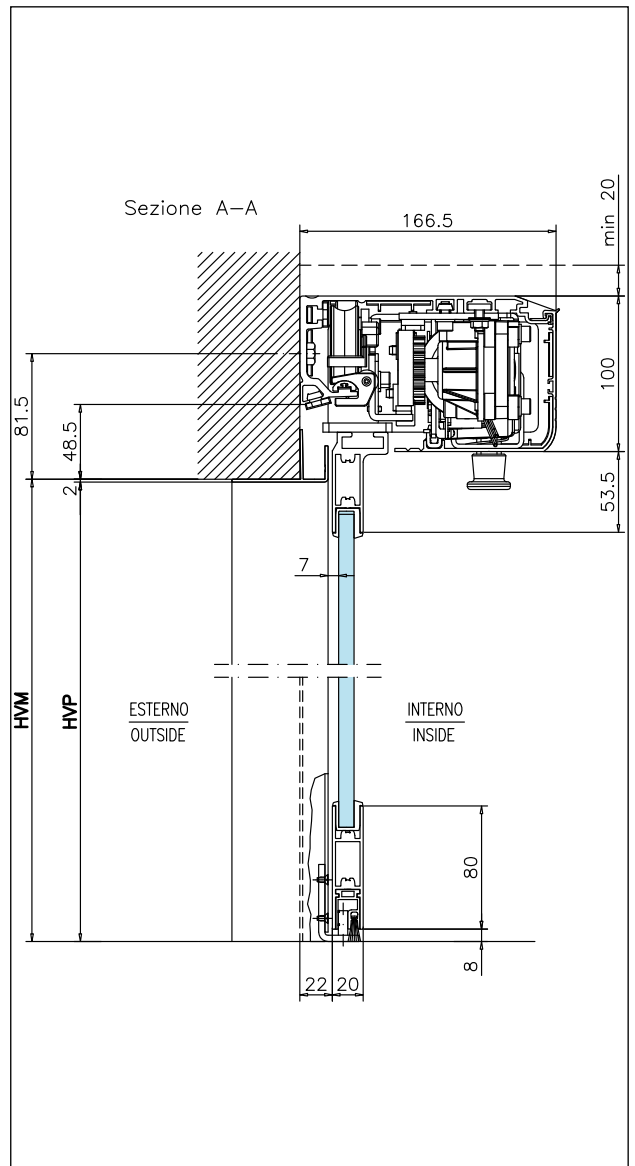
(**) recommended

TK20

FAAC A1000



FAAC A1400 AIR2



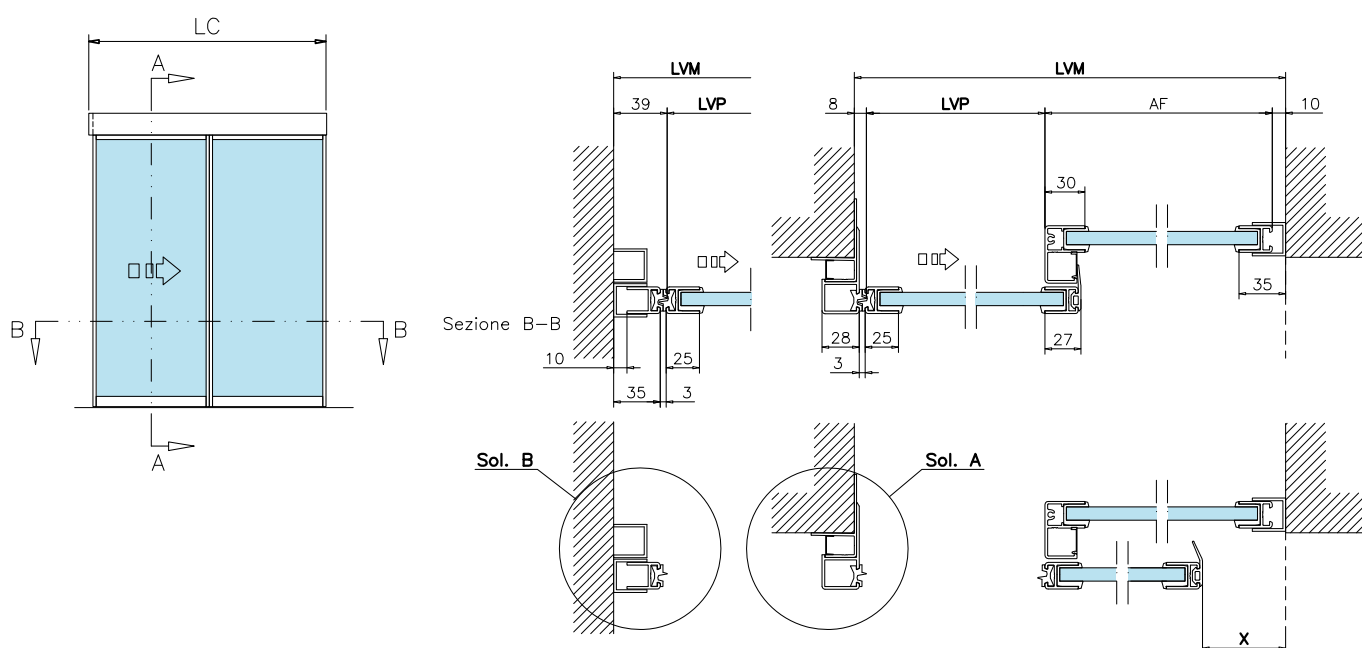
HVM wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM - 2**

(*) for $LVM > 5600$ mm, please contact FAAC.

TK20

1 SLIDING LEAF WITH FIXED SIDE LEAF



LVM = Wall recess width min 1500 / max 5100 (*) **LVM = 2LVP+45+X (sol.A)** **LVM = 2 LVP+76+X (sol. A)**

LVP = free passage width **LVP = (LVM-45-X)/2 (sol.A)** **LVP = (LVM-76-X)/2 (sol. B)**

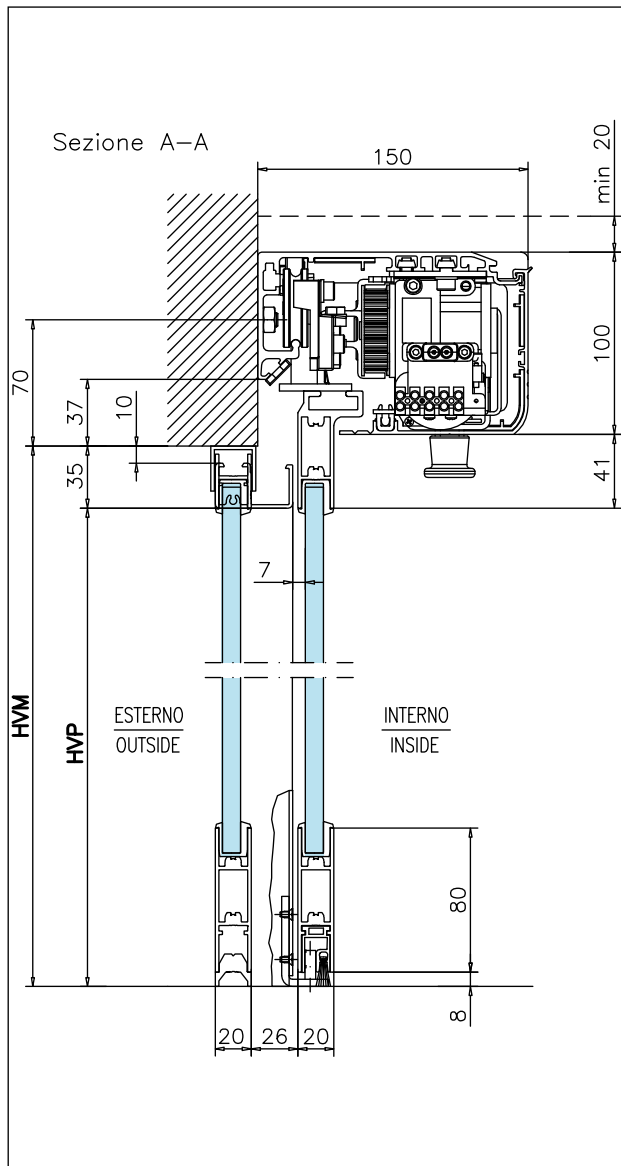
X = passage height Min 60 mm

LC = cover length

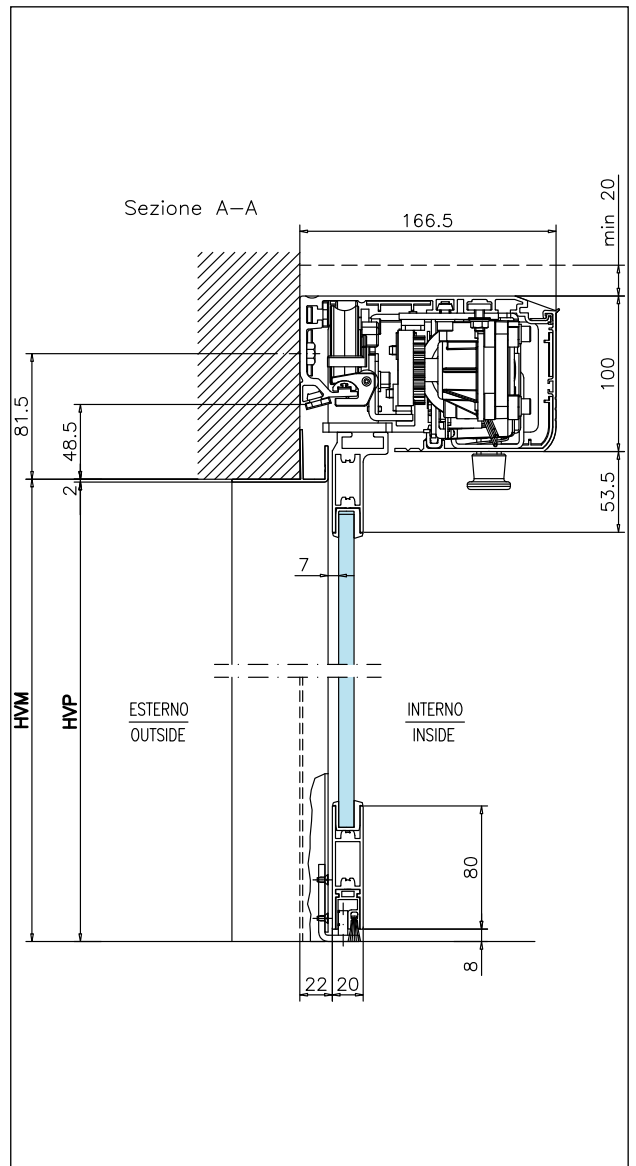
(*) per LVM>2500 mm, please contact FAAC.

TK20

FAAC A1000



FAAC A1400 AIR1



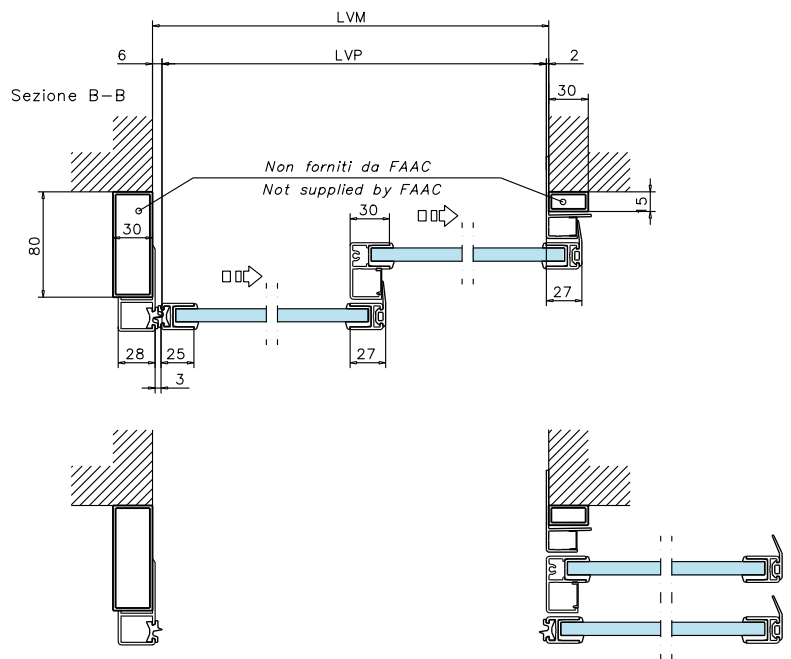
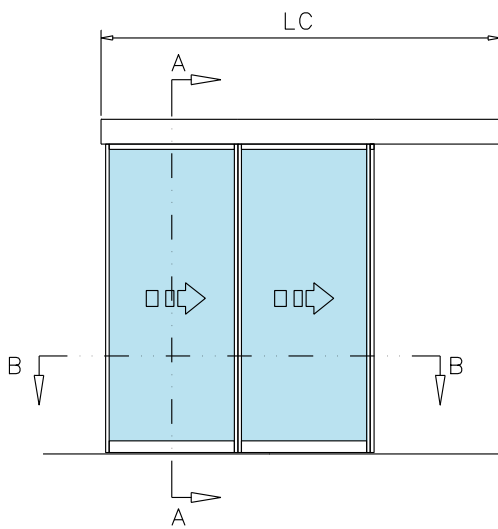
HVM = wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM-35**

(*) for LVM > 5600 mm, please contact FAAC.

TK20

2 TELESCOPIC SLIDING LEAVES



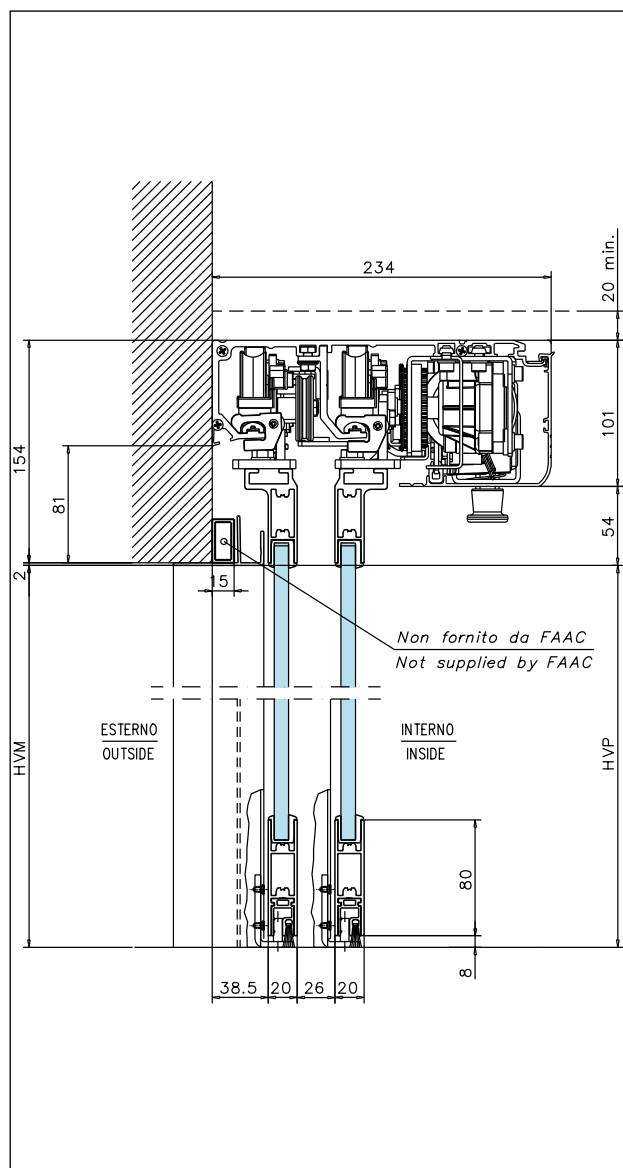
LVM = Wall recess width min 1100 / max 3000 **LVM = LVP + 8**

LVP = Free passage width **LVP = LVM - 8**

LC = cover length

TK20

FAAC A1400 AIR T2



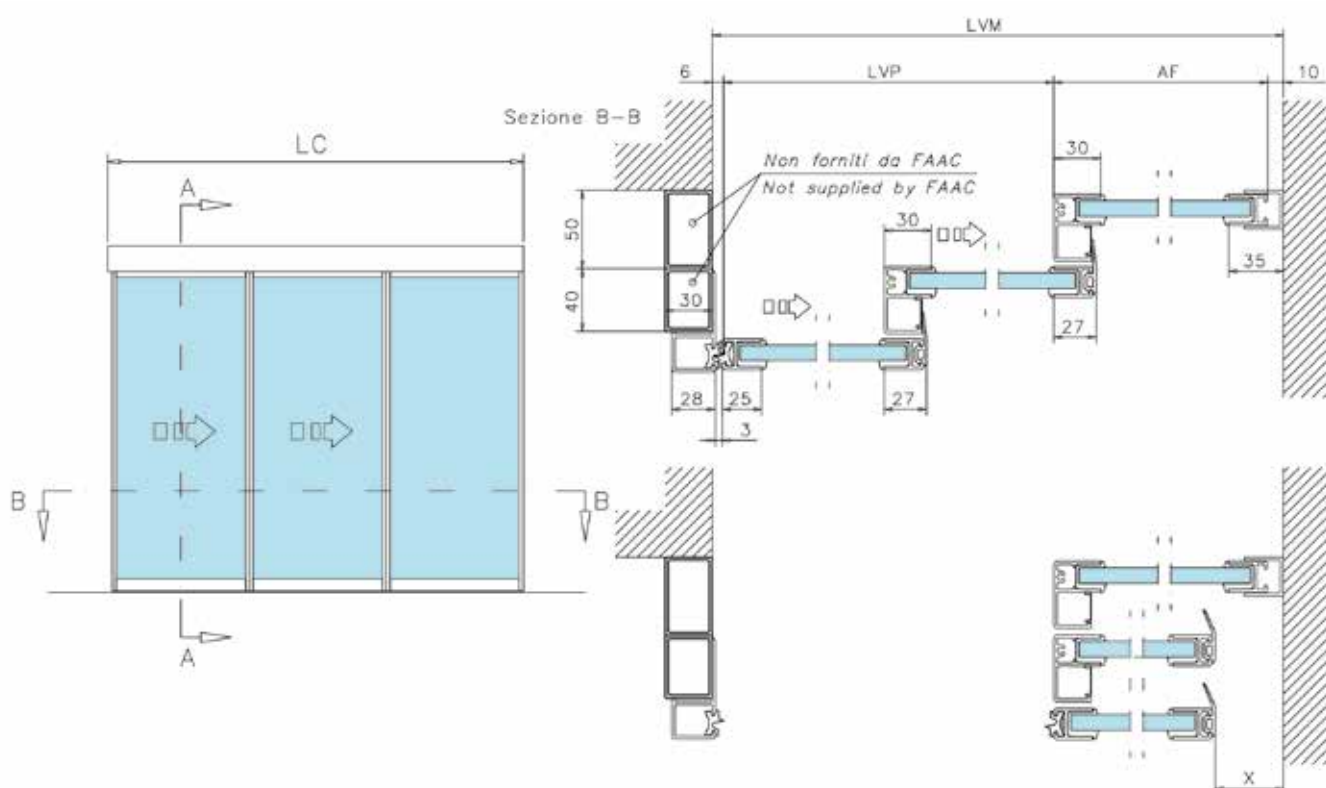
HVM = wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM - 2**

(*) for $LVM > 5600$ mm, please contact FAAC.

TK20

2 TELESCOPIC SLIDING LEAVES WITH FIXED SIDE LEAF



LVM = Wall recess width min 1750 / max 4600 (*) **LVM = 3 LVP / 2 + 33.5 + X**

LVP = Free passage width min 1100 / max 3000 mm. (*) **LVP = 2 (LVM - 33.5 - X) / 3**

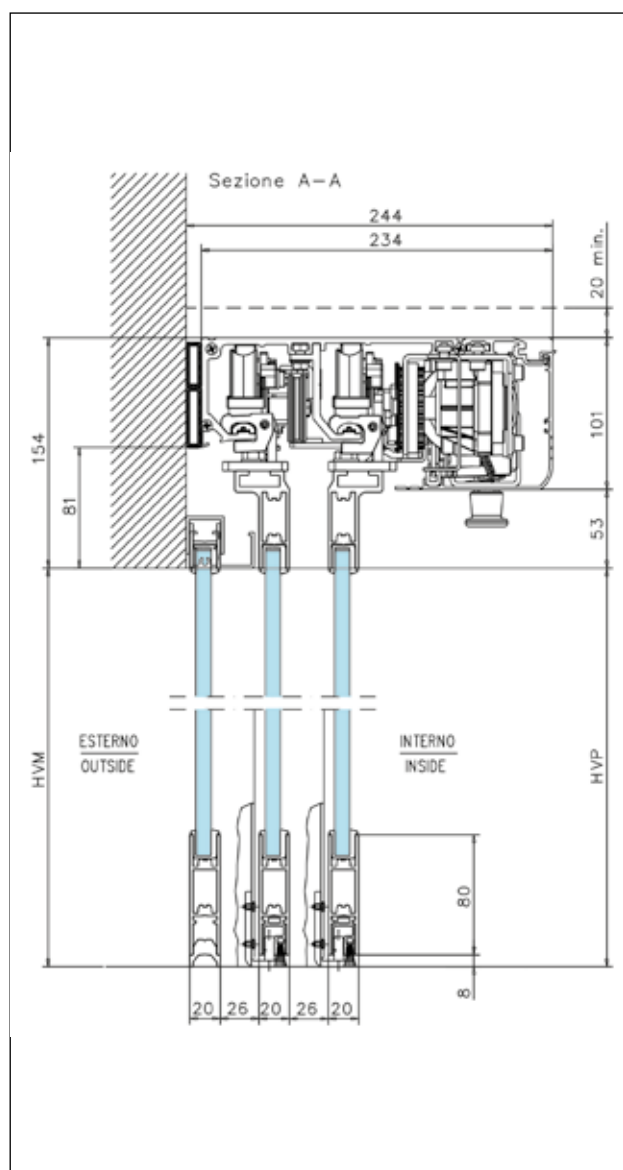
X = safety distance min 60 mm

LC = cover length

(*) for LVM > 4600 mm, please contact FAAC.

TK20

FAAC A1400 AIR T2



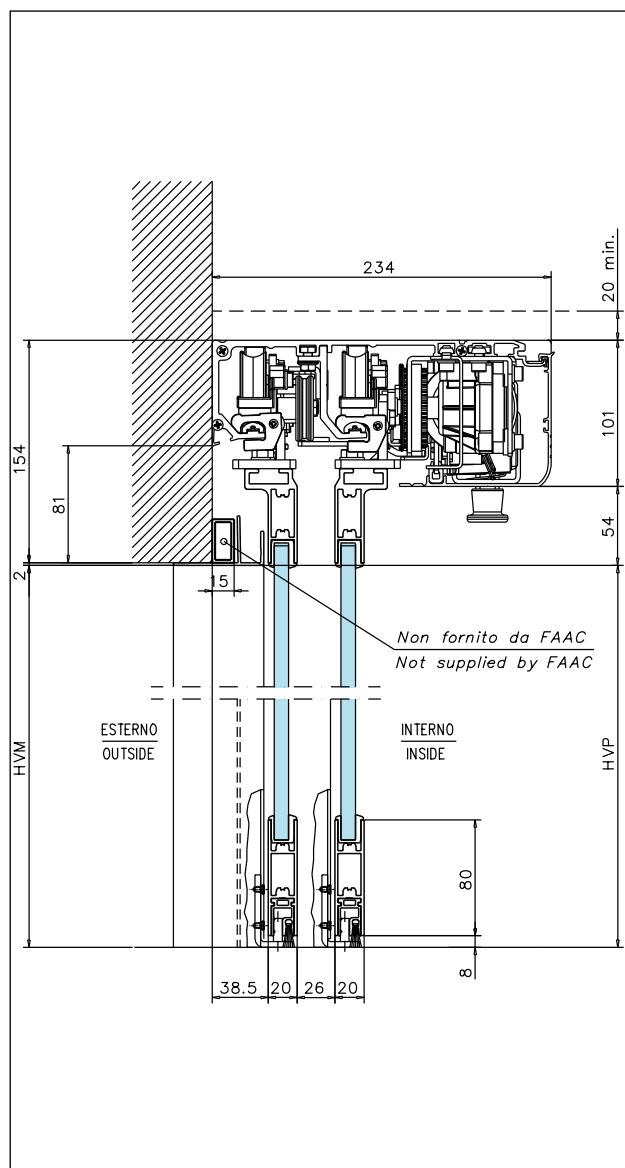
HVM = wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM**

(*) for $HVM > 2500$ mm, please contact FAAC.

TK20

FAAC A1400 AIR T4



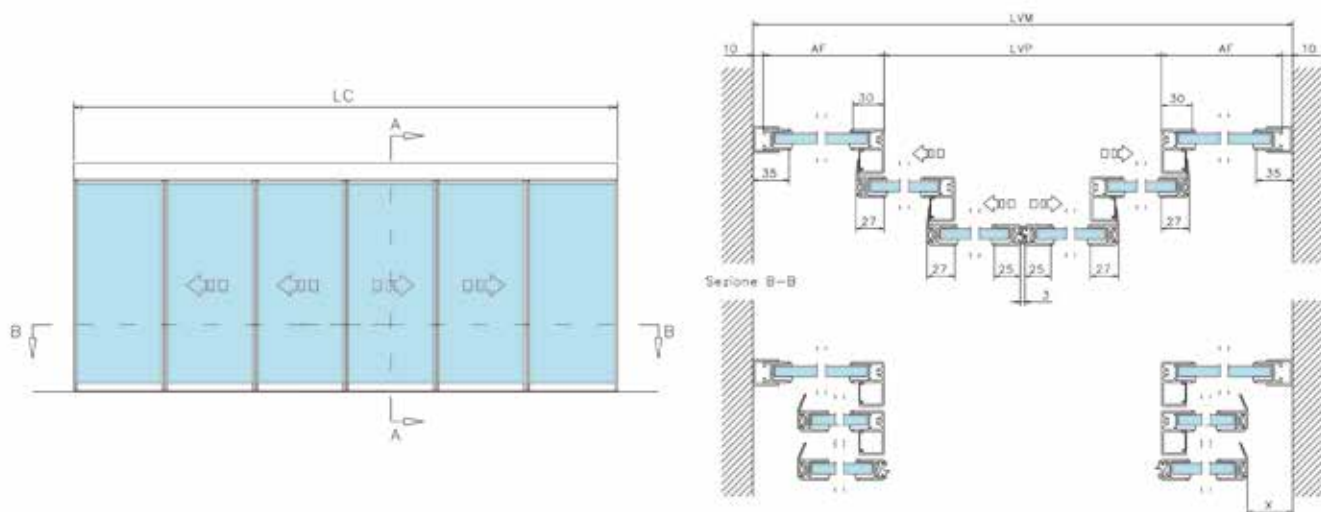
HVM = wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM - 2**

(*) for $HVM > 2500$ mm, please contact FAAC.

TK20

4 TELESCOPIC SLIDING LEAVES WITH 2 FIXED SIDE LEAVES



LVM = Wall recess width min. 2200 / max. 5600 (*) $LVM = 3 LVP / 2 + 52.5 + 2X$

LVP = Free passage width min 1400 / max 3600 mm (*) $LVP = 2 (LVM - 52.5 - 2X) / 3$

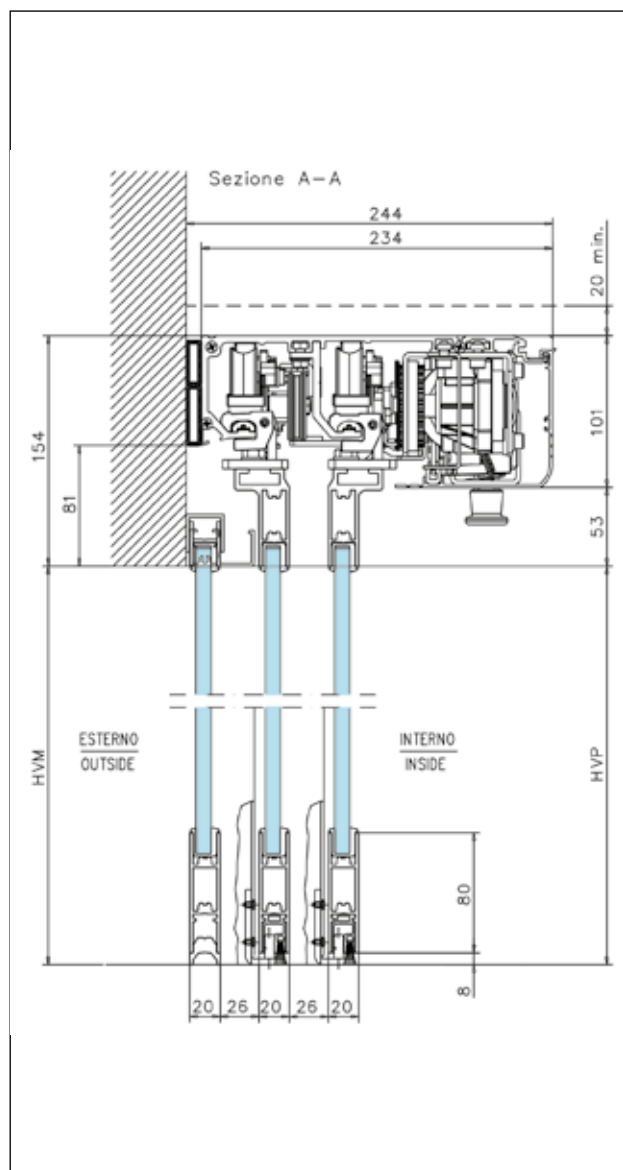
X = safety distance min 60 mm

LC = cover length

(*) for $LVM > 5600$ mm, please contact FAAC.

TK20

FAAC A1400 AIR T4



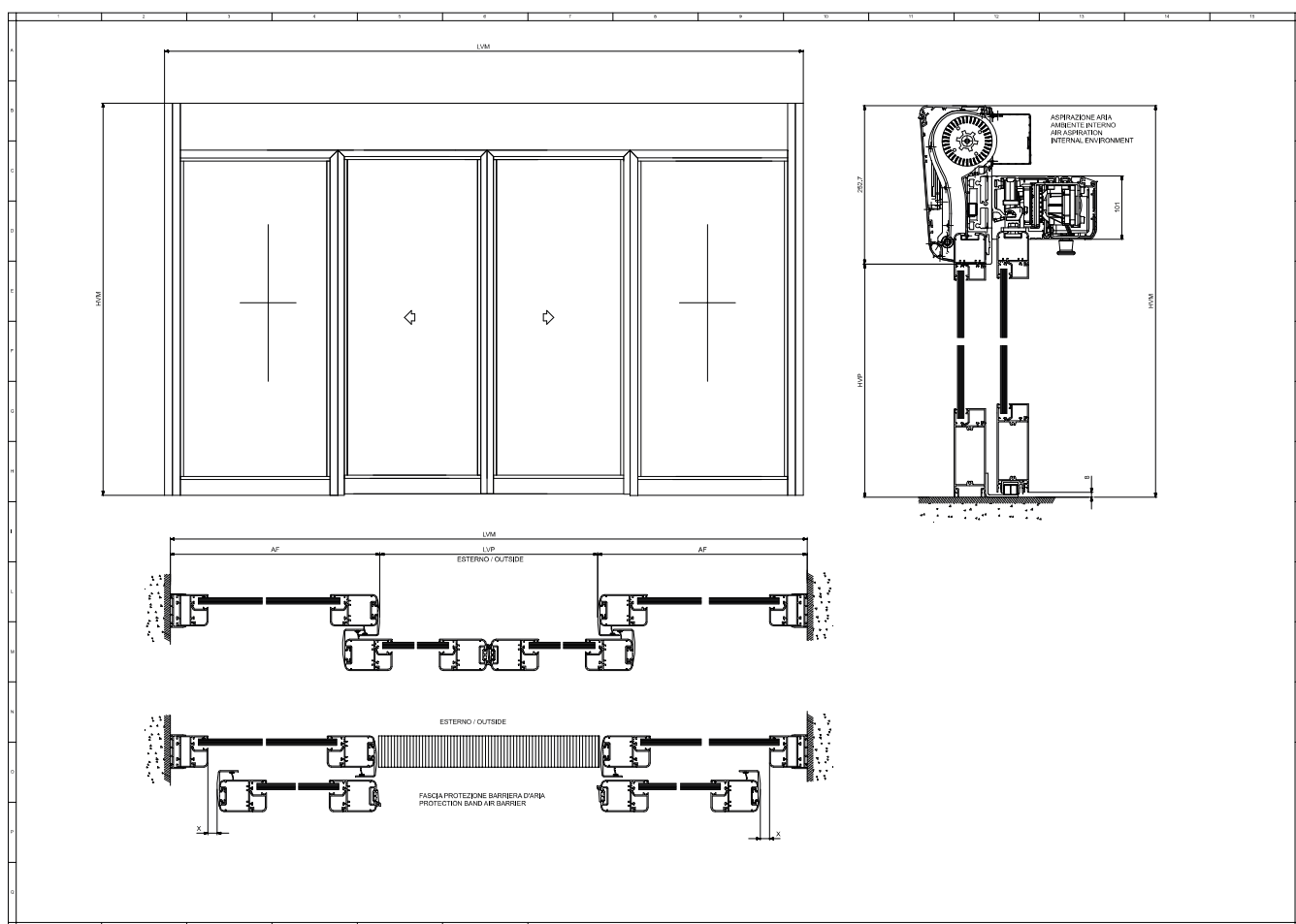
HVM = wall recess height max. 2500 mm (*)

HVP = passage height **HVP = HVM**

(*) for $HVM > 2500$ mm, please contact FAAC.

AIRSLIDE

AIR SHIELD AND A1400 AIR

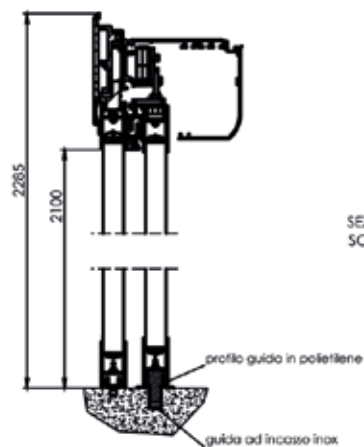
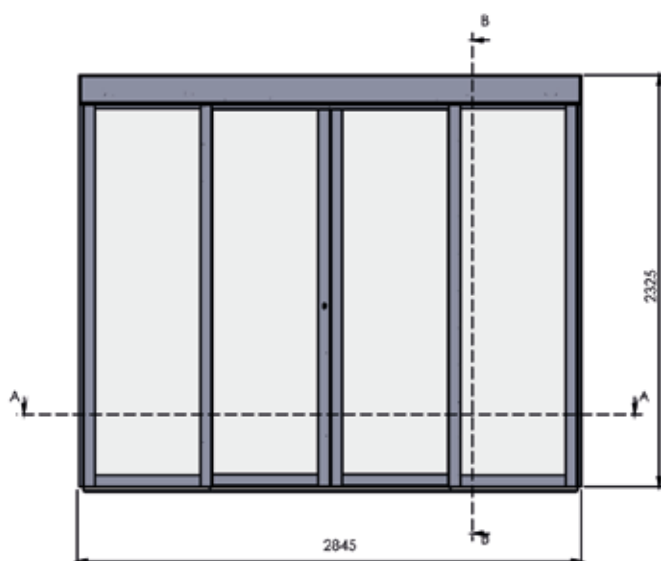


Note: dimensions in mm

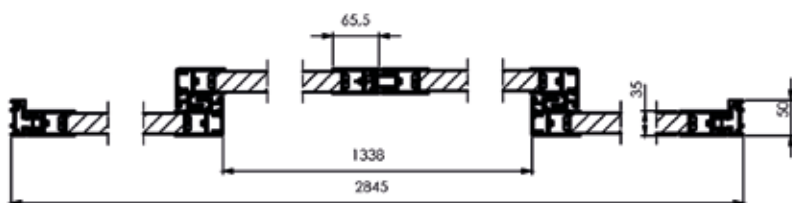
SKR35

EXAMPLE OF INSTALLATION WITH SKR35

SKR35 SEZIONI



SEZIONE B-B
SCALA 1 : 5



SEZIONE A-A
SCALA 1 : 5

Note: dimensions in mm

WARRANTY CONDITIONS

GENERAL CONDITIONS OF SALE

1. OBJECT AND SCOPE OF APPLICATION

1.1 These "General Terms and Conditions of Sale" (hereinafter, the "**General Conditions**") apply to any and all sale or supply agreements (hereinafter, jointly defined, the "**Contracts**" and, individually, the "**Contract**") executed between FAAC S.p.A., soc. unipersonale, (hereinafter, "**FAAC**"), as vendor, and the direct client of FAAC, as purchaser (hereinafter, jointly defined, the "**Clients**" and, individually, the "**Client**"), which concerns the products manufactured and/or market by FAAC (hereinafter, jointly defined, the "**Products**" and, individually, the "**Product**"). These General Conditions, therefore, apply only towards the Clients.

The final user of the Products (hereinafter, the "**Final User**"), therefore, must exclusively contact its own retailer for any warranty. In no case shall any general conditions of contract of the Client will be binding on FAAC, even if mentioned or included in orders or in any other documents transmitted by the Client to FAAC. No conduct of FAAC shall be interpreted or used to express tacit acceptance of FAAC to the general condition of contract of the Client. Therefore, all Contracts, offers, acceptance of orders and all deliveries by FAAC shall be deemed to have been made pursuant to the following General Conditions, except as otherwise expressly provided in writing by FAAC.

2. PREVALENCE

2.1 In the event of any discrepancies between the provisions of this General Conditions and those provided for in the Contract, the provisions of the Contract shall prevail, if agreed in writing.

3. EXECUTION OF THE CONTRACT, TOLERANCES

3.1 The Contracts between FAAC and the Client can be executed as follows: (A) by signing a written agreement drafted in a sole document, being understood that, in this case, the Contract will be considered executed once signed by FAAC and the Client; or

(B) by the exchange of document as follows: (i) the Client sends a purchase order (hereinafter, the "**Purchase Order**") to FAAC (also by fax or e-mail or, in general, any electronic/informatic tools) containing all the technical data necessary to identify the specifications of the Products (as, but not limited to, type of Product, quantity, price) and (ii) FAAC sends to the Client (also by fax or, e-mail or, in general, any electronic/informatic tools) its written acceptance (hereinafter, "**Order Confirmation**"), being understood that FAAC shall, at its sole discretion, be entitled to accept or refuse the purchase orders of the Client. In this case, the Contract will be considered executed once the Client receive the Order Confirmation; or (C) by the exchange of the documents as follows: (i) FAAC sends to the Client an offer, as valid contractual proposal (hereinafter, the "**Offer**"), containing all the technical data necessary to identify the specifications of the sale of the Products (as but not limited to, type of Product, specifications, quantity, price) and (ii) the Client sends to FAAC its written acceptance of such Offer without any modification to the Offer itself, as valid contractual acceptance (hereinafter, the "**Acceptance**"). In this case, the Contract will be considered executed on the conditions indicated in the Offer and once FAAC receive the related written Acceptance from the Client. It is understood that the Acceptance must return to FAAC within the expiration date of the Offer indicated in the same. If any Acceptance is not received by FAAC within the expiration date of the Offer, the latter will be considered null and void.

3.2 It is agreed that the execution of the Contract shall be deemed to have taken place at FAAC's place of business in Zola Predosa (Bologna, Italy). The Contract can not be cancelled by the Client, except with the written agreement of FAAC.

3.3 FAAC shall be entitled to make minor changes to the Product, without being obliged to inform the Client. The quality and quantity of the Product which FAAC undertakes to supply are those specified in the Contract, or failing that, as specified in the invoice at the time of delivery of the Products by FAAC. A tolerance of up to +/- 10% (ten percent) in respect of quantity will be allowed in relation to each of the Products.

4. PRODUCTS' SELLING PRICE

4.1 Unless otherwise agreed in writing by FAAC and the Client, FAAC's price list in force as of the date of execution of the Contract shall apply. The prices of any non-standard Products or any Products not appearing on the price list shall be determined by FAAC on a case by case basis. FAAC reserves the right to change the prices of the Products and/or the discounts, if any, applicable thereto at any time and for any reason, upon 30 (thirty) days' prior written notice to the Client. If the price list is quoted by FAAC in a currency other than EURO, then FAAC may alter the price of the Products at any time, without any notice to the Buyer, to compensate possible fluctuations in the exchange rate between EURO and the currency in which the prices are quoted. If any delay in delivery of the Products occurs through the fault of the Client, any possible increase in the price of the Products which may have occurred since the confirmation of the order relating to the Products shall be borne solely by the Client.

4.2 Unless otherwise agreed in writing by FAAC and the Client, the prices of the Products included in the FAAC's price list and/or in the Contracts are net of VAT.

5. PAYMENT

5.1 Except as otherwise agreed in writing, payment for all Products shall be effected by means of:

(A) An irrevocable letter of credit ("**L/C**"), confirmed by a primary Italian bank, in compliance with publication 500 of the International Chamber of Commerce as updated from time to time, and valid for at least 30 days from the anticipated date of final delivery; or in alternative, (B) a bank wire transfer with full amount covered by stand by L/C, subject to U.C.P. 1993, confirmed by a primary Italian Bank, in compliance with publication 500 of the International Chamber of Commerce as updated from time to time, and expiring date at least 180 days from the date of final delivery.

5.2 Delivery of the Products is conditional upon the issuing of the above L/C's or the payment of the price by any other means, which may have otherwise been authorised in writing by FAAC. Regardless of the means of payment agreed upon, it is understood that payments shall be deemed to have been effected at FAAC's place of business.

5.3 Under no circumstance shall the Client be entitled to suspend and/or delay payment of the Products or raise any claim in relation thereto until full payment has been made. In the event of any payment, FAAC shall be entitled to exercise its right provided under the laws in force in Italy in relation to late payment in commercial transaction, without prejudice to its right to seek any further damages. In any event, FAAC may, (i) terminate the Contract in relation to the Products not yet delivered and/or (ii) delay the carrying out of any order in hand, inter alia, by suspending delivery of the Products until such time as all outstanding debts owed by the Client to FAAC have been paid.

6. OTHER EXPENSE AND DUTIES

6.1 Unless otherwise agreed between FAAC and the Client, the price applied to any sale of Products are for delivery "FCA" (in accordance to the most recent edition of the ICC's Incoterms), therefore FAAC shall not enter into any shipment or transportation agreement and shall not insure the Products, unless the Client should so expressly instruct FAAC in writing, being understood in any event that any and all risk and expenses in relation thereto shall be borne exclusively by the Client.

6.2 The Client agrees promptly to collect the Products upon receiving notice that the Products are ready and at its disposal and, in any event, within 8 (eight) days of the date of said notice. In any event the transfer of the risk and the payment terms shall run as of the date of the notice that the Products are ready or, in the absence thereof, as of the date of delivery.

6.3 Any and all taxes, duties, levies, licenses, authorisation, permits and any and all tax and administrative formalities relating to the importation and/or resale of the Products shall be borne and carried out exclusively by the Client or, alternatively, they may be carried out by FAAC at the Client's sole risk, expense and responsibility.

7. DELIVERY

7.1 All the delivery dates given by FAAC shall be deemed as indicative, not binding and are expressed in working days. Being understood the above, FAAC shall use reasonable endeavour to effect delivery within 30 (thirty) working days from the execution of the Contract. In any event of late delivery, the Client shall not be entitled to cancel the Contract or to any compensation for damages of whatever nature. The Client by collecting any Products which may have been delivered late, waives any and all rights in relation to said delay.

7.2 Unless otherwise agreed between FAAC and the Client, the Products shall be delivered "FCA" (in accordance to the most recent edition of the ICC's Incoterms).

8. PACKING

8.1 Standard packing of the Products suitable for air, land and sea transportation in container will be provided by FAAC free of charge. If the Client requires any special packing, the full cost of said special packing shall be invoiced by FAAC to the Client.

9. QUALITY STANDARDS

9.1 FAAC does not represent or guarantee the Client that the Products comply with the applicable laws and regulations in force in the country where the Client is established or where the Products are to be sold and/or delivered and/or installed. FAAC shall have no obligation to modify the Product in compliance with said laws or regulations and the Client shall be solely responsible for ensuring that the Product and any services of the Client conform to the applicable technical and safety standards, laws, and regulations in force in that country.

9.2. The Client, moreover, acknowledges that the Products may be dangerous to persons or property when not installed or not used in strict compliance with the instructions for installation and use supplied by FAAC and with the safety requirements specified in the EN 12445 and EN 12453. FAAC expressly disclaims liability for any personal injury or property damage resulting from installation or use of the Products, other than in strict compliance with FAAC's written instructions with respect to installation and use, or from installation or use of the Products together with safety accessories or other Products not manufactured by FAAC, being understood that the maximum liability of FAAC to the Client arising out of or in connection with the Product and based on a claim of breach or under the warranty, shall in no case exceed the price paid to FAAC for the Product which gives rise to the claim and, therefore, in no event FAAC shall not be liable also for special and consequential damages including, without limitation, loss of profits and indirect damages.

10. WARRANTY

10.1 FAAC warrants and guarantees to the Client that all new Products INCLUDED IN THE TUBULAR MOTOR RANGE shall be free from manufacturing defects, under normal use and service, for a period of 5 (five) years from the manufacturing date (as shown on the tag plate of each Product), when available (the "**Warranty Period Tubular Motor**"). The Client acknowledges and agrees that FAAC's warranty is expressly limited to manufacturing defects and that said warranty shall not extend to any damage to the Products resulting from other causes, including, without limitation, misuse, transportation, or faulty installation thereof. The maximum liability of FAAC to the Client, arising out of or in connection with the Products and based on a claim of breach or repudiation of warranty, shall in no case exceed the price paid to FAAC for the Product(s) in question and, in addition, FAAC shall not be liable for special and consequential damages including, without limitation, loss of profits and indirect damages. Should FAAC be in breach of its representation and warranty under this clause 10.1, FAAC's entire liability and the Client's exclusive remedy shall be the repair or replacement of the defective part Product free of charge at FAAC's own workshop, unless otherwise agreed in writing between FAAC and the Client. The Client shall send the part to be repaired or replaced, free of charge, and FAAC shall examine said part to determine whether it is defective and whether the manufacturer is responsible for the defect; in which case only FAAC shall repair or replace

the part, in its sole discretion, and shall send the repaired or replacement part to the Client, who shall bear the cost of transportation and installation only. Any Products which may have been returned without FAAC's written authorisation shall not entitle the Client to any credit notes or reimbursement. In any event, any and or risk and expenses relating to the return of the Products shall be born exclusively by the Client. Any claims relating to the defects of the Products must be sent to FAAC by registered letter with return receipt requested within 8 (eight) days following the date of delivery in the case of patent defects and 8 (eight) days following the date of discovery in the case of latent defects and in any event, within the Warranty Period Tubular Motor, failing which the Client shall lose all right to bring any claim in relations thereto. The non-consumer Client waives the right of recourse against FAAC under Art. 1519 quinquies of the Italian Civil Code. Any and all further or other warranties, be they expressed or implied, including without limitation any warranties provided by law, shall be deemed excluded and superseded by these General Conditions. FAAC further disclaims all expressed, statutory, or implied warranties applicable to Products and accessories which are not manufactured by it.

10.2 FAAC warrants and guarantees to the Client that all new Products INCLUDED IN THE PRODUCT RANGES OTHER THAN THE ONE INDICATED IN PARAGRAPH 10.1 ABOVE shall be free from manufacturing defects, under normal use and service, for a period of 24 months from the date of installation of the Products or 30 months from the manufacturing date (as shown on the tag plate of each Product), when available (the "**Warranty Period for Products other than Tubular Motor**"). The Client acknowledges and agrees that FAAC's warranty is expressly limited to manufacturing defects and that said warranty shall not extend to any damage to the Products resulting from other causes, including, without limitation, misuse, transportation, or faulty installation thereof. The maximum liability of FAAC to the Client, arising out of or in connection with the Products in question and based on a claim of breach or repudiation of warranty, shall in no case exceed the price paid to FAAC for the Product(s) in question and, in addition, FAAC shall not be liable also for special and consequential damages of the Client including, without limitation, loss of profits and indirect damages. Should FAAC be in breach of its representation and warranty under this article 10.2, FAAC's entire liability and the Client's exclusive remedy shall be the repair or replacement of the defective part Product free of charge at FAAC's own workshop unless otherwise agreed in writing between FAAC and the Client. The Client shall send the part to be repaired or replaced, free of charge, and FAAC shall examine said part to determine whether it is defective and whether the manufacturer is responsible for the defect; in which case only FAAC shall repair or replace the part, in its sole discretion, and shall send the repaired or replacement part to the Client who shall bear the cost of transportation and installation only. Any Products which may have been returned without FAAC's written authorisation shall not entitle the Client to any credit notes or reimbursement. In any event, any and or risk and expenses relating to the return of the Products shall be born exclusively by the Client. Any claims relating to the defects of the Product in question, must be sent to FAAC by registered letter with return receipt requested within 8 (eight) days following the date of delivery in the case of patent defects and 8 (eight) days following the date of discovery in the case of latent defects and in any event, within the Warranty Period for Products other than Tubular Motor, failing which the Client shall lose all right to bring any claim in relations thereto. The non-consumer Client waives the right of recourse against FAAC under Art. 1519 quinquies of the Italian Civil Code. Any and all further or other warranties, be they expressed or implied, including without limitation any warranties provided by law, shall be deemed excluded and superseded by these conditions. FAAC further disclaims all expressed, statutory, or implied warranties applicable to Products and accessories which are not manufactured by it.

11. TITLE

11.1 Title to the Products shall pass to the Client only upon payment in full of the sale price of the Products. In the event of default by the Client, FAAC shall be entitled, without any formalities, including notice of default, to repossess all of the Products with respect to which title has not yet passed to the Client, wherever said Products may be; in addition, FAAC reserve the right to seek any other judicial remedies available to it in respect of the damages suffered.

12. PRIVACY

12.1 Under the clause 13 of the del Regulation (UE) 2016/679, FAAC, as data controller (hereinafter, the "Data Controller"), inform the Client that all the data disclosed by the Client in the performance of the Contract which is personal shall be processed according to such Regulation 2016/679 and, therefore, declare as follows: (a) the processing of data will be carried out, in compliance with such Regulations, by means of paper, computer or telematic means capable of storing, managing, transmitting the data itself, however by means of suitable means to guarantee their security and confidentiality; (b) the objective of the processing will be related and instrumental to the conclusion, management and execution of the General Conditions and the Contracts and for any administrative and accounting purposes connected with them (for example, but not limited to, handling of orders and invoices, drafting contracts including credit insurance; assignment of claim agreement; transportation and/or shipment agreement; etc.); for marketing purposes related to similar products to those already acquired, because it is a lawful interest of FAAC (under clause 6, Regulation 2016/679); for purposes related to the enforcement of legal obligations, regulations, Italian and UE regulations, as well as to order of competent Authority; (c) the transfer of the data is mandatory for all that is required by legal and contractual obligations and therefore any refusal by the Client to communicate the data or to enable it to be processed subsequently may cause the impossibility for FAAC to give rise to the obligations of the Contract; the transfer is discretionary for marketing activities; (d) the data will not be disclosed, but can be communicated exclusively for the above purposes, to the appropriate authorized persons for which will be necessary to make such communication for the purposes set out in the above letter (b), such as the other companies in the group to which FAAC belongs; (e) the Client has the right to access to its personal data, emend, cancel, limit the processing, to oppose, in addition to the right to portability, by submitting formal requests directly to the Data Controller; the Client has also the right to make a claim to the supervisory Authorities; (f) the data will be stored for commercial and marketing purposes for all the duration of the commercial relationship between FAAC and the client; after for the sole law's purpose; (g) the data controller is FAAC, Via Calari n. 10, Zola Predosa, Bologna – Italy.

13. FORCE MAJEURE

13.1 FAAC shall not be liable or reasonable to the Client for any failure or delay in performing of fulfilling any obligations undertaken in reference to the supply of the Product when such failure or delay is caused by occurrences beyond FAAC's reasonable control, or in any case caused by an event of force majeure, including, but not limited to, late delivery or non-delivery of materials by suppliers, strikes and other trade union actions, terrorist activities, suspension of electrical energy or difficulties in transportation. In the event of such events, the activities which cannot be performed, shall be automatically postponed, without any penalty for FAAC, for a period equal to the situation of force majeure.

14. APPLICABLE LAW AND DISPUTE RESOLUTIONS

14.1 Any Contract to which FAAC is a party shall be governed by the laws of Italy, excluding the Vienna Convention of 1980 relating to contracts for the international sale of goods. Any and all dispute arising out of or relating to the sale of Products by FAAC shall be resolved exclusively by the Court of Bologna, Italy. Notwithstanding the foregoing, FAAC may bring an action against the Client in any country having jurisdiction over the Client.

15. OTHER

15.1 The invalidity or unenforceability of any provision, or portion thereof, of this General Conditions shall not affect the validity or enforceability of any other provision.

15.2 Any failure by FAAC to enforce any of its rights under this General Conditions shall not be construed as a waiver of said rights.

15.3 This General Conditions supersedes any prior agreement, whether written or oral, between FAAC and the Client, with respect to the subject matter.

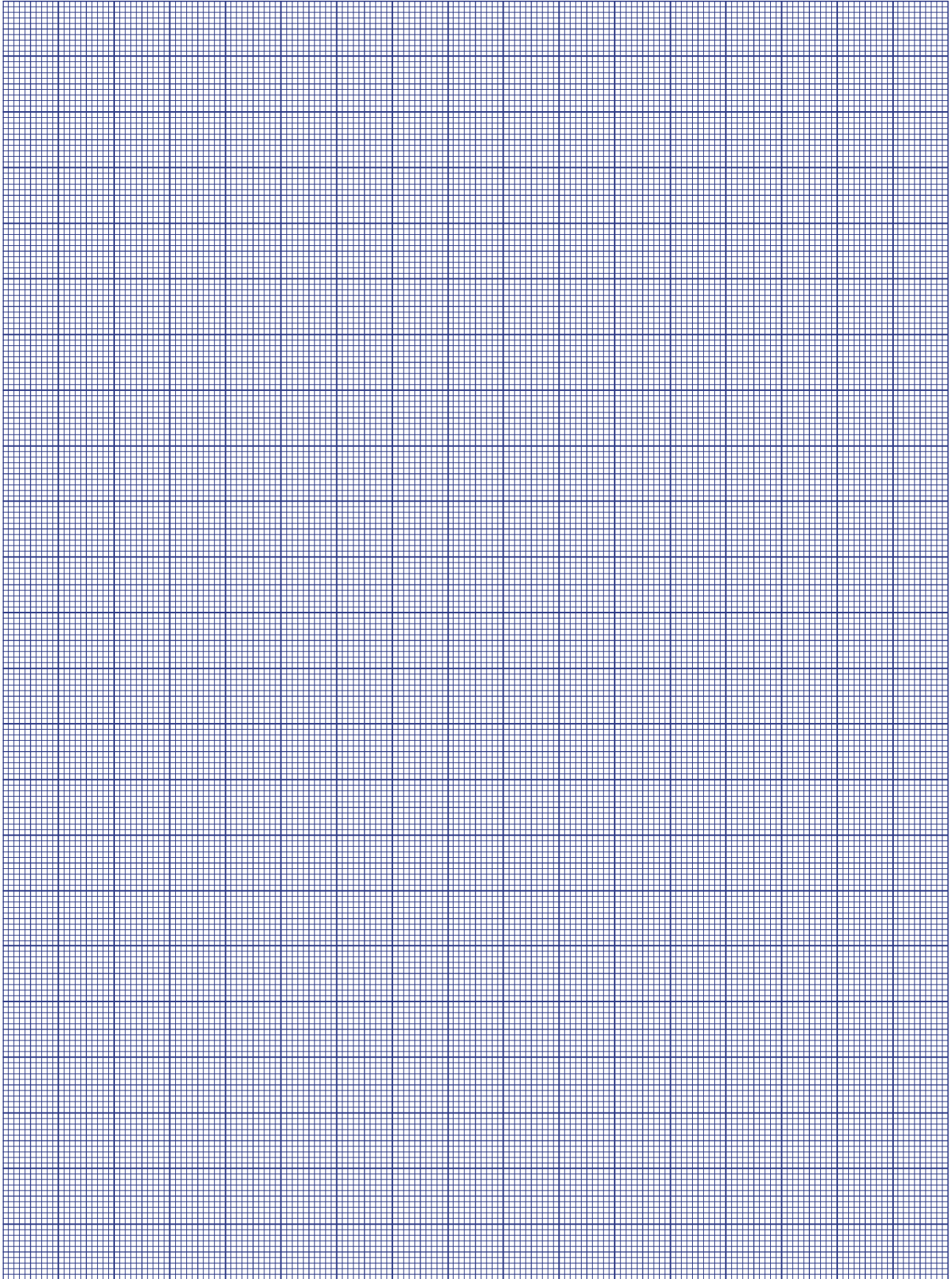
15.4 Any amendment to this General Conditions shall be effective only if made in writing and duly signed by the FAAC and the Client.

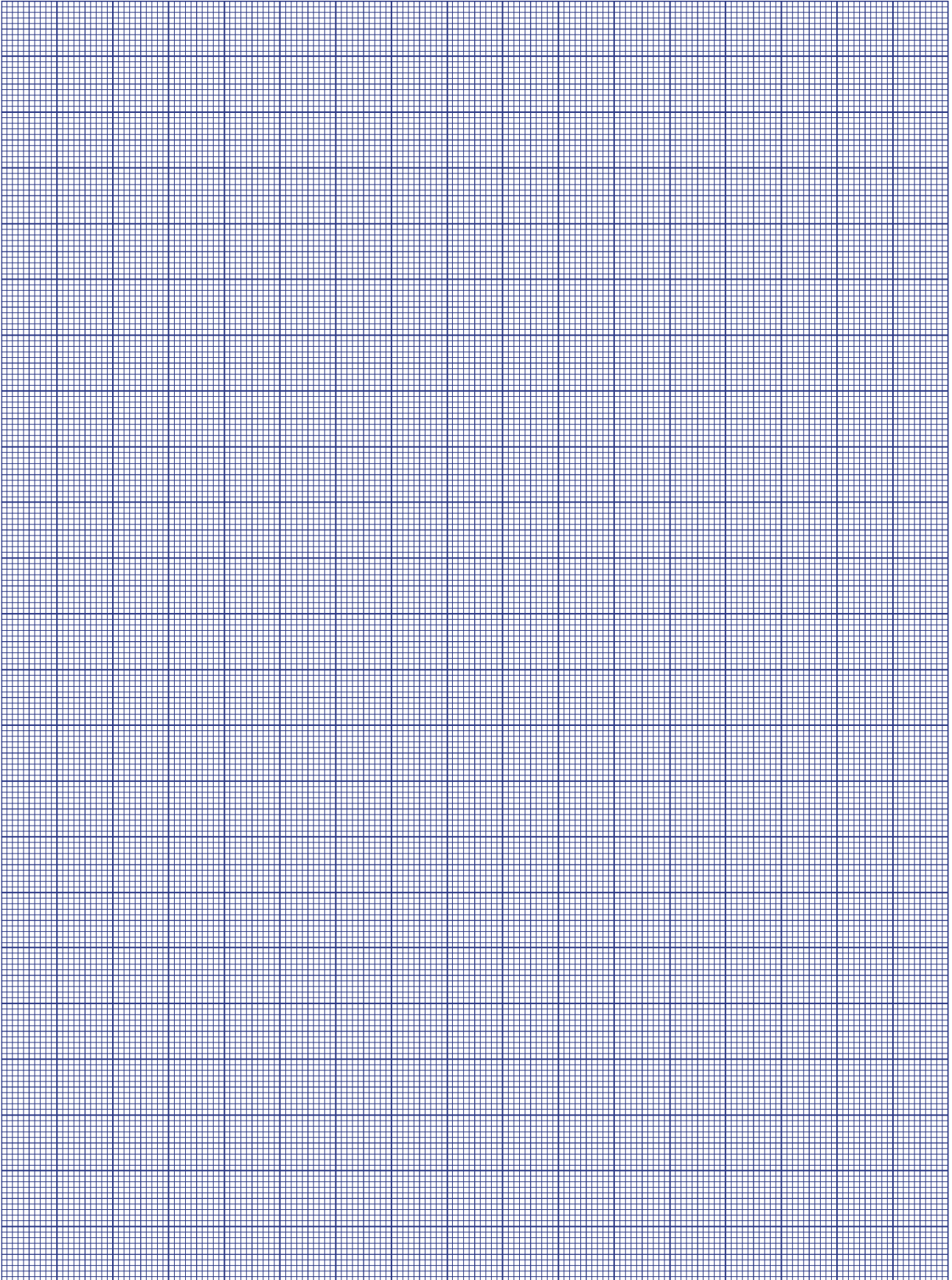
15.5 FAAC has implemented a Code of Ethics which is available on web site of FAAC www.faac.it or www.faacgroup.com and which the Client accepts to respect in each party.

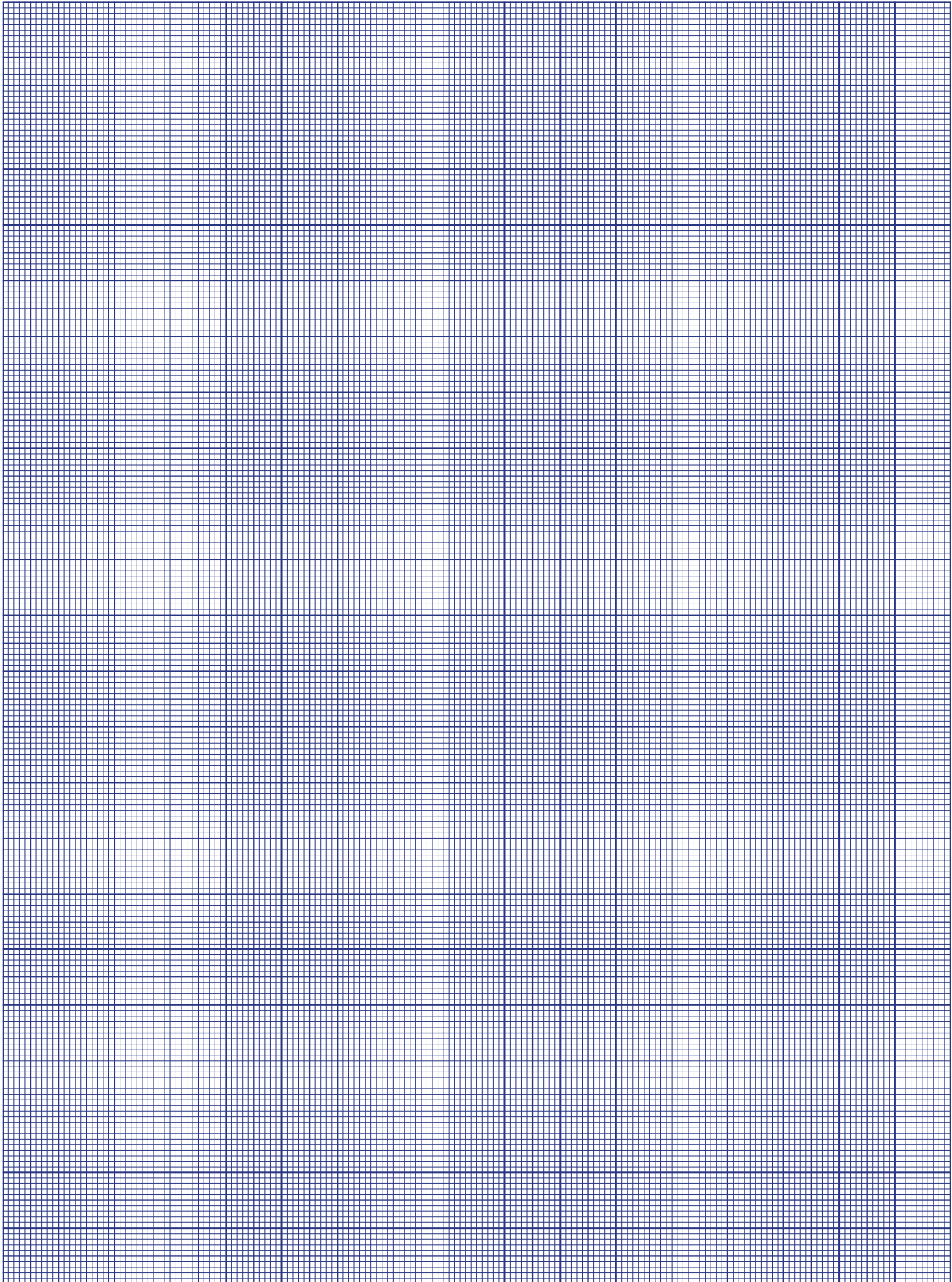
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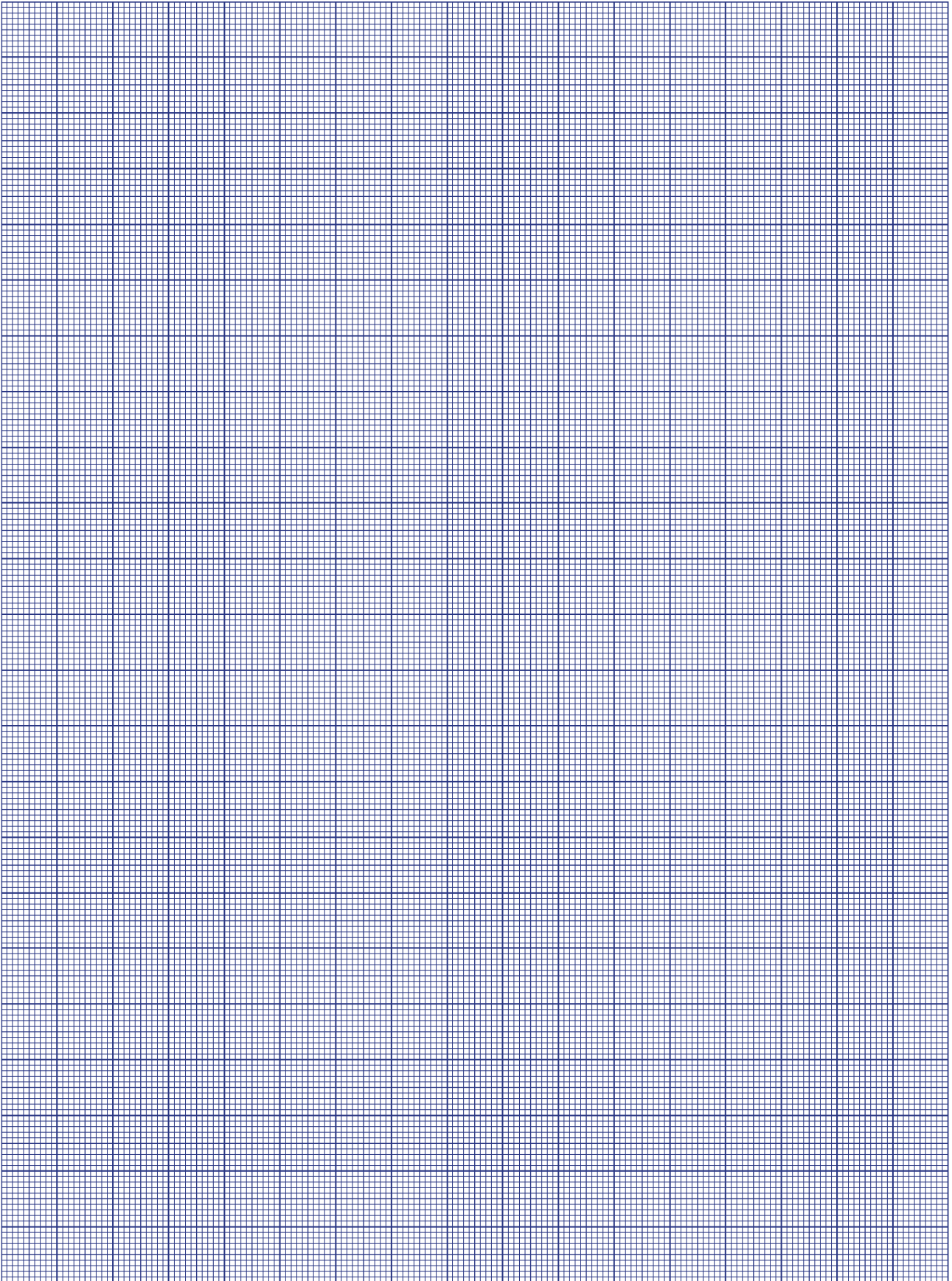
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