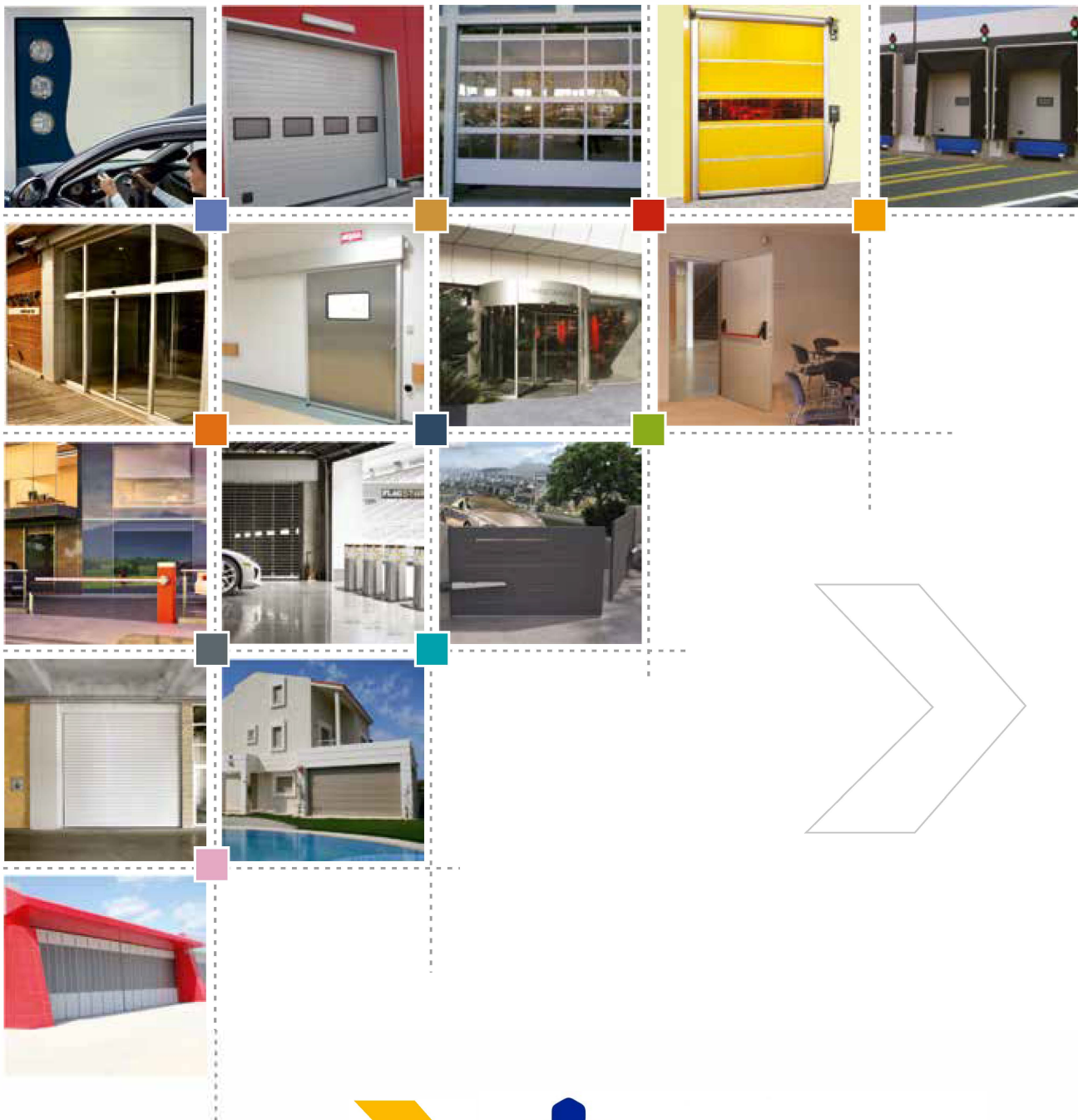




GOXU
— World Wide Open —

CONTENTS

PAGE

GARAGE DOORS	4
Sectional Garage Doors	5
COMMERCIAL & INDUSTRIAL DOORS	12
Sectional Industrial Doors	13
Sectional High Speed Doors	20
Sectional Fire Rated Doors	24
Sliding And Folding Industrial Doors	28
HIGH SPEED PVC DOORS	34
EASY PASSAGE DOORS	48
FLIP-FLAP DOORS	49
HANGAR DOORS	50
Telescopic Doors	52
Side Folding Doors	54
Side Sliding Doors	56
Fold-up Doors	58
Bi-Fold Doors	60
DOCK LEVELERS	62
DOCK SHELTERS	76
AUTOMATIC DOORS	86
Sliding Doors	87
Telescopic Doors	94
Hospital Doors	95
Revolving Doors	99
ROLLING SHUTTERS	102
Fire Rated Rolling Shutters	106
Rolling And Sliding Shutter	113
WINDOW SHUTTERS	116
FIRE RATED DOORS	124
Fire Rated Leaf Doors	125
Glass Fire Rated Doors	129
Smoke & Fire Curtains	131
GATE AUTOMATION	134
Cantilever Gate Operator	135
Bollards	140
Roadblocker	146

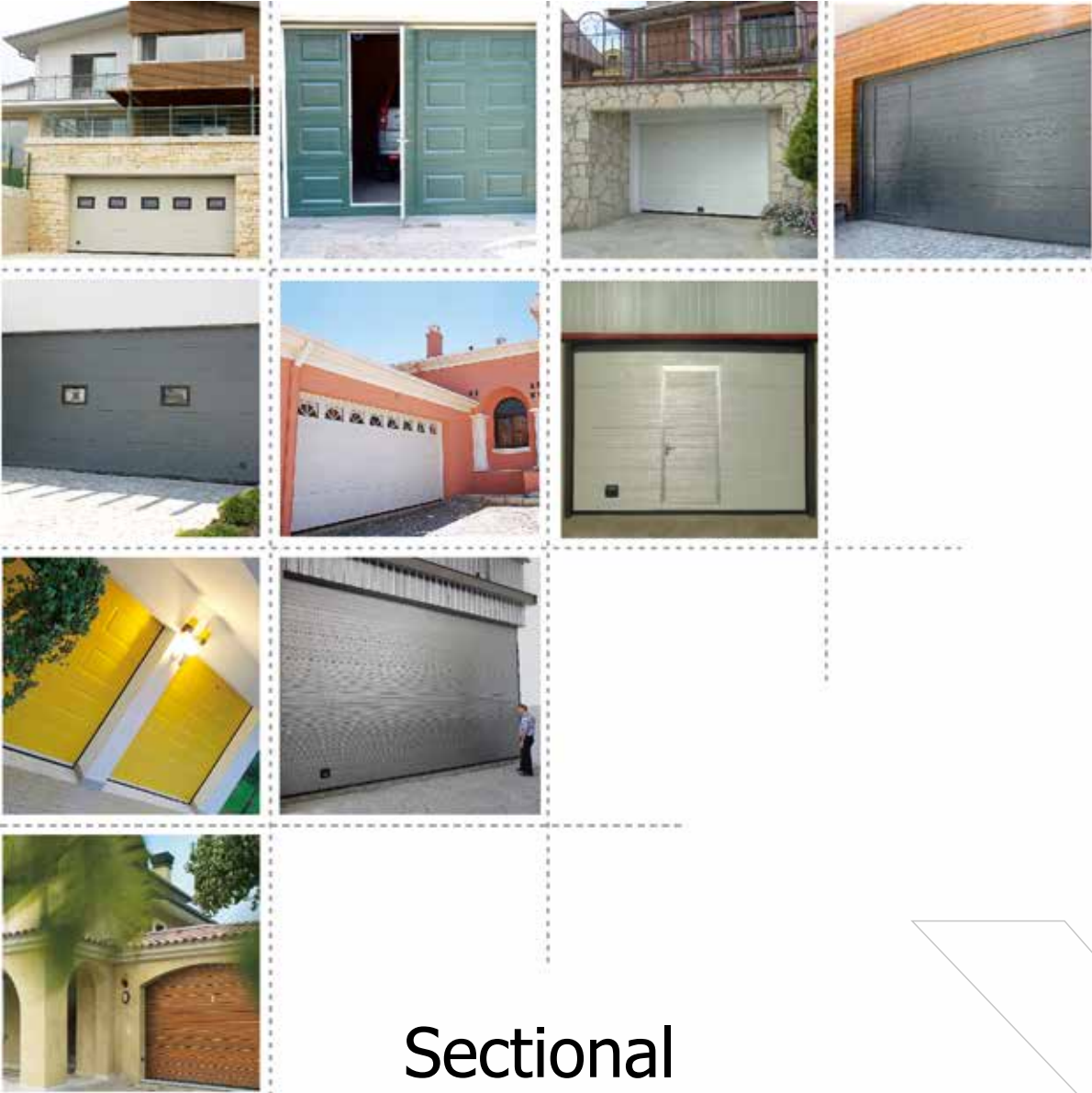


Always ahead!

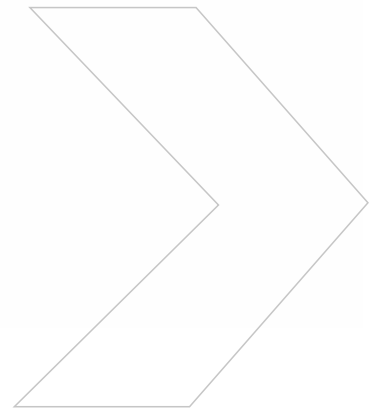
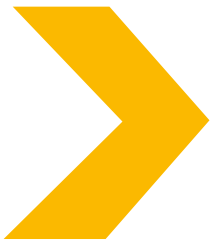
in residential, commercial and industrial
automatic door business

with our **30 years** of experience...





Sectional Garage Doors



home, sweet home...

home is where you feel most comfortable, secure and peaceful.

*all the construction elements including the “garage door”
should supplement and support this comfort and security.*



home is enjoyable...

your home reflects

your life style and character



Standard Colours

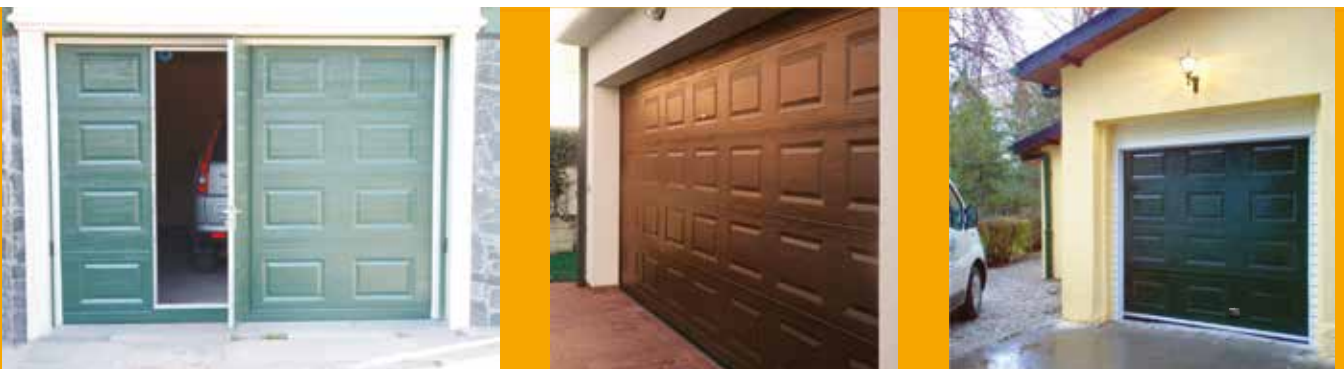
	RAL 9010 - 4010 Panel
	RAL 9002 - 4011 Panel
	RAL 9006 - 4011 Panel
	RAL 7016 - 4011 Panel
	RAL 3020 - 4011 Panel
	RAL 1018 - 4011 Panel
	RAL 5005 - 4011 Panel

Optional Colours



All RAL colours are applicable except fluorescent colours

*Various colour and panel choices
for your preferences and requirements*



Panel Options



Cassette Panel
Wood Grain
Surface



Ribbed Panel
Wood Grain
Surface



Wood looking
Cassette Panel
Wood Grain Surface



Wood looking
Grooved Panel
Wood Grain Surface



Wood looking Panel
with one line
Smooth Surface



Smooth Panel

Composition of Panel



Reinforcement Sheet
for Hinge Installation

Polyurethane Foam
(40kg/m³)

Outside of Panel

Inside of Panel

Steel Sheet Support
for Hinge Installation

Sponge seal



Panel Construction with
Finger-Protection Feature

Painted Panel Exterior Surface
Structure

Steel

Galvanise

Galvanise

Primer

Primer

Powder Coat





home is safe...

*everything remains outside
once you step in and shut the door.
now you are safe...*



Door Handles



Surface-Mounted



With Door-Lock

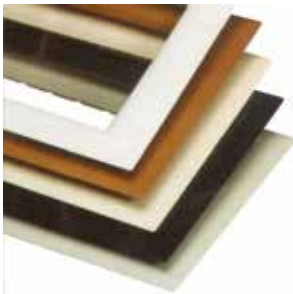


With Side Lock

*Solutions for security, comfort,
insulation and easy usage*



Windows



Colour Choices for
Window Frames

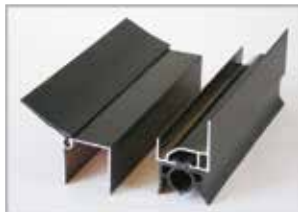


Pattern Choices for Window Frame



Stainless Steel Window

Insulation Solutions



Torsion Spring



Powder Coated,
Shotpeened (Standard)

Safety Devices



Spring Break Safety Device



Cable Break Safety Device

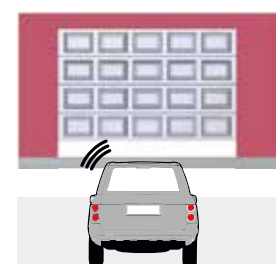
Automation



Remote Control



Access System



Vehicle Recognition System



home is comfortable...

*you are alone with yourself and your favorites
at a place which belongs to you*



Track Assembly Choices



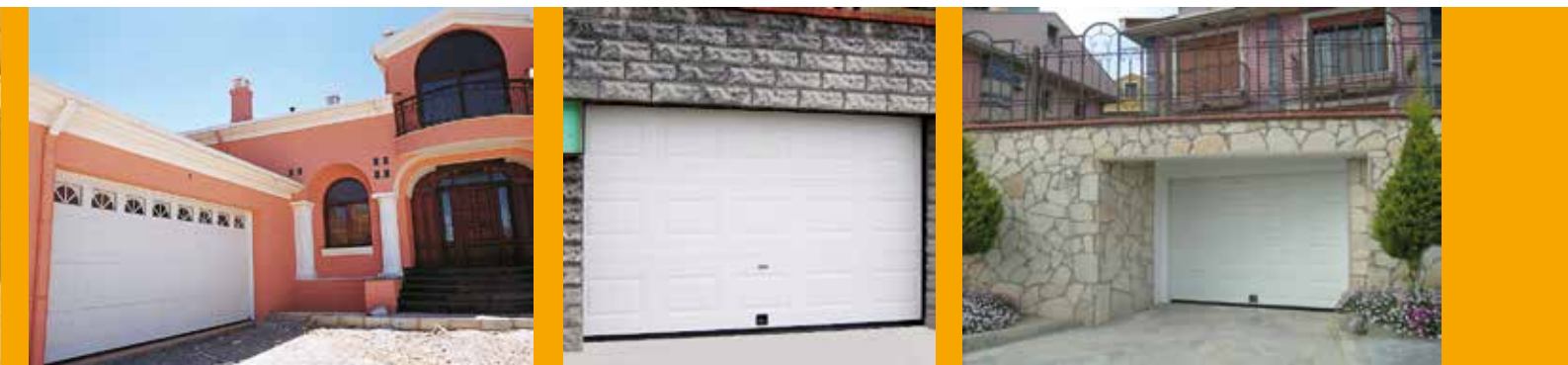
- Galvanized (Standard)
- Stainless Steel (Optional)
- Powder-Coated (Optional)



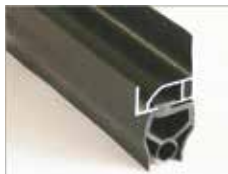
Vertical suspension
profile application
(Optional)



*Suitable solutions for different lintel,
wall and construction types*



Insulation Solutions



Bottom Insulation seal



Upper insulation seal



Finger Protection for roller
(Optional)

Wicket Door Options



Low-Threshold Wicket Door

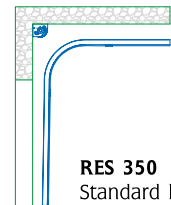


External wicket door

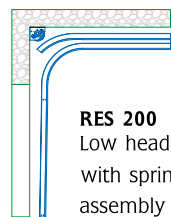


Wicket door incorporated

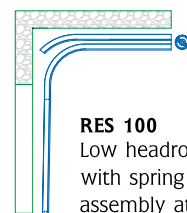
LIFTING TYPES



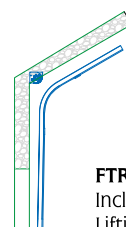
RES 350
Standard lift



RES 200
Low headroom lift
with spring
assembly at front



RES 100
Low headroom lift
with spring
assembly at rear



FTR
Inclined Standard
Lifting



Sectional Industrial Doors

- Sandwich Panel Doors
- Fullvision Doors





*business requires
productivity...*

*the path to success passes through
selection of correct partners and correct preferences*



Standard Colour

	RAL 9002 - 4011 Panel
	RAL 9006 - 4011 Panel
	RAL 7016 - 4011 Panel
	RAL 3020 - 4011 Panel
	RAL 1018 - 4011 Panel
	RAL 5005 - 4011 Panel

Optional Colours



All RAL colours are
applicable except
fluorencent colours

*Various panel and door choices
for time and money saving*



Panel Options



Finger-Protection
Panel



Aluminium Panel



Microwave Panel



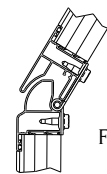
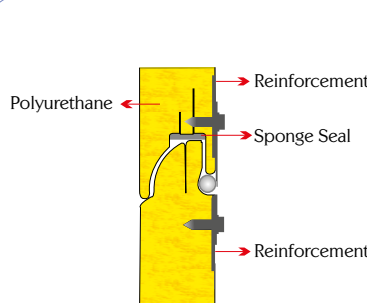
Smooth Panel



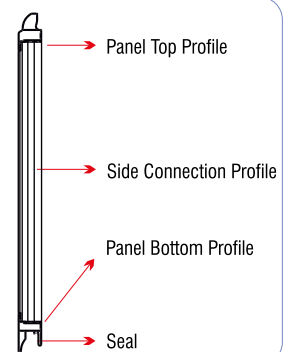
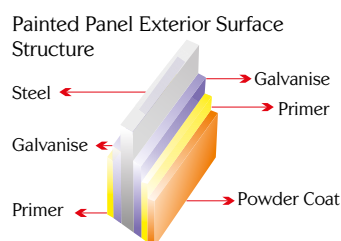
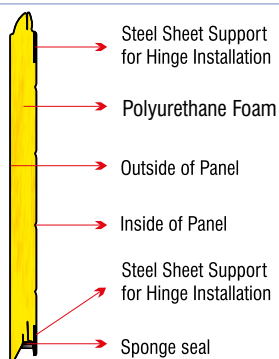
Fullvision Panel



Finger-Protection
Panel Structure



Finger-Protection
Full Vision
Panel Structure



business requires safety...

*work place safety as well as
trust in yourself and in your partners,
are the key concepts.*



Safety Devices



Spring Break Safety Device

*Safety is not
an option
but a standard*

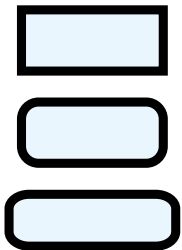
Cable Break Safety Device



*Solutions for security, productivity,
insulation and easy usage*

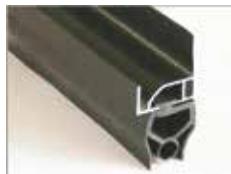


Windows



Rectangular Windows

Insulation Solutions



Bottom Weatherseals



Top Weatherseals



Side Weatherseals

Door Handles



Slide Bolts



Switching

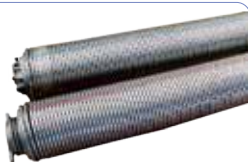


Manual Switching



Motorized Switching

Torsion Springs



Painted (Standard)

Entry Control Choices



Radar

Push-button

Pull Cord

Remote
Control

Magnetic
Loop

Photocell

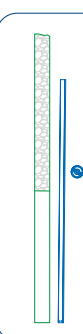
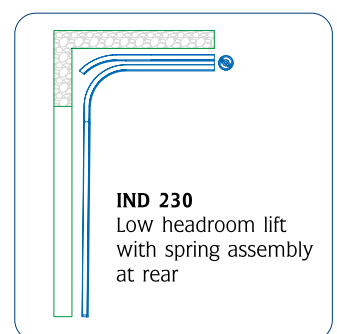
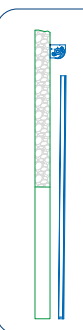
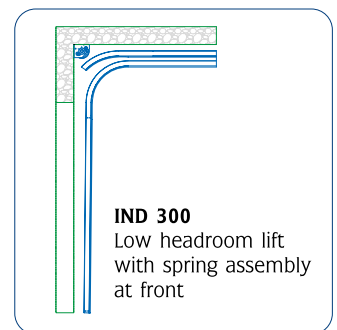
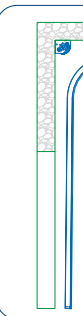
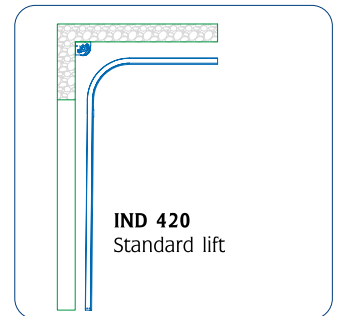
Pano





business seeks solutions...

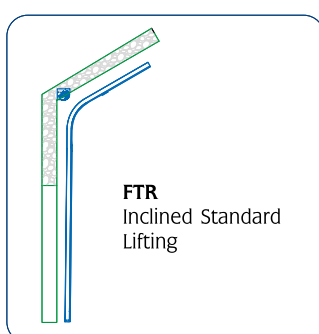
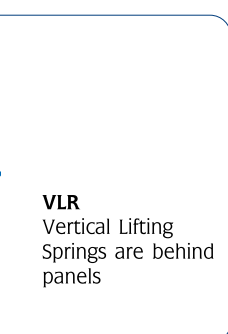
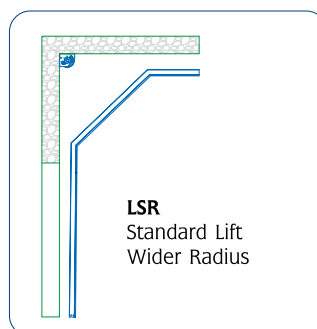
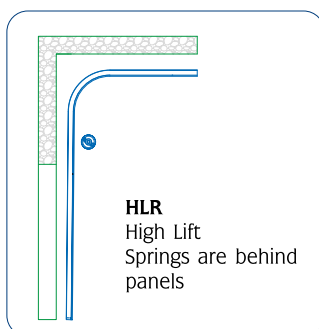
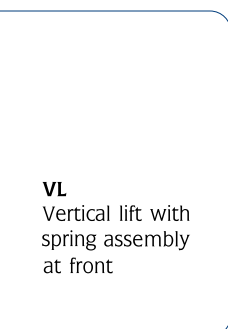
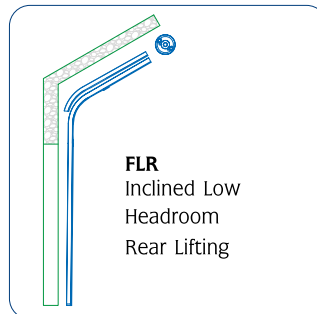
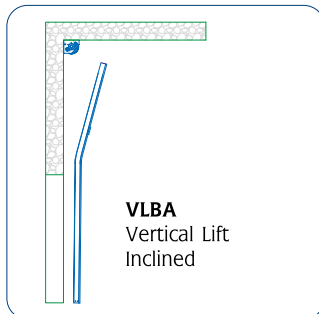
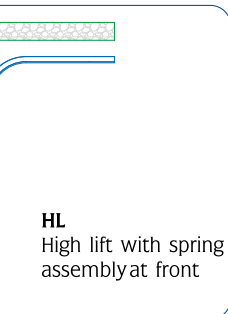
*business must find the best solutions
not only for customers but also for itself*



*Suitable solutions for all sectors and requirements
and for various construction types*



LIFTING TYPES

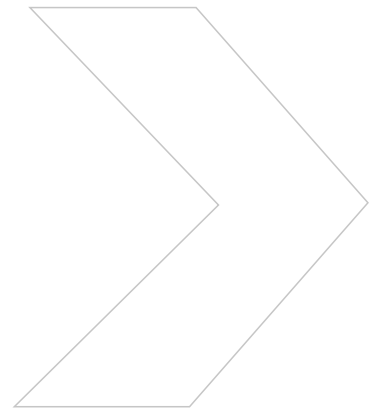
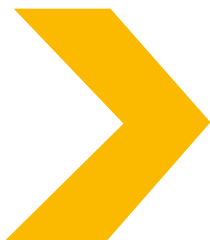


Wicket Door





High Speed Sectional Doors



*Speed, insulation, visibility!
All in one*

“Turbo High Speed Doors”

fulfill all your expectations...





TURBOROLL



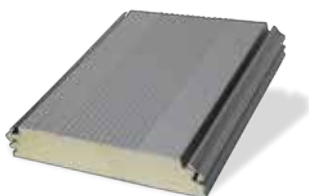
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New Level in speed and insulation



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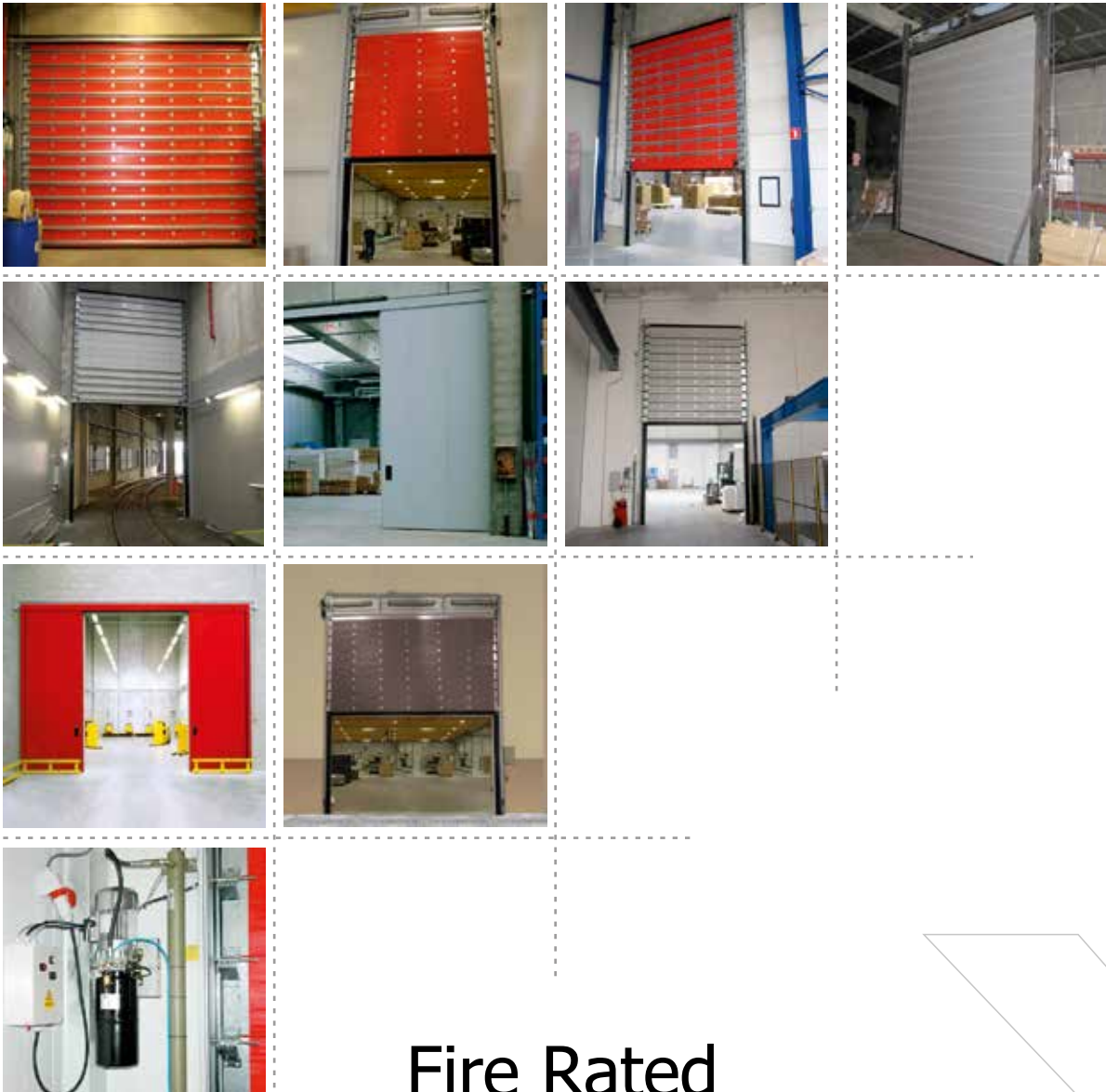
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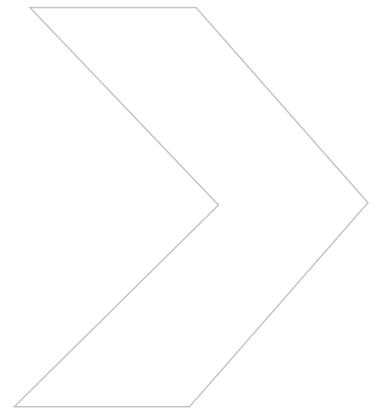
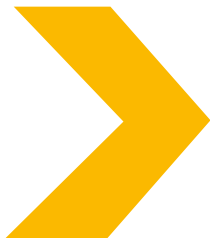
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Fire Rated Sectional Doors



Hit multiple birds with one stone!

“Sectional fire rated doors”

*provide good insulation, fast and
silent operation where as protect you against fire.*



SECTIONAL FIRE RATED DOOR

t!b9[/h[hw

DNI-è



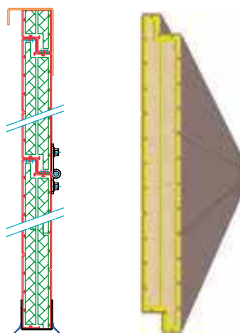
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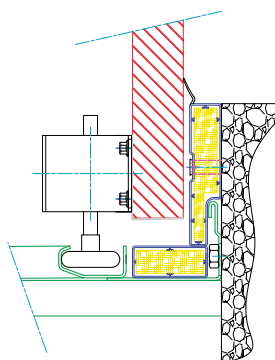
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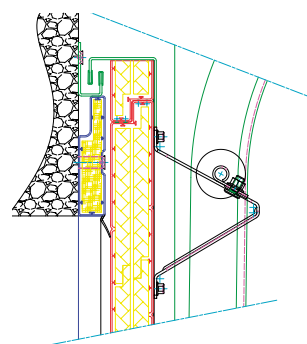
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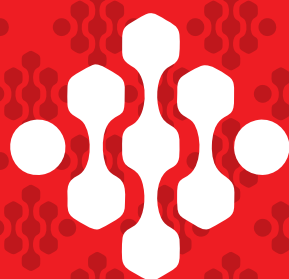
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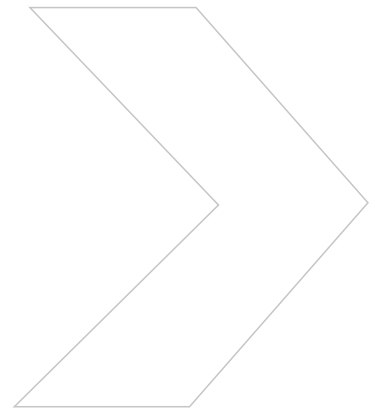
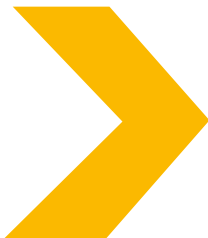
OTAC

www.otac-fr.com



Side Mooving Industrial Doors

- Side Folding Doors
- Side Sectional Doors



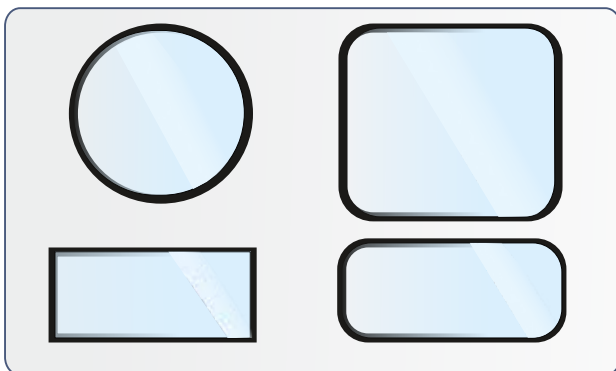
*Look at your needs
with alternative eyes!*
“side mooving doors”
provide you alternative solutions...



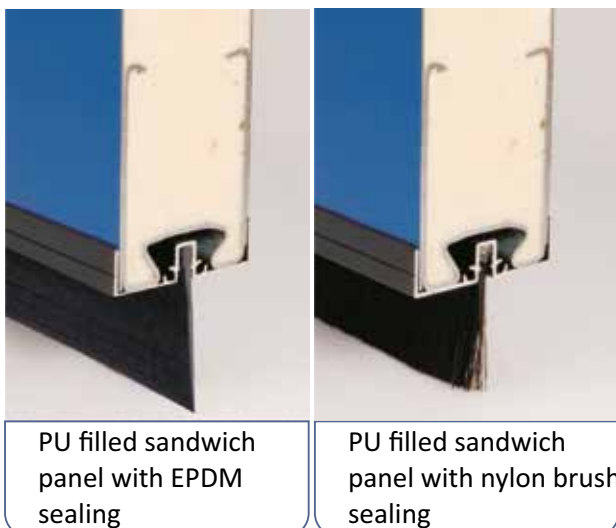
SIDE FOLDING & SLIDING INDUSTRIAL DOORS



WINDOW ALTERNATIVES



BOTTOM SEALING ALTERNATIVES

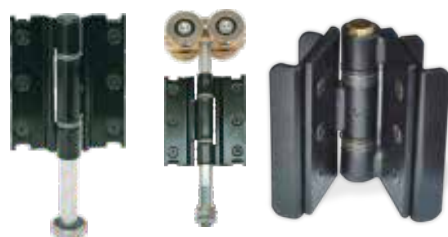


both high and

optimum width



HINGE GROUP



Surface mounted
bottom locking
guide (AT model)



Embedded type
ground track
(LB model)

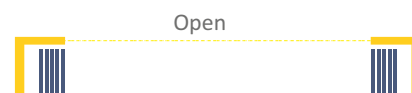
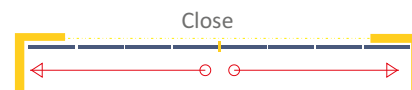


Upper carriage

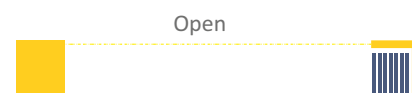
APPLICATION OPTIONS

1.SIDE FOLDING

Bidirectional, opens to both sides



Unidirectional



COLOUR OPTIONS

RAL 9016	RAL 9002	RAL 9006	RAL 7016
RAL 1018	RAL 3003	RAL 5007	RAL 5010
RAL 6005	RAL 8019		

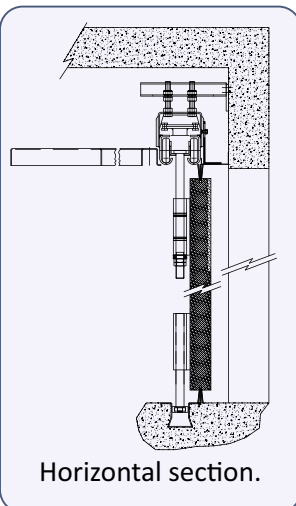
Polar LB. Industrial folding door with ground track.

The door leaves which are exclusively made of polyurethane foam filled sandwich panels are hanged on upper track. These doors provide ideal solution even for large openings and can be equipped with any kind of accessories. The system can be either manually or electrically operated.

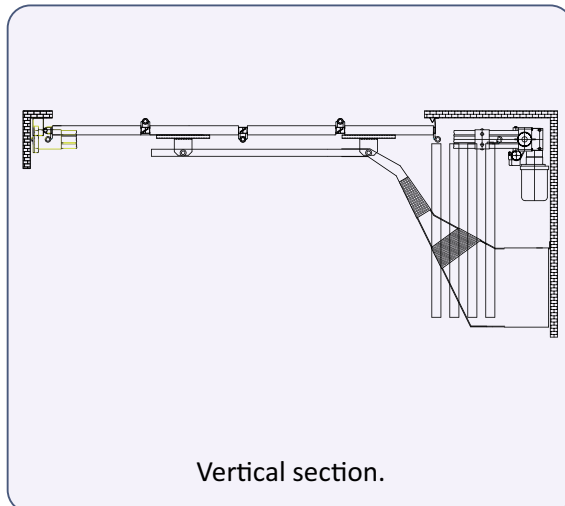
Hinges are fixed to door leaves with burglar proof system.



Motorized track unit for door.



Horizontal section.



Vertical section.

Polar AT. Industrial folding door without ground track.

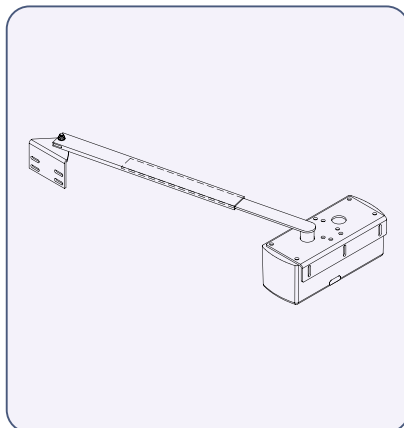
The door leaves which are exclusively made of polyurethane foam filled sandwich panels are hinged to lateral uprights and can easily be opened and closed. These doors provide best solution for medium-sized openings.

Hinges are fixed to door leaves with burglar proof system.

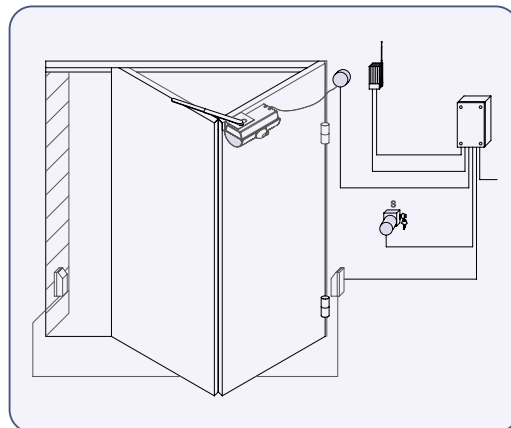
Detail of automation for double folding doors with 2 leaves.



Detail of the carriage with top deviator for 180 degrees rotation (Pat. Pend.).



Central joint with carriages for 180 degrees rotation (layout 2+2).



AUTOMATION FOR DOUBLE FOLDING DOORS WITH 2 LEAVES

Technical data VN.45E

Feed	V	230
Power	W	170
Absorbed current	A	0.85
Torque	Nm	300
Reduction ratio		0,0013
Insulation class		F

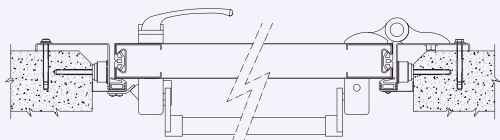
WICKET DOOR



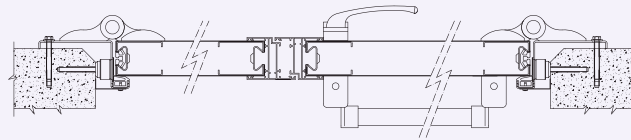
Pass door in addition to AT and LB models.



Detail of "cut leaf" without threshold.



Swing door with one leaf opening



Swing door with double leaf opening.

ACCESSORIES

Accessories. Available for all Polar Line models: AT, LB.

A wide range of accessories such as pass door, cut leaf, ventilation grill, locks, antipanic bar, control units and so on are available for all models of Polar Line.



"HG" windows, rectangular shape, rounded corners, EPDM black rim with anti-injury glass Visarm 8mm thickness.



"HV" windows, rectangular shape, sharp corners, EPDM black rim with anti-injury glass Visarm up to 19 mm thickness.



Cremone lock equipped with external handle with cylinder and key.

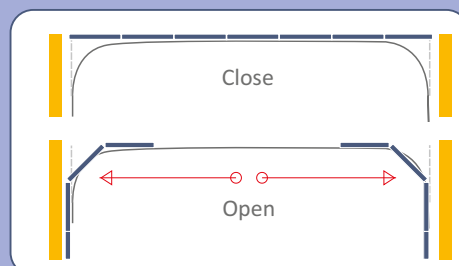


Aluminium ventilation grill.

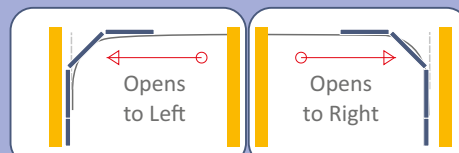
APPLICATION OPTIONS

2. SIDE SLIDING

Bidirectional, opens to both sides

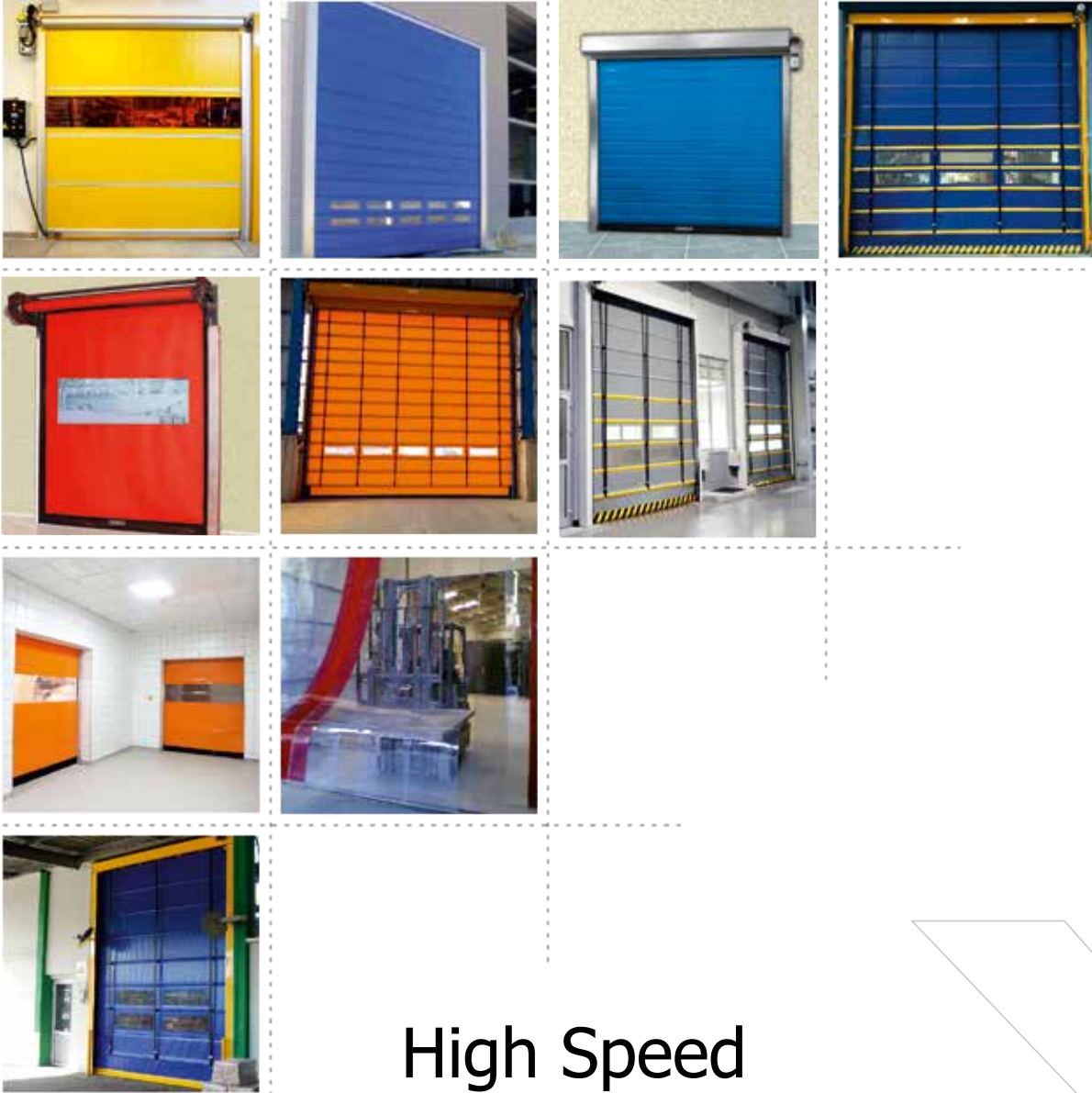


Unidirectional



COLOUR OPTIONS

RAL 9016	RAL 9002	RAL 9006	RAL 7016
RAL 1018	RAL 3003	RAL 5007	RAL 5010
RAL 6005	RAL 8019		



High Speed PVC Doors

- Roll-up PVC Doors
- Fold-up PVC Doors
- Cold Storage Room PVC Doors
- Zippered PVC Doors
- Push & Pull PVC Doors
- PVC Strip Doors
- PVC Flip-Flap Doors

*Let your door to keep
up with your speed...*

The right “High Speed Doors”

removes the barriers in front of you



ROLLER

ALUROLL

FOLDER

ZIPROLL

WINDROLL

TERMOROLL



ROLLER



Overhead Box & Motor Cover Options

- No Cover (Standard)
- Galvanized Steel (Optional)
- Electrostatic Painted Steel (Optional)
- Eloxal Aluminum (Optional)
- Stainless steel sheet
- Painted Aluminum (Optional)
- Stainless Steel (Optional)

Tarpaulin

- European sourced
- CE certified
- Panama type fabric with 900 gr/m²
- Non-flamable (optional)

PVC curtain Supportive Bars

- 2 mm 10x20 hidden steel box bars

Bottom Edge

- Hidden Ø25 Solid shaft with shock absorber
- Bar chamber made of double skin PVC curtain
- Edge shafts that allows easy repair against crush

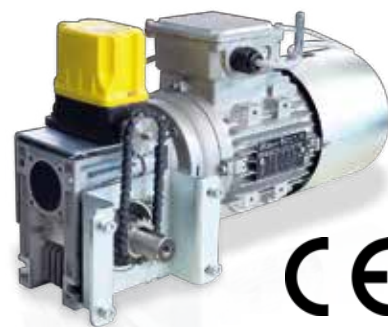


Shaft

- Aluminum extruded
- Ø140 mm.
- Vibration-free design



*Speed means
"efficiency"...*



Safety System Options

- Eye Photocell Reflected
- Photocell with Battery
- Gate Photocell
- Beam photocell
- Beam Photocell - Radar
- Cabled Pneumatic Photocell
- Cabled Optic Sensor
- Rod Photocell, moves with door

Side Guides

- Aluminum extruded
- Elegant outlook
- Made of 2-piece as frame and cover
- Easy to install with "Easy Click" system
- Hidden screwing with Led seal
- Hidden photocell channel
- Hidden cabling channel
- Double sealing alternative with rubber seal and brush seal

ELECTROFF Manual Opening Device (standard)



Optional

- Counter-weight System (With Manual or Automatic Opening)
- Inverter
- Interlock Connection
- Rope-Pull Switch Control System
- Motor Cover
- Manual Lock
- Reinforcement for high wind load
Standard Wind Resistance:
Class-1 (300 Pa, 80,5 km/h)
- Painted or Stainless Steel Metal Components

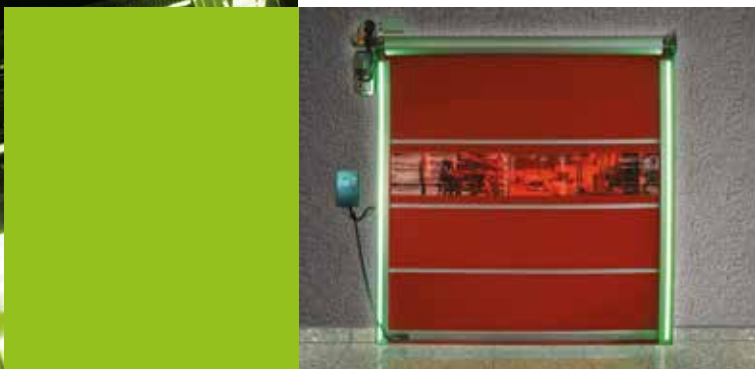
PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

±1000/1-1000/2-1000/3-1000/4-1000/5-1000/6-1000/7-1000/8-1000/9-1000/10-1000/11-1000/12-1000/13-1000/14-1000/15-1000/16-1000/17-1000/18-1000/19-1000/20-1000/21-1000/22-1000/23-1000/24-1000/25-1000/26-1000/27-1000/28-1000/29-1000/30-1000/31-1000/32-1000/33-1000/34-1000/35-1000/36-1000/37-1000/38-1000/39-1000/40-1000/41-1000/42-1000/43-1000/44-1000/45-1000/46-1000/47-1000/48-1000/49-1000/50-1000/51-1000/52-1000/53-1000/54-1000/55-1000/56-1000/57-1000/58-1000/59-1000/60-1000/61-1000/62-1000/63-1000/64-1000/65-1000/66-1000/67-1000/68-1000/69-1000/70-1000/71-1000/72-1000/73-1000/74-1000/75-1000/76-1000/77-1000/78-1000/79-1000/80-1000/81-1000/82-1000/83-1000/84-1000/85-1000/86-1000/87-1000/88-1000/89-1000/90-1000/91-1000/92-1000/93-1000/94-1000/95-1000/96-1000/97-1000/98-1000/99-1000/100-1000/101-1000/102-1000/103-1000/104-1000/105-1000/106-1000/107-1000/108-1000/109-1000/110-1000/111-1000/112-1000/113-1000/114-1000/115-1000/116-1000/117-1000/118-1000/119-1000/120-1000/121-1000/122-1000/123-1000/124-1000/125-1000/126-1000/127-1000/128-1000/129-1000/130-1000/131-1000/132-1000/133-1000/134-1000/135-1000/136-1000/137-1000/138-1000/139-1000/140-1000/141-1000/142-1000/143-1000/144-1000/145-1000/146-1000/147-1000/148-1000/149-1000/150-1000/151-1000/152-1000/153-1000/154-1000/155-1000/156-1000/157-1000/158-1000/159-1000/160-1000/161-1000/162-1000/163-1000/164-1000/165-1000/166-1000/167-1000/168-1000/169-1000/170-1000/171-1000/172-1000/173-1000/174-1000/175-1000/176-1000/177-1000/178-1000/179-1000/180-1000/181-1000/182-1000/183-1000/184-1000/185-1000/186-1000/187-1000/188-1000/189-1000/190-1000/191-1000/192-1000/193-1000/194-1000/195-1000/196-1000/197-1000/198-1000/199-1000/200-1000/201-1000/202-1000/203-1000/204-1000/205-1000/206-1000/207-1000/208-1000/209-1000/210-1000/211-1000/212-1000/213-1000/214-1000/215-1000/216-1000/217-1000/218-1000/219-1000/220-1000/221-1000/222-1000/223-1000/224-1000/225-1000/226-1000/227-1000/228-1000/229-1000/230-1000/231-1000/232-1000/233-1000/234-1000/235-1000/236-1000/237-1000/238-1000/239-1000/240-1000/241-1000/242-1000/243-1000/244-1000/245-1000/246-1000/247-1000/248-1000/249-1000/250-1000/251-1000/252-1000/253-1000/254-1000/255-1000/256-1000/257-1000/258-1000/259-1000/260-1000/261-1000/262-1000/263-1000/264-1000/265-1000/266-1000/267-1000/268-1000/269-1000/270-1000/271-1000/272-1000/273-1000/274-1000/275-1000/276-1000/277-1000/278-1000/279-1000/280-1000/281-1000/282-1000/283-1000/284-1000/285-1000/286-1000/287-1000/288-1000/289-1000/290-1000/291-1000/292-1000/293-1000/294-1000/295-1000/296-1000/297-1000/298-1000/299-1000/300-1000/301-1000/302-1000/303-1000/304-1000/305-1000/306-1000/307-1000/308-1000/309-1000/310-1000/311-1000/312-1000/313-1000/314-1000/315-1000/316-1000/317-1000/318-1000/319-1000/320-1000/321-1000/322-1000/323-1000/324-1000/325-1000/326-1000/327-1000/328-1000/329-1000/330-1000/331-1000/332-1000/333-1000/334-1000/335-1000/336-1000/337-1000/338-1000/339-1000/340-1000/341-1000/342-1000/343-1000/344-1000/345-1000/346-1000/347-1000/348-1000/349-1000/350-1000/351-1000/352-1000/353-1000/354-1000/355-1000/356-1000/357-1000/358-1000/359-1000/360-1000/361-1000/362-1000/363-1000/364-1000/365-1000/366-1000/367-1000/368-1000/369-1000/370-1000/371-1000/372-1000/373-1000/374-1000/375-1000/376-1000/377-1000/378-1000/379-1000/380-1000/381-1000/382-1000/383-1000/384-1000/385-1000/386-1000/387-1000/388-1000/389-1000/390-1000/391-1000/392-1000/393-1000/394-1000/395-1000/396-1000/397-1000/398-1000/399-1000/400-1000/401-1000/402-1000/403-1000/404-1000/405-1000/406-1000/407-1000/408-1000/409-1000/410-1000/411-1000/412-1000/413-1000/414-1000/415-1000/416-1000/417-1000/418-1000/419-1000/420-1000/421-1000/422-1000/423-1000/424-1000/425-1000/426-1000/427-1000/428-1000/429-1000/430-1000/431-1000/432-1000/433-1000/434-1000/435-1000/436-1000/437-1000/438-1000/439-1000/440-1000/441-1000/442-1000/443-1000/444-1000/445-1000/446-1000/447-1000/448-1000/449-1000/450-1000/451-1000/452-1000/453-1000/454-1000/455-1000/456-1000/457-1000/458-1000/459-1000/460-1000/461-1000/462-1000/463-1000/464-1000/465-1000/466-1000/467-1000/468-1000/469-1000/470-1000/471-1000/472-1000/473-1000/474-1000/475-1000/476-1000/477-1000/478-1000/479-1000/480-1000/481-1000/482-1000/483-1000/484-1000/485-1000/486-1000/487-1000/488-1000/489-1000/490-1000/491-1000/492-1000/493-1000/494-1000/495-1000/496-1000/497-1000/498-1000/499-1000/500-1000/501-1000/502-1000/503-1000/504-1000/505-1000/506-1000/507-1000/508-1000/509-1000/510-1000/511-1000/512-1000/513-1000/514-1000/515-1000/516-1000/517-1000/518-1000/519-1000/520-1000/521-1000/522-1000/523-1000/524-1000/525-1000/526-1000/527-1000/528-1000/529-1000/530-1000/531-1000/532-1000/533-1000/534-1000/535-1000/536-1000/537-1000/538-1000/539-1000/540-1000/541-1000/542-1000/543-1000/544-1000/545-1000/546-1000/547-1000/548-1000/549-1000/550-1000/551-1000/552-1000/553-1000/554-1000/555-1000/556-1000/557-1000/558-1000/559-1000/560-1000/561-1000/562-1000/563-1000/564-1000/565-1000/566-1000/567-1000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ALUROLL



Overhead Box & Motor Cover Options

- No Cover (Standard)
- Galvanized Steel (Optional)
- Electrostatic Painted Steel (Optional)
- Eloxal Aluminum (Optional)
- Stainless steel sheet
- Painted Aluminum (Optional)
- Stainless Steel (Optional)

PVC Curtain Supportive Slats

- Aluminum extruded
- Elegant outlook
- Special design for easy wrapping around the shaft
- Special design for modular curtain replacement

Bottom Edge

- Aluminum extruded
- Elegant outlook
- Anticrush feature
- Rubber seal complies with pneumatic or optosensor safety edge system

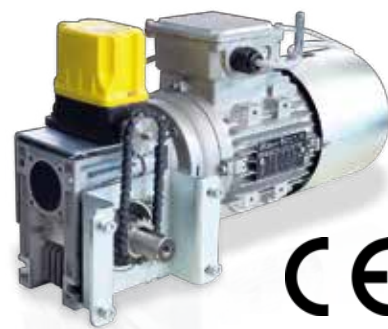


Shaft

- Aluminum extruded
- Ø140 mm.
- Vibration-free design



*Aluminum door brings
“quality” with
its elegance and hygiene*

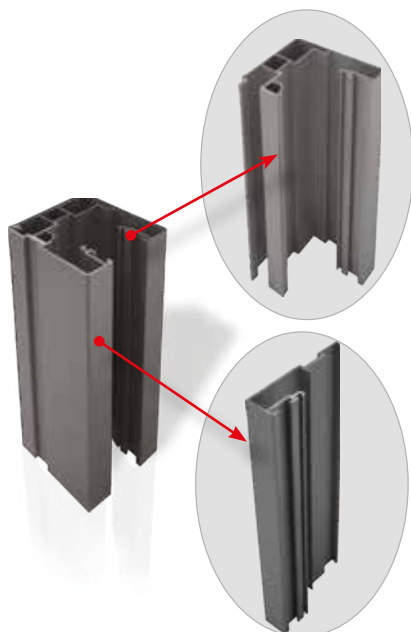


Tarpaulin

- European sourced
- CE certified
- Panama type fabric with 900 gr/m²
- Non-flamable (optional)

Safety System Options

- Eye Photocell Reflected
- Photocell with Battery
- Gate Photocell
- Beam photocell
- Beam Photocell - Radar
- Cabled Pneumatic Photocell
- Cabled Optic Sensor
- Rod Photocell, moves with door



Side Guides

- Aluminum extruded
- Elegant outlook
- Made of 2-piece as frame and cover
- Easy to install with "Easy Click" system
- Hidden screwing with Led seal
- Hidden photocell channel
- Hidden cabling channel
- Double sealing alternative with rubber seal and brush seal

ELECTROFF Manual Opening Device (standard)



Optional

- Counter-weight System (With Manual or Automatic Opening)
 - Inverter
 - Interlock Connection
 - Rope-Pull Switch Control System
 - Motor Cover
 - Manual Lock
 - Reinforcement for high wind load
- Standard Wind Resistance:
Class-1 (300 Pa, 80,5 km/h)
- Painted or Stainless Steel Metal Components

PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

±łădzł-fă zT ŐzfzNă ł-NŜ ăłYdzł-űŜŘ



FOLDER



Belt and Buckle

- 48 mm industrial polyester fabric
- Steel connection rings



Mechanism box

- Galvanized steel sheet
- Laser-cut, carrier brackets
- Modular structure with screwing s



Bottom Bar

- Bar chamber made of double skin PVC curtain
- Ø25-51x2 steel pipe

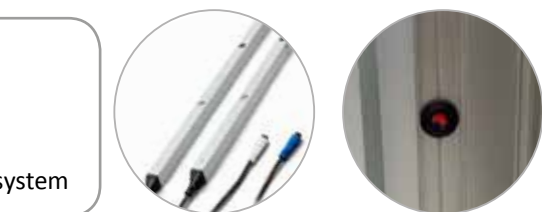
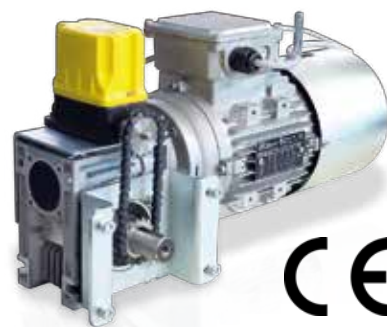


Impact absorber

- Prevents tarpaulin damages in case of waving of tarpaulin due to positive/negative pressure



*Do not limit your thoughts,
big doors let you realize...*



Safety System Options

- Eye Photocell Reflected
- Photocell with Battery
- Gate Photocell
- Beam photocell
- Beam Photocell - Radar
- Cabled Pneumatic Photocell
- Cabled Optic Sensor
- Rod Photocell, moves with door

PVC curtain Supportive Bars

- Hidden steel bars
- Ø25-51x2 steel pipes

Tarpaulin

- European sourced
- CE certified
- Panama type fabric with 900 gr/m²

Side Guides

- Single piece galvanized steel sheet
- PVC sealed
- Hidden photocell holder
- Bottom blocking guide

ELECTROFF Manual Opening Device (standard)



Optional

- Counter-weight System (With Manual or Automatic Opening)
- Inverter
- Interlock Connection
- Rope-Pull Switch Control System
- Motor Cover
- Manual Lock
- Reinforcement for high wind load
Standard Wind Resistance:
Class-2 (450 Pa, 98,5 km/h)
- Painted or Stainless Steel Metal Components

PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

±1000/1-1000/2-1000/3-1000/4-1000/5-1000/6-1000/7-1000/8-1000/9-1000/10



ZIPROLL



Overhead Box & Motor Cover Options

- No Cover (Standard)
- Galvanized Steel (Optional)
- Electrostatic Painted Steel (Optional)
- Eloxal Aluminum (Optional)
- Stainless steel sheet
- Painted Aluminum (Optional)
- Stainless Steel (Optional)



Shaft

- Ø89x2 steel pipe
- Chain coupling system that prevents vibration

POM/Nylon Zippers



Polyethylene side tracks



Self repairing feature



Bottom Edge

- Soft bottom edge, filled with sand etc.
- Self repairing feature without suffering damage in case of crash

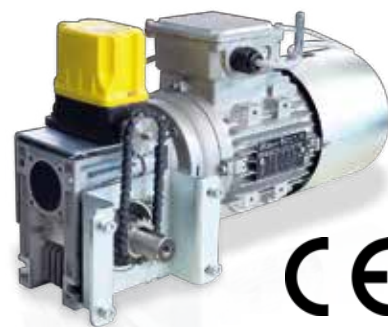


Curtain Tensioning Spring

- Side springs to ensure curtain stretch



here is the faster one...



Side Guides

- Galvanized steel side guide, chassis and cover

Tarpaulin

- European sourced
- CE certified
- 900 gr/m2, panama type,
- No reinforcement bar

Basic Specifications

- High opening speed, up to 2 m/sec
- Self repairing feature

ELECTROFF Manual Opening Device (standard)



Optional

- Counter-weight System (With Manual or Automatic Opening)
- Inverter
- Interlock Connection
- Rope-Pull Switch Control System
- Motor Cover
- Manual Lock
- Painted or Stainless Steel Metal Components

PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

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WINDROLL



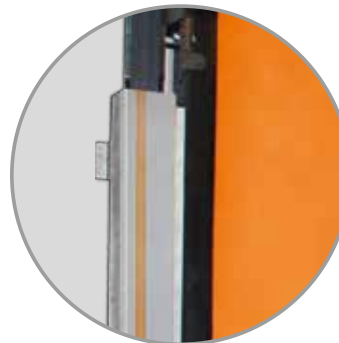
Overhead Box & Motor Cover Options

- No Cover (Standard)
- Galvanized Steel (Optional)
- Electrostatic Painted Steel (Optional)
- Eloxal Aluminum (Optional)
- Stainless steel sheet
- Painted Aluminum (Optional)
- Stainless Steel (Optional)



Side Guides

- Galvanized steel side guide, chassis and cover



Special design delrin zippers



Special design polyethylene side tracks

Tarpaulin

- European sourced
- CE certified
- 900 gr/m2, panama type,
- No reinforcement bar

Bottom Edge

- Soft bottom edge, filled with sand etc.
- Self repairing feature without suffering damage in case of crash.

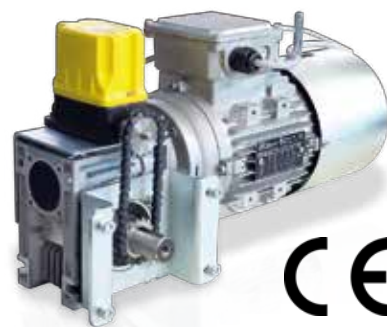


Curtain Tensioning Spring

- Side springs to ensure curtain stretch



*“No need to worry about
storm anymore”*



Drive Shaft

- Ø102x2 mm, steel pipe



Winding Shaft

- Ø102x2 mm, steel pipe

Automation System

- Motor with encoder
- Control unit with inverter



Self repairing feature

Basic Specifications

- Ideal solution for large size external doors
- Safely open-close operation against very high wind
- High opening speed, up to 2,5 m/sec
- Self repairing feature

ELECTROFF Manual Opening Device (standard)



Optional

- Interlock Connection
- Rope-Pull Switch Control System
- Motor Cover
- Manual Lock
- Painted or Stainless Steel Metal Components

PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

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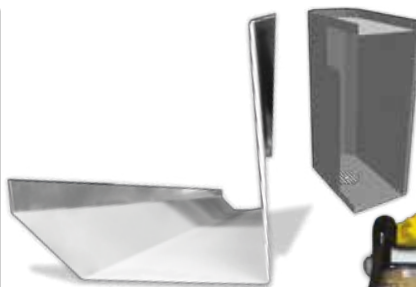


TERMOROLL



Overhead Box & Motor Cover Options

- No Cover (Standard)
- Galvanized Steel (Optional)
- Electrostatic Painted Steel (Optional)
- Eloxal Aluminum (Optional)
- Stainless steel sheet
- Painted Aluminum (Optional)
- Stainless Steel (Optional)

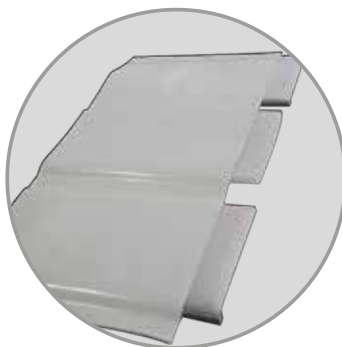


Shaft

- Aluminum extruded
- Ø140 mm.
- Vibration-free design

PVC curtain Supportive Bars

- Hidden bars
- 5x10 box profile



Tarpaulin

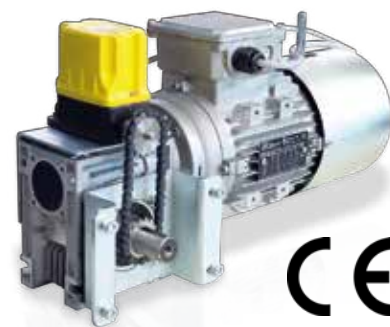
- European sourced
- CE certified
- 900 gr/m2, panama type
- With polyethylene isolation sheets

Bottom Edge

- Hidden Ø25 Solid shaft with shock absorber
- Bar chamber made of double skin PVC curtain
- Edge shafts that allows easy repair against crash



*energy means **cost**,
keep it!*



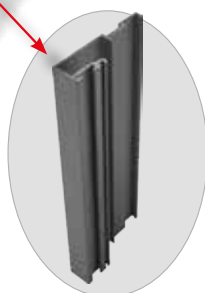
Safety System Options

- Eye Photocell Reflected
- Photocell with Battery
- Gate Photocell
- Beam photocell
- Beam Photocell - Radar
- Cabled Pneumatic Photocell
- Cabled Optic Sensor
- Rod Photocell, moves with door



Side Guides

- Aluminum extruded
- Elegant outlook
- Made of 2-piece as frame and cover
- Easy to install with "Easy Click" system
- Hidden screwing with Led seal
- Hidden photocell channel
- Hidden cabling channel
- Double sealing alternative with rubber seal and brush seal



Basic Specifications

- High insulated door solutions for cold room climatization needs.

ELECTROFF Manual Opening Device (standard)



Optional

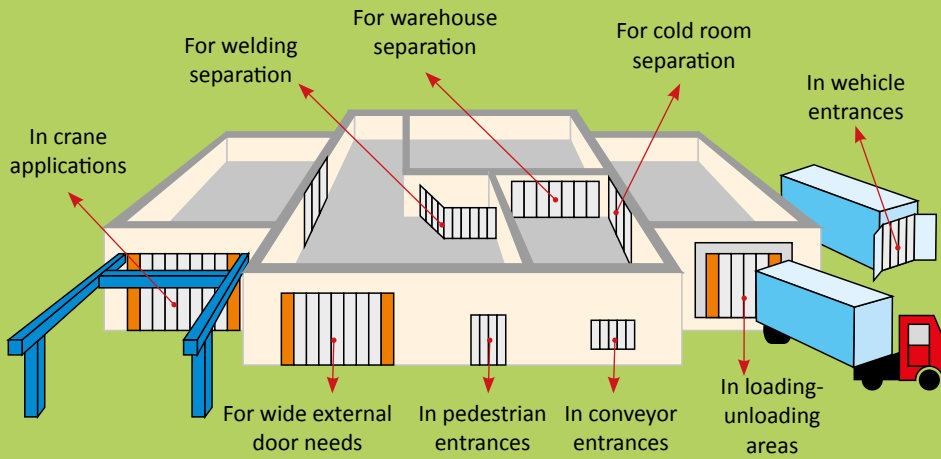
- Heater (in case of - & + room temperature difference)
 - Counter-weight System (With Manual or Automatic Opening)
 - Inverter
 - Interlock Connection
 - Rope-Pull Switch Control System
 - Motor Cover
 - Manual Lock
 - Reinforcement for high wind load
- Standard Wind Resistance:
Class-1 (300 Pa, 80,5 km/h)
- Painted or Stainless Steel Metal Components

PVC Color Options

	White		Orange
	Cream		Red
	Light Grey		Blue
	Dark Grey		Green
	Yellow		Black

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STRIP & FLIP-FLAP DOORS



AREAS OF USAGE

- Protects the room from external effects
 - Humidity isolation
 - Sound isolation
 - Thermal isolation
 - Bird-insect
 - Dust
 - Noise
 - Sun rays
- Easy to apply
- Modular structure
- Transparency
- Easy to replace
- Easy to clean
- Retard enflaming
- No flame spreading
- Provides energy saving
- Provides passage from any point



SPECIFICATIONS AND ADVANTAGES

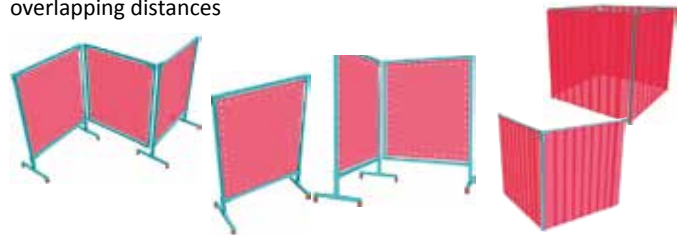
PVC Strip doors, are made of transparent PVC strips, are provided to make a separation between chambers and are extremely practical and economic solutions.

Thanks to its flame retardent specifications in its content, PVC strip doors can be used in welding rooms to make a separation. The PVC strip doors can be folded to a side manually in case of need.

SIZES

Until 2200 mm height	200 mm width	2-3 mm thickness
Until 3500 mm height	300 mm width	2-3-4 mm thickness
Until 4500 mm height	400 mm width	3-4 mm thickness

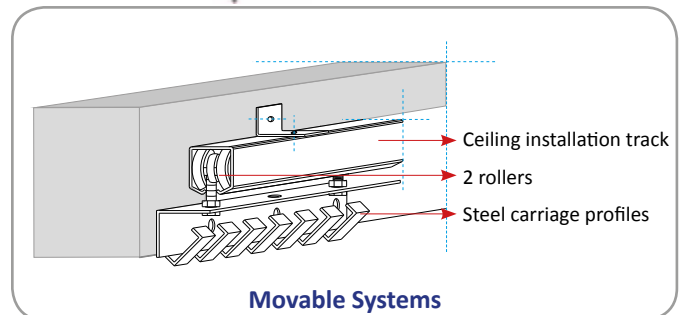
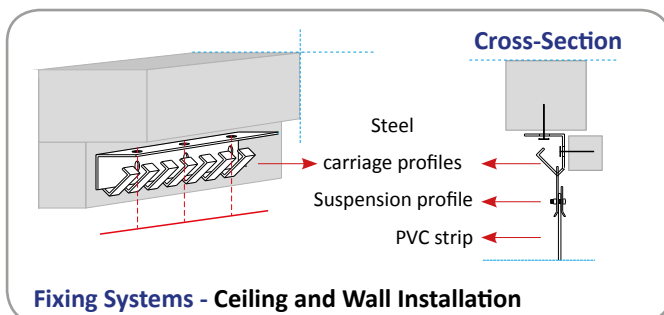
Different overlapping alternatives are available for different widths and thicknesses. Traffic intensity, wind-weather circulation are the key factors to determine overlapping distances. The more overlapping the more protection against cold weather penetration. PVC strips can be hanged up to the upper track with the required overlapping distances



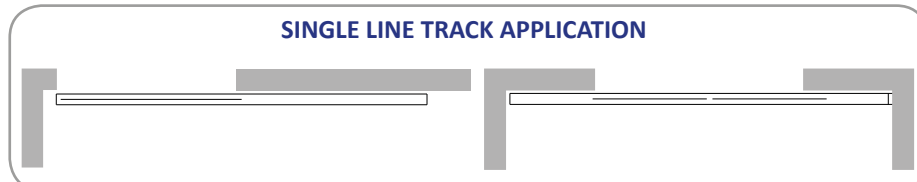
WELDING CABINETS

- Can be used to separate welding and grinding areas from other working areas
- Provides protection for eyes against harmful UV rays and against hot trimmings and flying dusts
- Can be made two types as of fixed and movable according to using purpose

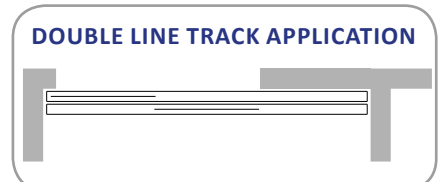
INSTALLATION OPTIONS



SINGLE LINE TRACK APPLICATION

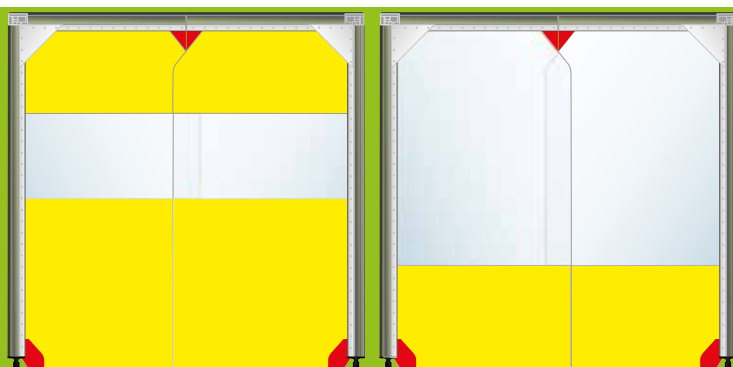


DOUBLE LINE TRACK APPLICATION



- Thanks to a special tracking system, PVC strips can be slid and folded to right or left or to both sides

The easy, functional and flexible way of separating the chambers



- It provides a passage way between two neighbor rooms where it separates in deed
- It can be opened by a simple pushing and allows people and vehicles to pass through easily
- Spring mechanism closes the door automatically after the passage of people or vehicles and keeps the door in close position
- It is mainly preferred to separate two chambers or internal-external environments in industrial premises, supermarkets, construction markets etc.
- It allows people or vehicle to pass through straight away

TRANSFLEX	Ref No	Strip Widths And Thicknesses (mm)			Ambient Temperature	Where To Use
		200	300	400		
Standard Bluish Transparent	100	2,3,4,5	2,3,4,5	2,3,4	-15/+50	In other internal and external applications against dust and smoke
Colorless Transparent	101	2	3	3,4	-15/+50	
Cold Resistant Green	105	2,3,5	2,3	4	-25/+30	In cold rooms
More Cold Resistant Green	106	2	3	-	-50/+15	In deep freezing rooms
Cold Resistant Colorless	107	2,3	3	-	-25/+30	In cold rooms
Flame Retardant Transparent	170	-	3	-	0/+50	In high fire risk places especially
Antistatic Transparent	180	2	-	-	-15/+50	When no static electric accumulation is required

SCREENFLEX	Ref No	Strip Widths And Thicknesses (mm)			Ambient Temperature	Where To Use
		200	300	400		
Transparent Red, Resistant To Sun Ray	302	-	2,3	-	-15/+50	To isolate welding cabinets, in textile factories, in electronic device production and installation factories
Opaque Green, Resistant To Sun Ray	312 - 313	-	2,3	-		
Bronze Transparent, Resistant To Sun Ray Colorless	105	-	2	-		

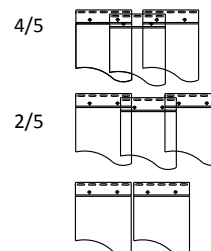
TECHNIFLEX	Ref No	Strip Widths And Thicknesses (mm)			Ambient Temperature	Where To Use
		200	300	400		
Yellow Transparent, Fly-Free	127	2	3	2,3,4	-15/+50	To prevent fly, mosquito etc. entries
Red, Transparent	141	2	2,3	3,4	-15/+50	
Grey, RAL7001	150	2	-	4	-25/+30	As a safety warning strips at the both sides of strip doors in industrial doors, shotpeening cabinets, shooting galleries, for sound and heat insulation
White, RAL9003	156	2	-	-	-50/+15	
Orange, RAL2004	162	2	3	-	-25/+30	

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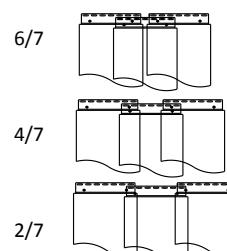
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OVERLAPPING OPTIONS

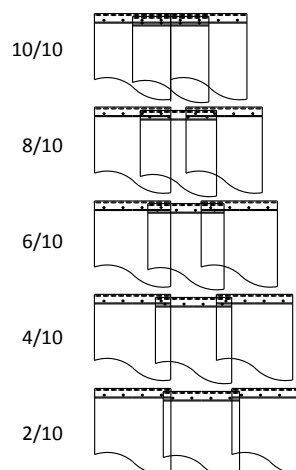
for 200 mm width strips



for 300 mm width strips



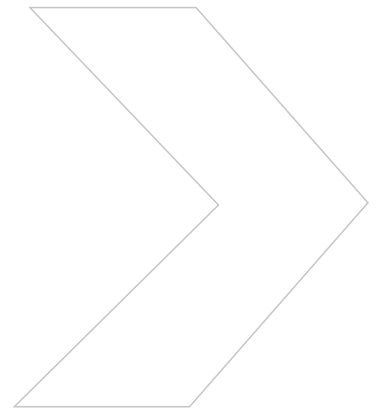
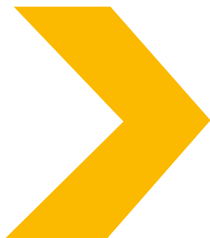
for 400 mm width strips





Hangar Doors

- Telescopic Doors
- Side Folding Doors
- Side Sectional Doors
- Fold-up Doors
- Bi-fold Doors



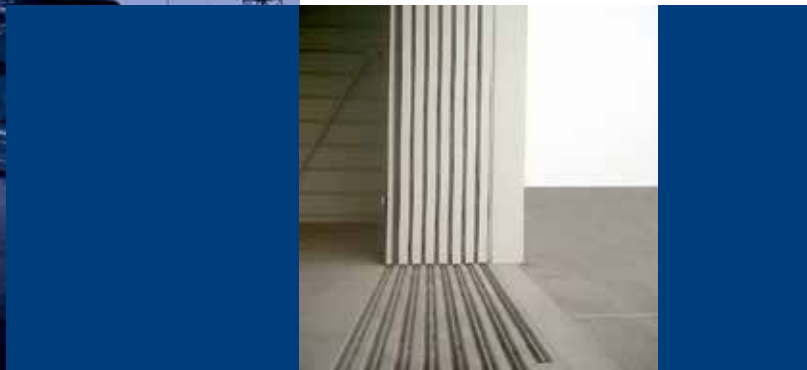
doors pushing the limits

*gain wider passages in the structures by using
“hangar doors”*





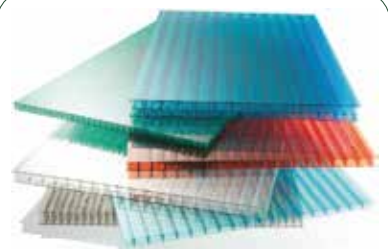
TELESCOPIC HANGAR DOORS



Facade Options



Sandwich Panel



Polycarbonate Panel



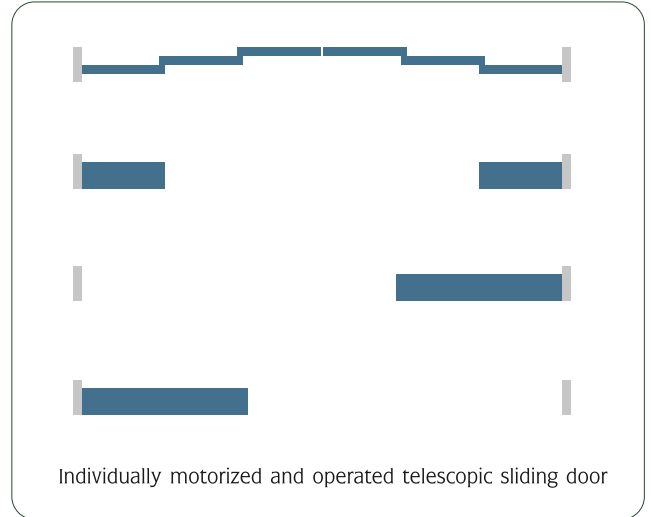
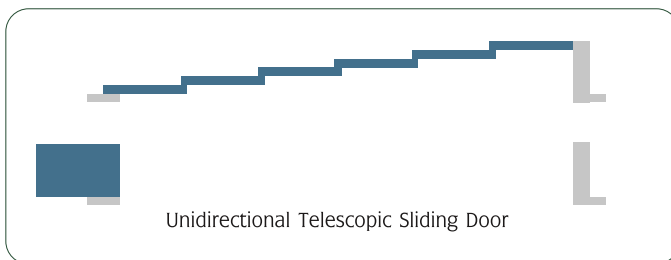
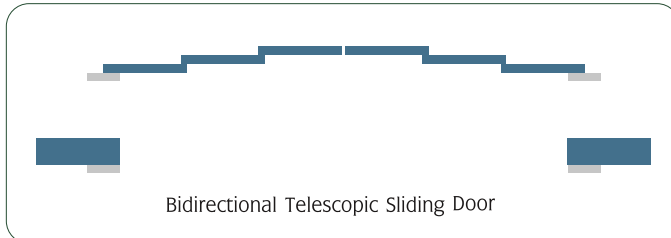
GRP Panel

More than a door...

Hangar doors require precise design and advanced engineering knowledge due to its robustness requirements and safety precautions.



Application Options





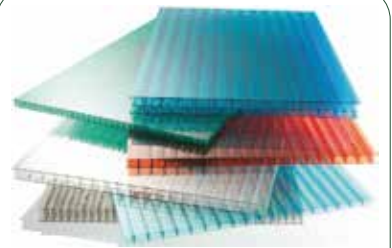
SIDE FOLDING HANGAR DOORS



Facade Options



Sandwich Panel



Polycarbonate Panel

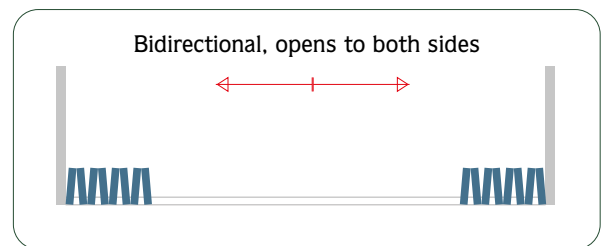
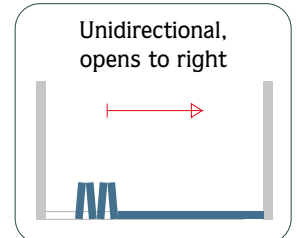
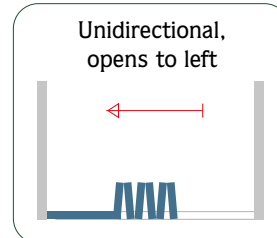


GRP Panel

Tailored solutions for existing commercial, industrial and residential architectural structures and structural requirements.



Application Options





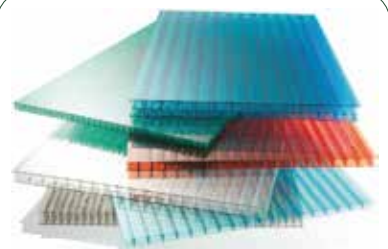
SIDE SLIDING HANGAR DOORS



Facade Options



Sandwich Panel



Polycarbonate Panel



GRP Panel

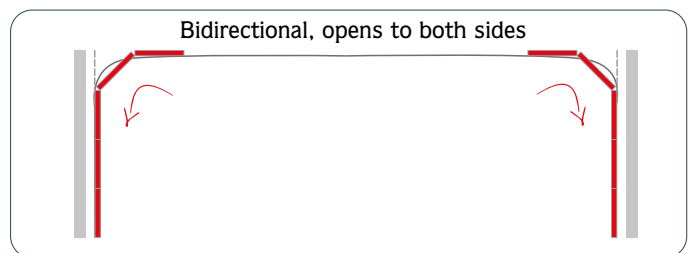
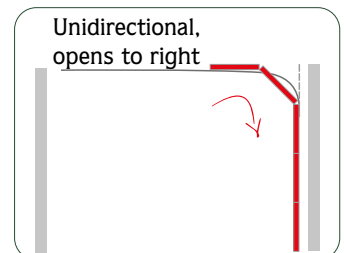
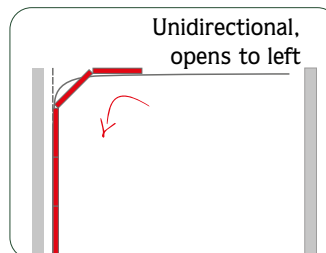
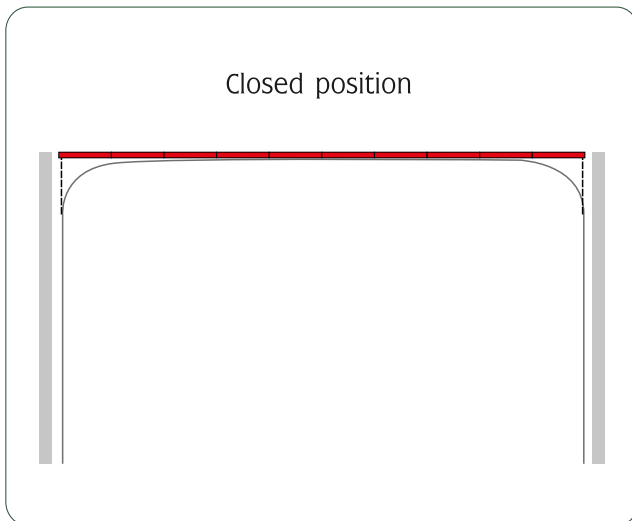


Doors that make a difference with their quality

*More than 100 successfully executed projects worldwide speak for themselves with **GOXU** quality*



Application Options





FOLD-UP PVC HANGAR DOORS



Tarpaulin Colour Options



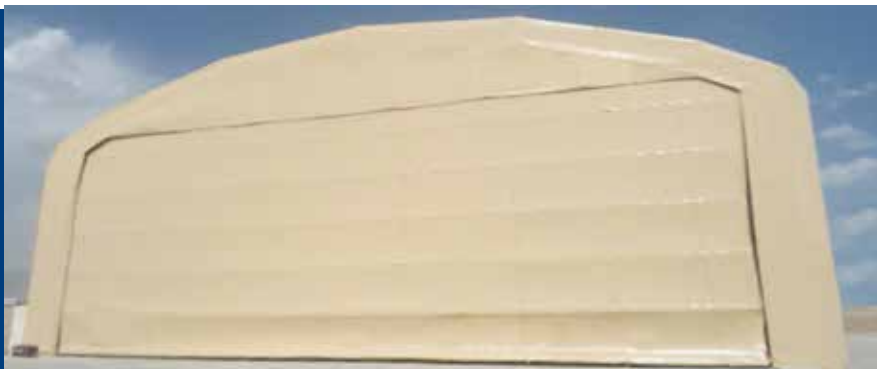
	White
	Cream
	Light grey
	Dark grey
	Yellow
	Orange
	Red
	Blue
	Green
	Black

Visuals of colours are simulated

Tarpaulin Specifications

- European sourced
- CE certificated
- 900 gr/m2 panama type

*Solutions for safety, energy efficiency,
insulation and ease of use*





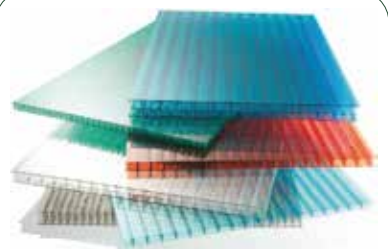
BI-FOLD DOOR SOLUTIONS



Cladding Options



Sandwich Panel



Polycarbonate Panel

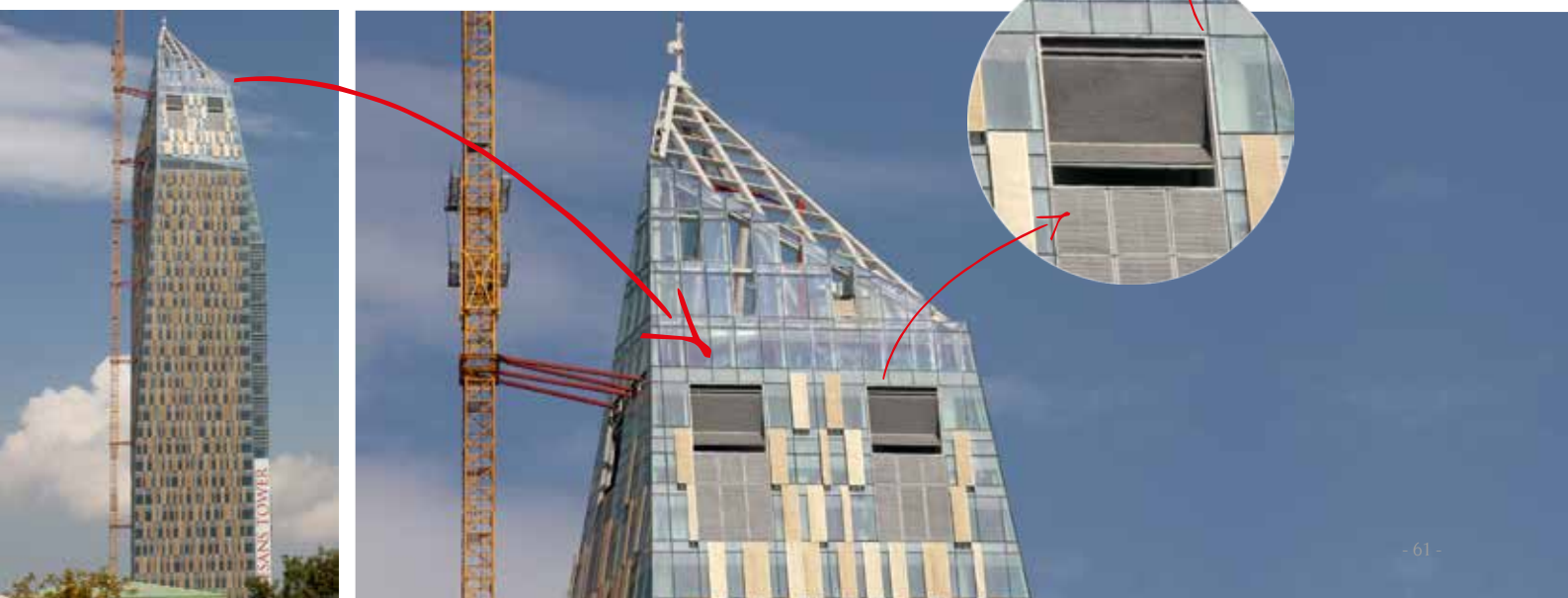
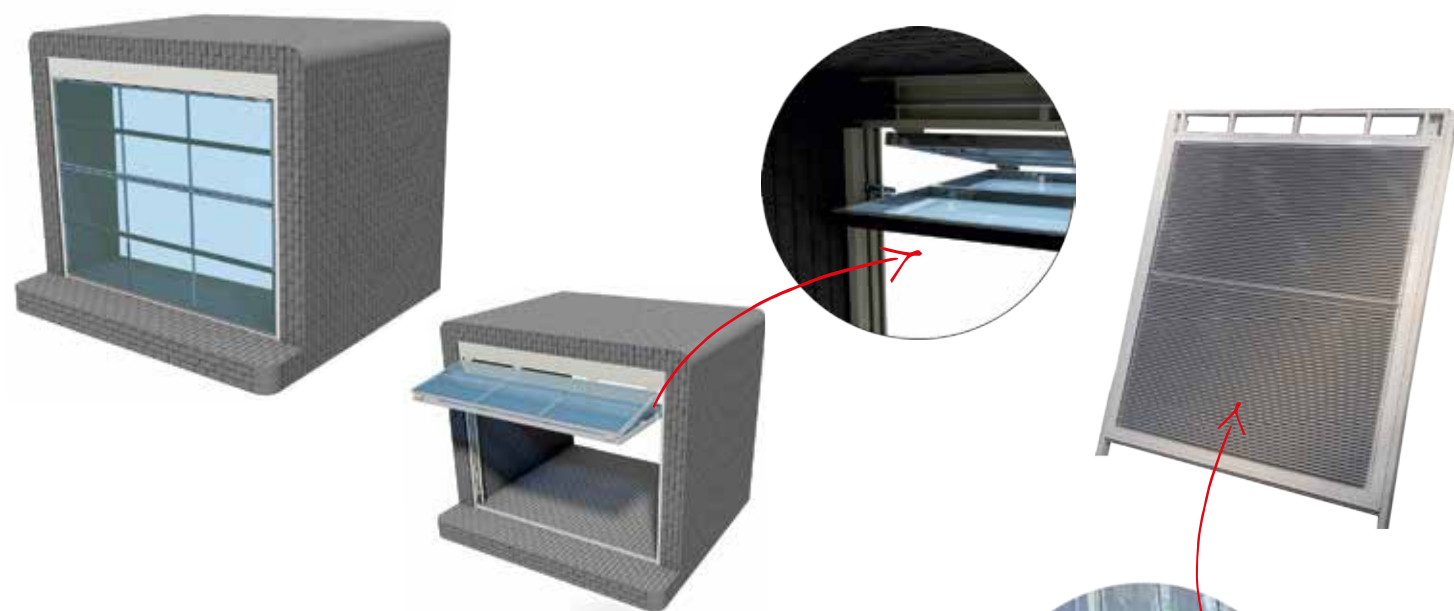


GRP Panel



Professional solutions for structures

GOXU is the key of the application success for the special architectural structures which require the highest standards and tailored solutions.





Dock Levelers

- Swing Dock Leveler
- Telescopic Dock Leveler
- Vertical Dock Leveler
- Mobile Loading Platform

Our load is heavy!

Properly configured

“Loading Systems”

make your job easier...





TIP-E SWING TYPE DOCK LEVELER



HYDRAULIC UNIT

- Italian hydraulic unit with 3 outputs
- Capable to pull the flap back by force

BACK SIDE JOINT STRUCTURE

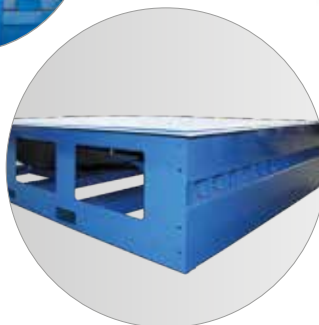
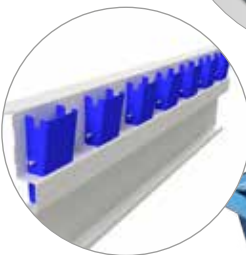
- Spreads the load to a wider surface against forklift crossings thanks to its special multi-point supportive designed joint structure

BOTTOM SUPPORTIVE BEAMS

- Flexible and seamless L shaped beams that neutralize the planar differences between the floor and the vehicle surfaces
- Healthy welding with inert-gas welding method.
- Full compliance to min. 150mm wheel width in accordance with EN 1398 international standard.

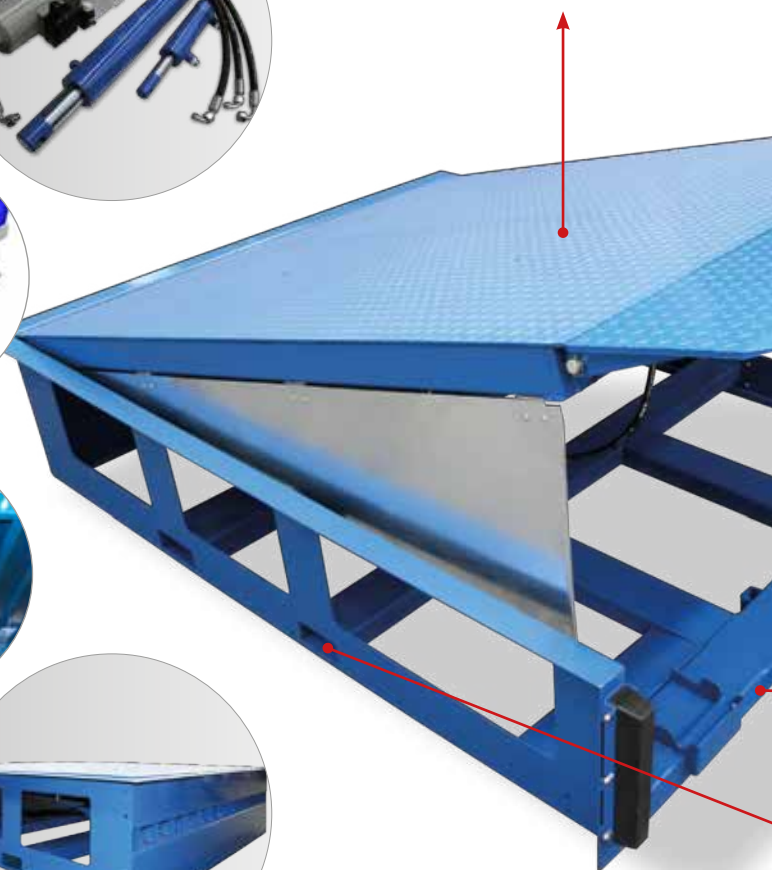
SELF SUPPORTIVE FRAMEWORK

- Suspended, embedded or detachable type unique frame designs
- Made of monolithic, laser-cut steel sheets



PLATFORM SHEET

- Tear-drop checkered steel sheet



*Let us build
“bridges”
that ease your burden.*



FLAP SHEET

- Tear-drop checkered steel sheet

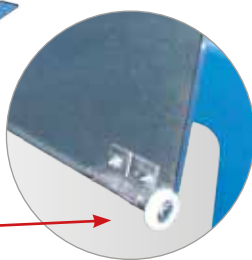


SAFETY LOCK

- Platform locking arm for safe and easy maintenance

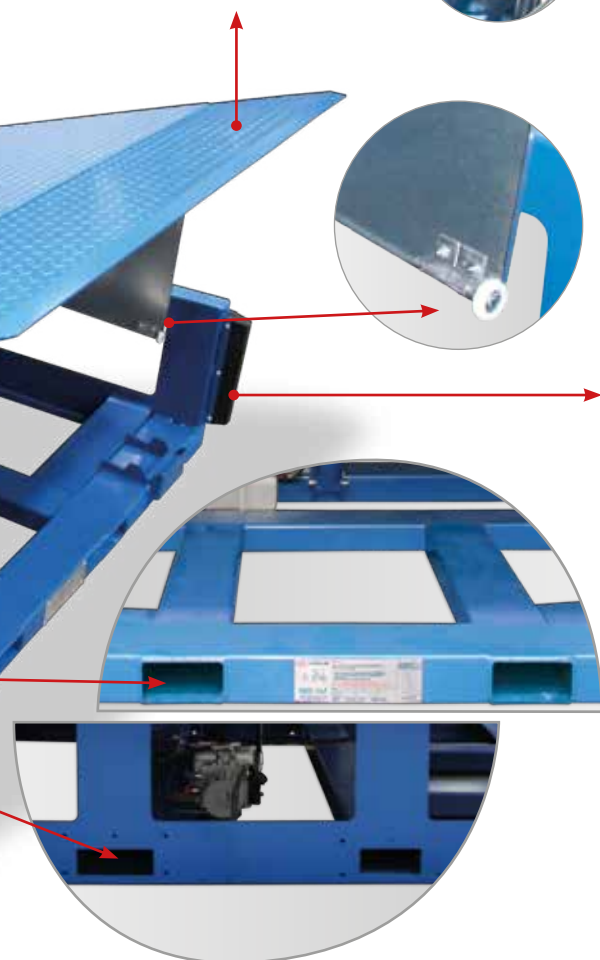
ANTI-SHEARING SIDE SHEETS

- Anti-shearing safety sheets
- Equipped with rollers that ensures noise-free and damage-free working



RUBBER BUMPERS

- Shock absorbing, easy replaceable, long lasting rubber bumpers
- Reminds the replacement time thanks to its inner strips



EASY TRANSFERING DURING INSTALLATION

- Easy to carry and embedding to the pit thanks to its special fork holes that allows to carry the system with a forklift

Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL
Catalog. (Except for
phosphorous colors.)



Loading Capacity

- Dynamic carrying capacity
7 - 9 - 12 - 15 Ton

DIMENSIONS(mm)	SINGLE	THREE
Width x Depth	FLAP	FLAP
1750 x 2000	✓	X
1750 x 2500	✓	X
1750 x 3000	✓	X
2000 x 2000	✓	✓
2000 x 2500	✓	✓
2000 x 3000	✓	✓
2200 x 2000	✓	✓
2200 x 2500	✓	✓
2200 x 3000	✓	✓

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BOX SWING TYPE DOCK LEVELER



HYDRAULIC UNIT

- Italian hydraulic unit with 3 outputs
- Capable to pull the flap back by force

BACK SIDE JOINT STRUCTURE

- Spreads the load to a wider surface against forklift crossings thanks to its special multi-point supportive designed joint structure

BOTTOM SUPPORTIVE BEAMS

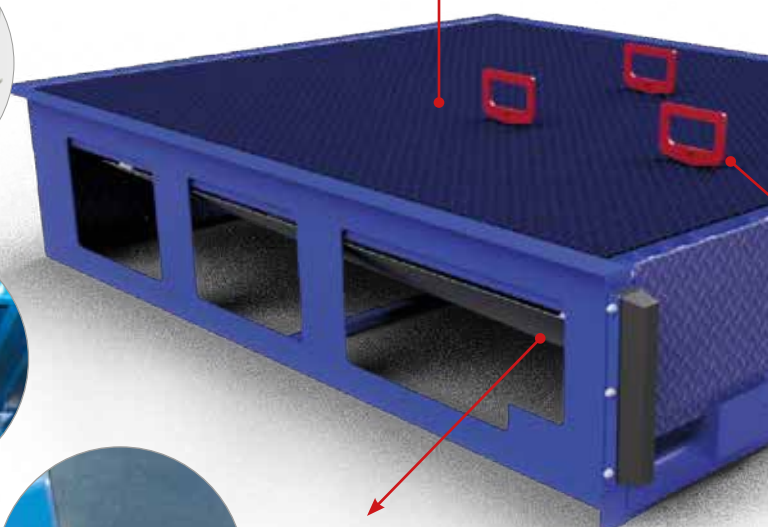
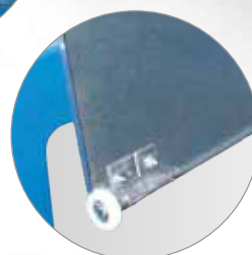
- Flexible and seamless L shaped beams that neutralize the planar differences between the floor and the vehicle surfaces
- Healthy welding with inert-gas welding method.
- Full compliance to min. 150mm wheel width in accordance with EN 1398 international standard.

SELF SUPPORTIVE FRAMEWORK

- Suspended, embedded or detachable type unique frame designs
- Made of monolithic, laser-cut steel sheets

PLATFORM SHEET

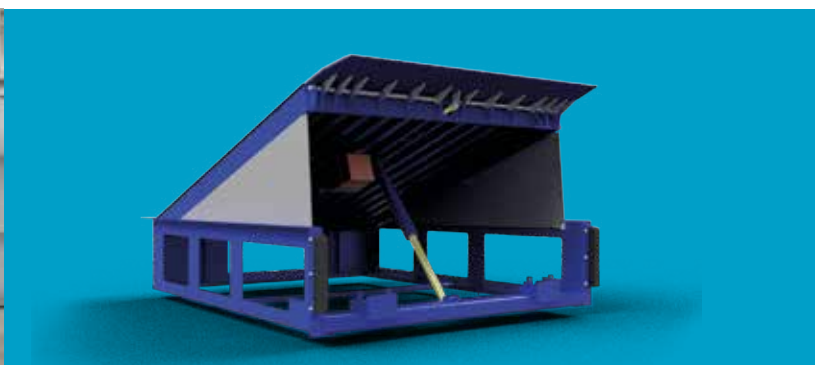
- Tear-drop checkered steel sheet



ANTI-SHEARING SIDE SHEETS

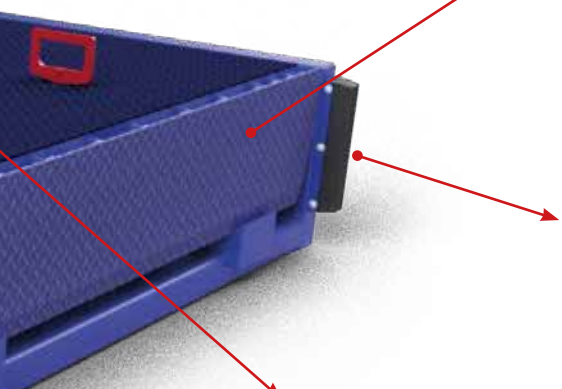
- Anti-shearing safety sheets
- Equipped with rollers that ensures noise-free and damage-free working

*BOX is the most competitive model
among self-framed models
thank to its new generation
mono-block design*



SAFETY LOCK

- Platform locking arm for safe and easy maintenance



FLAP SHEET

- Tear-drop checkered steel sheet



RUBBER BUMPERS

- Shock absorbing, easy replaceable, long lasting rubber bumpers
- Reminds the replacement time thanks to its inner strips

EASY CARRYING AND INSTALLATION

- With rotatable Ringbolts, easy and fast all around carrying

Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL
Catalog. (Except for
phosphorous colors.)



Loading Capacity

- Dynamic carrying capacity
7 - 9 - 12 - 15 Ton

DIMENSIONS(mm)	SINGLE FLAP	THREE FLAP
1750 x 2000	✓	X
1750 x 2500	✓	X
1750 x 3000	✓	X
2000 x 2000	✓	✓
2000 x 2500	✓	✓
2000 x 3000	✓	✓
2200 x 2000	✓	✓
2200 x 2500	✓	✓
2200 x 3000	✓	✓

FDŞÜ İYİ

2Nj Ōdzǎú2Y YŠúNjǎŌǎ



COMBI SWING TYPE DOCK LEVELER



BOTTOM SUPPORTIVE BEAMS

- L shaped strong beams
- Healthy welding with inert-gas welding method

BACK SIDE JOINT STRUCTURE

- With adjustable legs that ensures safe intallation according to various pit heights and as well as for increasing the transportation capacity.

RUBBER BUMPERS

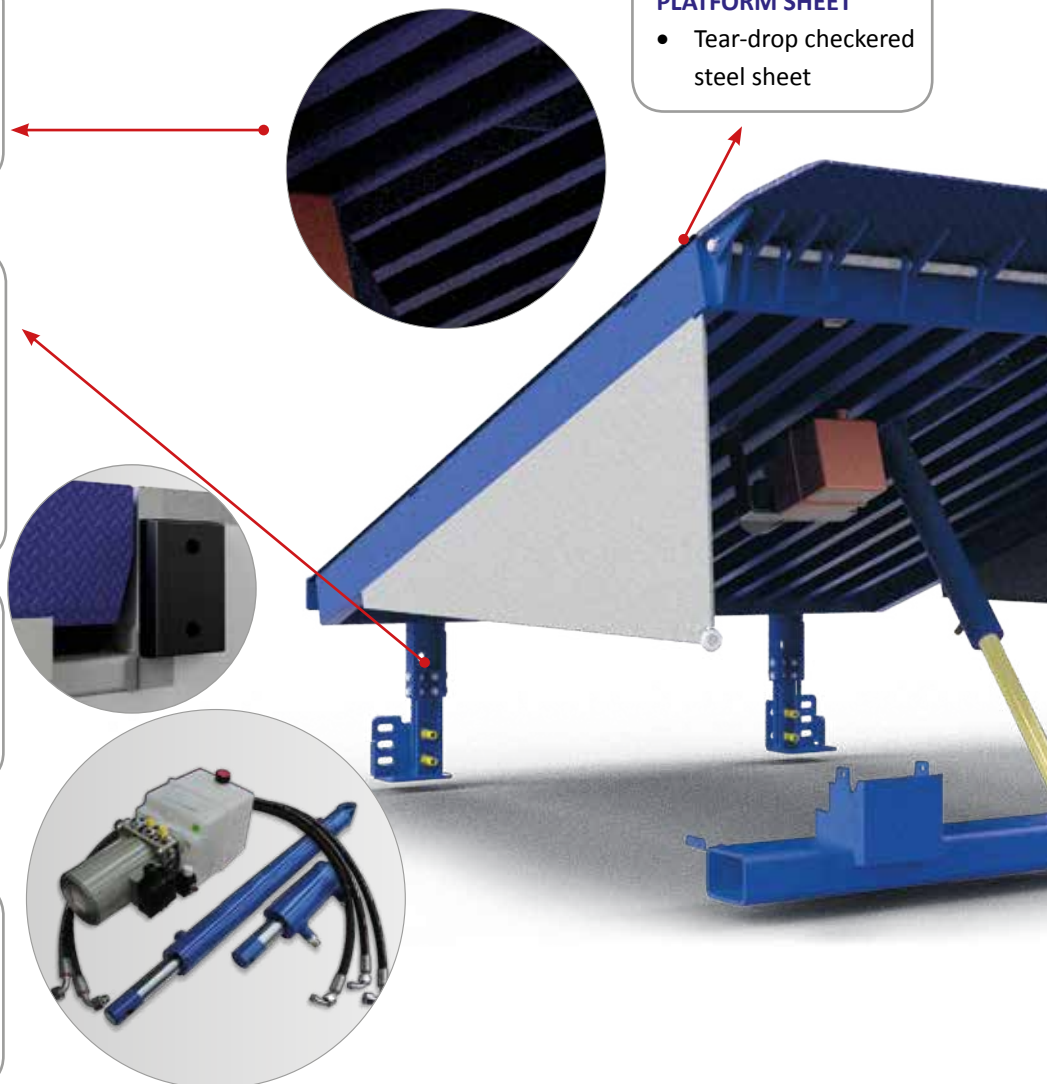
- Shock absorbing, long lasting
- rubber bumpers (large size bumper is optional)

HYDRAULIC UNIT

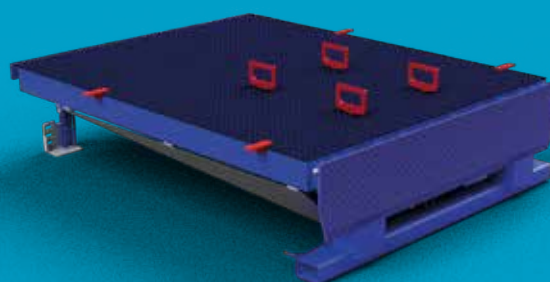
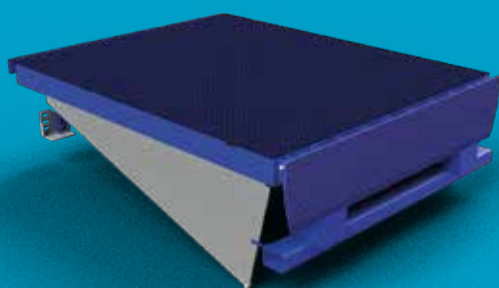
- Italian hydraulic unit
- Capable to pull the flap back by force

PLATFORM SHEET

- Tear-drop checkered steel sheet



*COMBI is the most competitive model
in price wise with
its ergonomic and
intelligent design*



FLAP SHEET

- Tear-drop checkered steel sheet

EASY TRANSPORTATION AND STOCKING

- More number of dock levelers can be transported or stocked thanks to its foldable and adjustable design

EASY CARRYING AND INSTALLATION

- With rotatable Ringbolts, easy and fast all around carrying

ANTI-SHEARING SIDE SHEETS

- Anti-shearing safety sheets
- Equipped with rollers that ensures noise-free and damage-free working

Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL
Catalog. (Except for
phosphorous colors.)



Loading Capacity

- Dynamic carrying capacity
7 - 9 - 12 - 15 Ton

DIMENSIONS(mm)	SINGLE	THREE
Width x Depth	FLAP	FLAP
1750 x 2000	✓	X
1750 x 2500	✓	X
1750 x 3000	✓	X
2000 x 2000	✓	✓
2000 x 2500	✓	✓
2000 x 3000	✓	✓
2200 x 2000	✓	✓
2200 x 2500	✓	✓
2200 x 3000	✓	✓



TELESCOP TELESCOPIC TYPE DOCK LEVELERS



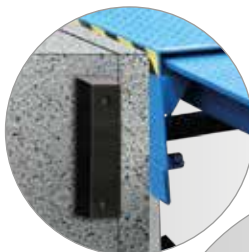
BOTTOM SUPPORTIVE BEAMS

- L shaped strong beams
- Healthy welding with inert-gas welding method.



BACK SIDE JOINT STRUCTURE

- Strong fixation with welding



EXTERNAL RUBBER BUMPERS

- Shock absorbing and long lasting rubber bumpers



HYDRAULIC UNIT

- Italian hydraulic unit with safety valve against hose fracture
- Capable to pull the flap back by force



*“smart solutions”
to ease your
burden needs*



PLATFORM SHEET

- Tear-drop checkered steel sheet

FLAP SHEET

- Tear-drop checkered steel sheet

EASY TRANSFERING DURING INSTALLATION

- Easy to carry the dock leveler thanks to its side fork holes that allows to carry the system with a forklift

SAFETY LOCK

- Platform locking arm for safe and easy maintenance

ANTI-SHEARING SIDE SHEETS

Telescopic moving anti-shearing safety sheets

Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL Catalog. (Except for phosphorous colors.)



Loading Capacity

- Dynamic carrying capacity
6 - 10 - 12 - 15 Ton

LIP LENGTH OPTIONS

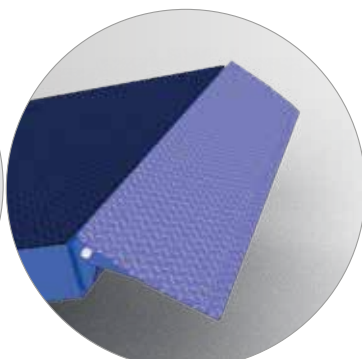
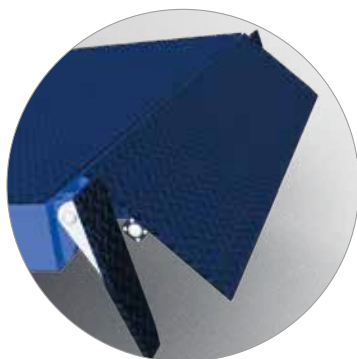
- 600 mm (standard)
- 1000 mm

DIMENSIONS(mm) Width x Depth	SINGLE FLAP
2000 x 2000	✓
2000 x 2500	✓
2000 x 3000	✓



DORA

VERTICAL (TRENCHLESS) DOCK LEVELER



PLATFORM SHEET

- Tear-drop checkered steel sheet
- Front flap can optionally be movable type with an additional cylinder, like typical pit-detailed dock levelers



HYDRAULIC UNIT

- Italian hydraulic unit with safety valve against hose fracture
- Capable to pull the flap back by force
- Enclosure is standard



Different “solutions” to different needs



BOTTOM SUPPORTIVE BEAMS

- Healthy welding with inert-gas welding method.

FLOOR ANCHORING

- Same-level anchoring with the floor (**standard**)
- Horizontal and vertical anchoring in case of no corner frame is available (**optional**)



Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL Catalog. (Except for phosphorous colors.)



Loading Capacity

- Dynamic carrying capacity
7 - 9 - 12 - 15 Ton

Sizes

- 1750 x 1000
- 1750 x 1500
- 1750 x 2000
- 1750 x 2500
- 2000 x 1000
- 2000 x 1500
- 2000 x 2000
- 2000 x 2500
- 2200 x 1000
- 2200 x 1500
- 2200 x 2000
- 2200 x 2500

(Please refer to Sales Dept. for special sizes)



BRIDGE **MOBILE** **LOADING** **PLATFORM**



FLAP

- Tear-drop checkered steel sheet with 700 mm length

FIXATION TO VEHICLE FLOOR

- Fixation to the vehicle while loading with Q8 chain

MOVEMENT WHEELS

- Rubber coated heavy duty wheels with Q2 60x70 mm

HYDRAULIC HAND PUMPS

- Easy folding with hydraulic hand pump when not in use

FLAP AND TAIL MOVEMENT

- Easy movement with hydraulic hand pump



“Mobile” bridges to your loads



ABSORPTION MATERIAL

- Hot galvanized, notched grill (3x30 mm)

PLATFORM

- Tear-drop checkered steel sheet

Colour Options

STANDARD- RAL 5010

OPTIONAL

All colors in the RAL Catalog. (Except for phosphorous colors.)



Loading Capacity

8 Ton - 10 Ton - 12 Ton

DIMENSIONS

- 2.000 X 10.200 mm

MAXIMUM ASCENDING - DESCENDING DISTANCES

- +1000 mm / +1600 mm





Dock Shelters

- Standard Dock Shelter
- Inflatable Dock Shelter
- Dock-tunnel
- Dock-house

Loss of energy costs you!

*Properly configured “**Dock Shelter Systems**”
prevent energy loss in your factory...*



CABIN & ROOF STANDARD DOCK SHELTERS



CROSSED ARM SYSTEM

- Movable, crossed, shock absorber arms

FRONT FRAMEWORK

- Made of galvanized box profile

REFLECTOR

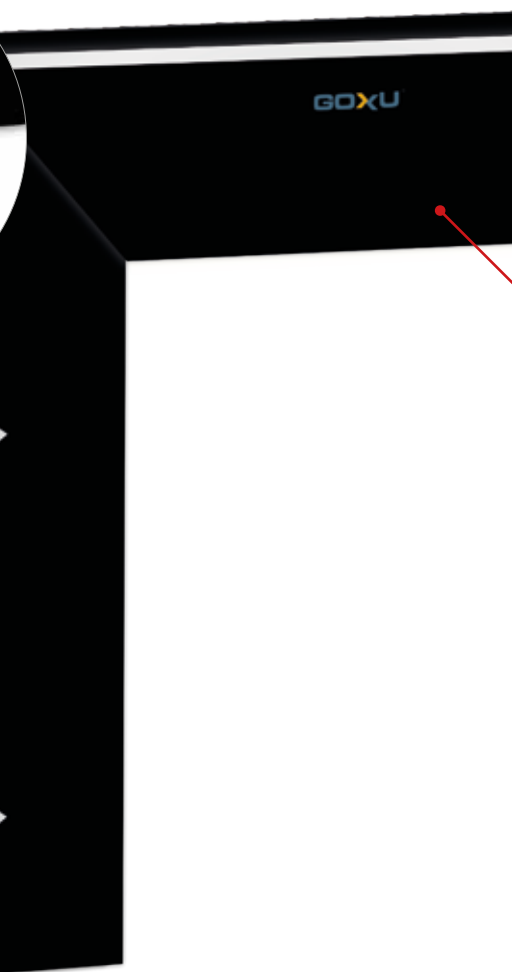
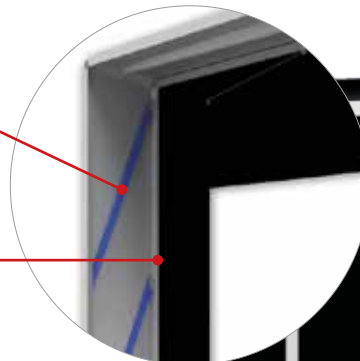
- Reflector support to ease vehicle approaching

SIDE CURTAIN

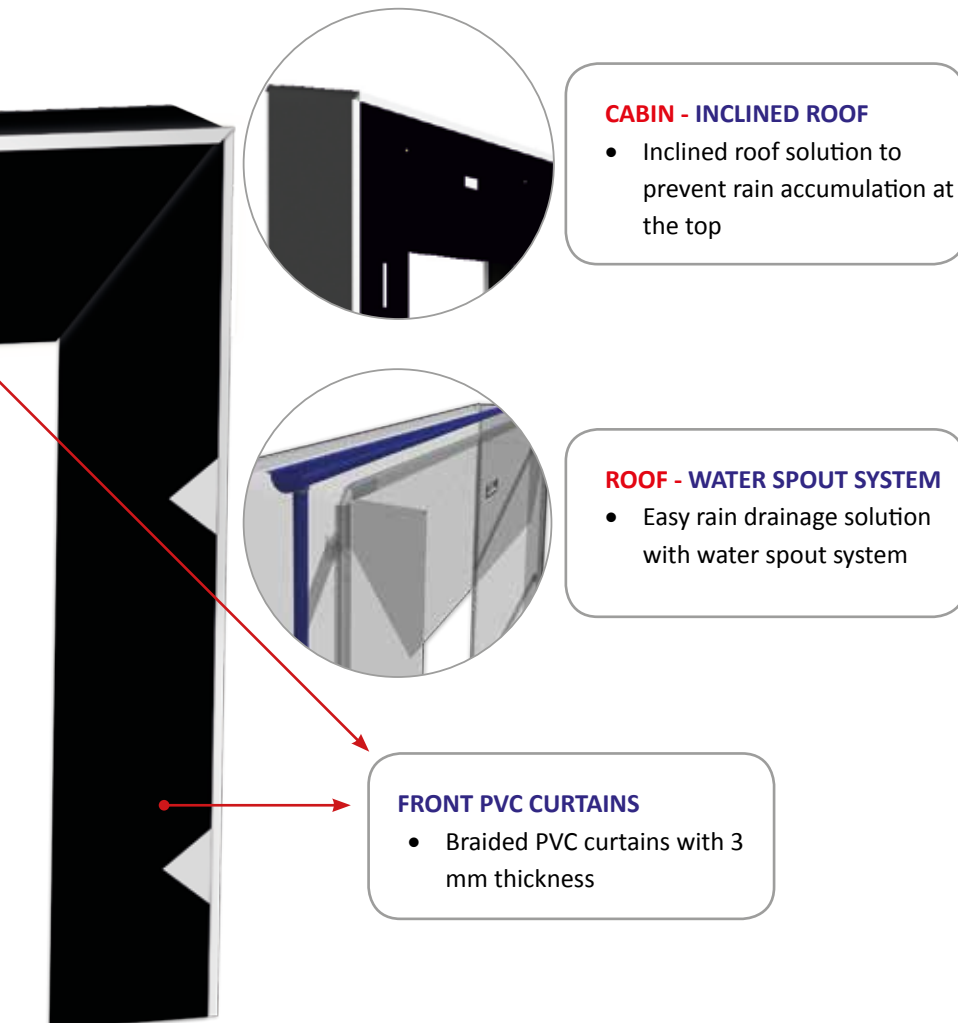
- European sourced PVC tarpaulin, 680 gr/m²

FRONT PVC FIXATION LATHS

- Made of anodized extruded aluminum



Easy, effective and “ideal” solutions



Tarpaulin and PVC Curtain Colours

STANDARD- Black

* Please refer to sales team for other colors

Depth of Dock Shelter

- 700 mm Standard,
- 1000 mm Optional ✓

Dimension Chart

		Height (mm)						
		3500	3750	4000	4250	4500	4750	5000
Width (mm)	3400	✓	✓	✓	✓	✓	✓	✓
	3600	✓	✓	✓	✓	✓	✓	✓
	3800	✓	✓	✓	✓	✓	✓	✓
	4000	✓	✓	✓	✓	✓	✓	✓
	4200	✓	✓	✓	✓	✓	✓	✓
	4400	✓	✓	✓	✓	✓	✓	✓
	4600	✓	✓	✓	✓	✓	✓	✓
	4800	✓	✓	✓	✓	✓	✓	✓
	5000	✓	✓	✓	✓	✓	✓	✓

NOTE: The most proper Dock Shelter size for standard vehicles is generally 3400 x 3500 mm.
In different size requirements, the shelter may not wrap up the vehicle enough.
In such cases, the gap between PVC curtains and vehicle may cause to light or heat transmission.



BALLOON INFLATABLE DOCK SHELTER



FRONT AND SIDE CURTAINS

- Braided PVC curtains with 3 mm thickness

SIDE FACADE

- PU filled facade panel with 40 mm thickness

OTHER SPECIFICATIONS

Coating: DIN 5334 N/5cm 6000/5000

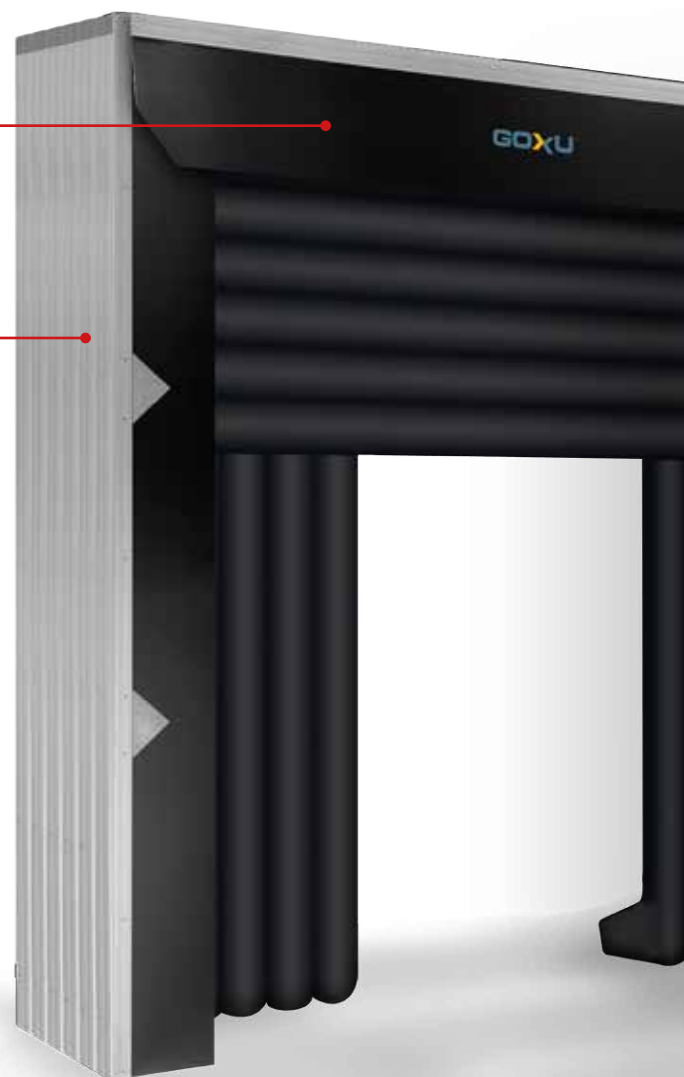
Resistance to elongation: 1000/900 DIN 53363

Burning Class: M2-B1 (DIN 75200, ISO 3795>100 mm/min.)

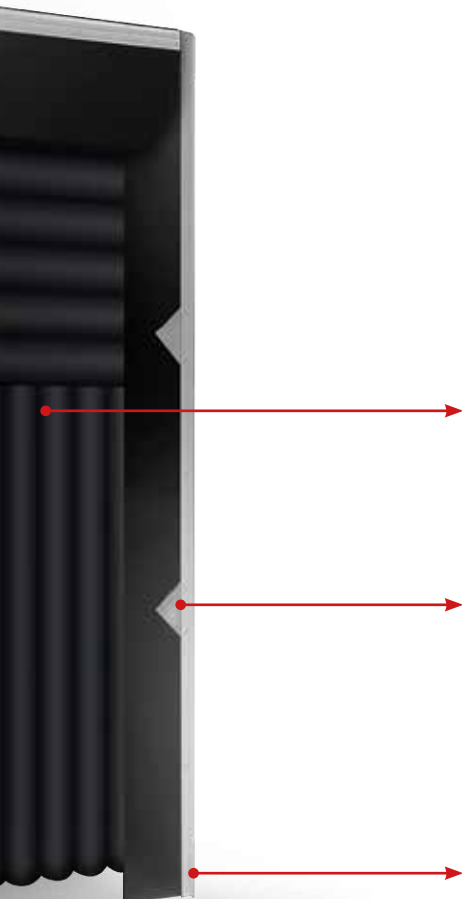
Aero-elastic scale: -40°C - +80°C

Hygiene: Anti-fugal and anti-bacterial

Cleaning: Dirt-proof and easy cleanup due to its LAK characteristics



Maximum “energy” saving



INFLATING TYPE

- With air pump

DEFLATION TYPE

- With counter-weight system

INFLATION/DEFLATION SPEED

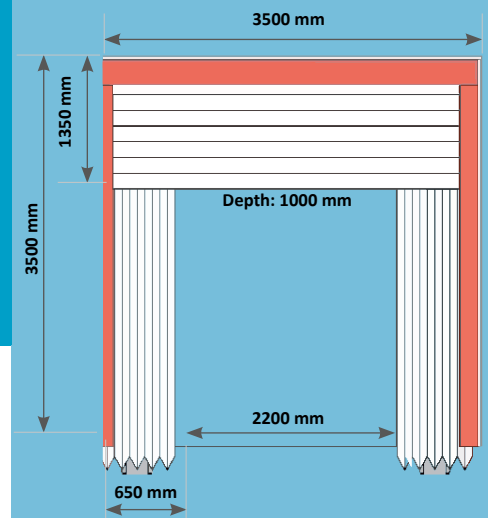
- 8 sec./ 8 sec.

REFLECTOR

- Reflector support to ease vehicle approaching

FRONT PVC FIXATION LATHS

- Made of anodized extruded aluminum



Tarpaulin and PVC Curtain Colours

STANDARD- Black

* Please refer to sales team for other colors

Dimension Chart

				TUNNEL DIMENSIONS		
		UPPER BLOCKAGE	SIDE BLOCKAGE	Width	Height	Depth
MODELS	TD 101	1350	650	3500	3500	1000
	TD 202	1350	650	3500	4000	1000
	TD 303	1350	650	3500	4500	1000
	TD 404	1750	650	3500	3500	1000
	TD 505	1750	650	3500	4000	1000
	TD 606	1750	650	3500	4500	1000



CASAPORT DOCKHOUSE



ROOF

- PU filled facade panel or trapezium steel sheet
- Special design that prevents water accumulation

SIDE AND FRONT FACADE

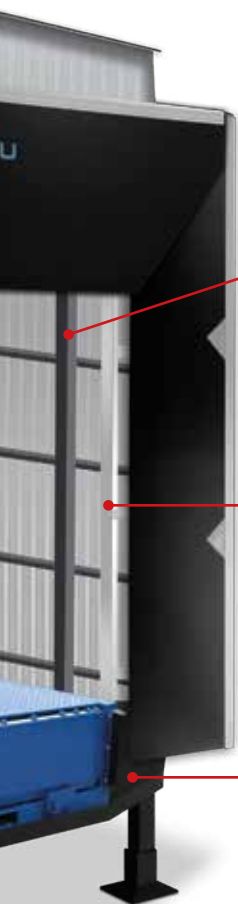
- PU filled facade panel or trapezium steel sheet

DOCK SHELTER (Optional)

DOCK LEVELER (Optional)



*It's not yet
too late...*



FRAMEWORK

- Light and Strong steel construction framework for easy installation

FRONT FRAME

- Made of galvanized box profile

DOCK LEVELER PLATFORM

(Optional)

- Steel bottom pit framework in case of dock leveler usage
- Feet with height adjustable

Inner View



DOCK HOUSE DIMENSIONS

- Production at required sizes

APRON & PASSAGE DOCK TUNNELS



FRONT PVC CURTAINS (Optional)

- Braided PVC curtains with 3 mm thickness

FRONT PVC FIXATION LATHS

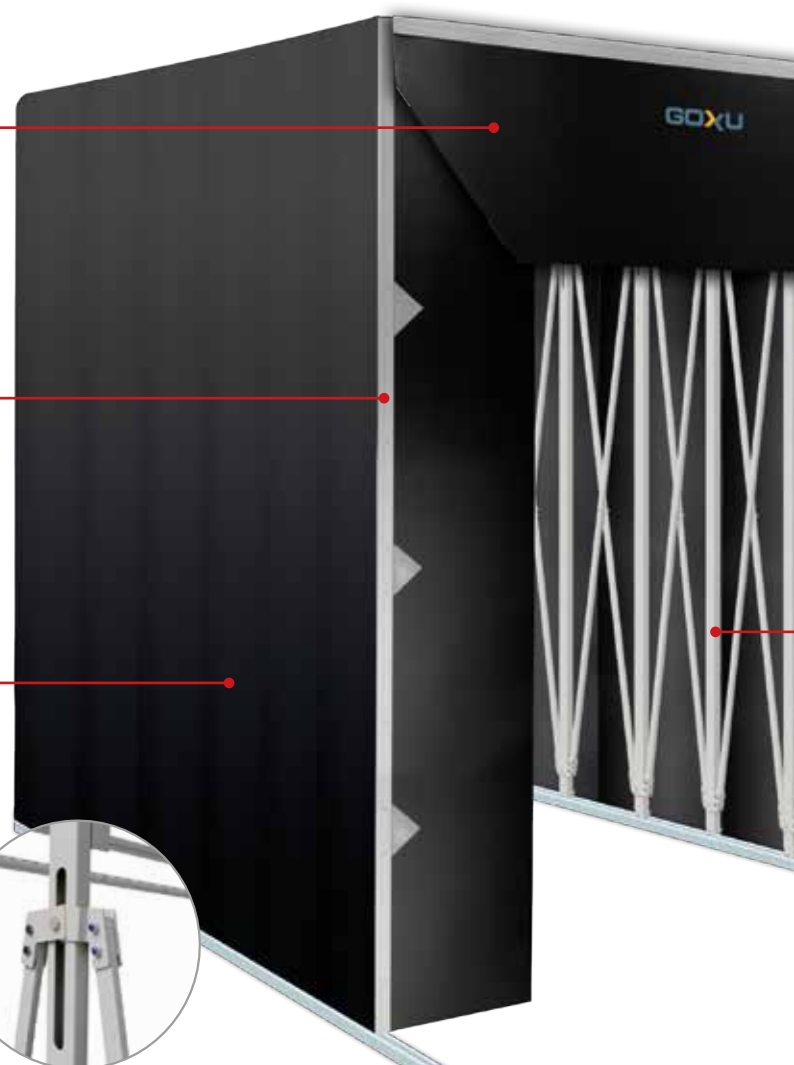
- Made of anodized extruded aluminum

SIDE CURTAIN

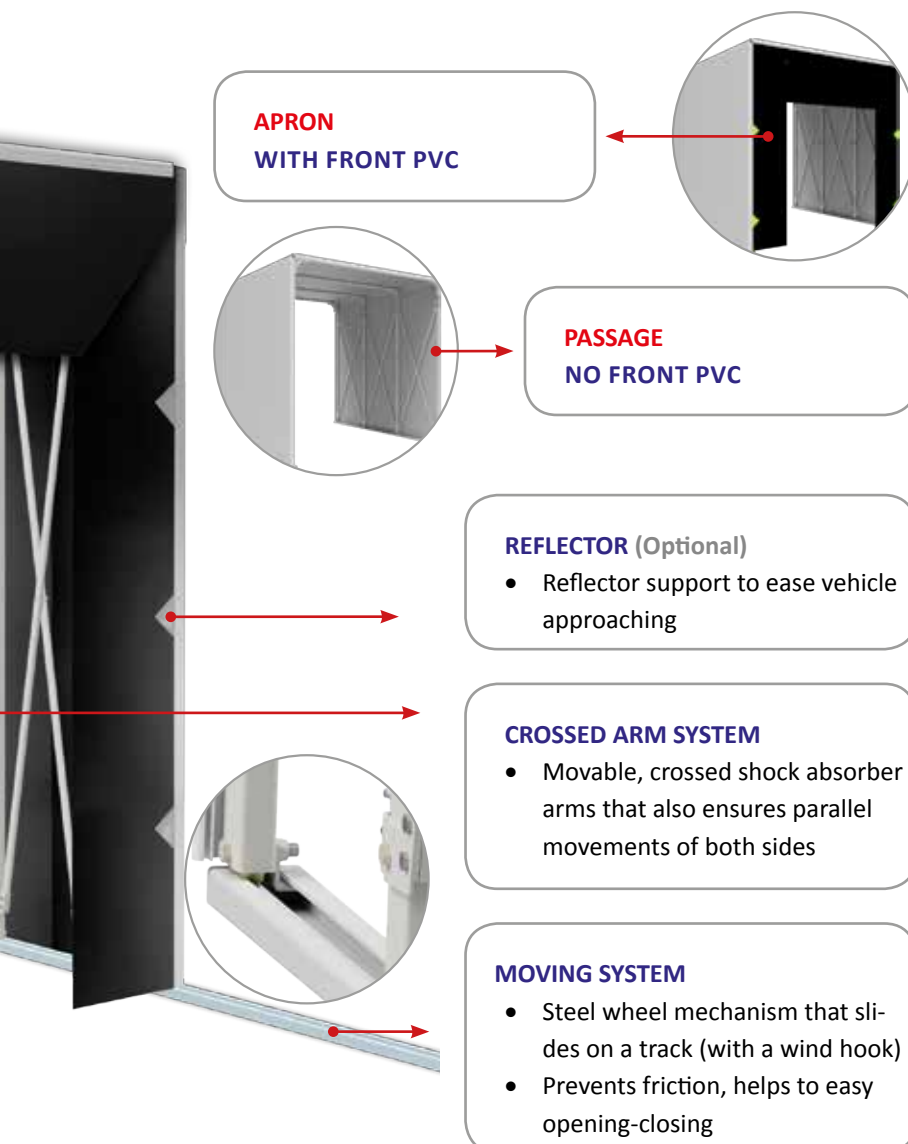
- European sourced PVC tarpaulin, 680 gr/m²

TOP AND BOTTOM JUNCTIONS

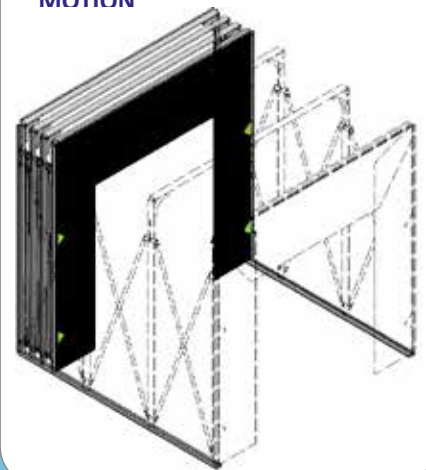
- Ensures strong fixation against wind load



Special solutions to “special” needs...



TUNNEL OPENING-CLOSING MOTION



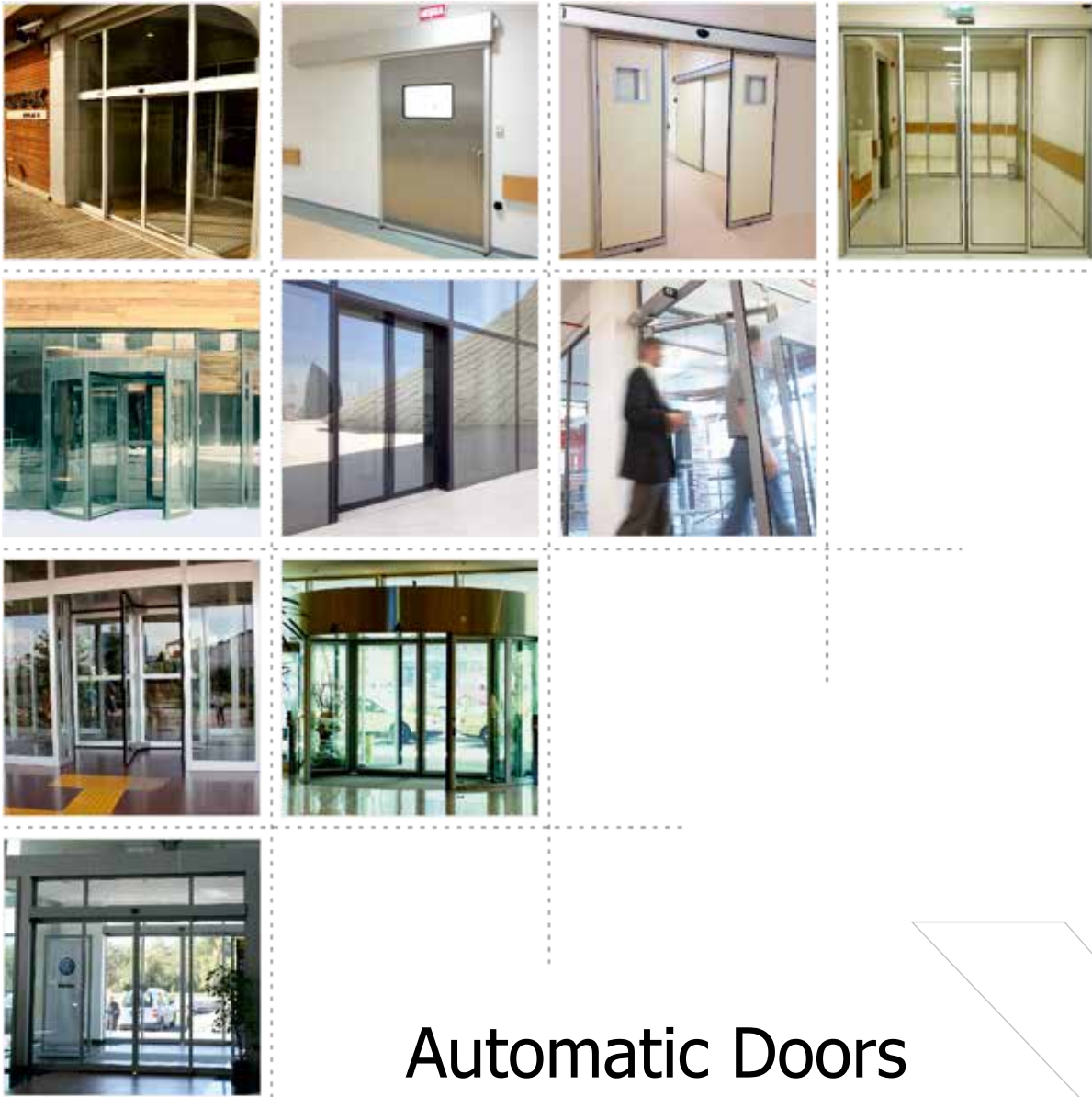
Tarpaulin and PVC Curtain Colours

STANDARD - Black

* Please refer to sales team for other colors

Dock Tunnel Dimensions

Production at required sizes



Automatic Doors

- Sliding Doors
- 90° Automatic Doors
- Telescopic Doors
- Hermetic and Hospital Doors
- Revolving Doors

Let your door bring prestige to your building

Enjoy "Automatic Sliding Door"

comfort in every moment of life.



VIRA



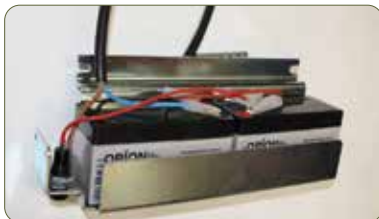
Motor Alternatives

- ✓ German Dunker Motor
- ✓ GOXU Motor



Carriage

Carriage with 3-wheels
adjustable leaf height



Battery

(Optional)

Battery system that ensures the
operation of the door in case of
black out



Control Unit

Control Unit with embedded LCD
Monitor, programable with or
without function selector

Electro-mechanical Lock

(Optional)

Motorized lock that prevents the
leaves to be opened by force



Time and energy saving



External Programmer

(Optional)

- Programs Parameters and Operation Modes
- LCD Monitor with back light
 - Buzzer



Wireless Operation Mode

Controller (Optional)

- Select operation mode with one click
 - Easy to use
 - Uses wireless RF



Rubber Casing Profile

- Connects Track Support and Casing Profiles together
- Prevents noise, vibration and dust



Rubber Damping Profile

Prevents noise and vibration

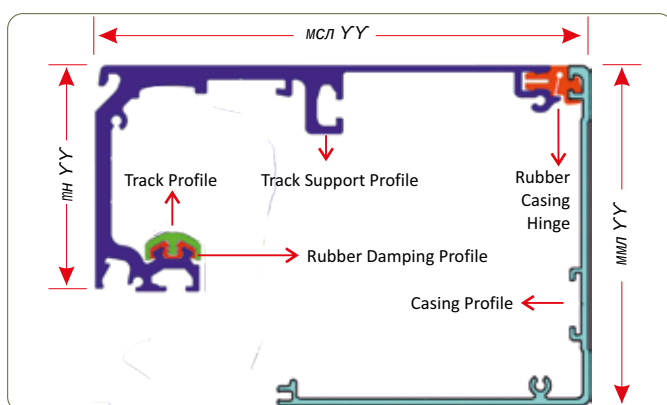
Cover Holding Bar

Provides easy maintenance





VIRA



PROFILES FOR THE MECHANISM

TECHNICAL SPECIFICATIONS	T40	T30
Operating Voltage	165 Vac -240 Vac 50 Hz	165 Vac -240 Vac 50 Hz
Power Consumption	250 W 1,5 A	250 W 1,5 A
Power Supply	SMPS 150W 27 Vdc	SMPS 150W 27 Vdc
Motor Brand	DUNKER	LOCAL
Applied Voltage	24 Vdc	24 Vdc
Torque	100 W	100 W
Dimensions of the Mechanism	72 x 160 x 110 mm	72 x 160 x 110 mm
Opening Speed	1 Leaf :90 cm/sec 2 Leaves :180 cm/sec	1 Leaf :90 cm/sec 2 Leaves :180 cm/sec
Closing Speed	70% of opening speed	70% of opening speed
Maximum Door Weight	1 Leaf: 130 kg 2 Leaves: 100 kg	1 Leaf: 130 kg 2 Leaves: 100 kg
Height Adjustment	±8 mm	±8 mm
Run Time Ratio	% 100	% 100
Impact Detection	Encoder detection with microprocessor	Encoder detection with microprocessor
Remote Control	OPTIONAL	OPTIONAL
Protection Class	IP X0	IP X0
Limit Switch Control	Encoder	Encoder
Operating Temperature	-15 °C / 55 °C	-15 °C / 55 °C
Communication Protocol	Rs485	Rs485

*Performance,
elegance and quality
all together*



KIT CONTENT FOR ONE-LEAF



Kit Content For One-Leaf;

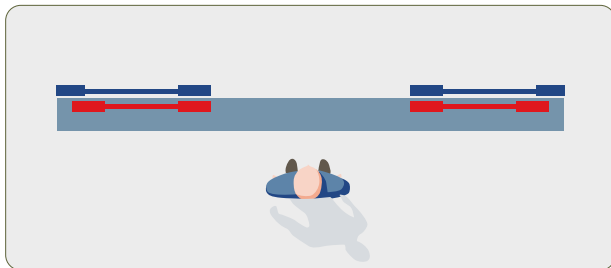
- 1 pc. Dunker Brand Motor
- 1 pc. Control Unit with LCD Monitor, in plastic cover
- 1 pc. Switch-Mode Power Supply (SMPS) in plastic cover
- 1 set side cap
- 2 pcs. Roller carriages
- Antistatic carbon brush
- Reverse pulley
- 1 set locking strap for electro-mechanical lock connection.
- Cover Holding Bar
- Power cable
- Power Socket
- Extension cable
- GOXU Blob Tag
- Installation Manual
- Cardboard Box and fasteners, plastic cable channels
- Belt Clamp



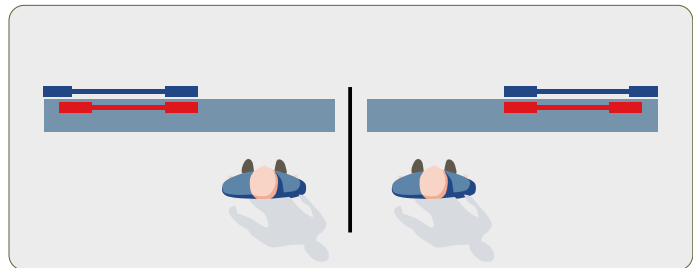
VIRA



APPLICATION ALTERNATIVES



Two-leaves



One-leaf

LEAF ALTERNATIVES



OUTLINE
(Wide Profile System)



NEWLINE
(Slim Profile System)



VIEWLINE
(Frameless System)

*Design your own door
with wide number
of options*



ACCESSORIES



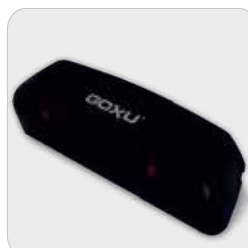
Microwave Radar (local)



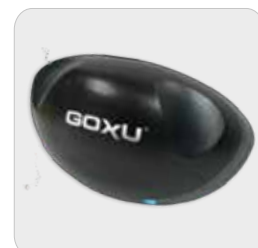
3H-IR14 Activation
and Safety Sensor



Radec M
Microwave Radar



Prime Motion C
Microwave Radar



HR50-BI
Microwave Radar



Bb10 Beam Photocell



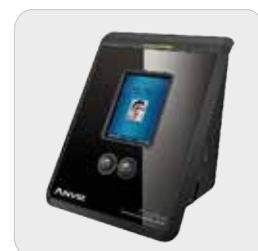
Wireless Operation
Mode Controller



24 Vdc Battery Kit



Electro-mechanical lock



Face Recognition
Access Control System



Touchless, Automatic Door
Activation Switch
(Surface Mounted)



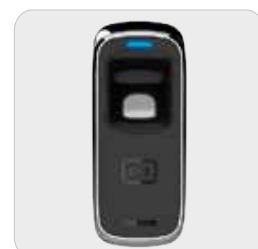
Card-reader With Keypad



Automatic Door
Activation Button



External Programmer



Fingerprint
Access Control System





Your health is entrusted to us!

*Specially designed "**Hospital Doors**"*

provide sterilized environments....





HOSPITAL DOORS



HERMETIC DOOR WORKING PRINCIPLE

Provides full impermeability in pressured sterilized environments by operating in three axes.

It applies force on four points when it is closed.

WING ALTERNATIVES

- Compact laminant
- Stainless Steel
- MF-MDF
- X-Ray (Optional)

PROTECTION SPECIFICATIONS

-  Heat
-  Air
-  Light
-  Sound
-  Dust
-  Bacteria



Functional pass systems in sterilized and hygienic environments...



PRESSURE



HYGIENE



HERMETIC



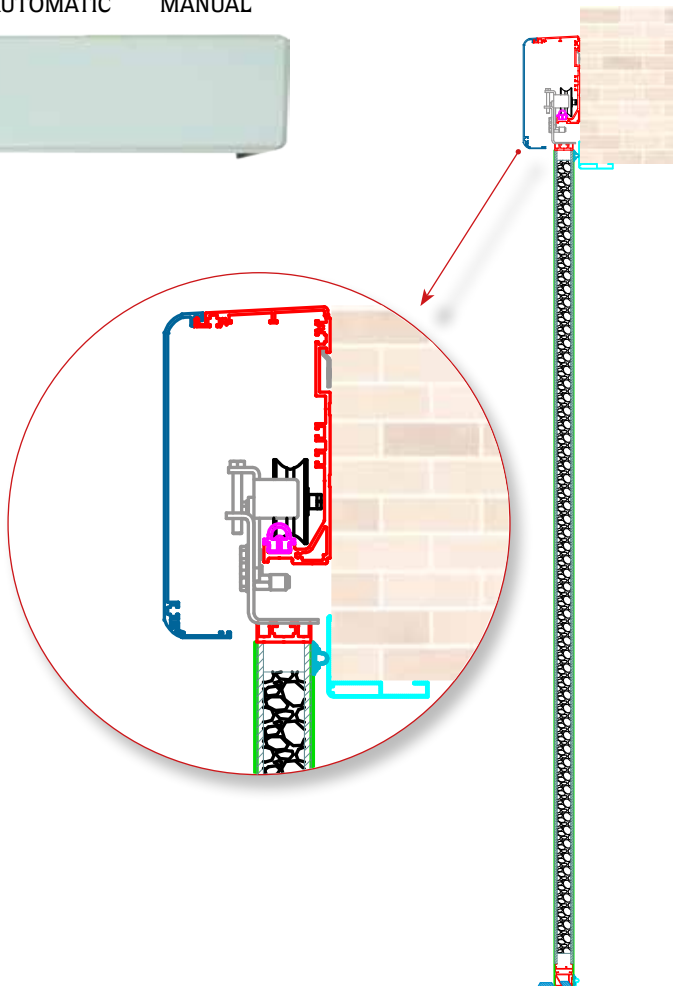
X-RAY



AUTOMATIC



MANUAL



WING (Optional)

- Stainless Steel, compact laminated, MDF Laminated
- X-Ray

OPTIONAL ACCESSORIES

- Card-Coded Passing
- Hand proximity Sensor
- Button
- Viewing Window
- Knee-Elbow Button
- Radar

AREA OF USAGE

- Hospitals
- Laboratories
- X-Ray Rooms
- Medicine Industry
- Food Industry
- Production Ateliers

Hermetic doors for sterilized areas, hygienic doors for half-sterilized areas, sliding doors with radar for controlled passes can be controlled with passcode/card/button activators.



*Quality and
prestige welcomes
your guests
“Revolving Doors” add value to your building.*





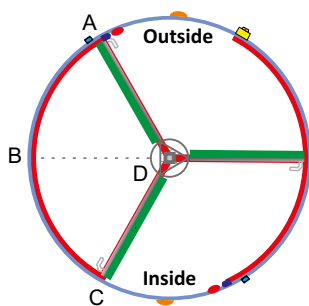
REVOLVING DOORS



THREE-WING REVOLVING DOORS

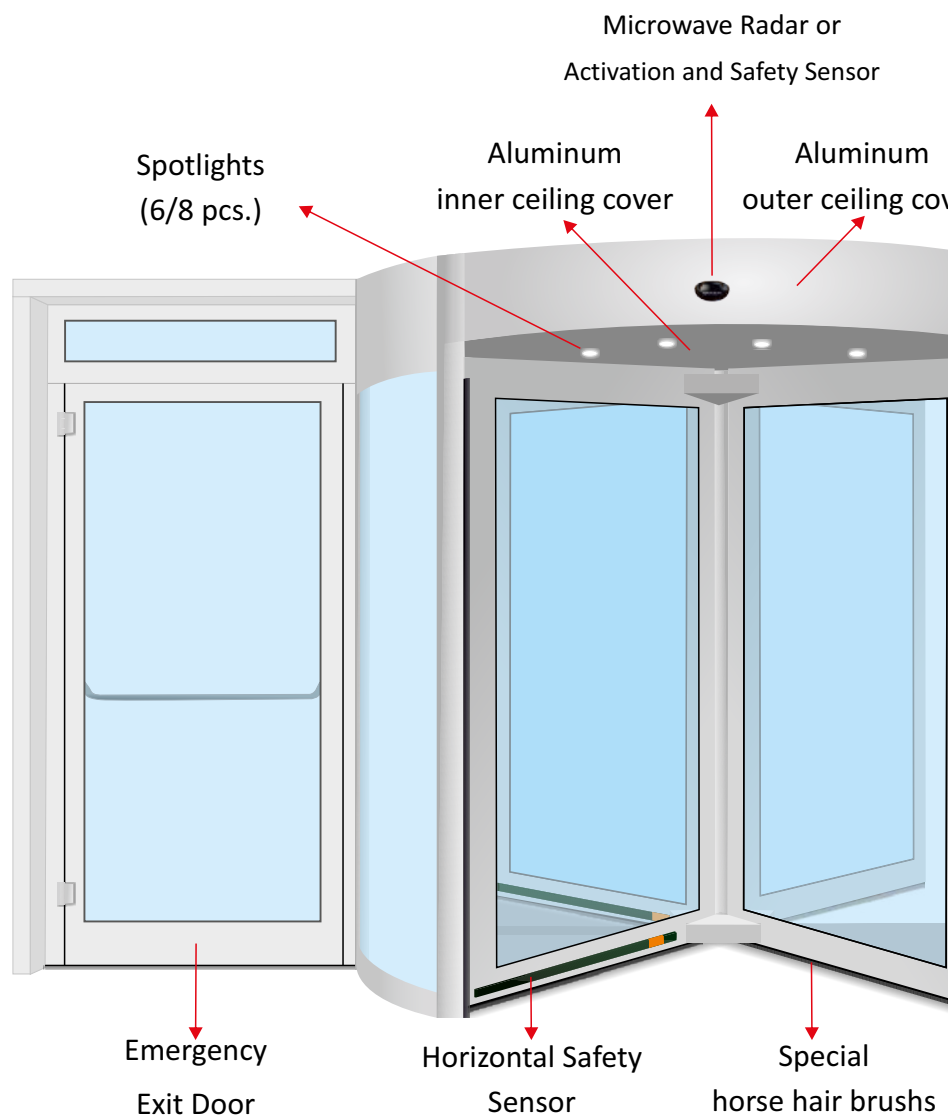
They are equipped with three-wings connected to the rotating middle shaft. They provide narrower passage-width with larger internal partitions.

THREE-WING APPLICATION

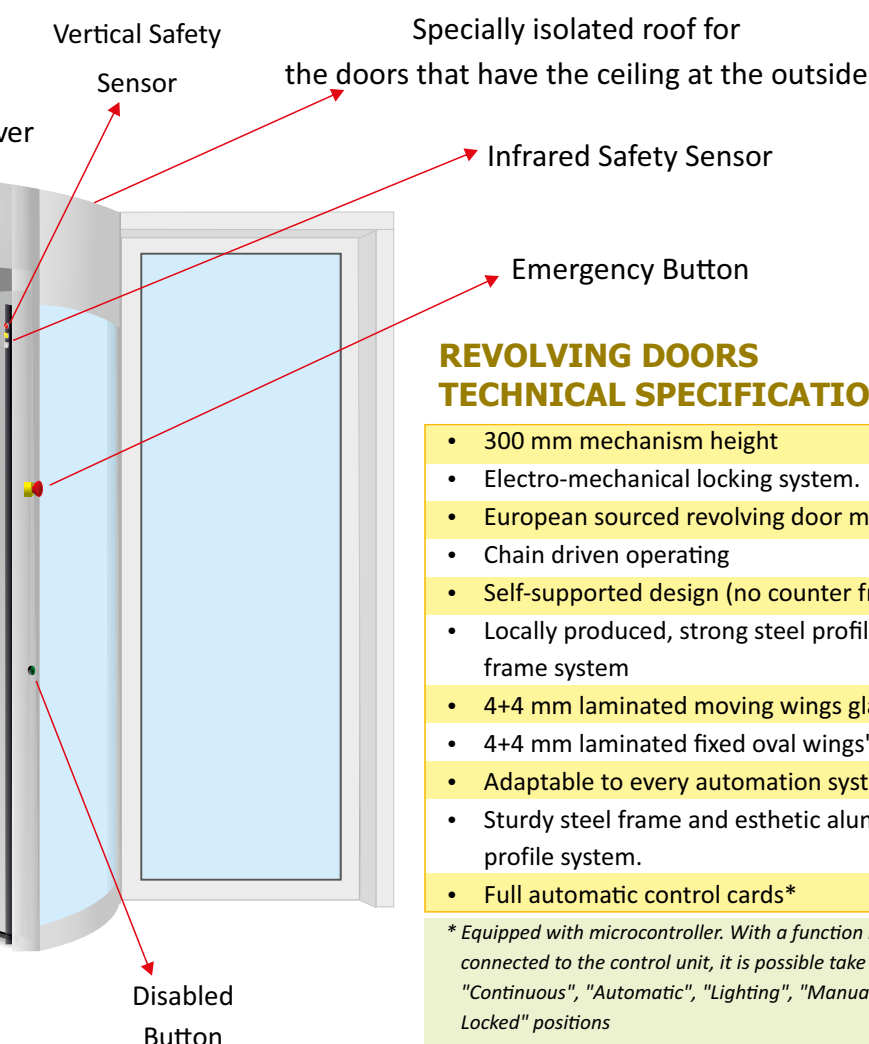


OPTIONAL

- Break-out wing
- Stainless steel ground circle
- Handle
- Mat



Esthetic, technologic and prestigious pass systems...



REVOLVING DOORS TECHNICAL SPECIFICATIONS

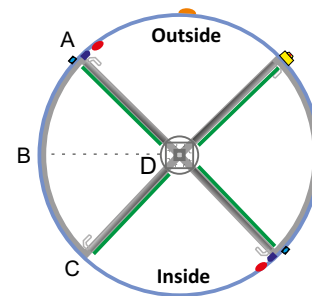
- 300 mm mechanism height
- Electro-mechanical locking system.
- European sourced revolving door motor
- Chain driven operating
- Self-supported design (no counter frame)
- Locally produced, strong steel profile and frame system
- 4+4 mm laminated moving wings glasses
- 4+4 mm laminated fixed oval wings' glasses
- Adaptable to every automation system
- Sturdy steel frame and esthetic aluminum profile system.
- Full automatic control cards*

* Equipped with microcontroller. With a function key that is connected to the control unit, it is possible take the door to "Continuous", "Automatic", "Lighting", "Manual" and "Locked" positions

FOUR-WING REVOLVING DOORS

They are equipped with four-wings connected to the rotating middle shaft. They provide wider passage-width with smaller internal partitions.

FOUR-WING APPLICATION



COLOUR OPTIONS

Can be painted to RAL colors alongside natural eloxal (EV1) and other eloxal options (except phosphoric colors). Stainless and yellow stainless coating are available.





Rolling Shutters

- Rollformed Steel Profile Shutters
- Polyurethane Injected Profile Shutters
- Extruded Aluminum Profile Shutters

the steel armour of your business...

*“rolling shutters” protect you
from external factors and ensure your safety..*

your business is always safe...

*you do not need to worry for your investments
where your steel rolling shutter is protecting your business...*



Advantages of Steel Rolling Shutters

-  Protects from wind
-  Protects from sunlight
-  Protects from noise
-  Protects from dust
-  Protects from foreign objects
-  Protects from thefts
-  Protects from outside views

Optional Colours

Standard Slat Colours



Galvanized



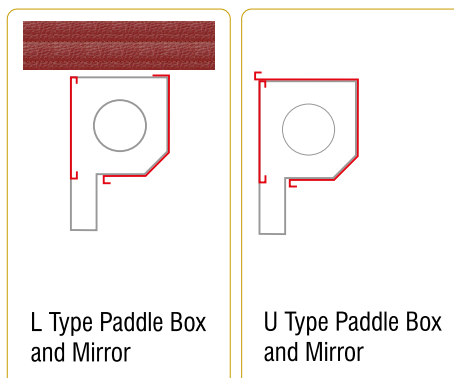
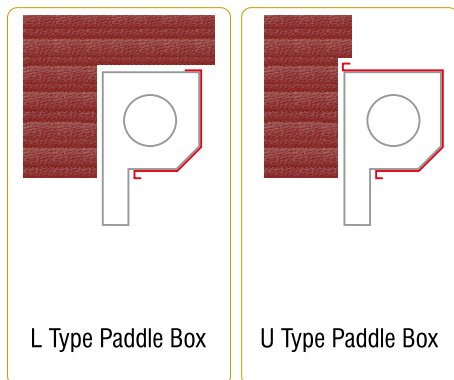
Rollformed steel profiles
can be painted to
all RAL colours



*Convenient solution details with different colour and
slat options according to your needs and preferences*



Application Options

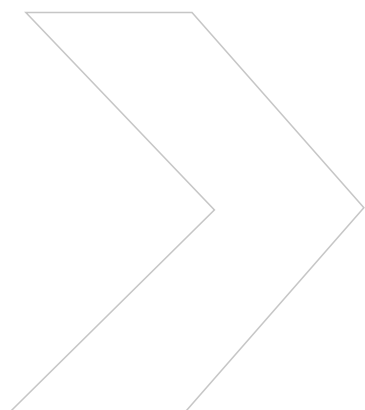
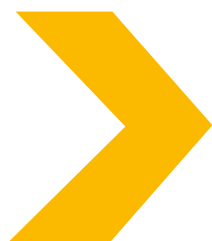


Slat Options

 RFC 75 Flat	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>75 mm</td><td>0,6 mm</td></tr><tr><td>75 mm</td><td>0,7 mm</td></tr><tr><td>75 mm</td><td>0,8 mm</td></tr><tr><td>75 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	75 mm	0,6 mm	75 mm	0,7 mm	75 mm	0,8 mm	75 mm	1,0 mm	 RFC 115 Flat	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>115 mm</td><td>0,7 mm</td></tr><tr><td>115 mm</td><td>0,8 mm</td></tr><tr><td>115 mm</td><td>0,9 mm</td></tr><tr><td>115 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	115 mm	0,7 mm	115 mm	0,8 mm	115 mm	0,9 mm	115 mm	1,0 mm
Slat Close Area	Thickness																						
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 RFC 75 Micro P.	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>75 mm</td><td>0,8 mm</td></tr><tr><td>75 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	75 mm	0,8 mm	75 mm	1,0 mm	 RFC 115 Micro P.	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>115 mm</td><td>0,7 mm</td></tr><tr><td>115 mm</td><td>0,8 mm</td></tr><tr><td>115 mm</td><td>0,9 mm</td></tr><tr><td>115 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	115 mm	0,7 mm	115 mm	0,8 mm	115 mm	0,9 mm	115 mm	1,0 mm				
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 RFC 97 Flat	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>97 mm</td><td>0,9 mm</td></tr><tr><td>97 mm</td><td>1,0 mm</td></tr><tr><td>97 mm</td><td>1,2 mm</td></tr></table>	Slat Close Area	Thickness	97 mm	0,9 mm	97 mm	1,0 mm	97 mm	1,2 mm	 RFC 115 Window P.	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>115 mm</td><td>0,7 mm</td></tr><tr><td>115 mm</td><td>0,8 mm</td></tr><tr><td>115 mm</td><td>0,9 mm</td></tr><tr><td>115 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	115 mm	0,7 mm	115 mm	0,8 mm	115 mm	0,9 mm	115 mm	1,0 mm		
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 RFC 97 Micro P.	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>97 mm</td><td>0,9 mm</td></tr><tr><td>97 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	97 mm	0,9 mm	97 mm	1,0 mm	 RFC 115 Special P.	<table><tr><th>Slat Close Area</th><th>Thickness</th></tr><tr><td>115 mm</td><td>0,7 mm</td></tr><tr><td>115 mm</td><td>0,8 mm</td></tr><tr><td>115 mm</td><td>0,9 mm</td></tr><tr><td>115 mm</td><td>1,0 mm</td></tr></table>	Slat Close Area	Thickness	115 mm	0,7 mm	115 mm	0,8 mm	115 mm	0,9 mm	115 mm	1,0 mm				
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 PCB 77	<table><tr><td>White</td><td>9002</td></tr><tr><td>M.Grey</td><td>9006</td></tr></table>	White	9002	M.Grey	9006	 PCB 95	<table><tr><td>White</td><td>9002</td></tr><tr><td>M.Grey</td><td>9006</td></tr></table>	White	9002	M.Grey	9006												
White	9002																						
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M.Grey	9006																						
																							



Fire Rated Rolling Shutters





Confine the fire to its source!
***“Fire rated
rolling shutters”***
provide you effective solutions

FIRE RATED STEEL ROLLING SHUTTER

SINGLE SKIN GALVANIZED STEEL SLAT

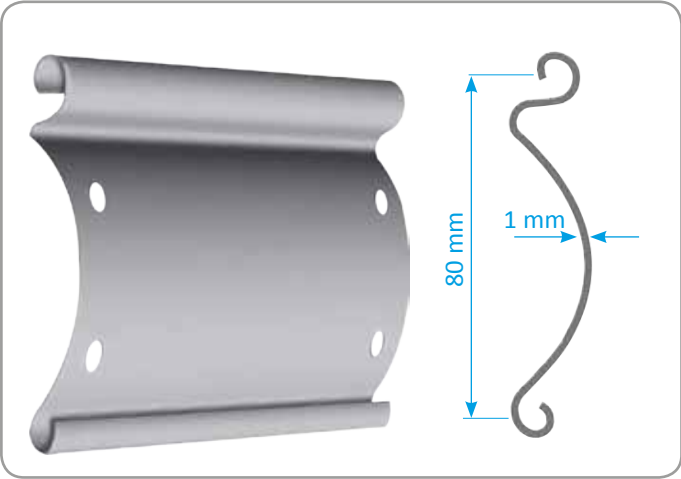


DOOR MATERIAL

- Single skin galvanized steel slat
- 1 mm sheet thickness
- 80 mm slat height with special reinforcement grooves.
- Up to 180 min (3 hours) fire resistance
- Up to 700 Pa wind resistance

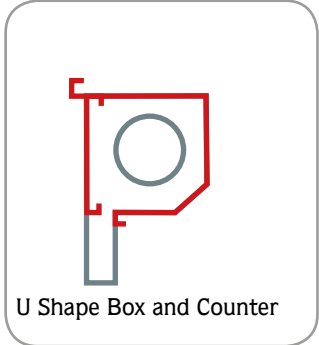
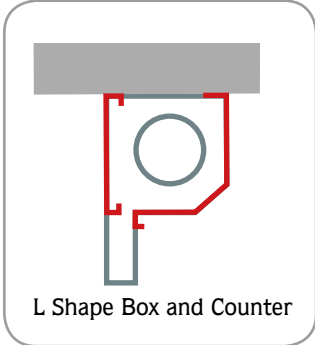
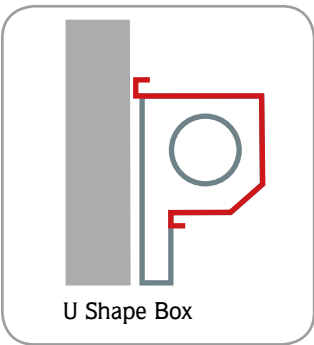
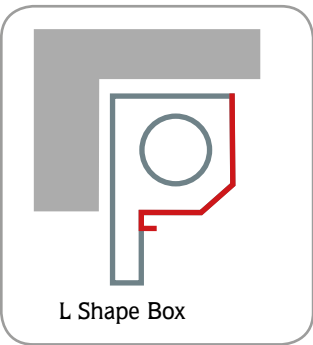


Galvanized steel
side tap for
80 mm. slat



THICKNESS	WEIGHT PER METER	WEIGHT PER SQUARE METER	WIND RESISTANCE	FIRE RESISTANCE
(mm)	(kg/m)	(kg/m ²)	(Pascal)	(minutes)
1,00 x 2	1,070	15,300	700	180

APPLICATION ALTERNATIVES



FIRE RATED STEEL ROLLING SHUTTER

ROCKWOOL INSULATED DOUBLE SKIN GALVANIZED STEEL SLATS

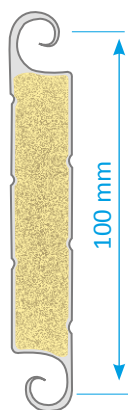


DOOR MATERIAL

- Double skin galvanized steel slats
- Rockwool insulation in between
- 2 x (0,6 -0,8-1,00) mm sheet thickness
- 100 mm slat height with special reinforcement grooves
- Up to 180 min (3 hours) fire resistance
- Up to 2500 Pa wind resistance



Galvanized steel
side tap for 100 mm.
double skin slat



- The density of the rockwool is 110 kg/m³
- 30 kg/m³ Rockwool heat conductivity coefficient: 0,0344 W/m²K
- 110 kg/m³ for rockwool= 0,019
- For a 2 cm section = 1,05 W/m²K
- 0,70 mm wall thickness between 2 metal surfaces = 0.09 for sheet metal
- In total = 0,09 + 1,05 + 0,09 = 1,23 W/m²K

- Galvanized steel
- Roll-form production
- Suitable for wide openings
- High resistance
- Rockwool or isolation material insertable

DOUBLE SKIN STEEL

* Friction ratio is not included.

THICKNESS	WEIGHT PER METER	WEIGHT PER SQUARE METER	WIND RESISTANCE	FIRE RESISTANCE
(mm)	(kg/m)	(kg/m ²)	(Pascal)	(minutes)
0,60 x 2	1,708	17,080	700	180
0,80 x 2	2,278	22,785	1000	180
1,00 x 2	2,800	28,160	2500	180

FIRE RATED STEEL ROLLING SHUTTER

GENERAL SPECIFICATIONS

WHERE TO USE

- Provides a safety barrier between the source of the fire and the living area.
- Confines the danger until responding to the fire.

AUTOMATIC CLOSING SYSTEM

- Equipped with an automatic closing system that runs in accordance with fire automation and fire scenarios in case of fire.

FUSIBLE-LINK

- Automatic mechanical closing at 73 °C by Fusible-link.

INSULATION

Provides;

- Fire insulation
- Weather insulation
- Radiation insulation

CERTIFICATION

Fire rated rolling shutters;

- are tested in real conditions in accordance with STN EN 1634-1/ AC:2007 standard and certified by accredited UKAS test laboratories.
- are considered within the group of E180-C0 / EW 15-C0 in accordance with fire resistance test and are proven to be kept its integrity within 180 minutes (3 hours).

OPTIONAL

- Can optionally be equipped with utilization systems such as connecting to fire warning system etc.



BOTTOM FRAME

- Supported with galvanneal steel bars



TRACK

- Track size: 120x75x2 mm Galvanneal steel



PIPE

- Pipe Size: Ø139x3 mm or Ø159x4 mm

FIRE RATED STEEL ROLLING SHUTTER

FIRE RATED ROLLING SHUTTER OPENER

PRODUCTS FEATURES

- Pleasing designs with powerful drive
- With 120°C thermic protection
- Stable and reliable braking, accurate limited control positioning, with double limit switch protection, can prevent door over roll-up.
- Manual operation when power-off
- Powerful, low noise, lower energy consumption.
- Easy to install, easy to maintain and long useful life.
- With the national patent of Chain-break protection device



412-3P, 647-3P, 809-3P (600/800/1000)

(rated-load 800kg/1000kg.
single phase/three phase
fireproof motor)



1617-3P (1300/1500)

(rated-load 1300kg/1500kg/
600kg single phase/three
phase fireproof motor)



2450-3P (2000)

(rated-load 2000kg. three
phase fireproof motor for
outdoor installation)



Fire motor specifications and technical parameters - Three phase 3P fireproof motor

MODEL	Rated Output Torque	Rated Output Speed	Motor Power	Rated Voltage Frequency	Rated Current	Duty Cycle	Standard Roll up Parameter	
							Drum Tube Outer Diameter	Maximum Lifting
	(N-m)	(r/min)	(W)	(V/Hz)	(A)	(min)	(mm)	(kg)
412—3P	412	4,8	250	380/50	1,5	15	140	600
647—3P	647	4,0	370	380/50	2,3	15	165	800
809—3P	809	3,5	370	380/50	2,8	15	165	1000
1401 —3P	1401	4,4	850	380/50	3,2	15	219	1300
1617—3P	1617	5,2	1000	380/50	3,8	15	219	1500
2450—3P	2450	3,6	1000	380/50	4,1	15	245	2000

FIRE RATED STEEL ROLLING SHUTTER

FIRE RATED ROLLING SHUTTER CONTROL SYSTEM

Rated voltage:

- Three-phase: AC 380V
- Frequency: 50HZ



CONTROL SYSTEM FEATURES (INTERNAL SIDE)

- Quick reaction in case of over heat or fire.
- Equipped with multiple plug socket that can be connected with smoke sensor, temperature sensor and the fire center control signal linkage.
- Equipped with multiple fault detection, and fault parts display, with sound light alarm function.
- Easy to install.
- External button can be connected.
- Open-Close-Partly Open information is displayed.



CONTROL SYSTEM FEATURES (EXTERNAL SIDE)

- Open-Close-Stop functions.
- Reset function.
- Mute function of fire alarm sound.
- System check function.
- Manual lock function.



FUSIBLE-LINK

- Automatic mechanical closing at 73 °C by Fusible-link.

*Whenever you need
a cost sensitive solution,
“rolling and sliding shutter”
are right for you...*

ROLLING AND SLIDING SHUTTER

Roll-up System Protect you from:



Cold weather in winter



Hot weather in summer



Storm and strong wind



Sun lights



Noise



Dust



Solid and foreign objects

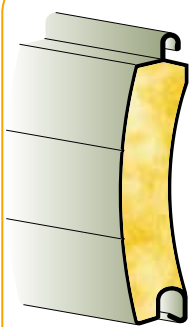


Burglars

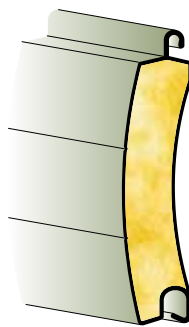


Foreign eyes

Slat Options



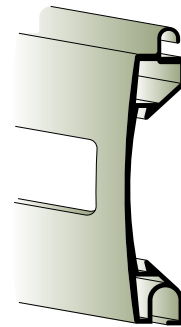
PAB (39 - 55 - 77)
PU Filled Aluminum
Slat



PCB (77 - 95)
PU filled Painted Steel
Slat



GEX (55 - 77)
Extruded Aluminum
Slat



TEX - 77
Extruded Aluminum
Slat with Window

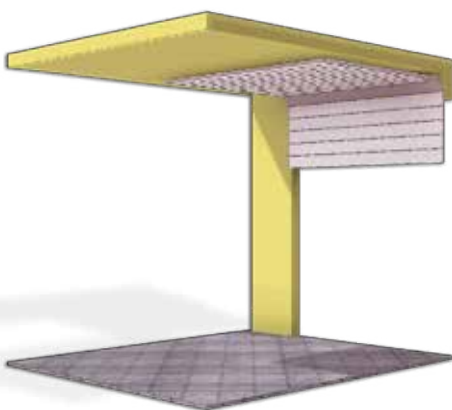
White
Metallic Gray
Brown
Cream
Anthracite Gray

White
Metallic Gray

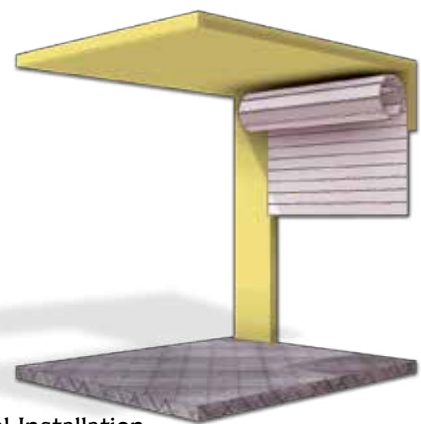
All colors in RAL
Catalogue except
luminous colors



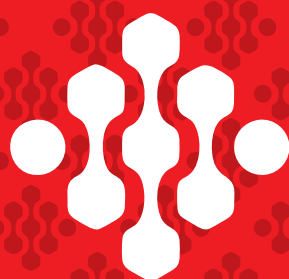
Application Alternatives



90° Installation



Spiral Installation



OTAC

www.otac-fr.com



Window Shutters

- Polyurethane Injected Profile Shutters
- Extruded Aluminum Profile Shutters

No need to worry anymore...

let “window shutters” protect your home and

work place from external effects





armour for your home...

*rolling shutters protect your home
and give privacy*



Colour Options

TAX

Extruded Slat Colours

			
Pres	9016 White	7038 Grey	8014 Brown
			
9006 Metallic Grey	1015 Creme	1350 Light Beige	



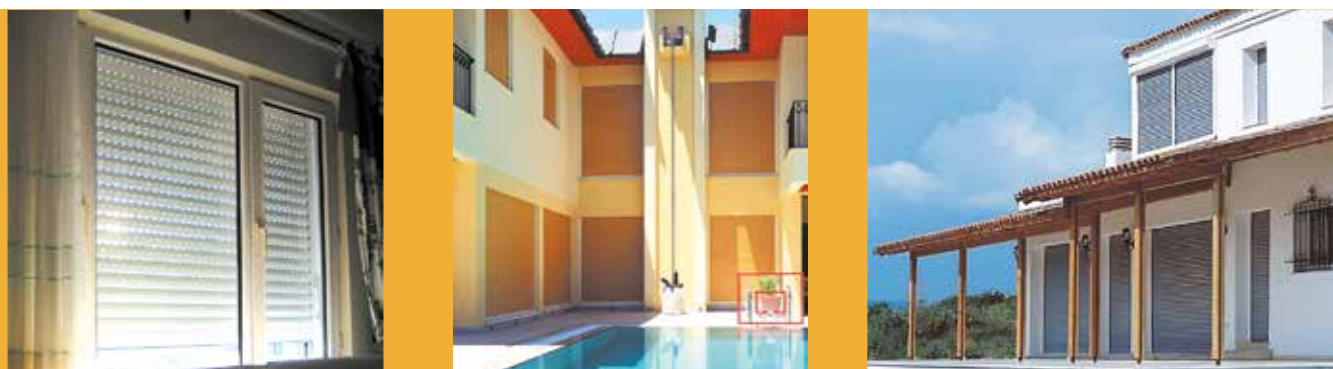
Extruded aluminium slats can be painted to colours above, or to colours from RAL list.

TSP

Polyurethane foam filled PVC laminated steel slat colours

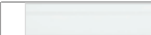
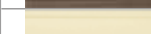
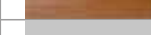
	
White (9002)	Grey (9006)

Slat and colour options according to your preferences and requirements

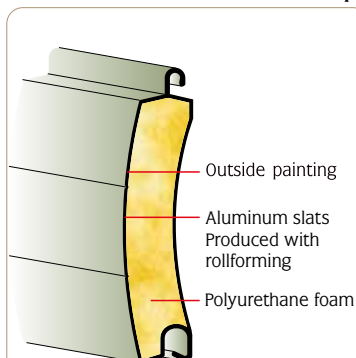


TAP

Polyurethane foam filled aluminum slat colours

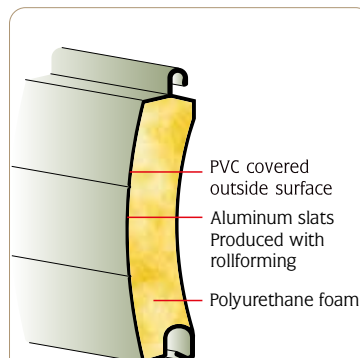
		RAL NO	39	55	77	95
	White	9016	●	●	●	●
	Brown	8014	●	●	●	
	Metallic Grey	9006	●	●	●	●
	DarkWood	-	●	●	●	
	Bronze	-	●	●		
	Creme	1015	●	●	●	●
	Dark Beige	1019	●	●		
	Mahogany	8016	●	●		
	MahoganyWood	-	●	●		
	Light Beige	-	●	●	●	
	Moss Green	6005	●	●		
	Black	8022	●			
	Golden Oak	-	●			
	Grey	7030	●	●	●	
	LightWood		●	●		

Slat Options



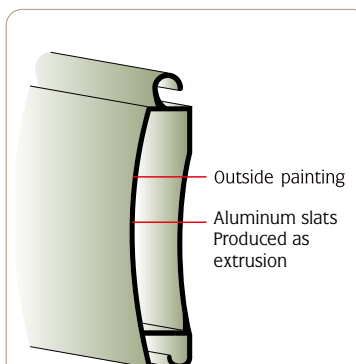
PAB (39 - 55 - 77)

Polyurethane foam filled aluminum slat



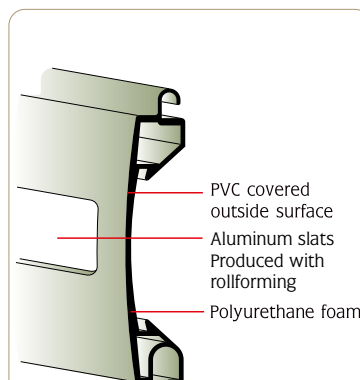
PCB (77 - 95)

Polyurethane foam filled, painted steel slat



GEX - 55-77

Extruded aluminum slat



TEX - 77

Extruded aluminum slat with window

security guard of your work place...

shutters protect your work place

and make secure



Security Systems



Photocells



Sensors for sun and wind

*Solutions for security, comfort, isolation
and easy usage*



Isolation Solutions



Bottom profile Bottom seal

Manual Mechanisms



Automatic Drum

Automation



Tubular Motor



Central Motor

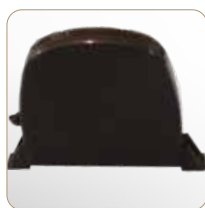


Chain Driven Motor

Locks



Cylinder lock



Automatic Drum



Cabled
Control Units



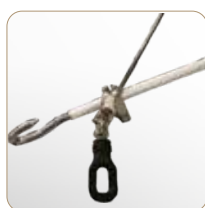
Wireless
Control Units



Key switch



Block lock system



Manual
Opening Arm



Control Unit



Remote controls



Radio Receiver
Remote Control with
Surface Mounted Button



flexible usage...

*multiple application areas including
balcony covering.*



Advantages of Rolling Shutters

-  Protects from cold in winter
-  Protects from hot in summer
-  Protects from wind
-  Protects from sunlight
-  Protects from noise
-  Protects from dust
-  Protects from foreign objects
-  Protects from thefts
-  Protects from outside views

Application Areas

- Villas, apartment windows
- Working places' windows
- Working places' doors
- Balcony coverings
- Garage doors on obligatory and special situations



*Solutions for different lintels, wall
and building types*



Application Options



DKD
Outside Rolling Box Included



DKH
Outside Rolling Box not Included



DDL
Outside Rolling Box Detail



DDS
Outside Rolling Without Box Detail



DDM
Outside Rolling Distant



IDK
Inside Rolling Including Box



IDL
Inside Rolling Box Detail



IDS
Inside Rolling without Box Detail



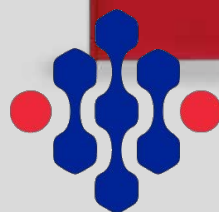
PIM
Installation Inside Window



Fire Rated Doors

- Fire Rated Leaf Doors
- Glass Fire Rated Doors
- Fire Rated Sliding Doors
- Smoke and Fire Curtains
- Multi Purpose Steel Leaf Doors

*The functionality of
“**Fire Rated Doors**” is
crucial for
security of life*



OTAC

www.otac-fr.com

GOXU

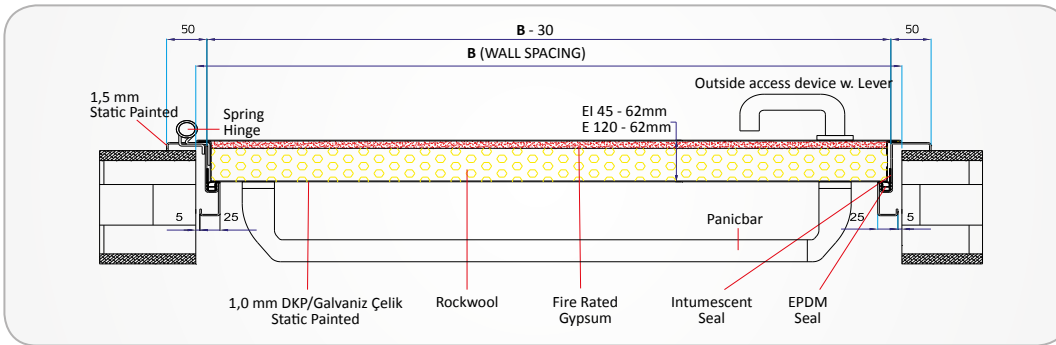
— World Wide Open —

SINGLE-LEAF FIRE DOORS

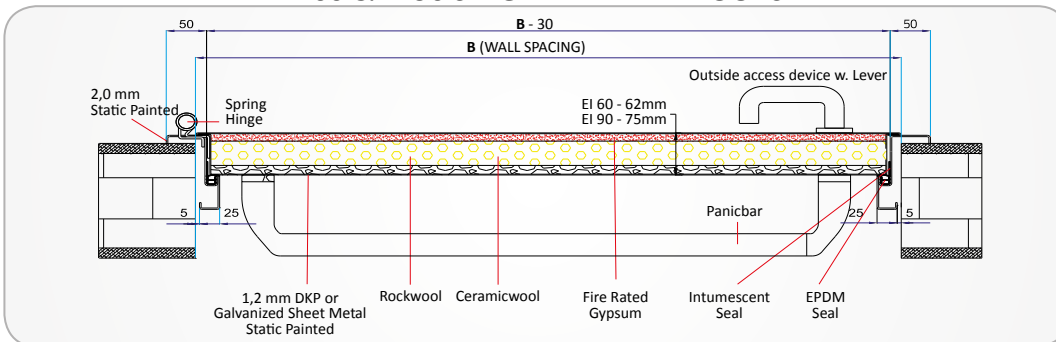


- It is used to protect fire exit points from fire and as well as to provide necessary time to make fast evacuation in case of fire.
- It provides fast opening with panic bar (optional) in case of panic
- It provides controlled passage with a viewing window (optional).
- It contains sprung hinges to provide automatic closing. If equipped with hydraulic arm (optional) it provides ability to be used more frequent.

EI 45 SINGLE LEAF FIRE DOORS



EI 60 & EI 90 SINGLE LEAF FIRE DOORS



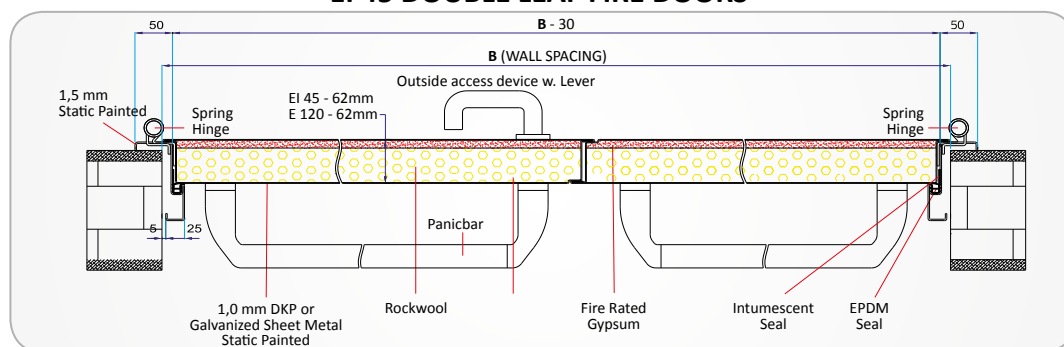
Standard	EN 1634-1	EN 1634-1	EN 1634-1
Fire Rating	E Class 120 min. EI Class 45 min.	E Class 120 min. EI Class 60 min.	E Class 120 min. EI Class 90 min.
Dimensions	Width: 1150 mm Height: 2400 mm	Width: 1150 mm Height: 2400 mm	Width: 1150 mm Height: 2400 mm
Frame	1,5 mm DKP or Galvanized Sheet Metal	2,0 mm DKP or Galvanized Sheet Metal	2,0 mm DKP or Galvanized Sheet Metal
Leaf	1,0 mm DKP or Galvanized Sheet Metal	1,2 mm DKP or Galvanized Sheet Metal	1,2 mm DKP or Galvanized Sheet Metal
Leaf Thickness	62 mm	62 mm	75 mm
Insulation	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum, 128 kg/m ³ Ceramicwool	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum, 128 kg/m ³ Ceramicwool
Seal	Kerafix brand intumescent seal		
Hinge	2 hinges of 3 mm. thickness, one of which is self-closing spring hinge		
Paint	Static painting according to desired RAL color		

DOUBLE-LEAF FIRE DOORS

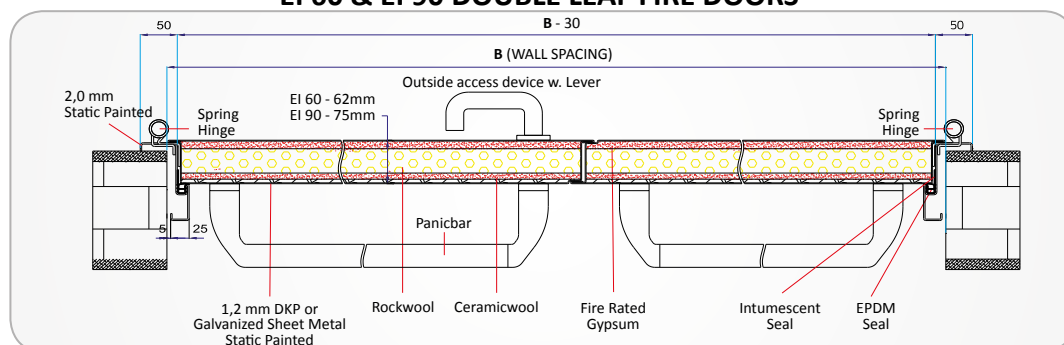
- It provides larger escaping space for secure evacuation with its double leaf application
- The leaves can both be symmetrical or asymmetrical
- One of the leaves can be fixed and can easily be opened in case of fire with a pim mechanism.
- For more frequent open-close usage, hydraulic pump can optionally be preferred
- Stainless steel plinth can optionally be applied under the leaves.



EI 45 DOUBLE LEAF FIRE DOORS



EI 60 & EI 90 DOUBLE LEAF FIRE DOORS



Standard	Uncertified	EN 1634-1	EN 1634-1
Fire Rating	EI Class 45 min.	E Class 120 min. EI Class 60 min.	E Class 120 min. EI Class 90 min.
Dimensions	Width: 1150 mm Height: 2400 mm	Width: 1150 mm Height: 2400 mm	Width: 1150 mm Height: 2400 mm
Frame	1,5 mm DKP or Galvanized Sheet Metal	2,0 mm DKP or Galvanized Sheet Metal	2,0 mm DKP or Galvanized Sheet Metal
Leaf	1,0 mm DKP or Galvanized Sheet Metal	1,2 mm DKP or Galvanized Sheet Metal	1,2 mm DKP or Galvanized Sheet Metal
Leaf Thickness	62 mm	62 mm	75 mm
Insulation	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum, 128 kg/m ³ Ceramicwool	150 kg/m ³ Rockwood, 12,5 mm Fire-Rated Gypsum, 128 kg/m ³ Ceramicwool
Seal	Kerafix brand intumescent seal		
Hinge	2 hinges of 3 mm. thickness, one of which is self-closing spring hinge		
Paint	Static painting according to desired RAL color		

SPECIAL STEEL SHEET DOORS AND SHAFT COVERS



Special steel sheet doors are large size hinged doors that allow some big size devices such as generator-set, transformer, hydrophore etc. to enter in the building.

These doors can be equipped with ventilation grill to discharge accumulated gas.



These doors can be made of DKP or galvanized steel and as well as stainless steel for hygiene applications.



Shaft Covers;

- are used to cover the cabinets of water or electrical equipments or fire extinguishers that are stored in.
- are made of DKP or galvanized steel sheet and can be painted to any RAL color
- Can be opened with a handle or with an allen wrench which is hidden on the surface to restrict unnecessary interferences.
- Corner frame or insert frame (that cover entire wall thickness) can be applied.

ACCESSORIES



Outboard
panic bar



Embedded
Panicbar



Hydraulic

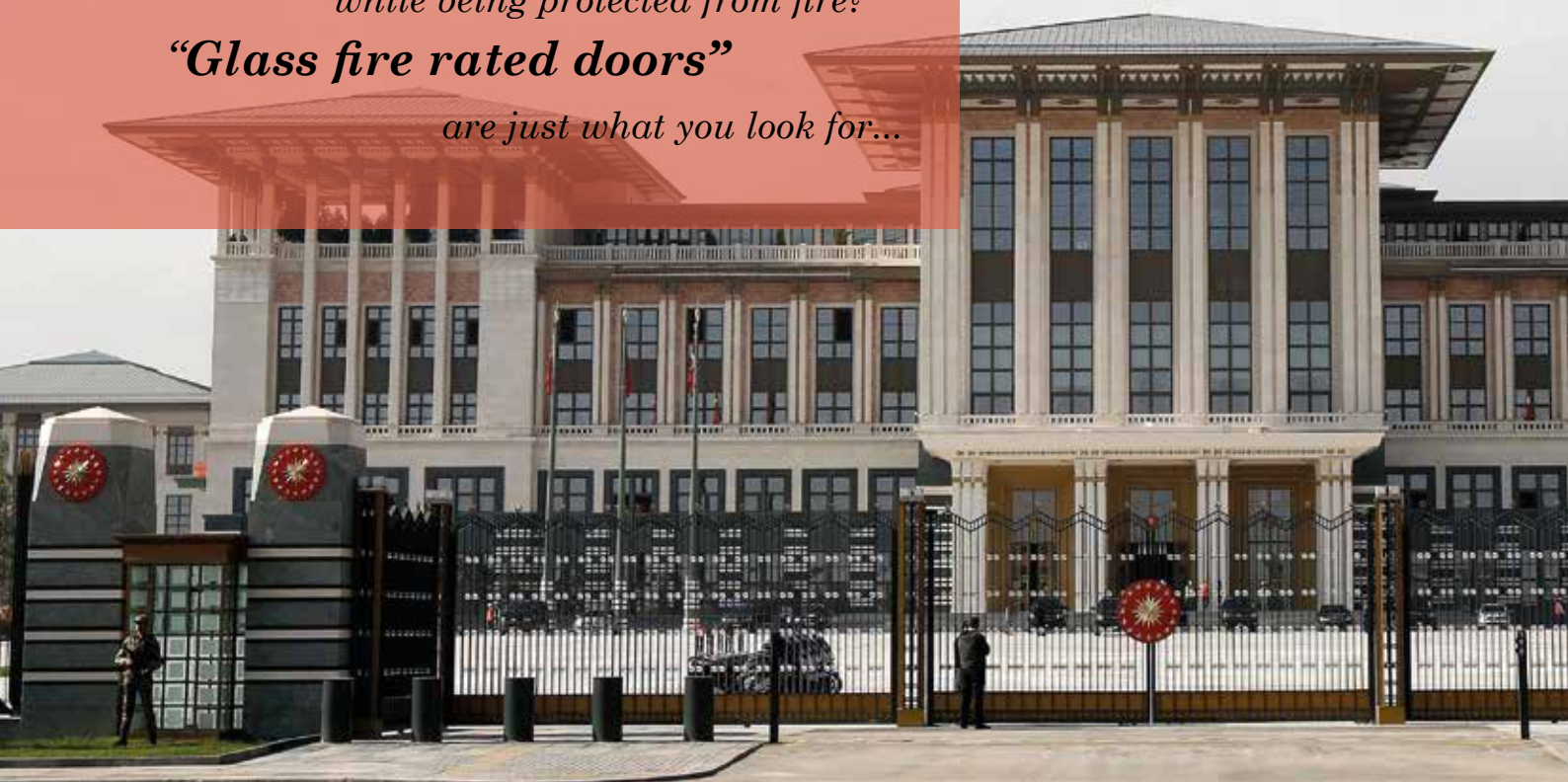


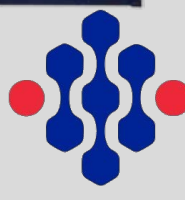
Bottom door hidden
guillotine



Electrical
Leaf Holder

*Why renouncing from esthetic appearance
while being protected from fire?
“Glass fire rated doors”
are just what you look for...*



 **OTAC**
www.otac-fr.com

GOXU
— World Wide Open —

ADVANTAGES AND SPECIFICATIONS

ESTHETICS

- Thanks to its transparency, it is highly preferable

VISUALITY

- Fixed glassed joinery can be equipped to the sides or top of the doors

IMPERMEABILITY

- To provide smoke impermeability, special seals and blowing bands (which blow in case of fire) are used

SATINE OPTION

- Satine and bright finishing option is available for stainless steel profiles



ELEGANT LOOK OF STEEL

- Can be made of stainless steel or painted steel

CUSTOMIZE PRODUCTION

- Design and Size diversities

WING OPTIONS

- Single or double leaf options are available, opening directions can be changable

TEST REPORTS

- Fire rating test certification is available in BS and EN norms

COLOR OPTIONS

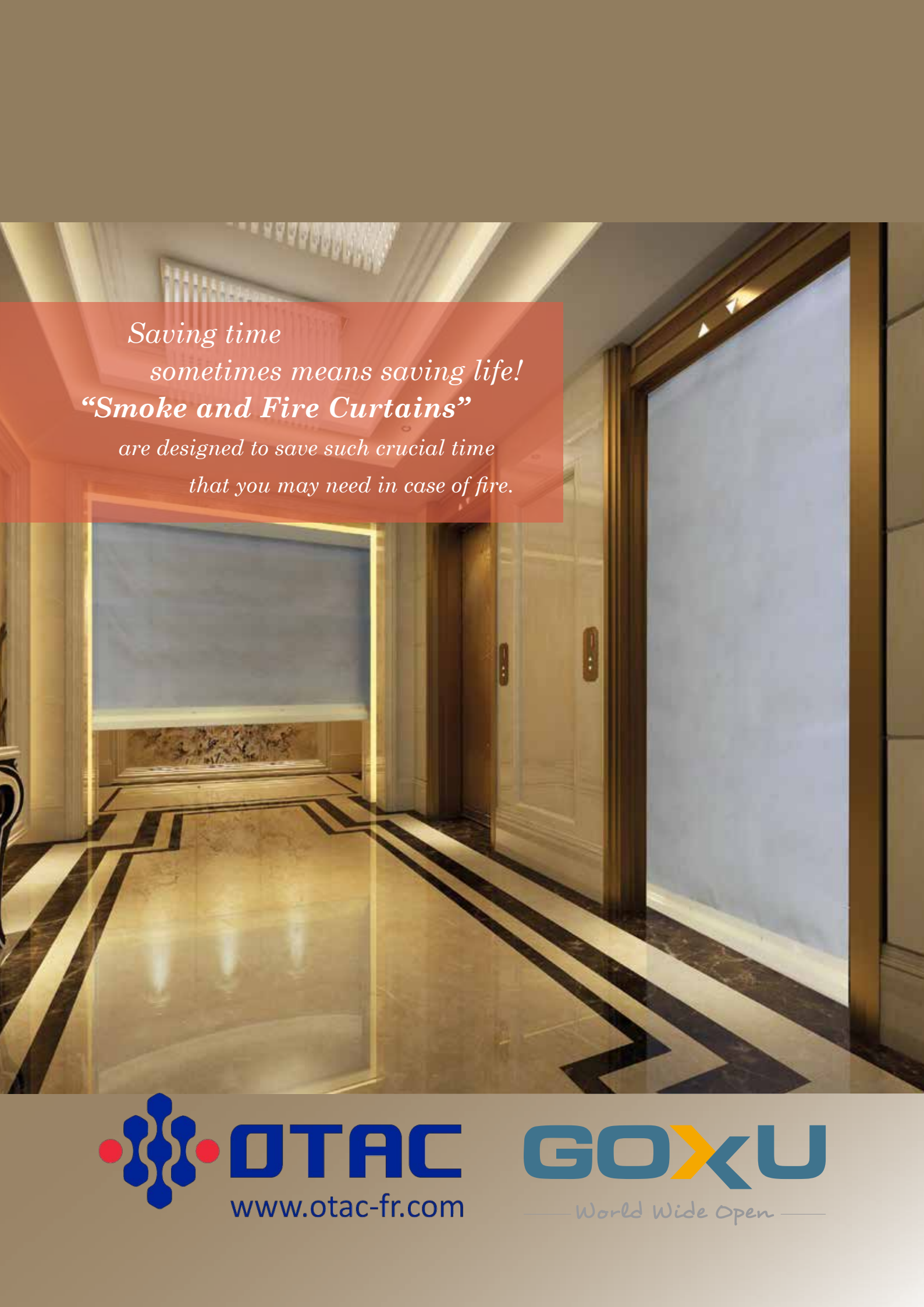
- Electrostatic painting in any RAL color for painted steel profiles



AREAS OF USAGE

- Public buildings, multi-storey buildings, hotels, schools and similar buildings
- Possible to apply glassed fire rated doors or fire partitions to enclose fire-escape stairs/corridors and to fire zones



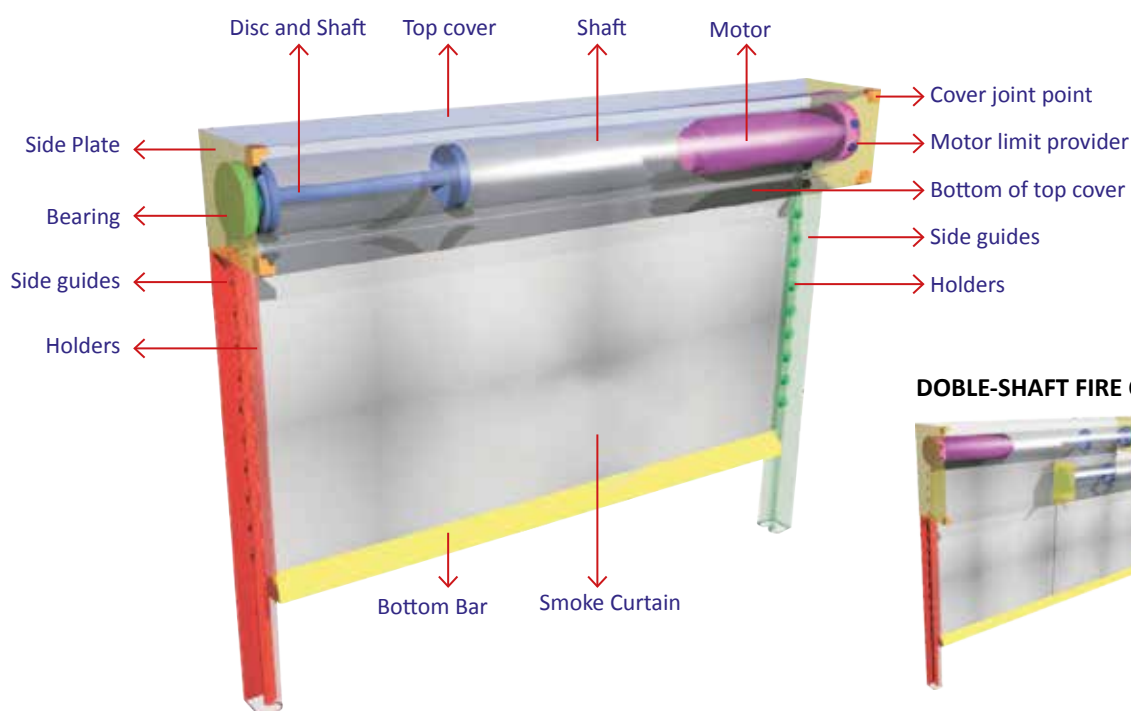
A photograph of a modern hallway with a polished, patterned floor. The hallway is lined with doors, each featuring a large, light-colored smoke and fire curtain. The ceiling has recessed lighting. A semi-transparent red box is overlaid on the upper left portion of the image, containing white text.

*Saving time
sometimes means saving life!
“Smoke and Fire Curtains”
are designed to save such crucial time
that you may need in case of fire.*

SMOKE AND FIRE CURTAINS



- Provides tightness max. 4 hours against fire and 1 hour against smoke.
- Provides more time to escape.
- Brings under control the smoke in cascaded usage.



DOUBLE-SHAFT FIRE CURTAIN



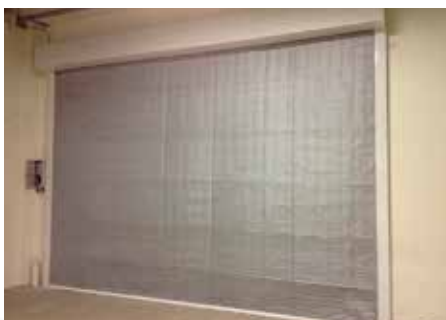
SPECIFICATIONS

- Thin and light
- Easy installation
- Resistance to fire/smoke 1 to 4 hours (Designed to block fire and smoke)
- Ability to operate with Stand-by battery in case of black out.



OPTIONAL SPECIFICATIONS

- Automatic closing in case of black out or cable-cut or with a signal
- Low battery level warning
- Photocell
- Smoke and Heat sensors



FIRE RESISTANCE TEST

- Resisted to fire 364 minutes at 1000 °C.
- BS 476-22 certified







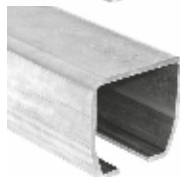
Gate Automation

- Sliding Gate Operator
- Swing Gate Operator
- Cantilever Gate Accessories
- Arm Barrier Systems
- Bollard Systems
- Roadblocker

GATE AUTOMATION SYSTEMS



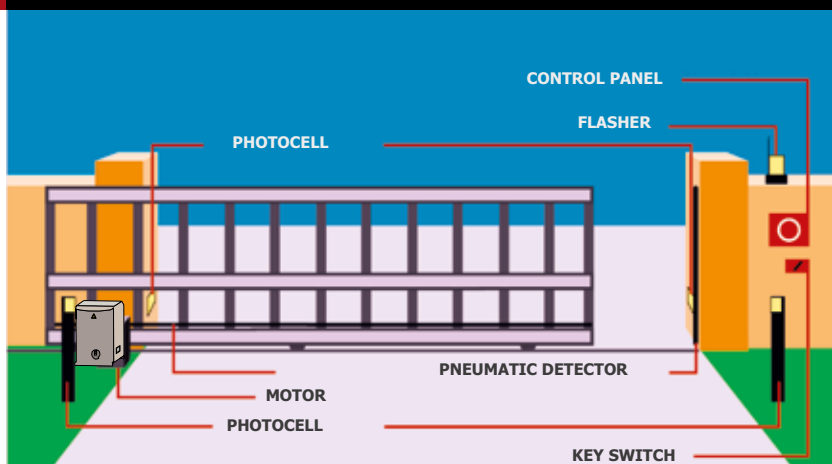
RAPIDO



**CANTILEVER GATE
ACCESSORIES**



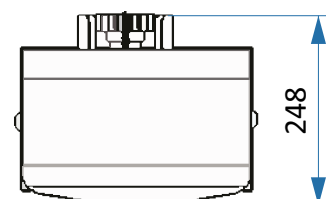
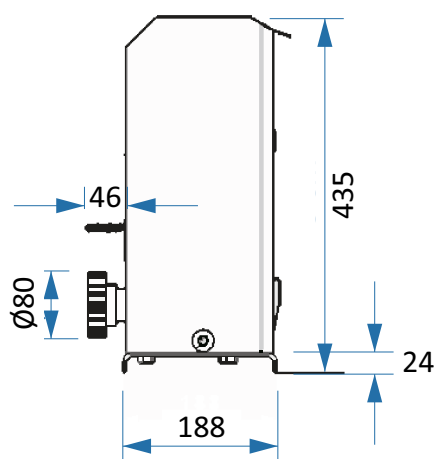
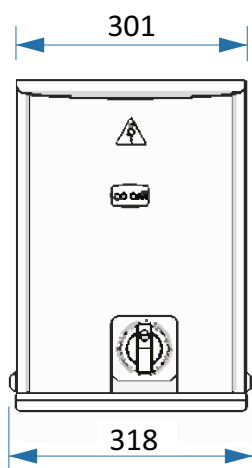
GATE AUTOMATION SYSTEMS



Sliding type door mechanism for long and heavy doors that are mainly used in industrial and military facilities

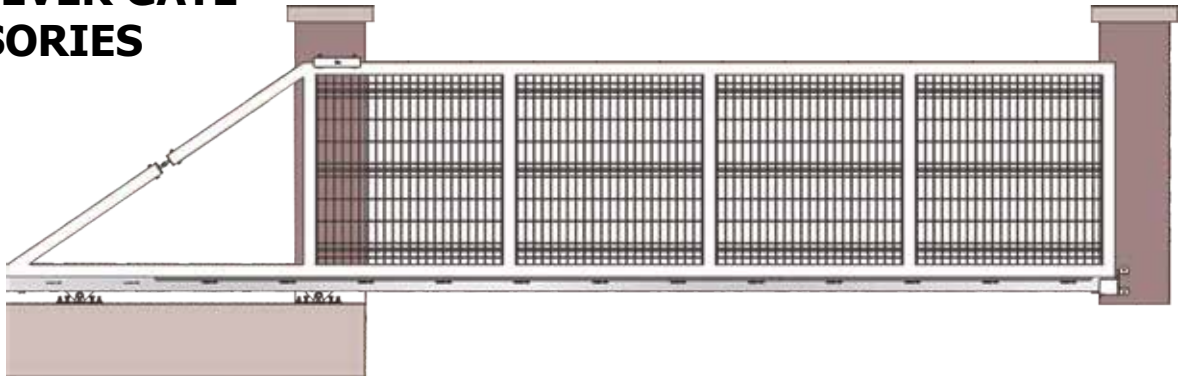
Technical Specifications

	RAPIDO 2000	RAPIDO 3000	RAPIDO 4000
Working Voltage	230 VAc - 50 / 60Hz		
Motor Voltage	380VAc - 50 / 60Hz		
Motor Current	3,0 A (Ort.)	4.3 A (Avg)	5,9 A (Avg)
Motor Power	0,75 kW	1.1 kW	1,5 kW
Working Period	Intensive Usage		
Ambient Temperature	-20 ° C // + 60 ° C		
Protection	IP54		
Motor RPM	1400 D / D		
Motor Cycle	46-230 D / D (speed adjustable)		
Limit Switch Type	Electromechanic		
Max. Output Torque	80 Nm	120 Nm	160 Nm
Opening Duration	10 mt / min - 45 mt / min (adjustable)		
Slowing Down	Adjustable		
Drive System	22x22 mm (Convenient for control rack)		
Maximum Door Length	20 M		
Maximum Door Weight	2.000 Kg	3.000 Kg	4.000 Kg
Manual Operation	Switching to manual mode by a switch on motor		
Automatic Closing	Between 0-255 sec (adjustable)		
Receiver	Compatible with Nice and BFT remote controls (63 pcs.)		

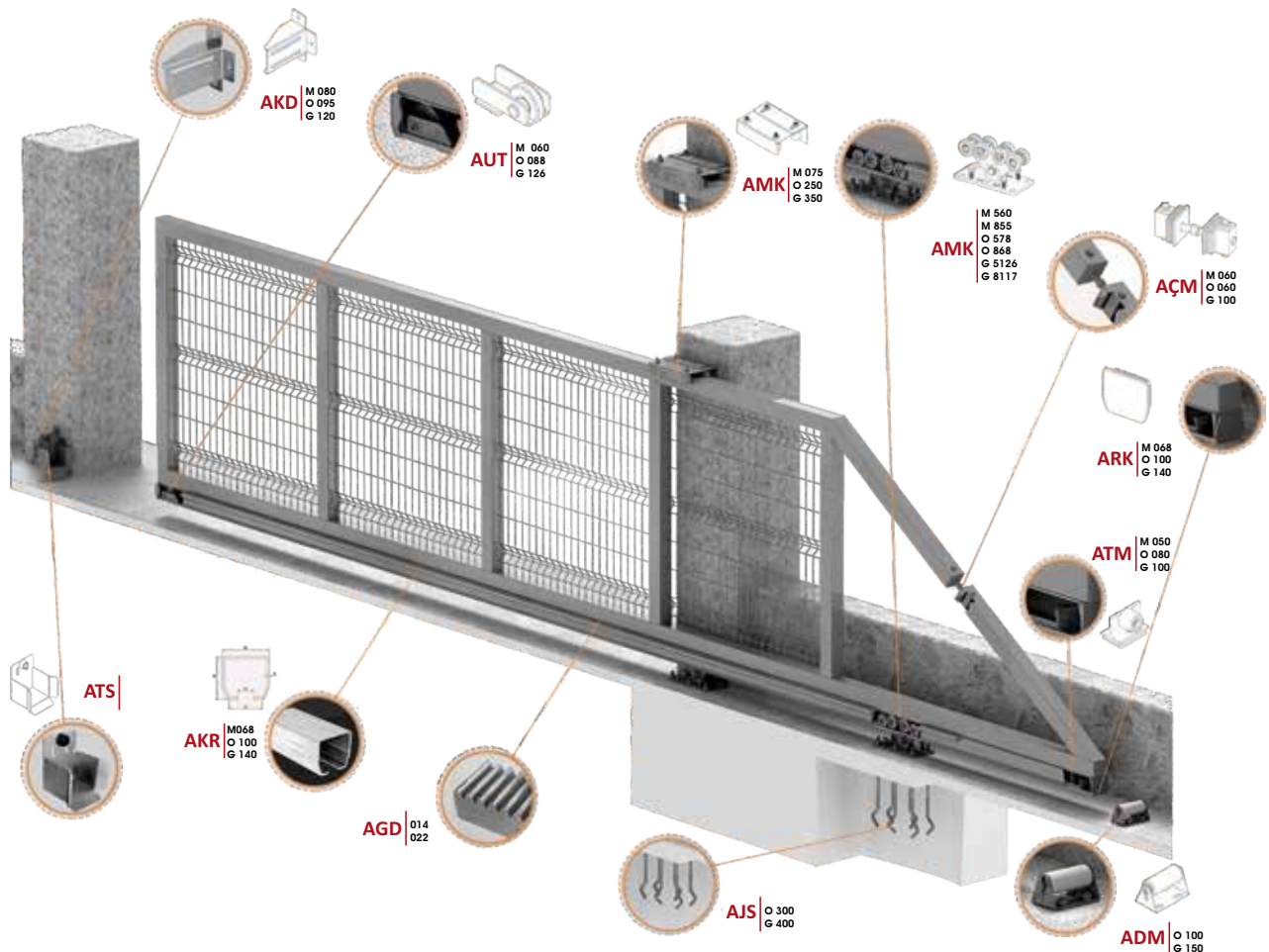


GATE AUTOMATION SYSTEMS

CANTILEVER GATE ACCESSORIES



- Convenient to be used with or without motor according to the gate size
- No vibration or instability occurs while in operation
- Easy opening
- Silent operation
- Long operation life
- No mud accumulation, no stone sticking, no negative effects of frostiness compare to the gates with ground track. The operation of cantilever is never effected whether a possible ground subsidence occurs due to intense heavy-vehicle traffic.



GATE AUTOMATION SYSTEMS

CANTILEVER GATE MAIN COMPONENTS



595

Wheel assembly with
5 wheels for Upper track



599

Guide Track



597

Buffer bracket



598

Wheel assembly with
8 wheels for Upper track



596

Buffer guide-tip wheel



562

Adjustable Guide Bracket with roller

ACCESSORIES



Control Rack



Flasher Lamp



Coded Open-Close Unit



Wall Mounted
Remote Control



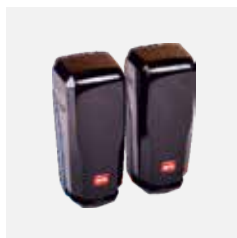
Remote Control



Photocell with Flasher



Open-Close Button



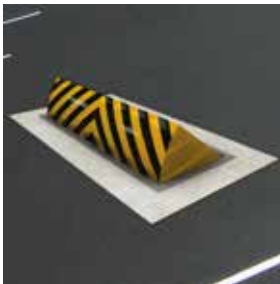
Safety Photocell



Key Switch



Loop Detector



Barrier & Road Blockage Systems

- Arm Barrier Systems
- Bollard Systems
- Roadblocker

Draw a line to unwanted transitions...

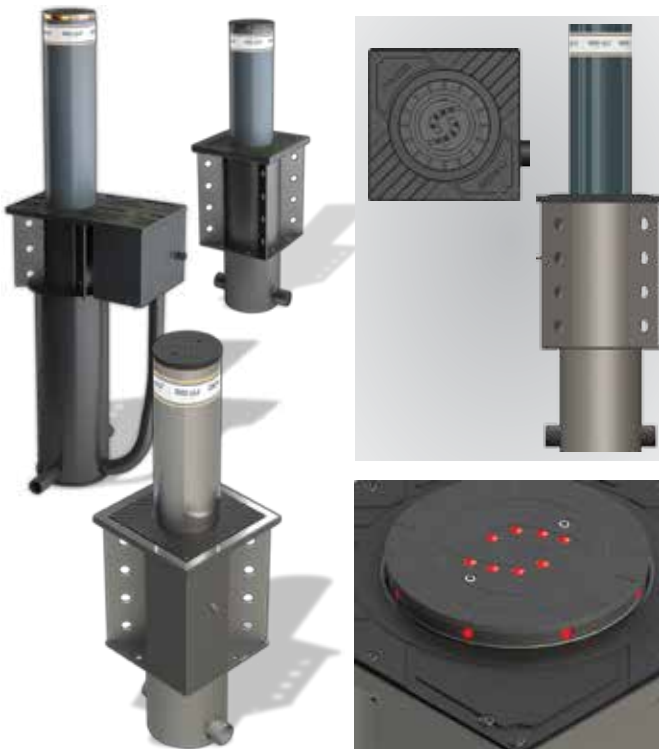
“Pop-up barriers” provide
*safe and controlled
transitions*



WITH INTERNAL AND INTEGRATED HYDRAULIC UNIT

POP-UP BARRIERS WITH INTERNAL HYDRAULIC UNIT

- Thanks to its modular structure, no need to have a cabin in application areas
- Minimize installation and service costs
- Provide silent, safe and smooth operation
- Can be open-closed 2000 times in 24 hours in peak usings
- Fast open-close operation
- Provide high level protection



TECHNICAL SPECIFICATIONS

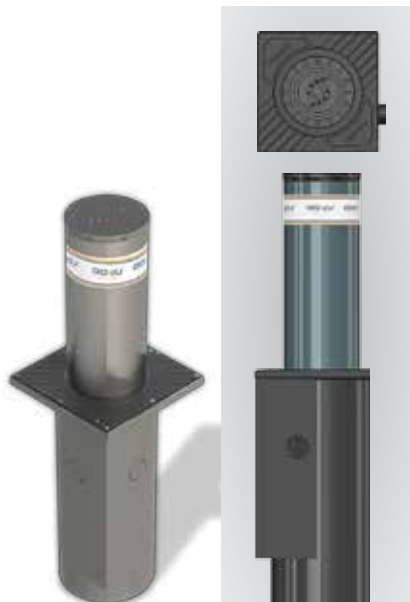
MODEL	Ø275	OAK 800.4 K4	OAK 1200.12 K12
Movable Bollard Diameter	Ø273		Ø330
Movable Bollard Sheet Thickness	6/10 mm	10 mm	25 mm
Bollard Housing	1 mm Cr-Ni	?	?
Barrier Height	600/800 mm	800 mm	1200 mm
Manual lowering	SCT / STD model* (OAK 12 EFO: Opening in 1,5 sec. in case of emergency)		
Working Intensity	2000 cycles / 24 hrs		
Open-close duration	Opening < 7 sec., Closing 4 sec.		Opening <5,3 sec. Closing 4 sec.
Control Unit	CDS or CDS-K can control 4 units at the same time		
Impact Resistance	667.000 J		2.100.000 J



POP-UP BARRIERS WITH INTEGRATED HYDRAULIC UNIT

TECHNICAL SPECIFICATIONS

MODEL	Ø275
Movable Bollard Diameter	Ø273
Movable Bollard Sheet Thickness	6/10 mm
Bollard Housing	1 mm Cr-Ni
Barrier Height	600/800 mm
Manual lowering	SCT / STD model
Working Intensity	3.000 cycles/ 24 hrs.
Open-close duration	5/6,5 sec.
Control Unit	CDS or CDS-K can control 4 units at the same time
Impact Resistance	250.000/400.000 J



- Pop-up bollard and hydraulic unit are in the same housing
- No need to have hydraulic hosing
- Minimize installation and service costs
- Provide silent, safe and smooth operation
- Can be open-closed 3000 times in 24 hours in peak usings
- Have a cover with LED lighting and audio warning system
- Fast open-close operation
- Bollard keeps its current position in case of black out

* Bollard can be lowered down by reaching to opening valve by ground flange in SCT model and by turning off the power in STD model.

WITH EXTERNAL HYDRAULIC UNIT & ELECTROMECHANIC TYPE

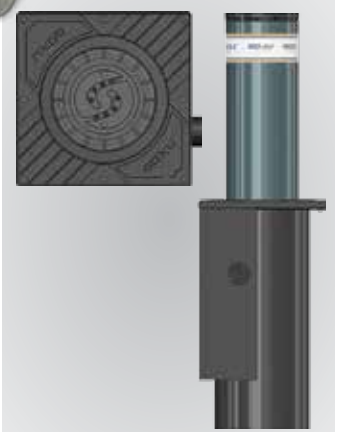
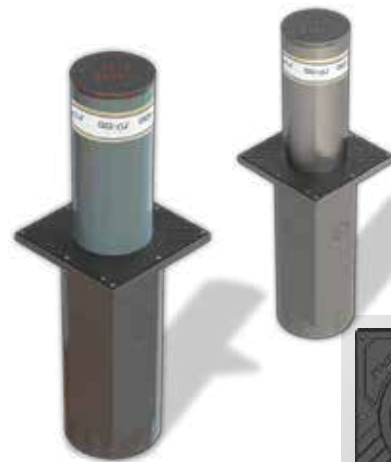
POP-UP BARRIERS WITH EXTERNAL HYDRAULIC UNIT

TECHNICAL SPECIFICATIONS

MODEL	Ø225	Ø275
Movable Bollard Diameter	Ø219	Ø273
Movable Bollard Sheet Thickness	6/10 mm	
Bollard Housing	1 mm Cr-Ni	
Barrier Height	600/800 mm	
Manual lowering	with ball valve	
Working Intensity	100%	
Open-close duration	4-6 sec.	
Control Unit	Microprocessed Control Unit	
Impact Resistance	150.000	250.000/400.000 J



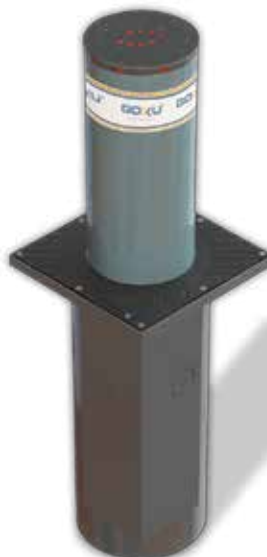
- are the systems that operate multiple barriers at the same time by being controlled by a central source
- have LED lighting
- have audio warning system
- are more economic compare to other multiple barrier systems
- allow to make changing in their parameters as standard or optionally



ELECTROMECHANIC POP-UP BARRIERS

TECHNICAL SPECIFICATIONS

MODEL	Ø225	Ø275
Movable Bollard Diameter	Ø219	Ø273
Movable Bollard Sheet Thickness	6 mm	
Bollard Housing	1 mm Cr-Ni	
Barrier Height	500/700 mm	
Manual lowering	Pop-up barrier goes down automatically in case of black out	
Working Intensity	1.500 cycles/ 24 hrs.	
Open-close duration	6/9 sec.	
Control Unit	CDS or CDS-K can control 4 units at the same time	
Impact Resistance	150.000/250.000 J	

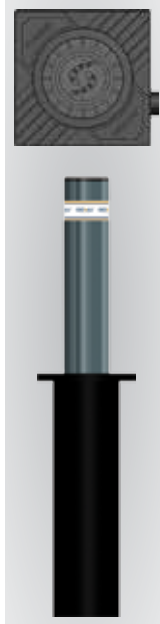


- Proper for mid-density operations
- Can be open-closed 1500 times in 24 hours in peak usings
- Thanks to its drive system which is located in an oil bath, its electromechanic part has longer life
- All parts are painted electrostatically
- Thanks to its integrated heating system, it protects its performance even in cold weather conditions.

MANUAL AND FIXED POP-UP BARRIERS

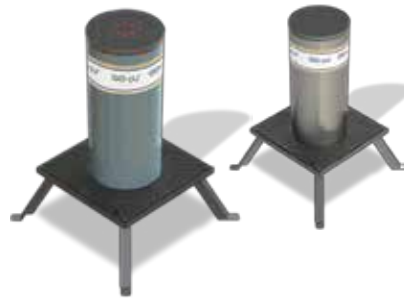
MANUAL POP-UP BARRIERS

- Can be opened easily by a piston inside and can be closed by applying force upon
- No need to have electric system



FIXED POP-UP BARRIERS

- No opening-closing function, always fixed
- No need electric system
- Can be used together with other pop-up barrier systems
- In case of using together with other type of pop-up barriers, others' electrical accessories can be installed inside of fixed one with intent to have nice looking
- Have models of with or without light



ACCESSORIES



BFT Two-Button Remote Control



BFT Four-Button Remote Control



Sensor Beam



Photocell



Traffic Lamp



Loop Detector and cablling



Battery



Reflector Photocell

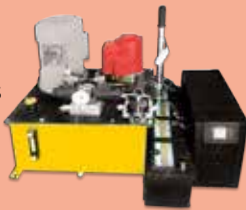


ROADBLOCKER



PARTS

- Hydraulic Equipments



- Electronic Control Equipments



USAGE AREAS

- Military facilities,
- embassies,
- government buildings,
- production facilities,
- oil refineries,
- airports and
- hotels

These are the systems used against vehicle attacks in areas where entrance-exit needs to be controlled and secure.



*Security is
obligatory.*



ACCESSORIES

- Card access unit



- On-Off Button



- Flasher



- Flasher



- Encrypted On-Off Unit

- Wall Mounted Remote Control



- Switch

- Solar panel



- Remote control



İSTANBUL



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FRANCE



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