Safe is Invisible

Safety & Security are among the most basic and primitive needs. As our world has become more intricate, they have turned into a matter of balance more than barriers. Myriad complexities form an entire system that envelops us. Though we do not see its many layers, we implicitly trust that it never ceases to protect us.

When our safety & security are assured, something remarkable happens, the worries stop and life goes on.

Welcome to **TECFIRE**

About Us

Tecfire is a pioneering and highly specialized company in the design, innovation, manufacture, testing and certification of glazed fire protection systems.

Founded in 1985 in Spain (Europe), Tecfire has today become a leading international company with presence in four continents. We base our strategy on offering the widest and most innovative range of products and with the maximum guarantee of quality and product certification.

With three facilities spanning +80.000 square feet fully dedicated to the manufacture of solutions with fire resistant glass we guarantee the best service to our customers with the most competitive prices in the market.





First Fire Resistance Test in the history of Tecfire carried out in **1985**. E30 (Integrity) with Pyran (Schott) Glass + hose stream test.





We have the most specialized team of engineers capable of providing any fire protection solution that are in need of resistant glass and with the aim of protecting people in buildings in case of fire. **We provide the most innovative solutions in the market.**







4
REGIONAL PRESENCE
America, Europe, Asia and Africa

+150
TESTED & CERTIFIED PRODUCTS

+4000
CLIENTS

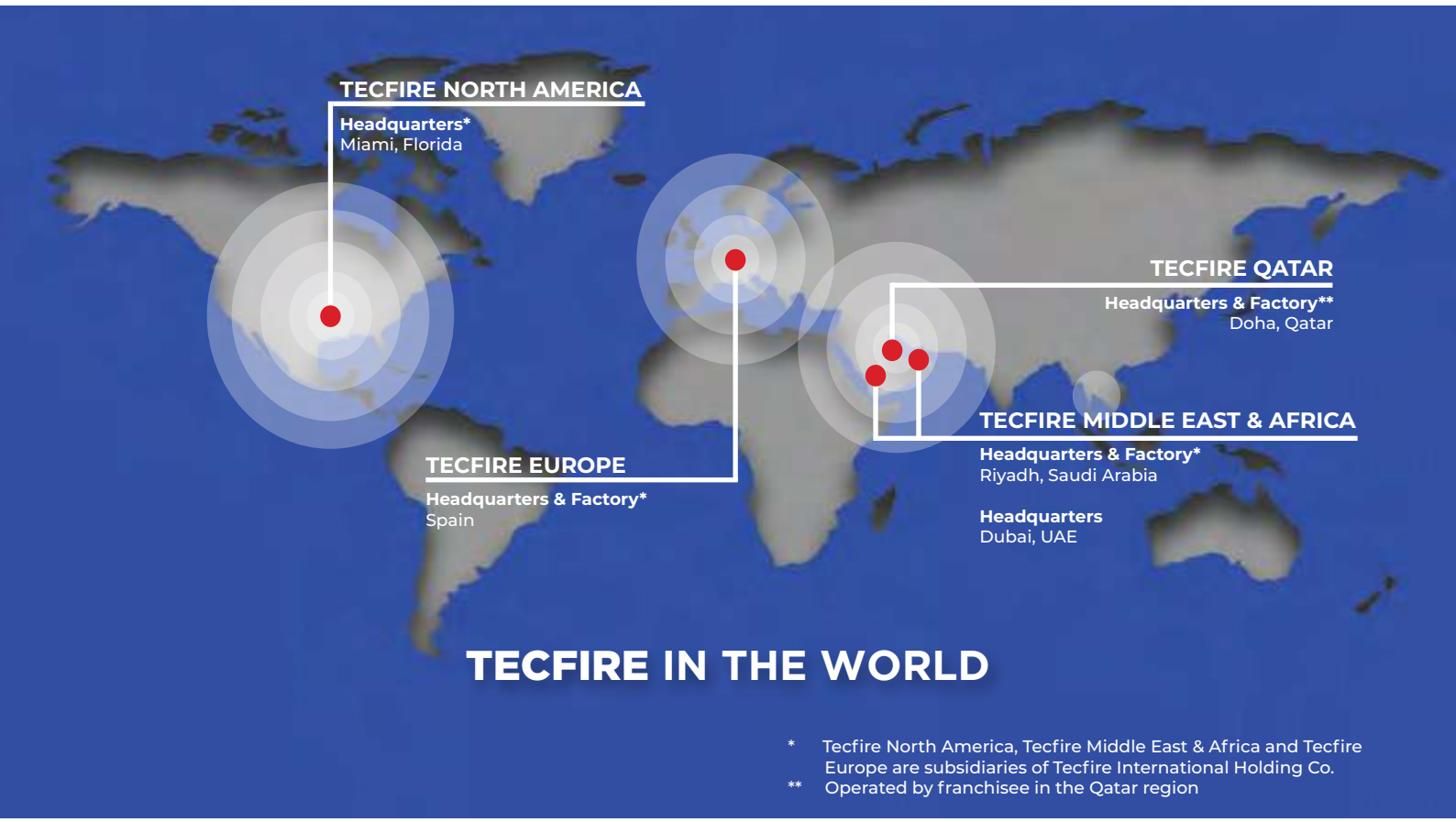
1985
YEAR ESTABLISHED

+5000
AWARDED PROJECTS

+250,000
SQM OF FIRE-RATED GLASS INSTALLED ON SITE

Tecfire key competence is based on generating the highest level of safety.

Ensuring protection of people is our business



TECFIRE IN THE WORLD

* Tecfire North America, Tecfire Middle East & Africa and Tecfire Europe are subsidiaries of Tecfire International Holding Co.

** Operated by franchisee in the Qatar region

Some of our existing clients:

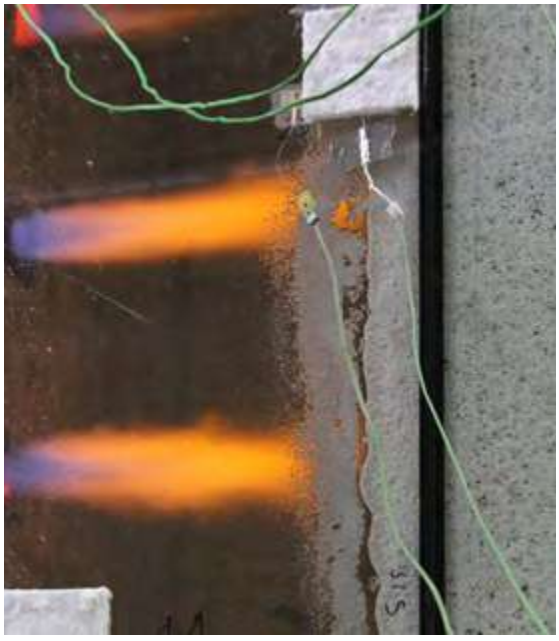
Foster + Partners · Ateliers Jean Nouvel · ARUP · AECOM · idom · Turner · Hill International · Nesma · DPA · dr · ATKINS · Marriott · BlackRock · Saudi Aramco · acciona · ONG&ONG

Glazed Fire Engineering: Testing and Certification

Tested, Certified and Trusted: Footprints of Tecfire

Conducted **+500**
fire resistance tests since 1985









Tecfire has extensive experience in the design, testing and certification of fire protection glass systems. All our products are rigorously tested, certified in accordance with all applicable standards wherever Tecfire sells its products. We work turnkey and we are able to adapt to the needs of any construction project where it is required to customize one of our products or even develop a completely new one. We offer you peace of mind and trust.





FIRE STANDARDS

NFPA

EN
European Standard

UL
Standard

ASTM

FIRE RESISTANCE LABS & PRODUCT CERTIFICATION BODIES

THOMAS BELL-WRIGHT INTERNATIONAL CONSULTANTS

Intertek
American Standard

Applus
Tested & Certified

CE

Tecfire currently offers the most extensive range of fire-rated glass protection in the market, entirely tested and approved in an extensive network of laboratories recognized worldwide, which makes it possible to guarantee the client absolute reliability of the specific solution adopted for the project at all times.



Fire-rated Glass Systems

TECHNICAL PROPOSAL

ALUFIRE AS85



ALUFIRE
ALUMINUM SYSTEMS

Alufire is **the new generation of fully fire-rated aluminum profile glass systems** that are designed for modern architecture. Using the latest technology and innovation, Tecfire can provide fire-rated framed glass systems made of aluminum profile that offer both aesthetic and safety with applications tested and certified in accordance with European Standards.

Series

AS85

Aluminum framed fire-rated glass systems with **thermal break**.

Applications:

SWING PIVOT GLASS DOOR
AUTOMATIC SLIDING GLASS DOOR
HINGED GLASS DOOR
OPENABLE GLASS WINDOW
CURTAIN WALL
FIXED PARTITION
BUTT JOINT SOLUTION

Main Characteristics

- Interior and exterior applications
- Flexible designs in various applications
- Great structural stability for possibility to maximize dimensions of the glazed area
- Profiles of minimum view
- Different finishes: Anodized, powder coated, wood & stainless steel look
- Advantages in terms of manufacturing and installation time
- Acoustically and thermally efficient (thermal broken system)
- Tested in accordance with European Standard
- Designs adaptable to any project requirement.



HINGED GLASS DOOR

FIRE RESISTANCE CLASSIFICATION FOR **EI** (INTEGRITY & INSULATION) UP TO 90 MINUTES

ALSO AVAILABLE IN FIRE RESISTANCE CLASSIFICATION FOR **EW** (INTEGRITY & RADIATION CONTROL) UP TO 60 MINUTES

The maximum versatility. Alufire AS85 Hinged Door systems are made with special fireproof thermal broken aluminum profiles that provide the system a great performance against fire and without compromising the functionality of a hinged door system. The aesthetic look of this door system has been improved aiming to satisfy the most demanding aesthetics requirements. Tested and certified in accordance with European Standards EN 1634-1 for EI Class (Integrity and Insulation) up to 90 minutes of fire resistance and for EW Class (Integrity and Radiation Control) up to 60 minutes.



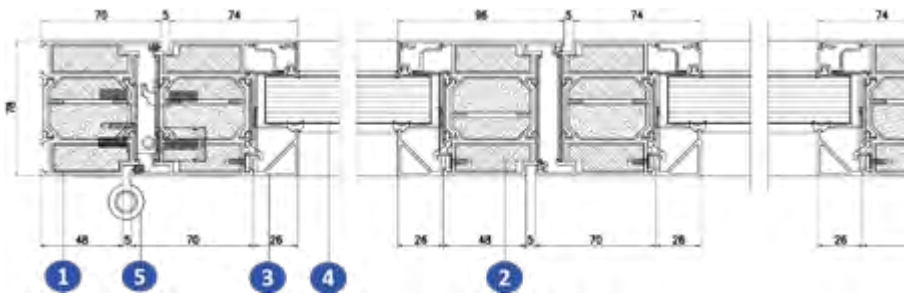


MAIN CHARACTERISTICS:

- Interior and Exterior use.
- Maximum tested and certified size: 2900 x 3200 mm
- Maximum glass surface area due to its special height up to 3m.
- Great structural stability and durability.
- Two types of hinges available: roller band and three body.
- Variety of finishes such as anodize, powder coated.
- Approved for emergency exit/ rescue access use.
- Available with automatic opening and access control mechanism.

MAIN COMPONENTS:

1. Aluminum Profile
2. Infill Material
3. Glazing Bead
4. Fire-rated Glass
5. Roller Hinge



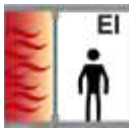
ALUFIRE
ALUMINUM SYSTEMS

EI SYSTEMS INTEGRITY & INSULATION

AS85 SERIES FIXED PARTITIONS

AS85 SERIES FIXED PARTITIONS **are the new generation of fully fire-rated aluminum profile fixed partition glass systems** specifically designed to guarantee the highest performance for fire protection and durability. Tested and certified for fire classification EI (Integrity and Insulation) up to 120 minutes of fire resistance, and according to European standard EN 1634-1. From the architectural point of view, Alufire AS85 offers new possibilities when you are looking for fire rated aluminum construction.











FIXED GLASS PARTITION

FIRE RESISTANCE CLASSIFICATION FOR **EI**
(INTEGRITY & INSULATION) UP TO 120 MINUTES

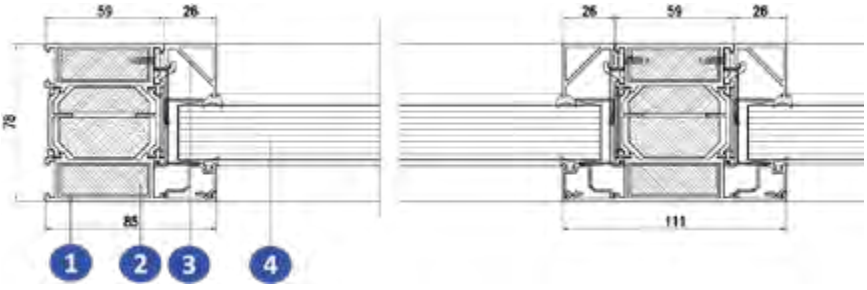
ALSO AVAILABLE IN FIRE RESISTANCE CLASSIFICATION FOR
EW (INTEGRITY & RADIATION CONTROL) UP TO 60 MINUTES

The Alufire AS85 fixed partition system has been designed to comply with the most demanding requirements in term of acoustic, structural and fire performance. It's been also designed to provide the maximum glass surface area and it's also thermally efficient due to its special fireproof aluminum thermal broken profiles. It can be combined with any of the Alufire AS85 door systems. Tested and certified in accordance with European standards EN 1364-1 for a fire classification EI (Integrity and Insulation) up to 120 minutes of fire resistance and for EW (Integrity and Radiation Control) up to 60 minutes.



MAIN CHARACTERISTICS:

- Interior & Exterior use.
- Maximum tested size: Unlimited width x 4000 mm height
- Portrait or landscape orientation.
- Large glass surface area allowing maximum transparency.
- Great structural, thermal and acoustic performance.
- Variety of finishes available.
- Easy and quick to install.



MAIN COMPONENTS:

1. Aluminum Profile
2. Infill Material
3. Glazing Bead
4. Fire-rated Glass

TECFIRE
safe is invisible

STANDARD HARDWARE

Performance criteria

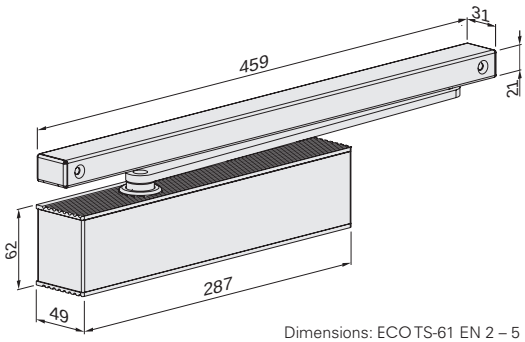
		2 – 5	2 – 5	5 – 6
Closing force (continuously adjustable)	according to EN standards	F	SV	F
Door width	≤ 1,250 mm	■	■	■
according to EN standards	≤ 1,400 mm	-	-	■
Dimensions (incl. mounting plate)	Length in mm	287	287	267
	Depth in mm	49	49	49
	Height in mm	62	62	62
Mounting plate in accordance with **EN 1154** (supplementary sheet 1)		■	■	■
Hinge / hinge-opposite side		◘	◘	◘
DIN L / R		■	■	■
Latching action (continuously adjustable)		■	■	■
Closing speed (continuously adjustable)		■	■	■
Back check (continuously adjustable)		■	■	■
Delayed action (continuously adjustable)		-	■	-
Tested to EN standards		EN 1154		
Suitable for fire and smoke control doors		F	-	F
Certified according to EU regulations		CE	-	CE

■ Yes
- No
◘ Optional

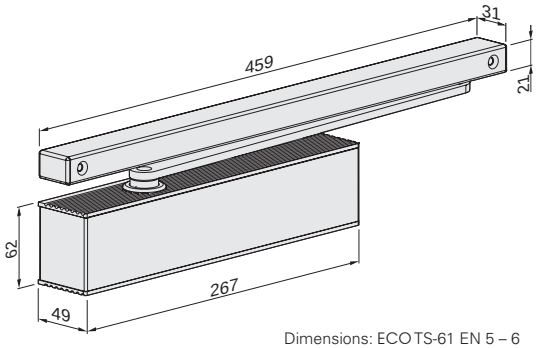
 Wooden door

 Steel door

 Profile door



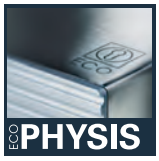
Dimensions: ECO TS-61 EN 2 – 5

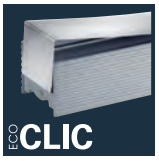


Dimensions: ECO TS-61 EN 5 – 6

ECO **Newton** TS-61 ▪ Highlights at a glance



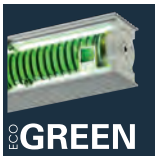


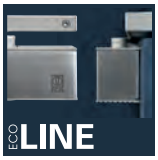














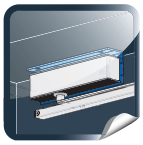
Details for ECO **Newton highlights can be found at the beginning of this section.**

Body: Silver RAL 9006
ECOclic: Stainless steel
polished or satin finish

Body + ECOclic:
White RAL 9016

Body + ECOclic:
Black RAL 9005

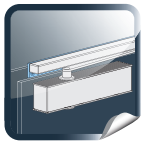
Slide rails and lever arms are always delivered in the same colour as the body.



Transom brackets
for door closers
from page Seite
148.



Transom brack-
ets
for slide rails
from page Seite
148.



Adaption
profiles
from page Seite
144.

Applications for the ECO **Newton TS-61**

The ECO **Newton** TS-61 is designed for medium and heavy functional doors (**EN 1154** up to size 5 or 6) and is used wherever elegant design, functionality, ease of opening and cost-conscious construction are required. Closing speed, back-check and latching speed can be freely adjusted, delayed action (only for closing force size EN 2 – 5) (up to 70°) is also available optionally.

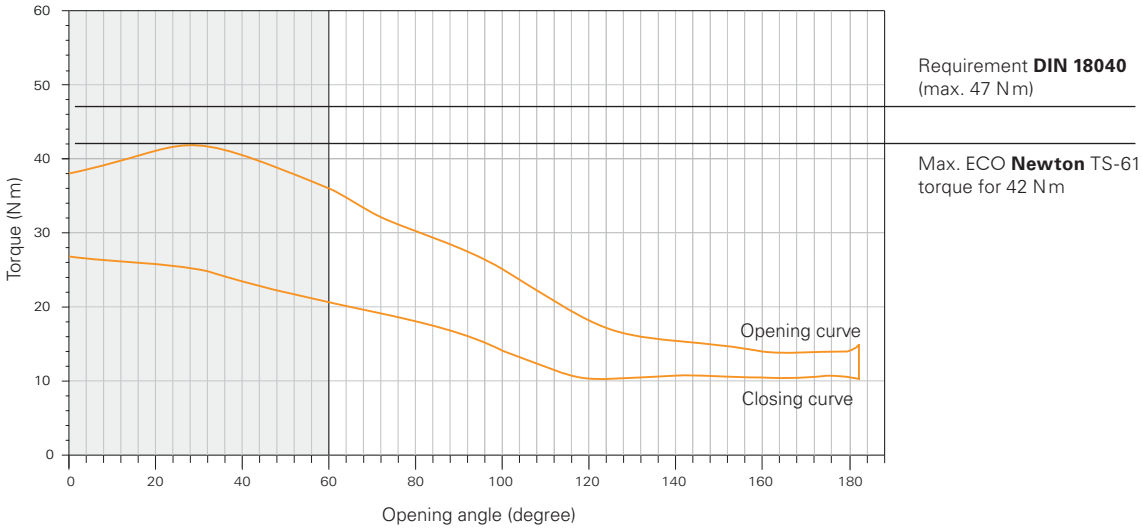
With its gearing design, the ECO **Newton** TS-61 achieves a high degree of efficiency, which strikes the ideal balance between opening and closing. This makes the ECO **Newton** TS-61 the perfect problem solver for standard and special-function doors, especially for the contract sector.

The ECO **Newton** TS-61 (2 – 5) complies with **DIN 18040** (construction of accessible buildings with requirements for highly efficient smooth-running doors) up to closing force size EN 4. The maximum opening torque at closing force EN 4 is only about 42 N m (the **DIN 18040** standard requires a maximum opening torque of 47 N m for fire doors with door closers).

Germany:
DIN 18040 – construction of accessible buildings

France:
PMR

Torque curve for ECO **Newton** TS-61 (for EN 4)



Extracts from DIN 18040-1:2010-10

4.3.3.3 Requirements on the design of the door
It must be possible to open and close doors with a low force (max. 25 N m), otherwise, automatic door systems are required, see **DIN 18650-1** and **DIN 18650-2**, according to table 1 in this standard, from line 12. If door closers are required, then they must be set so that the opening torque does not exceed size 3 according to **DIN EN 1154** (max. 47 Nm).

It is recommended to use door closers with continuously adjustable closing force.
So that people with restricted mobility have enough time to pass safely through the door, closing delays may be necessary.
For fire and smoke safety doors, hold-open systems (e.g. magnets or a free swing door closer) should be used.

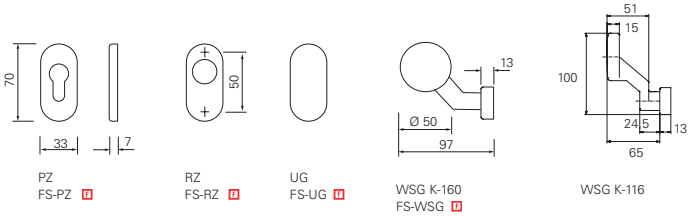
D-116 oval rose



D-116 oval rose with OGL – friction bearing technology

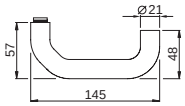
Lever handle guidance comprising a maintenance-free friction bearing made of self-lubricating nylon. With fixed or fixed swivel-mounted knob and powerful return spring. Flush base rose, no larger lever handle collar hole required. Available with and without supporting cams.

User category class 4, supporting cams Ø 4.8 x 3 mm



OGL – HANDLE ON OVAL ROSE

ER

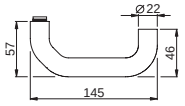


F = 4 | D9 | - | B1 | 1 | 4 | 0 | A/U

	∅	⧄		SF	Fittings set		Knob			Rose		
S	21 mm	8 mm	178402.46		186405.46	186410.46	178218.46	178200.46	178202.46	176850.46	176852.46	176851.46
F	21 mm	9 mm	178400.46	5030051278	386405.46	386410.46	178217.46	178200.46	178204.46	176850.46	176852.46	176851.46

Finish: matt brushed. PVD and polished on request
*Base rose including fire protection plate

AI



F = 4 | D9 | - | D1 | 1 | 4 | 0 | A/U

	∅	⧄		SF	Fittings set		Knob			Rose		
S	22 mm	8 mm	178402.30		187405.30	187410.30	178218.30	178200.30	178202.30	176850.30	176852.30	176851.30
F	22 mm	9 mm	178400.30	5030051276	387405.30	387410.30	178217.30	178200.30	178204.30	176850.30	176852.30	176851.30

Finish: F1 and F9 anodised aluminium; further colours available on request
*Base rose including fire protection plate

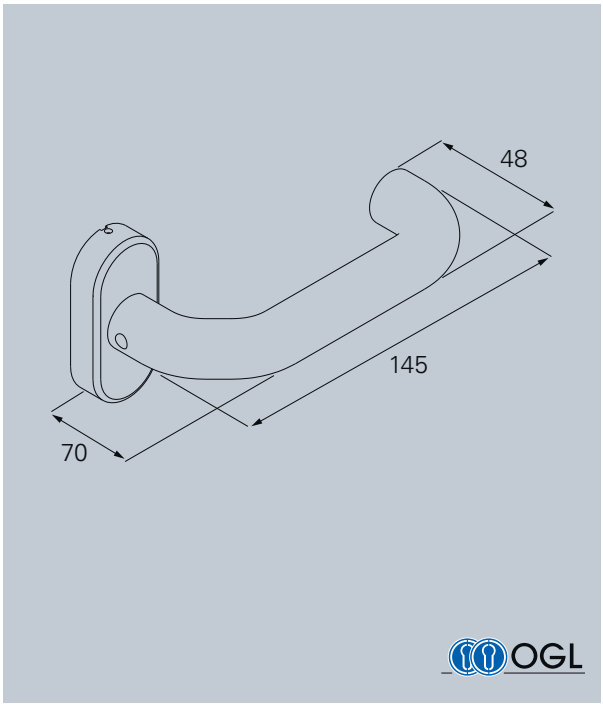
Performance criteria

Tested according to	EN 1906
with 9 mm square spindle fire protection tested according to DIN 18273	F
Lever handle shape suitable for emergency exits and fire barrier doors	EN 179
Return spring	■
Fixed swivel-mounted lever handle	■
Steel substructure with and without supporting cams	■
Non-visible screw attachment	■
DIN L/R	■
1 million test cycles **(MPAZert)**	■

Classification key EN 1906

4	D9	-	B1/D1	1	4	0	A / U

■ Yes – No ◘ Optional



Profile door

Material:

ER ER Stainless steel

Al Al Aluminium

Bearing technology:

OGL

PRODUCT FAMILY D-100

Standard fitting



D-110 . Page 168



D-120 . Page 176



D-190 . Page 180

Handle on long/short plate



D-110 . Page 240



D-110 . Page 244

Handle on oval rose



D-115 . Page 280



D-116 . Page 284

Security handle



D-110 . Page 344



D-111 . Page 354



D-116 . Page 370

Window handle



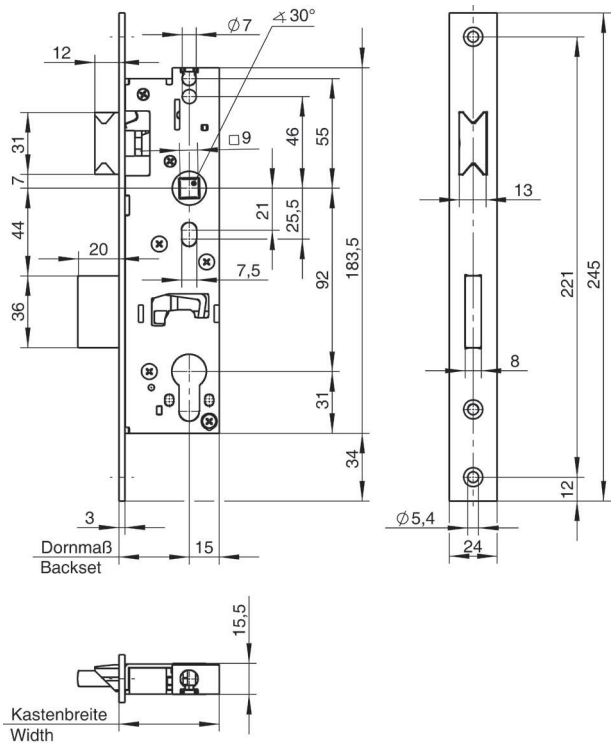
FO-110 . Page 412

WILKA®
SCHLIESSTECHNIK

Einsteckschloss für Rohrrahmentüren

Mortise lock for metal frame doors





EN 12209

Art. Nr./Art. No.		638N			
Dornmaße/Backsets	mm	30	35	40	45
Kastenbreiten/Widths	mm	45	50	55	60

Einsteckschloss für Rauch- und Brandschutztüren, für Profilzylinder vorgerichtet, 9 mm Nuss einteilig, mit Wechsel, Falle umlegbar, Fallenhub 12 mm, 1-tourig = 20 mm Riegelausschluss, Stulp Edelstahl rostfrei, Falle und Riegel vernickelt, Schlosskasten verzinkt, oben und unten geschlossen, durchgehende Schraublöcher.
Geprüft nach DIN 4102-18 und DIN EN 1634-1 und nach EN 12 209.

Sonderausführungen

- Falle und Riegel 3 mm oder 5 mm vorstehend
- Flachstulp 22 mm
- U-Stulp 22 mm oder 24 mm
- vorgerichtet für Schweizer Rundzylinder (RZ 22)
- Riegelüberwachung inkl. 10 m Kabel
- Nussüberwachung inkl. 8 m Kabel
- für einbruchhemmende Türen nach DIN V EN 1627 Klasse RC2
  (nur 22 mm und 24 mm Stulp, Edelstahl rostfrei)

Mortise lock for fire doors, prepared for profile cylinder, solid follower 9 mm, with action of the key on the latch bolt, reversible latch for right or left hand use, latch bolt stroke 12 mm, 1 turn = 20 mm dead bolt throw, stainless steel forend, latch and dead bolt nickel-plated, zinc plated lock case, top and bottom closed, end-to-end screw holes.
Certified as per DIN 4102-18 and EN 1634-1 and per EN 12 209.

Special designs

- latch and dead bolt extended 3 mm or 5 mm
- forend 22 mm
- U-shaped forend 22 mm or 24 mm
- prepared for RZ 22 (Swiss standard)
- dead bolt monitoring device including 10 m cable
- follower monitoring device including 8 m cable
- for burglar resistance doors according to EN 1627 class RC2 (only forend 22 mm and 24 mm, stainless steel)

TECFIRE
safety is invisible

ANTI-PANIC HARDWARE

Performance criteria

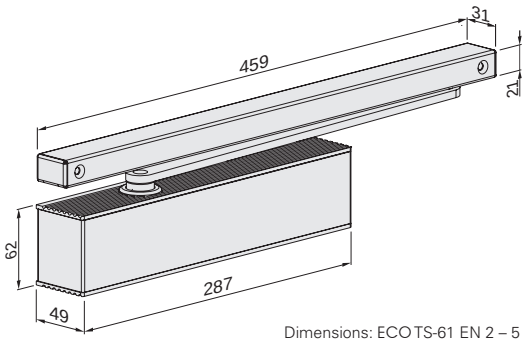
		2 – 5	2 – 5	5 – 6
Closing force (continuously adjustable)	according to EN standards	F	SV	F
Door width	≤ 1,250 mm	■	■	■
according to EN standards	≤ 1,400 mm	-	-	■
Dimensions (incl. mounting plate)	Length in mm	287	287	267
	Depth in mm	49	49	49
	Height in mm	62	62	62
Mounting plate in accordance with **EN 1154** (supplementary sheet 1)		■	■	■
Hinge / hinge-opposite side		◘	◘	◘
DIN L / R		■	■	■
Latching action (continuously adjustable)		■	■	■
Closing speed (continuously adjustable)		■	■	■
Back check (continuously adjustable)		■	■	■
Delayed action (continuously adjustable)		-	■	-
Tested to EN standards		EN 1154		
Suitable for fire and smoke control doors		F	-	F
Certified according to EU regulations		CE	-	CE

■ Yes
- No
◘ Optional

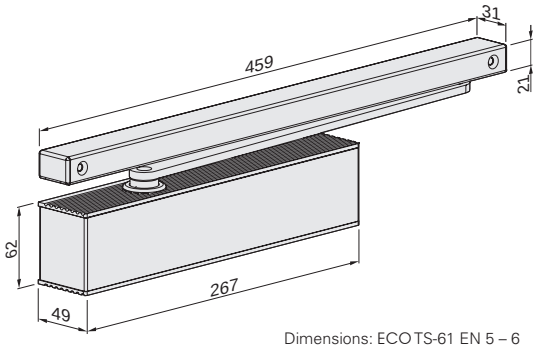
 Wooden door

 Steel door

 Profile door



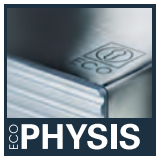
Dimensions: ECO TS-61 EN 2 – 5

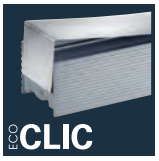


Dimensions: ECO TS-61 EN 5 – 6

ECO **Newton** TS-61 ▪ Highlights at a glance



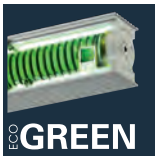


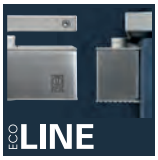














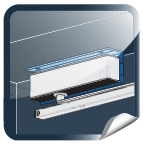
Details for ECO **Newton highlights can be found at the beginning of this section.**

Body: Silver RAL 9006
ECOclic: Stainless steel
polished or satin finish

Body + ECOclic:
White RAL 9016

Body + ECOclic:
Black RAL 9005

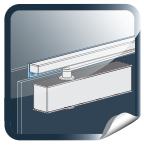
Slide rails and lever arms are always delivered in the same colour as the body.



Transom brackets
for door closers
from page Seite
148.



Transom brack-
ets
for slide rails
from page Seite
148.



Adaption
profiles
from page Seite
144.

Applications for the ECO **Newton TS-61**

The ECO **Newton** TS-61 is designed for medium and heavy functional doors (**EN 1154** up to size 5 or 6) and is used wherever elegant design, functionality, ease of opening and cost-conscious construction are required. Closing speed, back-check and latching speed can be freely adjusted, delayed action (only for closing force size EN 2 – 5) (up to 70°) is also available optionally.

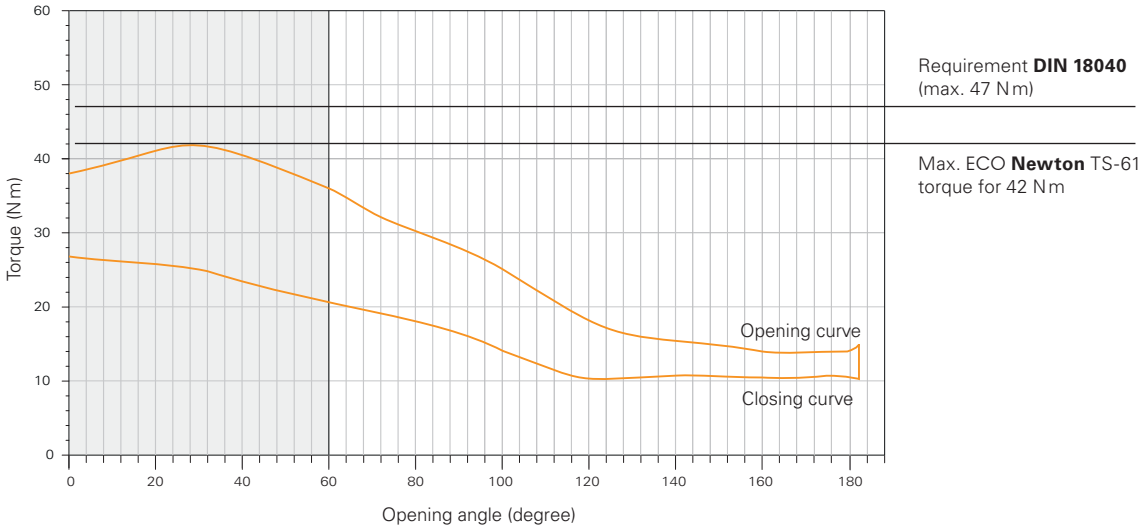
With its gearing design, the ECO **Newton** TS-61 achieves a high degree of efficiency, which strikes the ideal balance between opening and closing. This makes the ECO **Newton** TS-61 the perfect problem solver for standard and special-function doors, especially for the contract sector.

The ECO **Newton** TS-61 (2 – 5) complies with **DIN 18040** (construction of accessible buildings with requirements for highly efficient smooth-running doors) up to closing force size EN 4. The maximum opening torque at closing force EN 4 is only about 42 N m (the **DIN 18040** standard requires a maximum opening torque of 47 N m for fire doors with door closers).

Germany:
DIN 18040 – construction of accessible buildings

France:
PMR

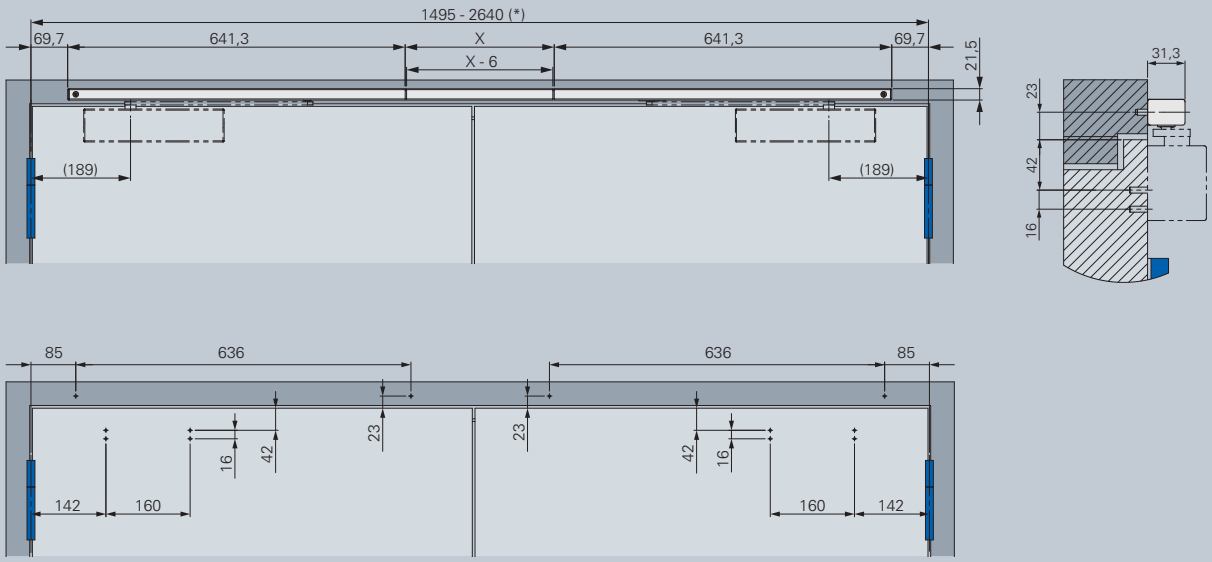
Torque curve for ECO **Newton** TS-61 (for EN 4)



Extracts from DIN 18040-1:2010-10

4.3.3.3 Requirements on the design of the door
It must be possible to open and close doors with a low force (max. 25 N m), otherwise, automatic door systems are required, see **DIN 18650-1** and **DIN 18650-2**, according to table 1 in this standard, from line 12. If door closers are required, then they must be set so that the opening torque does not exceed size 3 according to **DIN EN 1154** (max. 47 Nm).

It is recommended to use door closers with continuously adjustable closing force.
So that people with restricted mobility have enough time to pass safely through the door, closing delays may be necessary.
For fire and smoke safety doors, hold-open systems (e.g. magnets or a free swing door closer) should be used.



Direct installation door coordinator ECO SR III DIN L

ECO **SR III**

Door coordinator hinge side for all ECO **Newton door closers**

- **Installation of the s ystem:**
  DIN L / DIN R can be used variably.
  The DIN direction can be chosen freely on site.
- **Opening angle:**
  max. 175° (depending on the rebate and frame geometry)
- **Minimum size passive leaf:**
  360 mm (for TS-41) or 400 mm (for TS-61)
- **Delivery:**
  Incl. associated middle cover (latching system), mounting parts and Torx fastening screws.
- **The use of the** ECO **MK 1 driver flap is required for full panic doors.**

- **Slide rails door coordinator:**
  Ensures that the closing sequence of the passive and active leaf is in the prescribed order, i.e. the active leaf always closes after the passive leaf.
  When opening the passive leaf, brake wedges in the active leaf slide rail (mechanically independent of the door closer hydraulics) ensure that the active leaf stops as soon as the inactive leaf is opened.
  Tested acc. to **EN 1158**.

Door coordinator hinge side
Hinge gap 1,495 – 2,640 mm
*** For smaller hinge gaps** (min. hinge gap 1,320 mm), **the GF profile must be shortened and, if necessary, the door closers must be relocated. Please observe the notes in the mounting instructions.**
For larger hinge gaps (2,645-2,800 mm), **please also order the extended connection rod VBS** ECO **SR III.**

DIN L / DIN R	Colour	Art. no.
ECO SR III (Si)	Anodised silver	5030051094
ECO SR III (W)	White RAL 9016	5030050928
ECO SR III (S)	Black RAL 9005	5030049725
ECO SR III (ER M)	Matt stainless steel	5030051547
VBS ECO SR III (BA up to 2,800 mm)	Steel zinc-plated	5030051651

Note!:
Please order the corresponding accessory (from page Seite 144) for the different mounting versions (see page Seite 58 and Seite 59).

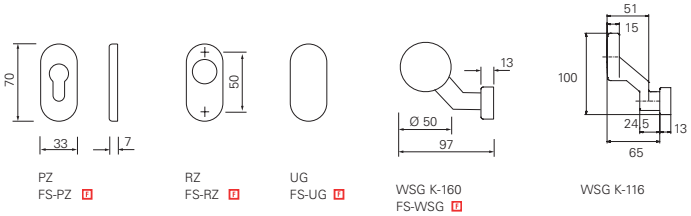
D-116 oval rose



D-116 oval rose with OGL – friction bearing technology

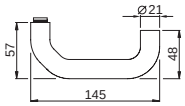
Lever handle guidance comprising a maintenance-free friction bearing made of self-lubricating nylon. With fixed or fixed swivel-mounted knob and powerful return spring. Flush base rose, no larger lever handle collar hole required. Available with and without supporting cams.

User category class 4, supporting cams Ø 4.8 x 3 mm



OGL – HANDLE ON OVAL ROSE

ER

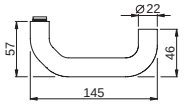


F = 4 | D9 | - | B1 | 1 | 4 | 0 | A/U

	∅	⧄		SF	Fittings set		Knob			Rose		
S	21 mm	8 mm	178402.46		186405.46	186410.46	178218.46	178200.46	178202.46	176850.46	176852.46	176851.46
F	21 mm	9 mm	178400.46	5030051278	386405.46	386410.46	178217.46	178200.46	178204.46	176850.46	176852.46	176851.46

Finish: matt brushed. PVD and polished on request
*Base rose including fire protection plate

AI



F = 4 | D9 | - | D1 | 1 | 4 | 0 | A/U

	∅	⧄		SF	Fittings set		Knob			Rose		
S	22 mm	8 mm	178402.30		187405.30	187410.30	178218.30	178200.30	178202.30	176850.30	176852.30	176851.30
F	22 mm	9 mm	178400.30	5030051276	387405.30	387410.30	178217.30	178200.30	178204.30	176850.30	176852.30	176851.30

Finish: F1 and F9 anodised aluminium; further colours available on request
*Base rose including fire protection plate

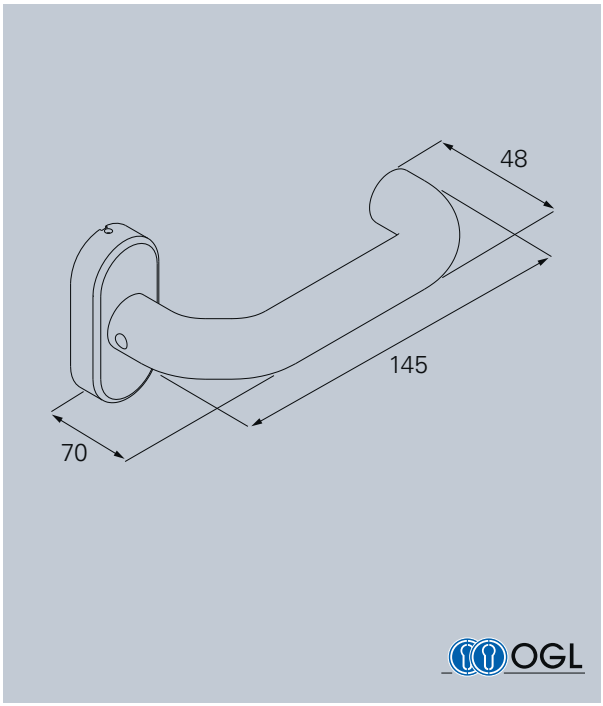
Performance criteria

Tested according to	EN 1906
with 9 mm square spindle fire protection tested according to DIN 18273	F
Lever handle shape suitable for emergency exits and fire barrier doors	EN 179
Return spring	■
Fixed swivel-mounted lever handle	■
Steel substructure with and without supporting cams	■
Non-visible screw attachment	■
DIN L/R	■
1 million test cycles **(MPAZert)**	■

Classification key EN 1906

4	D9	-	B1/D1	1	4	0	A / U

■ Yes – No ◘ Optional



Profile door

Material:

ER ER Stainless steel

Al Al Aluminium

Bearing technology:

OGL

PRODUCT FAMILY D-100

Standard fitting



D-110 . Page 168



D-120 . Page 176



D-190 . Page 180

Handle on long/short plate



D-110 . Page 240



D-110 . Page 244

Handle on oval rose



D-115 . Page 280



D-116 . Page 284

Security handle



D-110 . Page 344



D-111 . Page 354



D-116 . Page 370

Window handle

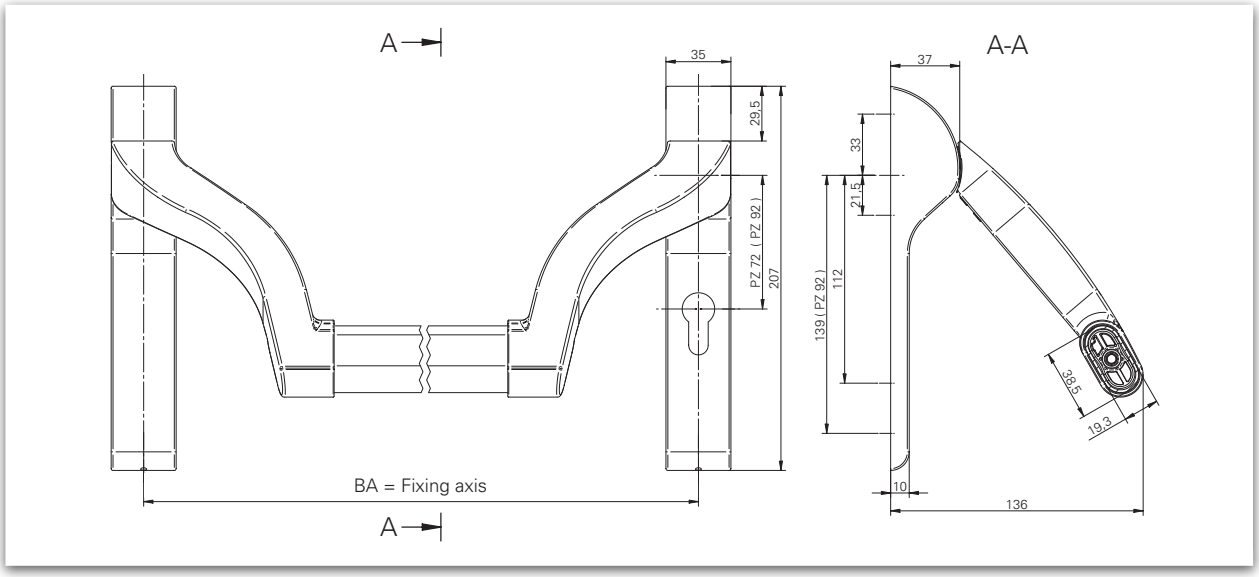


FO-110 . Page 412

Performance criteria		
Actuation type	Touch bar Push bar	- ■
Surfaces	Stainless steel Alu. F1 coated Colour coated	■ ■ ■
Grip tube	900*	■
	1.150*	■
	1.500*	◘
Closer types	PZ-72	■
	PZ-92	■
	RZ-74	■
	RZ-94	■
	UG	■
Can be used for DIN L / DIN R		■
Suitable for fire and smoke control doors	F	■
Tested according to DIN/EN standards	EN 1125	■

■ Yes - No ◘ Optional





Dimensions: Guardian EPN 900 IV (subject to changes)

Description

Guardian EPN 900 IV / push bar
The lever arms are cranked particularly wide and facilitate the use of electronic locking cylinders

- Tested according to **EN 1125, EN 1634 & EN 1191**
- Only suitable for use as a closure system according to **EN 1125** with a tested and approved lock
- Suitable for **use on smoke control and fire doors** based on relevant tests
- Can be used for DIN left / DIN right
- Lever arms cranked wide, particularly suitable for electronic locking cylinders and short PZ distances
- Large, sturdy grip tube (vandalism)
- Rotation angles can be adjusted later on request
- Lever arms and bar screwed together tightly for maximum strength
- Surfaces:
  - Stainless steel, matt satin finish
  - Silver F1 coated aluminium**
  - Coated black/red**
    (based on Guardian EPN 900 IV Alu)
- Gear unit: Steel zinc-plated

*Grip tube sold separately

**Please refer to the information provided on page 763

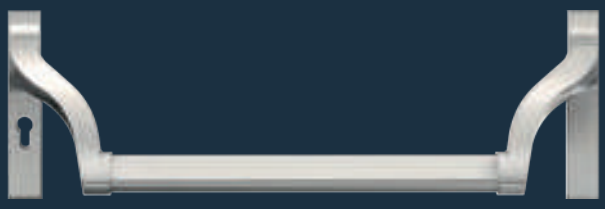


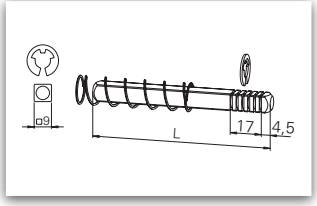
ER

Guardian EPN 900 IV Stainless steel*	Rotation angle	Article number
PZ-72	30 °	1069a1304600080
	40 °	1069a1404600080
	45 °	1069a1454600080
PZ-92	30 °	1069a2304600080
	40 °	1069a2404600080
	45 °	1069a2454600080
RZ-74	30 °	1069a5304600080
	40 °	1069a5404600080
	45 °	1069a5454600080
RZ-94	30 °	1069a6304600080
	40 °	1069a6404600080
	45 °	1069a6454600080
UG, without holes	30 °	1069a4304600080
	40 °	1069a4404600080
	45 °	1069a4454600080

ER grip tube	Max. fixing axis (BA)	Article number
900 mm	1,067 mm	109506604600070
1,150 mm	1,317 mm	109506614600070
1,500 mm	1,669 mm	109506644600070

Guardian EPN 900 IV
Stainless steel





Length	Article number
55 mm	119007914301030
75 mm	119007924301030
95 mm	119007934301030

*Grip tube sold separately

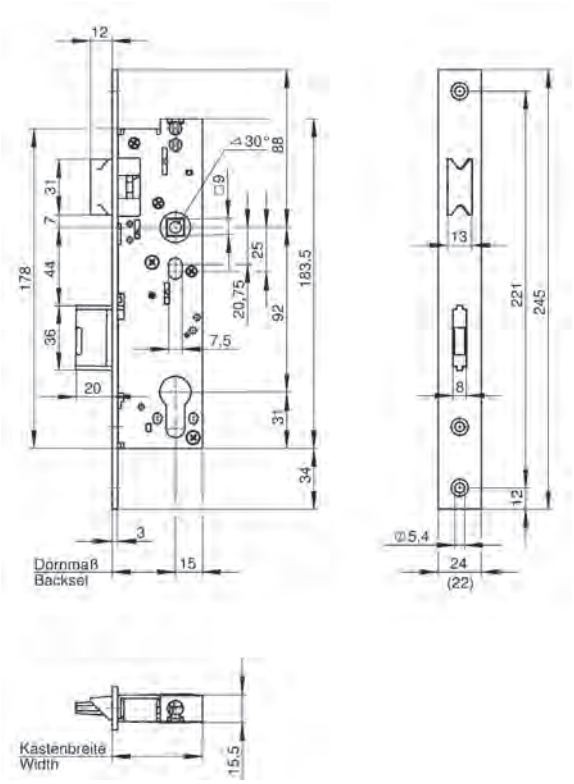
**Please refer to the information provided on page 763

WILKA®
SCHLIESSTECHNIK

Anti-Panik-Einsteckschloss für einflügelige Rohrrahmentüren

Panic mortise lock for single metal frame doors





Art. Nr./Art. No.		6677
Dornmaße/Backsets	mm	30 35 40 45
Kastenbreiten/Widths	mm	45 50 55 60

Anti-Panik-Einsteckschloss für einflügelige Rohrrahmentüren, **Umschaltfunktion B**, integrierte Funktion „steckender Schlüssel".
Stulp Edelstahl rostfrei, 9 mm Nuss geteilt, ohne Wechsel, Richtungsangabe erforderlich, 1-tourig = 20 mm Riegelausschluss, Schlosskasten komplett verzinkt, Falle und Riegel vernickelt, durchgehende Schraublöcher, für Profilzylinder vorgerichtet.
Geeignet für den Einsatz in Türen für einbruchhemmende Elemente nach DIN EN 1627-1630 und bei Vorgaben nach VOB Teil C.
Zugelassen für Fluchttüren nach EN 179 & EN 1125.
Feuerschutz geprüft nach EN 1634-1 & DIN 4102-18.
Zertifiziert nach EN 12 209.

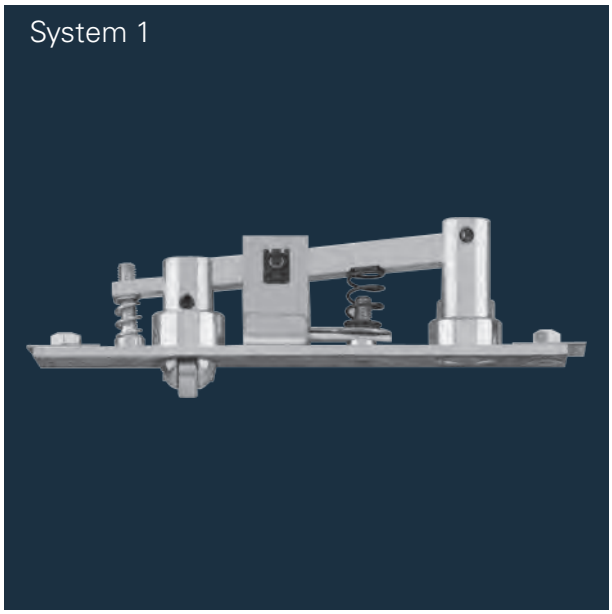
Sonderausführungen
- Falle und Riegel 3 mm oder 5 mm vorstehend
- Flachstulp 22 mm
- U-Stulp 22 mm oder 24 mm
- Riegelüberwachung inkl. 10 m Kabel
- Nussüberwachung inkl. 8 m Kabel
- vorgerichtet für Schweizer Rundzylinder (RZ22)
- umgekehrte Panikfunktion

Weitere Informationen zu
- Umschaltfunktion B: Seite 5
- Funktion „steckender Schlüssel": Seite 9

Emergency exit mortise lock for single-leaf metal frame doors, **change-over function B**, integrated 'plug-in key function'.
Stainless steel forend, 9 mm follower divided, without latch lever, direction instruction required, 1 revolution = 20 mm dead bolt throw, fully galvanized lock case, nickel-plated latch bolt and dead bolt, continuous screw holes, designed for profile cylinders.
Suitable for use in doors for burglary-resistant elements DIN EN 1627-1630 and German contracting rules for awarding public works Section C.
Approved for emergency exits in compliance with EN 179 & EN 1125.
Fire protection EN 1634-1 & DIN 4102-18 certified.
EN 12 209 certified.

Special versions
- latch bolt and dead bolt 3 mm or 5 mm protruding
- flat forend 22 mm
- U-forend 22 mm or 24 mm
- dead bolt monitoring inc. 10 m cable
- follower monitoring inc. 8 m cable
- designed for Swiss circular cylinder (RZ22)
- reverse panic function

Further information on
- change-over function B: page 5
- 'Plug-in key' function: page 9



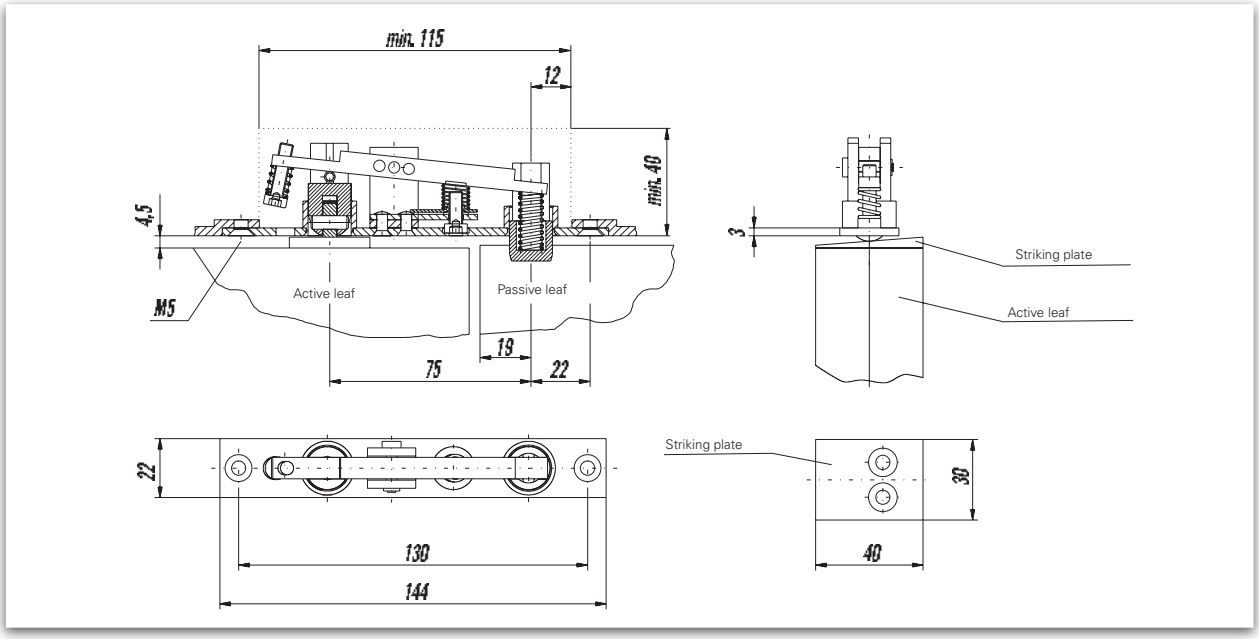
Dual locking system 1

The passive leaf is locked when the active leaf is closed, as the switching bolt is pushed up and so the dead bolt is pressed into the passive bolt. Drop stroke and resistance are adjustable.

The passive leaf is also unlocked when the active leaf is opened, as the dead bolt is retracted by spring pressure. The passive leaf remains in the closed position due to the door closer pressure. Supplied with striking plate.

Can be used for DIN left / DIN right.

	Article number
Dual locking system 1	204585500000000



Dimensions: Dual locking system 1 with roller latch

The dual locking system 1 with roller latch is also available as a version with a standard latch bolt. Please contact us if you need this version.

TECFIRE
safety is invisible

CERTIFICATES

Fire Safety Certification Fire Performance

LGAI Technological Center S.A. (APPLUS), according to the requirements of the SPC-117 certifies the Fire Performances following the Classification and Testing standard for:

COMPANY

Tecfire, S.L.
Pol. Ind. Sector 9 – C/ Ventorrillo No. 1
45529 Yuncler (Toledo) Spain

Manufactured

Tecfire, S.L.
Pol. Ind. Sector 9 – C/ Ventorrillo No. 1
45529 Yuncler (Toledo) Spain

PRODUCT

ALUFIRE AS85 - Hinged leaf glazed doorsets

CLASSIFICATION AND TESTING STANDARDS

EN 1634-1:2014 "Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Part 1: Fire resistance test for door and shutter assemblies and openable windows".

EN 13501-2:2016 "Fire classification products and building elements. Part 2: Classification using data from fire resistance tests, excluding ventilation services".

PRODUCT DETAILS AND TEST REPORT

Please check at the technical annex file nº 22/32307757, 22/32301868, 22/32305882 and 22/32305883

LGAI has performed the product initial tests and the initial assessment of the management system. Periodically, the entity does a follow-up assessment of the management system.

This document is not valid without its technical annex; whose number coincides with that of the certificate.

No. APF-1634

Date issued: 30/01/2026
First issue date: 16/12/2019
Renovation date: 30/01/2026
Validate date: 31/12/2026

Applus APF-1634 SPC 117 Fire Safety Certification

Xavier Ruiz Peña
Managing Director
Conformity Assessment

Applus certification

LGAI Technological Center S.A. (APPLUS)
Campus UAB. Ronda de la Font del Carme s/n
08193 Bellaterra, Barcelona (Spain)

ENAC
CERTIFICACIÓN ISO 17065 Nº12 / C-PR054

Check the status of this certificate

Certificate

Fire Safety Certification Fire Performance

LGAI Technological Center S.A. (APPLUS), according to the requirements of the SPC-117 certifies the Fire Performances following the Classification and Testing standard for:

COMPANY

Tecfire, S.L.
Pol. Ind. Sector 9 – C/ Ventorrillo No. 1
45529 Yuncler (Toledo) Spain

Manufactured

Tecfire, S.L.
Pol. Ind. Sector 9 – C/ Ventorrillo No. 1
45529 Yuncler (Toledo) Spain

PRODUCT

AS85 – Vertical division non-loadbearing glazed partitions

CLASSIFICATION AND TESTING STANDARDS

EN 1364-1:2015 "Fire resistance tests for non loadbearing elements. Part 1: Walls".

EN 13501-2:2016 "Fire classification products and building elements. Part 2: Classification using data from fire resistance tests, excluding ventilation services".

PRODUCT DETAILS AND TEST REPORT

Please check at the technical annex file nº 20/23563-2274 ER3, 20/23563-2274-1 ER3, 20/23563-2275 & 20/23563-2275-1

LGAI has performed the product initial tests and the initial assessment of the management system. Periodically, the entity does a follow-up assessment of the management system.

This document is not valid without its technical annex; whose number coincides with that of the certificate.

No. APF-1637

Date issued: 30/01/2026
First issue date: 16/12/2019
Renovation date: 30/01/2026
Validate date: 31/12/2026

Applus
APF-1637
SPC 117
Fire Safety Certification

Xavier Ruiz Peña
Managing Director
Conformity Assessment

Applus certification

LGAI Technological Center S.A. (APPLUS)
Campus UAB. Ronda de la Font del Carme s/n
08193 Bellaterra, Barcelona (Spain)

ENAC
CERTIFICACIÓN
ISO 17065
Nº12 / C-PR054

Check the status of this certificate

Certificate

Architecture

Tecfire is an international company with strong regional presence over four continents, installing glass safety systems in some of the most prestigious and ambitious architectural projects worldwide.

Metro & Train



Dubai Metro - United Arab Emirates
ALUFIRE



Delicias High Speed Train Station - Spain
STEELFIRE



Barcelona Sants - AVE Railway Station - Spain
STEELFIRE

Barcelona Metro Line 9 - Spain
STEELFIRE



Doha Metro - Qatar
STEELFIRE



Qatar Integrated Railways Project - Qatar
STEELFIRE



Qatar Integrated Railways Project - Qatar
STEELFIRE



Haramain High-Speed Railway KAEC Staion - Saudi Arabia
STEELFIRE



Airport



Adolfo Suárez – Madrid Barajas International Airport - Spain
ALUFIRE



Midfield Terminal Airport
ALUFIRE



Barcelona El Prat Airport
STEELFIRE

Málaga International Airport - Spain
STEELFIRE



Dubai International Airport - United Arab Emirates
STEELFIRE



King Abdulaziz International Airport - Jeddah, Saudi Arabia
STEELFIRE



Stuttgart International Airport - Germany

ALUFIRE



Düsseldorf International Airport - Germany
STEELFIRE

High Density Building



Yas Marina Circuit Abu Dhabi - United Arab Emirates
STEELFIRE



Stadium Ryga - Lotwa
ALUFIRE



Lubin Stadium - Poland
ALUFIRE

Louvre Museum Abu Dhabi - Unite Arab Emirates
STEELFIRE



Opera House Dubai - United Arab Emirates
STEELFIRE



Skyview Dubai - United Arab Emirates
STEELFIRE



Jameel Arts Center Dubai - United Arab Emirates

STEELFIRE



Wanda Metropolitano Stadium - Germany
ALUFIRE



Hospital & Hotel



Hospital La Maz Zaragoza - Spain
STEELFIRE



Hospital QuirónSalud
ALUFIRE



Hospital San José Madrid - Spain
ALUFIRE



Hospital Mollet - Spain
STEELFIRE



Burjeel Hospital- United Arab Emirates
ALUFIRE



Radisson Blue Hotel Madrid - Spain
STEELFIRE



Four Seasons Hotel Abu Dhabi - United Arab Emirates
ALUFIRE



Fairmont Hotel Abu Dhabi - United Arab Emirates
ALUFIRE

Lift and Parking



Office Complex- Madrid Spain
STEELFIRE



Barcelona Sants - Spain
STEELFIRE

Daman Insurance Headquarters - United Arab Emirates
ALUFIRE



Düsseldorf International Airport - Germany
ALUFIRE



Shopping Mall - Madrid, Spain
STEELFIRE





Shopping Center - Madrid Spain
STEELFIRE



Historical Building



Palacio del Marqués de Salamanca BBVA Madrid - Spain
STEELFIRE



Hotel Doña María Seville - Spain
ALUFIRE



Centro de Investigaciones Sociológicas Madrid Spain
ALUFIRE

Círculo Bellas Artes - Spain
ALUFIRE



Casa Padellás Barcelona - Spain
ALUFIRE



Casa Batlló Barcelona - Spain
STEELFIRE



Al Maegliah Historical Markets Riyadh - Kingdom of Saudi Arabia
STEELFIRE



Alcala 28 Madrid - Spain
ALUFIRE

School



School/Day Care - Spain
STEELFIRE



New York University Abu Dhabi - United Arab Emirates
ALUFIRE

King Abdullah University - Saudi Arabia
ALUFIRE



Petroleum Institute Abu Dhabi - United Arab Emirates
STEELFIRE



University of Dammam Hospital - Saudi Arabia
STEELFIRE



Sorbonne University
STEELFIRE



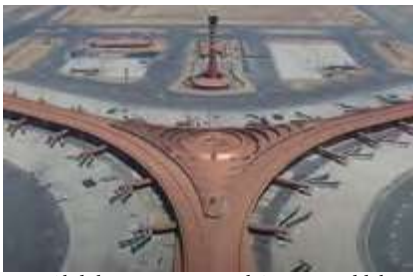
Círculo de Bellas Artes - Spain



Círculo de Bellas Artes
Madrid, Spain



Space Center
Al Ain, United Araba Emirates



King Abdulaziz International Airport, Jeddah,
Saudi Arabia



Sorbonne University
Abu Dhabi, United Arab Emirates



Wanda Metropolitano
Madrid, Spain



The Pulse Townhouses Dubai South
United Arab Emirates



Equinix at Dubai Production City
United Arab Emirates



Bayer's Office at Dubai Science Park
United Arab Emirates



Hospital San Jose
Spain



Yas Marina Circuit
Abu Dhabi, United Arab Emirates



Mall of Qatar
Doha, Qatar



Palace of Justice
Spain



Pfizer Madrid
Spain



Swarovski Dubai
United Arab Emirates



BlackRock DIFC
Dubai, United Arab Emirates



The Grand Zone
Qatar



Fatima Bint Mubarak Sports Academy
Abu Dhabi, United Arab Emirates



Statistical Center Abu Dhabi
United Arab Emirates



Casa Batlló
Barcelona, Spain



Radisson Blu
Madrid, Spain



Doha Metro Stations
Qatar



Al Maqtao
Abu Dhabi, United Arab Emirates



Yas South Destination Resort and Family Hotel
Yas Island, Abu Dhabi, United Arab Emirates



Los Fresnos Shopping Center
Gijon, Spain



Casa Padellás
Barcelona, Spain



Ibiza Island Hotel
Spain



Dubai Expo 2020 Metro Station
United Arab Emirates





The Louvre Museum Abu Dhabi
United Arab Emirates



The Opera House Dubai
United Arab Emirates



The Address Residences Sky View Dubai
United Arab Emirates



UAE Exchange Metro Station Dubai
United Arab Emirates



Dubai International Financial Center
United Arab Emirates



Haramain High-Speed Railway Jeddah
Kingdom of Saudi Arabia



EXPO 2020 Mobility Pavilion Dubai
United Arab Emirates



Marriott Hotel Madrid
Spain



King Abdullah University of Science &
Technology, Saudi Arabia



March Holding HQ DIFC
United Arab Emirates



Qatar National Museum Doha
Qatar



Swarovski Dubai
United Arab Emirates

Louvre Museum - Abu Dhabi, UAE



Castellana 77 Office Complex Madrid
Spain



BSA Law Firm DIFC
United Arab Emirates



Dubai International Airport
United Arab Emirates



Haramain High-Speed Railway KAEC
Saudi Arabia



Haramain High-Speed Railway Makkah
Saudi Arabia



Doha Metro Projects
Qatar



Msheireb Downtown Doha
Qatar



Kwong Wai Shiu Hospital
Singapore



Jameel Arts Centre Dubai
United Arab Emirates



Doha Oasis
Qatar



Al Kout Mall Safat
Kuwait



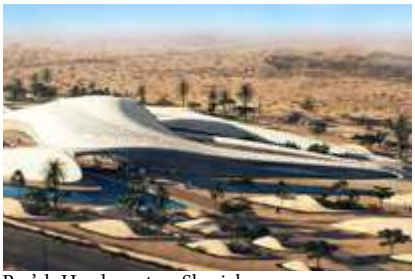
The Changi Water Reclamation Plant
Singapore



Al Raha Beach Tourism Complex Abu Dhabi
United Arab Emirates



Paseo de la Castellana 94 Madrid
Spain



Bee'ah Headquarters Sharjah
United Arab Emirates



Hermes Dubai Mall
United Arab Emirates



Stadion Ryga
Lotwa



CPO Projects in Lusail City
Qatar



Barcelona El Prat Airport
Spain



Coca-Cola Headquarters Madrid
Spain



Midfield International Airport Abu Dhabi
United Arab Emirates



Richemont Office DAFZA Dubai
United Arab Emirates



Mamsha Al Saadiyat Abu Dhabi
United Arab Emirates



Salalah International Airport
Oman



Thalassotherapy Center of Sidi-Fredj
Algeria



Rayhaan Hotel by Rotana
Saudi Arabia



Atlantis Aquarium & Nickelodeon Adventure
Xanadu Mall - Spain



Central Bank of Oman
Oman



Eversheds International Law Firm Dubai
United Arab Emirates



Mastercard Office Building Dubai
United Arab Emirates



Barcelona Sants AVE Railway Station
Spain



Burgeel Medical Center Abu Dhabi
United Arab Emirates



Düsseldolf International Airport
Germany



Fairmont Hotel Abu Dhabi
United Arab Emirates



Dr. Sulaiman Fakeeh Hospital Jeddah
Saudi Arabia



BBVA Foundation Marquis Madrid
Spain



Four Seasons Luxury Hotel Abu Dhabi
United Arab Emirates



New York University Abu Dhabi
United Arab Emirates



Autopodium Volkswagen Dealership Barcelona
Spain



Salwa Resort Doha
Qatar



Spinneys Headquarters Meydan
United Arab Emirates



Stuttgart International Airport
Germany



Abu Dhabi Enery Authority Office
United Arab Emirates



Water and Adventure Park
Salwa Dahab Mountains - Qatar



Khor Al Raha Abu Dhabi
United Arab Emirates



Centro de Investigaciones Sociológicas Madrid
Spain



Stadion Lubin
Poland



Restaurant in Barcelona
Spain



Muscat International Airport
Oman



Marina Tower Doha
Qatar



SANG Hospital Jeddah
Saudi Arabia



Alcala 28 Madrid
Spain



AMMROC
United Arab Emirates



Arenco Tower Dubai
United Arab Emirates



Hail Bakery Plant 7
Saudi Arabia



Huda Beauty Dubai
United Arab Emirates



Ifema Exhibition Center Madrid
Spain



Nad Al Hamar Health Center Dubai
United Arab Emirates



New Al Ain Hospital Abu Dhabi
United Arab Emirates



Peñascal Sport Center Segovia
Spain



Reggane Nord
Algeria



Royal Commission Headquarters
Kingdom of Saudi Arabia



Abu Dhabi Shakbout School
United Arab Emirates



Madrid Central Mosque
Spain



GCPC Doha
Qatar



Barcelona El Prat Airport
Spain



SANG Hospitals Riyadh
Saudi Arabia



The Y Tower Abu Dhabi
United Arab Emirates



Abu Dhabi Investment Authority
United Arab Emirates



Decathlon Tange Sports Store Valencia
Spain



Abu Dhabi Distributing Company DMS Building - United Arab Emirates



H10 Puerta de Alcalá Hotel Madrid
Spain



International School
Doha, Qatar



Amun Capital Abu Dhabi Office Complex
United Arab Emirates



Lycée Français de Madrid
Spain



Jeddah South Thermal Power Plant
Kingdom of Saudi Arabia



Leo Pharma Research Institute Dubai
United Arab Emirates



Red Hat Dubai Software Development Center
United Arab Emirates



Rabigh II Laboratory
Saudi Arabia



Royal Commission Housing Units
Saudi Arabia



Vission Tower Dubai
United Arab Emirates



The Solar Aluminum Smelter Project
Oman



University of Dammam
Saudir Arabia



Cubik Office Building Madrid
Spain



King Abdulaziz International Airport
Saudi Arabia



KKIA Metro Station Riyadh
Saudi Arabia



Sky Tower
Saudi Arabia



Sang Hospital Taif & Al Qassim
Saudi Arabia



Burj Plus
Saudi Arabia



Apple
Saudi Arabia



Sama Building / Central Bank
Saudi Arabia



Granada Mall
Saudi Arabia



University of Business and Technology
Saudi Arabia



Al Maegliah Historical Markets Riyadh
Saudi Arabia



Masar
Saudi Arabia



KAFD Various Parcel
Saudi Arabia



Burj Ramla - Fairmont
Saudi Arabia



DUG Metro Station Riyadh
Saudi Arabia



Saudi German Hospital
Saudi Arabia



Makkah Bus Station
Saudi Arabia



Red Sea Office
Saudi Arabia



KFSH Private Wing
Kingdom of Saudi Arabia



Aramco Innovation Center
Saudi Arabia



The Walk
Saudi Arabia



Leading Company in fire-resistant glazing systems

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