DORTEK

Comprehensive range of certified high-security doors

GUNNEBO®
For a safer world

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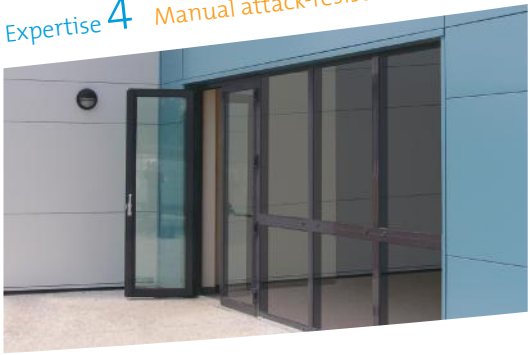
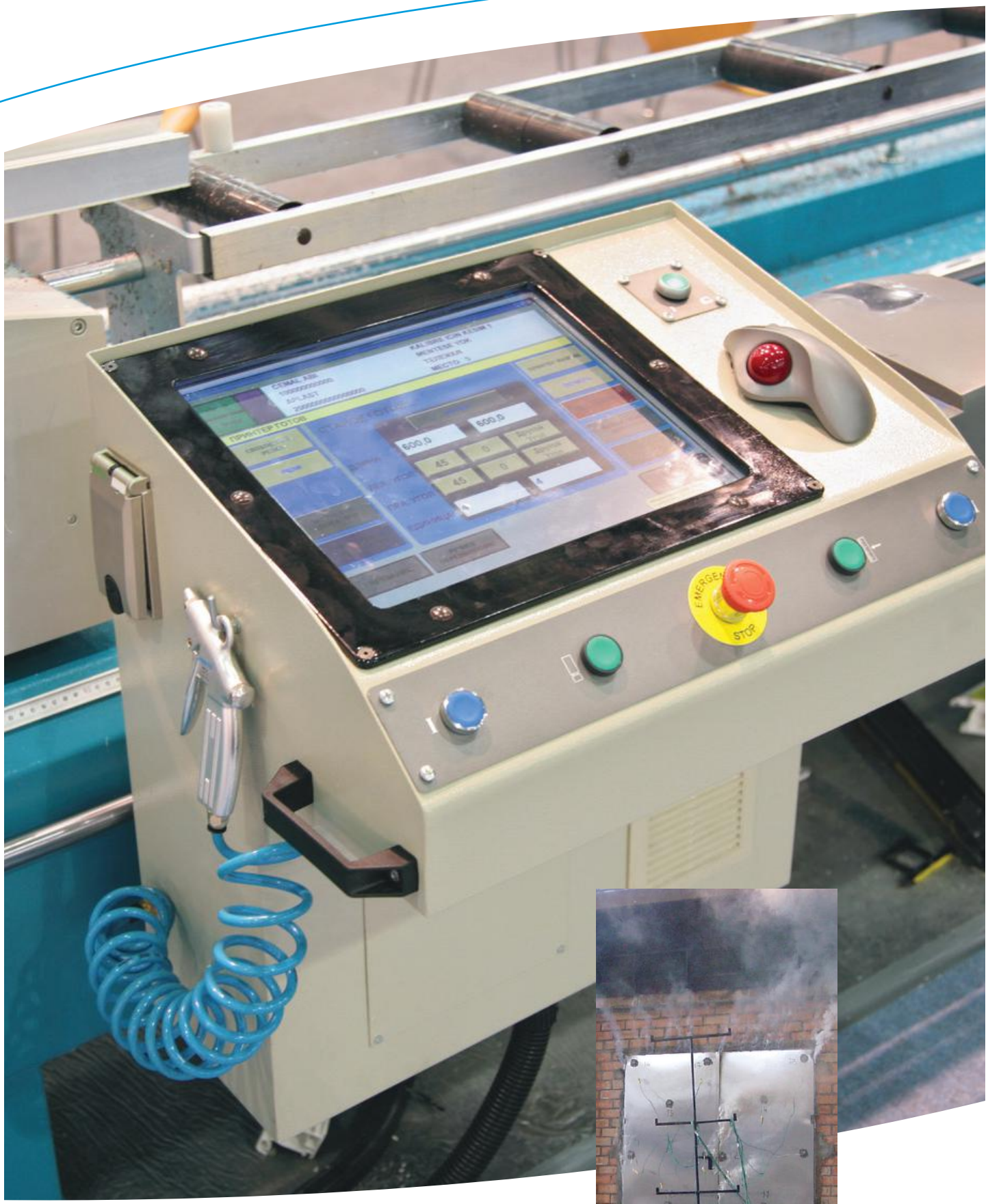



EMERGE
STOP

Full knowledge of standards and regulations

Designed by our research department, which is fully aware of market needs, Gunnebo security doors are manufactured in specialist security production units.

Before being launched to the market, the doors undergo stringent testing to ensure they meet required standards and will perform reliably.

Gunnebo doors are developed to comply with the European security standards for the material used.

All Gunnebo doors can be fitted with motorized locking systems, the only limitation being the validity of the test or certification in the event of their being used with locks other than those for which they have been approved. These locks ensure that doors equipped with access control systems can be securely closed, and improve the way in which the doors operate in the event of evacuation.

Gunnebo is able to completely design building facades, using profiles and structures from its range

of doors and providing them with bullet-or blast-resistant properties.

Gunnebo can also provide installation by specialist engineers. It can have high-level maintenance of the installed equipment carried out by expert service engineers, and can provide training.

Experience

With more than 100 years of experience in the design and the manufacture of security doors, Gunnebo provides its customers with unique expertise in physical security solutions, access control, effective management and high-security systems.

Its range of security doors has been developed to protect people, buildings and property by providing sites, their staff and their customers with maximum security.

To improve the security of sensitive locations, from car parks, shopping centres or corporate head offices to airports, banks or nuclear power plants,

Gunnebo offers a wide range of high-security doors, all of which have been tested and certified by independent organizations and laboratories in accordance with European standards and regulations.

Manual attack-resistant doors

MagTek

Theft and manual attack protection

Among the existing types of doors, manual attack-resistant doors offer a degree of security against attempts to gain access or carry out sabotage using attack tools.

Manual attack protection is easily understood to be protection against intrusion, burglary and vandalism, with manual attack doors being the best solution for protecting public administration buildings, banks, CITs, retail sites, embassies or buildings used in the chemicals sector.

Based on its advanced expertise in security, Gunnebo has developed a range of manual attack-resistant doors to protect people, property and assets from theft and attack. MagTek doors are manufactured in several versions to meet a variety of customer requirements. They are designed so that they can be easily integrated into both existing areas and new constructions. Made from aluminium or special steel, they have an elegant appearance.

Featuring successive special steel armouring, MagTek doors can provide high-degree protection for sensitive areas such as cash counting rooms, cash transit rooms, back office rooms, security enclosures, etc.

The MagTek range is also provided as thermally-insulated security version in accordance with the European Directives aiming to reduce energy consumption by requiring the adoption of national regulations designed to improve buildings' energy performance. As part of these regulations, thermally insulated elements such as doors, windows and partitions are now increasingly mandatory on public and private buildings across the European Union.

Gunnebo helps you to meet the national regulations and to address your expectations for reduced energy consumption without compromising the protection you need against manual attacks.

Key features

- Elegant appearance and versatility
- Resistance against manual attack
- Complementary partitions (solid or glass in field) and windows
- Thermally-insulated European Directives total compliance
- Reduced energy consumption for increased cost savings
- Environmentally friendly design that incorporates high recyclability.

Gunnebo difference

1. Single, patented 60mm and 80mm aluminium profiles or 75mm and 92mm (thermally-insulated versions)
2. Tests on the doors carried out by independent laboratories and certification bodies
3. Certification and approval of the whole door-frame-fittings assembly
4. Compliance with regulations currently in force applicable to all models
5. Option to create complete manual attack-resistant facades

Application

Gunnebo's MagTek range of doors have been installed in numerous companies and organizations including in the following:

- Banking entities
- Cash Centres
- Government buildings
- Retailers
- Industry
- CPDs and IT storage centres
- Control centres.

Manual attack-resistant doors

Standards

Established as per the provisions of European standard EN 1627 and resistance to a manual attack (standard EN 1630). According to these standards, manual attack-resistant doors can be classified based on their resistance to attack on 6 different levels. Each of these levels is based on resistance time (calculated in minutes) and the type of tools used.

Rating	Test Time (min)	Attack Time (min)	Test Method (to EN 1627)
1	Without test	Without test	A novice thief tries to open the door using physical violence, for example, kicks, pushing with the shoulder, raising, tearing.
2	15	3	The novice thief tries, in addition, to break the door using simple tools, such as a screw driver, spanner, wedges, etc., for example.
3	20	5	The thief tries to force entry using an additional screw driver and a lever.
4	30	10	The experienced thief uses, in addition, saws, hammers, an axe, chisels and portable battery-powered drills.
5	40	15	The experienced thief, besides electric tools, uses, for example, drills, vibrating and radial saws with a maximum disc diameter of 125mm.
6	50	20	The experienced thief, in addition, uses electrical power tools, such as drills, vibrating and radial saws, for example, with a maximum disc diameter of 230mm.

Manual attack-resistant doors, windows and partitions

Standard technical specifications

Model	Type	Rating	Leaf options	Passage width at 90° (Single/ Double) (mm)	Total standard width: W (Single/ Double) (mm)	Total standard height: H (mm)	Material	Infill
MagTek A0-S Lite	Enhanced Manual Attack-Resistant Doors	–	Single/ Double	900/ 1400	1100/ 1660	2130	Aluminium (60mm thick)	Solid
MagTek A0-G Lite								Glazed
MagTek A3-S	Certified Manual Attack-Resistant Doors	Level RC3 to EN 1627-30	Single/ Double	900/ 1400	1150/ 1720	2130	Aluminium (80mm thick)	Solid
MagTek A3-G								Glazed
MagTek S4-S		Level RC4 to EN 1627-30	Single	900	1132	2171	Steel (80mm thick)	Solid
MagTek A4-S			Single/ Double	900/ 1400	1150/ 1720	2130	Aluminium (80mm thick)	Solid
MagTek A4-G								Glazed
MagTek A5-S		Level RC5 to EN 1627-30	Single/ Double	900/ 1400	1150/ 1720	2130	Aluminium (80mm thick)	Solid
MagTek A5-G								Half Glazed

Optional technical specifications

Model	FB3 bullet resistance	FB4 bullet resistance	FB5 bullet resistance	FB6 bullet resistance	Non-standard width: W (mm)	Non-standard height: H (mm)	Electric locking
MagTek A0-S Lite	–	–	–	–	750–1300/ 1300–2400	2090–2350	○
MagTek A0-G Lite							
MagTek A3-S	○	○	○	○	850–1300/ 1300–2400	2090–2350	○
MagTek A3-G							
MagTek S4-S	–	–	–	○	932–1032	–	○
MagTek A4-S	○	○	○	○	850–1300/ 1300–2400	2090–2350	○
MagTek A4-G							
MagTek A5-S	●	●	●	●	850–1300/ 1300–2400	2090–2350	●
MagTek A5-G	○	○	○	○			

● Standard ○ Optional – Not available

Thermally insulated manual attack-resistant doors, windows and partitions

Standard technical specifications

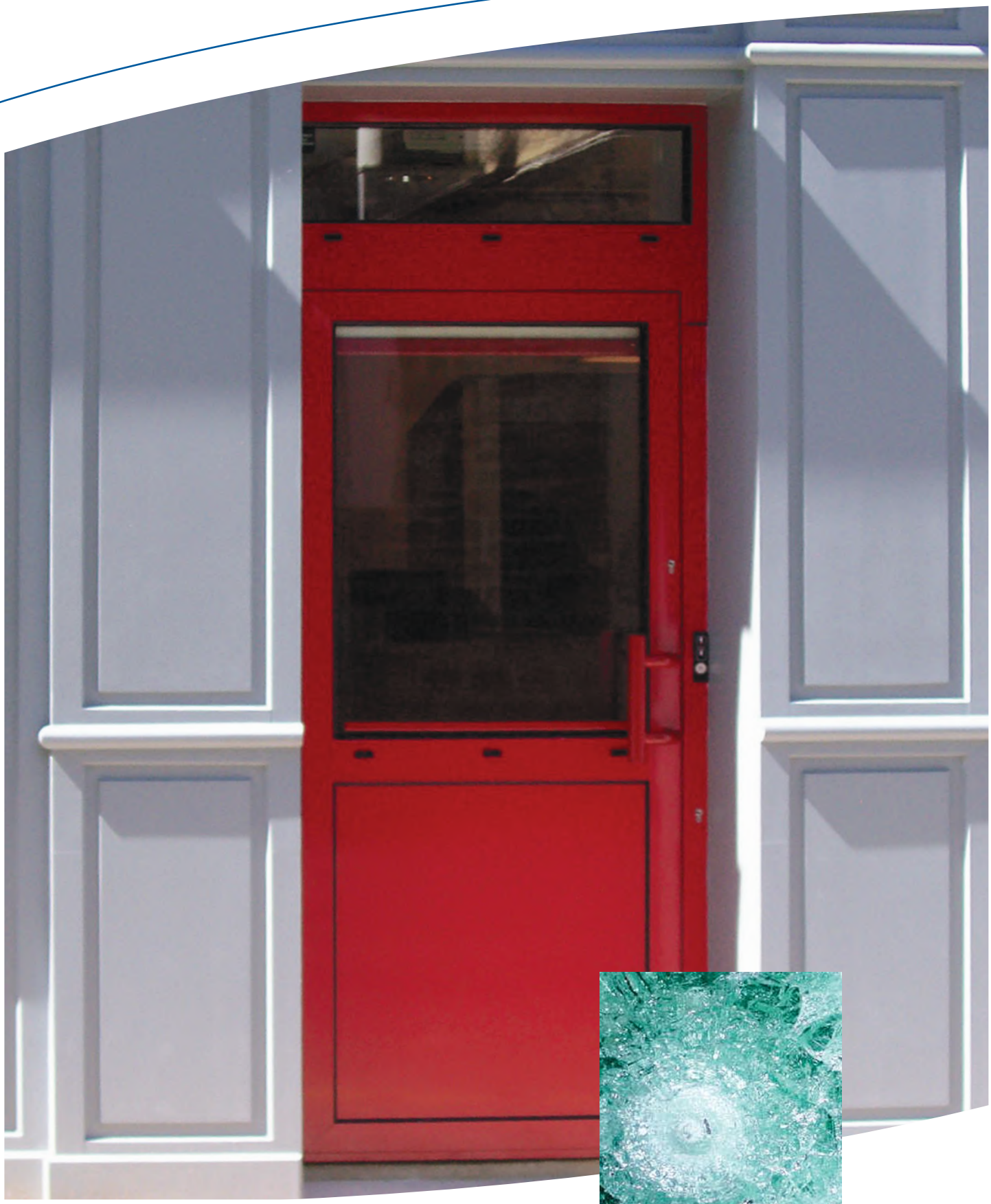
Model	Type	Rating	Leaf options	Passage width at 90° (Single/ Double) (mm)	Total standard width: W (Single/ Double) (mm)	Total standard height: H (mm)	Material	Infill
MagTek IA0-S Lite	Enhanced Thermally-Insulated Manual Attack-Resistant Doors	–	Single/ Double	900/ 1400	1100/ 2100	2130	Aluminium (75mm thick)	Solid
MagTek IA0-G Lite								Glazed
MagTek IA3-S Lite	Certified Thermally-Insulated Manual Attack-Resistant Doors	Level RC3 to EN 1627-30	Single/ Double	900/ 1400	1150/ 1720	2130	Aluminium (75mm thick)	Solid
MagTek IA3-G Lite								Glazed
MagTek IA4-S		Level RC4 to EN 1627-30	Single/ Double	900/1800	1150/2130	2130	Aluminium (92mm thick)	Solid
MagTek IA4-S								Glazed

Optional technical specifications

Model	FB3 to FB6 bullet resistance	Non-standard width (Single/ Double): W (mm)	Non-standard height: H (mm)	Electric locking
MagTek IA0-S Lite	–	910–1300/ 1210–2400	2050–2500	○
MagTek IA0-G Lite				
MagTek IA3-S Lite	–	910–1300/ 1210–2400	2050–2500	○
MagTek IA3-G Lite				
MagTek IA4-S	○	980–1280/ 1300-2500	2050–2500	○
MagTek IA4-G				

○ Optional – Not available

Bullet-resistant doors



DarTek

Ballistic attack protection

DarTek bullet-resistant doors are designed to offer a high degree of protection against physical and fire-arm attacks.

Constructed from special 80mm aluminium or steel profiles in combination with steel armour, DarTek doors provide a ballistic resistance of up to FB6 in accordance with EN 1522.

The DarTek range is a closing solution developed to meet users' bullet-resistant and intrusion-protection requirements. Because of its versatility, the range can be used for both building refurbishments or with new constructions. This way, by installing a bullet-resistant door, an armoured structure can be configured so as to transform any internal space into an armoured room.

The DarTek range is also provided as thermally-insulated security version in accordance with the European Directives aiming to reduce energy consumption by requiring the adoption of national regulations designed to improve buildings' energy performance. As part of these regulations, thermally insulated elements such as doors, windows and partitions are now increasingly mandatory on public and private buildings across the European Union.

Gunnebo helps you to meet the national regulations and to address your expectations for reduced energy consumption without compromising the protection you need against ballistic attacks.

Key features

- Elegant appearance
- Certified bullet resistance
- Versatility
- Complementary bullet-resistant windows and partitions
- Thermally-insulated European Directives total compliance
- Reduced energy consumption for increased cost savings
- Environmentally friendly design that incorporates high recyclability.

Gunnebo difference

1. Tests on doors carried out by independent laboratories and certification bodies
2. Compliance with regulations currently in force applicable to all models
3. Exclusive design using a DarTek aluminium profile that provides resistance levels of up to FB6
4. Option of creating comprehensive facade protection solutions including panels and windows

Application

Gunnebo DarTek bullet-resistant doors have been installed in a large number of companies throughout Europe, including:

- Bank branches
- Cash Centres
- Embassies
- Retail chain stores and establishments
- Alarm reception centres
  – Industrial plants
- Fund transport centres
  – Police stations

Bullet-resistant doors

Standards

- EN 1522: Bullet-resistant windows, doors, closures and blinds. Prescription and classification (EN 1523 for the test method).
- Standard EN 1522 defines 7 classes of resistance for handguns and rifles/carabines FB1 to FB7, as well as a class for FSG shotguns.
- EN 1063: Security glass, together with tests and certification of resistance to bullet attacks.

Standard EN 1063 defines 7 classes of resistance for handguns and rifles/carabines: BR1 to BR7 and 2 classes for shotguns SG1 to SG2. The classification number is followed by “S” if the glass fails the projection test (splinters) and by “NS” if it passes the test (no splinters).

EN 1522	Shooting	EN 1063	Shooting	Weapon	Calibre
FB1	1	BR1	3	Rifle/Carbine	22 LR
FB2	1	BR2	3	Handgun	9mm Luger
FB3	1	BR3	3	Handgun	357 Magnum
FB4	1	BR4	3	Handgun	357 Magnum or 44 Magnum
FB5	1	BR5	3	Rifle/Carabine	5.56 x 45
FB6	1	BR6	3	Rifle/Carabine	5.56 x 45 or 7.62 x 51
FB7	1	BR7	3	Rifle/Carabine	7.62 x 51
FSG	1	SG1	1	Shotguns	12/70
FSG	1	SG2	3	Shotguns	12/70

Bullet-resistant doors, windows and partitions

Standard technical specifications

Model	Type	Rating	Leaf options	Passage width at 90° (Single/ Double) (mm)	Total standard width: W (Single/ Double) (mm)	Total standard height: H (mm)	Aluminium framework	Infill
DarTek A3-S	Certified Bullet Resistant Doors	FB3 to EN 1522	Single/ Double	900/ 1400	1150/ 1720	2130	80mm thick	Solid
DarTek A3-G								Glass BR3 to EN 1063
DarTek A4-S		FB4/FSG to EN 1522	Single/ Double	900/ 1400	1150/ 1720	2130	80mm thick	Solid
DarTek A4-G								Glass BR4 to EN 1063
DarTek A5-S		FB5/FSG to EN 1522	Single/ Double	900/ 1400	1150/ 1720	2130	80mm thick	Solid
DarTek A5-G								Glass BR5 to EN 1063
DarTek A6-S		FB6/FSG to EN 1522	Single/ Double	900/ 1400	1150/ 1720	2130	80mm thick	Solid
DarTek A6-G								Glass BR6 to EN 1063

Optional technical specifications

Model	Non-standard width (Single/Double) (mm)	Non-standard height (mm)	Electric locking
DarTek A3-S	850–1300/ 1300–2400	2090–2350	○
DarTek A3-G			
DarTek A4-S	850–1300/ 1300–2400	2090–2350	○
DarTek A4-G			
DarTek A5-S	850–1300/ 1300–2400	2090–2350	○
DarTek A5-G			
DarTek A6-S	850–1300/ 1300–2400	2090–2350	○
DarTek A6-G			

○ Optional

Thermally insulated bullet-resistant doors, windows and partitions

Standard technical specifications

Model	Type	Rating	Leaf options	Passage width at 90° (mm)	Total standard width: W (mm)	Total standard height: H (mm)	Aluminium framework	Infill
DarTek IA3-S	Thermally-Insulated Certified Bullet Resistant Doors	FB3 to EN 1522	Single/ Double	900/1800	1150/2130	2130	92mm thick	Solid
DarTek IA3-G								Glass BR3 to EN 1063
DarTek IA4-S		FB4/FSG to EN 1522	Single/ Double	900/1800	1150/2130	2130	92mm thick	Solid
DarTek IA4-G								Glass BR4 to EN 1063
DarTek IA5-S		FB5/FSG to EN 1522	Single/ Double	900/1800	1150/2130	2130	92mm thick	Solid
DarTek IA5-G								Glass BR5 to EN 1063
DarTek IA6-S		FB6/FSG to EN 1522	Single/ Double	900/1800	1150/2130	2130	92mm thick	Solid
DarTek IA6-G								Glass BR6 to EN 1063

Optional technical specifications

Model	Non-standard width (mm)	Non-standard height (mm)	Electric locking
DarTek IA3-S	980–1280/ 1300-2500	2050–2500	○
DarTek IA3-G			
DarTek IA4-S	980–1280/ 1300-2500	2050–2500	○
DarTek IA4-G			
DarTek IA5-S	980–1280/ 1300-2500	2050–2500	○
DarTek IA5-G			
DarTek IA6-S	980–1280/ 1300-2500	2050–2500	○
DarTek IA6-G			

○ Optional

Bullet-resistant doors

Resistance to Kalashnikov weapons

There is increasing concern about the Kalashnikov attacks, and whilst no European standards currently apply to these weapons, Gunnebo has conducted own rigorous tests in an independent and accredited laboratory to provide the DarTek IA-K47 security doors, windows and frames, a new solution to protect against kalashnikov attacks.

This gun is actually relatively easy to find – particularly through arms trafficking. In fact, there are as many as 1 Kalashnikovs for every 70 people on the planet*. The Kalashnikov is particularly popular among terrorists. Its penetration power varies depending on the type of ammunition used. The most common ammunition with the one of the highest penetration powers is the FMJ/PB/FeC (PS Ball or MSC: Mild Steel Core); this 7.62 x 39 calibre M43 bullet requires protection level 6 in accordance with the international VPAM APR 2006 standard.

When deciding what types of doors and partitions to install, it is vital to test the ballistic resistance of the glass and joinery assembly.

Gunnebo is aware of the security problems posed by this weapon, and so has developed a range of doors and partitions – as well as shielded windows – which are able to withstand Kalashnikov attacks.

DarTek IA-K47 is built on a 92mm aluminum profile that integrates additional shielding to resist the impact of PS Ball or MSC balls as well as FB6 level ammunition.

A 92-mm aluminium section features additional shielding, providing resistance against PS Ball or MSC bullets, as well as level FB6 ammunition. The DarTek IA K47 is available in a 1 and 2-leaf door versions (opening inwards or outwards), in a fixed partition version, and in a 1-leaf window version. It is available with a shielded solid glass security panel. All models are provided as thermally-insulated security version to comply with the European Directives for energy consumption reduction.

DarTek IA-K47 security doors and windows offer a superior level of protection for the most demanding applications to ensure the safety of your personnel or property from direct kalashnikov firearms.

* sources: Gunnebo

Kalashnikov weapon-resistant doors, windows and partitions

Standard technical specifications

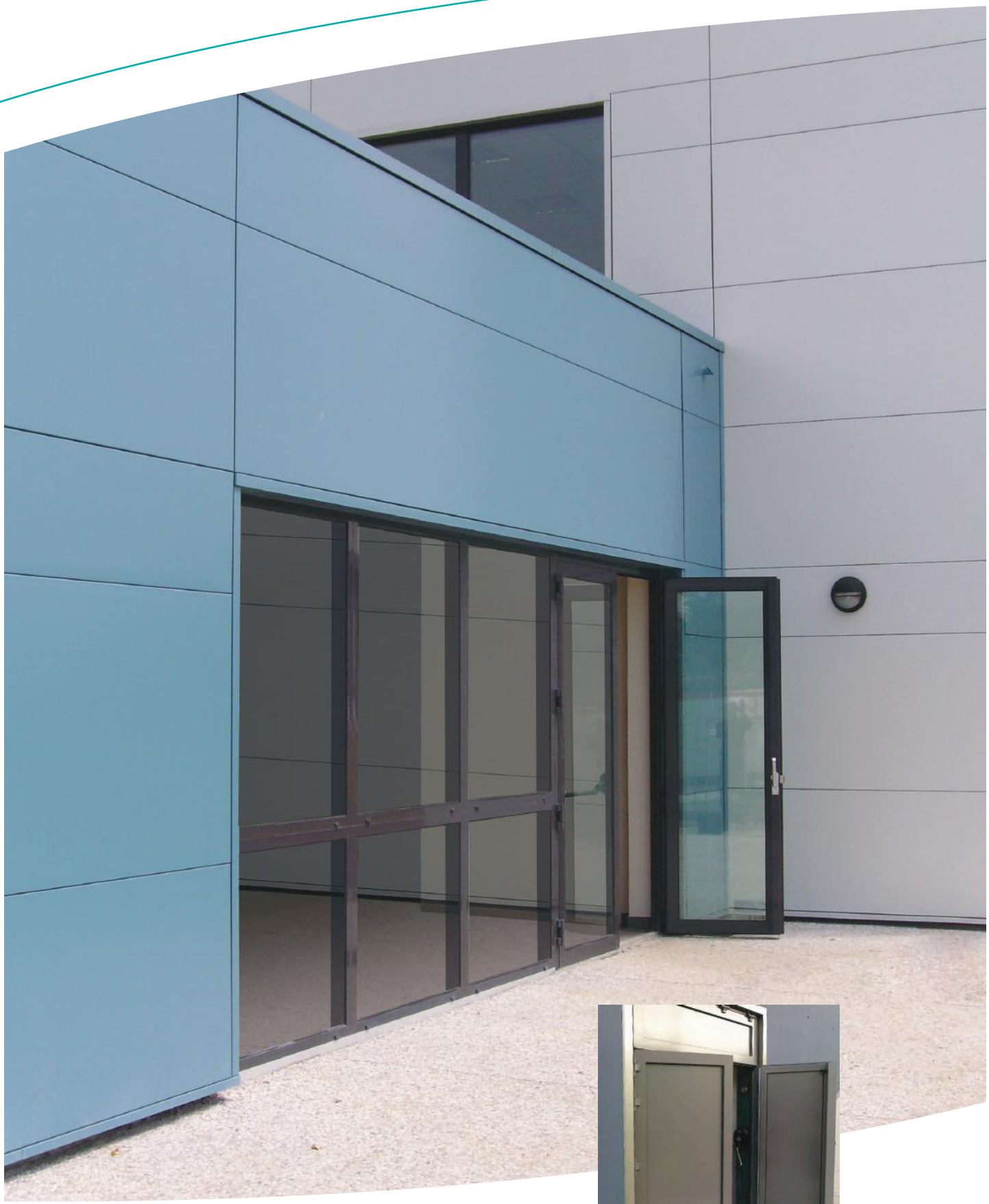
Model	Rating		Leaf	Total standard dimensions (mm)		Door opening at 90°		Aluminium framework	Infill
				Width	Height	Passage width (mm)	Passage height (mm)		
DarTek IA-K47 4-G	PS Ball to EN 1523	FB4/FSG to EN 1522	Single/ Double	1150/ 2130	2130	900/1800	2050	92mm thick	Glass BR4 NS to EN 1063
DarTek IA-K47 6-G	PS Ball to EN 1523	FB6/FSG to EN 1522	Single/ Double	1150/ 2130	2130	900/1800	2050	92mm thick	Glass BR6 NS to EN 1063
DarTek IA-K47 6-S	PS Ball to EN 1523	FB6/FSG to EN 1522	Single/ Double	1150/ 2130	2130	900/1800	2050	92mm thick	Solid FB6 NS to EN 1522

Optional technical specifications

Model	Manual attack resistance	Blast resistance	Non standard width (mm)	Non standard height (mm)	Electric locking
DarTek IA-K47 4-G	RC4 to EN 1627/30	–	980-1280/ 1300-2500	2050-2500	○
DarTek IA-K47 6-G	RC4 to EN 1627/30	○	980-1280/ 1300-2500	2050-2500	○
DarTek IA-K47 6-S	RC4 to EN 1627/30	○	980-1280/ 1300-2500	2050-2500	○

Note: The DarTek IA-K47 offering features, doors, windows and partitions, all of which are tested to resist kalashnikov attacks with PS Ball ammunition.

○ Optional – Not available



BlasTek

Detonation and deflagration protection

An explosion is a sudden release of gas at high pressure in the environment. Sudden, because the release must be sufficiently rapid for the energy contained in the gas dissipated via a shock wave.

High pressure because at the instant the pressure is released, the gas pressure is greater than the surrounding atmospheric pressure.

The explosion creates an expansion or overpressure wave which, when it encounters an obstacle, creates a pressure peak also known as “reflected pressure” that is approximately twice as intense as the initial pressure. After this impact, there is a depression (negative pressure) equivalent to 1/3 of the pressure peak.

Drawing on its long experience operating on sensitive markets exposed to the risks of accidental or terrorist explosions, Gunnebo has designed the BlasTek range of products to offer door solutions that can meet the most demanding requirements for protection of personnel, property and assets. The BlasTek range has been tested against the most demanding standards, including tests equivalent to 100kg of TNT for a large number of special applications, always carried out in accordance with EN standards 13123/4-1 and ISO/DIS 16933.

This standard covers three types of “blast” according to their duration and intensity: detonation, deflagration and explosion. For protection against detonation, the BlasTek range has been validated with a pressure detonation of up to 15 tonners per square metre over a period of 20 milliseconds (EPR3).

For protection against deflagration, the BlasTek door has been validated with a detonation of 6.3 tonnes per square metre of pressure over a period of 300 milliseconds (EN 13123/4-1).

Key features

- Elegant and seamless appearance
- Resistance against blast pressure
- Versatility
- Complementary blast-resistant windows and partitions

Gunnebo difference

1. Variety of sizes and finishes
2. Products tested in ShockTube and in the open field in accordance with reference standards
3. Tests are carried out on the whole assembly (frame, door and fittings), this being the only way to ensure resistance and compliance with the standard
4. Resistance of up to 15t/m^2
5. More than 50 tests carried out in 7 test programmes

Application

Gunnebo’s BlasTek doors have been installed in a large number of companies and organizations^2, including:

- Embassies
- Ministries and Public Administration
- Oil Companies
- Chemical industries
- etc

Blast-resistant doors

Standards

- Since 2000, the 2 European standards which have been used to qualify the sets of structures (frame+infill+locks) are those described in Standards EN 13123/124-1 and EN 13123/124-2.
- Standard EN 13123/124-1 is valid for windows, doors and partitions with tests carried out in Shock-Tubes, whereas the Standard EN 13123/124-2 is based on open field tests.
- There is also International Standard ISO DIS 16933 which applies to windows and doors with two types of classification (car bombs and satchel bombs) and 6 levels of resistance, depending on the damage caused.
- When the European standards cannot be used to classify a material, a reference table is used.

Classification resistance	Standard	Load explosive TNT	Distance (m)	Duration (ms)	Pressure reflected (bar)	impulse positive I + (bar.ms)
EPR1	EN 13123/124-1	–	–	≥20	0.5	3.7
EPR2	EN 13123/124-1	–	–	≥20	1	9
EPR3	EN 13123/124-1	–	–	≥20	1.5	15
EPR4	EN 13123/124-1	–	–	≥20	2	22
EXR1	EN 13123/124-2	3	5	–	2.5	3
EXR2	EN 13123/124-2	3	3	–	8	5
EXR3	EN 13123/124-2	12	5.5	–	7	7
EXR4	EN 13123/124-2	12	4	–	16	10
EXR5	EN 13123/124-2	20	4	–	28	15

1bar = 10t/m^2 = 100kPa

Standard technical specifications

Model	Type/Test	Reflected pressure peak	Reference standard	Leaf options	Passage width at 90° (Single/ Double) (mm)	Total standard width: W (Single/ Double) (mm)	Total standard height: H (mm)	Aluminium framework	Infill
BlasTek AF20-S Lite	Deflagration Mitigation Doors/ Shock Tube	22kPa for 300ms	EN 13123/4-1	Single/ Double	900/ 1400	1150/ 1660	2150	60mm thick	Solid
BlasTek AF20-G Lite									Glazed
BlasTek AF50-S		50kPa for 300ms		Single/ Double	900/ 1400	1150/ 1720	2150	80mm thick	Solid
BlasTek AF50-G									Glazed
BlasTek AT25-S	Detonation Mitigation Doors/ Shock Tube	25kPa for 35ms	EN 13123/4-1	Single/ Double	900/ 1400	1150/ 1720	2150	80mm thick	Solid
BlasTek AT25-G									Glazed
BlasTek AT50-S		50kPa for 35ms	EN 13123/4-1 – EPR1 (20ms)	Single/ Double	900/ 1400	1150/ 1720	2150	80mm thick	Solid
BlasTek AT50-G									Glazed
BlasTek AT100-S	Detonation Mitigation Doors/ Shock tube	100kPa for 35ms	EN 13123/4-1 – EPR2 (20ms)	Single/ Double	900/ 1400	1150/ 1720	2150	80mm thick	Solid
BlasTek AT100-G									Glazed
BlasTek AT150-S		150kPa for 35ms	EN 13123/4-1 – EPR3 (20ms)	Single/ Double	900/ 1400	1150/ 1720	2150	80mm thick	Solid
BlasTek AT150-G									Glazed
BlasTek AX25-S	Explosion Migration Doors/Open Field	87kPa for 12ms	lSO/DIS 16933–100kg TNT charge at 25m	Single/ Double	900/ 1400	1150/ 1720	2150	60mm-thick (single)/ 80mm-thick (double)	Solid
BlasTek AX25-G									Glazed

Optional technical specifications

Model	FB2 bullet resistance	FB5 bullet resistance*	FB6 bullet resistance*	Non-standard width (Single/ Double) (mm)	Non-standard height (mm)	Electric locking
BlasTek AF20-S Lite	–	–	–	800–1150/ 1580–2170	2090–2150	○
BlasTek AF20-G Lite	–	–	–			
BlasTek AF50-S	●	○	○	800–1150/ 1580–2170	2090–2150	○
BlasTek AF50-G	●	○	–			
BlasTek AT25-S	●	○	○	800–1150/ 1580–2170	2090–2150	○
BlasTek AT25-G	–	○	–			
BlasTek AT50-S	●	○	○	800–1150/ 1580–2170	2090–2150	○
BlasTek AT50-G	–	○	–			
BlasTek AT100-S	●	○	○	880–1150/ 1580–2170	2090–2150	○
BlasTek AT100-G	●	○	–			
BlasTek AT150-S	●	**	–	880–1150/ 1580–1720	2130–2150	○
BlasTek AT150-G	●	**	–			
BlasTek AX25-S	–	–	–	880–1150/ 1580–2170	2130–2150	○
BlasTek AX25-G	–	–	–			

* Up to given bullet resistance

● Standard ○ Optional – Not available ** Optional up to FB4 bullet resistance


EXIT

VulTek

Fire protection

In the field of fire prevention, there is no doubt that it is preferable to compartmentalize buildings into fire sectors by means of fire-resistant elements.

This minimizes the risk to people by isolating the fire in a limited area and preventing it from spreading.This makes it easier to extinguish and reduce losses. For this reason, it is very important that all doors giving access to the areas to be compartmentalized are approved and certified as being fire-resistant.

Gunnebo's VulTek doors are designed in accordance with their own, patented design developed from years of experience and protected by a number of patents. Their quality and efficiency have been proven and duly approved by a number of official European bodies.

The VulTek range of products provides maximum protection by isolating a fire in a limited area of the bulding and preventing it from spreading.
VulTek doors consist of fully-certified doorsets in accordance with the European Standard EN 1634-1 with fire resistance times given as ranging from 1 to 4 hours for both insulation and integrity.

VulTek doors are a product of Gunnebo technology, developed as a result of time and experience, covering different protection needs and combining aesthetics with quality. Depending on the function for which they are designed, they can be fitted with accessories such as anti-panic bars, door-closers, electric locks, access controls, etc.

Key features

- Certified offering: 1 to 4 hours fire resistance
- Ease of installation
- Modular dimensions
- Choice of finishes and accessories

Gunnebo difference

1. Our own patented design developed over 100 years of experience in fire-resistant products
2. Option for all types of customization, depending upon the size of accessories or levels of resistance
3. Products approved by official European bodies (CE mark and appropriate fire-rating)
4. Quality finishes and option of customization for integration with surroundings
5. Maximum requirement as regards ISO 9001 and 14001 quality standards

Application

Gunnebo, with over 100 years of experience in the manufacture and distribution of fire-resistant products has earned the trust of its customers in the field of fire-resistant doors.

Gunnebo has a wealth of experience in the design, manufacture and installation of special fire-resistant doors adapted for the particular features of the most complex locations.

Given the special characteristics that these doors feature, Gunnebo has an engineering department that collaborates with the architect and project engineering offices on the design of made-to-measure solutions, ensuring compliance with safety regulations, requirements and standards.

Several leading firms are among our main customers, as well as a large number of state institutions and multinational companies.

Fire-resistant doors

Leaves and Frames

All Gunnebo VulTek doors meet the requirements of Standard EN 1634-1.

The leaves are made from two electro-galvanized plates folded at the edges so that they can be assembled.

The frames are self-supporting, which means that they can be assembled and the leaves hung afterwards, thus preventing them from being damaged. Similarly, they do not need a frame: it is also pre-assembled, which is a major cost saving. The leaf is hinged on the frame using CE mark hinges in accordance with the EN Standard.

Compliance with these regulations ensures that our products provide optimum resistance and maximum safety.

Thermal insulation and sealing

The Technical Building Code defines the way in which the fire-resistant doors are named based on their EI_2 laboratory classification, where E signifies the constructive element and I, the insulation or capacity to withstand exposure to fire.

VulTek doors can reach level EI_2 from 60 minutes up to 240 minutes thanks to a combination of mineral insulation and a seal made from intumescent material that, in the event of fire, swells with a rise in temperature filling the hollow between the steel and the leaf, thus providing a seal and preventing the passage of smoke and combustion gases.

Standard technical specifications

Model	Type	Rating	Leaf options	Total standard width: W (Single/ Double) (mm)	Total standard height: H (mm)
VulTek S60-S	Certified Fire Resistant Doors to EN 1634-1	EI_2 – 60 minutes	Single/ Double	1050/ 1750	2175
VulTek S90-S		EI_2 – 90 minutes	Single/ Double	1050/ 1750	2175
VulTek S120-S		EI_2 – 120 minutes	Single/ Double	1050/ 1750	2175
VulTek S180-S		EI_2 – 180 minutes	Single/ Double*	1050/ 1750	2175
VulTek S240-S		EI_2 – 240 minutes	Single/ Double*	1050/ 1750	2175

* Double leaf version of VulTek S180-S/S240-S consists of a pedestrian door together with a fixed hinged panel. These models are specially designed for access to technical rooms and passage of heavy and fire hazardous machinery.

Optional technical specifications

Model	Non-standard width (Single/Double) (mm)	Non-standard height (mm)	Mechanical locking options (Single/Double)
VulTek S60-S	750–1180/ 1150–1990	2075–2775	3-point/ 2+1-point
VulTek S90-S	750–1180/ 1150–1990	2075–2275	3-point/ 2+1-point
VulTek S120-S	750–1180/ 1150–1990	2075–2275	3-point/ 2+1-point
VulTek S180-S	750–1180/ 1150–1990	2075–2275	3-point/ 2+1-point
VulTek S240-S	750–1180/ 1150–1990	2075–2275	3-point/ 2+1-point

Fire-resistant doors

Combined protection: fire, manual attack, ballistic and blast

Security is continuously evolving as the risks, the technologies and the vulnerabilities are changing. Thus the need for security doors offering two or more physical resistances is increasing. At high-security sites, as well as public and commercial buildings environments, companies are requesting protection that combines resistance against fire, burglary, ballistic attacks or blasts.

As fire protection requires specialists, Gunnebo has developed the VulTek+, a new range of security doors that offers multi resistance against fire, manual and ballistic attacks or blast protection, and which is certified in accordance with the European standards.

VulTek+ is available in aluminium and steel versions and delivers impressive resistance while ensuring an aesthetic design.

VulTek+ A

Developed to be installed inside the buildings, VulTek+ A features a single door solution that is certified in classes E30 and E60 according to EN 1634-1, providing up to 60 minute fire integrity. The VulTek+ range also includes a door version that is tested and certified for Level EI30, providing additional resistance for manual attack, for ballistic protection and for blasts. This model is also available as thermally-insulated security version to comply with the European Directives for energy consumption reduction.

VulTek+ S

VulTek+ S is a complete range for single and double-leaf fire doors. All models achieved fire integrity and insulation resistance up to 60 minutes according to EN 1634-1, preventing from the spread of fire and smoke but also from the penetration of heat radiation. They combine manual attack and ballistic resistance. VulTek+ S doors can be equipped with a wide range of additional features allowing clear benefits of multiple resistances on site.

VulTek+ S will be available in quarter 3 2017

Multi-resistant doors, windows and partitions

Standard technical specifications

Model	Rating		Leaf	Total standard dimensions (mm)		Door opening at 90°		Aluminium framework	Infill
	Fire resistance	Ballistic resistance		Width	Height	Passage width (mm)	Passage height (mm)		
VulTek+ A E30-S	E30 to EN1634-1 EN 13501-2	FB6/FSG to EN 1522	Single	1150	2130	900	2050	80mm thick	Solid
VulTek+ A E60-S*	E60 to EN1634-1 EN 13501-2	FB6/FSG to EN 1522	Single	1150	2130	900	2050	80mm thick	Solid
VulTek+ IA EI30-S	EI30 to EN1634-1 EN 13501-2	FB6/FSG to EN 1522	Single	1150	2130	900	2050	92mm thick	Solid

* Fire resistance only on hinge side.

Optional technical specifications

Model	Manual attack resistance	Blast resistance	Non standard width (mm)	Non standard height (mm)	Electric locking
VulTek+ A E30-S	RC5 to EN 1627/30	–	850-1150	2050-2500	○
VulTek+ A E60-S*	RC5 to EN 1627/30	–	850-1150	2050-2500	○
VulTek+ IA EI30-S	RC4 to EN 1627/30	EPR1 to EN 13123/124-1	980-1150	2050-2500	○

* Fire resistance only on hinge side.

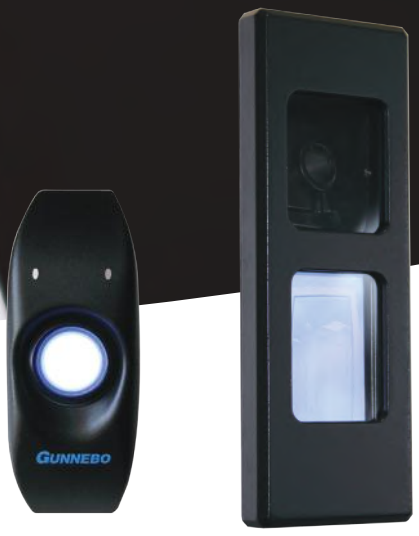
○ Optional – Not available

Added-value door solutions

A door can be converted into an intelligent security component by integrating detection or video signal systems into the door structure.

By adding security features, doors can be turned into intelligent units – an additional component designed to provide active protection. They can be fitted with integrated CCTV systems featuring cameras, converting the door structure into a deterrent.

Electronic applications can also be added to them, flush-mounted into the frame/profile. This way, the doors can be remote controlled or connected to other doors, creating an "airlock affect" or a system whereby people may only pass through them in predetermined patterns.



DorTek Plus

Intelligent doors to serve security

Gunnebo-certified security doors have been designed to satisfy the need to protect people, property and assets from risks such as manual and ballistic attacks, as well as blasts, whilst maintaining an elegant appearance.

To meet the ever-increasing need for greater control and monitoring – both within the building envelop and inside properties – these efficient protection barriers can be converted into active systems by fitting the aluminium DorTek range with a selection of intelligent packages.

Gunnebo's intelligent packages consist of smart control panels located within the doorframes. This way, a range of integrated solutions can be managed and interconnected, such as single passage detection systems, video control and intercoms and electric security locking facilities, all aesthetically embedded into the aluminium doorframes.

Gunnebo's DorTek Plus range is an intelligent door solution that offers a scalable platform, adapting to the most stringent security requirements.

Key features

- Customizable solutions ranging from simple mechanical security doors to interlocking doors integrating detection and identification systems
- Certified products
- Aesthetic design and versatility
- Developed to be assembled with other Gunnebo security solutions, such as the SecurWave intrusion detection system.

Gunnebo difference

1. One complete solution from product choice to service
2. Option to choose the level of security and the solution's deterrent effect
3. Compatibility with any access control system
4. Durable and reliable products designed for intensive use that are rigorously tested in Gunnebo's factories

Application

- Banks
- Industrial plants
- Transport and Logistics: airports, harbour
- Police and military sites
- IT centres
- Government buildings
- Local authorities
- Head offices

DorTek Plus consists of two intelligence upgrade packs available for the MagTek A, DarTek A and BlasTek A ranges.

DorTek

MagTek A
- Aluminium Manual Attack Resistant Doors

DarTek A
- Aluminium Bullet Resistant Doors

BlasTek A
- Aluminium Blast Resistant Doors

DorTek Plus

Pack ID
- Call and display panel
- Keyboard, card or biometric readers
- Electric security locking
- Door operator
- Break glass panel (local)
- Door position contact switch

Pack ID-P
- Call and display panel
- Keybord, card or biometric readers
- Push button for disabled access
- First-entry key
- Door control panel
- Electric security locking
- Door operator
- Emergency unlocking key
- Break glass panel (local or remote)
- Door position contact switch
- UniRitz II single passage detection
- Intercom
- Video control


SOCIETE
GENERALE
BRM

The Gunnebo Security Group is a global leader in security products, services and solutions with an offering covering cash handling, safes and vaults, entrance security and electronic security for banks, retail, CIT, mass transit, public & commercial buildings and industrial & high-risk sites.

Gunnebo – we make your world safer.

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