manusa
Automatic doors

BLAST RESISTANT

AUTOMATIC SLIDING DOORS



榮誌有限公司
SHINE UNION LIMITED

Tel : 852 -2341 8183 Fax : 852-2191 7060
Website : www.shineunion.com.hk Email: info@shineunion.com.hk

manusa
Automatic doors

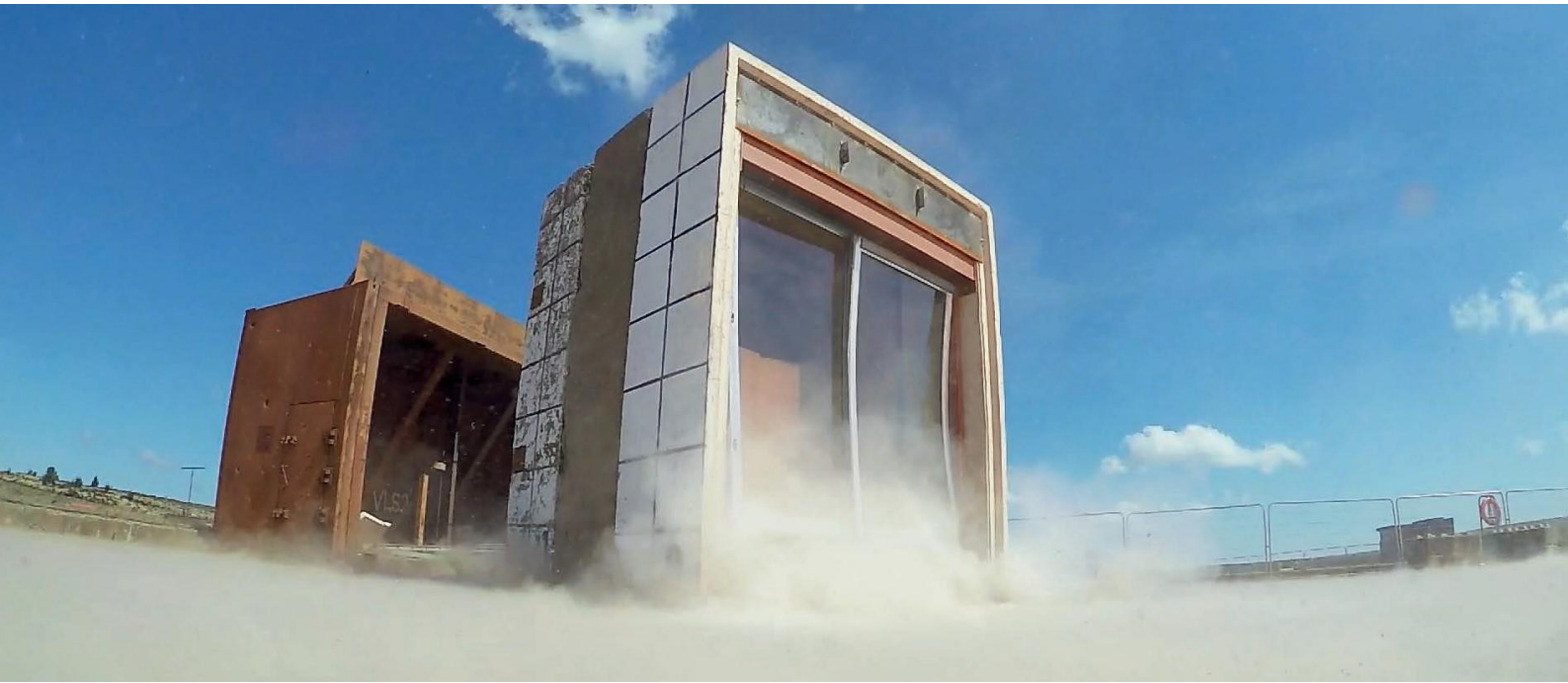
BLAST RESISTANT

AUTOMATIC SLIDING DOORS

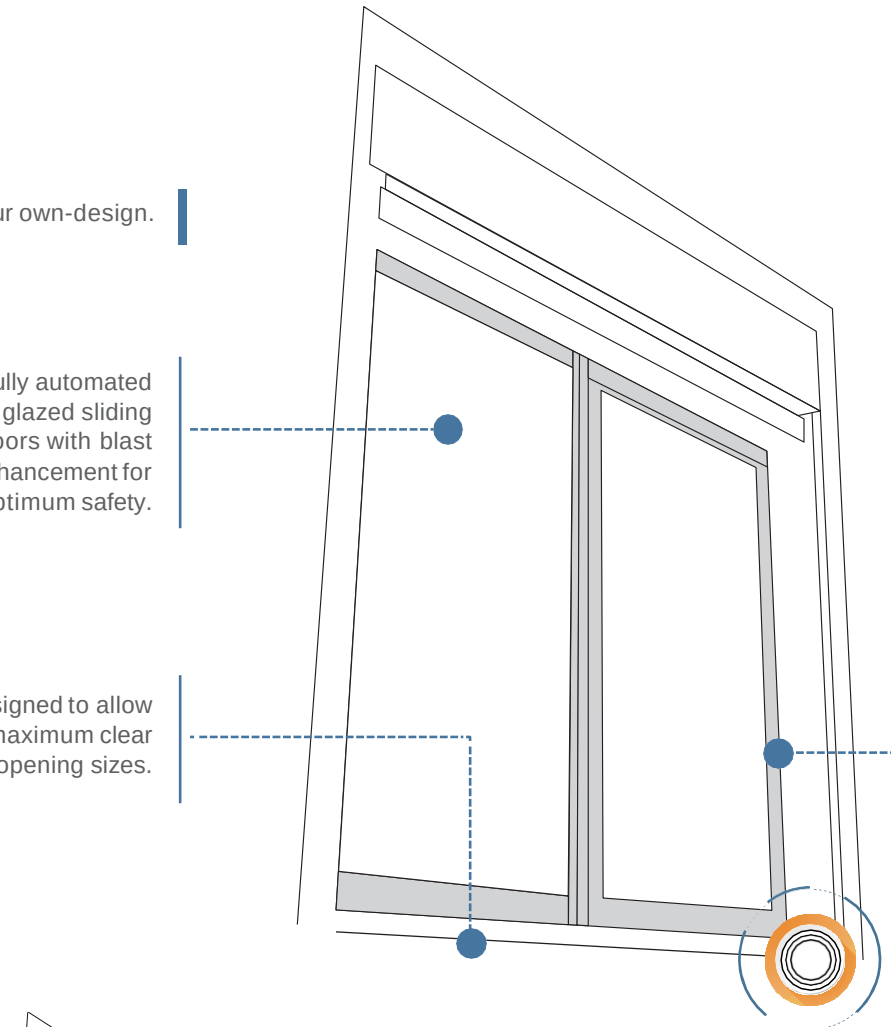
Protect and guarantee the safety of facilities and people is essential. With the continued threat that our society suffers today in many public buildings, automatic doors must be an element able of stand up against any attack.

Our **own-design** and manufactured, fully tested and certified, blast enhanced sliding doors combine the convenience and functionality of fully automated, glazed sliding doors with blast enhancement for **optimum safety.**

The smart, safe and secure blast enhanced doors can be installed to optimise protection at new buildings and existing premises. The doors are designed to be resistant to both intentional and accidental blasts that reduce the significant dangers that can be caused by impacts or damage generated by explosions on the other side of the door.



BLAST RESISTANT SYSTEM



Our own-design.

Fully automated glazed sliding doors with blast enhancement for optimum safety.

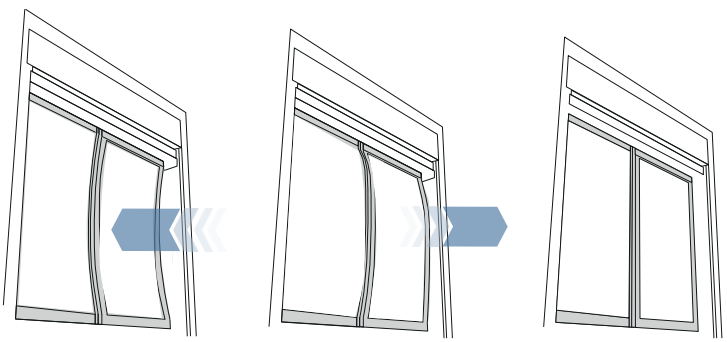
Designed to allow for maximum clear opening sizes.

The aesthetics key.

ISO 16933 EXV25 blast classification.

The structural strength enables the doors to be operated manually after the blast.

Intentional or accidental blasts.



Door reaction to the effect of deflagration.

Result.

SAFE, SECURE,
ESSENTIAL PROTECTION

PROTECTING PEOPLE & PROTECTING PROPERTY

The Manusa blast enhanced doors completely comply with and have been comprehensively tested to the ISO 16933:2007. The tests included trial of explosive detonations of up to 100 kilos and were identified the glass break resistance.

With **low energy requirements** for operational efficiency, the sliding doors meet all other relevant safety requirements. Automatic sensors instantly detect any obstruction to immediately stop and reverse the doors and meet DDA requirements. The doors can be produced to your specification in respect of sizes and colours.

MULTISECTOR

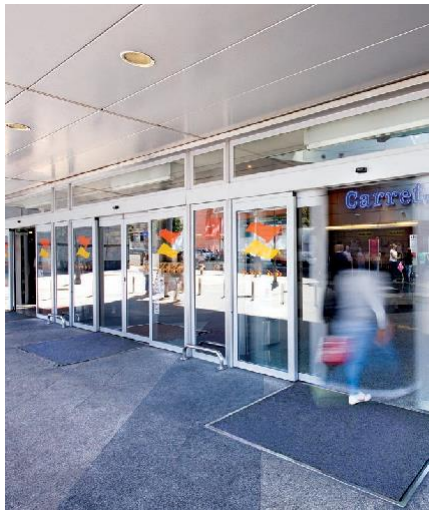
Public Transport Infrastructures



Public Buildings



Shopping Centers



BLAST MITIGATION SYSTEM

AUTOMATED SLIDING DOORS

Thanks to the strict EXV25 classification, we can assure that the Manusa blast resistant slidingdoor complies with the structural resistance required before a detonation.

Our blast enhanced system, utilised as a high-performance entrance, is uniquely designed to allow for maximum clear opening sizes - the largest achievable size being beyond the capacity of any other comparable system on the market to date. Therefore we can boast that ours is the largest sliding door system ever to be tested to the **ISO 16933 EXV25 blast classification.**

Despite the increased weight of the door system due to the reinforcements included in the design, the running efficiency and reliability of the sliding door operator is not hampered, and still performs within its optimal range.

In addition to the obvious performance benefits of our door system, **the aesthetics are also a key benefit** as the intelligently designed enhancements included as part of the design all blend in with the entire door system, with various fixings and components being concealed so to give the impression of a standard door system.
A unique performance attribute of our door system is that following a blast, the structural strength enables the doors to still be operated manually, which in real world-terms would allow for emergency services to gain access, and
the emergency egress of peoples potentially trapped within the building.

ISO 16933:2007 EXV25	REQUIRED	TEST RESULT
Peak Reflected Pressure	80 kPa	105 kPa
Positive Reflected Impulse	380 kPa - ms	457 kPa - ms