



Q-Door manual folding door

Low U-value Saves Energy and Money

Q-Door FX is constructed differently than other doors on the market.

Every detail is designed to make the door as durable, tight, and as insulating as possible, to save heating costs and the environment.

The door panel's shell is formed by rolling together a 0.6 mm thick corrosion-resistant SSAB sheet metal with an end profile made of metal, providing a durable and torsion-resistant structure.

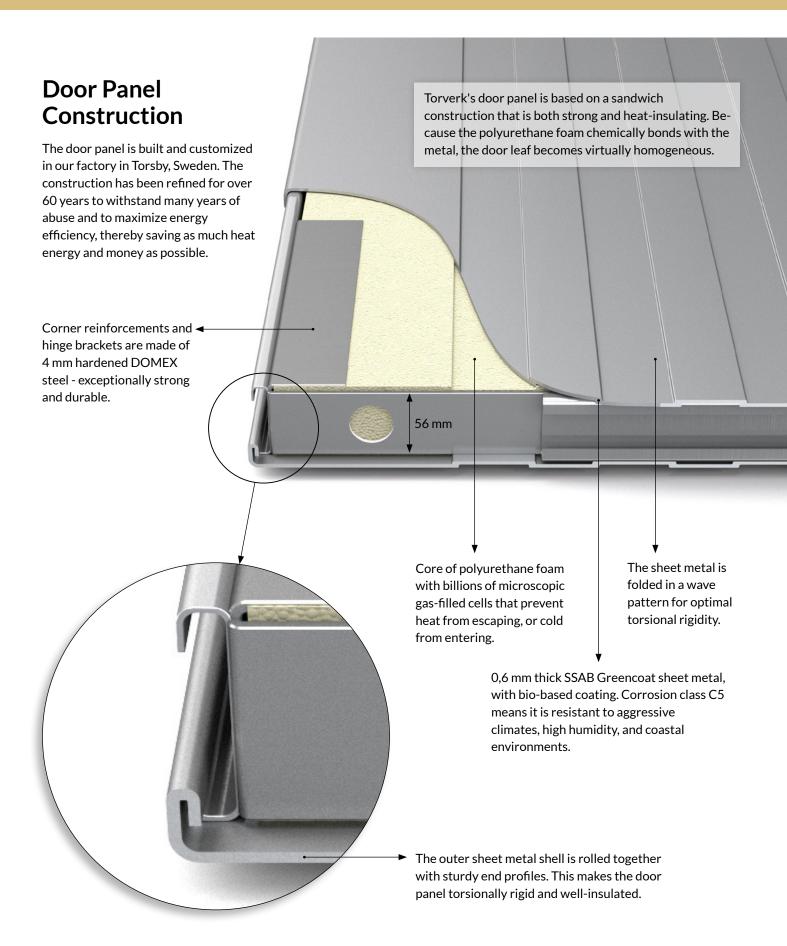
Next, we fill the panel with polyurethane foam under 4,5 bar of pressure. The foam expands, penetrating all cavities and chemically bonding with the sheet metal and metal end profiles. When the foam solidifies, it becomes as hard as a hockey puck and insulates four times better than standard home insulation. Millions of microscopic gas-filled cells prevent heat and cold from penetrating to the other side.

All seals are custom-made from durable EPDM rubber, which stays soft and seals well even in cold climates. Each door is millimeter-adjusted to the door opening during manufacturing.

The result is the market's most well-insulated, tight, and durable standard door. Available in Swedens highest security standard SK3 SSF 1074 and with surface treatment packages for aggressive environments.

TECHNICAL INFORMATION		
	Manual door: 25 m x 6 m	
Door Panel	56 mm thick sandwich construction, corrosion class C5. U-value, best mean: 0,23 w/m²	
Window sizes (max 30% window area)	300 - 600 mm wide 300 - 1200 mm high	
Colors	11 standard colors, but can be painted in any color as an option.	
U-value (Heat transmission EN 12428)	4-section door 5,0 m X 5,0 m: 0,90 w/m ²	
T-value (Air permeability EN 12426)	Manual door: 1,5 (klass 5) Electric door: 0,9 (klass 5)	
Vind load (EN 12424)	Designed for wind loads up to 1459 Pa = klass 5	
Water penetration (EN 12425)	Class 3	







Locking Options

The door comes equipped with an externally mounted padlockable espagnolette on the inside by default (shown on the right in the image). Optionally, you can choose a cylinder-locked espagnolette (SDL) with handles on the inside and/or outside (shown on the left in the image). Another option is a modular lock for three-panel doors with a maximum height of 2.7 meters.



Seals, Fittins & Hinges



To ensure that the seals are hurricane-resistant, we have designed custom profiles using extra-durable EPDM rubber. They remain pliable even in low temperatures and do not shrink over time.



The entire weight of the door is supported by robust fittings and hinges. The upper part of the hinges rests on a hardened steel ball, minimizing friction during opening and closing. As an option you can get hinges that are designed to lift the entire door upon opening, preventing the lower rubber seals from dragging on the ground and wearing out.



Surface Treatment Packages

Saltwater, moisture, and alkaline environments quickly degrade metals. A new door without surface treatment would not withstand many years in a car wash, where chemicals and water are constantly present. To extend the lifespan of your door (and to validate the warranty), we recommend choosing a package tailored to the environment in which the door will be installed.

Applications

STANDARD PACKAGE: Works well when your door is installed in a typical dry environment.

Door fittings and window trims are painted black. Otherwise, similar to a standard door. **DESIGN PACKAGE:**

CAR WASH PACKAGE: Intended for very humid environments.

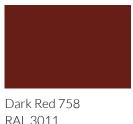
STABLE PACKAGE: Adapted for alkaline environments, such as in animal stables.

RC5-PACKAGE: Resistant to aggressive environments, such as chemical industries, and also suitable for

humid environments like tunnels.

RC5M-PACKAGE: Specially designed for a moist, salty environment, for example, near the sea.

Standard Colors, nearest RAL





Bright Red 410 RAL 3013

Grey-White 022 **RAI 7044**



Dark Gray 454 **RAL 7016**



Bright Blue 561 **RAL 5019**



Dark Blue 524 **RAL 5001**



Nordic Night Black 015 RAL 9004-GL



Antique White 001 **RAL 9002**



Silver Metallic 045 **RAL 9006**



Dark Silver 044 **RAL 9007**

Colors displayed on a computer screen may differ from reality.



Window Options

Large windows let in more light and provide a better working environment. However, keep in mind that the larger the window area in your door, the poorer the insulation, which can increase your energy bill.

Fortunately, all our windows have a thermal break – a clever design that ensures the frames on each side of the window do not come into contact with each other, thus preventing the transfer of cold. So, if you insist on having a lot of windows, our frames are the solution that consumes the least energy.

Standard Sill Height

Sill height = measurement from the bottom of the door frame to the bottom of the window.

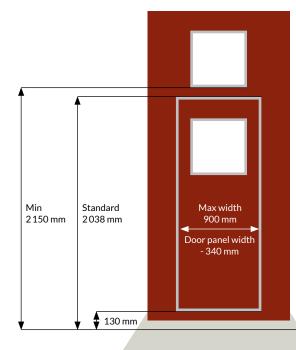
DD, ZD, LD: 1 650 mmDZ, ZZ, LZ: 1 450 mmDL, ZL, LL: 1 350 mmDX, ZX, LX: 750 mm



0	DD 300 x 300 mm
2	DD 300 x 300 mm
3	DZ 300 x 500 mm
4	DX 300 x 1200 mm

5	ZD 500 x 300 mm
6	ZZ 500 x 500 mm
•	ZL 500 x 600 mm
8	ZX 500 x 1 200 mm
	ZM 500 x 850 mm

•	LD 600 x 300 mm
9	LZ 600 x 500 mm
9	LL 600 x 600 mm
1	LX 600 x 1 200 mm



Pass Door

If you have pedestrian traffic through an industrial door, you save time and thermal energy with a pass door, since you don't have to open the entire door when a person needs to pass through.

The pass door is manufactured separately and integrated into the main door. The door can be equipped with various types of locks, door closers, panic bars, and emergency exit hardware.

Additionally, there are optional safety features. Windows for the pedestrian door are available in different sizes and sill heights, featuring a thermal break, just like all our windows. You can also choose to have a window above the pedestrian door.



Legend

W = Open Width

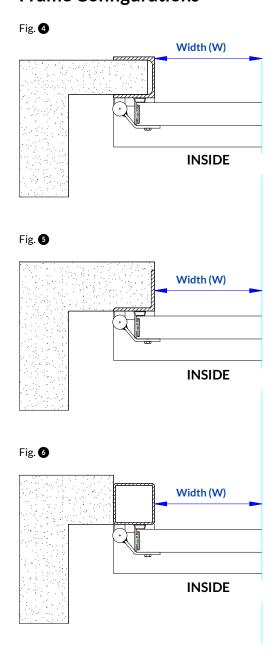
H = Open Height

MW = Minimum Steel Width

MS = Minimum Space

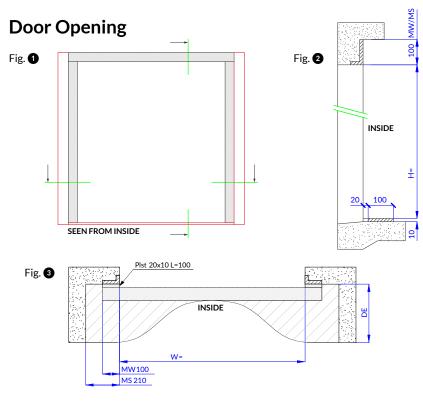
DE = Depth for open door = W/4+150 Width for threshold steel = W+200 Tolerances W- och H-+-5 mm

Frame Configurations

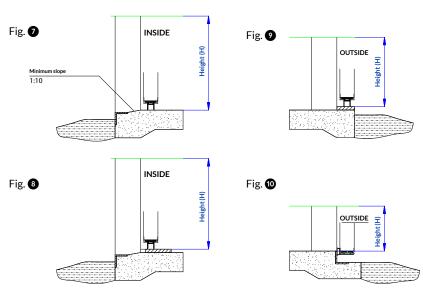


Frame Setting For 4-panel Door

Frame and threshold must be plumb, level, and straight for the door to function properly. A threshold is not required, but we strongly recomend it. The threshold steel forms an edge that prevents rainwater from being pushed in under the door's floor seal and levels out any irregularities in the floor, enhancing sealing capabilities. Neither frame or threshold is included in our standard delivery. But we can provide them if needed.



Threshold Configurations





Burglary Protection to Keep Thieves and Cold Out

Do you have valuable assets on your property that you want to protect, or does your insurance require enhanced shell protection for the coverage to be valid?

Q-Door is available in two burglary protection classified versions, according to the swedish standard SSF1074. The construction is tested and approved by the engineers at RISE (Research Institute of Sweden) and features the same effective insulation as our regular doors.

SSF 1074 SK2 classified version

Can be equipped with windows and a pass door.

SSF 1074 SK3 classified version

Must not have windows, but is certified for a pass door. To conform with the SK3 standard it must be equipped with two padlockable espagnolettes and approved padlocks (padlocks not included).

Both protection classes are available as inward and outward opening doors.

Please note!

Unfortunately there is no international resistance class standard for industrial doors. EN1627, which is the test standard behind RC "resistance class", is only applicable to pedestrian doors. There is unfortunately no EN standard for industrial doors and therefore each country is requried to have a national standard or use another country's standard. In Sweden the standard SSF1074 is used to test industrial doors in SK1, 2 and 3. Torverk ha sold SSF1074 approved industrial doors to companies in Sweden, Norway, Finland and Denmark.

The **SSF1074 SK2** test uses the same tools and time limits as the international resistance class standard **EN1627 RC3**, with the addition of crowbar, hammer and mandrel set.

The **SSF 1045 SK3** standard uses the same tools and time limit as the **EN1627 RC4**. In addition to tools used in EN1627, SSF1074 uses axe, bolt shears, battery powered drill and a smaller sledge hammer.

It is Torverks opinion that SK2 and SK3 is comparable to RC3 and RC4.

Torverks resistance classed doors have been approved and sold in Norway, Finland and Denmark.









