TEMET BLAST DOOR SO-6

Applications
The SO-6 blast doors are designed to stop the advance of blast waves through the passage ways into the protected area of blast hardened Civil Defence and military shelters. The SO-6 blast doors are possible to open and close manually from both sides. The latching device tightens the door plate against the frame so that the maximum clearance between the load bearing surfaces of the door plate and the frame is 2.0 mm. Design of the doors enables opening by disassembly even if the door plate has undergone permanent deformations. The door plate can be dismounted from either side without any special emergency opening devices.

Specification
Manufacturer of SO-6 blast doors is Temet, Helsinki Finland.
The SO-6 doors are fabricated from structural steel with a door plate of solid homogenous steel plate. The door frame is of flush design for easy installations in the reinforced concrete wall, and the door plate / frame assembly has an optimized pattern for transfer of the blast forces into surrounding wall.

Design Criteria
The SO-6 blast doors are made in accordance with specific provisions issued by the Finnish Ministry of Interior. The SO-6 blast doors are approved for use on the basis of structural calculations approved by the Technical Research Centre of Finland / VTT Building Technology, an Independent Testing Authority mandated to perform type inspection for shelter equipment and systems by the Finnish Ministry of Interior.

SO-6 Door Protection Capability
The SO-6 doors provide the highest level of protection against blast effects. Their resistance against multiple long duration blast load ranges from 9.0 bar (900 kPa) up to 18 bar (1800 kPa) peak reflected overpressure. The SO-6 doors are designed to function within the elastic range of the materials used. The door frame design enables uniform distribution of the positive blast load into the surrounding wall. Rebound load is received by the latching system.
The SO-6 doors also resist a mechanical shock transmitting through the installation wall with a rapid change in velocity of 1.5 m/s corresponding to acceleration force of 30 g.
The SO-6 doors are designed to function within the operating temperature range of -30 … +80 ºC.
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Standard SO-6 Blast Resistant Door

Door hinges
Hinges are provided with maintenance free slide bearings or optionally with roller bearings.

Surface treatment
Temet SO-6 doors are surface treated with durable shop primer resisting corrosion during transportation and storage.

Optional accessories for SO-6 Doors
Accessories such as position indicator switches are available.

Other documents related to SO-6 blast door:
- Installation Instructions
- Operation & Maintenance Instructions

Examples of SO-6 Door sizes available
Single wing door sizes with main dimensions in mm:

<table>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>Min. S</th>
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Contact the manufacturer for the availability of different door sizes. Sizes shown in a table are just examples of our wide selection.

All the information contained in this brochure agrees with the information available at the time of its printing and only serves as advance information.