



GAS-TIGHT CONSTRUCTION
CLASS 4 IN ACCORDANCE WITH EN 12207



DOUBLE NEOPRENE SEAL
SEAL IN THE DOOR FRAME AND LEAF



DOUBLE-SKINNED STEEL CONSTRUCTION
3 MM STEEL SHEET + NON-COMBUSTIBLE MINERAL
FIBRE FILLING



GT 1
GAS TIGHT DOOR

data sheet

PRODUCT DATA SHEET
GT 1 Gas Tight door

Door description

The requirements for the GT doors and hatches are similar to the "Technical Regulations for shelter closures"; Typical applications for gas tight and air tight steel hinged door sets are bio-hazard laboratories, pharmaceutical and industrial clean rooms, gas tight enclosures, water treatment facilities, sewage treatment works, government labourites, fumigation suites, research facilities, hospitals, military buildings and universities;

The gas tight door are produced in double skinned steel of 3 mm steel plates, filled with a rigid, non-flammable mineral fibre panel; side hinged swinging type; the door can be operated from both sides of the door; both handles are connected through the door blade by a shaft; maual operation of the door

Standard specifications

Pressure Difference (Pa)	Leakage Rate ltr/m/hr
10	1,5
50	5
100	15
200	35

Description of latching

The Door can be provided with different types of locking mechanism:

- with padlock from outside,
- with cylinder key lock from outside OR inside,
- with cylinder key lock from both sides

Each leaf is hinged with 3 strong hinges, which allow door opening 180°, hinge pins are machined and polished from alloy steel, rotating in sinter bushing

Door frame

The heavy steel frame is constructed from sturdy 3mm specially profiled steel panels and carefully bent and welded with hollow profiles. The frame has got a flange for bolting into the host building structure.

Window optional

Each door can be equipped with a window of glass wired security glass.

Gasket seal

A range of sealing material is used depending on the doors application. Neoprene, EPDM and Viton is used both in an extruded form or as a closed cell sponge to varying densities. Air tight doors will require a closed cell expanded neoprene seal for infrequent use whereas ex-truded neoprene dumbbell section is required on airlock chambers frequent use and durability. Viton is generally used for toxic vapours on military or research facilities.

This door is equipped with a double Neoprene gas seals in both frame and door.

Door finish

Door painted with primer resisting corrosion and final hard wearing paint.

Static material strength

steel plate according:

- EN 10025-2/2004,
- EN 10029 A/N
- EN 10163-2 A/1
- AD-2000 W1
- quality: S235JR+M
- minimum static yield strength 300 N/mm² (Mpa)
- maximum static yield strength 412 N/mm² (Mpa)
- minimum tensile strength 410 N/mm² (Mpa)
- minimum tensile strength 566 N/mm² (Mpa)
- elongation at rupture: 27% - 37%

Model art. no.	Leaf ☐ single ☐ double	Outside dimension		Clear opening		Weight (kg)
		height (mm)	width (mm)	height (mm)	width (mm)	
GT1 - 2025	☒	2200	2640	2000	2500	350
GT1 - 3045	☒	3300	4740	3000	4500	960

* many other different sizes available



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Panzer

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