

# GAS TIGHT DOORS

## Door Description

EEP Ltd gas tight doors are constructed of double skinned carbon steel. The door frames are of profiled steel with a flange for bolting into the host building structure.

Each door is complete with multi-point manually operated latching mechanism and replaceable neoprene gas seals.

Stainless steel handles on the latching mechanism, and heavy duty door closers on active leaf.

Door leaves and frame are finished in a hard wearing paint.

Door threshold typical height is 32mm

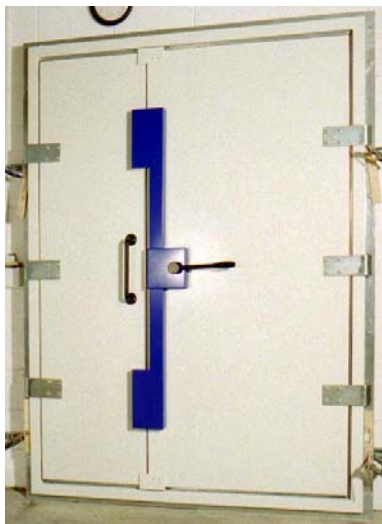
## Standard Specification

Pressure Difference (Pa)	Leakage Rate ltr/m/hr
10 1.5	
50 5	
100 15	
200 35	
500 115	

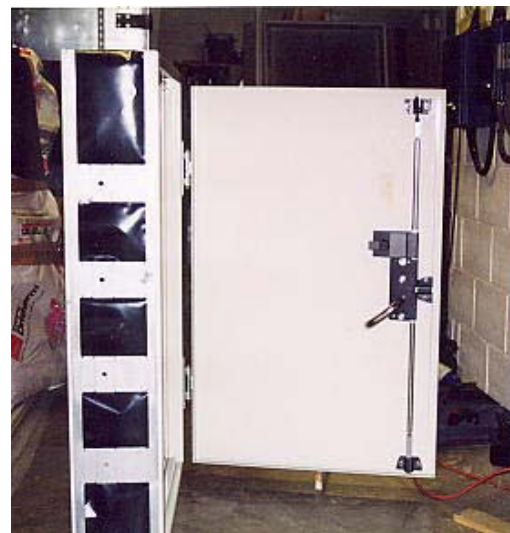


Gas-tight door with pneumatic latch mechanism

Higher levels of performance can be achieved with special designs, Contact EEP for information.



Gas tight double leaf door with 2 point latching.



Small single leaf gas tight door with before installation

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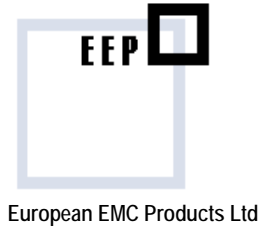
## European EMC Products Limited

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## Procedure for Gas-Tight Doors

Tests are carried out in a specially prepared chamber as defined in British Standard (BS) 7268. The door under test is supplied and mounted into the test chamber frame. The frame is sealed as specified in the BS to ensure no leakage around the frame, which would cause errors in the results.

The air leakage is measured by a calibrated valve mounted on the test room wall.

The internal room is pressurised using a series of air blowers. The pressure is built up to the initial test pressure over a period of 30 minutes. This ensures any obvious leaks due to faulty mounting of the test door are noted early.

Full pressure is held for a period of 1 hour, during which time the total volume of air leaking from the door is measured and a visual check made on the door frame and gasket.

If tests are being carried out at several pressures, there is an interval of 1 hour between tests to allow the pressure to equalise.

## Maintenance Schedule for Gas Tight Doors

The performance of the Gas Tight doors can be seriously impaired by apparently unimportant fixings, modifications or damage.

Periodic inspection and cleaning is required in regard to certain features, as detailed below.

**Maintenance to any part of the doors must be carried out by approved personnel.**

Failure to comply with the following information could result in doors degradation to a point where they may be rendered inoperative.

The nature of this type of door means that it will form a vital part of the building primary shielding, and as such requires carefully planned and executed cleaning and maintenance.

This type of door / frame is of sheet steel construction and incorporates a special 'knife-edge' which compresses the neoprene gas seal. Maintenance includes the following:

- a) Ensuring that the door operates correctly and that the contact edge is in correct alignment with the neoprene gas seal.
- b) Lubrication of hinge pins and latch mechanism with a suitable light mineral oil.
- c) Inspection of knife edge contact and neoprene gasket for any damage.

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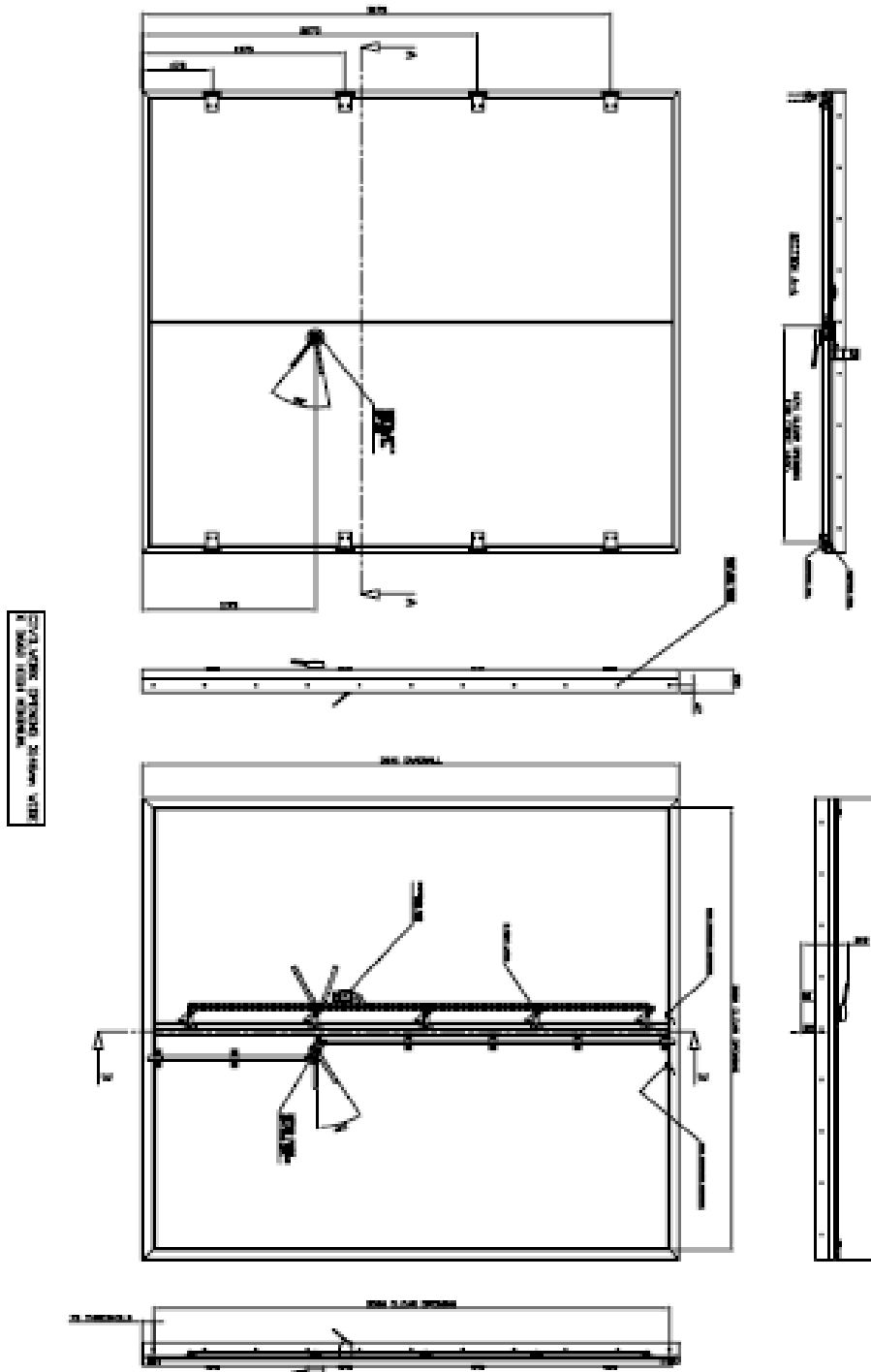
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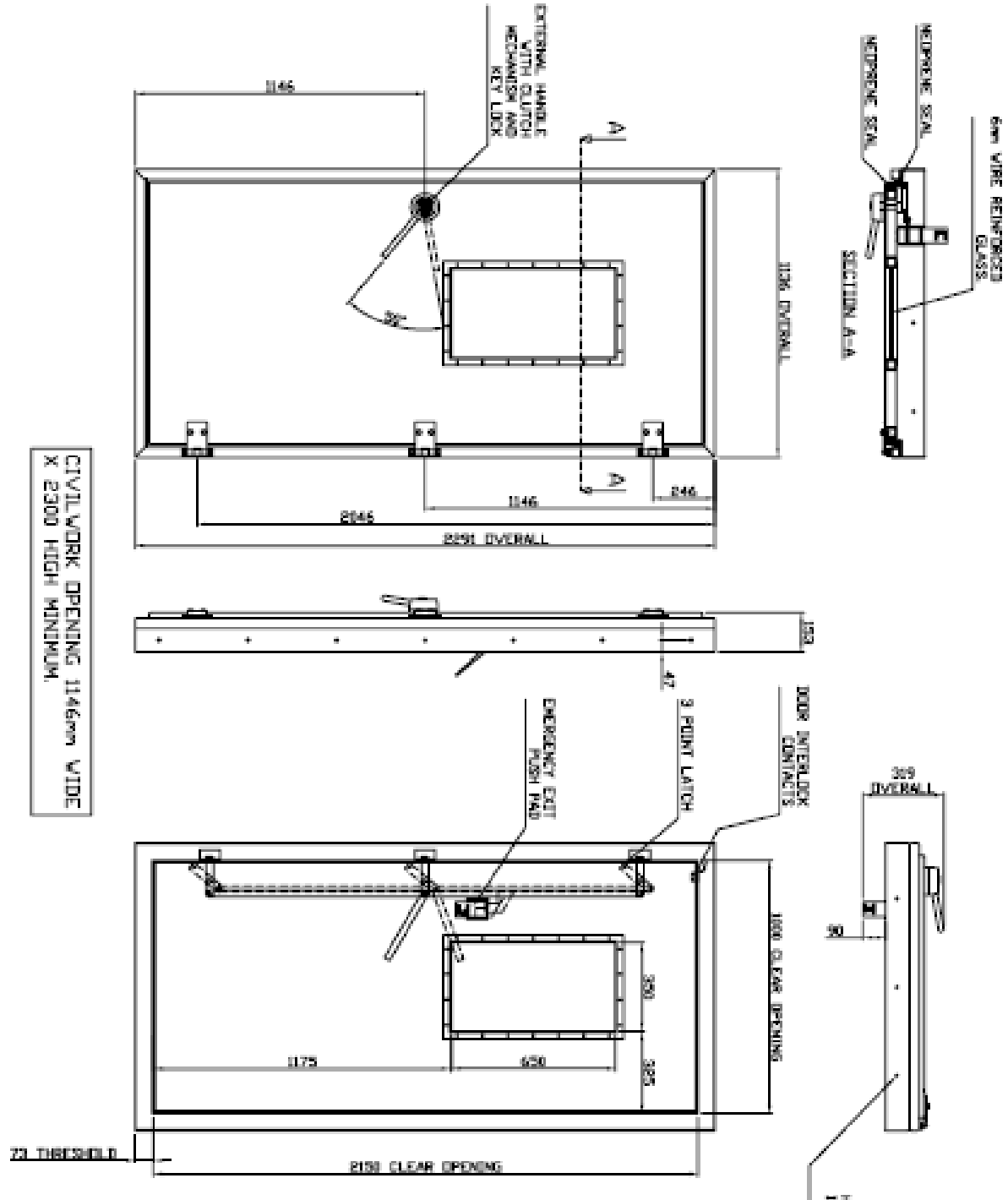


Typical double leaf gas-tight door

# GAS TIGHT DOORS



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Typical single leaf gas-tight door with viewing window

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