DamEasy Flood Barrier Product Specification

Date: February 2018
Rev: 1

Basic Construction:

The barrier basically consists of a panel whose width can be varied mechanically to suit the opening being protected. The extended panel is surrounded by a rubber seal that can be manually inflated to complete the sealing action.

Environment of Application:

Depending on the location of application, the operating environment can vary from a treated urban water leak, through sewerage infected river or lake water, waters with industrial chemical pollution, or even sea water.

Product Energy Sources:

a) Manually generated (geared) leverage, for extending panel width.

b) Manually generated air pressure, to inflate rubber seal.

Description of Operation:

The product basically consists of a centre piece, and two wings (Fig1). The wings slide in and out of the centre piece, allowing the panel's width to be adjusted to fit a range of door openings.

The wings are linked together by a screw mechanism. The movement of the wings is controlled by a ratchet handle.

Direction of movement of the wings is controlled by a reverse button on the ratchet handle.

Sealing of the door opening is maintained by a patented, inflatable rubber tube arrangement, that surrounds the extended frame. When the panel is held in position by the extended wings, the tube is inflated by a manually operated, built-in, air pump. The air system has a built-in air pressure gauge.

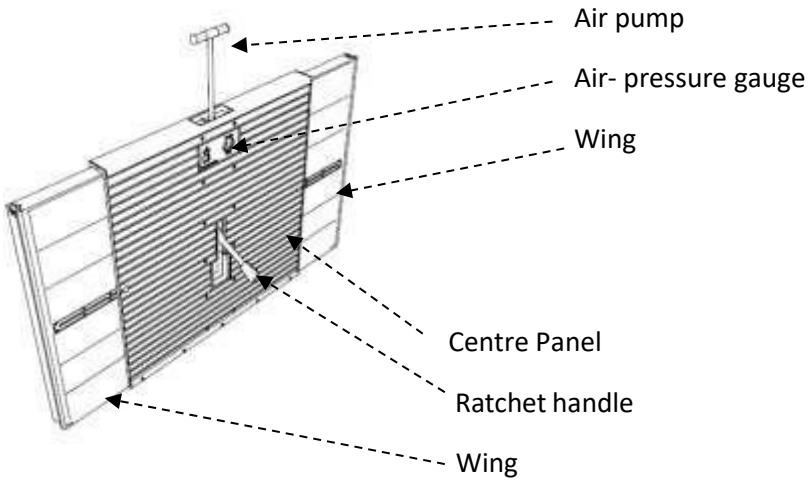

Fig 1. Flood barrier parts

Installation and Use:

There are three basic steps in the installation and use of the product;

a) Putting the barrier in position in the selected doorway.

b) Extending the barriers width, to fix it firmly in the doorway, through operation of the manually operated, geared, mechanism.

c) Inflating the rubber seal by means of a built-in hand operated pump.

Installation is very straightforward. The barrier is placed in the doorway to be protected, with ratchet handle faced to the inside. The wings are extended, by operating the ratchet handle, to enclose the opening. The ratchet handle is then pushed into its storage position.

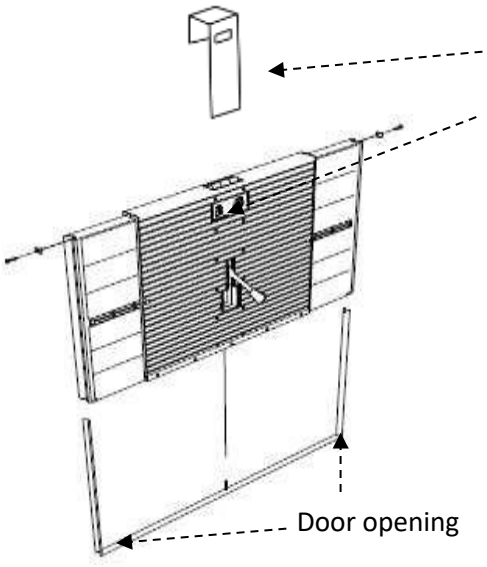

Fig 2. Placing the barrier in position

When the barrier is firmly fixed in place, the rubber tube is inflated to seal the opening. (Fig 2.)

The security cover is put in place, to prevent unauthorised access to the controls. It covers the air pump and ratchet handles, but allows sight of the air-pressure gauge.

3. Decommissioning.

The security cover is removed. The rubber tube is deflated by the deflation button, housed in an alcove beside the air-pressure gauge. Finally, the ratchet handle is reversed, and the wings are retracted to free the barrier from the doorway.

Materials:

Main Body:	ABS2100 – GR10 Glass Fibre Reinforcement
Inner Mouldings:	POM M90-44 Polyacetal
Reinforcement:	Stainless Steel 304
Gear System:	Brass
Compression Seal:	EPDM 40-50 Shore A
Inflatable Seal:	(Patented)
Pneumatic Parts:	Supplied by Festo Germany

Physical Dimensions:

a) Height: 720 mm

b) Width: Adjustable 780 mm to 1,100mm

c) Depth: 60mm

d) Mass: 19.8kg

Certification:

- ✓ CE marked in accordance with the 2006/42/EC The Machinery Directive
- ✓ "Seal of Quality" in "Safety in Flood Protection" tested by independent body TUV Sud and certified by the European Flood Protection Association (EVH).

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