



OPERATING & MAINTENANCE INSTRUCTIONS

PRESSURE RELIEF DAMPER

DESCRIPTION

These ranges of dampers are designed to relieve the build up of pressure when installing a high volume gaseous fire extinguishing system whilst maintaining the fire integrity of the room.

The Puma Pressure Relief Dampers are manufactured to a very high standard of construction. Two hour fire rating tested to BS 476 Part 20. Made from 18 SWG or 16 SWG zintec steel, oilite bearings and stainless steel shafts. Finished in attractive semi-gloss grey, powder coated to RAL 7035. Comes in three standard sizes depending on area of vent, PRD 300, PRD 450, PRD 600 (non standard sizes available on request).

The standard 'complete' Pressure Relief Damper assembly consists of three basic components:

1. Inner Fire Weighted Flap Section - Mounted inside of wall
2. Telescopic wall liner - Three part sleeve extending from 100mm to 300mm (Optional)
3. Outer Cat flap Weather Section - Mounted outside of wall

Optional extra components available are:

4. Anti-Intrusion Security Bars - For higher security measurements the Anti-Intrusion Security Bars option is now available. It can be used with the Outer Cat Flap Section or the Weather Louvre Option. Installation could not be simpler - Fit the Security Bars inside the largest section of the Three Part Telescopic Sleeve, then all is needed is to secure the Security Bar Framework through to the inside of the wall lining by using necessary fixings (by others).

Note: The Security Bars can only be fitted inside the largest section of the 3 Part Telescopic Sleeve.

5. Security Weather Louvre – Aluminium construction, fixed 45° angle blades. If there are any external obstructions or light security issues then the Weather Louvre option is an ideal alternative to the Outer Cat Flap Section. It has special low pressure, extended area construction to maintain the Free Vent Area required.

Note: The Weather Louvre can only be fitted inside the largest section of the 3 Part Telescopic Sleeve.

OPERATION

The weighted flaps on inside section begin opening at pressure build up of the room.

Outside 'Cat Flap' section will open at a minimum pressure of 15 Pa and is designed to hold against wind turbulence and stack effect and also acts as a weather seal.

INSTALLATION

To ascertain builder's wall cutout size, see Puma certified drawing provided. If wall or door thickness exceeds more than 70mm then the 3 Part Telescopic Wall Liner must be used.

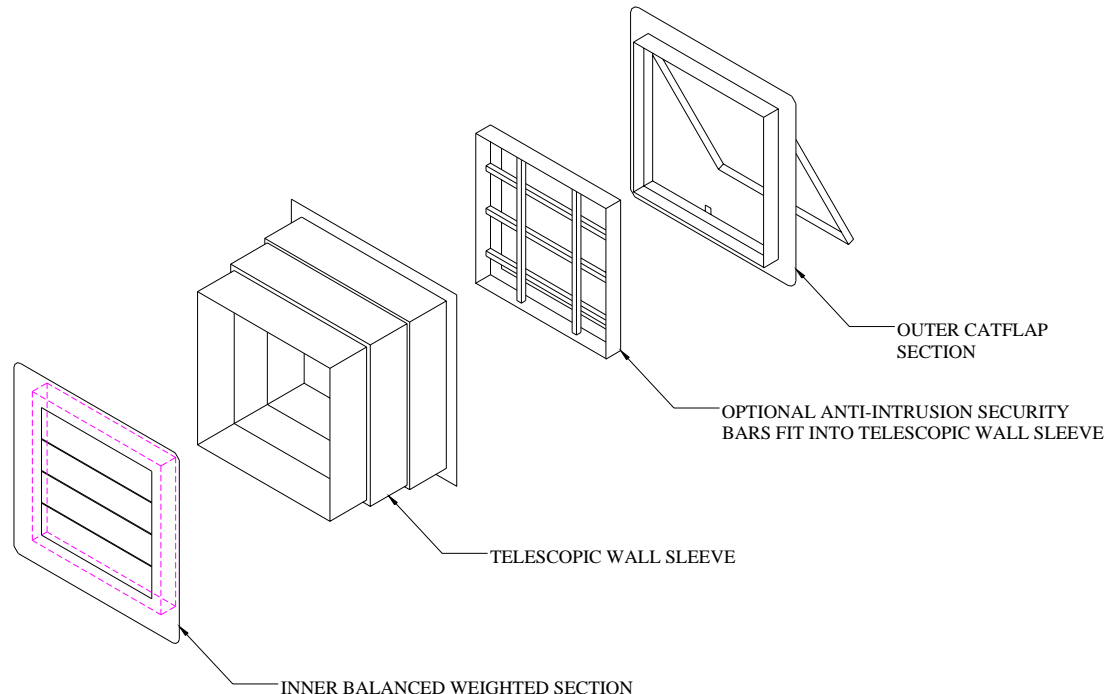
Install telescopic wall liner starting with the **largest** section fitted on the **external** side of building wall. Then fit inside the required number of smaller sections to suit wall thickness.

The Inner Fire Section (with the weighted flaps) locates into Telescopic Wall Liner on internal side (intake room side) of the building wall. Seal the joints using 'fire resistant' mastic and securing to wall using appropriate fixings through holes provided in outer flange.

Optional Anti-Intrusion Security Bars - Fit the Security Bars inside the largest section of the Three Part Telescopic Sleeve, making sure the pre-drilled holes are at the top & bottom. Secure the Security Bar Framework through to the inside of the wall lining by using necessary fixings (by others).

The Outer Cat Flap section (or optional Weather Louvre) is fitted to the external side of building wall (discharge side) locating inside the Telescopic Wall Liner. Seal the flanges using 'fire resistant' mastic and securing to wall using appropriate fixings through holes provided in outer flange (Note: Holes not provided with Weather Louvre).

**NOTE: Ensure operation of cat flap is not obstructed as stated on outer warning label.
(See certified drawing for flap clearance dimension)**



MAINTENANCE

The Puma Pressure Relief damper has only mechanical moving parts and requires very low maintenance. A regular check on free movement of flaps on inner wall section is recommended to ensure full working operation of damper.