



PRF *Pressure Relief Flap*





Introduction

Pressure relief flap is used to relieve pressure from rooms or stairwell. It can be colour coated according to customer's specifications, thus providing aesthetic appearance which blends into the overall building design. An adjustable closing weight (position parallel to the flap) is used to provide adjustment for the room to reach the desired pressure before being relieved.

CONSTRUCTIONS & MATERIALS

- Customizable colour coating
- Single door flap design
- Available in vertical installation
- Damper sizing:
 - Minimum size : 150 x 150 mm
 - Maximum size: 600 x 600 mm

Frame Construction



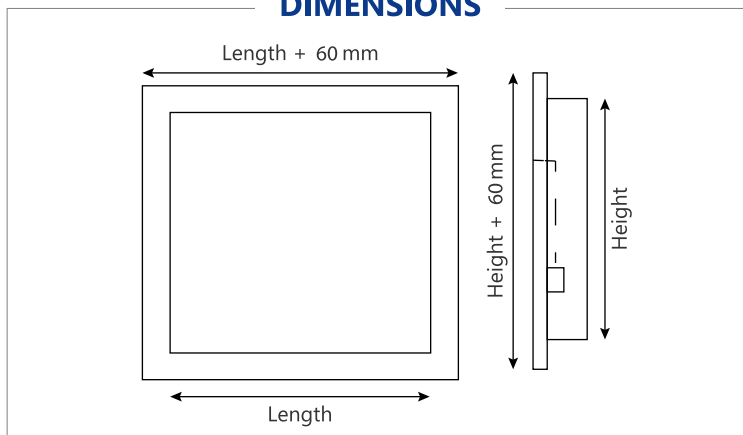
Galvanised Steel

Blade Construction



Galvanised Steel

DIMENSIONS



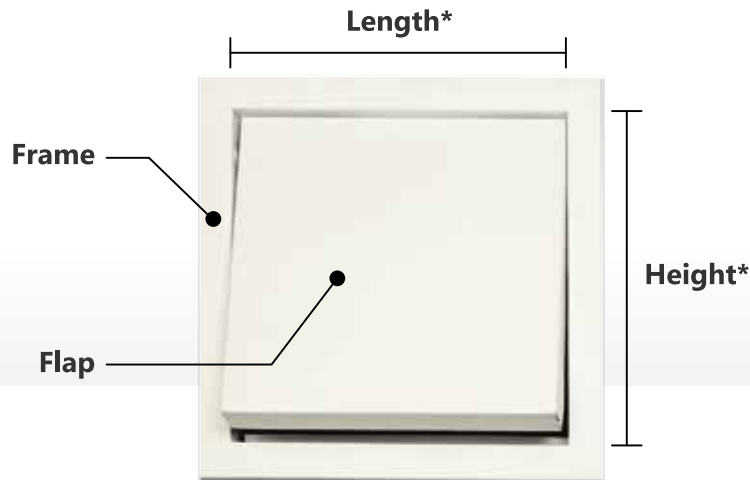
AERODYNAMIC PERFORMANCE

RECOMMENDED FLOW AND SIZING

Air velocity (m/s)	Pressure drop (Pa)
2	40
3	65
4	77
5	87
6	95
7	100
8	108
9	110
10	116

TOTAL PRESSURE DROP

Litres/second Cubic feet per minute	Height										
	150	200	250	300	350	400	450	500	550	600	
Base	150	54/114	72/153	90/191	108/229	126/267	144/305	162/343	180/381	198/419	216/458
	200	72/153	96/203	120/254	144/305	168/356	192/407	216/458	240/508	264/559	288/610
	250	90/191	120/254	150/318	180/381	210/445	240/508	270/572	300/636	330/699	360/763
	300	108/229	144/305	180/381	216/458	252/534	288/610	324/686	360/763	396/839	432/915
	350	126/267	168/356	210/445	252/534	294/623	336/712	378/801	420/890	462/979	504/1068
	400	144/305	192/407	240/508	288/610	336/712	384/814	432/915	480/1017	528/1119	576/1220
	450	162/343	216/458	270/572	324/686	378/801	432/915	486/1030	540/1144	594/1258	648/1373
	500	180/381	240/508	300/636	360/763	420/890	480/1017	540/1144	600/1271	660/1398	720/1525
	550	198/419	264/559	330/699	396/839	462/979	528/1119	594/1258	660/1398	726/1538	792/1678
	600	216/458	288/610	360/763	432/915	504/1068	576/1220	648/1373	720/1525	792/1678	864/1831



* Neck size

PRF TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in galvanized steel. Frame thickness should be in minimum 0.6mm thick, unless otherwise stated.
2. The margin to be in 30mm from the neck height to the edge.
3. Frame height to be in 40mm.

Damper Blade Assembly

1. 0.5mm single skin configuration. The individual blade to be in single V-grooves design. Blade operation to be of Parallel Blade configuration. 6mm galvanized steel full length shaft to be provided for each blade section.
2. Adjustable counter weight to be installed at every single blade for on-site adjustment purpose.
3. Material provided to be galvanized steel, unless otherwise stated.

Linkage Cover & Side Seals

1. 1.0mm pre-formed angles to be welded to the damper casing assembly to provide both blade stop and sealing functions.
2. Material provided to be galvanized steel, unless otherwise stated.








Finishing

1. Finishing should be in powder coated RAL 9010 SG white matt, unless otherwise stated.



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Products Range

- Grilles 
- Diffusers 
- Dampers  ◀
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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