

PRF *Pressure Relief Flap*





Introduction

Prudent Aire Pressure Relief Flap are 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

Surface Finishing

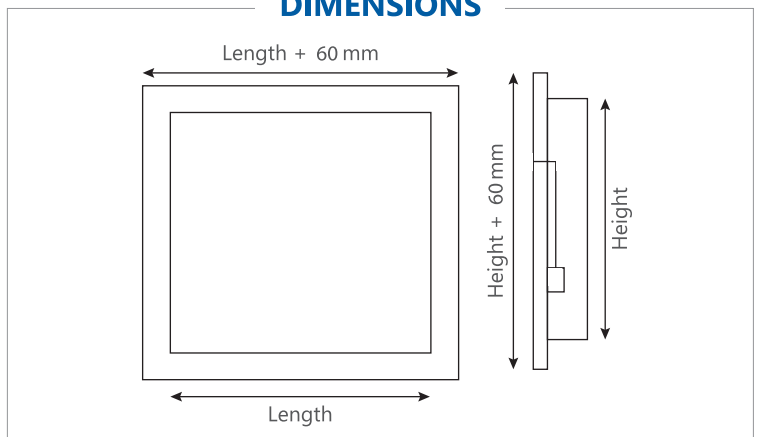


White (Matt)
Customizable
Color



White (Matt)

DIMENSIONS



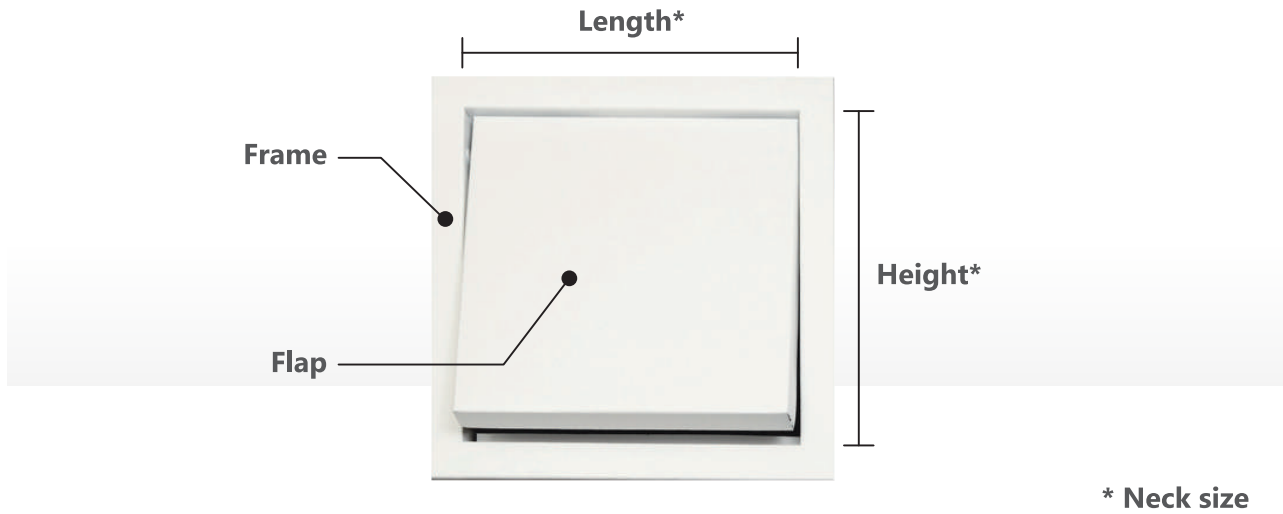
AERODYNAMIC PERFORMANCE

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	72	90	108	126	144	162	180	198	216
	200	114	153	191	229	267	305	343	381	419	458
	250	120	153	186	219	252	285	318	351	384	417
	300	126	159	192	225	258	291	324	357	390	423
	350	132	165	198	231	264	297	330	363	396	429
	400	138	171	204	237	270	303	336	369	402	435
	450	144	177	210	243	276	309	342	375	408	441
	500	150	183	216	249	282	315	348	381	414	447
	550	156	189	222	255	288	321	354	387	420	453
	600	162	195	228	261	294	327	360	393	426	459
	600	458	610	763	915	1068	1220	1373	1525	1678	1831



PRF TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in galvanized steel. Frame thickness should be in minimum 0.8mm 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. White powder coated, oven baked as standard. RAL 9010 SG or HY 1001/A127. Others available upon request.



PRF | Pressure Relief Flap



Products Range

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



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