



Typical Cross Section



The Robertson ARV is designed to automatically provide its maximum exhaust area under fire conditions, whilst providing a fully weathered unit in its normally closed position.

Design Features

- Coefficient of Discharge: As determined by independent tests is a minimum of 0.78. This result is based on tests of the largest ARV unit and were carried out in accordance with international standards.
- Maintenance testing: Regular maintenance testing of all automatic smoke/heat release ventilators is a standard building code requirement. ARV Ventilators incorporate the necessary facilities to enable this testing.
- Remote control systems: Can be provided with electrical or pneumatic remote control systems with zone control if required.
- Base types: Available with a Type A, Type B (to fit a soaker sheet), or Type C (curb fixing base).
- Materials: Can be supplied in a wide range of cladding materials including Versacor coated sheeting.
- ARV vents are designed to meet international building code standards.

Dimensions and Mass:

Unit	Aerodynamic Free Area m ²	Dimensions (mm)							Mass		
		A	B	C	D	E	F	G	Versacor	Zincalume	Aluminium
1210	0.84	1300	1200	1700	1500	310	1100	1000	46	37	25
1216	1.35	1300	1200	1700	2100	310	1700	1600	60	50	32
1222	1.85	1300	1200	1700	2700	310	2300	2200	74	62	39

Smoke/Heat Release Systems

To establish the most effective fire ventilation systems, Robertson in Australia has participated in several research programs, including a full scale Federal Government project in which 111 experiments were conducted in a study coordinated and managed by the CSIRO in an aircraft hangar in Darwin.

In 1978, Robertson was invited to participate in the formulation of the Standards on Smoke/Heat Release Vents, conducted by the Australian Standards Committee. By choice, all products developed by Robertson since the inception of the Standard comply with the requirements of AS2427-1983 and other international standards.

It should be noted that while all Robertson Smoke/Heat Release Ventilators have been designed, manufactured and tested to all current and relevant Australian Standards, these products are constantly reviewed in the light of any pertinent international standards.