

DUCTLAB AUSTRALIA

PERFORMANCE DATA FOR - 220mm x 90mm

Updated as May 25

LOW PROFILE PVC FLAT DUCTING SYSTEM & MORE...



Largest range of Low-Profile PVC Ducting

DUCTLAB AUSTRALIA

AIRVENT AUSTRALIA PTY LTD
ABN 28 635 841 824
Unit 4, 7 Stubbs Street, Auburn NSW 2144
Phone:(02) 8328 1322 | Email: sales@airvent.com.au



Updated as May 25

Largest Range - 220x90 | 300x60 | 310x70 | 350x75 | 500x75

Ductlab's Low Profile PVC FLAT Ducting System:



Efficient. Certified. Expanded.

Ductlab's Low Profile PVC Duct System offers an advanced, space-saving solution for modern ventilation needs. Engineered for environments with limited ceiling space, our system ensures optimal airflow without compromising on quality or compliance.



Key Features & Benefits

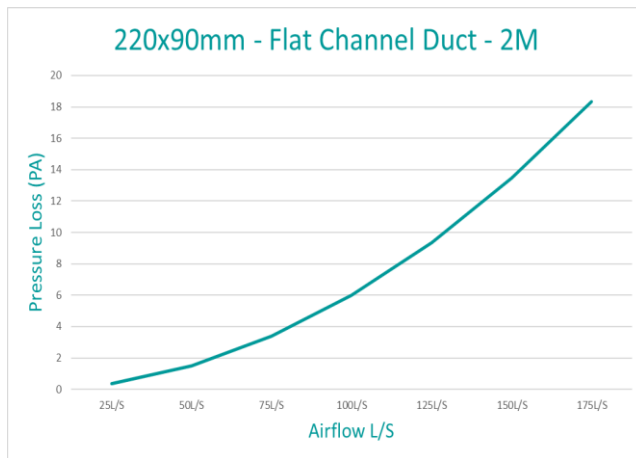
- **Comprehensive Range of Fittings:** Beyond standard offerings, Ductlab provides an extensive selection of fittings, including unique configurations to accommodate diverse installation requirements.
- **Certified Quality:** Our products meet and exceed industry standards, holding certifications equivalent to those of leading competitors, ensuring safety and performance.
- **Space Optimization:** The low-profile design is ideal for high-rise apartments and commercial buildings where ceiling space is at a premium.
- **Durable & Corrosion-Free:** Made from high-quality PVC, our duct system resists corrosion, offering a longer lifespan compared to traditional sheet metal ductwork.
- **Environmentally Conscious:** Manufactured with sustainability in mind, our ducts are made with recycle material & 100% recyclable to contribute to green building certifications.
- **Ease of Installation:** Lightweight components and a user-friendly design reduce installation time and labour costs.
- **Versatile Applications:** Suitable for bathroom, laundry, and rangehood ventilation systems, efficiently handling airflow rates up to 180 L/s.

Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

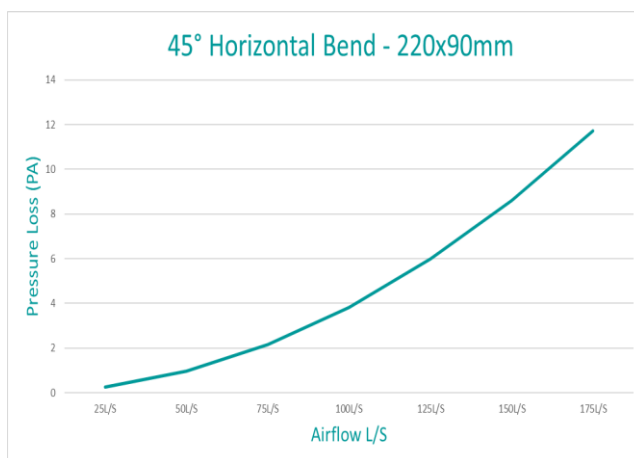
Flat Channel Duct - 2M - Non Centre Bar

Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
220x90mm Channel Duct-2M	0.37	1.5	3.37	5.99	9.36	13.48	18.35



Horizontal 45° Bend

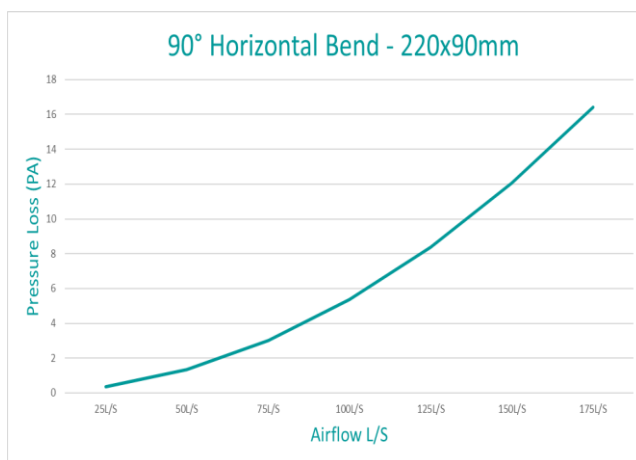
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
45° Horizontal Bend	0.24	0.96	2.15	3.83	5.98	8.61	11.72



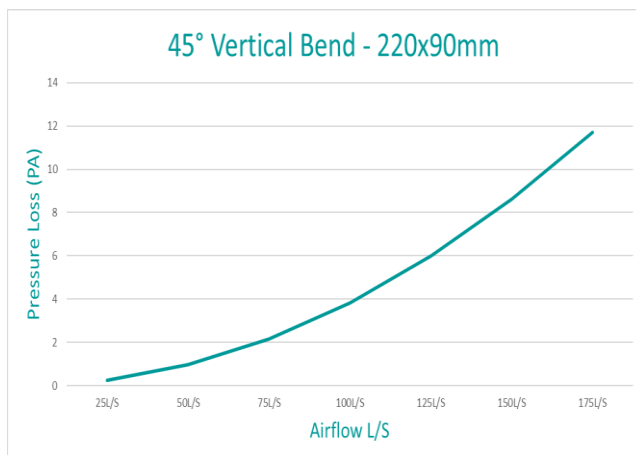
Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

Horizontal 90° Bend							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
90° Horizontal Bend	0.34	1.34	3.01	5.36	8.37	12.05	16.41



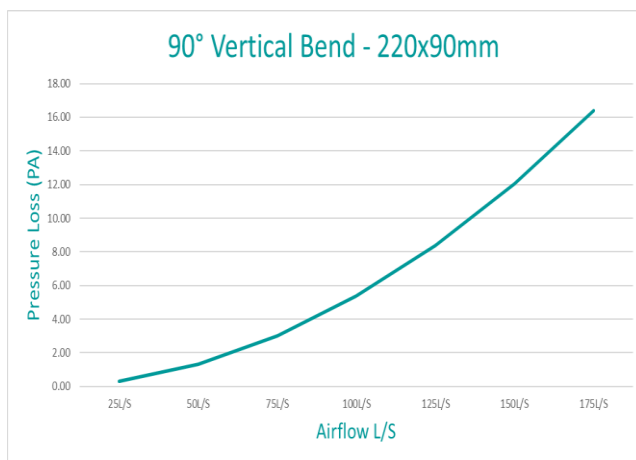
45° Vertical Bend							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
45° Vertical Bend	0.24	0.96	2.15	3.83	5.98	8.61	11.72



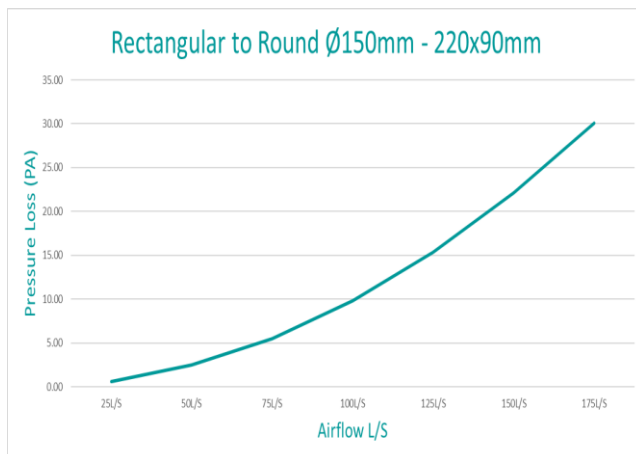
Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

90° Vertical Bend							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
90° Vertical Bend	0.33	1.34	3.01	5.36	8.37	12.05	16.40



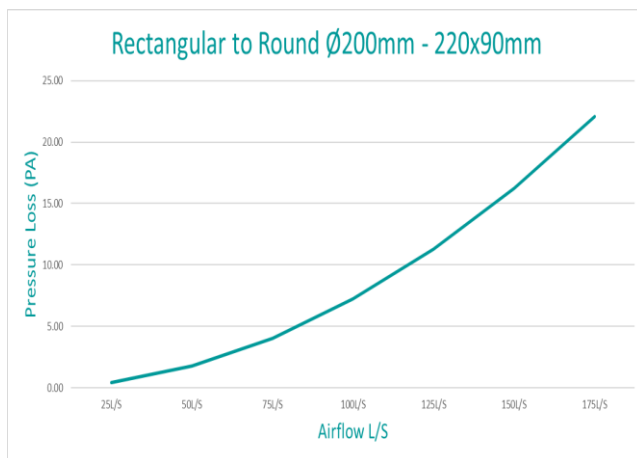
Rectangular to Round Adapter Ø150mm							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
Rectangular to Round Adapter Ø150mm	0.61	2.46	5.53	9.83	15.36	22.12	30.11



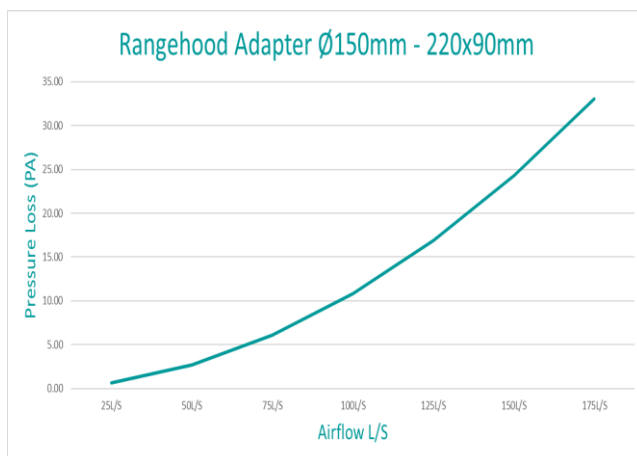
Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

Rectangular to Round Adapter Ø200mm							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
Rectangular to Round Adapter Ø200mm	0.45	1.80	4.05	7.21	11.26	16.21	22.07



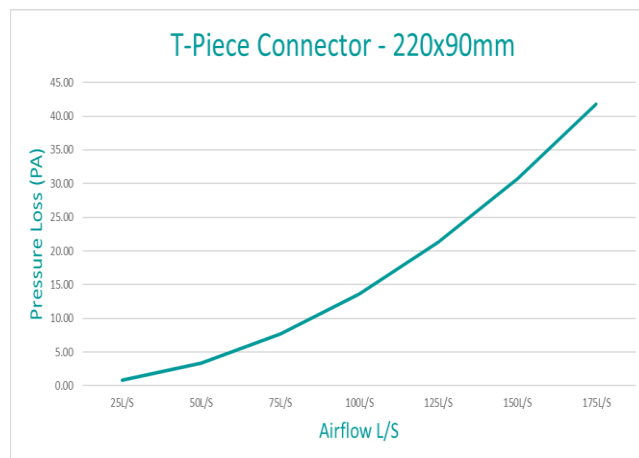
Rangehood Adapter Ø150mm							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
Rangehood Adapter Ø150mm	0.67	2.70	6.07	10.79	16.87	24.29	33.06



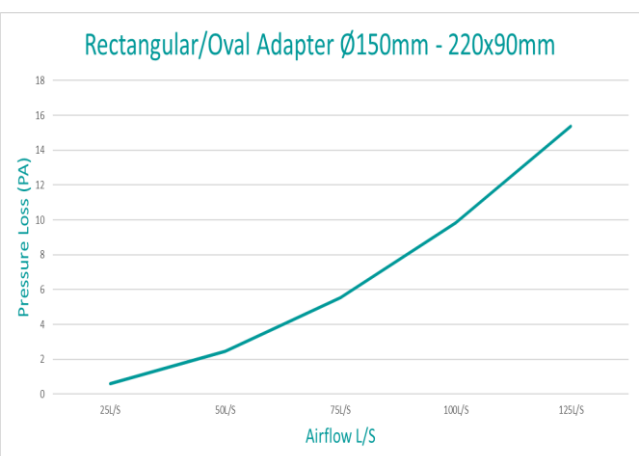
Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

T-Piece Connector							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
T-Piece Connector	0.85	3.41	7.67	13.64	21.32	30.70	41.78



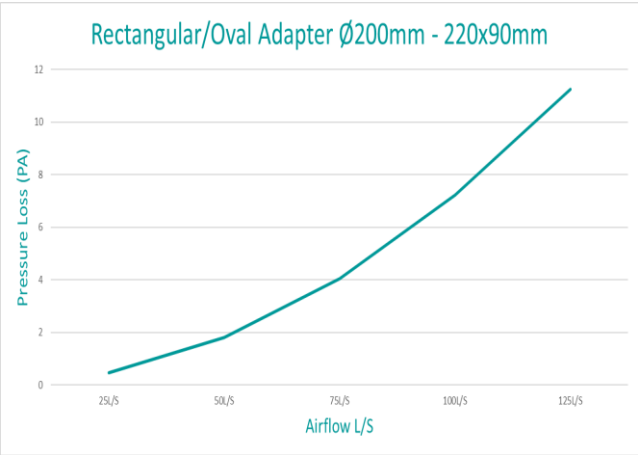
Rectangular/Oval Adapter Ø150mm							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
Rectangular/Oval Adapter Ø150mm	0.61	2.46	5.53	9.83	15.36	22.12	30.11



Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

PERFORMANCE DATA - 220mmx90mm

Rectangular/Oval Adapter Ø200mm							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
Rectangular/Oval Adapter Ø200mm	0.45	1.8	4.05	7.21	11.26	16.21	22.07

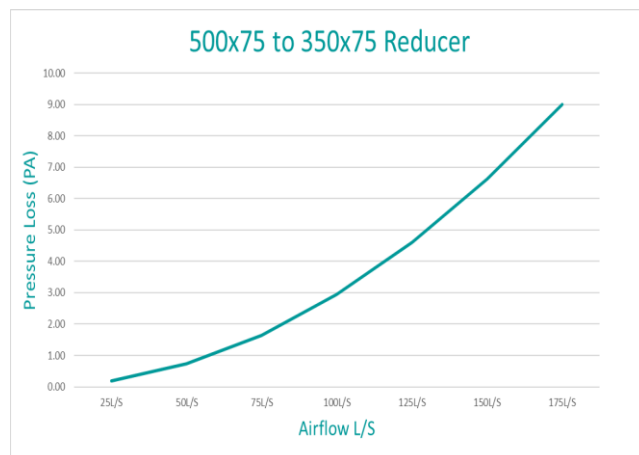
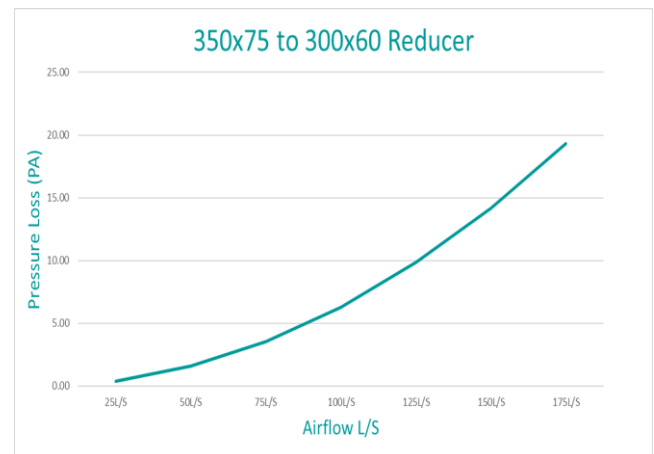
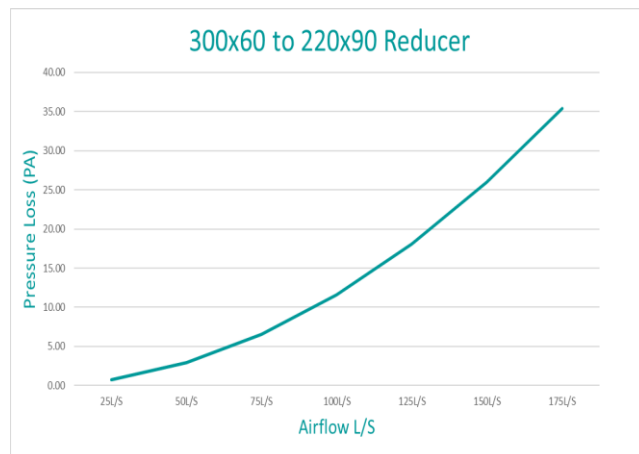


Pressure drop values are calculated using standard air conditions ($\rho = 1. \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.



Duct Reducers - RDC

Duct Reducers							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
300x60 to 220x90 Reducer	0.72	2.89	6.50	11.55	18.05	26.00	35.39
350x75 to 300x60 Reducer	0.39	1.58	3.55	6.30	9.85	14.18	19.30
500x75 to 350x75 Reducer	0.18	0.74	1.65	2.94	4.60	6.62	9.01

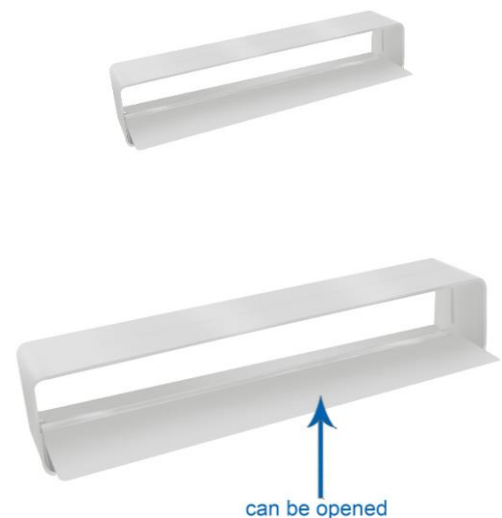
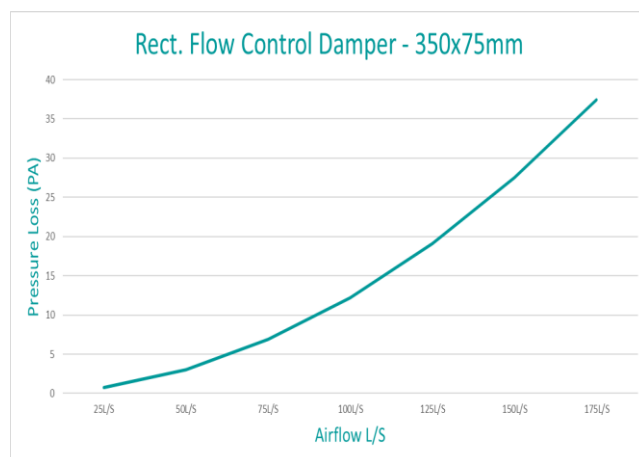
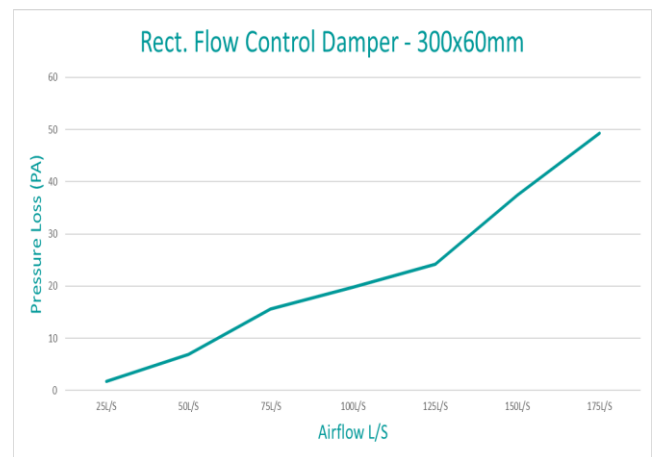
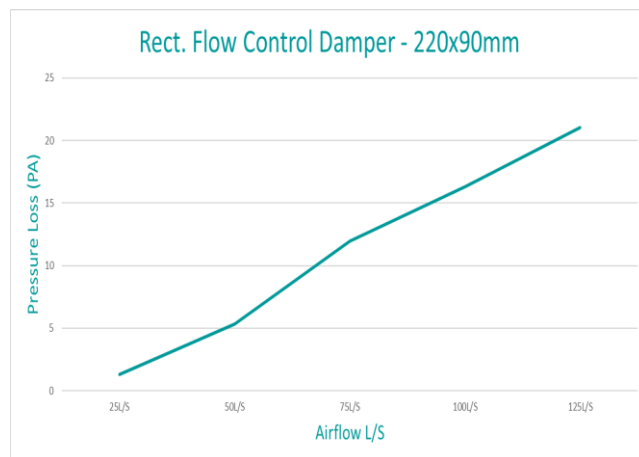


Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.



Rectangular Flow Control Damper

Rect. Flow Control Damper							
Product	25L/S	50L/S	75L/S	100L/S	125L/S	150L/S	175L/S
220x90 Flow Control Damper	1.33	5.32	11.98	16.29	21.04	32.43	38.66
300x60 Flow Control Damper	1.74	6.94	15.63	19.78	24.16	37.48	49.33
350x75 Flow Control Damper	0.76	3.06	6.88	12.23	19.11	27.52	37.46



For the full range of Ductlab's products, please visit www.ductlab.com.au

Pressure drop values are calculated using standard air conditions ($\rho = 1.2 \text{ kg/m}^3$) and industry reference K-factors. "Total pressure drop" includes 2 m duct friction ($f = 0.025$). "Fitting-only" values represent losses from the component only. Airflow range: 25–175 L/s.

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : DuctLab Australia
PO Box: 8282
Baulkham Hills NSW 2153

Test Number : 18-006372
Issue Date : 22/11/2018
Print Date : 13/08/2019

Sample Description Clients Ref : "PVC Ducting"
Rigid duct panels
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx: 3.5kg/m2
Nominal Thickness : Approx: 1.9mm

AS/NZS 1530.3-1999

**Methods for Fire Tests on Building Materials, Components and Structures
Part 3: Simultaneous Determination of Ignitability,
Flame Propagation, Heat Release and Smoke Release**

Face tested:

Face

Date tested:

21/11/2018

Standard Error

Mean

Ignition time

Nil

Nil min

Flame propagation time

Nil

Nil sec

Heat release integral

Nil

Nil kJ/m²

Smoke release, log d

0.0323

-1.2553

Optical density, d

0.0563 / metre

Number of specimens ignited:

0

Number of specimens tested:

6

Regulatory Indices:

Ignitability Index

0 Range 0-20

Spread of Flame Index

0 Range 0-10

Heat Evolved Index

0 Range 0-10

Smoke Developed Index

3 Range 0-10

175651

31787

Page 1 of 2

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025 - Testing

- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356

Samples and their identifying descriptions have been provided by the client unless otherwise stated, AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

0204/11/06

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR



AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : DuctLab Australia
PO Box: 8282
Baulkham Hills NSW 2153

Test Number : 18-006372
Issue Date : 22/11/2018
Print Date : 13/08/2019

These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions and the assembly clamped in four places.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

175651

31787

Page 2 of 2

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025 - Testing

- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356

Samples and their identifying descriptions have been provided by the client unless otherwise stated, AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.



APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Ductlab Australia
PO Box 8282
Baulkham Hills NSW 2153

Test Number : 19-001039
Issue Date : 12/04/2019
Print Date : 21/01/2022

Replacement of Report dated :13/08/2019

Sample Description Clients Ref : "PVC Ducting"
Rigid Ducting
Nominal Mass per Unit Area/Density : Approx 3.5kg/m2
Nominal Thickness : Approx 1.9mm

UL 181.11-2013

Burning Test - Air Duct

Date of Testing	11/04/2019		
Sample Tested	Assembly		
External	Vertical	45 deg	Horizontal
1st after flame time	0	0	0 sec
1st after glow time	0	0	0 sec
2nd after flame time	0	0	0 sec
2nd after glow time	0	0	0 sec
Did flaming or glowing travel full length of specimen ?	No	No	No sec
Did flaming droplets ignite cotton ?	No	No	No
Internal	Vertical	45 deg	Horizontal
1st after flame time	0	0	0 sec
1st after glow time	0	0	0 sec
2nd after flame time	0	0	0 sec
2nd after glow time	0	0	0 sec
Did flaming or glowing travel full length of specimen ?	No	No	No

259614

34399

Page 1 of 2



Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.

Fiona McDonald

APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc (Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Ductlab Australia
PO Box 8282
Baulkham Hills NSW 2153

Test Number : 19-001039
Issue Date : 12/04/2019
Print Date : 21/01/2022

Replacement of Report dated :13/08/2019

Requirement: Duration of flaming or glowing of any sample after withdrawal of the test flame is not to exceed 60 seconds, flaming or glowing is not to reveal the full length of the sample and flaming particles dripped from the exterior surface of the sample during the horizontal and 45degree exterior exposures are not to ignite the surgical cotton.

Complies

Compliance to AS4254.2-2012, Clause 1.8 and 2.1.2

Complies

259614

34399

Page 2 of 2

© Australian Wool Testing Authority Ltd
Copyright - All Rights Reserved



Accredited for compliance with ISO/IEC 17025 - Testing

Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.



Fiona McDonald
APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc (Hons)
MANAGING DIRECTOR

Pro-Switch Pty Ltd
CERTIFICATE of VERIFICATION
Best Environmental Practice for PVC

Airvent Australia Pty Ltd

Trading as Ductlab Australia Pty Ltd

ABN: 40 645 147 584

Unit 4, 7 Stubbs Street Auburn NSW 2144 AUSTRALIA

Pro-Switch Pty Ltd confirms that CLIENT has been assessed and found to comply with the Vinyl Council of Australia (VCA) Best Environmental Practice PVC Guidelines v2.0 (BEP 2.0). This includes meeting the criteria and verification evidence requirements for best practice PVC manufacturing, in line with the Green Star PVC Credit (10 May 2011) and the Auditor Verification Guidance – Issue 2.0 (20 November 2013). Airvent Australia Pty Ltd agrees to maintain compliance with BEP v2.0 as published by the VCA (www.vinyl.org.au). Any changes impacting compliance will be communicated to Pro-Switch for review of certificate validity.

The certificate holder is responsible for the preparation and presentation of information about continuing compliance with the requirements throughout the relevant period, in accordance with Compliance Pathway number 2 Manufacturer's Declaration, as established within the Auditor Verification process.

An audit of the Finished Product Manufacturer was conducted on 23/06/2025 utilising the Green Star Credit-Auditor Verification Guidance of the product types listed below.

Airvent Australia Pty Ltd has been found to specifically comply with the following requirements:-

- Manufacture of PVC Resin as supplied to Airvent Australia Pty Ltd
- Manufacture and End of Life Management of PVC Product
- Use of PVC Recyclate in PVC products

Optional Credits

- ☒ (1) Responsible Sourcing Policy ☐ (3) Modern Slavery Statement ☐ (5) Transition to Renewable Energy
☒ (2) Quality Management System ☐ (4) Life Cycle Thinking ☐ (6) Packaging Waste

Manufactured in Accordance with	PVC Application Type	Product Description	Brand
AS/NZS 1254 AS/NZS 1260 AS/NZS 1477 AS/NZS 4441 AS/NZS 4765 AS/NZS 2053.2 AS/NZS 2053.6	Finished Product Manufacturer	Low-profile PVC ducting (pipes and fittings)	Ductlab

Issue Date: 4th August 2025

Initial Issue Date: 21st July 2025

Expiry Date: 21st July 2028



Simon Clarke
General Manager

Certificate No.: 4094



Pro Switch Pty Ltd is a JAS-ANZ accredited Conformity Assessment Body www.jas-anz.org/register

ABN 37 121 022 366

Phone: +61 448 235 770

Certificate Number: 4094

PO Box 3082

Email: support@pro-switch.com.au

Issue Date: 04/08/2025

Norman Park QLD 4170 Australia

www.pro-switch.com.au

Revision: CR00a



Professional Scientific Solutions

Emission Test Certificate

Thursday 11th July 2019

Supplier: Ductlab Australia (PO Box 23468, Docklands, VIC, Australia, 3012)

Sample Description: PVC Ducting for Ventilation

Date Tested: July 2019 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: ASTM D5116-2017 "Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products".

Emission Data (24 hrs):

Green Building Council of Australia Green Star Design & As Built v1.1 - 13.1.2B & 13.2 Green Star Interiors V1.1 - 12.1.2B	PVC Ducting for Ventilation
Total Volatile Organic Compound Emission Rate Limit: $\leq 0.500 \text{ mg/m}^2/\text{hr}$	Total Volatile Organic Compound Emission Rate: $0.005 \text{ mg/m}^2/\text{hr}$

Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ
ACA, AIRAH, FMA
Managing Director and Principal Consultant

Nick Joy
BSc(Hons)
Consultant

Tuan Duong
B.Eng. (Chemical)
Consultant

V1907010

DUCTLAB AUSTRALIA

an Airvent Australia Company