

# 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 :** SRC International Pty Ltd  
Level 19, 10 Eagle Street  
Brisbane QLD 4000

**Test Number :** 22-004577  
**Issue Date :** 29/11/2022  
**Print Date :** 5/12/2022

**Sample Description** Clients Ref : "Ductplus" Ningbo Sino-Resource Imp&Exp Co.,Ltd  
300mm Flexible Insulated duct  
Colour : Silver  
End Use : Duct  
Nominal Composition : Outer: Black glue metalised ALU Inner: 1 Ply black glue metalised ALU/Black glue/ 1 ply PET Insulation Polyester



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Accredited for compliance with ISO/IEC 17025 - Testing  
Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY

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

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**Print Date :** 5/12/2022

UL 181.11-2013

### Burning Test - Air Duct

Date of Testing	28/11/2022		
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
Did flaming droplets ignite cotton ?	N/A	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

Compliance to AS 4254.1-2012 Clause 2.4.3

Complies

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

Note: Test carried out as modified by AS 4254.1-2012.

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## TEST REPORT

**Client :** SRC International Pty Ltd  
Level 19, 10 Eagle Street  
Brisbane QLD 4000

**Test Number :** 22-005008  
**Issue Date :** 13/01/2023  
**Print Date :** 1/02/2023

**Sample Description** Clients Ref : "Ductplus"  
300mm flexible insulated duct  
Colour : Silver  
End Use : Duct  
Nominal Composition : Outer: Black glue metalised ALU Inner: 1 ply black glue metalised ALU/Black glue/ 1 ply PET Insulation: Polyester



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**Issue Date :** 13/01/2023  
**Print Date :** 1/02/2023

UL 181.14-2013

### Temperature Test - Air Duct

Date of Testing	13/01/2023
Section 14.2	Low Temperature Test
Sample Tested	Composite Assembly Tested.
Exposure	Saturated water vapour atmosphere for 48 hours then at -10degC±2 for 24 hours
Observations made during visual examination	No damage observed
Number of Specimens tested	3
Section 14.3	High Temperature Test
Sample Tested	Composite Assembly Tested
Exposure	80°C for 7 days
Observations made during visual examination	No damage observed
Number of Specimens tested	2
Compliance to AS/NZS 4254.1-2012 Clause 2.4.2(b)	Complies

Note: Test carried out as modified by AS 4254.1-2012.

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**Test Number :** 22-005008  
**Issue Date :** 13/01/2023  
**Print Date :** 1/02/2023

### UL 181.15-2013

#### Puncture Test - Air Duct

Date of Testing 13/01/2023  
Sample Tested Composite Assembly Tested  
Diameter of Duct Tested 300 mm  
Did the plunger completely penetrate through the wall ?  
As received Nil  
After high temperature exposure Nil  
Compliance to AS/NZS 4254.1-2012 Clause 2.4.2(c) Complies

### UL 181.16-2013

#### Static Load Test - Air Duct

Date of Testing 13/01/2023  
Sample Tested Composite Assembly Tested  
Diameter of Duct Tested 300 mm  
Weight of Duct Tested 3.2 Kg  
Weight Used to Load Specimen 8.0 Kg  
Spacing for Supports 1500 mm  
Observations made during visual examination : 2:00PM 11/01/23  
Compliance to AS/NZS 4254.1-2012 Clause 2.4.2(d) Complies  
Load applied for 24 hours

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**Issue Date :** 13/01/2023  
**Print Date :** 1/02/2023

### UL 181.17-2013

#### Impact Test - Air Duct

Date of Testing 13/01/2023  
Sample Tested Core Tested  
Diameter of Duct Tested 300 mm

Specimen	% Reduction in Cross-Sectional Area
1	4.5 %
2	3.3 %
3	3.4 %
Mean	3.7 %

Observations Nil

Compliance to AS/NZS 4254.1-2012 Clause 2.4.2(e) Complies

### UL 181-19-2013

#### Pressure Test - Air Duct

Date of Testing 13/01/2023  
Sample Tested Core Tested  
Exposure 1000Pa over 1 hour

Observations made during visual examination Nil

Compliance to AS/NZS 4254.1-2012 Clause 2.4.2(f) Complies

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**Print Date :** 1/02/2023

### UL 181-20-2013

#### Collapse Test - Air Duct

Date of Testing 13/01/2023

Sample Tested	Core Tested
Exposure	200Pa over 1 hour
Reduction in Cross-Sectional area during Test	1.7 %

Observations made during visual examination Nil

Compliance to ASNZS 4254.1-2012  
Clause 2.4.2(g) Complies

### UL 181.21-2013

#### Tension Test - Air Duct

Date of Testing 13/01/2023

Sample Tested	Core Tested
Weight Applied	11.3kg for 24 hours

Observations made during visual examination Nil

Compliance to ASNZS 4254.1-2012  
Clause 2.4.2(h) Complies

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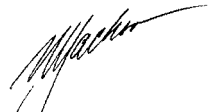


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