

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

Test Number : 17-007360

Issue Date : 24/01/2018

Print Date : 24/01/2018

Order Number : 4616

Sample Description Clients Ref : "Industry Flex and Premium Flex/Acoustic Duct"
300mm diam R1.0 Insulated Flexible duct, metalised inner core, metalised outer sleeve

UL 181.14-2013

Temperature Test - Air Duct

Section 14.2	Low Temperature Test
Sample Tested	Composite Assembly
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
Exposure	80°C for 7 days
Observations made during visual examination	Damage Observed
Number of Specimens tested	2
Compliance to ASNZS 4254.1-2012 Clause 2.4.2(b)	Complies

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

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Page 1 of 4

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- Chemical Testing
- Mechanical Testing
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: Accreditation No. 983
: Accreditation No. 985
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APPROVED SIGNATORY

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

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UL 181.15-2013

Puncture Test - Air Duct

Sample Tested Core

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

Sample Tested Composite Assembly

Diameter of Duct Tested 300 mm

Weight of Duct Tested 2.175 Kg

Weight Used to Load Specimen 5.4375 Kg

Spacing for Supports 1500 mm

Observations made during visual examination : No Damage Observed

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

Load applied for 24 hours

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Page 2 of 4

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UL 181.17-2013

Impact Test - Air Duct

Sample Tested Core
Diameter of Duct Tested 300 mm

Specimen	% Reduction in Cross-Sectional Area
1	5.3 %
2	7.9 %
3	6.1 %
Mean	6.4 %

Observations No Tears, Rips or Other Damage Observed

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

UL 181-19-2013

Pressure Test - Air Duct

Sample Tested Core
Exposure 1000Pa over 1 hour

Observations made during visual examination No Damage Observed

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

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Page 3 of 4

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UL 181-20-2013

Collapse Test - Air Duct

Sample Tested Core
Exposure 200Pa over 1 hour
Reduction in Cross-Sectional area during Test 2.6 %
Observations made during visual examination No Damage observed

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

UL 181.21-2013

Tension Test - Air Duct

Sample Tested Core
Weight Applied 11.3kg for 24 hours
Observations made during visual examination No Damage observed

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

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Page 4 of 4

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