

# 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 : PALTECH CORPORATION (AUST)  
PTY LTD  
8 KINGSTON PARK COURT  
KNOXFIELD VIC 3180

TEST NUMBER : 7-558173-AV  
DATE : 28/02/2008  
ORDER NUMBER : 3180

SAMPLE DESCRIPTION Nom: 300mm flexible ducting

UL 181.11-1994

Mould Growth and Humidity Test - Air Duct  
(in accordance with AS 4254-2002)  
Mould used: Chaetium globosum

Did mould spread beyond the inoculated area No

Did structural material become deformed or  
delaminated No

Three samples of each component submitted were tested.  
Testing was conducted by Microtech Laboratories Pty  
Ltd on behalf of AWTA Product Testing

Test requirements:

The mould shall not spread beyond the inoculated area, and no significant growth of mould is to be observed. Structural material shall not become deformed or delaminated; tapes, castings and lining shall remain securely in place, and joints shall not open or show evidence of separation.

Complies

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UL 181.12-1994 Temperature Test - Air Duct  
(in accordance with AS 4254-2002)

SECTION 12.2 Low Temperature Test:  
(Composite-Assembly Tested)  
Exposure: Saturated water vapour atmosphere for 48hrs.  
then at -10+/-2degC for 24 hrs

Observations made during visual examination:  
No damage observed

SECTION 12.3 High Temperature Test:  
(Composite-Assembly tested)  
Exposure: 80degC for 7 days

Observations made during visual examination:  
No damage observed

Three specimens were tested for the low temperature test  
and two specimens were tested for the high temperature  
Test

Test Requirements: Low and High Temperature Tests  
Structural material shall not become deformed or show delamination; tapes;  
casings and lining shall remain securely in place; and joints shall not  
open or show evidence of separation  
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UL 181.13-1994

Puncture Test - Air Duct  
(in accordance with AS 4254-2002)

Composite-Assembly tested

Diameter of duct tested: 300 mm

Did the plunger completely penetrate through the wall

Previously untested specimens: No

High temperature test specimen  
completely penetrated No

Test Requirements:

The samples shall prevent the complete penetration through the wall of the sample of the plunger head falling through a distance of 508mm as measured to the top surface of the sample.

Complies

UL 181.14-1994

Static Load Test - Air Duct  
(in accordance with AS 4254-2002)

Composite-Assembly tested

Diameter of duct tested 300 mm

Weight of duct tested 2.3 kg

Weight used to load specimen 5.75 kg

Spacing for supports 1500 mm

Load applied for 24 hours

Observations made during visual examination:  
No damage observed

Test Requirements:

After supporting the load for 24 hours, the samples shall not be ruptured, broken, torn, ripped, collapsed, or separated; and there shall be no evidence of other damage to the sample which would cause it to be unusable.

Complies

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