

# 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 :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 17-000191  
**Issue Date :** 20/02/2017  
**Print Date :** 20/02/2017  
**Order Number :** TBA

**Sample Description** Clients Ref : "Soundcheck Blind"  
Acoustic blind fabric  
Colour : Charcoal (A51)  
End Use : Blind Fabric  
Nominal Composition : 91% Trevira CS, 9% Polyester

ASTM E 424-71(2007)

### Methods of Measuring Solar Optical Properties of Materials - Solar Heat Control Properties

Ts	43 %
Rs	30 %
As	27 %
Tv	36 %
Rv	10 %
Av	54 %
Tuv	22 %
O-F	16 %

#### SC (Single Glass)

1/8" Cl. 0.68

1/4" Cl. 0.64

1/4" H.A. 0.49

#### SC (Insulating Glass)

1/2" Cl. 0.62

1" Cl. 0.57

1" H.A. 0.39

83005

17057

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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. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

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APPROVED SIGNATORY

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

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The solar transmittance (Ts), solar reflectance (Rs), solar absorptance (As), visible light transmission (Tv), Ultra-violet transmission (Tuv), and openness-factor (O-F) were determined for the fabric alone. The Shading Coefficient (SC) was determined for the fabric used with a single light of 1/8 inch double strength glass, a 1/4 inch clear plate and a 1/4 inch heat absorbing (H.A.) plate. The Shading Coefficients were, also, determined for the screen in combination with a 1/2 inch insulating window made up of two 1/8 inch clear lights separated by a 1/4 inch air space, a 1 inch insulating window made up of two 1/4 inch clear lights separated by a 1/2 inch air space, and a 1 inch insulating window made up of a 1/4 inch H.A. outer light separated from a 1/4 inch clear inner light by a 1/2 inch air space. The Shading Coefficients are for the fabric hung internally at zero degree profile angle unless otherwise indicated.

The test data and calculated results are present in the following table. The Ts, Rs, As, Tv, Tuv and O-F are expressed as percentages.

Each Shading Coefficient (SC) was determined at the centre of the sample, without considering how it was supported on its edges (Centre glass Values). The S.C. is calculated using Pennington and Moore equations and all resulting values must be considered approximate and used for comparison purposes only. If a more exact value is needed, it is recommended that a solar calorimeter test be conducted on each sample at each profile angle.

In making the calculation, it is assumed that the sun strikes the glass at the same profile angle as the profile angle used when the solar transmittance and reflectance of the sample are measured. Testing conducted by MATRIX Solar Services in accordance with ASHRAE Standard 74-1998.

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