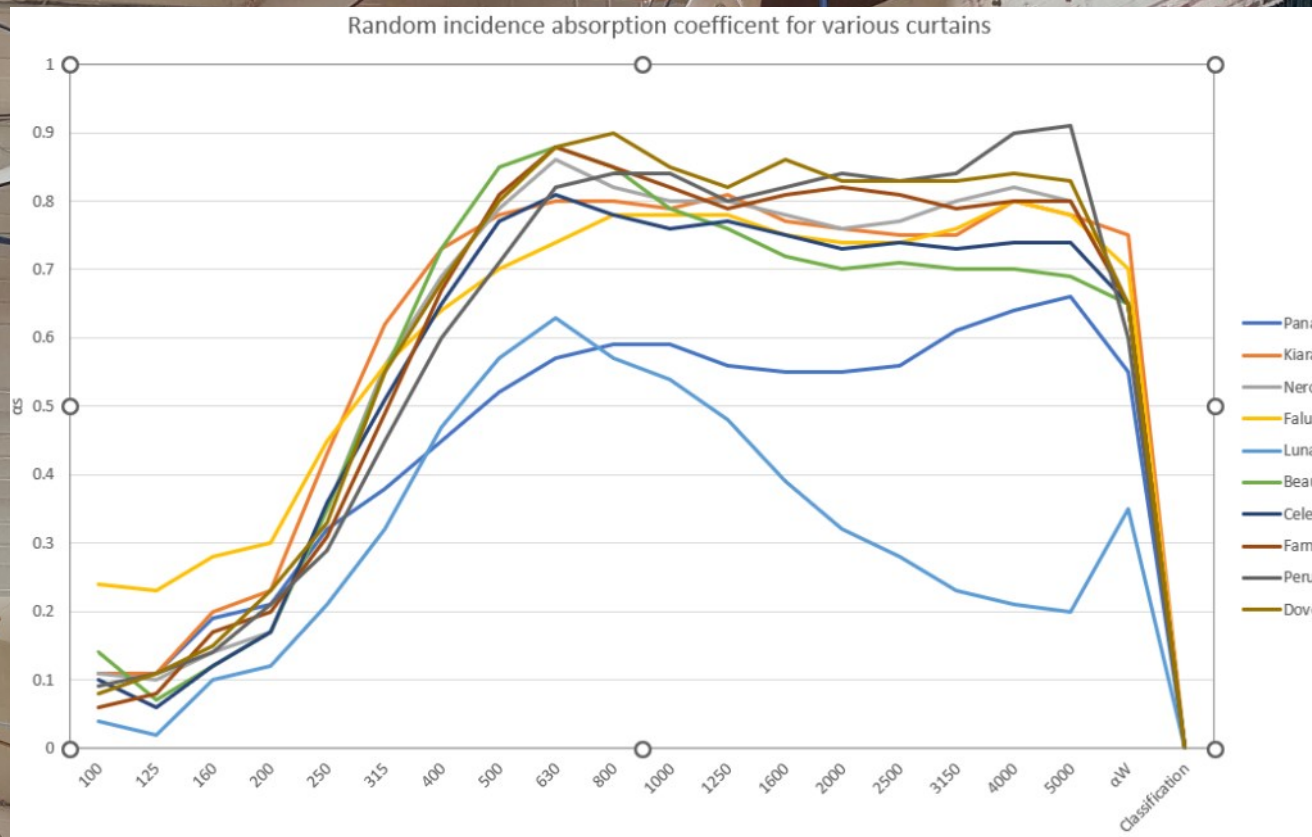# Acoustic Fabrics

Skopos offer a wide range of flame retardant contract fabrics, developed and engineered specifically for contract interior spaces. All interior architects evaluate the separate elements that make up a room; and acoustic properties of these elements are one of the key decision factors.

For relaxing rooms

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Our Fabrics -Absorption Curve

Random incidence absorption coefficient for various curtains

Legend: Panan, Kiara, Nero, Falun, Luna, Beau, Celest, Fame, Peru, Dove

X-axis: 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, αW, Classification

Y-axis: 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1

University of Salford MANCHESTER

For Acoustic Fabrics visit skoposfabrics.com

(Fabrics with an Alpha W score of 0.5 or greater)

Skopos Acoustic Fabrics - designed for perfect spaces.

In order to determine the effective acoustic properties of our fabrics or curtains, Skopos commissioned the experts at Salford University to conduct a series of tests, using their Reverberation Room, to obtain the absorption coefficient values over a range of standard test frequencies, according to BS EN ISO 354. The results were then plotted on a graph to produce an absorption curve. The sound absorption class was attained by comparing these values against a reference curve, resulting in a sound absorption coefficient (αw) calculated in accordance with BS EN ISO11654. Skopos have tested a range of fabrics with and without blackout linings and unsurprisingly the heavier weight curtains with a denser weave and pile, accompanied with a blackout lining, provide the best results, as shown on the graph. These results assist when specifying fabrics and can provide a guide to the performance of other products within the Skopos portfolio.

*Curtains were produced using a pencil pleat header and 100% fullness.
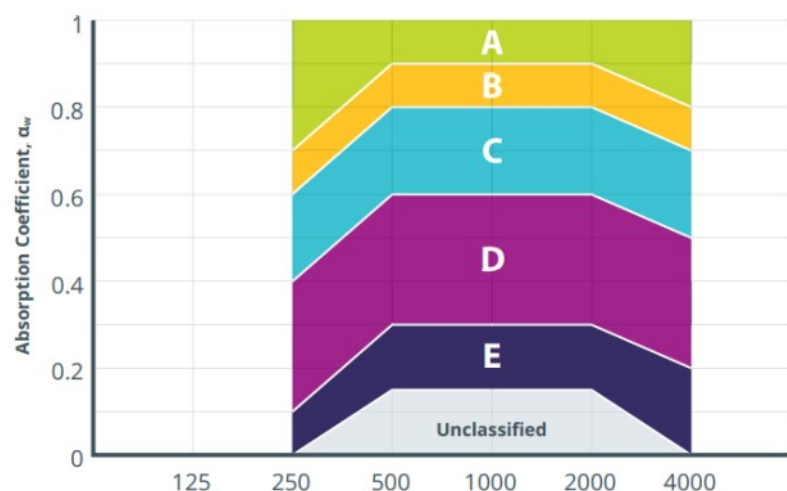
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Sound Absorption Classification

Sound absorption table

Class	Range
A	0.90 - 1.00
B	0.80 - 0.85
C	0.60 - 0.75
D	0.30 - 0.55
E	0.15 - 0.25
Not Classified	0.00 - 0.10

A - Highest
B
C
D
E - Lowest

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(Fabrics with an Alpha W score of 0.5 or greater)

Skopos Acoustic Fabrics - designing perfect spaces.

The results from the reverberation room testing have been split into classification groups A-E., with A being the most sound absorbent. To minimise sound reflection within any contract room, the curtains and other soft furnishings play an important role and tests show that blackout lined curtains, using fabrics with a higher alpha-w rating, provide the most effective window solution. The voile, as a thin layer, when combined with other curtains ,strengthens the rating. Though not entirely effective alone, when added to a curtain solution, the extra layer provides increased privacy and extra acoustic soundproofing. To understand the classification (A to E) for each of the tested scenarios, please view the chart on the next page.
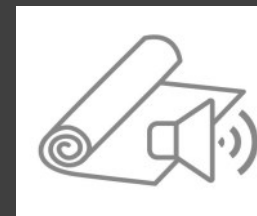
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Acoustic Fabrics - Results

The table below provides a guide for our customers.

Certificates can be provided on request.

We are testing new fabrics continually and adding to our 'Acoustic Fabric' offer. Please search online at skoposfabrics.com for further details. Our print base-cloths (Beau, Panama and P11 Sateen provide a great option to include a design in your schemes.

Fabric Tested	Beau Velvet	Celeste Dimout	Dove Velvet	Falun	Farne	Kiara Dimout	Luna	Panama	Nero Dimout	Peru Drape
α_W measure	0.65	0.65	0.65	0.7	0.65	0.75	0.35	0.55	0.6	0.6
Classification	C	C	C	C	C	C	D	D	C	C

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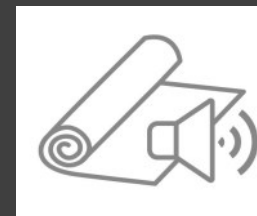
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Fabric Tested	Peru Drape Blackout Lined (excl lining)	Dove Velvet Blackout Lined (excl lining)	Farne Drape Blackout Lined (excl lining)	Fan Recycled Blackout Lined (excl lining)	Inverno Blackout (blackout backing)	Tranquility Voile
Fabric Weight	230 + 250gsm lining	325 + 250gsm lining	285 + 250gsm lining	241 + 250gsm lining	395gsm	85gsm
α_W measure	0.80 0.6	0.80 0.65	0.75 0.65	0.70 0.55	0.40	0.15
Classification	B (C)	B (C)	C (C)	C (D)	D	E

The results show the effectiveness of the fabric plus lining, when measuring the complete curtain (and excluding lining in the brackets)

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