



DAZIAN

Acoustic Fabric Solutions

Acoustic Fabric Reports

Transmission & Absorption

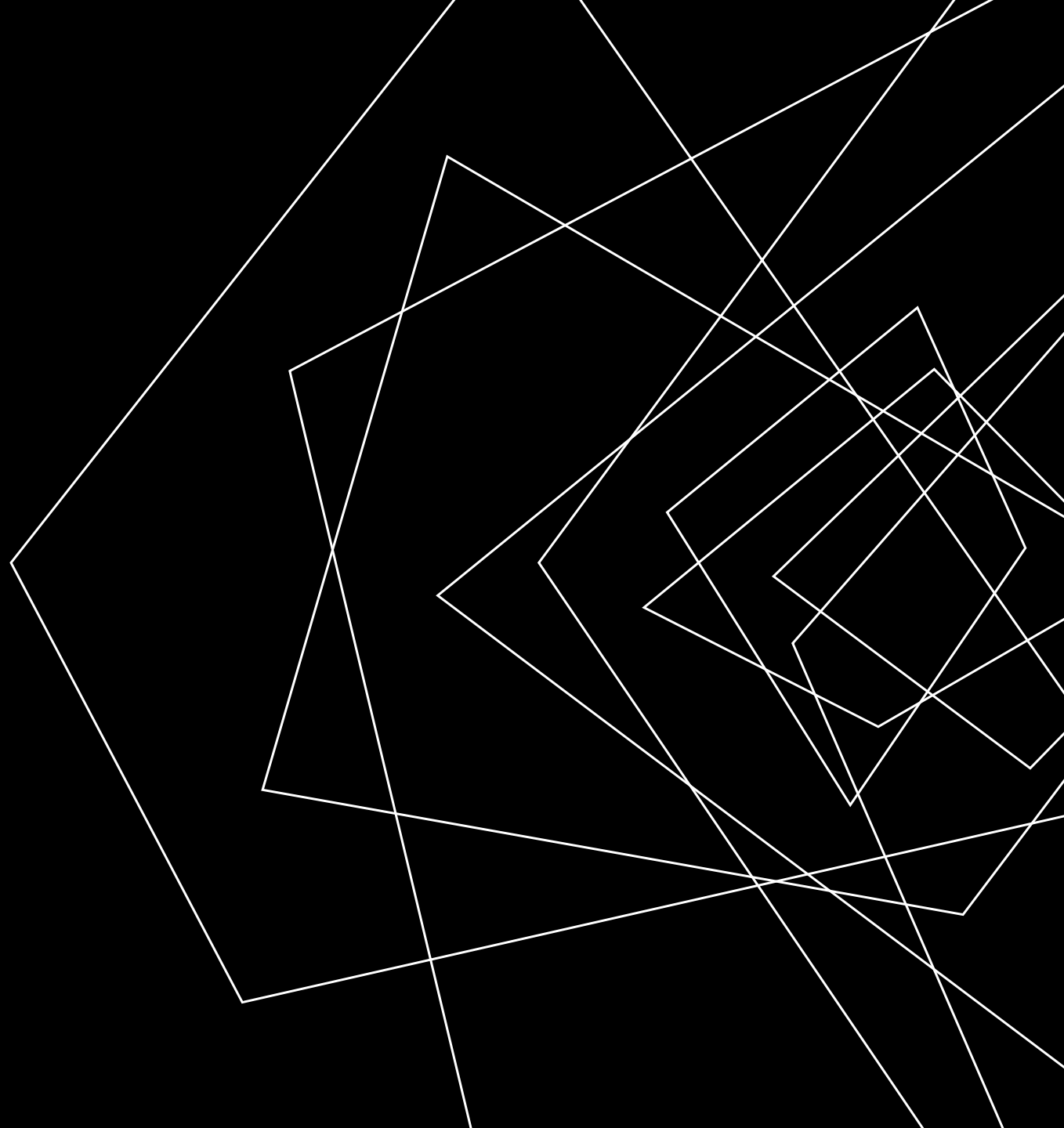
WHAT WE DO

At Dazian, we are a full-service provider, working with designers, fabricators, engineers, and technicians to deliver the best fabric-based solutions for their finished products or custom projects.

Our flame-retardant acoustic fabrics are used to create everything from sound absorption drapery and panels for Theatres, Arenas, Sound Stages, and Live Events to digitally printed interior graphics using our acoustically transparent fabrics for Retail, Trade Shows, and Commercial spaces.

We are not just a fabric resource – Our customers rely on our custom precision sewing, fabric framing, and installation services to deliver turnkey solutions.

From prototyping to production, we are here to support you every step of the way.



ABSORPTION

When it comes to sound control, we have the fabrics, hardware, and custom fabrication capabilities to support any project no matter the size. Our fabrics are engineered to provide optimal sound wave absorption, meeting both technical and safety requirements for most venues and applications.

Sound Control is critical in any space design. Sound-absorbing fabrics help reduce echoing/reverberation and outside interference that can negatively impact audio capture and the overall experience and performance of the room.

Our fabrics are used in Stage Productions, Recording Studios, Museums, Trade Shows, Sporting Arenas, Offices, Theatres, and Live Events.

Acoustic Drapery | Space Dividers | Wall Coverings | Masking Curtains
Ceiling Baffles | Sound Barriers | Acoustic Panels

ABSORPTION | FABRIC SPECIFICATIONS

Fabric Name	Fabric Content	Width	Weight	Fire Spec	Fire Rating	NRC Rating	SAA Rating
Milano™ Velvet Plus	100% Polyester	62"	16oz.	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03	0.70	0.70
Carbonight™ Plus	100% Polyester	62"	16oz.	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03	0.85	0.85
Carbonight™ 22	100% Polyester	60"-62"	22oz.	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03	0.85	0.82
Carbonight™ 25	100% Polyester	60"-62"	25oz.	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03	0.95	0.95
Angelo	100% Polyester	54"	25oz.	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)	0.85	0.84

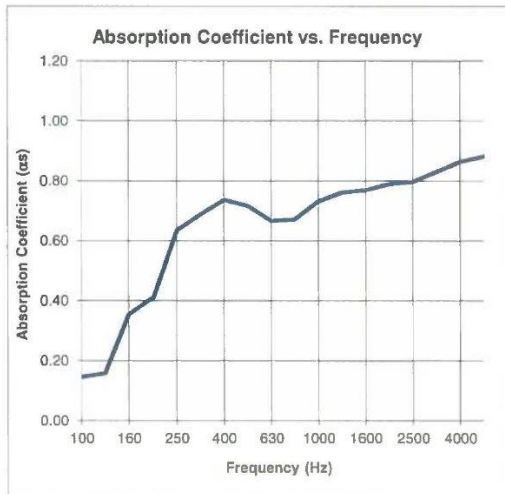
All data was performed in compliance with ASTM C 423-17/E795-16. Panels were installed with Type-G100 Mounting. Laboratory tests are available upon request.

ABSORPTION | FREQUENCY

Milano™ Velvet Plus

Noise Reduction Coefficient NRC:	0.70
Sound Absorption Average SAA:	0.70

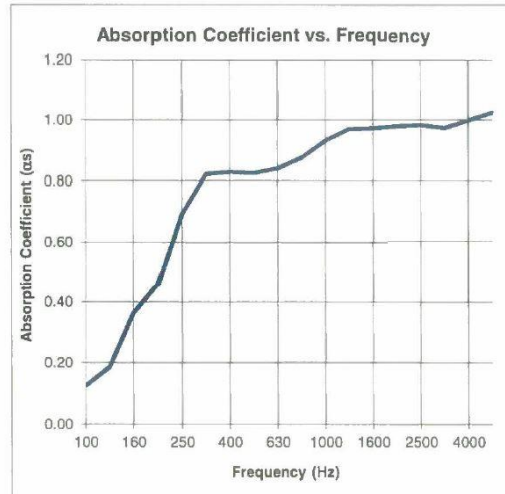
Frequency [Hz]	Absorption Coefficients α_s
100	0.15
125	0.16
160	0.35
200	0.41
250	0.64
315	0.69
400	0.74
500	0.72
630	0.67
800	0.67
1000	0.73
1250	0.76
1600	0.77
2000	0.79
2500	0.80
3150	0.83
4000	0.86
5000	0.88



Carbonight™ Plus

Noise Reduction Coefficient NRC:	0.85
Sound Absorption Average SAA:	0.85

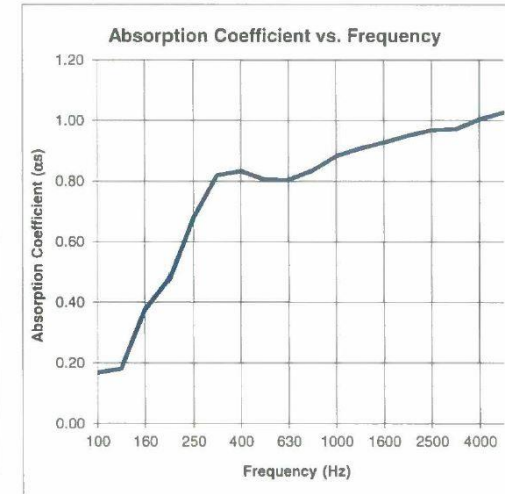
Frequency [Hz]	Absorption Coefficients α_s
100	0.12
125	0.19
160	0.36
200	0.46
250	0.69
315	0.82
400	0.83
500	0.83
630	0.84
800	0.88
1000	0.93
1250	0.97
1600	0.97
2000	0.98
2500	0.98
3150	0.97
4000	1.00
5000	1.02



Carbonight™ 22

Noise Reduction Coefficient NRC:	0.85
Sound Absorption Average SAA:	0.82

Frequency [Hz]	Absorption Coefficients α_s
100	0.17
125	0.18
160	0.38
200	0.48
250	0.68
315	0.82
400	0.83
500	0.80
630	0.80
800	0.84
1000	0.88
1250	0.91
1600	0.93
2000	0.95
2500	0.97
3150	0.97
4000	1.00
5000	1.03

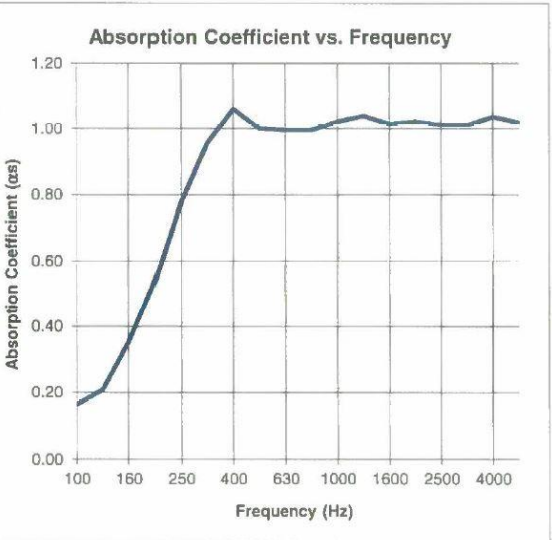


ABSORPTION | FREQUENCY

Carbonight™ 25

Noise Reduction Coefficient NRC: 0.95
 Sound Absorption Average SAA: 0.95

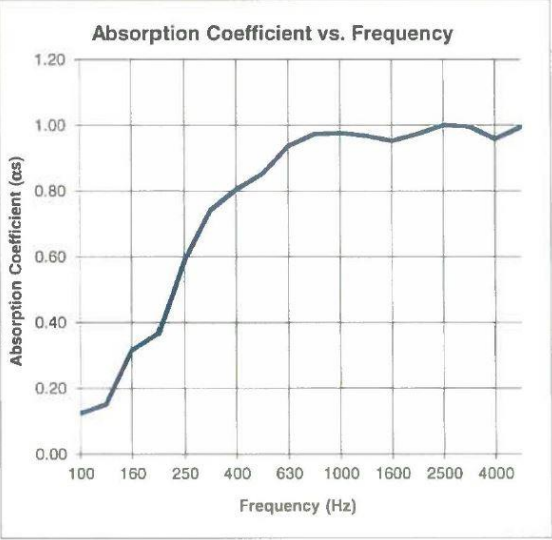
Frequency [Hz]	Absorption Coefficients α_s
100	0.16
125	0.21
160	0.35
200	0.54
250	0.78
315	0.96
400	1.06
500	1.00
630	1.00
800	1.00
1000	1.02
1250	1.04
1600	1.02
2000	1.02
2500	1.01
3150	1.01
4000	1.04
5000	1.02



Angelo

Noise Reduction Coefficient NRC: 0.85
 Sound Absorption Average SAA: 0.84

Frequency [Hz]	Absorption Coefficients α_s
100	0.12
125	0.15
160	0.32
200	0.37
250	0.59
315	0.74
400	0.80
500	0.85
630	0.94
800	0.97
1000	0.98
1250	0.97
1600	0.95
2000	0.97
2500	1.00
3150	1.00
4000	0.96
5000	0.99



TRANSPARENT

Our acoustically transparent fabrics are utilized in projects when both interior and sound design play an intricate role in the overall environment.

To help create your perfect space, we offer a wide variety of printable acoustically transparent fabrics that meet both technical and safety requirements for most venues and applications. From blackout, to stretch and masking, these fabrics are developed to integrate into existing or temporary spaces.

Our fabrics are used in Theatres, Concert Halls, Sporting Arenas, Trade Shows, Exhibitions, Retail, and Commercial Spaces.

Graphic Wall Coverings | Acoustic Panels | Speaker Covers | Curtains
Projection Screens | Trade Show Booths | Tension Frames & Structures | Partitions

TRANSPARENT | FABRIC SPECIFICATIONS

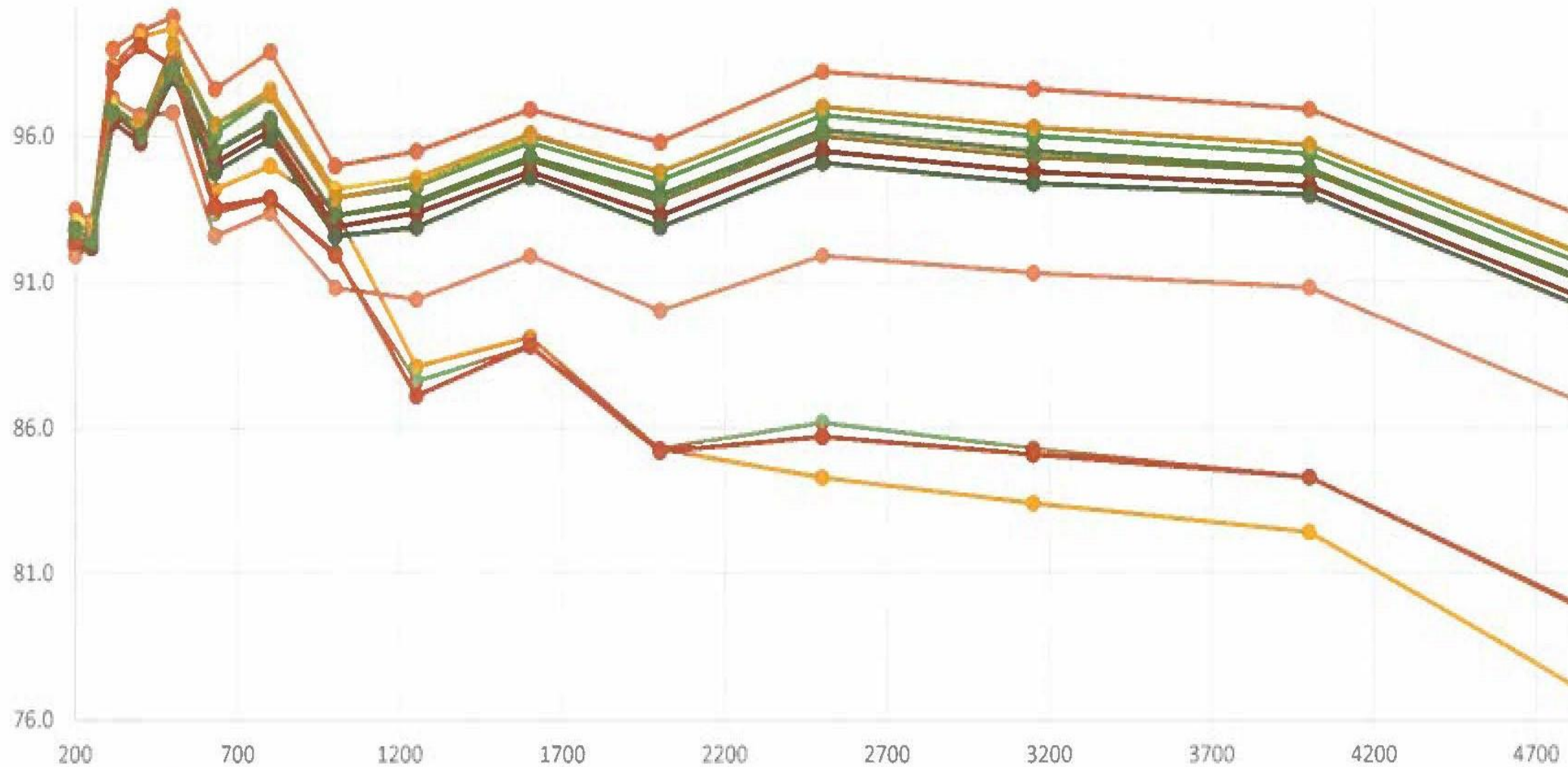
Fabric	Print Method	Width	Weight: kg/m ² (PSF)	Thickness mm (in.)	Fire Spec	Fire Rating
Celtic Black Back	Dye Sub Transfer Dye Sub Direct UV Latex	126" 199"	4.10 (0.84)	0.46 (0.02)	FR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC-S109 B1
Celtic Cloth	Dye Sub Transfer	126"	2.93 (0.60)	0.52 (0.02)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC-S109
Celtic Cloth HW	Dye Sub Transfer	126"	4.30 (0.88)	0.75 (0.03)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC-S109
Celtic Cloth Gray Back BW	Dye Sub Transfer Dye Sub Direct	126"	5.08 (1.04)	0.71 (0.03)	FR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)
Acrobat® w/MIRA-S™	Dye Sub Transfer	120"	3.22 (0.66)	0.53 (0.02)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)
Acrobat® HV w/MIRA-S™	Dye Sub Transfer	120"	4.30 (0.88)	0.67 (0.03)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)
Trapeze® Plus	Dye Sub Transfer	122"	3.03 (0.62)	0.61 (0.02)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)
Trapeze® Plus HW	Dye Sub Transfer	122"	4.39 (0.90)	0.72 (0.03)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19)
ProjecTex™ Spacer Assimilator	Dye Sub Transfer	120"	7.42 (1.52)	2.35 (0.09)	NFR	N/A
Janus	N/A	72" 126"	4.39 (0.90)	0.50 (0.02)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) ASTM E 84 CAN/ULC-S109 NTC 44
PD Cloth®	N/A	72" 126"	4.39 (0.90)	0.48 (0.02)	IFR	NFPA 701 Small Scale CA 1237Sm (CA Title 19) ASTM E 84 CAN/ULC-S109

Preconditioning: Fabrics were conditioned at 25°C and 55% humidity for a minimum of 24 hours.

TRANSMISSION | FREQUENCY

Hz	Bare Speaker	Celtic Cloth Black Back	Celtic Cloth	Celtic Cloth HW	Celtic Cloth Grey Back	Acrobat® w/MIRA-S™	Acrobat® HV w/MIRA-S™	Trapeze® Plus	Trapeze® Plus HW	ProjecTex™ Spacer Assimilator	Janus	PD Cloth
200	93.5	92.2	92.8	92.3	91.9	92.5	92.3	92.9	92.8	93.1	92.5	92.4
250	93.1	92.5	92.3	92.2	92.3	92.7	92.5	92.9	92.3	93.0	92.8	92.6
315	99.0	98.4	96.9	96.5	97.3	97.1	97.0	96.8	96.8	97.1	98.2	98.2
400	99.6	99.4	96.1	95.8	96.7	96.3	96.2	96.3	96.0	96.3	99.1	99.1
500	100.1	99.7	99.2	98.0	96.8	98.6	98.0	99.1	98.3	99.2	98.3	98.4
630	97.6	94.2	96.1	95.1	92.6	95.5	94.8	96.4	95.5	96.4	93.4	93.6
800	98.9	95.0	97.4	96.2	93.4	96.6	95.9	97.4	96.5	97.6	93.9	93.9
1000	95.0	93.5	93.9	92.9	90.8	93.3	92.6	93.9	93.3	94.2	91.9	92.0
1250	95.5	88.1	94.3	93.4	90.4	93.7	92.9	94.4	93.8	94.6	87.6	87.1
1600	96.9	89.1	95.8	94.8	91.9	95.2	94.6	96.0	95.3	96.1	88.8	88.8
2000	95.8	85.3	94.5	93.3	90.0	93.8	92.9	94.8	94.0	94.8	85.3	85.2
2500	98.2	84.3	96.7	95.5	91.9	96.0	95.1	97.0	96.2	97.0	86.2	85.7
3150	97.6	84.3	96.0	94.8	91.3	95.3	94.4	96.3	95.5	96.3	85.3	85.1
4000	96.9	82.4	95.4	94.3	90.8	94.8	94.0	95.7	94.9	95.7	84.3	84.3
5000	92.6	76.0	90.9	89.7	86.1	90.3	89.4	91.3	90.4	91.2	78.9	79.0

TRANSMISSION | PERFORMANCE COMPARISON



- Bare Speaker
- Acrobat® w/MIRA-S™
- Janus
- Celtic Black Back
- Acrobat® HV w/MIRA-S™
- PD Cloth
- Celtic Cloth
- Celtic Cloth Grey Back
- Trapeze® Plus
- Celtic Cloth Heavyweight
- ProjectTex™ Spacer Assimilator
- Trapeze® Plus Heavy Weight



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