



Acoustic Fabric Solutions

Acoustic Fabric Reports

Transmission & Absorption

WHAT WE DO

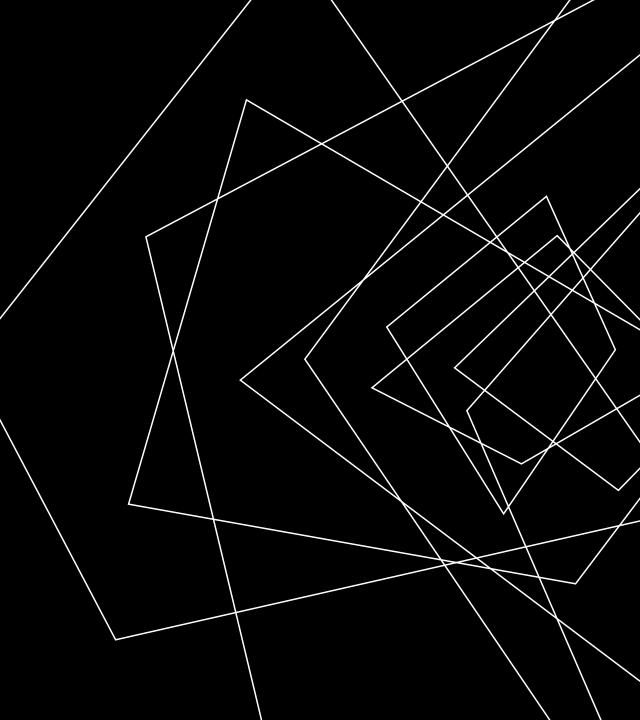
At Dazian, we are a full-service provider, working with designers, fabricators, engineers, and technicians to deliver the best fabricbased solutions for their finished products or custom projects.

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. In 2023 we launched Evoke[™] and Revert[™], two new exciting sustainable fabric brands that offer a variety of fabric solutions for wall coverings, wide-format graphics, acoustic curtains, projection screens, tension and exhibit structures.

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.

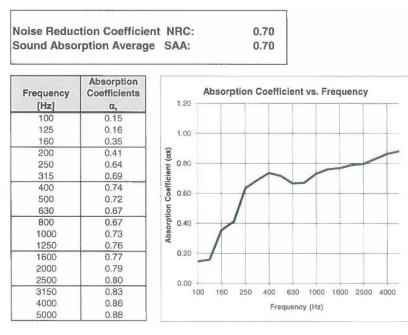
Sound Control is critical in any space design. Sound-absorbing fabrics help reduce echoing/reverberation and outside interference that can negatively impact audio capture and the overall experience and performance of the room.

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

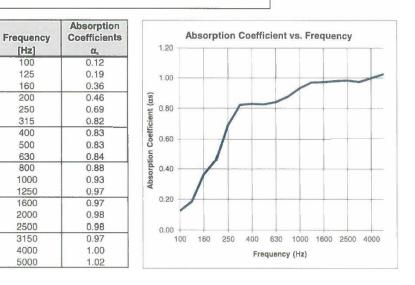
Acoustic Drapery | Space Dividers | Wall Coverings | Masking Curtains Ceiling Baffles | Sound Barriers | Acoustic Panels

CONSTRUCTION DETAILS: 50% FULLNESS WITH BOX PLEATS SINGLE-SIDED - NO LINING.

Milano_® Velvet Plus 16oz. Carbonight_® Plus 16oz.



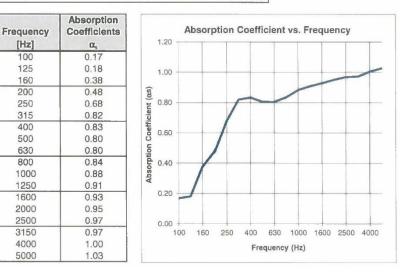
Noise Reduction Coefficient NRC: 0.85 Sound Absorption Average SAA: 0.85



Carbonight_® 22oz.

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

[Hz]

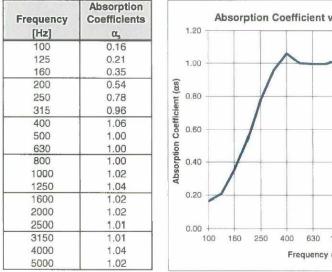


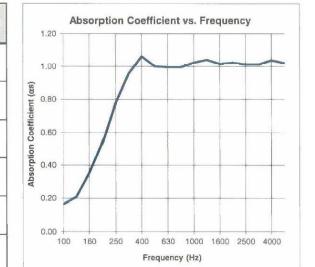
CONSTRUCTION DETAILS: 50% FULLNESS WITH BOX PLEATS SINGLE-SIDED - NO LINING.

Carbonight_® 25oz.

Noise Reduction Coefficient NRC: Sound Absorption Average SAA:

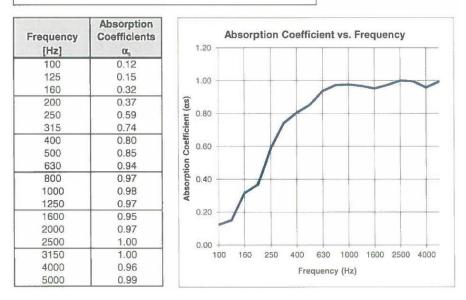
0.95 0.95





Angelo 25oz.

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

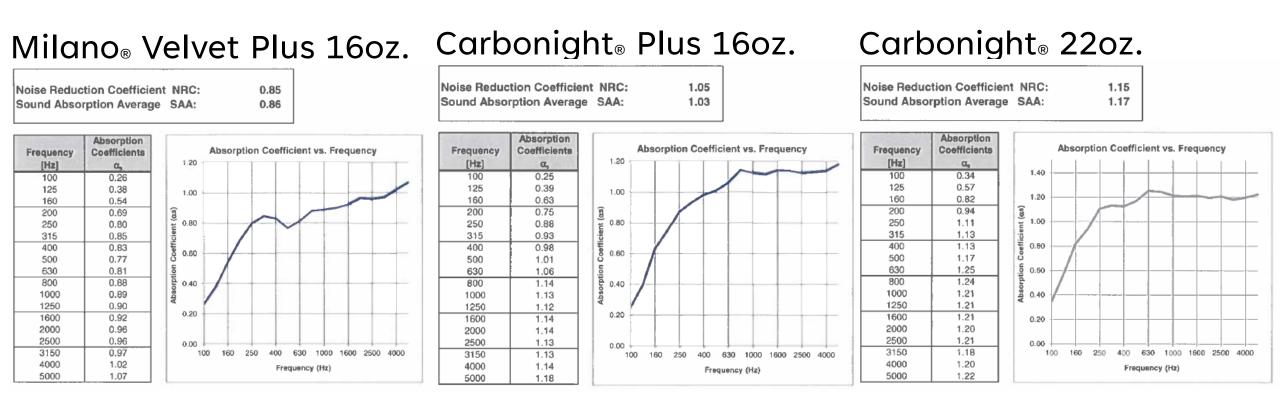


ABSORPTION | FABRIC SPECIFICATIONS

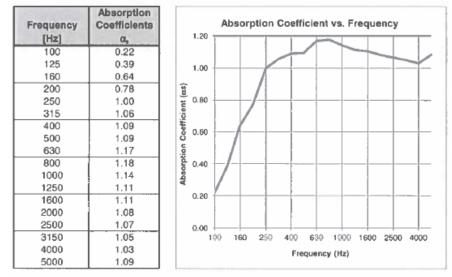
| Fabric Name | Fabric Content | Width | Weight | Fire Spec | Fire Rating | NRC Rating | SAA Rating |
|---------------------|----------------|---------|--------|-----------|--|------------|------------|
| Milano® Velvet Plus | 100% Polyester | 62" | 16oz. | IFR | NFPA 701 Small Scale CA 1237Sm (CA Title 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 collected in compliance with ASTM C 423-17/E795-16. Panels were installed with Type-G100 Mounting. Laboratory tests are available upon request.

CONSTRUCTION DETAILS: **DOUBLE-SIDED** WITH 50% FULLNESS AND BOX PLEATS.

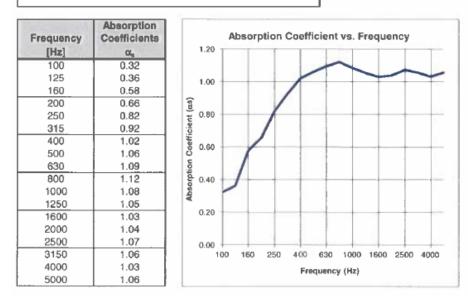


Carbonight_® 25oz.



Angelo 25oz.

| Noise Reduction Coefficient | NRC: | 1.00 |
|-----------------------------|------|------|
| Sound Absorption Average | SAA: | 1.00 |



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 | 0.85 | 0.86 |
| Carbonight® Plus | 100% Polyester | 62" | 16oz. | IFR | NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03 | 1.05 | 1.03 |
| Carbonight® 22 | 100% Polyester | 60"-62" | 22oz. | IFR | NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03 | 1.15 | 1.17 |
| Carbonight® 25 | 100% Polyester | 60"-62" | 25oz. | IFR | NFPA 701 Small Scale CA 1237Sm (CA Title 19) CAN/ULC S109-03 | 1.10 | 1.07 |
| Angelo | 100% Polyester | 54" | 25oz. | IFR | NFPA 701 Small Scale CA 1237Sm (CA Title 19) | 1.00 | 1.00 |

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

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

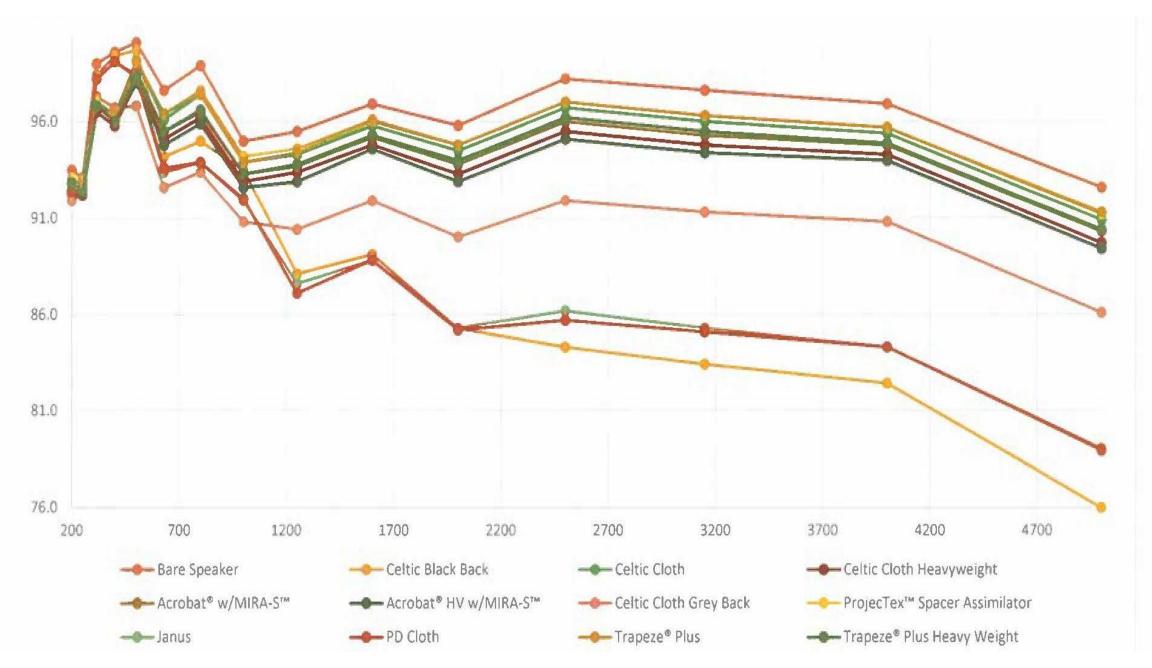
| Fabric | Print Method | Width | Weight kg/M2 (PSF) | Thickness mm (in.) | Fire Spec | Fire Rating | Available in Sustainable |
|-------------------------------|---|-------------|--------------------|--------------------|-----------|--|--------------------------|
| Celtic Black Back | Dye Sublimation Transfer Dye Sublimation Direct UV Latex | 126" 199" | 4.10 (0.84) | 0.46 (0.02) | FR | NFPA 701 Small Scale CA 12375m (CA Title 19) CAN/ULC-S109 B1 | NO |
| Celtic Cloth | Dye Sublimation Transfer | 126" | 2.93 (0.60) | 0.52 (0.02) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) CAN/ULC-S109 | YES |
| Celtic Cloth HW | Dye Sublimation Transfer | 126" | 4.30 (0.88) | 0.75 (0.03) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) CAN/ULC-S109 | YES |
| Celtic Cloth Grey Back BW | Dye Sublimation Transfer | 126" | 5.08 (1.04) | 0.71 (0.03) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) | YES |
| Acrobat® w/MIRA-S™ | Dye Sublimation Transfer | 120" | 3.22 (0.66) | 0.53 (0.02) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) | NO |
| Acrobat® HV w/MIRA-S™ | Dye Sublimation Transfer | 120" | 4.30 (0.88) | 0.67 (0.03) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) | NO |
| Trapeze® Plus | Dye Sublimation Transfer | 122" | 3.03 (0.62) | 0.61 (0.02) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) | YES |
| Trapeze® Plus HW | Dye Sublimation Transfer | 122" | 4.39 (0.90) | 0.72 (0.03) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) | YES |
| ProjecTex™ Spacer Assimilator | Dye Sublimation Transfer | 120" | 7.42 (1.52) | 2.35 (0.09) | NFR | N/A | NO |
| Janus | N/A | 72" 126" | 4.39 (0.90) | 0.50 (0.02) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) ASTM E 84 CAN/ULC-S109 NTC 44 | NO |
| PD Cloth | N/A | 72" 126" | 4.39 (0.90) | 0.48 (0.02) | IFR | NFPA 701 Small Scale CA 12375m (CA Title 19) ASTM E 84 CAN/ULC-S109 | NO |

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

TRANSMISSION | FREQUENCY

| | | | | | | | | - | T O D | | | |
|------|-----------------|----------------------------|-----------------|--------------------|------------------------------|-----------------------|--------------------------|------------------|---------------------|----------------------------------|--------|-------------|
| Hz | Bare Speaker | Celtic Cloth Black Back | Celtic Cloth | Celtic Cloth HW | Celtic Cloth Grey Back BW | 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 | 3 92.3 | 3 91.9 | 92.5 | 92.3 | 92.9 | 92.8 | 93.1 | 1 92.5 | 5 92.4 |
| | | | | | | | | | | | | |
| 250 | 93.1 | 92.5 | 92.3 | 3 92.2 | 2 92.3 | 92.7 | 92.5 | 5 92.9 | 92.3 | 93. 0 | 0 92.8 | 92.6 |
| 315 | 99. 0 | 98.4 | 96.9 | 9 96.5 | 5 97.3 | 97.1 | . 97. 0 | 96.8 | 96.8 | 97.1 | 1 98.2 | 98.2 |
| 400 | 99.6 | 99.4 | 96.1 | L 95.8 | 96.7 | 96.3 | 96.2 | 2 96.3 | 96. 0 | 96.3 | 3 99.1 | 99.1 |
| 500 | 100.1 | 99.7 | 99.2 | 2 98. 0 | 96.8 | 98.6 | 98. 0 | 99.1 | 98.3 | 99.2 | 2 98.3 | 98.4 |
| 630 | 97.6 | 94.2 | 96.1 | L 95.1 | | | | | 95.5 | 96.4 | | |
| | | | | | | | | | | | | |
| 800 | 98.9 | 95. 0 | 97.4 | 4 96.2 | 2 93.4 | 96.6 | 95.9 | 9 97.4 | 96.5 | 97.6 | 6 93.9 | 9 93.9 |
| 1000 | 95. 0 | 93.5 | 93.9 | 92.9 | 9 90.8 | 93.3 | 92.6 | 5 93.9 | 93.3 | 94.2 | 2 91.9 | 92.0 |
| 1250 | 95.5 | 88.1 | . 94.3 | 3 93.4 | 4 90.4 | . 93.7 | 92.9 | 9 94.4 | 93.8 | 94.6 | 6 87.6 | 6 87.1 |
| 1600 | 96.9 | 89.1 | . 95.8 | 3 94.8 | 3 91.9 | 95.2 | 94.6 | 6 96. 0 | 95.3 | 96.1 | 1 88.8 | 88.8 |
| 2000 | 95.8 | 85.3 | 94.5 | 5 93.3 | 3 90. 0 | 93.8 | 92.9 | 94.8 | 94. 0 | 94.8 | 8 85.3 | 8 85.2 |
| | | | | | | | | | | | | |
| 2500 | 98.2 | 84.3 | 96.7 | 7 95.5 | 5 91.9 | 96. 0 | 95.1 | L 97. 0 | 96.2 | 97. 0 | 0 86.2 | 2 85.7 |
| 3150 | 97.6 | 84.3 | 96. 0 | 94.8 | 8 91.3 | 95.3 | 94.4 | 1 96.3 | 95.5 | 96.3 | 3 85.3 | 8 85.1 |
| 4000 | 96.9 | 82.4 | 95.4 | 4 94.3 | 3 90.8 | 94.8 | 94. 0 | 95.7 | 94.9 | 95.7 | 7 84.3 | 8 84.3 |
| 5000 | 92.6 | 76.0 | 90.9 | 89.7 | 7 86.1 | . 90.3 | 8 89.4 | 4 91.3 | 90.4 | 91.2 | 2 78.9 | 9 79.0 |

TRANSMISSION | PERFORMANCE COMPARISON



TRANSPARENT | IFR VELVETS & VELOURS – FABRIC SPECIFICATIONS

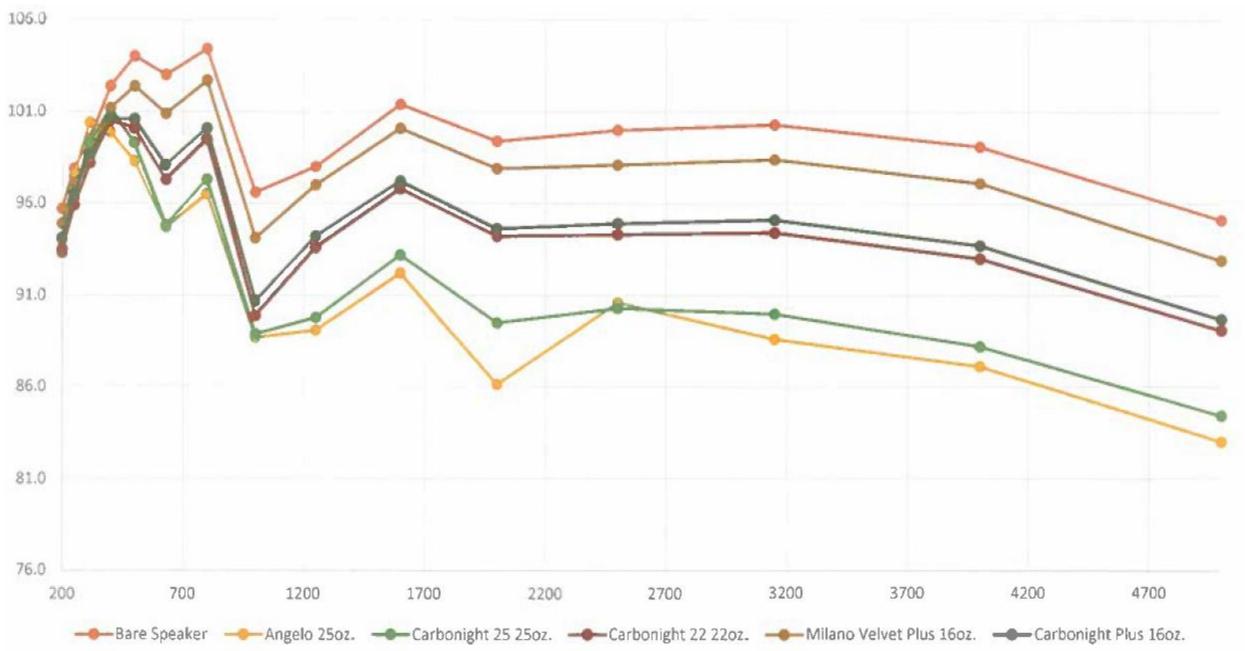
| Fabric | Fabric Content | Width | Weight: kg/M2 (PSF) | Thickness mm (in.) | Fire Spec | Fire Rating | Available in Sustainable |
|---------------------|----------------|-------|---------------------|--------------------|-----------|--|--------------------------|
| | | | | | | | |
| Milano® Velvet Plus | 100% Polyester | 62" | 2.04 (0.42) | 1.35 (0.05) | IFR | NFPA 701Small Scale CA 1237Sm (Title 19) CAN/ULC S109-03 | YES |
| Carbonight® Plus | 100% Polyester | 62" | 2.01 (0.41) | 1.02 (0.04) | IFR | NFPA 701Small Scale CA 1237Sm (Title 19) CAN/ULC S109-03 | YES |
| Carbonight® 22 | 100% Polyester | 62" | 2.28 (0.57) | 1.78 (0.07) | IFR | NFPA 701Small Scale CA 1237Sm (Title 19) CAN/ULC S109-03 | YES |
| Carbonight® 25 | 100% Polyester | 62" | 3.13 (0.64) | 1.78 (0.07) | IFR | NFPA 701Small Scale CA 1237Sm (Title 19) CAN/ULC S109-03 | YES |
| Angelo Velvet | 100% Polyester | 54" | 2.47 (0.51) | 3.30 (0.13) | IFR | NFPA 701 Small Scale CA 1237Sm (Title 19) | NO |

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

TRANSMISSION | FREQUENCY

| Hz | Bare Speaker | Milano™ Velvet Plus | Carbonight® Plus | Carbonight® 22 | Carbonight® 25 | Angelo |
|------|--------------|---------------------|------------------|----------------|----------------|--------|
| 200 | 95.7 | 94.9 | 94.1 | 93.5 | 93.3 | 94.0 |
| 250 | 97.9 | 97.1 | 96.5 | 95.9 | 96.3 | 97.5 |
| 315 | 99.5 | 98.6 | 98.7 | 98.2 | 99.3 | 100.4 |
| 400 | 102.4 | 101.2 | 100.6 | 100.5 | 101.2 | 99.9 |
| 500 | 104.0 | 102.4 | 100.6 | 100.1 | 99.3 | 98.3 |
| 630 | 103.0 | 100.9 | 98.1 | 97.3 | 94.8 | 94.7 |
| 800 | 104.4 | 102.7 | 100.1 | 99.5 | 97.3 | 96.5 |
| 1000 | 96.6 | 94.1 | 90.7 | 89.9 | 88.9 | 88.7 |
| 1250 | 98.0 | 97.0 | 94.2 | 93.6 | 89.8 | 89.1 |
| 1600 | 101.4 | 100.1 | 97.2 | 96.8 | 93.2 | 92.2 |
| 2000 | 99.4 | 97.9 | 94.6 | 94.2 | 89.5 | 86.1 |
| 2500 | 100.0 | 98.1 | 94.9 | 94.3 | 90.3 | 90.6 |
| 3150 | 100.3 | 98.4 | 95.1 | 94.4 | 90.0 | 88.6 |
| 4000 | 99.1 | 97.1 | 93.7 | 93.0 | 88.2 | 87.1 |
| 5000 | 95.1 | 92.9 | 89.7 | 89.1 | 84.4 | 83.0 |

TRANSMISSION | PERFORMANCE COMPARISON



FOR COMPLETE LAB REPORTS ON ALL OF OUR ACOUSTICAL FABRICS PLEASE CONTACT YOUR LOCAL DAZIAN OFFICE.

