



UL Classified Acoustical Performance Summary

Acoustic Performance

Product Family	Sound absorption co-efficients ^A – e-400 mounting						Published Value: Sound absorption ^B NRC ^D	Published Value: Sound Transmission ^C CAC ^D	Articulation Class	Total Acoustics
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz				

Soft Fiber

Lyra®	0.75	0.95	0.79	1.00	1.03	1.00	0.95	–	190	–
Lyra® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.9	–	190	–
Optima® 3/4"	0.81	0.94	0.76	0.93	1.05	1.01	0.9	–	180	–
Optima 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	–	190	–
Optima 1" w/CAC Backing	0.44	0.60	0.79	1.09	1.08	0.89	0.9	26	200	–
Optima 1.5"	0.73	0.95	0.92	10.60	1.03	0.94	1.00	–	200	–
Optima® 1.5" w/CAC Backing	0.51	0.85	0.91	1.13	1.09	1.01	0.95	26	200	–
Optima® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.9	–	190	–
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	–
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	–
Optima® Health Zone™	0.72	1.00	0.80	1.01	1.06	0.98	0.95	–	190	–
Optima® Vector®	0.70	0.84	0.78	0.99	1.06	1.01	0.9	–	190	–
Optima® Vector® w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.8	26	190	–
Painted Nubby™ 3/4"	0.73	0.94	0.70	0.90	0.99	1.01	0.85	–	180	–
Painted Nubby 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	–	190	–
Pebble™ Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	–	–	–
Pebble Perforated High NRC	0.74	0.78	0.68	0.88	0.78	0.66	0.8	–	–	–
Random Fissured™ Unperforated	0.50	0.33	0.29	0.78	0.78	0.64	0.55	–	–	–
Random Fissured Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	–	–	–
Shasta® Unperforated	0.47	0.33	0.32	0.82	0.75	0.72	0.5	–	–	–
Shasta 5/8" Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.7	–	–	–

Mineral Fiber

Armatuff®	0.24	0.35	0.71	0.61	0.42	0.28	0.5	33-35	–	–
Calla®	0.59	0.56	0.82	0.99	0.95	0.94	0.85	35	170	Best
Canyon®	0.41	0.32	0.56	0.84	0.82	0.80	0.6	35	–	Good
Ceramaguard® Perforated	0.28	0.27	0.43	0.72	0.92	0.86	0.55	38-40	–	–
Ceramaguard Unperforated	–	–	–	–	–	–	–	40	–	–
Cirrus®	0.32	0.31	0.59	0.93	1.00	0.99	0.7	35	–	Better
Cirrus® Fire Guard™	0.27	0.25	0.29	0.36	0.46	0.53	0.35	35	–	–
Cirrus® High CAC	0.36	0.37	0.71	0.90	0.96	0.95	0.7	38-40	–	Better
Cirrus® High NRC	0.33	0.39	0.85	1.00	0.96	0.96	0.75	35	170	Better
Cirrus Profiles	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	–	Good
Cirrus® Second Look®	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	–	Good
Clean Room™ FL (border units)	–	–	–	–	–	–	–	35	–	–
Clean Room FL (field units)	0.25	0.24	0.59	0.90	0.75	0.51	0.55	35	–	–
Clean Room VL Perforated	0.22	0.24	0.53	0.90	0.78	0.47	0.55	35	–	–
Clean Room VL Unperforated	–	–	–	–	–	–	–	40	–	–

- A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at techline@armstrongceilings.com
- B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."
- C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."
- D = NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876

REFERENCE – ACOUSTIC PERFORMANCE



UL Classified Acoustical Performance Summary

Acoustic Performance

Product Family	Sound absorption co-efficients ^a – e-400 mounting						Published Value: Sound Absorption ^b NRC ^d	Published Value: Sound Transmission ^c CAC ^d	Articulation Class	Total Acoustics
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz				
Mineral Fiber (continued)										
Cortega®	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	–	–
Cortega® Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Cortega® Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	–	–
Cortega Second Look Fire Guard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	40	–	–
Designer	0.33	0.33	0.51	0.68	0.73	0.76	0.55	30-33	–	–
Dune™	0.39	0.35	0.60	0.60	0.51	0.34	0.5	30-35	–	–
Dune™ Fire Guard™	0.21	0.28	0.51	0.74	0.60	0.42	0.5	35	–	–
Dune™ Second Look®	0.37	0.37	0.63	0.64	0.56	0.39	0.5	35	–	–
Fine Fissured™	0.30	0.35	0.59	0.71	0.69	0.58	0.55	35	–	–
Fine Fissured Fire Guard	0.20	0.27	0.52	0.89	0.82	0.75	0.55	35	–	–
Fine Fissured Fire Guard High NRC	0.20	0.30	0.74	0.95	0.87	0.78	0.7	35-40	–	Better
Fine Fissured™ High NRC	0.28	0.39	0.86	1.01	1.01	1.02	0.75	35	170	Better
Fine Fissured™ School Zone	0.29	0.30	0.65	0.91	0.85	0.79	0.7	35-40	–	Better
Fine Fissured™ Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	–	–
Fine Fissured™ Second Look® FireGuard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	35	–	–
Fine Fissured Tile	0.43	0.31	0.42	0.66	0.79	0.70	0.55	35	–	–
Fissured™	0.25	0.25	0.46	0.74	0.82	0.81	0.55	30	–	–
Fissured Fire Guard	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Georgian™	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	–	–
Georgian Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Georgian™ High Washability	–	–	–	–	–	–	–	33	–	–
Graphis® Finetex™	–	–	–	–	–	–	–	35	–	–
Graphis® Rustex™	0.39	0.31	0.44	0.69	0.89	0.98	0.55	30	–	–
Ledges®	–	–	–	–	–	–	–	35	–	–
Mesa™	0.35	0.40	0.67	0.78	0.76	0.67	0.6	33-35	–	Good
Mesa™ High CAC	0.30	0.32	0.69	0.84	0.73	0.62	0.6	40	–	Good
Mesa™ Second Look®	0.35	0.40	0.67	0.78	0.76	0.67	0.6	35	–	Good
Tincraft™	–	–	–	–	–	–	–	35	–	–
Tundra®	0.23	0.26	0.57	0.67	0.50	0.38	0.5	33-35	–	–
Ultima®	0.32	0.33	0.67	0.97	0.96	0.93	0.75	35	–	Better
Ultima® Fire Guard	0.26	0.31	0.59	0.78	0.80	0.69	0.6	40	–	Good
Ultima® Health Zone™	0.30	0.32	0.71	0.92	0.90	0.89	0.7	38	–	Better
Ultima® Health Zone™ High NRC	0.33	0.36	0.76	1.00	0.98	0.98	0.8	35	–	Best
Ultima® High CAC	0.26	0.31	0.59	0.78	0.80	0.69	0.6	40	–	Good
Ultima® High NRC	0.28	0.39	0.79	0.98	0.96	0.90	0.8	35	170	Best
Ultima® Vector®	0.34	0.38	0.67	0.89	0.82	0.80	0.7	33	–	–

A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at techline@armstrongceilings.com

B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."

C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."

D = NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876

REFERENCE – ACOUSTIC PERFORMANCE