

# UL Classified Acoustical Performance Summary Ceilings

PRODUCT/DESIGN* BY CEILING CATEGORY	UNIT SIZE TESTED	SOUND ABSORPTION COEFFICIENTS <sup>C</sup> — E-400 MOUNTING						SOUND ABSORPTION <sup>E</sup>		SOUND TRANSMISSION <sup>F</sup>
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	ADVERTISED		CAC
								NRC <sup>D</sup>	AC <sup>G</sup>	ADVERTISED MINIMUM <sup>D</sup>
<b>GENERAL APPLICATION CEILING</b>										
CIRRUS Angled Tegular	24" x 24" x 3/4"	0.20	0.34	0.66	0.86	0.90	0.91	0.70	–	35
CIRRUS Beveled Tile Fire Guard	12" x 12" x 3/4"	0.36	0.34	0.54	0.72	0.86	0.87	0.60	–	40
CIRRUS Profiles Classic Step	24" x 24" x 3/4"	0.31	0.27	0.56	0.85	0.94	0.95	0.65	–	35
CIRRUS High CAC Angled Tegular	24" x 24" x 7/8"	0.27	0.37	0.70	0.91	0.94	0.96	0.70	–	40
CORTEGA Fire Guard	24" x 24" x 5/8"	0.30	0.30	0.64	0.98	0.74	0.56	0.55	–	35
CORTEGA High CAC Square Lay-in	24" x 48" x 5/8"	0.13	0.22	0.54	0.87	0.86	0.76	0.55	–	40
CORTEGA Second Look II Squares	24" x 48" x 3/4"	0.35	0.28	0.52	0.70	0.65	0.74	0.55	–	30
CORTEGA Second Look II Fire Guard	24" x 48" x 3/4"	0.32	0.31	0.62	0.78	0.82	0.86	0.55	–	40
CORTEGA Second Look IV Squares	24" x 48" x 3/4"	0.16	0.23	0.47	0.62	0.62	0.61	0.50	–	35
CORTEGA Square Lay-in	24" x 48" x 5/8"	0.30	0.25	0.51	0.80	0.84	0.78	0.55	–	35
DUNE Angled Tegular	24" x 24" x 5/8"	0.36	0.31	0.69	0.70	0.58	0.49	0.50	–	35
DUNE Angled Tegular Fire Guard	24" x 24" x 5/8"	0.32	0.27	0.58	0.71	0.57	0.45	0.50	–	35
DUNE Second Look II	24" x 48" x 3/4"	0.37	0.36	0.65	0.57	0.49	0.37	0.50	–	35
DUNE Square Lay-in	24" x 48" x 5/8"	0.27	0.31	0.69	0.66	0.53	0.42	0.50	–	30
ENDURA Angled Tegular	24" x 24" x 3/4"	0.38	0.34	0.64	0.66	0.94	1.00	0.70	–	35
FINE FISSURED Beveled Tile	12" x 12" x 3/4"	0.34	0.38	0.57	0.87	1.01	1.03	0.65	–	35 <sup>A</sup>
FINE FISSURED Fire Guard	24" x 48" x 5/8"	0.26	0.26	0.48	0.91	0.87	0.73	0.55	–	35
FINE FISSURED High NRC/CAC Square Lay-in	24" x 48" x 3/4"	0.17	0.26	0.81	0.96	0.86	0.86	0.70	–	40
FINE FISSURED High NRC/CAC Angled Tegular	24" x 24" x 3/4"	0.20	0.29	0.71	0.88	0.82	0.82	0.70	–	40
FINE FISSURED Second Look II	24" x 48" x 3/4"	0.35	0.28	0.52	0.70	0.65	0.74	0.55	–	30 <sup>B</sup>
FINE FISSURED Square Lay-in	24" x 48" x 5/8"	0.27	0.27	0.61	0.74	0.75	0.71	0.55	–	35
FISSURED Square Lay-in	24" x 48" x 5/8"	0.23	0.26	0.50	0.75	0.80	0.84	0.55	–	30
FISSURED Square Lay-in Fire Guard	24" x 48" x 5/8"	0.30	0.30	0.64	0.98	0.74	0.56	0.55	–	35
GEORGIAN Square Lay-in	24" x 48" x 5/8"	0.56	0.68	1.26	1.44	1.08	0.84	0.55	–	33
GEORGIAN Beveled Tegular	24" x 24" x 5/8"	0.32	0.29	0.64	0.74	0.58	0.43	0.55	–	35
LATITUDES	24" x 24" x 3/4"	0.24	0.23	0.54	0.92	1.00	1.03	0.65	–	35
MESA Angled Tegular	24" x 24" x 3/4"	0.29	0.34	0.67	0.74	0.66	0.53	0.60	–	35
MESA High CAC Beveled Tegular	24" x 24" x 3/4"	0.20	0.37	0.70	0.74	0.64	0.53	0.60	–	40
NATURAL FISSURED Square Tile	12" x 12" x 3/4"	0.34	0.38	0.57	0.87	1.01	1.03	0.65	–	35
RANDOM FISSURED (Unperforated)	24" x 48" x 5/8"	0.38	0.29	0.25	0.74	0.82	0.67	0.55	–	–
RANDOM FISSURED (Perforated)	24" x 48" x 5/8"	0.62	0.67	0.58	0.82	0.90	0.73	0.70	–	–
SANSERRA Angled Tegular	24" x 24" x 3/4"	0.24	0.23	0.54	0.92	1.00	1.03	0.65	–	35 <sup>A</sup>
SHASTA (Unperforated)	24" x 48" x 5/8"	0.57	0.30	0.27	0.81	0.70	0.68	0.50	–	–
SHASTA (Perforated)	24" x 48" x 5/8"	0.62	0.67	0.58	0.82	0.90	0.73	0.70	–	–
STRATUS	24" x 24" x 3/4"	0.57	0.58	0.64	0.81	0.95	0.96	0.70	–	25
TERRAIN	24" x 24" x 3/4"	0.24	0.23	0.54	0.92	1.00	1.03	0.65	–	37
TUNDRA	24" x 24" x 5/8"	0.27	0.29	0.59	0.70	0.53	0.38	0.50	–	33 <sup>A</sup>
ULTIMA Beveled Tegular	24" x 24" x 3/4"	0.33	0.34	0.71	0.90	0.87	0.87	0.70	–	35
ULTIMA Vector	24" x 24" x 3/4"	0.35	0.34	0.71	0.85	0.84	0.85	0.70	–	33

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		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	ADVERTISED NRC <sup>D</sup>	AC <sup>G</sup>	CAC ADVERTISED MINIMUM <sup>D</sup>
<b>SPECIAL PERFORMANCE CEILINGS</b>										
ARMATUFF	24" x 48" x 5/8"	0.27	0.36	0.74	0.77	0.57	0.43	0.50	–	35
CIRRUS High CAC Angled Tegular	24" x 24" x 7/8"	0.27	0.37	0.70	0.91	0.94	0.96	0.70	–	40
CIRRUS Open Plan	24" x 24" x 7/8"	0.33	0.32	0.75	0.98	1.00	0.97	0.75	180	35
Clean Room MYLAR (Field Units)	24" x 48" x 3/4"	0.37	0.27	0.67	0.92	0.74	0.59	0.55	–	35
CERAMAGUARD FINE FISSURED (Perforated)	24" x 24" x 5/8"	0.24	0.24	0.54	0.84	0.83	0.67	0.55	–	38
FINE FISSURED High NRC/CAC Angled Tegular	24" x 24" x 3/4"	0.20	0.29	0.71	0.88	0.82	0.82	0.70	–	40
FINE FISSURED Open Plan	24" x 24" x 3/4"	0.21	0.35	0.82	0.99	0.99	0.99	0.75	180	35
MESA High CAC Beveled Tegular	24" x 24" x 3/4"	0.20	0.37	0.70	0.74	0.64	0.53	0.60	–	40
OPTIMA Open Plan	24" x 24" x 1"	0.65	0.97	0.82	1.03	1.02	1.03	0.95	190	–
OPTIMA Open Plan CAC Backing	24" x 24" x 1"	0.36	0.57	0.92	1.02	1.08	0.98	0.90	200	26
OPTIMA Open Plan CAC Backing	24" x 48" x 1-1/2"	0.50	0.79	0.90	1.10	1.03	0.98	0.95	210	26
OPTIMA Vector	24" x 24" x 7/8"	0.72	0.81	0.80	0.95	1.03	0.94	0.90	190	–
OPTIMA Vector CAC Backing	24" x 24" x 7/8"	0.51	0.49	0.86	0.92	1.09	1.09	0.80	190	26
PAINTED NUBBY Open Plan	24" x 24" x 3/4"	0.71	0.91	0.69	0.90	1.01	1.07	0.85	180	–
PAINTED NUBBY Open Plan	24" x 24" x 1"	0.65	0.97	0.82	1.03	1.02	1.03	0.95	190	–
PEBBLE	24" x 48" x 5/8"	0.62	0.67	0.58	0.82	0.90	0.73	0.70	–	–
PEBBLE High NRC	24" x 48" x 1"	0.69	0.84	0.73	0.86	0.81	0.72	0.80	–	–
ULTIMA Open Plan Beveled Tegular	24" x 24" x 3/4"	0.30	0.36	0.77	0.93	0.92	0.87	0.75	170	35
VL (Perforated)	24" x 48" x 5/8"	0.29	0.25	0.60	0.84	0.63	0.42	0.55	–	35
<b>ACCENT AND ALTERNATIVE MATERIALS CEILINGS</b>										
GRAPHIS	24" x 24" x 3/4"	0.25	0.14	0.09	0.13	0.15	0.17	0.10	–	30
FILAMENTS – Lido	24" x 24" x 3/4"	0.24	0.36	0.62	0.92	0.72	0.62	0.65	–	35
TINCRAFT	24" x 24" x 3/4"	0.25	0.14	0.09	0.13	0.15	0.17	0.10	–	30
TRACES	24" x 24" x 3/4"	0.24	0.23	0.54	0.92	1.00	1.03	0.65	–	37

**A** = CAC of minimum 40 is available on special order for selected items.

**B** = CAC of minimum 35 is available on selected items.

**C** = Sound absorption test data for specific item tested. Data for most products available upon request.

**D** = NRC and CAC single number ratings comply with new ASTM E 1264 classification requirements. ASTM E 1264 supersedes Federal Specification SS-S-118B obsoleted by the General Service Administration 11/7/89.

**E** = Sound Absorption Data and NRC rating obtained by ASTM procedure C 423, "Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E 795, "Practices for Mounting Test Specimens During Sound Absorption Tests."

**F** = 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 E 1414, "Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedure outlined in ASTM Procedure E 413, "Classification for Determination of Sound Transmission Class."

**G** = AC rating obtained by ASTM procedure ASTM E 1111 "Measuring into Zone Attenuation and Ceiling Systems" and ASTM E 1110 "Determination of Articulation Class."

\*These are representative data for the product family.