

USG ME CEILINGS ACOUSTIC PERFORMANCE

Celebretto® Metal Ceiling Perforation Pattern and Infill Option	Open Area%	NRC	CLASS	CAC dB	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
A1 Pattern with Acoustic fleece	20%	0.75	Class B	-	0.70	0.95	0.75	0.75	0.80	0.80
A1 Pattern with 19mm Soft Fiber infill	20%	0.90	Class A	-	0.65	0.85	0.80	1.00	1.00	1.00
A1 Pattern with 15mm Mineral Fiber infill	20%	-	-	32	-	-	-	-	-	-
A1 Pattern with Acoustic fleece & 30mm Stone Wool & 19mm Mineral Fiber infill	20%	0.90	Class B	32	0.50	0.55	0.85	1.00	1.00	1.00
A1 Pattern with Acoustic fleece & 25mm Glass Wool & 12mm Gypsum infill	20%	0.85	Class C	30	0.55	0.45	0.75	1.00	1.00	1.00
A1 Pattern with Acoustic fleece & 30mm Stone Wool & Aluminum Foil	20%	1.00	Class A	34	0.70	0.90	1.00	1.00	1.00	1.00
B2 Pattern with Acoustic fleece	16%	0.60	Class C	-	0.65	0.75	0.55	0.55	0.60	0.65
15D Pattern with Acoustic fleece	22%	0.60	Class C	-	0.70	0.65	0.55	0.55	0.60	0.55
15D Pattern with Acoustic fleece & 30mm Stone Wool & Aluminum Foil	22%	0.80	Class B	30	0.70	0.85	0.75	0.75	0.80	0.70
15E Pattern with Acoustic fleece	11%	0.65	Class C	-	0.60	0.80	0.60	0.60	0.70	0.70
15E Pattern with Acoustic fleece & 30mm Stone Wool & Aluminum Foil	11%	0.80	Class B	27	0.80	0.80	0.75	0.80	0.85	0.70
7E Pattern with Acoustic fleece	1%	0.65	Class C	-	0.80	0.75	0.65	0.65	0.60	0.50
7E Pattern with Acoustic fleece & 30mm Stone Wool & Aluminum Foil	1%	0.90	Class C	26	0.80	0.85	0.85	0.95	0.85	0.55
A1 Pattern - Intersecto Metal Ceiling with Infill	20%	0.70	Class C	35	0.50	0.60	0.65	0.75	0.70	0.70
A1 Pattern - Paralane Baffles 40X120, C120 with 38mm Soft Fiber infill	20%	0.85	-	-	0.25	0.50	1.00	1.00	1.00	1.00
A1 Pattern - Paralane Baffles 50X100, C100 with 50mm Soft Fiber infill	20%	0.60	Class D	-	0.15	0.35	0.50	0.75	0.70	0.60

Soft Fiber Tile Details	NRC	α_w	CLASS	CAC dB	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Halcyon™ 15mm SQ Edge	0.85	0.80	Class B	-	0.45	0.85	1.00	0.75	0.80	0.75
Halcyon™ 19mm SQ Edge	0.95	0.95	Class A	24	0.50	0.90	1.00	0.90	0.95	0.90
Halcyon™ 19mm Concealed Edge	0.95	0.90	Class A	24	0.65	0.85	0.80	0.95	1.00	1.00
Halcyon™ 25mm SQ Edge	1.00	1.00	Class A	25	0.40	0.90	1.00	0.95	1.00	1.00
Halcyon™ 25mm Concealed Edge	1.00	0.95	Class A	25	0.75	0.85	0.85	1.00	1.00	1.00
Halcyon™ 38mm SQ Edge	1.00	1.00	Class A	31	0.60	0.90	1.00	1.00	1.00	1.00
Halcyon™ 40mm SQ Edge with Aluminum Foil	0.90	0.90	Class A	33	0.40	0.70	0.85	1.00	1.00	1.00
Halcyon™ 50mm SQ Edge	0.95	0.95	Class A	32	0.60	0.75	0.90	1.00	1.00	1.00
Louna™ Elegant 19mm Reveal Edge	0.85	0.85	Class B	27	0.55	0.80	0.75	0.90	1.00	1.00
Louna™ Elegant 19mm SQ Edge	0.90	0.95	Class A	25	0.60	0.85	0.85	0.95	1.00	1.00
Louna™ Elegant 25mm Reveal Edge	0.90	0.90	Class A	28	0.60	0.80	0.80	1.00	1.00	1.00
Louna™ Elegant 25mm SQ Edge	0.95	1.00	Class A	26	0.65	0.95	0.90	1.00	1.00	1.00
Louna™ Elegant 25mm SQ Edge Aluminium Foil	0.90	0.90	Class A	35	0.40	0.70	0.85	1.00	1.00	1.00
Louna™ Elegant 38mm SQ Edge Aluminium Foil	0.85	0.85	Class B	39	0.45	0.65	0.80	0.95	0.95	0.95
Louna™ Natural 15mm	0.90	0.90	Class A	-	0.60	0.85	0.80	0.95	1.00	1.00
Louna™ Natural 19mm	0.95	0.95	Class A	25	0.60	0.90	0.85	1.00	1.00	1.00
Louna™ HI CAC 43mm	0.85	0.80	Class B	42	0.45	0.50	0.85	1.00	1.00	1.00
Louna™ HI CAC 53mm	0.90	0.80	Class B	41	0.40	0.50	0.90	1.00	1.00	1.00
Louna™ Baffle 1800x300x40mm	0.70	0.60	Class C	-	0.20	0.30	0.65	0.90	0.85	0.80

Gypsum Tiles	NRC	α_w	CLASS	CAC dB	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Soundblock Gypsum Ceiling - R6	0.70	0.65	Class C	-	0.55	0.75	0.70	0.65	0.60	0.55
Soundblock Gypsum Ceiling - R6 with 100mm Soft Fiber Infill	0.85	0.55	Class D	-	0.75	0.95	0.95	0.80	0.55	0.40

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Mineral Fiber Tile Details	NRC	α_w	CLASS	CAC dB	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Athena 16mm	0.70	0.65	Class C	35	0.30	0.35	0.65	0.90	1.00	0.95
Athena 19mm HNRC Concealed Edge	0.65	0.65	Class C	40	0.35	0.45	0.80	0.70	0.65	0.50
Auratone Designer Series 19mm QCFSR	0.60	0.60	Class C	35	0.45	0.40	0.50	0.70	0.70	0.60
Auratone Designer Series 19mm QOLPCR	0.65	0.70	Class C	37	0.30	0.45	0.70	0.70	0.70	0.60
Auratone Designer Series 19mm QRDSR	0.60	0.60	Class C	35	0.35	0.40	0.50	0.65	0.80	0.90
Auratone Designer Series 19mm QTPSR	0.70	0.65	Class C	35	0.35	0.40	0.65	0.85	0.85	0.70
Cleanroom™ 15mm Non-Perforated	0.10	0.15	Class E	37	0.35	0.15	0.10	0.10	0.15	0.25
Cleanroom™ 19mm Perforated	0.55	0.60	Class C	38	0.35	0.40	0.65	0.65	0.55	0.50
Cross Fissured 15mm	0.50	-	-	35	0.40	0.35	0.40	0.55	0.70	0.75
Cross Fissured 19mm	0.60	0.60	Class C	37	0.45	0.40	0.50	0.70	0.70	0.60
Favia 15mm	0.25	0.25	Class E	35	0.35	0.25	0.20	0.20	0.30	0.50
Favia Acoustic 16mm HNRC	0.65	0.60	Class C	35	0.30	0.35	0.60	0.80	0.90	0.85
Favia Acoustic 19mm	0.55	0.55	Class D	37	0.35	0.35	0.45	0.70	0.75	0.65
Glacier™ 19mm	0.65	-	-	35	0.36	0.26	0.55	0.99	1.02	1.02
Olympia Micro™ 15mm ClimaPlus™	0.55	0.55	Class D	35	0.35	0.35	0.50	0.65	0.60	0.50
Olympia Micro™ 19mm	0.65	0.70	Class C	37	0.30	0.45	0.70	0.70	0.70	0.60
Olympia Micro™ 19mm HNRC	0.70	0.75	Class C	37	0.45	0.50	0.75	0.85	0.80	0.65
Olympia™ 15mm ClimaPlus™	0.15	0.20	Class E	33	0.35	0.25	0.15	0.15	0.20	0.30
Radar™ 12mm	0.50	0.50	Class D	35	0.30	0.30	0.40	0.45	0.75	0.85
Radar™ 15mm ClimaPlus™	0.50	0.55	Class D	36	0.40	0.35	0.45	0.60	0.70	0.70
Radar™ 19mm Firechief	0.60	0.55	Class D	38	0.30	0.35	0.50	0.75	0.80	0.75
Radar™ 19mm HNRC	0.70	0.65	Class C	40	0.25	0.35	0.65	0.85	0.90	0.90
Radar™ 19mm Standard	0.60	0.60	Class C	38	0.35	0.40	0.50	0.65	0.80	0.90
Radar™ 22mm	0.80	0.75	Class C	39	0.35	0.50	0.75	0.95	1.00	0.90
Radar™ Ceramic 15mm	0.50	-	-	39	0.35	0.28	0.38	0.60	0.76	0.77
Skylite Acoustic 19mm	0.70	0.65	Class C	39	0.30	0.35	0.65	0.90	0.95	0.70
Skylite Clean 15mm	0.60	0.50	Class D	38	0.30	0.30	0.40	0.70	0.95	0.65
Skylite Clean 19mm	0.85	0.85	Class B	31	0.50	0.65	0.85	1.00	0.90	0.65
Sonata 19mm	0.75	0.65	Class C	37	0.40	0.40	0.65	0.95	1.00	1.00
Sonata 22mm	0.80	0.75	Class C	40	0.45	0.45	0.75	0.95	1.00	1.00
Sonata Healthcare 19mm	0.75	0.65	Class C	37	0.40	0.40	0.65	0.95	1.00	1.00
Sonata Healthcare 22mm	0.80	0.75	Class C	40	0.45	0.45	0.75	0.95	1.00	1.00
Taiga 15mm	0.15	0.15	Class E	33	0.35	0.25	0.10	0.15	0.20	0.45
Taiga 19mm - Chessboard Design	0.30	0.30	Class D	35	0.30	0.25	0.25	0.30	0.40	0.60
Taiga 19mm - Comet Line Design	0.30	0.30	Class D	35	0.25	0.25	0.25	0.30	0.35	0.50
Taiga Hygiene 15mm	0.15	0.15	Class E	33	0.35	0.25	0.10	0.15	0.20	0.45
Taiga Perforated 12mm	0.50	0.50	Class D	35	0.25	0.30	0.40	0.55	0.65	0.70
Taiga Perforated 15mm	0.45	0.50	Class D	35	0.35	0.40	0.40	0.55	0.55	0.55
Taiga Perforated 16mm HNRC	0.70	0.60	Class C	37	0.30	0.35	0.70	0.90	0.85	0.75
Taiga Perforated 19mm	0.70	0.65	Class C	37	0.35	0.40	0.65	0.85	0.85	0.70
Skyneest™ Wood Wool	NRC	α_w	CLASS	CAC dB	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Skyneest™ Wood Wool 15mm	0.60	0.55	Class D	-	0.55	0.60	0.45	0.60	0.70	0.75
Skyneest™ Wood Wool 15mm with Acoustical Infill	1.00	1.00	Class A	-	0.80	1.00	1.00	1.00	1.00	1.00
Skyneest™ Wood Wool 25mm	0.65	0.65	Class C	-	0.60	0.60	0.55	0.65	0.85	0.95
Skyneest™ Wood Wool 25mm with Acoustical Infill	1.00	1.00	Class A	-	0.85	1.00	1.00	1.00	1.00	1.00