

LETTER OF CONFORMITY

SOUND ABSORPTION COEFFICIENTS FOR RIGITONE AND GYPTONE CEILING TILES

Acoustic performance of the system is dependent upon plenum depth, insulation, framework, etc. Actual performance may vary from the figures provided.

Rigitone

Rigitone	Perforated area [%]	Plenum depth [mm]	Mineral wool	practical sound absorption coefficient α_p						weighted sound absorption coefficient α_w	Sound absorption class	NRC	Report Reference	PSR reference
				125	250	500	1000	2000	4000					
6/18	8.70	50		0.15	0.35	0.70	0.75	0.55	0.45	0.55	D	0.60	RIGA001	C10A118
6/18		200		0.30	0.70	0.75	0.60	0.45	0.30	0.45 (LM)	D	0.60	RIGA003	C10A120
6/18		200	50mm		0.55	0.80	0.80	0.70	0.50	0.30	0.50 (LM)	D	0.70	RIGA002
12/25	18.10	50		0.05	0.25	0.65	0.85	0.65	0.50	0.55 (M)	D	0.60	RIGA010	C10A127
12/25		200		0.35	0.75	0.90	0.65	0.55	0.40	0.55 (LM)	D	0.70	RIGA012	C10A129
12/25		200	50mm		0.55	0.95	0.95	0.85	0.70	0.50	0.70 (LM)	C	0.85	RIGA011
8-12/50	13.10	50		0.15	0.35	0.70	0.80	0.50	0.40	0.55 (M)	D	0.60	RIGA004	C10A121
8-12/50		200		0.40	0.60	0.75	0.60	0.45	0.40	0.50 (LM)	D	0.60	RIGA006	C10A123
8-12/50		200	20mm		0.45	0.70	0.75	0.70	0.60	0.45	0.60 (L)	C	0.75	RIGA005
8/18 Q	19.80	50		0.15	0.25	0.60	0.85	0.65	0.50	0.55 (M)	D	0.60	RIGA008	C10A125
8/18 Q		200		0.40	0.65	0.80	0.60	0.55	0.50	0.60	C	0.65	RIGA007	C10A124
8/18 Q		200	20mm		0.40	0.70	0.85	0.80	0.80	0.70	0.80	B	0.80	RIGA009
12/25 Q	23.00	50		0.10	0.30	0.65	0.90	0.80	0.60	0.60 (M)	C	0.65	RIGA014	C10A131
12/25 Q		200		0.35	0.75	0.90	0.70	0.65	0.50	0.65 (LM)	C	0.75	RIGA013	C10A130
12/25 Q		200	50mm		0.55	0.90	0.95	0.85	0.85	0.65	0.85 (L)	B	0.90	RIGA015

Tested in accordance to European standards DIN EN 20354 (07/1993) and classified in accordance to DIN EN ISO 11654 (07/1997)

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Gyptone

Gyptone	Plenum depth [mm]	Mineral wool	practical sound absorption coefficient α_p						weighted sound absorption coefficient α_w	Sound absorption class	NRC	Report Reference	PSR reference
			125	250	500	1000	2000	4000					
Quattro 50 ¹	200		0.50	0.60	0.65	0.60	0.65	0.70	0.65	C	0.65	BTC3378A	C10A109
Line 5 ²	45		0.15	0.40	0.75	0.65	0.45	0.35	0.40	D	0.60	BTC2901A	C10A112
Line 5 ²	200		0.50	0.70	0.75	0.50	0.40	0.35	0.45	D	0.60	BTC2903A	C10A113
Quattro 42	45		0.20	0.40	0.60	0.60	0.45	0.40	0.50	D	0.55	BTC3060A	C10A110
Quattro 42	187		0.45	0.60	0.65	0.50	0.45	0.35	0.50	D	0.55	BTC3055A	C10A111
Sixto 63	58		0.15	0.35	0.60	0.65	0.60	0.50	0.60	C	0.60	GYP001	C10A114
Sixto 63	200		0.35	0.60	0.70	0.60	0.55	0.55	0.60	C	0.60	GYP002	C10A115
Sixto 65	45		0.15	0.40	0.65	0.70	0.70	0.60	0.60	C	0.65	GYP003	C10A116
Sixto 65	200		0.35	0.65	0.75	0.65	0.65	0.60	0.70	C	0.65	GYP004	C10A117

¹ Quattro 50 has the same perforated area as Quattro 20 and therefore the same acoustic performance

² An assumption has been made by the supplier that as Line 6 has a lower performance than Line 5 due to a difference in perforated area, therefore the same test results can be used for both products.

Tested in accordance to European standards BS EN 20354:1993 and ISO 354:1985/EN ISO 354:2003 and classified in accordance to ASTM C423-90a 1992/EN ISO 11654:1997

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