

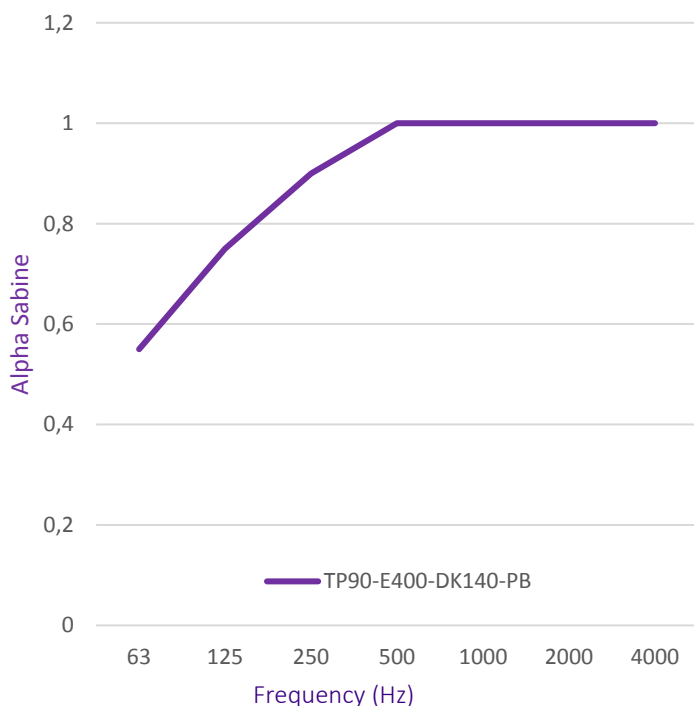
SYSTEM COMPOSITION

- | | |
|---|------------------------------------|
| 1. Perforated tray 90/500 0,75 mm | 7. Sigma purlins 140mm |
| 2. Glasswool 90 mm 15 kg/m ³ | 8. Corrugated steel sheet 10/10 |
| 3. Polyethylene vapor barrier | 9. Particle board CTBH P5 22 mm |
| 4. Felt insulation bardage 100mm 15 kg/m ³ | 10. Acoustic panel Phonotech DK140 |
| 5. Felt insulation bardage 80mm 15 kg/m ³ | 11. Particle board CTBH P5 22 mm * |
| 6. Cleat spacer 400 mm | |

* : System tested without sealing (sealing of your choice: this material provides you an additional acoustic performance to this complex)

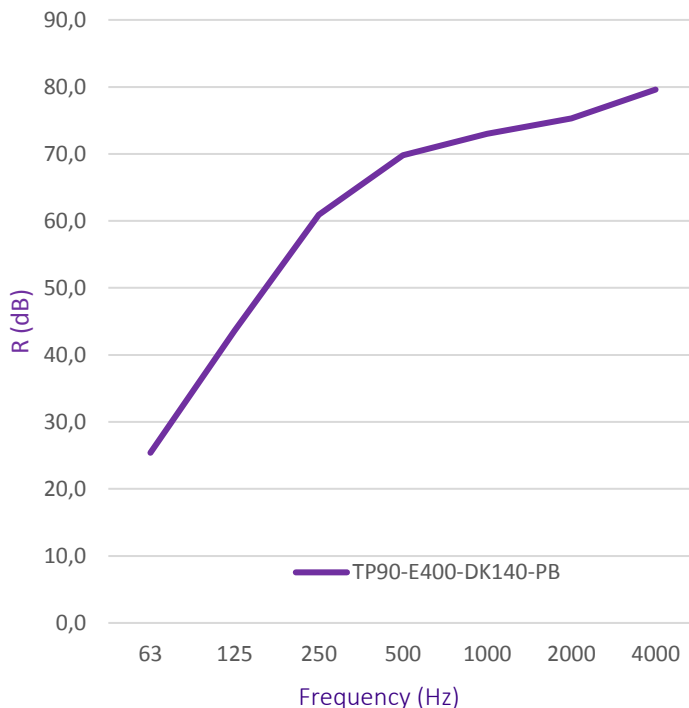
Absorption

$\alpha_w = 1,00$



Insulation

$R_w(C; C_{tr}) = 70(-4; -12) \text{ dB}$



α_p per frequency (Hz)

Frequency (Hz)	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
α_p per frequency third	0,42	0,83	0,47	0,79	0,66	0,76	0,98	0,82	0,96	1,18	1,16	1,10	1,06	1,02	1,00	1,02	1,02	1,00	0,95	0,91	0,86
Frequency (Hz)	62			125			250			500			1000			2000			4000		
α_p per frequency	0,55			0,75			0,90			1,00			1,00			1,00			1,00		

R (dB) per frequency (Hz)

Frequency (Hz)	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
R (dB) per frequency third	21,2	33,3	32,8	39,7	47,2	54,2	58,5	62,4	63,3	66,9	71,2	74,5	75,1	72,3	72,2	73,7	75,4	77,7	79,7	81,1	78,4
Frequency (Hz)	62			125			250			500			1000			2000			4000		
R (dB) per frequency	25,4			43,6			60,9			69,8			73,0			75,3			79,6		

System	Insulation			α_w	Thermal R (m ² .K/W)	U (W/m ² .K)	Weight (kg/m ²)	Thickness (mm)	Test Report
	R _w (dB)	R _A (dB)	R _{A,tr} (dB)						
TP90-E400-DK140-PB	70	66	58	1,00	11,41	0,09	80,40	662	CEDIA (06/2020)

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