

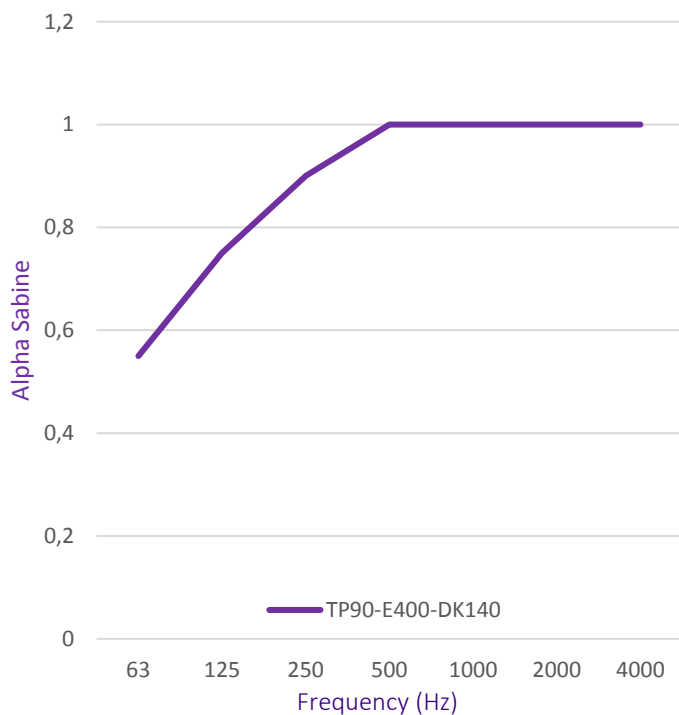
## SYSTEM COMPOSITION

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

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

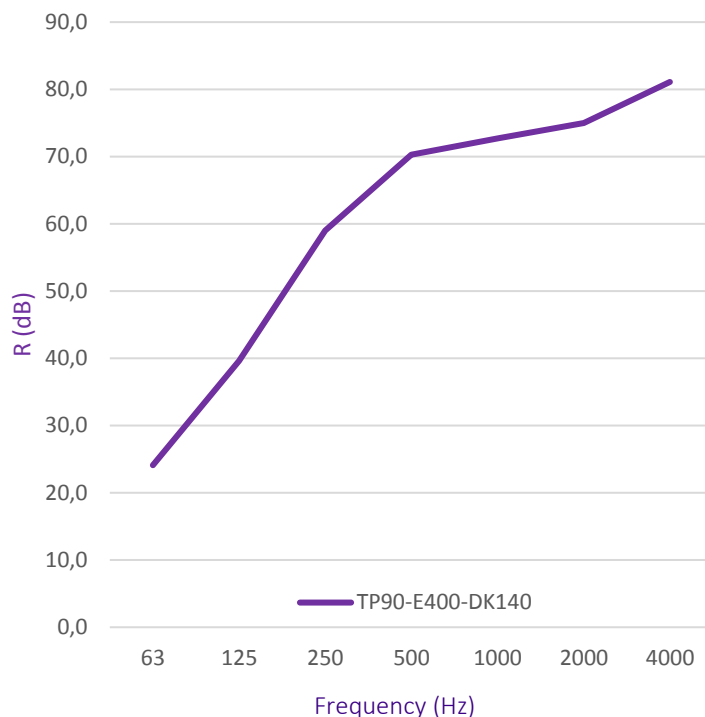
## Absorption

$\alpha_w = 1,00$



## Insulation

$R_w (C; C_{tr}) = 68 (-4 ; -13) \text{ dB}$



### $\alpha_p$ 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
$\alpha_p$ 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)	63			125			250			500			1000			2000			4000		
$\alpha_p$ 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	23,4	25,6	23,5	35,3	45,4	50,7	56,7	59,9	62,1	67,4	72,1	74,2	74,6	72,5	71,6	73,1	75,5	77,5	79,8	82,7	81,3
Frequency (Hz)	63			125			250			500			1000			2000			4000		
R (dB) per frequency	24,1			39,6			59,0			70,3			72,7			75,0			81,1		

System	Sound insulation			$\alpha_w$	Weight (kg/m <sup>2</sup> )	Thickness (mm)	Test Report
	R <sub>w</sub> (dB)	R <sub>A</sub> (dB)	R <sub>A,tr</sub> (dB)				
TP90-E400-DK140	68	62	55	1,00	63,40	640	CEDIA (06/2020)

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