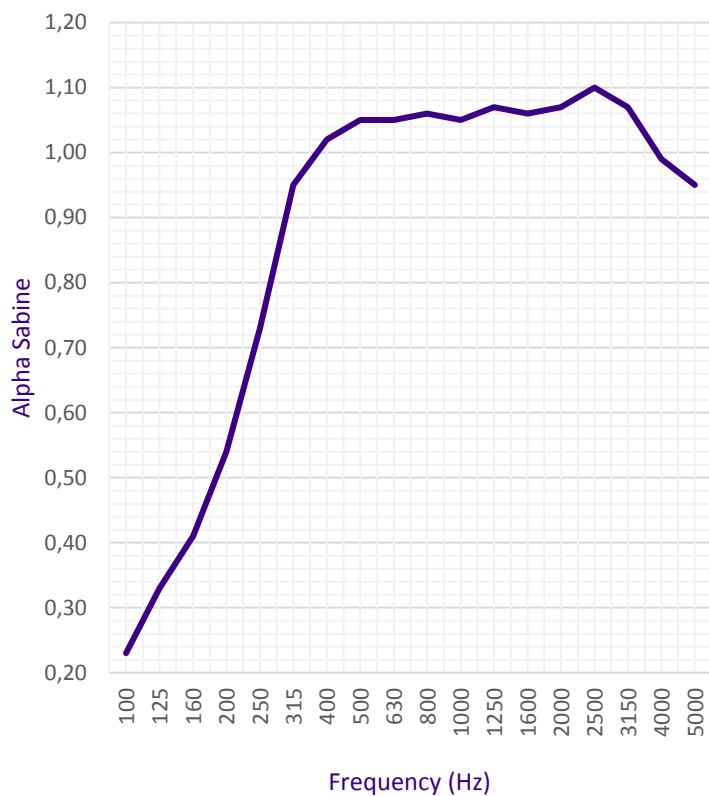


SYSTEM COMPOSITION

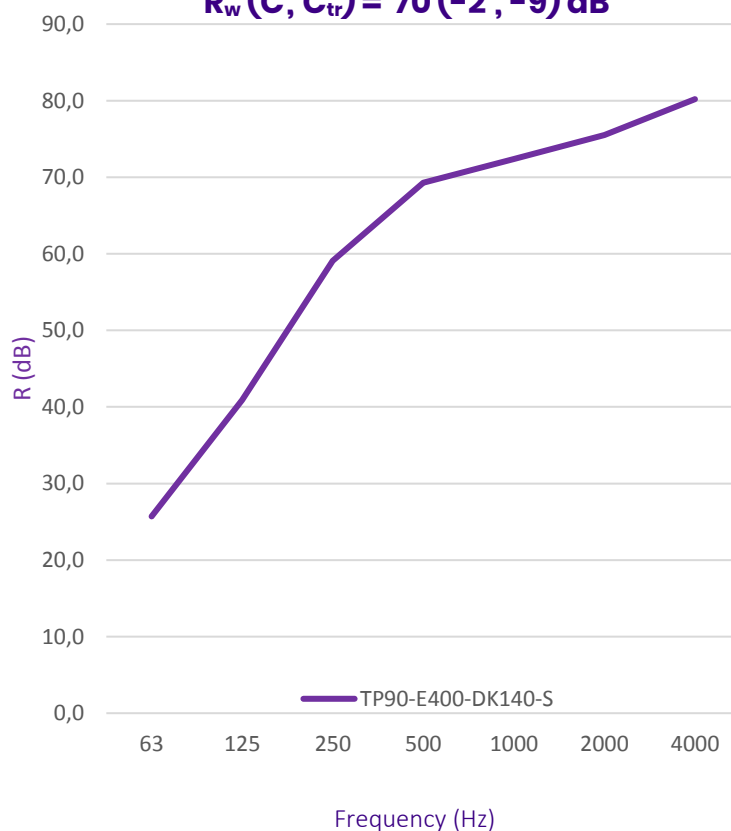
- | | |
|---|--------------------------------------|
| 1. Perforated tray 90/500 0,75 mm | 6. Cleat spacer 400mm |
| 2. Glasswool 90 mm 15 kg/m ³ | 7. Sigma purlins 140mm |
| 3. Particle board CTBH P5 22 mm | 8. Corrugated steel sheet 10/10 |
| 4. Bitumen vapor barrier | 9. Particle board CTBH P5 22 mm |
| 5. Stonewool 200mm 40 kg/m ³ | 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

 $R_w (C; C_{tr}) = 70 (-2; -9) \text{ dB}$


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	30,7	35,0	37,4	43,9	49,5	52,3	58,8	61,4	63,3	66,6	72,1	75,0	74,1	71,7	72,8	73,8	76,2	78,6	80,3	83,0	81,9
Frequency (Hz)	63			125			250			500			1000			2000			4000		
R (dB) per frequency	33,5			47,1			60,8			69,8			72,8			75,8			81,6		

α_p per frequency (Hz)

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,30	0,75	1,00	1,00	1,00	1,00

System	Sound insulation			α_w	Weight (kg/m ²)	Thickness (mm)	Test Report
	R _w (dB)	R _A (dB)	R _{A,tr} (dB)				
TP90PB-E400-DK140	70	68	61	1,00	87,60	640	CEDIA (06/2020)

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