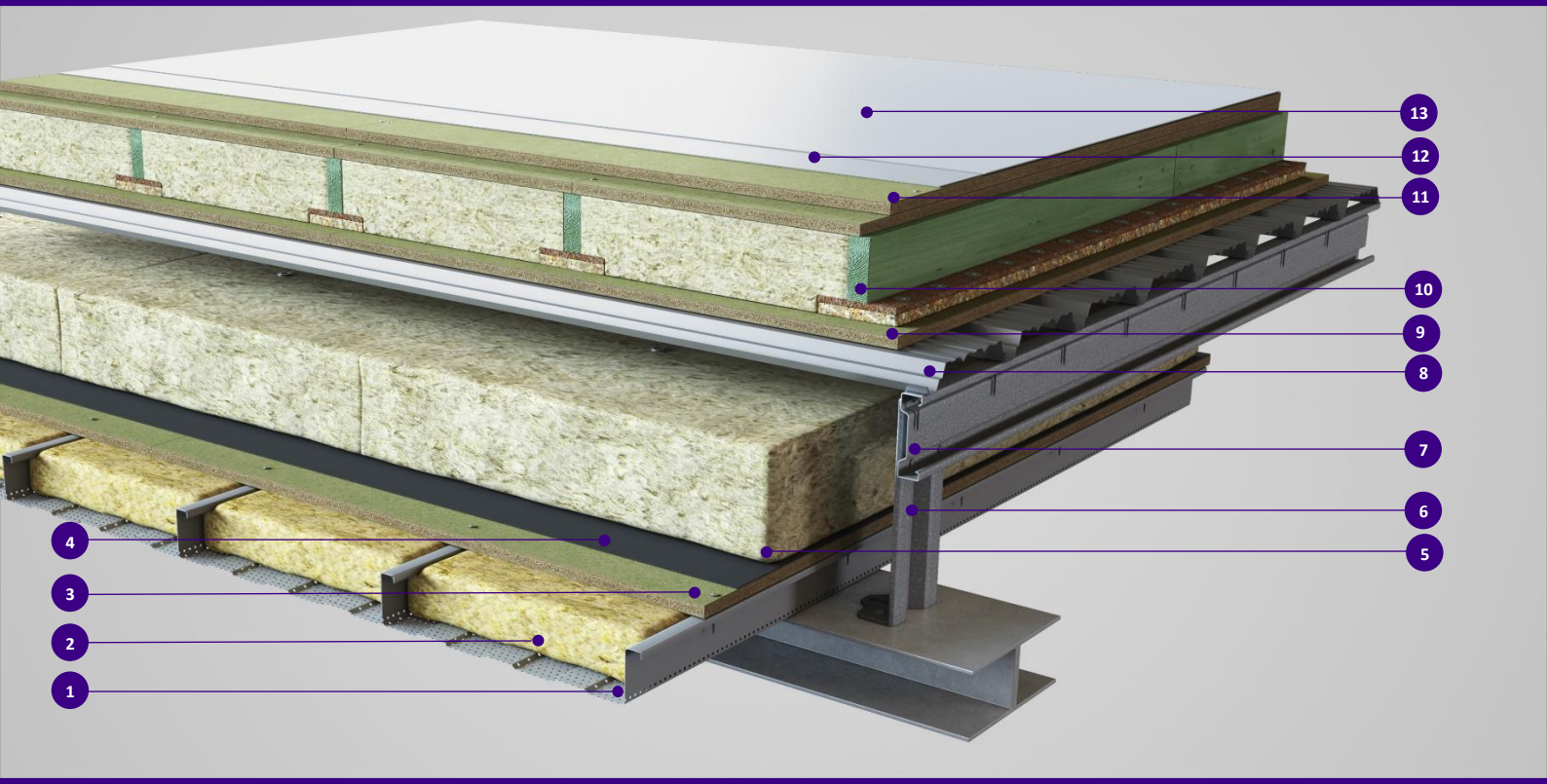
phonotech®
Sound insulation

System TP90PB-E400-DK140-PBS

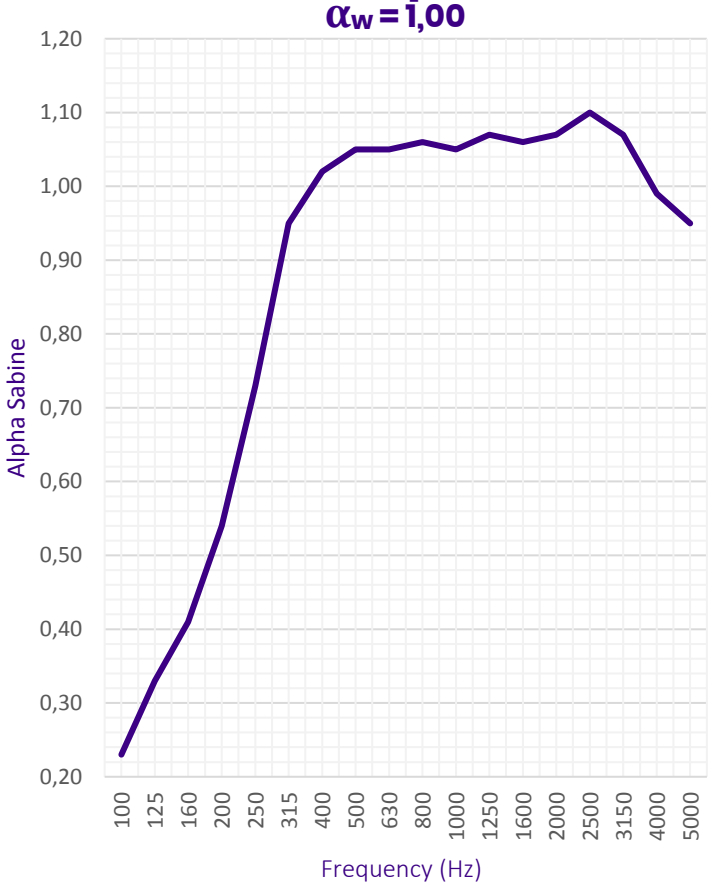


SYSTEM COMPOSITION

1. Perforated tray 90/500 0,75 mm
2. Glasswool 90 mm 15 kg/m³
3. Particle board CTBH P5 22 mm
4. Bitumen vapor barrier
5. Stonewool 200mm 40 kg/m³
6. Cleat spacer 400mm
7. Sigma purlins 140mm
8. Corrugated steel sheet 10/10
9. Particle board CTBH P5 22 mm
10. Acoustic panel Phonotech DK140
11. Particle board CTBH P5 22 mm
12. Geotextile
13. PVC membrane 12G

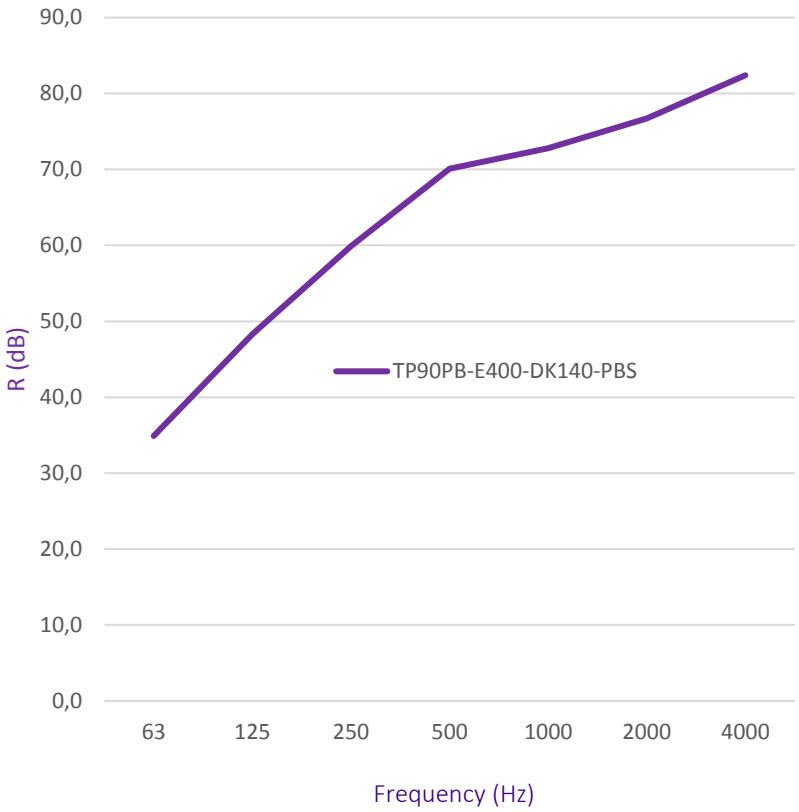
Absorption

$\alpha_w = 1{,}00$



Insulation

$R_w (C; C_{tr}) = 70 (-2 ; -8)$ 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	30,6	41,6	44,4	44,8	51,7	53,5	57,3	61,3	63,0	67,1	72,1	74,6	74,0	72,0	72,5	74,6	77,3	79,4	81,0	83,6	83,0
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		

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	Thermal R (m^2.K/W)	U (W/m^2.K)	Weight (kg/m^2)	Thickness (mm)	Test Report
	Rw (dB)	RA (dB)	RA,tr (dB)						
TP90PB-E400-DK140-PBS	70	68	62	1,00	12,06	0,08	104,1	665	CEDIA (06/2020)

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