

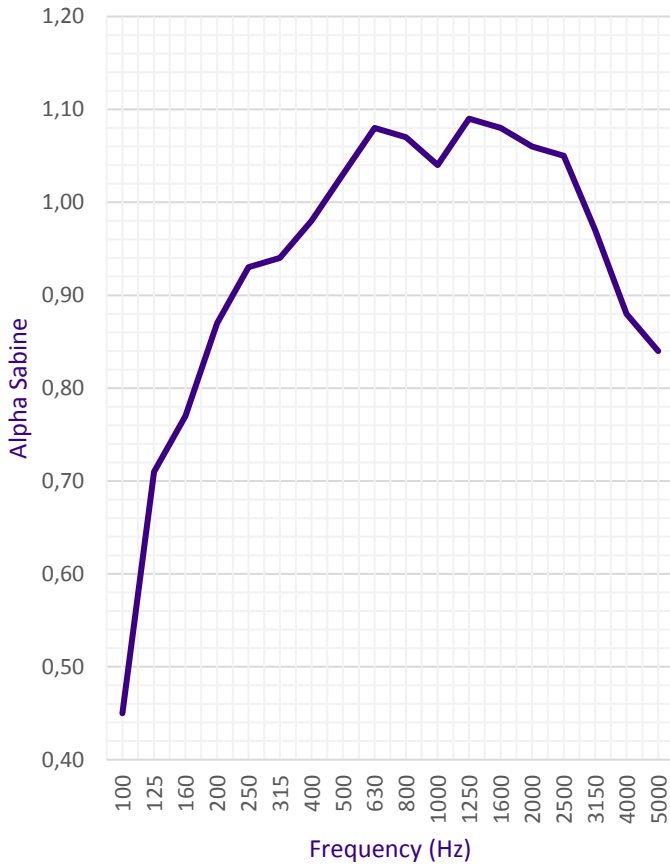
SYSTEM COMPOSITION

1. Perforated tray 90/500 th. 0,75 mm
2. Glasswool th. 30 mm
3. Stonewool th. 100mm
4. Particle board CTBH P5 22 mm
5. Bitumen vapor barrier
6. Acoustic Phono-Pad & Phono-Washer
7. Stonewool 200mm 40kg/m³
8. Steel pole
9. Second steel structure
10. Corrugated steel sheet th. 1 mm
11. Particle board CTBH P5 th. 22 mm
12. Acoustic panel Phonotech DK140
13. Particle board CTBH P5 th. 22 mm
14. PVC membrane 12G *
15. Stonewool 50 mm *
16. Kalzip system *

* The layers from 14 to 16 were not present for the acoustic tests and therefore are not included in the acoustic, thermal and physical data presented on page 2

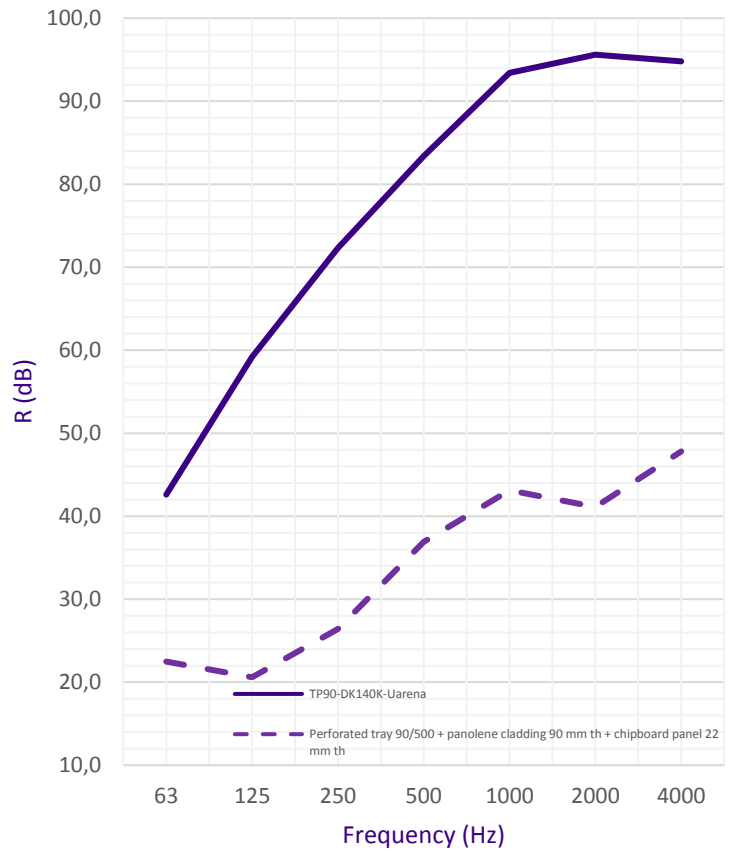
Absorption

$\alpha_w = 1,00$



Insulation

$R_w (C; C_{tr}) = 83 (-2; -9) \text{ dB}$



α_p per octave band (Hz)

Frequency (Hz)	125	250	500	1000	2000	4000
α_p	0,64	0,91	1,03	1,07	1,06	0,90

R (dB) per octave band (Hz)

Frequency (Hz)	63	125	250	500	1000	2000	4000
R (dB)	42,6	59,2	72,3	83,4	93,4	95,6	94,8

System	Sound reduction			Thermal R (m ² .K/W)	U (W/m ² .K)	Weight (kg/m ²)	Thickness (mm)	PV
	R _w (dB)	R _A (dB)	R _{A,tr} (dB)					
TP90-DK140-UArena	83	81	74	13,86	0,07	116,00	1170	CSTB (11/15)

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