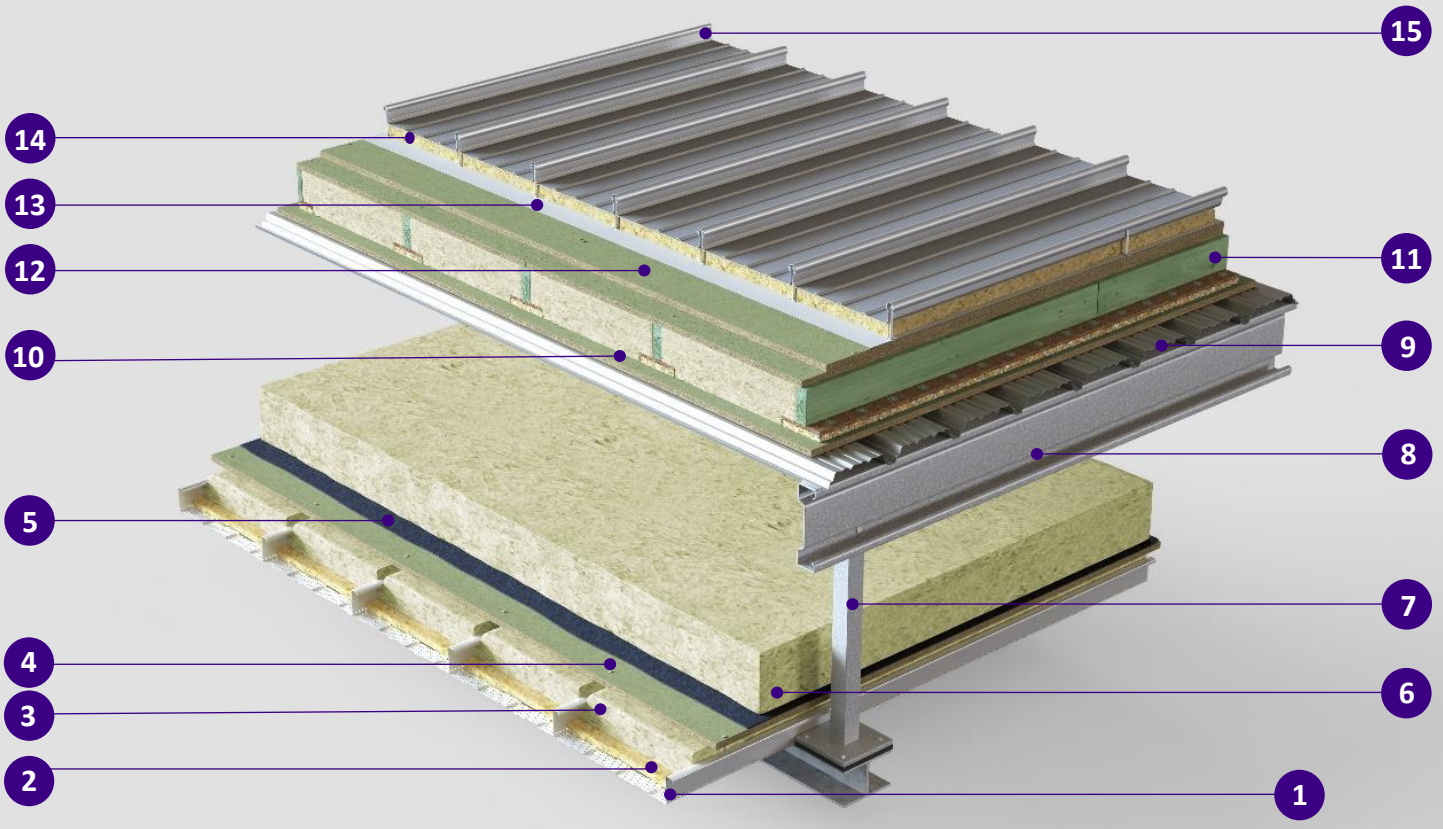
phonotech®
Sound insulation

TP90-DK140-UArena System



SYSTEM COMPOSITION

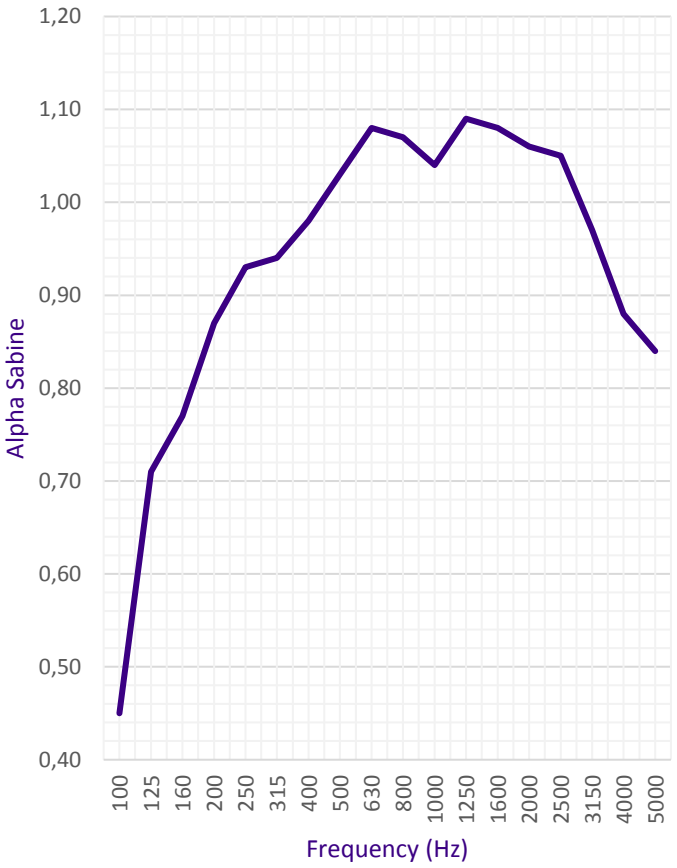
1. Perforated tray 90/500 th. 0,75 mm
2. Glasswool th. 30 mm
3. Stonewool th. 100mm
4. Particle board CTBH P5 22 mm
5. Bitumen vapor barrier
6. Stonewool 200mm 40kg/m³
7. Steel pole
8. Second steel structure
9. Corrugated steel sheet th. 1 mm
10. Particle board CTBH P5 th. 22 mm
11. Acoustic panel Phonotech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

* The layers from 13 to 15 were not present for the acoustic tests and therefore are not included in the acoustic, thermal and physical datas presented on page 2

TP90-DK140-UArena System

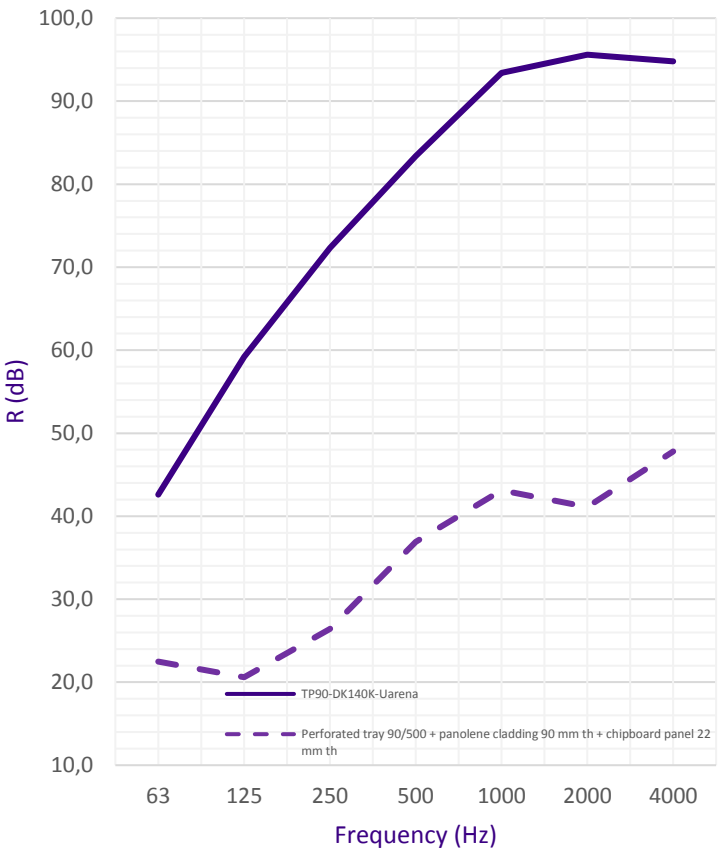
Absorption

$\alpha_w = 1{,}00$



Insulation

$R_w (C; C_{tr}) = 83 (-2 ; -9)$ 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			α_w	Weight (kg/m²)	Thickness (Mm)	PV
	Rw (dB)	RA (dB)	RA,tr(dB)				
TP90-DK140-UArena	83	81	74	1,00	135,00	1400	CSTB (11/15)

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