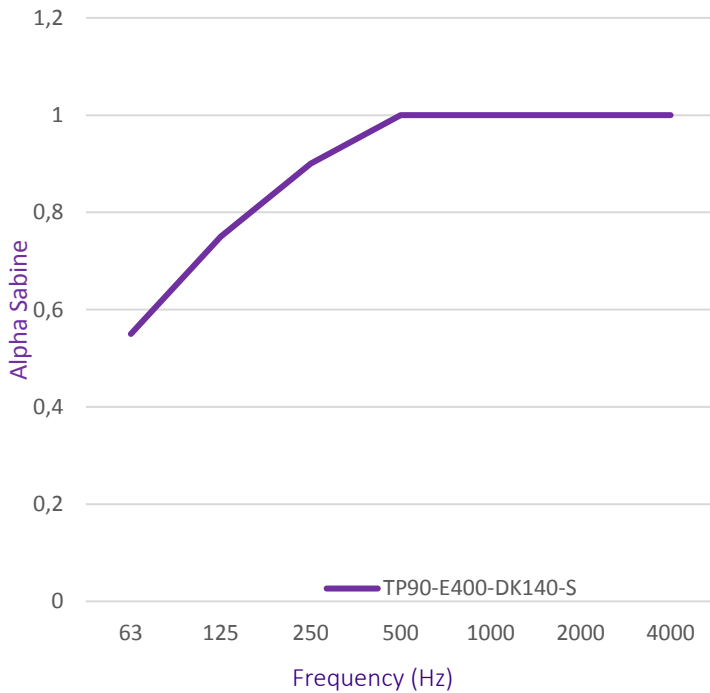


SYSTEM COMPOSITION

- | | |
|---|------------------------------------|
| 1. Perforated tray 90/500 0,75 mm | 7. Sigma purlins 140mm |
| 2. Glasswool 90 mm 15 kg/m ³ | 8. Corrugated steel sheet 10/10 |
| 3. Polyethylene vapor barrier | 9. Particle board CTBH P5 22 mm |
| 4. Felt insulation bardage 100mm 15 kg/m ³ | 10. Acoustic panel Phonotech DK140 |
| 5. Felt insulation bardage 80mm 15 kg/m ³ | 11. Geotextile |
| 6. Cleat spacer 400mm | 12. PVC membrane 15 G |

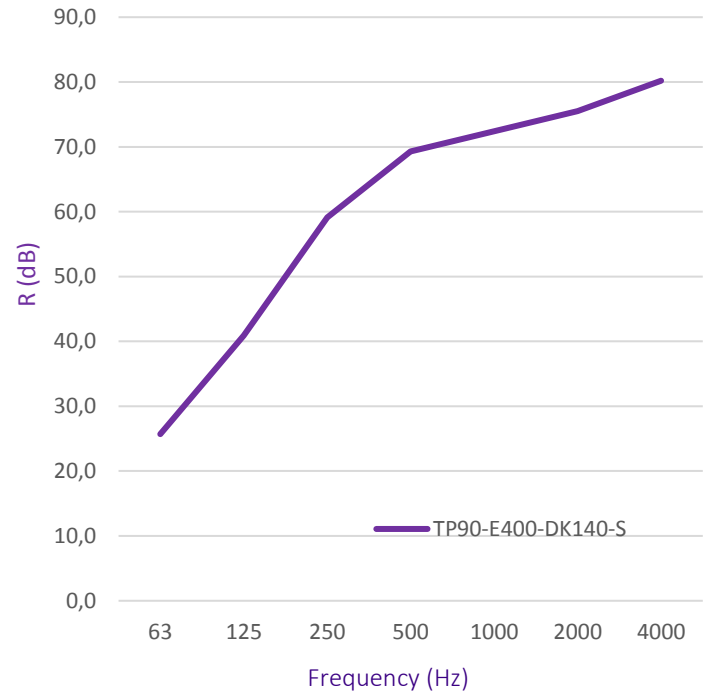
Absorption

$\alpha_w = 1,00$



Insulation

$R_w (C; C_{tr}) = 68 (-5 ; -12) \text{ dB}$



α_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 |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| α_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 | | |
| α_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 | 22,7 | 29,2 | 28,0 | 36,9 | 44,7 | 51,8 | 56,6 | 60,5 | 61,9 | 66,5 | 70,9 | 73,5 | 74,4 | 71,8 | 71,5 | 73,7 | 75,8 | 78,1 | 80,0 | 81,8 | 79,3 |
| Frequency (Hz) | 63 | | | 125 | | | 250 | | | 500 | | | 1000 | | | 2000 | | | 4000 | | |
| R (dB) per frequency | 25,7 | | | 40,9 | | | 59,1 | | | 69,3 | | | 72,4 | | | 75,5 | | | 80,2 | | |

| System | Sound insulation | | | α_w | Weight (kg/m ²) | Thickness (mm) | Test Report |
|-------------------|---------------------|---------------------|------------------------|------------|-----------------------------|----------------|-----------------|
| | R _w (dB) | R _A (dB) | R _{A,tr} (dB) | | | | |
| TP90-E400-DK140-S | 68 | 63 | 56 | 1,00 | 68,10 | 643 | CEDIA (06/2020) |

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