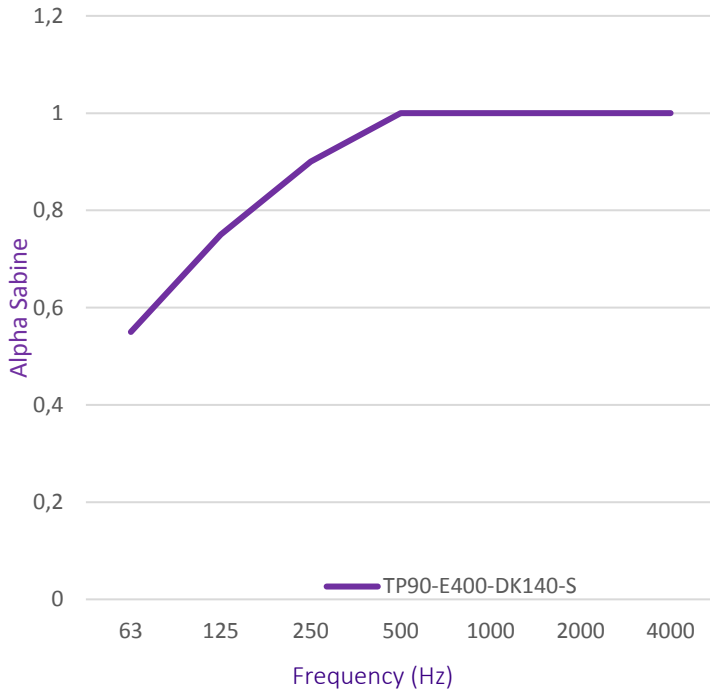


## SYSTEM COMPOSITION

- |   |                                    |
|---|------------------------------------|
| 1. Perforated tray 90/500 0,75 mm                     | 7. Sigma purlins 140mm             |
| 2. Glasswool 90 mm 15 kg/m <sup>3</sup>               | 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 <sup>3</sup> | 10. Acoustic panel Phonotech DK140 |
| 5. Felt insulation bardage 80mm 15 kg/m <sup>3</sup>  | 11. Geotextile                     |
| 6. Cleat spacer 400mm                                 | 12. PVC membrane 15 G              |

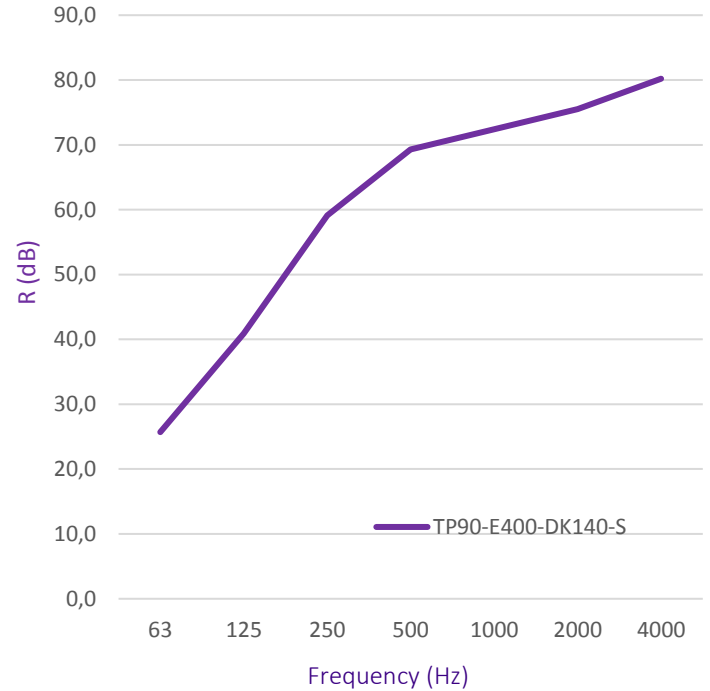
## Absorption

$\alpha_w = 1,00$



## Insulation

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



### $\alpha_p$ 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 |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| $\alpha_p$ 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 |      |      |
| $\alpha_p$ 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    |                     |                        | $\alpha_w$ | Thermal R (m <sup>2</sup> .K/W) | U (W/m <sup>2</sup> .K) | Weight (kg/m <sup>2</sup> ) | Thickness (mm) | Test Report     |
|--------------------------|---------------------|---------------------|------------------------|------------|---------------------------------|-------------------------|-----------------------------|----------------|-----------------|
|                          | R <sub>w</sub> (dB) | R <sub>A</sub> (dB) | R <sub>A,tr</sub> (dB) |            |                                 |                         |                             |                |                 |
| <b>TP90-E400-DK140-S</b> | 68                  | 63                  | 56                     | 1,00       | 11,29                           | 0,09                    | 68,10                       | 643            | CEDIA (06/2020) |