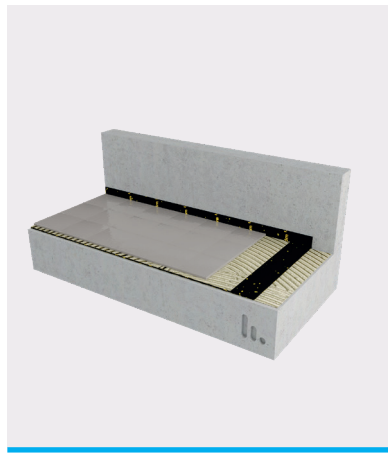


# Stravifloor Mat-F4.5<sub>e</sub> (as underlay) Datasheet



Resilient [acoustic underlayment](#) made of agglomerated recycled SBR (Styrene Butadiene Rubber) with PU (polyurethane) elastomer bonding agent for impact noise insulation for different types of flooring: glued and non-glued flooring.



## SYSTEM COMPONENTS & DIMENSIONS

- Mat dimension: 1 m x 7 m x 4.5 mm
- Pallet information: 35 rolls/pallet - 23 kg/roll
- Pallet size: 1.22 m x 1.15 m x 1.20 m
- Pallet weight: 820 kg



## PHYSICAL & MECHANICAL PROPERTIES

### Physical & Mechanical Properties

|  |   |  |   |
|--|---|--|---|
| <b>Max. total load</b><br>0.1 MPa  | <b>Max. occasional load</b><br>0.25 MPa     | <b>Density<sup>(1)</sup></b><br>880 kg/m <sup>3</sup>              | <b>Surface weight<sup>(1)</sup></b><br>3.96 kg/m <sup>2</sup> (±5%)           |
| <b>Max. dynamic stiffness<sup>(2)</sup></b><br>152 MN/m <sup>3</sup>                     | <b>Squareness<sup>(3)</sup></b><br>≤ 5 mm/m | <b>Compressibility<sup>(4)</sup></b><br>≤ 0.3 mm                   | <b>Compressive stress at 10%, σ<sub>10%</sub><sup>(5)</sup></b><br>≥ 38.7 kPa |
| <b>Max. change of the relative deformation, Δε<sub>1</sub><sup>(6) (7)</sup></b><br>< 5% |   | <b>Resistance to breaking<sup>(8)</sup></b><br>Pass <sup>(9)</sup> |   |

<sup>(1)</sup>ISO 845 - <sup>(2)</sup>ISO 9052-1 & ISO 7626-5 - <sup>(3)</sup>EN 824 - <sup>(4)</sup>EN 12431 - <sup>(5)</sup>EN 826 - <sup>(6)</sup>EN 1605 - <sup>(7)</sup>Δε corresponds to the difference between the relative deformation ε<sub>1</sub> after step A [23 ± 5) °C / (48 ± 1) h] and ε<sub>2</sub> after step B [(70 ± 1) °C / (168 ± 1) h] - <sup>(8)</sup>EN 14499 - <sup>(9)</sup>Cracks longer than 50 mm weren't observed

### Thermal Properties

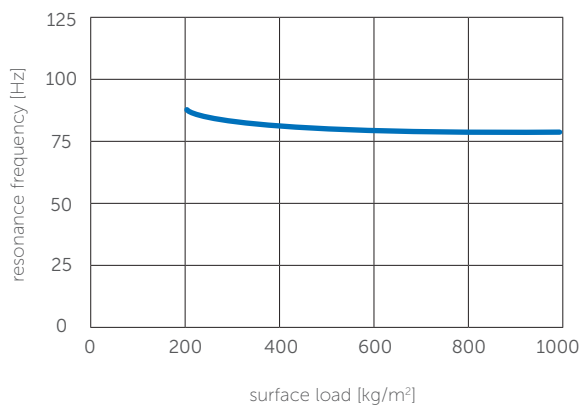
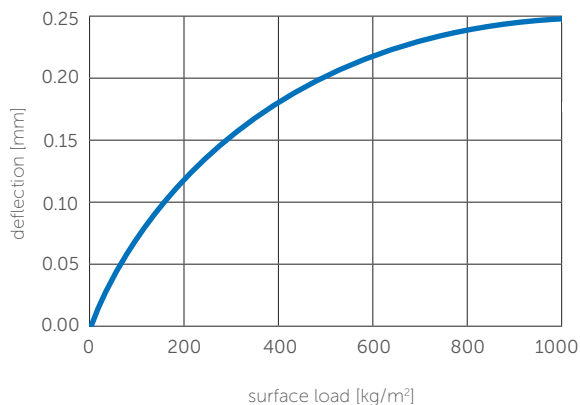
|  |  |   |   |
|--|--|---|---|
| <b>Temperature range</b><br>-30°C / 80°C | <b>Reaction to fire<sup>(1)</sup></b><br>Class E | <b>Thermal conductivity<sup>(2)</sup></b><br>0.1381 W/m°C | <b>Thermal resistance<sup>(2)</sup></b><br>0.33 m <sup>2</sup> °C/W |
|--|--|---|---|

<sup>(1)</sup> ISO 11925-2 & EN 13501-1 - <sup>(2)</sup>EN 12664

#### Notes:

The emission of volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) was assessed according to EN 16516.  
The specific organic compounds polyaromatic hydrocarbons (PAH) and Benzo(a)pyrene (B[a]P) were determined according to AfPS GS 2014:01.  
The content of nitrosamines was determined according DIK-Method: AA-3.3.14 'Analytical method for the determination of N-nitrosamines, version 1, 2022-01'.

Test report available upon request.



## ACOUSTICAL RESULTS

### Test Reports ACL 336/22, ACL 337/22 and ACL 338/22 by Itecons\*

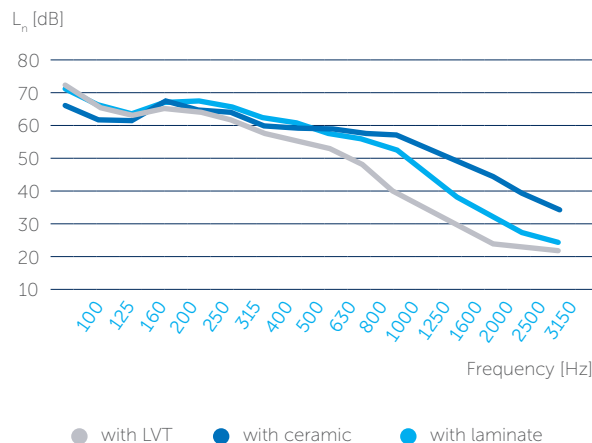
Test setup from bottom to top:

1. Standard reinforced concrete floor (140 mm)
2. Stravifloor Mat-F4.5<sub>e</sub>
3. Floor covering

\*Laboratory report available upon request

|                         | $L_{nw} (C_f)$ | $\Delta L_w (C_f, \Delta)$ |
|-------------------------|----------------|----------------------------|
| bare slab               | 78 (-11)       | -                          |
| with LVT <sup>(1)</sup> | 59 (1)         | 19 (-12)                   |
| with ceramic            | 59 (0)         | 19 (-11)                   |
| with laminate           | 61 (0)         | 17 (-11)                   |

<sup>(1)</sup>Luxury Vinyl Tile



## DISCLAIMER

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