

## NOISEflex® Conso Wall and Ceiling Panel

Noiseflex® Conso wall and ceiling panels are made of an absorber plate in a visible aluminium frame for mounting on walls and ceilings. The surrounding aluminium frame has a construction depth of 35 mm and a visible width of 8 mm. There are two adjustable screw hangers or four suspension eyes on the back of the frame for simple mounting on the wall or suspension from the ceiling. Noiseflex® Conso absorber plates with a thickness of 25 mm are used as a filling. A further absorber plate with a thickness of 25 mm can be fitted on the back in order to increase the absorption characteristics. The hardened surface has an additional use as a pin board. Thus the Noiseflex® Conso wall and ceiling panel becomes a functional design element that can drastically reduce both reverberation time and acoustic levels.

### Use:

As a wall or ceiling panel in

- Offices and administration buildings
- Kindergartens and schools
- Shops and stores
- Call centres
- Banks and insurance offices

### Physical characteristics:

Textile surface made of polyester fibres in white (colourless) and odour neutral. Not soluble in fat or water.

### Standard dimensions:

|                              |                |
|------------------------------|----------------|
| Construction depth of frame: | 35 mm          |
| Thickness of filling:        | 25 mm          |
| (doubled                     | 2 x 25 mm)     |
| Length and width:            | 500 x 1000 mm  |
|                              | 1000 x 1000 mm |
|                              | 1000 x 1500 mm |
|                              | 1000 x 2000 mm |
| Maximum dimensions:          | 1200 x 2400 mm |

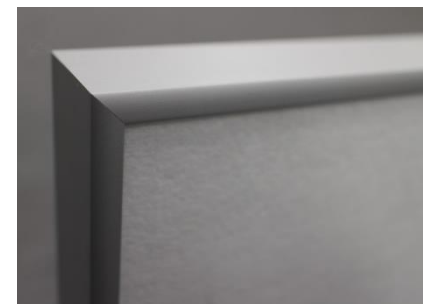
Further dimensions can be provided on request.

### Technical data:

|                      |                        |
|----------------------|------------------------|
| Base material        | 100 % polyester fibres |
| Colour               | white without coating  |
| Density              | 50 kg / m <sup>3</sup> |
| Fire performance     | B1 – low flammability  |
|                      | C-s3, d0               |
| Thermal conductivity | ≥ 0.035 W/m·K          |



View of back side, doubled



View of front side

in accordance with DIN 4102-1  
in accordance with DIN EN 13501-1  
in accordance with DIN EN 12667

Sound absorption of Noiseflex® Conso in reverberation chamber in accordance with DIN EN ISO 354

| Absorption Coefficient $\alpha$ |                          |            |                          |            |
|---------------------------------|--------------------------|------------|--------------------------|------------|
| Frequency [Hz]                  | 25mm smoothed both sides |            | 50mm smoothed both sides |            |
|                                 | Thirds                   | octave     | Thirds                   | octave     |
|                                 | $\alpha_s$               | $\alpha_p$ | $\alpha_s$               | $\alpha_p$ |
| 100                             | 0.05                     | 0.10       | 0.16                     | 0.25       |
| 125                             | 0.08                     |            | 0.19                     |            |
| 160                             | 0.14                     |            | 0.33                     |            |
| 200                             | 0.21                     | 0.30       | 0.52                     | 0.70       |
| 250                             | 0.28                     |            | 0.71                     |            |
| 315                             | 0.40                     |            | 0.81                     |            |
| 400                             | 0.52                     | 0.60       | 0.92                     | 1.00       |
| 500                             | 0.62                     |            | 0.98                     |            |
| 630                             | 0.74                     |            | 1.06                     |            |
| 800                             | 0.80                     | 0.85       | 1.08                     | 1.00       |
| 1000                            | 0.87                     |            | 1.05                     |            |
| 1200                            | 0.93                     |            | 1.06                     |            |
| 1600                            | 0.92                     | 0.90       | 0.98                     | 0.95       |
| 2000                            | 0.91                     |            | 0.93                     |            |
| 2500                            | 0.89                     |            | 0.92                     |            |
| 3150                            | 0.88                     | 0.85       | 0.87                     | 0.90       |
| 4000                            | 0.87                     |            | 0.88                     |            |
| 5000                            | 0.84                     |            | 0.88                     |            |

|  | 25mm smoothed both sides | 50mm smoothed both sides |
|--|--------------------------|--------------------------|
| <b>Weighted sound absorption coefficient <math>\alpha_w</math></b> | 0.60 (M,H)               | 0.95                     |
| <b>Sound absorption class (DIN EN ISO 11654)</b>                   | C                        | A                        |
| <b>Noise Reduction Coefficient NRC (ASTM C 423)</b>                | 0.66                     | 0.91                     |

**Attention! Important Note:**

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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