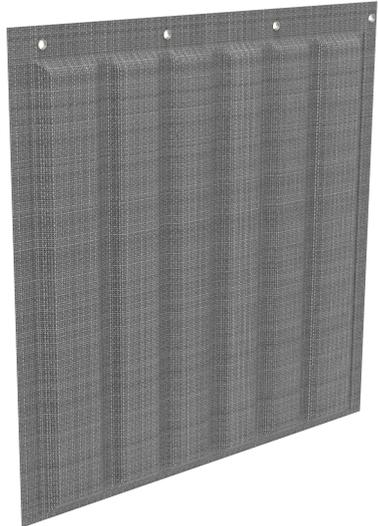


## Cisilent Type E

Flexible mobile or permanent noise protection system

### Product information

| CHARACTERISTICS                         |  | STANDARD   |
|---|--|--|
| Material                                | High-strength, triple-layer polyester fabric. Filled with non-flammable insulation wool. |  |
| Length                                  | Up to 4 m  |  |
| Weight per unit area                    | ≈ 5.5 kg/m <sup>2</sup>  |  |
| Element thickness                       | ≈ 7 cm   |  |
| Weighted sound reduction index          | $R_w(C; C_{tr}) = 21(-1; -4)$ dB   | DIN ISO 10140-2                                      |
| Weighted sound absorption coefficient   | $\alpha_w = 1,00$  | DIN ISO 11654  |
| Sound absorption class                  | A  | DIN ISO 11654  |
| Fire rating                             | Fabric: B1<br>Outer layer: B1<br>Mineral wool filling: A1, non-combustible               | DIN 4102-1<br>DIN 4201-1<br>EN 13501-1<br>DIN 4102-1 |
| Moisture behaviour mineral wool filling | Water-repellent  | DIN 53354  |



### General Information

Cisilent Type E is used to insulate and absorb air-borne sound. The elements are suitable for outdoor use as temporary or permanent noise protection walls or indoors in enclosed spaces.

Their light weight and flexibility unite usage of space and sound insulation to an optimum extent to form a curtain system. Fastened to reflective surfaces, Cisilent suppresses the reflection of acoustic waves. The customer provides the supporting structure. Cisilent can be fitted by screwing through the fastening edge but can also be attached through eyelets or using special stud key fasteners.

Cisilent Type E is also used as a dust protection wall and screening. Two fixture versions are available for installation. The first version features eyelets 16 mm in diameter. The second version is fastened to scaffolding poles using buckle belts. Both fastening systems can bear about 1 kN per support point.

### Components

#### Sound-absorbent surfaces

The fabric layers are coated on both sides with a UV-resistant plastic that remains stable when subjected to heat. The lattice structure in the fabric creates open pores which allows the sound energy to penetrate the filling, thus producing high absorptive capacity in the product.

#### Closed outer layer

The closed outer layer consists of a sturdy polyester fabric coated with plastic, which delivers a high mechanical load-bearing capacity. A coating on both sides protects it against mechanical damage. The material contains a fungicide to provide protection outdoors for the long term. The outer side is sealed with a weldable fluorinated coating.

#### Sound-absorbent filling

The highly absorbing insulation material has optimum strength and fire protection properties. The excellent shape stability and strength are achieved thanks to the high fibre resilience specifically incorporated into the product.

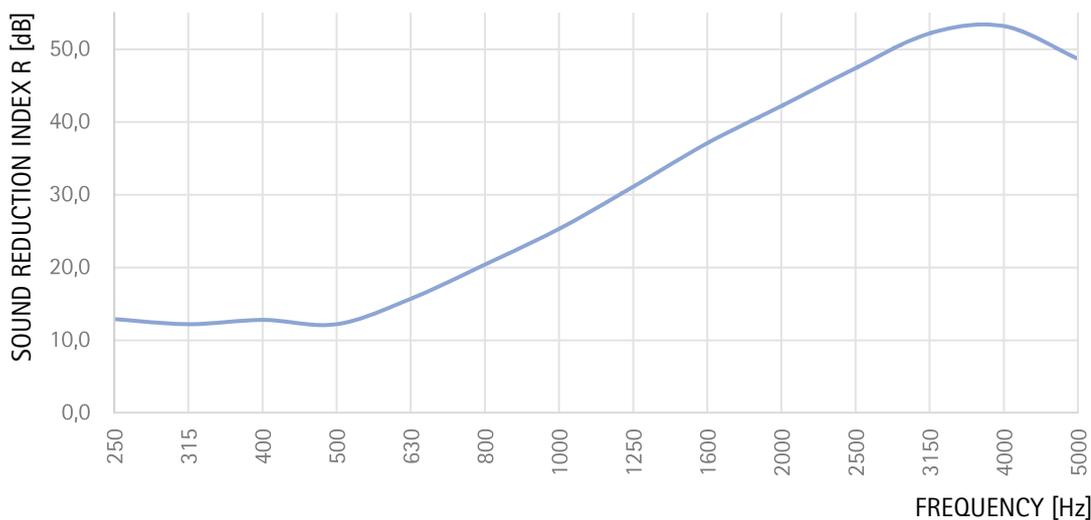
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### Sound insulation (as per ISO 10140-2)

(Extract from TÜV NORD test report SEII/0049/17)

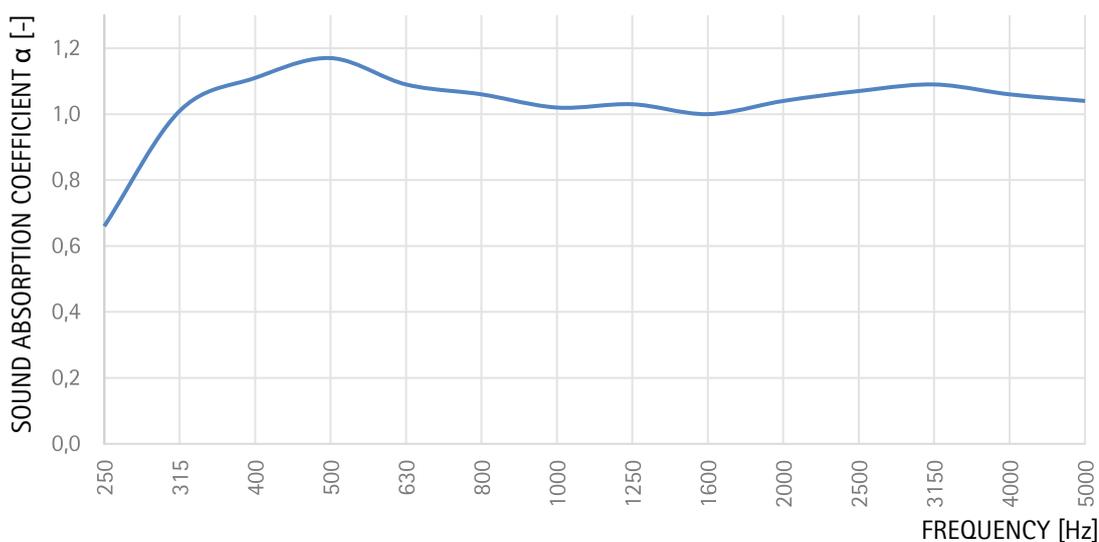
| Frequency [Hz]         | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| R <sub>Terz</sub> [dB] | 12.7 | 12.0 | 12.6 | 12.0 | 15.5 | 20.2 | 25.1 | 30.9 | 36.9 | 42.0 | 47.2 | 52.0 | 53.0 | 48.5 |



### Sound absorption (as per ISO 11654)

(Extract from Müller-BBM M98214/02)

| Frequency [Hz] | 250  | 315  | 400  | 500  | 630  | 800  | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| $\alpha_s$ [-] | 0.66 | 1.01 | 1.11 | 1.17 | 1.09 | 1.06 | 1.02 | 1.03 | 1.00 | 1.04 | 1.07 | 1.09 | 1.06 | 1.04 |



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