

Datasheet

VN Wall



VN Wall - Van Eycken acoustic “wall” cladding is a sound-absorbent wall and tunnel cladding made of a 3D micro-perforated aluminium front panel, a PET and polyester core and an aluminium back panel. All components are assembled in an aluminium frame.

CERTIFICATION AND STANDARDISATION

Van Eycken manufactures and assembles panels and structures in-house according to the EN 1090 standard. Our products are **CE-certified** and comply with the **EN 14388** standard.

ACOUSTIC PROPERTIES

VN Wall uses an innovative, durable solution for sound absorption through **3D microperforations** in the front panel. The microperforations show **no acoustic decay** over time. The acoustic performance ensures that traffic noise is absorbed.

ACOUSTIC DURABILITY

The 3D microperforations are self-cleaning through an internal jet effect. The front panel surface has also been treated with an anti-corrosion coating and can be treated with an optional anti-graffiti and hydrophobic coating. The **double self-cleaning action** promotes acoustic durability.

MECHANICAL DURABILITY

All components are made of durable, UV-resistant, weatherproof and recyclable materials. The components are made of treated aluminium and highly durable plastic. The aluminium frame and mounting system allow for individual expansion to avoid acoustic decay.



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VN Wall

ACOUSTIC PERFORMANCE

Test	Test description	Acoustic performance
EN 1793-1	Diffuse field absorption	DL α = 10 dB

FIRE-RESISTANCE CHARACTERISTICS

The closed aluminium cassettes offer a **high level of fire safety**. The plastic core is highly flame-retardant according to the DIN4102 (analogue EN 13501-1) class B1 standard, which corresponds to the highest class for combustible materials.

INSTALLATION

The panels can be mounted to structures **vertically or horizontally** using system-specific clamping mechanisms. Expert installation ensures optimal acoustic performance. The maximum dimensions of a single panel are $\pm 5 \text{ m (L)} \times 1 \text{ m (H)} \times 67 \text{ mm (D)}$.

