



fecophon

Sound absorbing partition wall system with perforation or slots

Dimensions: Building-specific unit-width and unit-height, wall thickness 105 mm, recommended unit size undivided up to $W \times H = 1.000 \times 3.000$ mm

Cladding: Acoustic panels with perforation or slots: 2 x 19 mm medium-density fibreboard panels (MDF) according to DIN EN 622-5, V20 gluing, formaldehyde emission class E1 (base panel), building material class B2, optional B1, rear acoustic fleece black

Acoustic units with microperforation: 2 x 19 mm sandwich panels made of wooden composite, inset surrounding frame, building material class B2, rear acoustic fleece black

Surfaces: Melamine resin direct-coating according to DIN EN 14322 as per collection, optional CPL/HPL coating material according to DIN EN 438 (standard with micro), real wood veneers or paint finishing

Edges: 1 mm ABS edge all around, same colour as the surface, veneer surface with 1 mm thick veneer edge

Substructure: Galvanized rolled-steel sections, standard uprights with installation openings, full-length steel clips rails on the reverse of the panels, optional uprights with slotted rail for integrated vertical organisation

Insulation: 20/30/40/60 mm mineral wool with high bio-solubility, building material class A1 (incombustible), density approx. 40-50 kg/m³, weighting depending on sound insulation requirement

Connecting profiles: Galvanized U-shaped rolled-steel sections as recessed connecting joints, coated in RAL 7016 anthracite, optional in other RAL colours

Floor connection: Telescopic, integrated negative base height approx. 30-100 mm (80 mm standard)

Ceiling connection: Telescopic, shadow joint approx. 20 mm (up to 80 mm), absorption of standard tolerances and structural movements up to +/- 15 mm, optional higher tolerance absorption

Sound insulation: (see also page 48)

Sound insulation perforation/slot one side	$R_{w,P} = 42-49$ dB
Sound insulation perforation/slot both sides	$R_{w,P} = 37-49$ dB
Sound insulation micro-perforation one side	$R_{w,P} = 42-47$ dB
Sound insulation micro-perforation both sides	$R_{w,P} = 27-47$ dB

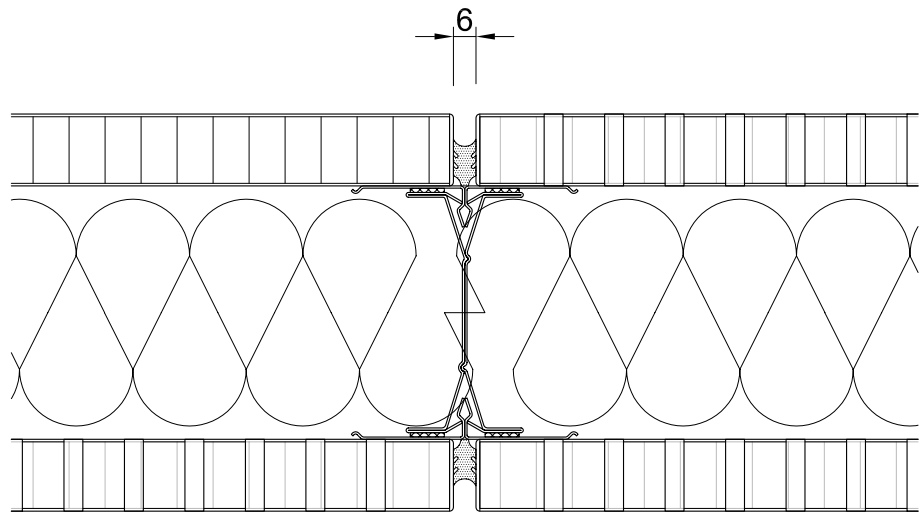
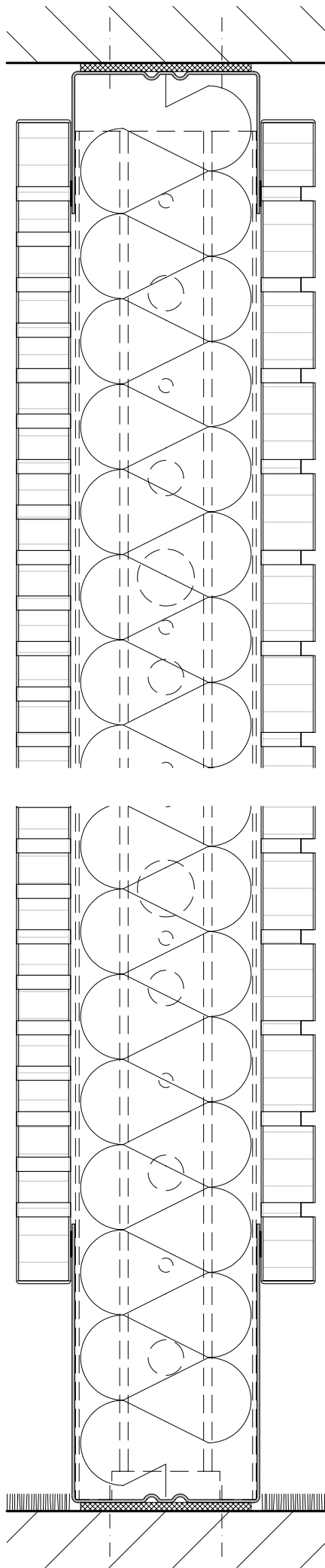
Sound absorption: (see also page 48)

Sound absorption coefficient - perforation 16/16/5	$\alpha_w = 0.50$
Sound absorption coefficient - slot 14/2	$\alpha_w = 0.50$
Sound absorption coefficient - slot 27/5	$\alpha_w = 0.55$
Sound absorption coefficient - micro perforation 3/3/1	$\alpha_w = 0.60-0.85$

Static certification: According to DIN 4103, Part 1, installation area 1 and 2

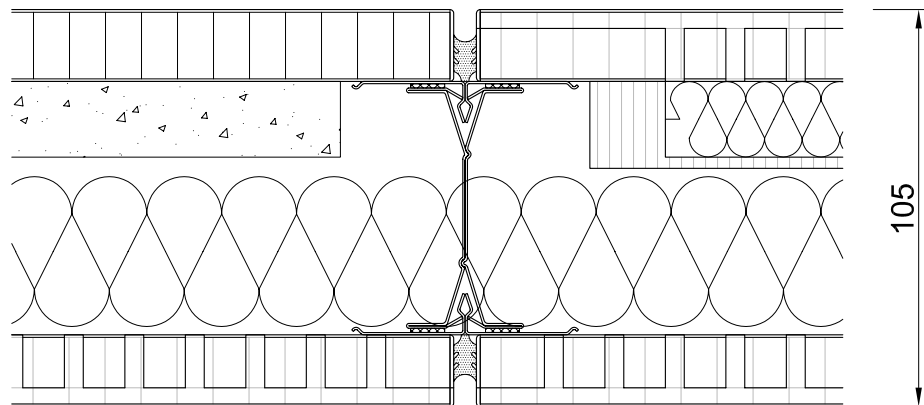
Fire resistance: F0 (no requirements)

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DIE TRENNWAND.



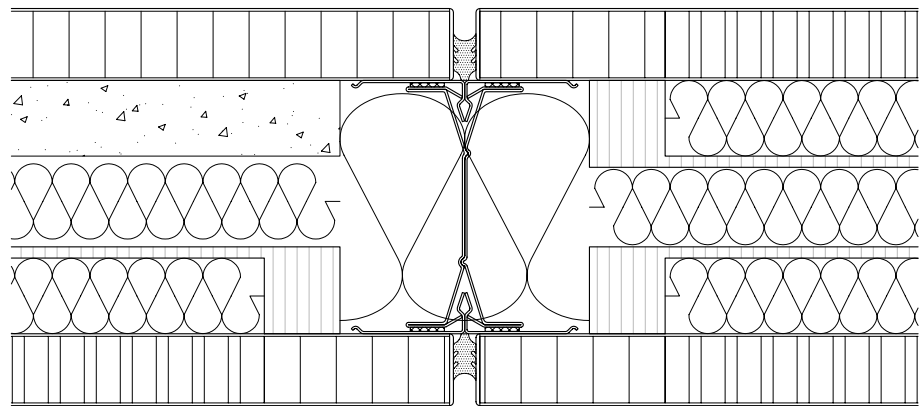
Acoustic perforation - one side

Acoustic perforation - both sides



Acoustic slotting - one side

Acoustic slotting - both sides



Acoustic microperforation - one side

Acoustic microperforation - both sides