



## Sound absorbing partition wall system with perforation or slots

**Dimensions:** Building-specific element-width and element-height, wall thickness 105 mm, recommended element size undivided up to W x H = 1,000 x 3,000 mm

**Cladding:** Acoustic elements with perforation or slots: 2 x 19 mm medium-density fibreboard panels (MDF) according to DIN EN 622-5, P2 gluing, formaldehyde emission class E1 (base board), building material class B2, optional B1, rear acoustic fleece in black

Acoustic elements with micro-perforation: 2 x 19 mm sandwich panels made of wooden materials, inset surrounding frame, formaldehyde emission class E1 (base board), building material class B2, rear acoustic fleece in black

**Surfaces:** Melamine resin direct-coating according to DIN EN 14 322 as per collection, optional CPL-/HPL-coating material according to DIN EN 438 (standard with micro-perforation), 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:** rolled-steel sections, Standard upright with installation openings, clips retaining rails on reverse of cladding, optional slotted uprights with integrated vertical organisation with 32 mm pitch

**Insulation:** 20/30/40/60 mm mineral fibre insulation with high bio-solubility, building material class A1, density approx. 40-50 kg/m<sup>3</sup>, acoustic basins and weighting depending on sound-insulation requirements

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

**Floor connection:** Telescopic, integrated negative skirting approx. 30-100 mm (80 mm standard), recessed approx. 20 mm

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

**Sound insulation:** (also see pages 38-41)

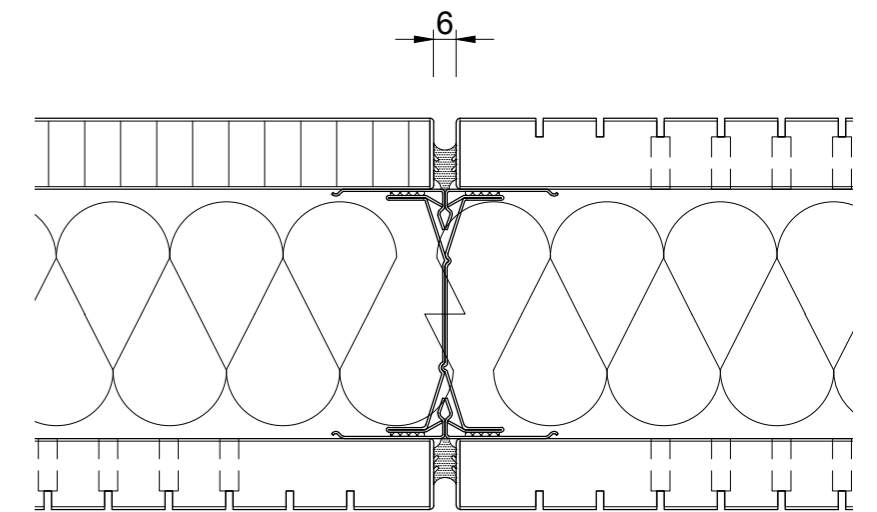
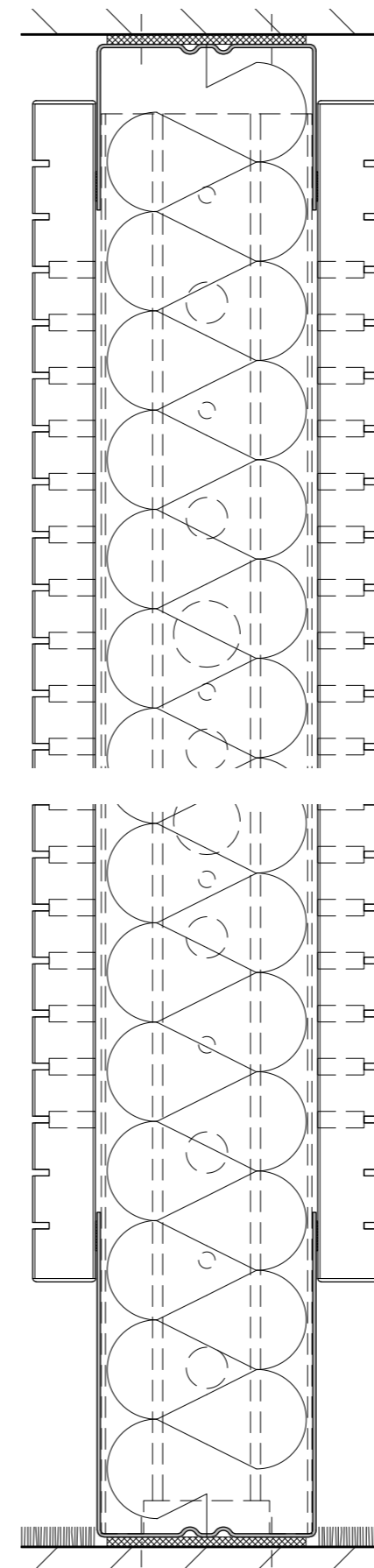
Sound-insulation test value perforation/slots one side	$R_{w,P} = 42-49$ dB
Sound-insulation test value perforation/ slots two-sided	$R_{w,P} = 27-49$ dB
Sound-insulation test value micro-perforation/slots one side	$R_{w,P} = 42-47$ dB
Sound-insulation test value micro-perforation on both sides	$R_{w,P} = 27-47$ dB

**Sound absorption:** (also see page 42)

Sound absorption coefficient slots S14/2	$\alpha_w = 0.50$
Sound absorption coefficient slots S27/5	$\alpha_w = 0.55$
Sound absorption coefficient perforation R16/16/5	$\alpha_w = 0.50$
Sound absorption coefficient fine perforation F8/8/2	$\alpha_w = 0.45$
Sound absorption coefficient micro-perforation M3/3/1	$\alpha_w = 0.60-0.85$

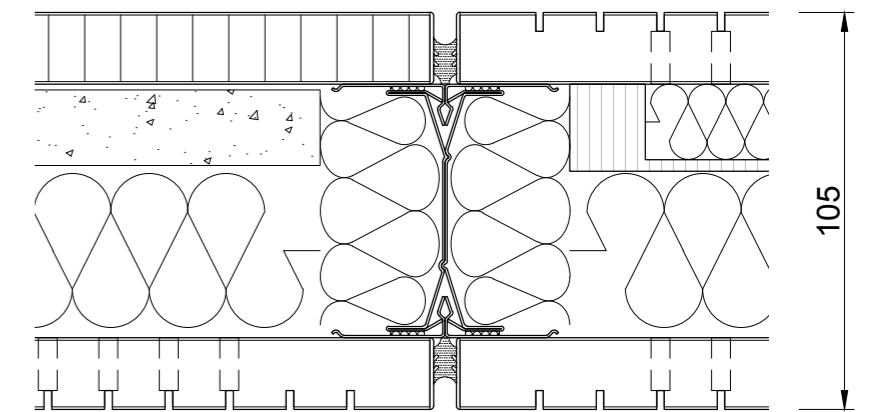
**Statics certification:** According to DIN 4103, Part 1, Installation area 1 and 2

**Fire resistance:** EI0 (no requirements)



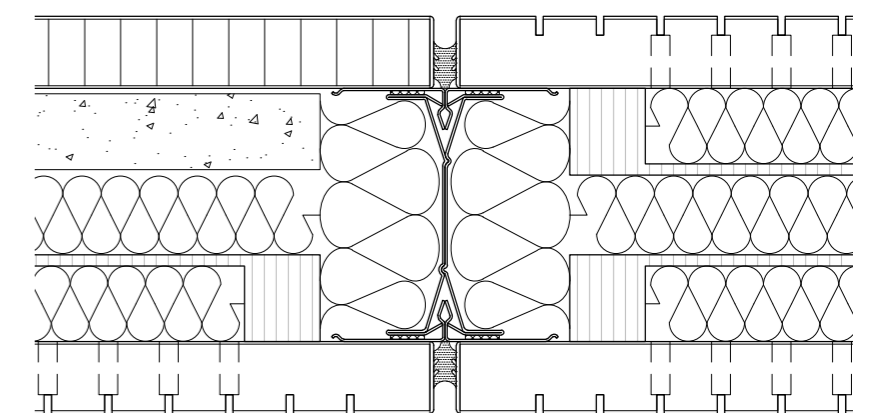
Acoustic element - one side (V1)

Acoustic element on both sides (V1)



Acoustic element - one side (V2)

Acoustic element on both sides (V3)



Acoustic element one side (V4)

Acoustic element on both sides (V4)