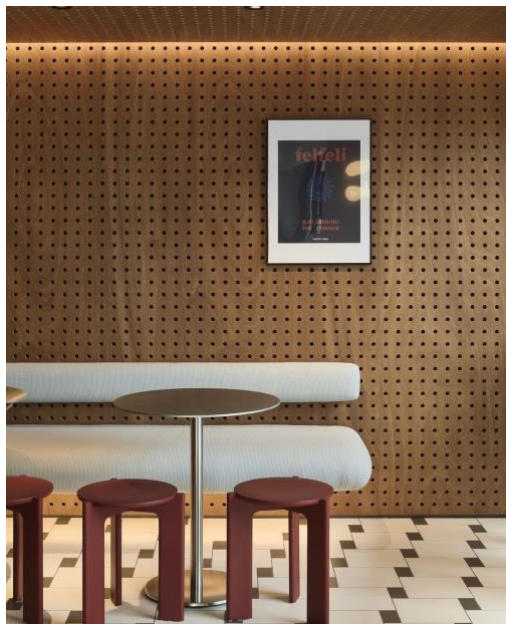


TECHNICAL DATASHEET

rWood — Perf

Perforated acoustic wood panels

TYPE / MODEL: rWood-PERF (PD8 · PH10 · PH8 · PH5)



High-performance drilled acoustic panel for walls and ceilings. Precision round perforations over a Fire-Retardant MDF core with over-veneered edges.

KEY DIMENSIONS**Custom format** = 100–3050 × 100–1220 mm**Thickness** = 8 – 19 mm**Weighted absorption α_w** = up to 1.00**Reaction to fire** = B-s1, d0**PRODUCT DESCRIPTION**

rWood — Perf is one of the most effective and widely used solutions for acoustic walls and ceilings. Precisely drilled round perforations create a large open area that allows sound waves to enter the panel and pass into the cavity behind, where they are dissipated; combined with a mineral-wool backing the panel delivers outstanding broadband absorption across the full frequency spectrum, from low bass to high treble. A premium FSC®-certified wood veneer gives a natural, warm appearance, while a Fire-Retardant Medium Density Fibreboard core and over-veneered edges produce seamless joints and the highest achievable fire class for wooden panelling. Four calibrated perforation patterns let the acoustic performance be tuned to the room — from maximum open area for demanding spaces to discreet patterns that prioritise visual refinement — and a light or dark core can be matched to the veneer to hide the perforations or contrast them for decorative effect. Engineered for the highest demands of large public spaces such as atriums, concert halls, offices and schools.

DIMENSIONS & WEIGHT

Custom sizes (W × H)	100 – 3050 × 100 – 2440 mm
Thickness	10 – 19 mm
Weight (per m²)	from ± 0.35 kg/m ²
Core density	± 48.40 kg/m ³
Standard application	Walls and ceilings
Minimum order quantity	1

MATERIALS & CONSTRUCTION

Surface / finish	Wood veneer, HPL, foil or paint
Veneer ranges	Nature veneers (natural variation) · Gemini veneers (uniform tone)
Surface treatments	Natural lacquer · pigmented · HPL laminate
Core	Fire-Retardant Medium Density Fibreboard (brown / green / black)
Edges	Over-veneered solid wood — seamless joints

Acoustic felt	Black or white fleece (prevents fibre migration)
Cavity insulation	Mineral wool, 30 – 50 mm (in cavity behind panel)
Core colour options	Dark core or light core (match or contrast the veneer)

ACOUSTIC PERFORMANCE

Weighted absorption coefficient α_w	0.90 (up to 1.00 with 50 mm mineral wool)
Noise Reduction Coefficient (NRC)	0.90
Sound absorption class (EN ISO 11654)	Class A / C (up to Class B by pattern)
Test standard	EN ISO 354 / EN ISO 11654
Mounting during test	Mounted with cavity + mineral wool backing

Perforation patterns — open area, α_w and absorption class

Pattern	Hole $\varnothing$	Open area	α_w	Absorption class
PD8	8 mm (double)	24 %	0.85	Class B — maximum absorption
PH10	10 mm	18 %	0.75	Class C — bold perforation
PH8	8 mm	12 %	0.55	Class D — balanced
PH5	5 mm	5 %	0.35	Class D — discreet surface

Sound absorption coefficient (α_s) per octave band — indicative, PD8 pattern with cavity

Frequency (Hz)	125	250	500	1000	2000	4000
α_s (PD8 pattern)	0.35	0.70	0.95	1.00	0.95	0.85

Indicative values — confirm against the project test report. Values from test report [report no. / lab / date].

FIRE & SAFETY

Reaction to fire (EN 13501-1)	B-s1, d0 — highest class achievable for wooden panels
Resistance to fire	K1-10 / K2-10
Core	Fire-Retardant MDF (inherent — no chemical impregnation)
Test standard	EN 13501-1
Option	A2-s1, d0 fire rating available on request

MOUNTING & INSTALLATION

Mounting type	Wall and ceiling — concealed clip system
Subframe	Concealed aluminium rails fixed to wall / ceiling structure
Joints	Zero-spaced, in-line perforation alignment across panels
Installation sequence	1. Mount the metal subframe rails to the structure. 2. Place mineral wool (30–50 mm) in the cavity. 3. Clip panels onto the concealed system — tool-free, zero-gap. 4. Align perforation patterns with seamless over-veneered joints.
Accessories	Edge profiles · corner solutions · mounting rails · mineral wool

FINISHES & OPTIONS

Surfaces	Wood veneer · HPL · foil · paint
Veneer ranges	Nature · Gemini
Surface finishes	Natural lacquer · pigmented · HPL laminate
Core colours	Brown / green / black; light or dark for pattern discretion
Custom options	Custom formats up to 3050 × 1220 mm; bespoke veneers on request

Samples	Free samples available
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SUSTAINABILITY & CERTIFICATIONS

Wood sourcing	FSC® certified — responsibly managed forests
Recycled content	± 17 % post-consumer recycled material in the core
Emissions / VOC	TVOC approved (ISO 16000); no added urea formaldehyde
Environmental	EPD available
Production	European production · renewable energy · short supply chains
Warranty	Contact Re-Sound for warranty terms

MAINTENANCE & CARE

Routine care

- Dust regularly with a soft brush or a dry microfibre cloth, working in the direction of the grain.
- **Vacuum** on low suction with a soft upholstery/brush attachment; keep the nozzle just off the surface.
- Keep panels out of prolonged direct sunlight to limit colour change of natural veneers.

Spot cleaning (light marks & stains)

- **Act fast.** Blot fresh spills immediately with a clean, dry, absorbent cloth — blot, never rub.
- **Test first.** Always try any cleaning method on a hidden corner or a spare panel before treating a visible area.
- For remaining marks, lightly dampen (do not soak) a soft cloth with cold water and a single drop of mild, pH-neutral soap; wipe along the grain, then wipe again with a clean damp cloth and let air-dry.

Please avoid

- Soaking or saturating the surface — water reaching the core can cause swelling or watermarks.
- Bleach, solvents, alcohol or aggressive household cleaners.
- Steam cleaning and abrasive sponges, scouring pads or stiff brushes.

Stubborn or set-in stains

- For deep or dried-in marks, use a professional wood/veneer-safe cleaner and tell them the panel has an acoustic core and veneered surface that must not be soaked.

For replacement panels, accessories or further advice, contact Re-Sound.

ORDERING INFORMATION

Pattern variants	rWood-PERF PD8 · PH10 · PH8 · PH5
Surface / veneer	Specify veneer range, species and finish when ordering
Lead time	Made to order — confirm with Re-Sound at quotation
Country of origin	Made in Europe
Contact	Gentseweg 309 A3, 9120 Beveren-Waas, Belgium · +32 3 284 68 18

Note: Values are approximate. Because veneers are a natural material there may be limited deviation in colour and grain. Acoustic figures depend on perforation pattern, cavity depth and mineral-wool backing.

Technical data is subject to change without notice. Verify the latest revision before specifying. Datasheet revision: 06 / 2026.