

TECHNICAL DATASHEET

rWood Groove — Acoustic wood panel

Grooved acoustic wood panel for wall and ceiling mounting. A-grade oak or walnut veneer over a recycled-PET felt core, joined with a concealed tongue-and-groove connection.

Key dimensions

- Panel width (b) = 300 mm
- Panel length (h) = 2400 / 2780 mm
- Thickness (w) = 10 / 19 mm
- Groove depth × width = 7 x 15mm / 15 × 15 mm



PRODUCT DESCRIPTION

rWood Groove is a premium grooved acoustic panel that combines an A-grade natural wood veneer — oak or walnut — with an integrated, sound-absorbing recycled-PET felt backing. The face is precision-grooved into vertical lamellas, creating the signature linear relief while the open grooves channel incident sound into the felt behind. Acoustically it performs as a Class A absorber (α_w 0.90, EN ISO 11654), reducing reverberation and improving speech clarity in offices, meeting rooms, hospitality and residential interiors. Panels join with a concealed tongue-and-groove connection for a seamless, continuous surface and mount on battens or adhesive across walls and ceilings. The wood is FSC®-certified and the felt is made from recycled PET — a warm, natural finish that pairs genuine acoustic performance with strong sustainability credentials.

DIMENSIONS & WEIGHT

Panel width (b)	300 mm
Panel length (h)	2400 / 2780 mm
Panel thickness (w)	10 / 19 mm
Groove depth	7 / 15 mm
Groove width	15 mm
Felt thickness	3 mm
Standard sizes available	19 × 300 × 2400 mm · 19 × 300 × 2780 mm
Weight (per panel)	± 6.4 – 8.3 kg
Tolerances	Thickness ± 0.2 mm · Weight ± 10 %

VARIANTS & GROOVE PATTERNS

Variant	Lamellas	Lamella width
Original	6	34 mm
Mixed	6	50 / 30 / 22 mm
4-Lamella	4	59 mm
3-Lamella	3	84 mm

MATERIALS & CONSTRUCTION

Veneer / face	A-grade oak or walnut (natural wood)
Core	MDF — standard, moisture-resistant or fire-retardant
Felt backing	Recycled PET, 3 mm (black or grey)
Finish	Penetrating oil or lacquer
Connection	Concealed tongue-and-groove
Recycled content	Recycled-PET felt backing

ACOUSTIC PERFORMANCE

Sound absorption class (EN ISO 11654)	A
Weighted absorption coefficient α_w	0.90
Practical sound absorption	≈ 90 %
Test standard	EN ISO 354 / EN ISO 11654
Mounting during test	Per acoustic test report

Sound absorption coefficient (α_s) per octave band

Frequency (Hz)	125	250	500	1000	2000	4000
α_s	—	—	—	—	—	—

Detailed as values are provided in the acoustic test report.

FIRE & SAFETY

Reaction to fire — standard panel (EN 13501-1)	D-s2, d2
Reaction to fire — fire-retardant MDF core	B-s1, d0
Reaction to fire — felt backing	B-s1, d0
Formaldehyde class	E1
Test standard	EN 13501-1

MOUNTING & INSTALLATION

Mounting type	Wall & ceiling
Connection	Tongue-and-groove (concealed, seamless)
Fixing method	Mounting battens or adhesive
Recommended substrate	Clean, dry, level surface
Installation notes	Start from a corner and check level; slide the tongue into the groove for a seamless joint; finish edges with end mouldings.

FINISHES & OPTIONS

Oak finishes	Natural, White, Clear, Brown, Dark Brown, Black (penetrating oil)
Walnut	Natural, oiled

Felt colours	Black, Grey
Surface treatment	Oiled / painted (untreated on request)
Core options	Standard / moisture-resistant / fire-retardant MDF
Custom options	Bespoke configurations on request
Minimum order quantity	On request

SUSTAINABILITY & CERTIFICATIONS

Wood sourcing	FSC® certified (C191539)
Felt certification	OEKO-TEX® Standard 100
Environmental	EPD available (ISO 14025 / EN 15804)
VOC emissions	E1 / low emission
Production	Made in Europe
Recyclability	Recycled-PET felt; FSC-certified wood

MAINTENANCE & CARE

Routine care

- Dust regularly with a soft, dry microfibre cloth, following the direction of the grain.
- Vacuum on low suction with a soft brush attachment to lift dust from the grooves; keep the nozzle just off the surface.

Spot cleaning (light marks)

- Wipe gently with a barely-damp cloth and dry immediately — never let water sit on the veneer.
- Always test any cleaning method on a hidden area or a spare offcut first.

Oiled finishes

- Re-oil periodically with the matching maintenance oil (touch-up kit) to refresh protection and even out colour.

Please avoid

- Soaking the panel or allowing water to reach the felt core.
- Bleach, solvents, alcohol and abrasive or aggressive household cleaners.
- Steam cleaning, scouring pads and stiff brushes.
- Prolonged direct sunlight, which can cause natural colour variation over time.

As a natural product, the wood varies in grain and colour and may change subtly over time. For replacement panels or further advice, contact Re-Sound.

ORDERING INFORMATION

Article / SKU	Assigned per configuration — specify variant, veneer & finish, and felt colour (e.g. rWood Groove · Original · Oak Natural · Black felt).
Configuration options	Variant: Original / Mixed / 4-Lamella / 3-Lamella · Veneer & finish: Oak (Natural, White, Clear, Brown, Dark Brown, Black) or Walnut · Felt: Black / Grey · Core: standard / MR / FR
Accessories	End mouldings, corner profiles, mounting battens, touch-up kit
Lead time	Subject to stock — confirmed on order
Country of origin	Europe

These values are approximate. As we work with natural wood and textiles, limited deviations from the stated values may occur. Technical data is subject to change without notice. Verify the latest revision before specifying. Datasheet revision: 06 / 2026.