

Fabric-Wrapped Acoustic Panels

Fabric Polyester Fiber Board · Fabric Acoustic Panel · Acoustic Hard Fiber Panel



Fabric-Wrapped Acoustic Panels · Series Overview



Feltlite fabric-wrapped acoustic panels combine a sound-absorbing core with an acoustically transparent fabric finish. Sound waves pass through the fabric and are absorbed by the core material, controlling echo and background noise while adding a refined decorative surface.

The series covers three product lines:

- 01 Fabric Polyester Fiber Board
lightweight, 9/12mm, cost-effective
- 02 Fabric Acoustic Panel
high-density glass wool core, Class A
- 03 Acoustic Hard Fiber Panel
rigid panel, fabric decor finish

Available in a wide range of fabric colors
— see the Feltlite Fabric Color Chart on P.04.



■ Environmental friendly

■ Good decoration

■ High density

■ Easy installation

■ Good acoustic

■ Fire prevention

FABRIC-WRAPPED SERIES · 01

Fabric Polyester Fiber Board

Name: Fabric polyester fiber board

Specifications: 1200*2400mm or custom · Thickness 9/12mm

Colour: More than 100 styles · Feltlite fabric color chart (P.04)

Density: 9mm: 1350 / 1862 g/m² 12mm: 1800 / 2262 g/m² (or custom)

Application: office, restaurant, hotel, living room, bedroom, cinema



Environmental friendly

Good decoration

High density

Easy installation

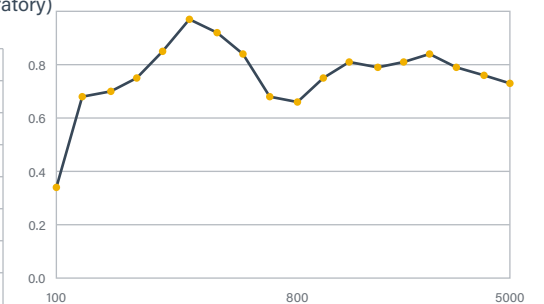
Good acoustic

Fire prevention

Sound Absorption Coefficient (tested by authority laboratory)

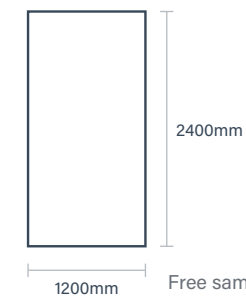
Freq (Hz)	a	Freq (Hz)	a
100	0.34	800	0.66
125	0.68	1000	0.75
160	0.70	1250	0.81
200	0.75	1600	0.79
250	0.85	2000	0.81
315	0.97	2500	0.84
400	0.92	3150	0.79
500	0.84	4000	0.76
630	0.68	5000	0.73

NRC against Frequency (Hz)



Front size:

Side thickness:



9 / 12 mm

Free samples · support customization

Feltlite Fabric Color Chart

Fabric decor colors · free samples · custom colors on request

FL-BF032 series · Fabric Polyester Fiber Board

applies to Fabric Polyester Fiber Board (P.03)



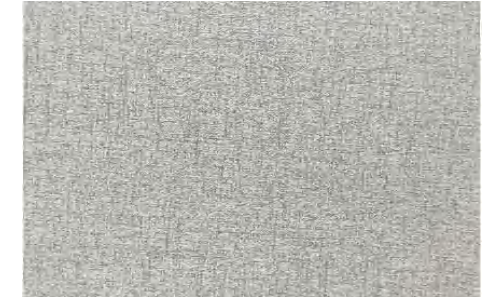
FL-BF032-05



FL-BF032-17



FL-BF032-19



FL-BF032-34

FL-DS487 series · Fabric Acoustic / Hard Fiber Panel

applies to Fabric Acoustic Panel (P.06) & Acoustic Hard Fiber Panel (P.09)



FL-DS487-1



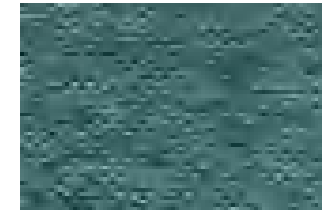
FL-DS487-2



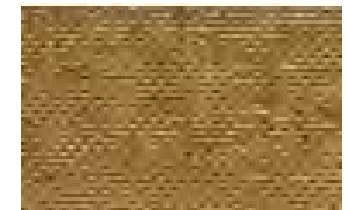
FL-DS487-4



FL-DS487-5



FL-DS487-6



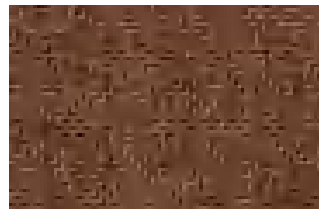
FL-DS487-10



FL-DS487-17



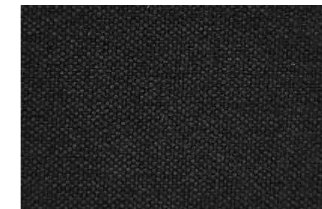
FL-DS487-18



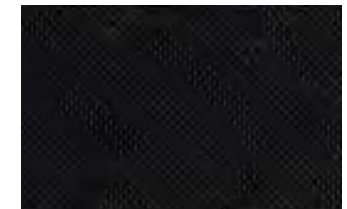
FL-DS487-22



FL-DS487-24



FL-DS487-25

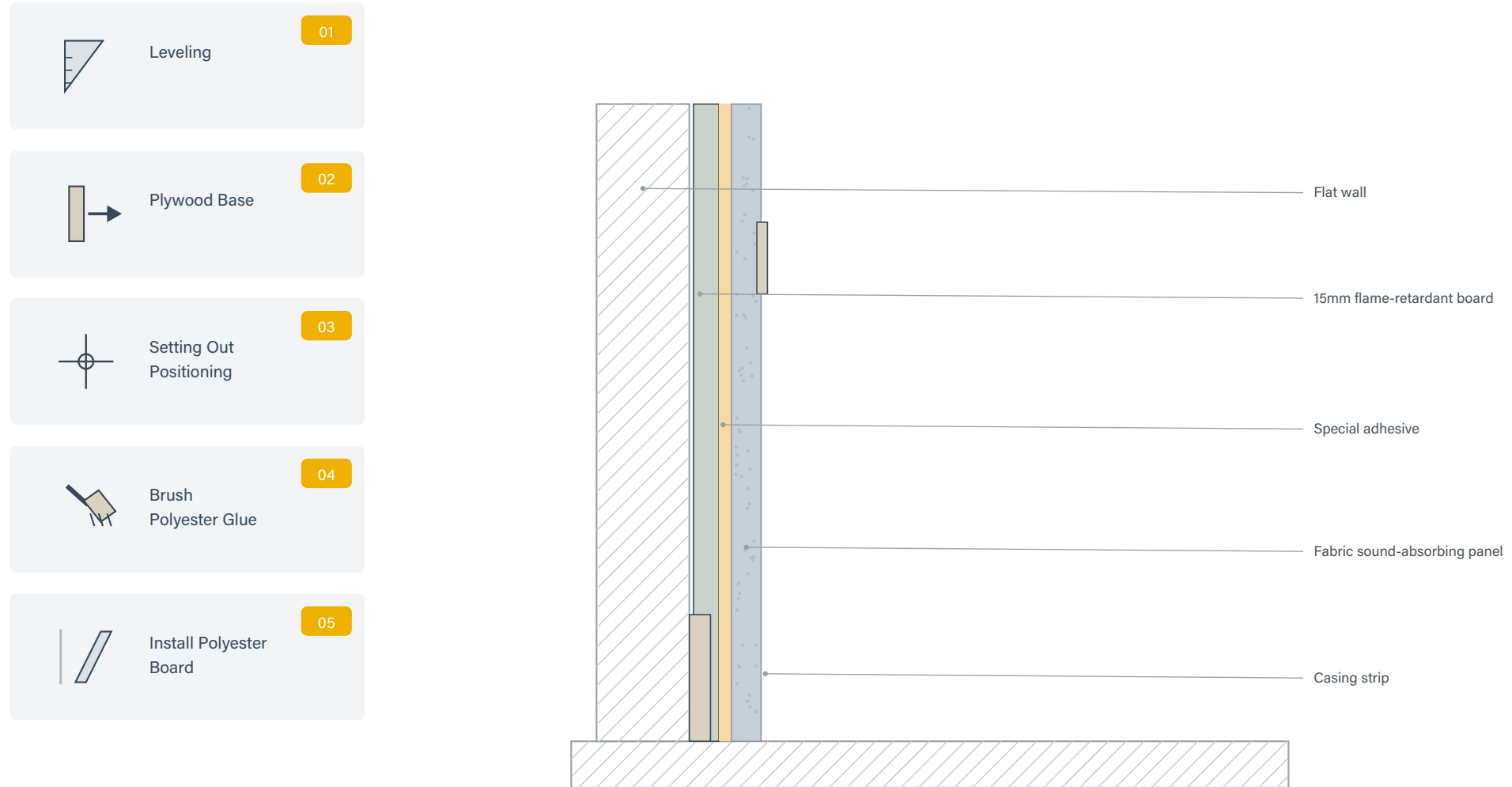


FL-DS487-28

More fabric colors available on request · actual color may vary slightly due to fabric batch and printing

Fabric Polyester Fiber Board · Installation Node Diagram

Installation node diagram of fabric polyester fiber sound-absorbing board





GLASS WOOL CORE · FIRE CLASS A

Fabric Acoustic Panel

Sound-absorbing panels wrapped in fabric with an internal core of hydrophobic, formaldehyde-free glass wool. Used to control echoes and background noise in offices, theaters, recording studios and other environments where sound quality matters.

Base material: hydrophobic & formaldehyde-free white glass wool

Frame: resin frame, aluminum frame, soft frame

Finish: fabric, leather, fiber glass fabric series

Hydrophobic rate: $\geq 98\%$ (white glass fiber cotton)

Moisture content: 0.4%

Shrinkage temperature: 380 (thermal load)

Fire protection: Class A (base material)

Environmental: no formaldehyde release

Construction: pasted, buckled and nailed

Edge details / frames



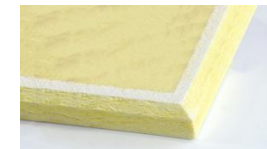
Right Angle



Small Chamfer



Big Chamfer



Resin Frame



Aluminum Frame



Soft Frame

Fabric decor finishes · FL-DS487 series (P.04)



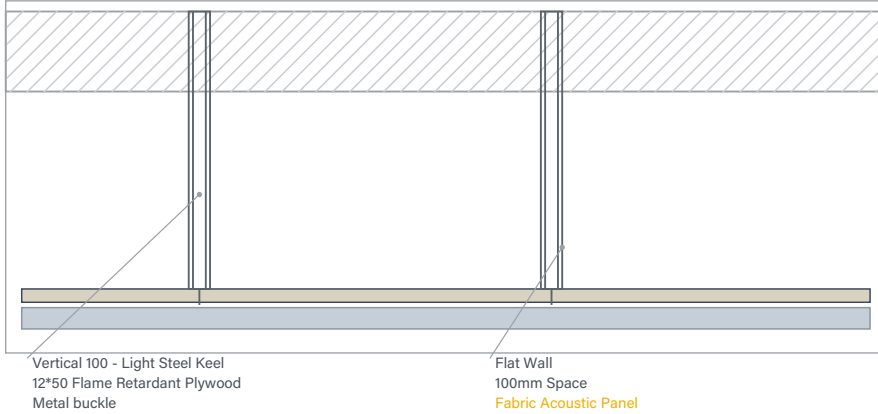
Sound absorption coefficient (tested by authority laboratory)

Frequency	125	250	500	1000	2000	4000
25mm Sound Absorption α	0.38	0.77	0.91	0.88	0.86	0.89
50mm Sound Absorption α	0.61	0.98	1.00	0.95	0.98	0.95

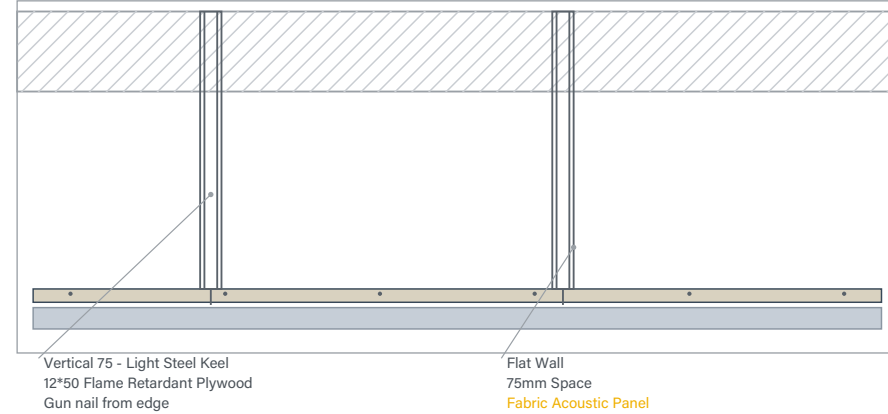
Thickness: 25 / 50mm · NRC adjustable by installation structure

Fabric Acoustic Panel · Installation Systems

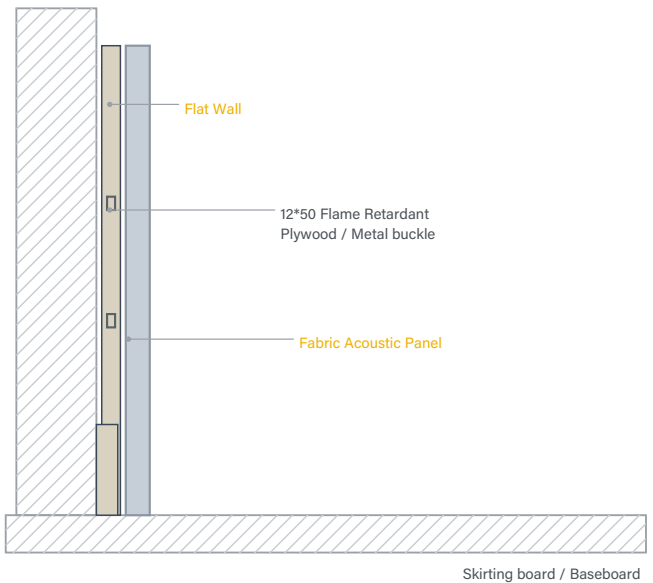
Clip installation - horizontal section



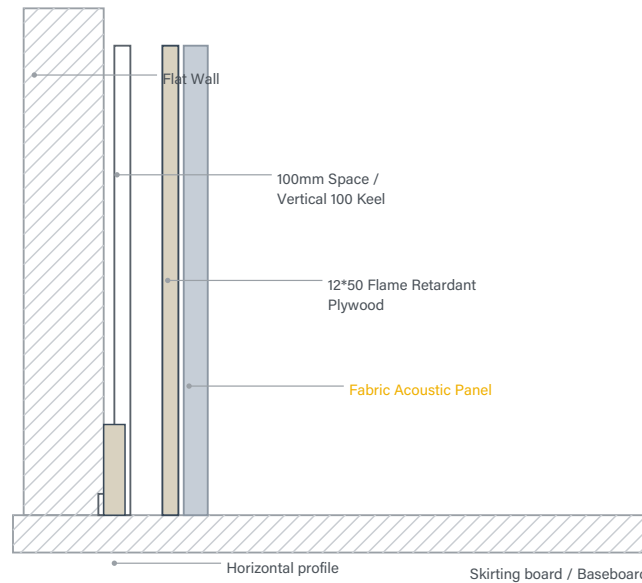
Nail and wood batten installation - horizontal section



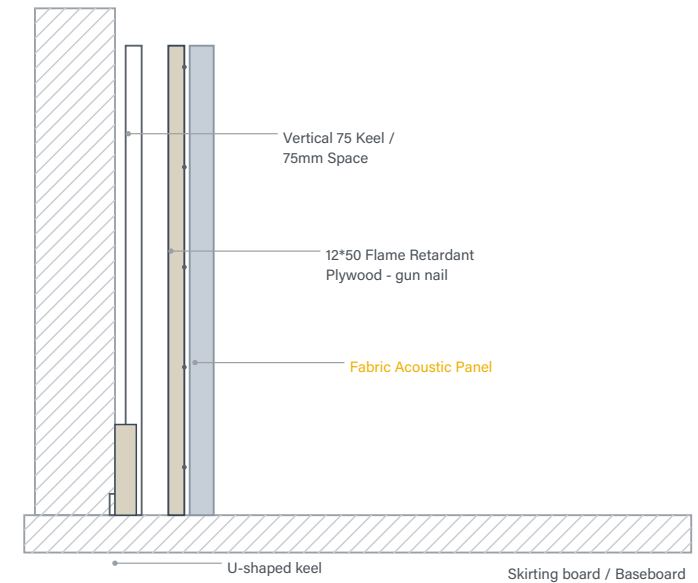
Cross sections of fabric acoustic panel wall installation



Pasted to backboard - vertical section



Clip installation - vertical section



Nail and wood batten installation - vertical section

Fabric Acoustic Panel · Project Cases





FABRIC ACOUSTIC DECOR FINISH

Acoustic Hard Fiber Panel

A wall decoration panel wrapped with fabric on a high-quality fiber panel core. Soft texture and color soften the space atmosphere, with flame-retardant, sound-absorbing, moisture-proof and anti-collision functions — cost effective for large interior areas.

Structure: fiber panel pressed at 200+ C with fabric finish, one whole piece

Density: 120 - 300 kg/m³

Acoustics: NRC $\geq$ 0.75 (GB/T 20247-2006 reverb room test)

Fire resistance: Grade B1 (Grade A optional, GB8624-2017)

Environmental: E1 grade (GB18580-2017)

Waterproof: fine & dense, impervious - lotus leaf effect

Decoration: fabric / leather / paintable, curved surfaces available

Applicable: restaurant, conference room, office, hotel, banquet hall

Product specification (commonly used)

Length 1200 / 2400 / 3000mm Width 600 / 1200mm Thickness 9 / 12mm
Can be cut to any shape easily at site installation

Sound absorption coefficient, 9mm (tested by authority laboratory)

Frequency	125	250	500	1000	2000	4000
9mm Sound Absorption Coefficient α	0.44	0.80	0.85	0.82	0.73	0.68

Sound coefficient can be adjusted according to installation structure

Key features

- Flame retardant
Grade B1, Class A optional
- Sound absorbing
NRC $\geq$ 0.75
- Moisture-proof
lotus-leaf water resistance
- Anti-collision
dense & impact resistant
- Eco-friendly
E1 grade, no odor
- Easy installation
cut to any shape on site

Colour: Feltlite fabric decor series · FL-DS487 · see Fabric Color Chart P.04

Installation: pasted / clip / nail systems · see Fabric Acoustic Panel installation P.07

Free samples · custom sizes & colors on request · OEM / ODM supported

