

Architectural Specifications

PRODUCT

abCOR LINEAR Plain is an unperforated acoustic panel
Used for reflective purposes and low frequency sound absorption as wall or ceiling treatment.

The abCOR LINEAR Plain panels are made up of an **MDF core** sandwiched between a **surface layer** of real wood veneer, melamine or paint and an **acoustic fleece**

DIMENSIONS

Perforation Face: None or Decorative scoring
Rear Boring: None
Open Area : None
Thickness: 13/ 16/ 18mm
Weight:
Standard sizes:
 Planks - 2400 x 192mm (Standard)
 Panels - 600 x 600, 1200 x 600, 2400 x 600

MATERIAL SOURCE

All material used in the production of **abCOR LINEAR Plain** panels are from **European sources** . All manufacturing is done here in Ireland to the highest quality norms.

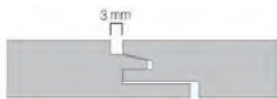
Our wood product components are sourced from providers with environmentally friendly practices and were required or request we supply certified materials; **PEFC and FSC Mdf & Veneers.**

EDGE DETAIL

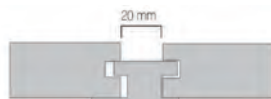
The abCOR LINEAR range of panels are machined with a specific **T&G profile to suit a T-Clip fixing bracket.**

A range of edge profiles are available to suit the designers / architects' preferred look and installation ;

TG 03 - Tongue & G with 3mm Gap



RV 20 - Reveal, 20mm Shadow Gap



TGV 02 - Tongue & Groove V Joint



TBV 03 - Bevelled Joint 3mm Gap



TEAK VENEER - PRE-FABRICATED



FINISHES

The abCOR LINEAR Plain acoustic panels are available in a varying range of surface finishes from real wood veneers, melamine and HPL to high quality painted surfaces.

Real Wood Veneers

- All wood species - First quality

Man made veneers

- Reconstituted veneers - Good colour match

Melamine

- Wood grain, Solid colours - Budget

Laminates (HPL)

- Wood grain , Solid colours - High wear

Paint

- Matt, Semi-Matt & Gloss - Design



APPLICATIONS

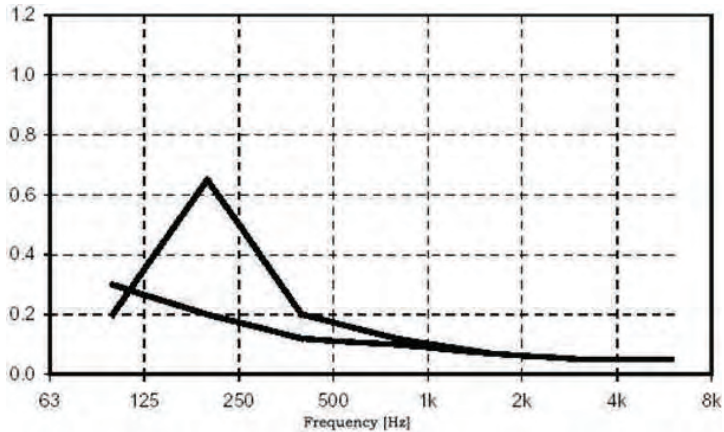
The abCOR LINEAR Plain panel is designed for use in **areas requiring a high level of sound absorption** as acoustic treatment.

Conference Centres
Airports Universities
Multi purpose halls

Auditoria Banquet Halls
Hotels Restaurants
Theatres Leisure Centres

Acoustic Performance

Absorptive / Reflective



ACOUSTIC ABSORPTION

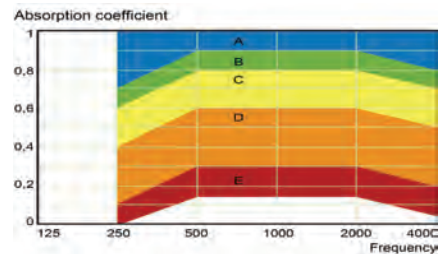
The graph above shows very different absorptions from a similar panels.

The difference comes the thickness of the panel, the air space behind the panel, the acoustic insulation as well as the fixing methods.

Used as a low frequency absorber.

ACOUSTIC REFLECTION

The unperforated abCOR LINEAR Plain panels are used as reflective panels and as diffusing panels for wall and ceiling cladding



Technical Specifications

INSTALLATION

Our **abCOR LINEAR Plain** panels are **designed for ease of installation** using T-Clip fixing on standard wall battens and suspended ceiling rails.



Products are to be installed to manufacturers recommendations by experienced installers.

Material should rest for 2 to 3 days prior in the site conditions before carrying out the installation work. In new buildings with fresh concrete and plaster, installation should not be carried out until the relative humidity has equalised. An expansion joint of 2-3mm should be allowed for every 7 meters.

When the finish is veneer - a natural product with inherent variations, panels should be selected for colour and grain matching prior to installation.

TECHNICAL ADVICE

Our qualified installation and acoustic engineers are available to assist with technical advice on specifications and installation requirements at info@acousticpanels.ie

HANDLING AND STORAGE

abCOR LINEAR Plain acoustic panels should be stored in a dry environment, flat and covered to protect them from dust and dirt. Package should be opened and panels allowed to acclimatize prior to installation.

As these are **finished products** care should be taken in handling to prevent scratching and breakage.

FIRE PERFORMANCE - HIGH

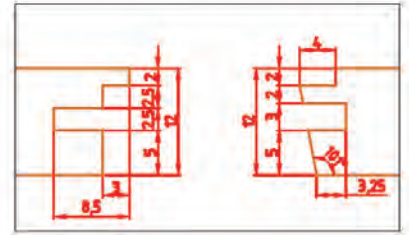
The core material used in Fire Rated panels is **Euroclass Bs2d0** Mdf . When veneer is the finish we also use a fire retardant lacquer, Euroclass Bs2d0.

IMPACT RESISTANCE - HIGH

Medium density fibreboard panels used in our acoustic products are impact resistant and ideally **suited for use in high traffic areas** such as corridors and lecture theatres in schools, universities and public spaces.



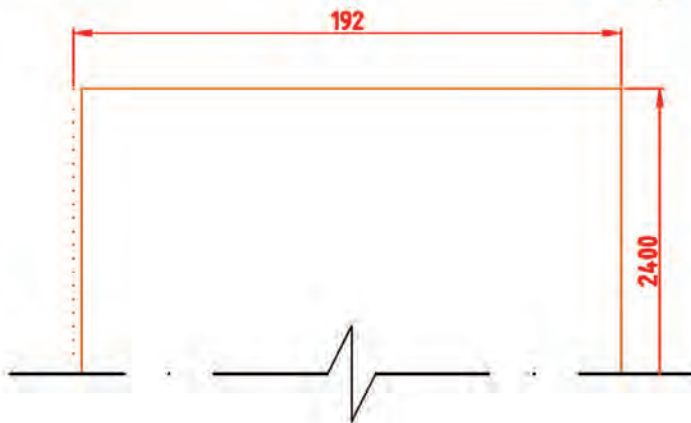
BACK



PROFILE

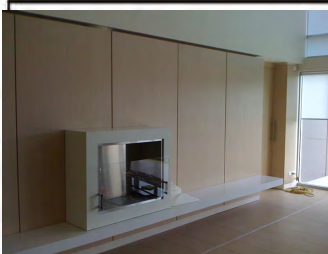
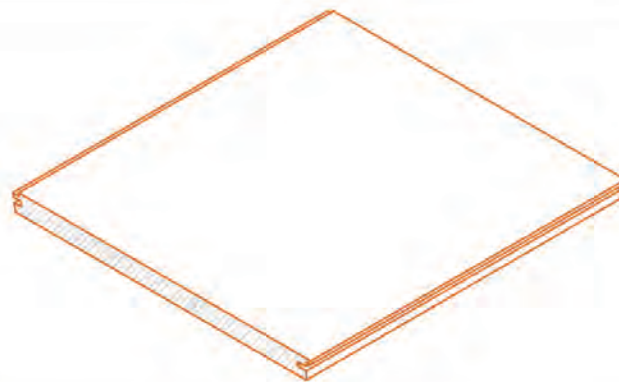
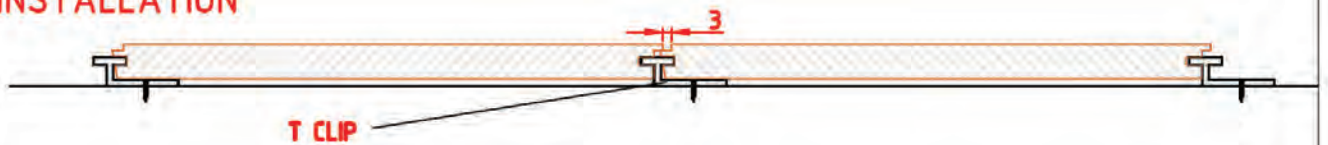


FRONT



Finish melamina and weneer

INSTALLATION



H

Client:

Drawn by: MJPB

Scale: 1/25

Approved: Approved:

Observations: General tolerances +/-0.5mm

Date: 12-12-2013