

Architectural Specifications

PRODUCT

abCOR LINEAR P29/3 - 16 is a grooved acoustic panel, giving a very uniform linear appearance when used as wall or ceiling treatment.

The abCOR LINEAR 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: Grooved 3mm every 29mm

Rear Boring: D10 at 16mm centre

Open Area : 4,7%

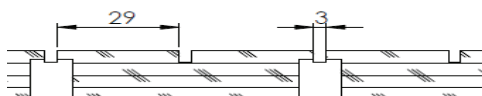
Thickness: 16mm

Weight: 11,5 kg / m²

Standard sizes:

Planks - 2400 x 192mm (Standard)

Panels - 600 x 600. 1200 x 600, 2400 x 600



BEECH VENEER - NATURAL



MATERIAL SOURCE

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

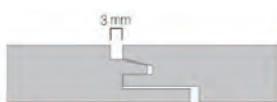
Our wood product components are sourced from providers with environmentally friendly practices and were required or request we supply certified materials; **PEFC and FSC Mdf & Veneers.**

EDGE DETAIL

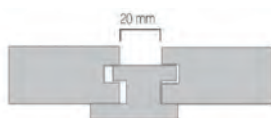
The **abCOR** range of panels are machined with a specific **T&G profile** to suit our **T-Clip** fixing bracket.

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



FINISHES

The **abCOR LINEAR** 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

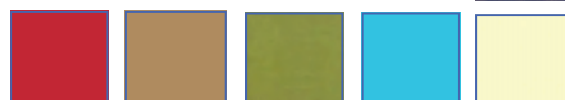
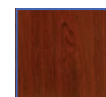
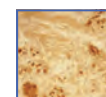
- Wood grain, Solid colours - Budget

Laminates (HPL)

- Wood grain , Solid colours - High wear

Paint

- Matt, Semi-Matt & Gloss - Design



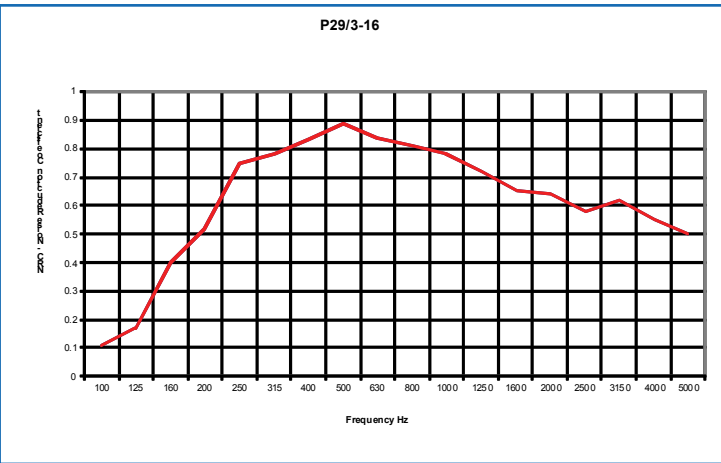
APPLICATIONS

The **abCOR LINEAR P29/3 - 16** 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



Absorption rating - HIGH

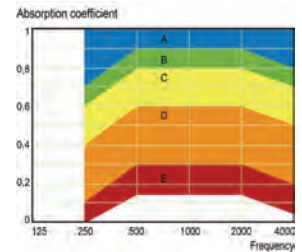
125	250	500	1000	2000	4000	NRC
0.17	0.75	0.89	0.78	0.64	0.55	0.77

NRC Value: 0.77
Absorption: Class C

ACOUSTIC ABSORPTION

The unique design and perforation type, size and quantity make the TAVILINE P29/3 - 16 a absorbent panel often difficult to achieve in wood panels.

Very good universal absorber from the lower to mid frequency ranges.



Acoustic Panel Specifications;

Panels are tested in a laboratory using 40mm of acoustic insulation, 70kg/m³ and with an air gap of 45mm.

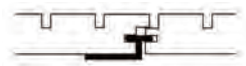
Area Grooved Face : 7,5%
Area Perforated Back : 12,2%
Open area to sound : 4,7%

Technical Specifications

INSTALLATION

Our **abCOR LINEAR** panels are **designed for ease of installation** using a T-Clip system 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 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

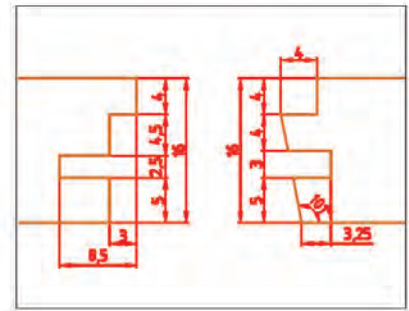
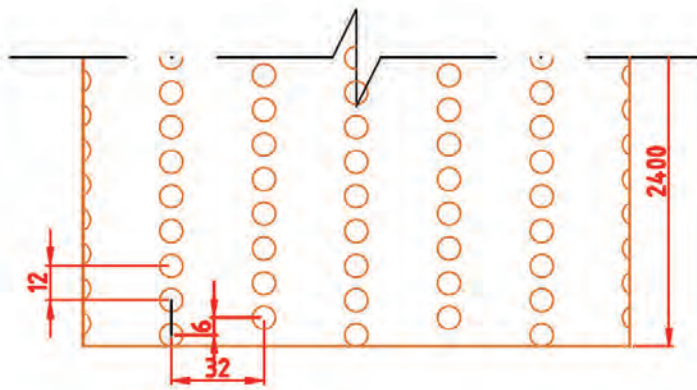
The core material used in Fire Rated panels is **Euroclass Bs2d0** Mdf. When veneer is the finish we also use a fire retardant lacquer, Euroclass Bs2d0.

IMPACT RESISTANCE - HIGH

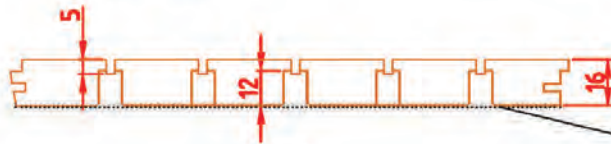
Medium density fibreboard panels used in our acoustic products are impact resistant and ideally **suited for use in high traffic areas** such as corridors and lecture theatres in schools, universities and public spaces.



BACK

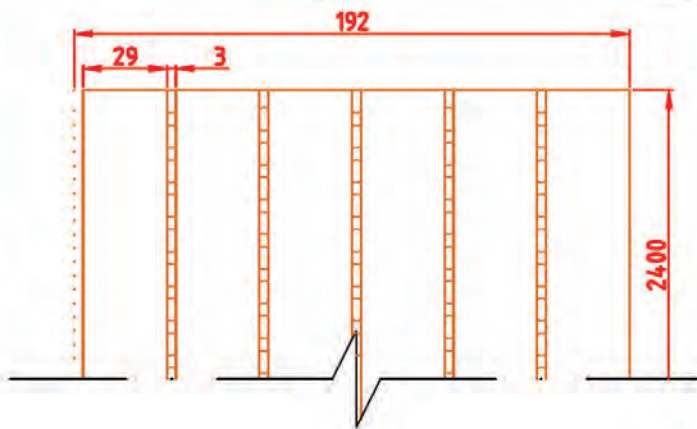


PROFILE



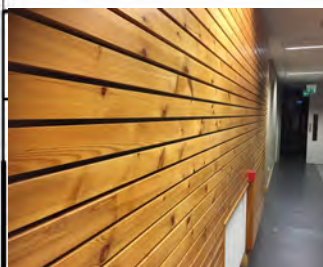
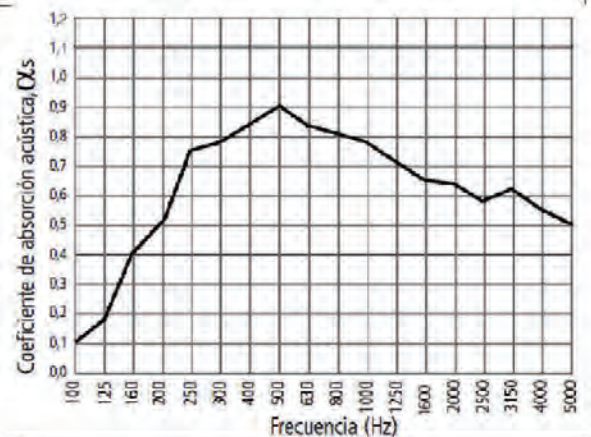
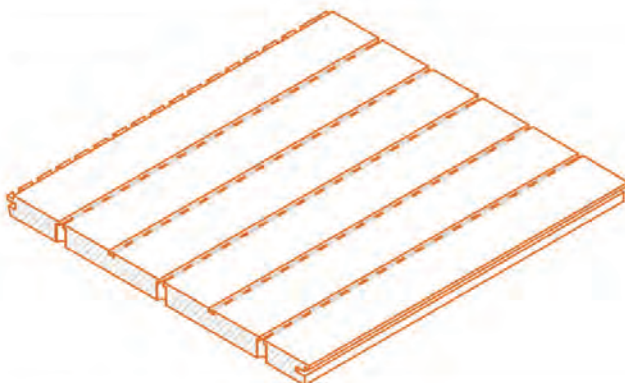
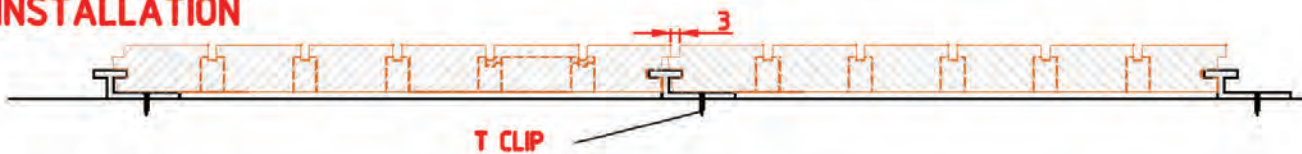
Soundproof

FRONT



Finish melamine and veneer
 Percentage of perforated surface: 4,7%

INSTALLATION



IC P29/3-16

Client:	1/2.5	Drawn by:	MJBP
Scale:	1/2.5	Approved:	Approved:
Observations:	General tolerances +/-0.5mm	Date:	12-12-2013