

**Acoustic
Products**



**Movable Walls
Acoustic Panels**

PERFECTION IN THE ABSORPTION OF SOUND



SWISS MADE 

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TAVAPAN SA

an established modern company with
up to date products



Our company is based in CH-2710 Tavannes which is in the French speaking part of Switzerland, approximately 40 kilometers north west of the capital.

Our company was formed in 1935. Since then we have concentrated on the manufacture and marketing of wood based products for international clients.

From the beginning our range of products has been continuously modified and improved and today we exclusively manufacture for the high quality niche and technically demanding market, in particular for the following sectors:

- Acoustic sound absorption.
- Thermal and sound insulating sandwich panels.
- Veneered and decorative high quality panels and elements.

A very important development for our company was during the 1990s, when we became part of the Portuguese group SONAE.

A world-wide group, with 50'000 employees, working in various economic sectors provides Tavapan with the necessary support to develop and maintain contacts with it's clients.

We are pleased to present to you on the following pages, our range of acoustic products and to leave you to be surprised by it's variety. Our long-standing experience provides you with standard products in many forms, as well as purpose made to your acoustic and design requirements.

A company of the group





Creawood®, NEWALTA,
Calgary (Canada)



Creawood®, NEWALTA,
Calgary (Canada)



Tavaperf, College Yverdon, CH – Yverdon



Deweton®, Clinic Deggendorf,
DE – Deggendorf



Tavaperf, Gymnasium,
University, CH – Fribourg



Tavaperf, Aerospace Dassault, FR – St.Cloud



Introduction into the world of Tavapan Wooddesign

We offer you the best solution for acoustic and aesthetic requirements for your construction projects. Our range of acoustic products consists of three principal products:

DEWETON®

TAVAPERF

CREAWOOD®

DEWETON®

This classic product, amongst our range of acoustic panels, has remained in fashion since its introduction over 30 years ago and is still appreciated and in demand. The surface has 4 mm wide grooves connecting into the tubular core of the 25 mm thick extruded chipboard panel. Using Deweton® provides a visual appearance of fine and discreet lines to wall and ceiling surfaces.

CREAWOOD®

This tongued and grooved slat distinguishes itself by its excellent sound absorption values and design. Rectangular surface perforations are created by surface grooving at right angles to narrow strips of the panel core, created in the manufacturing process. Creawood® provides an infinite variety in the finishing of wall and ceiling surfaces with concealed joints.

TAVAPERF

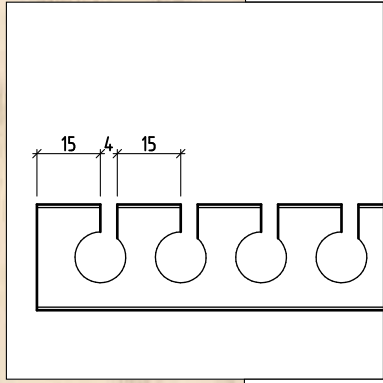
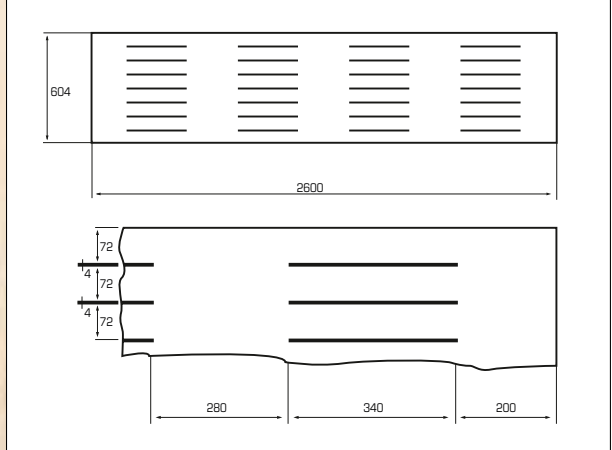
The attractive simplicity of its circular perforations provides this product with a clear and clean image. Varying the different perforation diameters and centres influences the visual appearance and levels of sound absorption.

The panel surface may be timber veneered, melamine coated or lacquered in RAL/NCS colours. Orders may comprise a combination of these finishes in the same area.

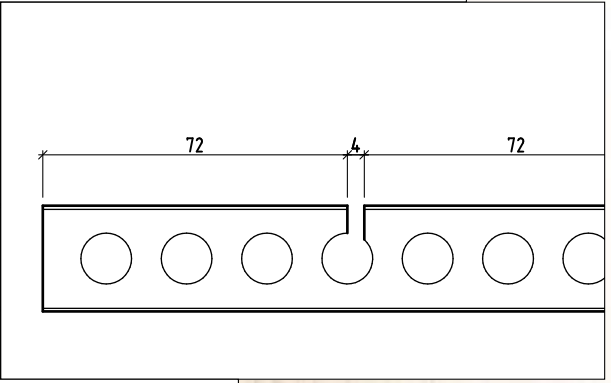
Please don't hesitate to contact us for further information by telephone on +41 32 482 64 30 or by email at production@tavapan.ch. We look forward to discussing your requirements and providing the optimal solution. This includes a visit to your office or site by a Technical Representative.



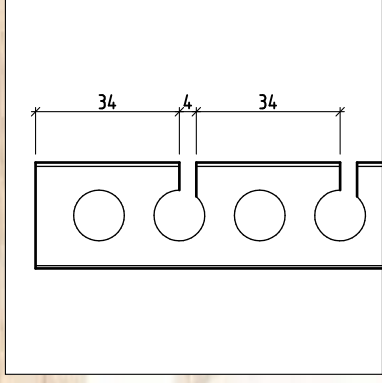
Deweton® Type A
Intermittent rear groove size tolerance:
 in the length : ± 10 mm
 in the width : ± 0.5 mm



Deweton® Type D1



Deweton® Type D4



Deweton® Type D2

Deweton® acoustic panels

- **Deweton®** acoustic panels are based on an extruded core, they are individually made to order.
- **Deweton®** acoustic panels are tailor made for each specific project and are available in a range of standard lengths. We can also manufacture the panels in non standard lengths subject to a waste surcharge.
- You have the choice of two panel types A (absorption) D (insulation). Both types are available with different face slitting dimensions which allows you to 'tune' the sound absorption to suit your application.
- **Deweton®** panels are available finished with wood veneer, melamine, or lacquered in any of the RAL/NCS range of colours.
- **Deweton®** panels provide an interesting low cost solution to acoustic problems.

Types: Details of the two types of **Deweton®** panels:

Type A

For sound absorption; slit on the finished face, with the back of the panel intermittently slit (approximately 300 mm long). **Deweton®** type A panels offer excellent sound absorption.

A1	Slit every tube	wide	4 mm
		centres	15 mm
A2	Slit every 2 nd tube	wide	4 mm
		centres	34 mm
A4	Slit every 4 th tube	wide	4 mm
		centres	72 mm
A10	Asymmetrically slit	wide	4 mm
	centres: 15, 34 and 72 mm		

Type D

For sound insulation; slit on the finished face, with the back of the panel ungrooved. In combination with A type, the acoustic requirements can be solved by preserving an uniform surface on the visual level.

D1	Slit every tube	wide	4 mm
		centres	15 mm
D2	Slit every 2 nd tube	wide	4 mm
		centres	34 mm
D4	Slit every 4 th tube	wide	4 mm
		centres	72 mm
D10	Asymmetrically slit	wide	4 mm
	centres : 15, 34 and 72 mm		
D0	Not grooved – sound reflective)		

Fire performance

Thanks to the panel core B2 and B1 (DIN 4102), the use of **Deweton®** is possible for projects normally flammable and, respectively, difficult to ignite. **Deweton®** are also classified Euroclasse B – s2, d0. This is available for the types A1, D1, A2, D2, A4 and D4.

Panel sizes (mm)

panel core B2	panel core B1
1820 x 604	1820 x 604
2600 x 604	2600 x 604
3200 x 604	3200 x 604

Thickness (mm)

24 mm	24 mm
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- **Deweton®** panels are supplied with clean cut edges (tolerance +/- 2 mm length).
- **Deweton®** panels can be supplied, to order, pre-cut to your requirements (tolerance ± 0,5 mm).
- Finished long edges, with timber veneer or melamine, can be supplied to order.

Thermal insulation:

approximately 0,15 W/m² k

Weight:

Panel core B2 approximately 10,5 kg/m²

Panel core B1 approximately 13,0 kg/m²

Installation:

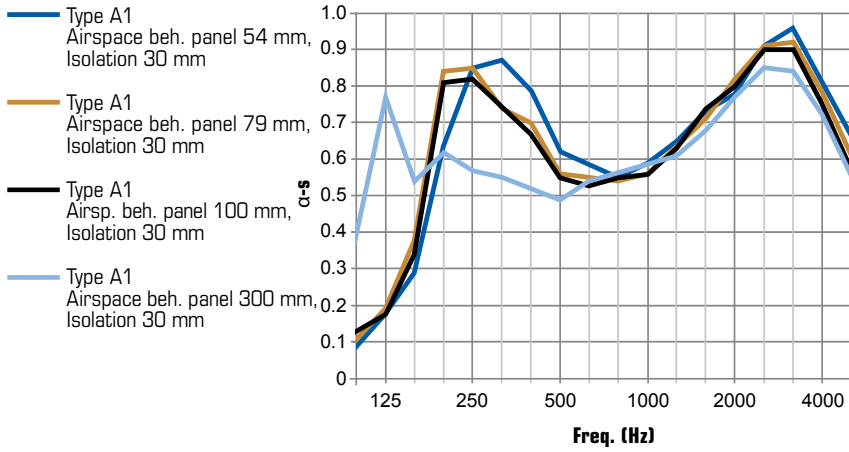
Deweton® panels are fixed by means of special staples or nailing through the panel grooves. For installation on ceilings or suspended ceilings, we recommend that a wood glue is also used between the panel back and batten-face.

Structure:

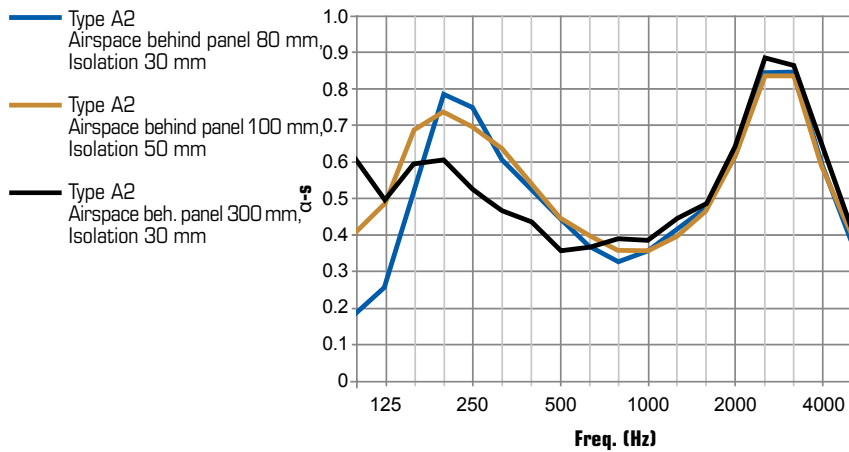
See chapter "Specification text" for **Deweton®** panels on page 13

Sound absorption data

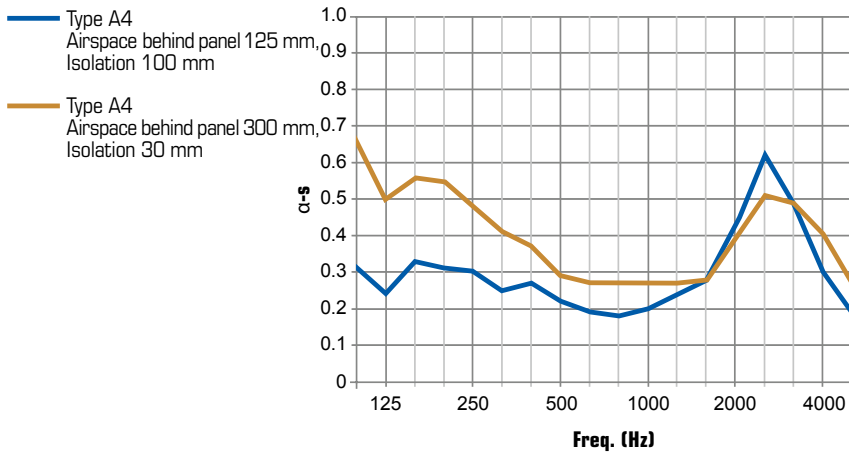
DEWETON® TYPE A1



DEWETON® TYPE A2

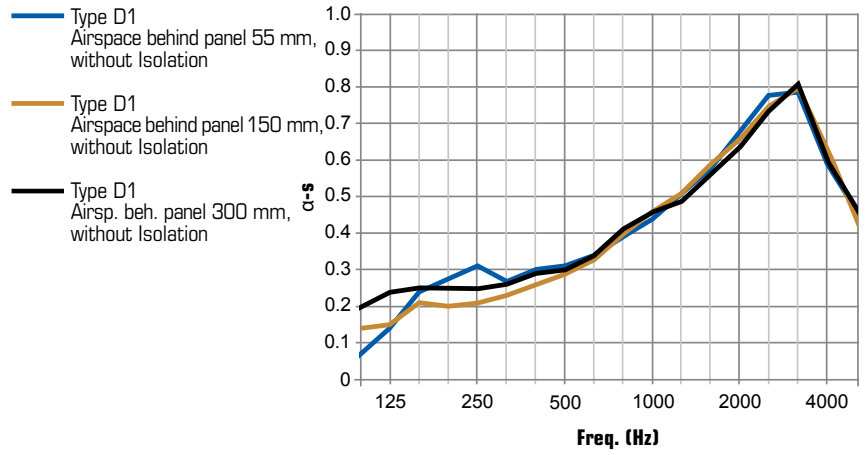


DEWETON® TYPE A4

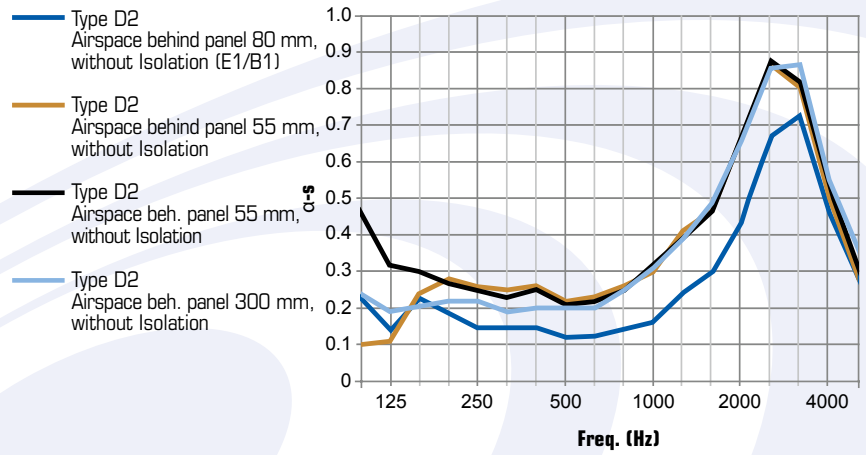




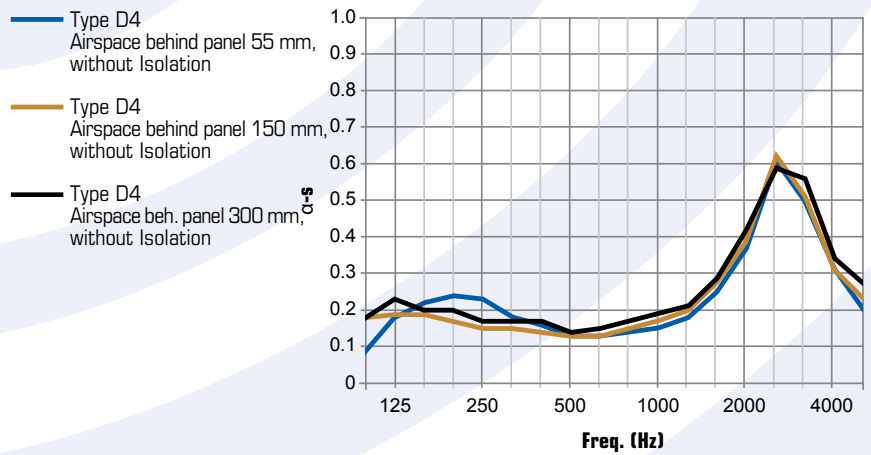
DEWETON® TYPE D1



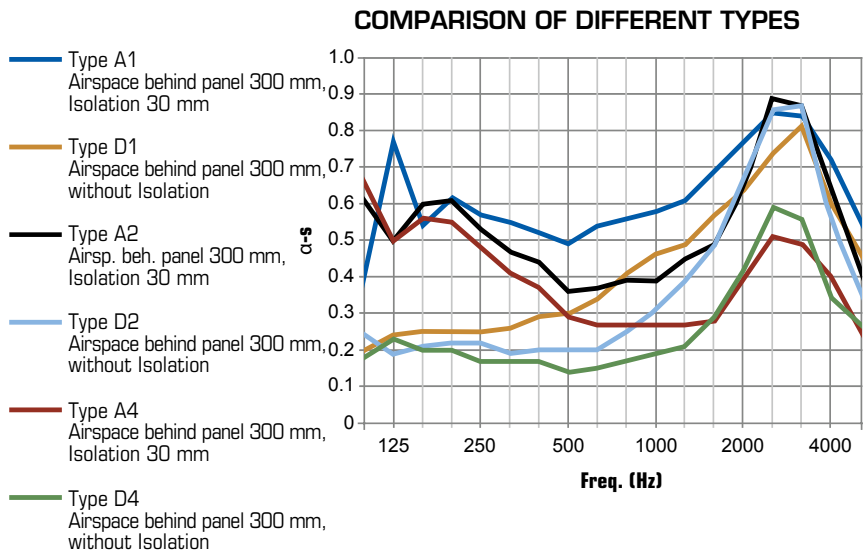
DEWETON® TYPE D2



DEWETON® TYPE D4

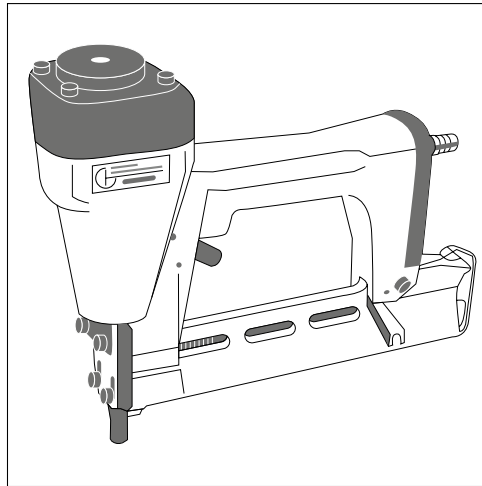


Sound absorption data



Conference Room University Hanover, DE – Hanover

Installation



For quick and easy installation of our acoustic panel **Deweton**[®], we recommend you to use a compressed-air stapler.

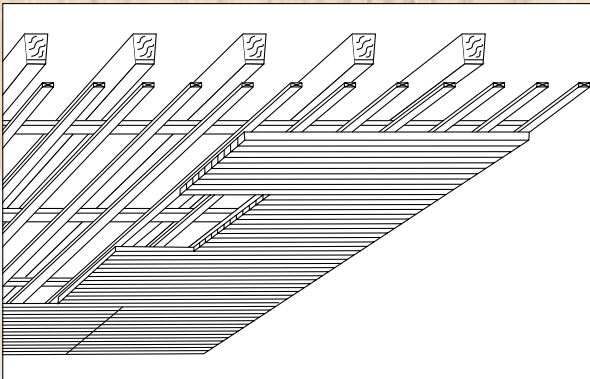
We give you the possibility to buy or rent (against guarantee) this tool. We also provide you the corresponding staples (only available by packs with 4000 items).

In order to ensure the security of the installation of the acoustic panels, it is recommended to put approximately 40 staples per square meter (installation for ball impact resistance).

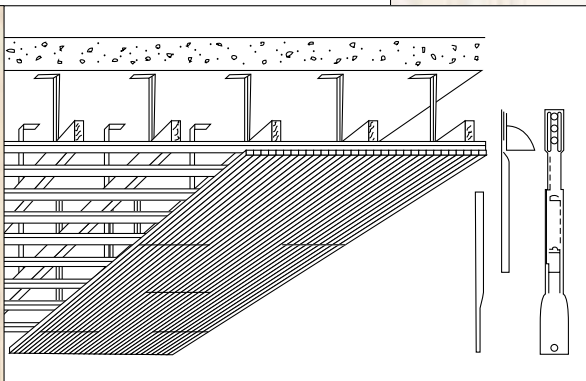
Technical Data

Type of tool	Stapler 3423
Dimensions (height/length)	225 / 295 mm
Weight (without fasteners)	1,8 kg
Activation mode	single sequential actuation or contact actuation
Compressed air maximum permissible operating pressure	8 bar / 0,8 MPa
A-weighted single-event emission sound pressure level at work station ($L_{pA, 1s}$)	81 dB
A-weighted single-event sound power level ($L_{WA, 1s, d}$)	94 dB

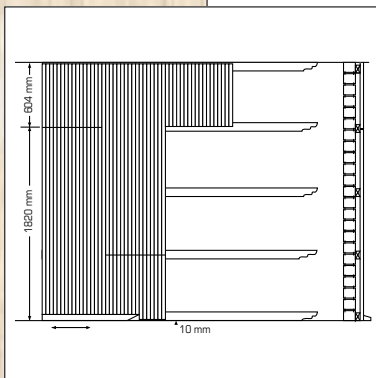
Examples of supporting structure and ceiling cladding



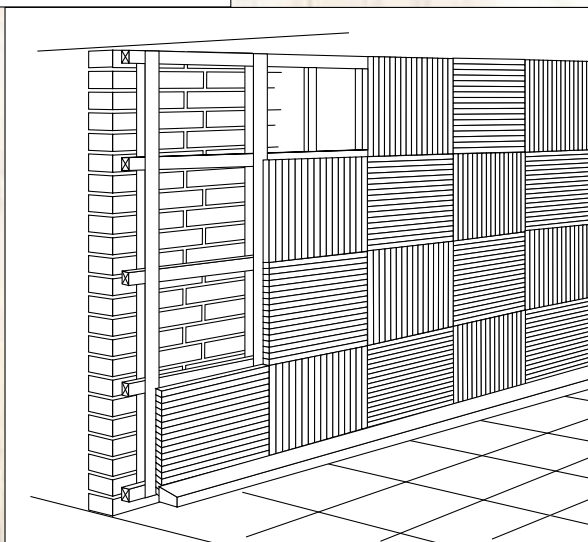
The suspension battens are fixed to the ceiling slab, spaced 80 to 100 cm apart, perpendicular to the beams of the substructure for the cladding. Their function is to compensate for unevenness in the ceiling slab, allow space for overhead piping and wiring, gain extra space for flush lights, and facilitate ventilation above the cladding.



Gap between panels 4 mm



Line of panels



Chessboard style

If **Deweton®** acoustic panels are laid chessboard style, the batten width of 60 mm indicated will probably be too narrow. If the supporting structure is built by the client, battens 80 to 100 mm wide should be used.

Specification text for Deweton® acoustic panels

Fixing to wall surfaces

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 60 cm centres, at 90 degrees to the direction of the panel surface grooving. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Deweton®** panels are fixed to the structure through the surface grooving at approximately 15 cm centres on each batten.

Pos 02

Fixing of extruded chipboard 25 mm thick with 12 mm diameter tubular core, with 4 mm wide surface grooving.....mm, type..... Fixing in each groove. A 4 mm gap is left between adjacent panels at both sides and ends.

Fixing direct to ceilings without suspension

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 45 cm centres, at 90 degrees to the direction of the panel surface grooving. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Deweton®** panels are fixed to the structure through the surface grooving at approximately 15 cm centres on each batten.

Pos 02

see above

Fixing to suspended ceilings

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 45 cm centres, at 90 degrees to the direction of the panel surface grooving, to a proprietary metal sub-grid system. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. Use of the suspension systems T-24, etc., in order to arrive at the wished height of ceiling. **Deweton®** panels are fixed to the structure through the surface grooving at approximately 15 cm centres on each batten.

Pos 02

see above

Installation of a wall system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at **see below**, at 90 degrees to the direction of the panel surface grooving, to a proprietary metal sus-grid system. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Deweton®** panels are fixed to the structure through the surface grooving at approximately 15 cm centres on each batten.

Slit every tube	batten centres: 350 mm
Slit every 2 nd tube	batten centres: 350 mm
Slit every 4 th tube	batten centres: 350 mm (Deweton® – element fixed at each 2 nd batten)

Pos 02

see above

Installation of a ceiling system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at **see below**, at 90 degrees to the direction of the panel surface grooving, to a proprietary metal sus-grid system. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Deweton®** panels are fixed to the structure through the surface grooving at approximately 15 cm centres on each batten.

Slit every tube	batten centres: 350 mm
Slit every 2 nd tube	batten centres: 350 mm
Slit every 4 th tube	batten centres: 350 mm (Deweton® – element fixed at each 2 nd batten)

Pos 02

see above



Hospital Deggendorf, D – Deggendorf



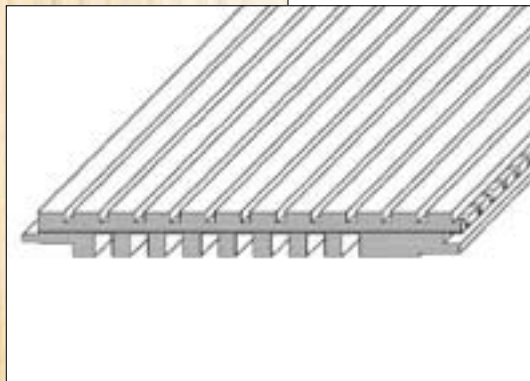
Conference Room University Hanover, DE – Hanover



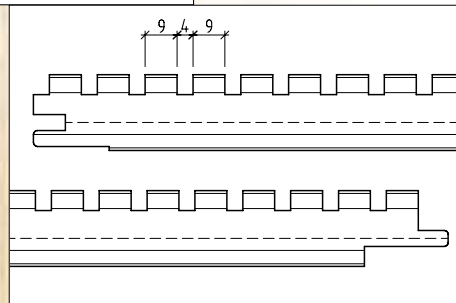
School Sigmaringen, DE – Sigmaringen

References

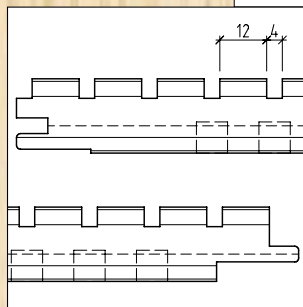
- **China:** Hong Kong Contemporary Art Museum, Hong Kong
- **France:** Defense Ministry, Processing data Room, Dijon
Citroën, Projection room, St-Ouen
Dassault, Offices, St-Cloud
School, Nanterre
Maison Lafitte, Restaurant, St-Nicolas
- **Germany:** Airport, Frankfurt am Main
Daimler Benz AG, Mannheim
ZDF Studios, Unterföhring
Hospital Deggendorf, Deggendorf
University, Hanover
School Sigmaringen
- **Jordan:** United Jordanian Company for Investments, Amman
- **Korea:** Inter Airport Radio Studio, Seoul
- **Norway:** Adger University
- **Qatar:** Qatar University, Doha
- **Scotland:** Community Centre, Bernera
- **Singapore:** Premas Training Room, Singapore
Science Center, Singapore
- **Switzerland:** Barracks Monte Ceneri, Rivera
Basler Insurance, Basle
Stock Exchange, Basle
Stock Exchange, Zurich
Ciba-Geigy, Basle
ETH, Zurich
Hall of Jubilee, Macolin
Cantonal Hospital, Lucerne
Swiss Mobiliar Insurance, Berne
Opera House, Zurich
BUWAL, Uttigen
MC Donald Restaurant, Freiburg
- **United Arab Emirates:** Latifa School, Dubai
Sheikh Rashid School, Dubai
Theatre Engineering Trading Co., Sharjah
Library, Abu Dhabi
SCS Multipurpose Hall, Sharjah
- **United Kingdom:** American Community School, Samsung UK, Headquarters, Billingham
St. Mary's School, Cambridge
Alexander Gibson Opera School, Glasgow
Government Conference Centre, London
Erskine Hospital—Main Build, Renfrewshire
Brook Western Technical College, Corby
Northumbria University, Newcastle
Blossom House School, London
North Glasgow College, Glasgow



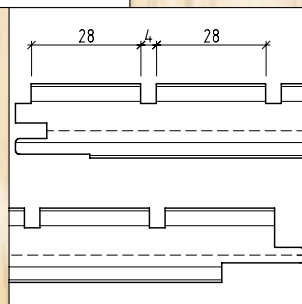
Creawood® Type A
(with additional grooving on the back)



Creawood® Type D9



Creawood®
Type D12 et A12



Creawood® Type D28

Creawood® acoustic slats

- **Creawood®** acoustic slats are made from non fire rated, fire retardant, coloured or moisture resisting MDF core panels.
- The acoustic slats are made to order according to your requirements. You can choose between several standard lengths and, of course, we can also make non-standard lengths.
- **Creawood®** is available with three surface face patterns available in types A and D according to surface grooving and dimensions. The different types can be used together to create an attractive jointless surface.
- **Creawood®** acoustic slats can be supplied wood veneered or lacquered in the range of RAL colours.

Types: There are two types of **Creawood®** acoustic slats as follows:

Type A

Type A for sound absorption. With grooving in the length on the surface and back of the panel and grooving in the panel core. **Creawood®** type A offers excellent values of sound absorption, able to fulfil the highest requirements.

Type A9	groove 4 mm, centres 9 mm
Type A10	groove 3 mm, centres 10 mm
Type A12	groove 4 mm, centres 12 mm
Type A13	groove 3 mm, centres 13 mm
Type A28	groove 4 mm, centres 28 mm
Type A29	groove 3 mm, centres 29 mm

Type D

Type D for sound insulation. The surface is grooved in the length, and the middle layer grooved transversely. The rear of the panel is not grooved. These Type D insulating panels may be combined in the same area with Type A sound absorbing panels and still achieve a harmonious visual appearance.

Type D9	groove 4 mm, centres 9 mm
Type D10	groove 3 mm, centres 10 mm
Type D12	groove 4 mm, centres 12 mm
Type D13	groove 3 mm, centres 13 mm
Type D28	groove 4 mm, centres 28 mm
Type D29	groove 3 mm, centres 29 mm
Type D0	ungrooved (reflective panel)

Acoustic Fleece:

To order, the rear surface of Type A can be supplied with a black acoustic fleece. This improves the sound absorption and prevents the extraction of insulation fibre backing.

Fire Rating:

Thanks to the panel core B2 and B1 (DIN 4102), the use of **Creawood®** is possible for projects normally flammable and, respectively, difficult to ignite. **Creawood®** are also classified **Euroclasse B – s2, d0**.

Slat sizes (mm)

	Panel core B2	Panel core B1	Panel core black or moisture resisting	Panel core colour
2000 x 199 mm	✓			
2050 x 199 mm			✓	✓
2600 x 199 mm	✓	✓	✓	✓
3000 x 199 mm	✓	✓		
3600 x 199 mm	✓	✓		
4080 x 199 mm	✓		✓	

(covering width: 192 mm)

Thickness (mm)

19 mm	21 mm	21 mm	21 mm
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■ **Creawood®** acoustic slats have clean cut ends. They can be re-cut on site (tolerance on the length +/- 2 mm).

■ **Creawood®** acoustic slats can be supplied, to order, pre-cut to your requirements (tolerance ± 0,5 mm).

Thermal Insulation: approximately 0,12 W/m² k

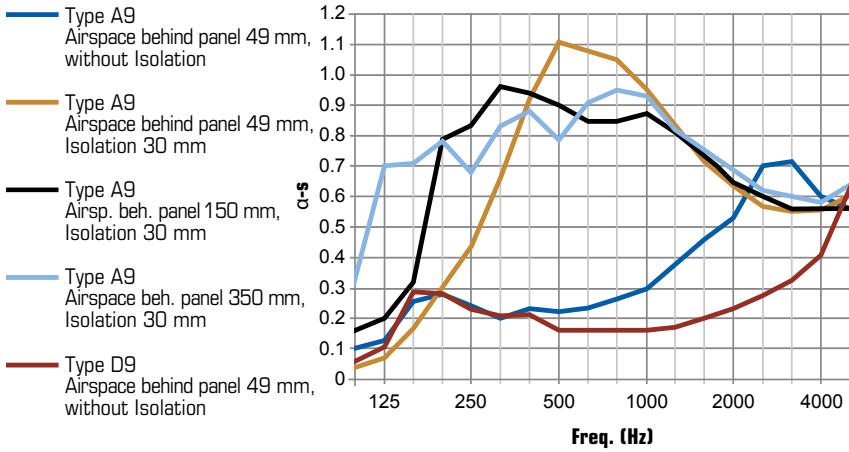
Weight:
Type A12: approximately 10,5 kg/m²
Type D28: approximately 13,5 kg/m²

Installation: **Creawood®** acoustic slats are fixed on the length by fixing clips. These, as well as the corresponding screws (for wood support system) can be obtained by **TAVAPAN Wood-design** and are delivered with the slats.

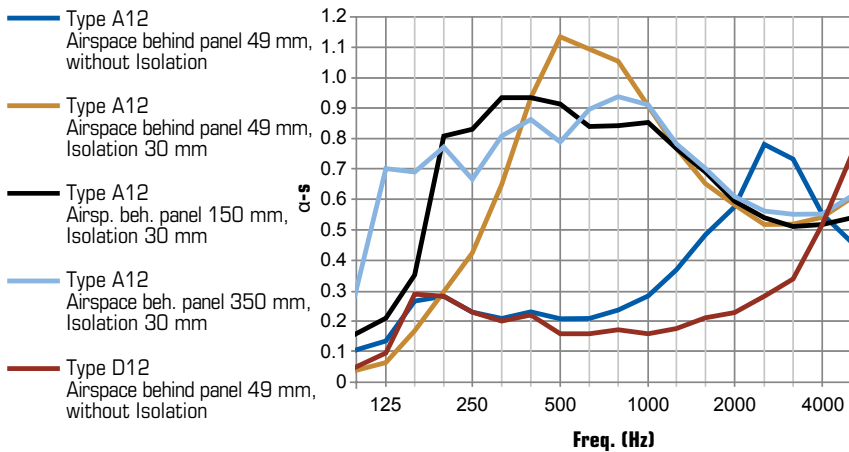
Structure: See chapter "Specification Text" for **Creawood®** acoustic slats, page 21

Sound absorption data

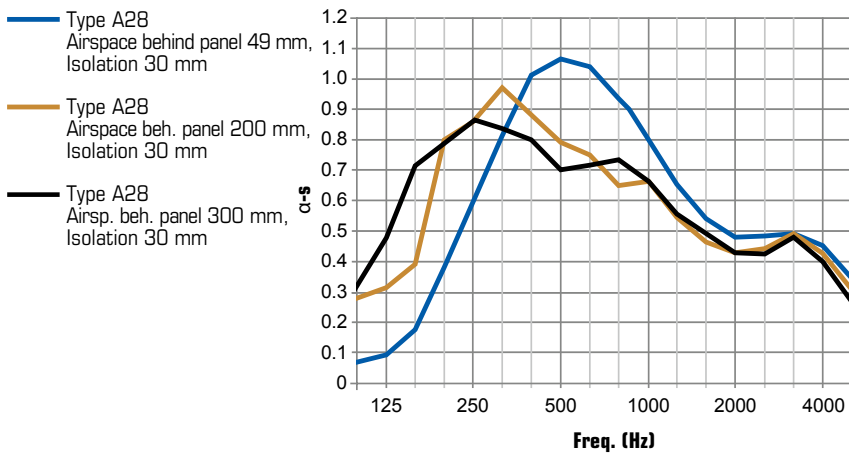
CREAWOOD® TYPE A9 AND D9



CREAWOOD® TYPE A12 AND D12

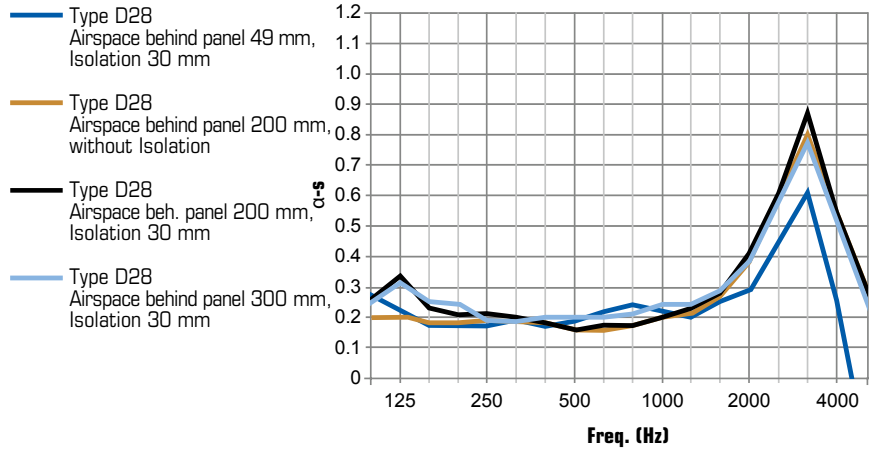


CREAWOOD® TYPE A28

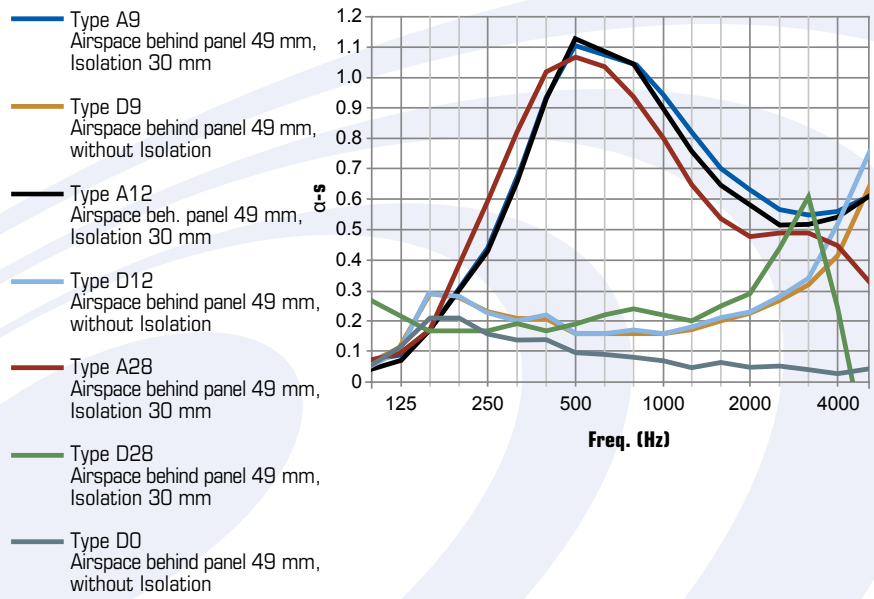




CREAWOOD® TYPE D28



COMPARISON OF DIFFERENT TYPES

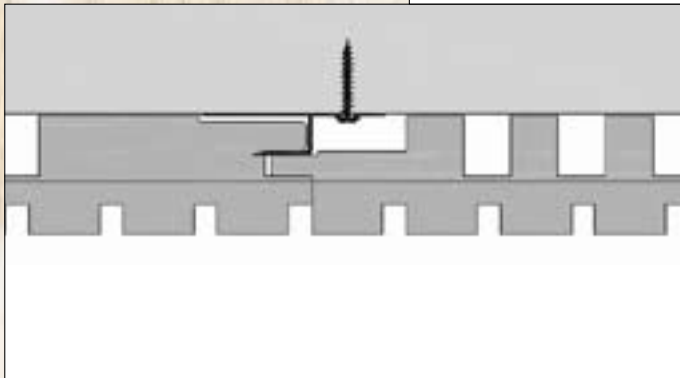


Installation



Fixing clips for wood support system
Article no. 103 SK SB

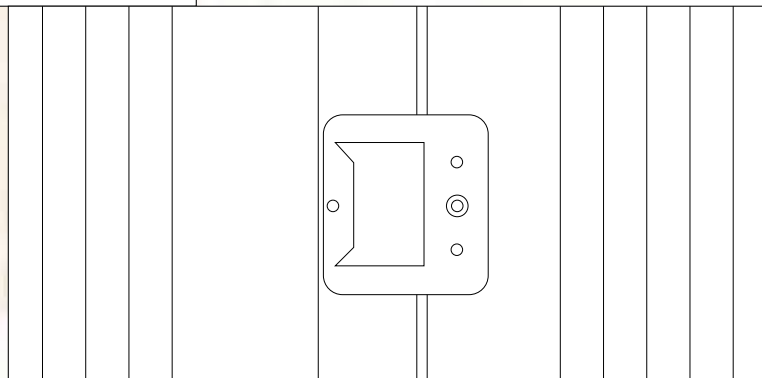
Fixing clips for metal support system
Article no. 303 SB



Fixing on wood batten / seen profile

We offer you the possibility of an assembly with invisible fixing thanks to the fixing clips for metal or wood support system. The fixing clips slip easily into the groove-crested profile of the **Creawood®** acoustic slats.

We assure you a simple, fast and clean installation.



Fixing on wood batten / seen back of the slat

Specification text for Creawood® acoustic slats

Fixing to wall surfaces

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 60 cm centres, at 90 degrees to the direction of the **Creawood®** slats. This method allows the edges of adjacent slats to rest against a batten. The structure must be perfectly level. Use of the suspension systems T-24. **Creawood®** slats are stapled to the structure through the edge grooving or with special fixing clips on each batten.

Pos 02

Cladding with **Creawood®** acoustic slats grooves mm, type Real wood veneered 19 mm thick standard core (B2) or 21 mm thick for fire rated core (B1). Fixed to the structure as previously described.

Fixing direct to ceilings without suspension

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 50 cm centres, at 90 degrees to the direction of the **Creawood®** slats. This method allows the edges of adjacent slats to rest against a batten. The structure must be perfectly level. **Creawood®** slats are stapled to the structure through the edge grooving or with special fixing clips on each batten.

Pos 02

see above

Fixing to suspended ceilings

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 50 cm centres, at 90 degrees to the direction of the **Creawood®** slats, to a proprietary metal sub-grid system. This method allows the edges of adjacent slats to rest against a batten. The structure must be perfectly level. Use of the suspension systems T-24. **Creawood®** slats are stapled to the structure through the edge grooving or with special fixing clips on each batten.

Pos 02

see above

Installation of a wall system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood batten at **see below**, at 90 degrees to the direction of the **Creawood®** slats. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. Use of the suspension systems T-24. **Creawood®** slats are stapled to the structure through the edge grooving or with special fixing clips on each batten.

Type A9 & D9 / A10 & D10	batten centres: 250 mm
Type A12 & D12 / A13 & D13	batten centres: 250 mm
Type A28 & D28 / A29 & D29	batten centres: 350 mm

Pos 02

see above

Installation of a ceiling system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood batten at **see below**, at 90 degrees to the direction of the **Creawood®** slats. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. Use of the suspension systems T-24. **Creawood®** slats are stapled to the structure through the edge grooving or with special fixing clips on each batten.

Type A9 & D9 / A10 & D10	batten centres: 250 mm
Type A12 & D12 / A13 & D13	batten centres: 250 mm
Type A28 & D28 / A29 & D29	batten centres: 350 mm

Pos 02

see above



University of Mannheim, DE – Mannheim



University of Mannheim, DE – Mannheim



Public High School Rosenheim, DE – Rosenheim

References

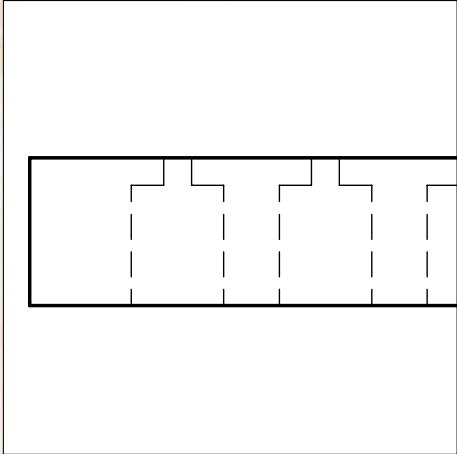
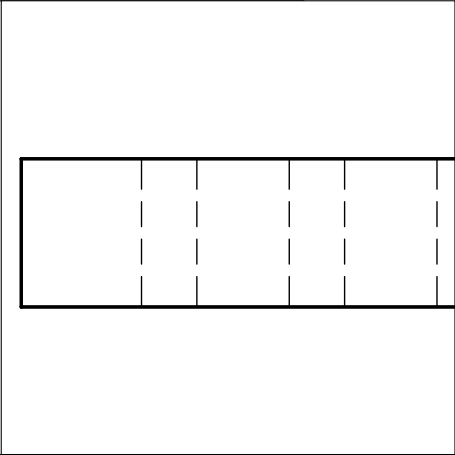
- **Canada:** Royal Ottawa Hospital, Ottawa
NEWALTA, Calgary
Okotoks Municipal Chambers, Calgary
- **China:** UBS Office, Hong Kong
North Point Church, Hong Kong
- **France:** Military Academy, Amphitheatre Desvallières Bourcet, Paris
University, Strasbourg
ZAC Métro, Asnières
Hotel Dieu Hospital, Nantes
- **Germany:** High school Rosenheim, Rosenheim
Hospital Deggendorf, Deggendorf
University of Mannheim, Auditorium and laboratory building, Mannheim
- **Korea:** Castle Peak Hospital, Poongjin Interior Design Inc., Seoul
- **Taiwan:** Chung Shan Hall, Taipei
- **United Arab Emirates:** Heritage Theatre, Abu Dhabi
Halul Island, Doha, Qatar
IT Collage Al Ain, Dubai
- **United Kingdom:** North Glasgow College, Glasgow



Military Academy, Amphitheatre Desvallières Bourcet, FR – Paris



Military Academy, Amphitheatre Desvallières Bourcet, FR – Paris



Tavaperf with parallel cross perforation

Tavaperf perforated in rows
(front side 3/5 mm, back side 10/12 mm)

Tavaperf acoustic panels

- **Tavaperf** are fabricated from MDF standard, coloured MDF, chipboard, OSB/3 and from non combustible Sasmox (composite panels made from wood fibres bonded with gypsum).
- **Tavaperf** panels are made to order according to your requirements. You can choose between standard sizes and, of course, we can also make non-standard lengths and widths.
- **Tavaperf** panels are available with parallel cross perforations, which provide excellent sound absorption in medium and high frequencies. Also available perforated in rows providing excellent sound absorption in low frequencies.
- The different panel core – MDF B2 and B1, OSB/3, chipboard and plywood – may be used for project normally flammable or difficult to ignite. The Sasmox panel may be used in areas requiring incombustible materials (fire escape areas, corridors, lift cars, etc.).
- **Tavaperf** panels are available finished with wood veneer, melamine, or lacquered in any of the RAL/NCS range of colours. They are available with unperforated margins or borders, cut-outs, with half depth perforations and various edge treatments.

Perforations available: (for standard B2 and B1 cores), incombustible A2 core minimum Ø 5 mm:

Spacing*: 16/16 mm
32/32 mm

Diameters of holes*: 3, 5, 6, 8, 10 and 12 mm
3, 5, 6, 8, 10 and 12 mm
* other perforations available on request

Panel cores	MDF B2 normally flammable			MDF B1 difficult to ignite (core panel B1 tested)			Gypsum fibreboard A2 incombustible (core panel A2 tested)	
	veneered	lacquered	melamine	veneered	lacquered	melamine	veneered	lacquered
Thickness	17mm/20mm	16mm/19mm	16 mm	17mm/20mm	16mm/19mm	16 mm	16mm/19mm	15mm/18mm
Max. size	4080x1250	4220x1300	4220x1300	4080x1250	4220x1300	4220x1300	2980x1200	2980x1200
Ideal size	2780x1020 2050x500	2780x1020 2050x500	2780x1020 2050x500	2780x1020 2050x500	2780x1020 2050x500	2780x1020 2050x500	2580x600 1200x600	2580x600 1200x600

Ideal sizes: are supplied according to the base sizes of core material (**intermediate sizes are available!**)

Acoustic Fleece: To order, the rear panels of **Tavaperf** can be supplied with a black acoustic fleece. This improves the sound absorption and prevents the migration of insulation fibre backing.

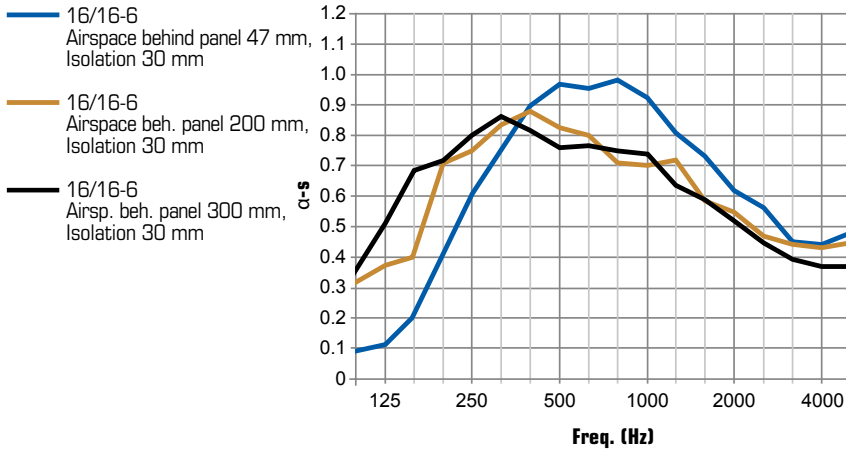
Fire Rating: Panel cores are classified according to the German norm DIN 4102. B2 = normally flammable, B1 = difficult to ignite, A2 = incombustible. **Tavaperf** are also classified **Euroclasse B – s2, d0**.

Installation: **Tavaperf** panels may be installed in a number of ways such as screw fixing through half depth perforations (the positions of which can be determined at the time of ordering). Also by way of metal profile systems, using grooved edge Tavaperf panels – please request this at the time of ordering.

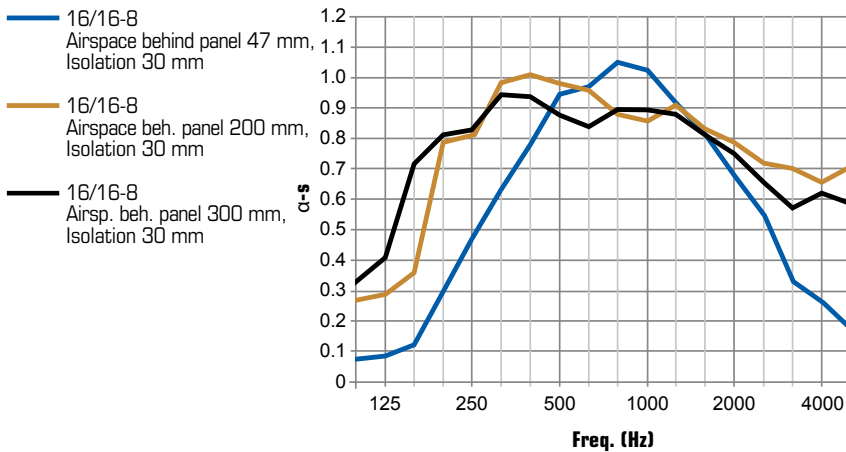
Structure: See chapter "Specification Text" for **Tavaperf** acoustic panels, page 30

Sound absorption data

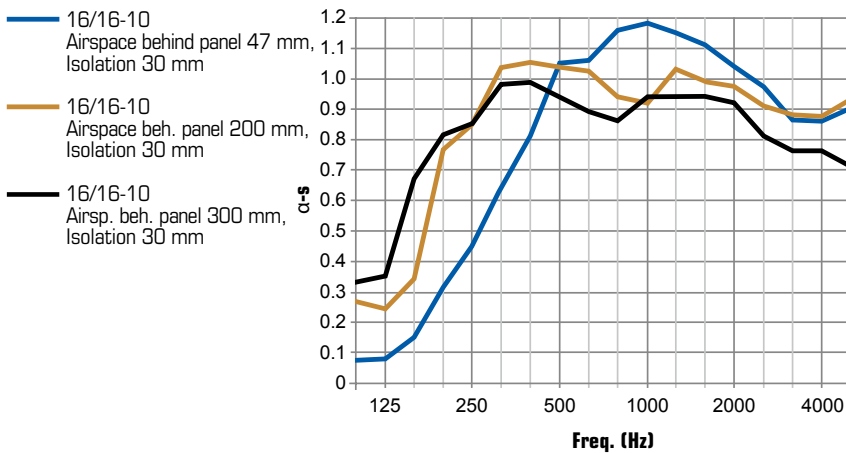
TAVAPERF 16/16-6



TAVAPERF 16/16-8

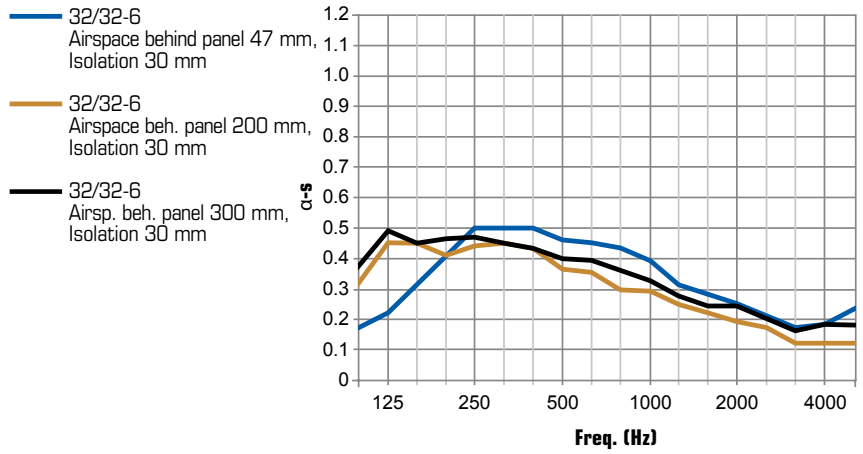


TAVAPERF 16/16-10

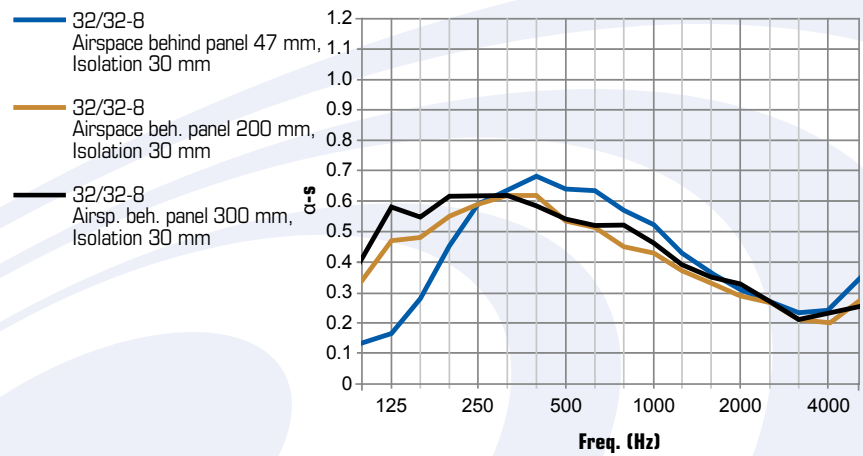




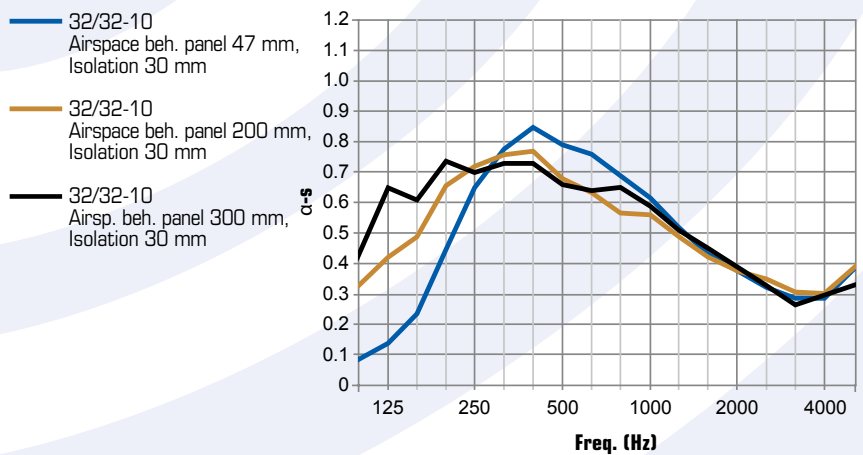
TAVAPERF 32/32-6



TAVAPERF 32/32-8



TAVAPERF 32/32-10



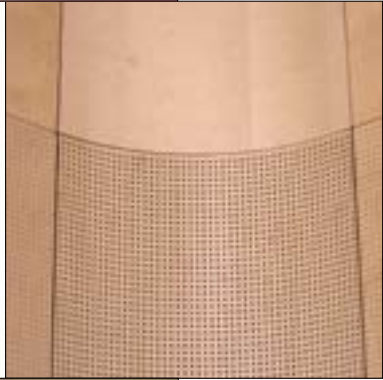


Primary school – Sports hall Conthey, CH – Conthey



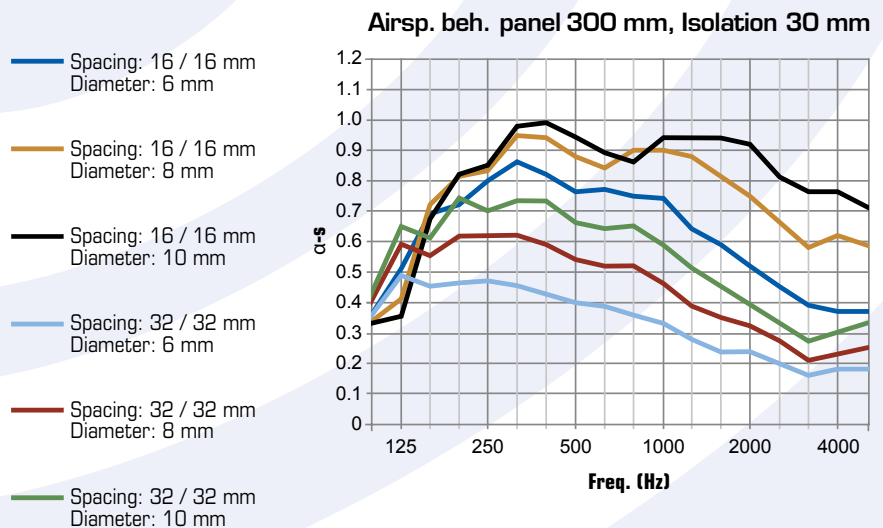
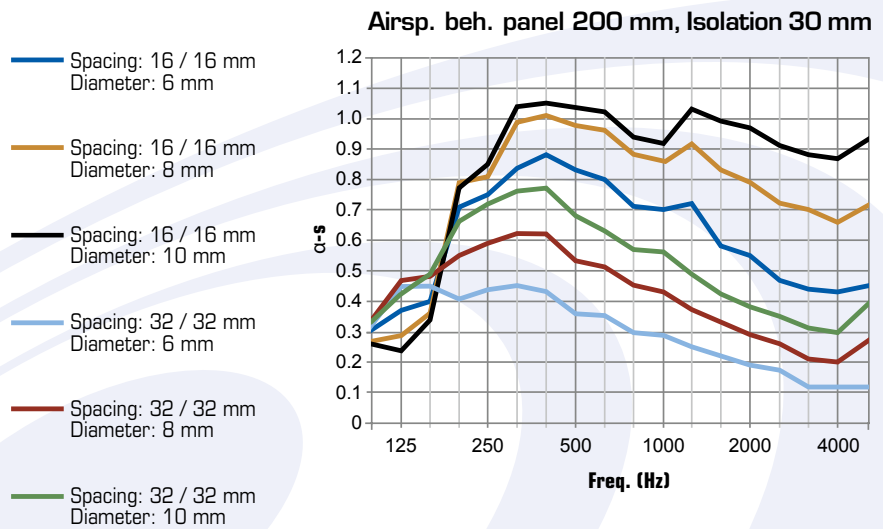
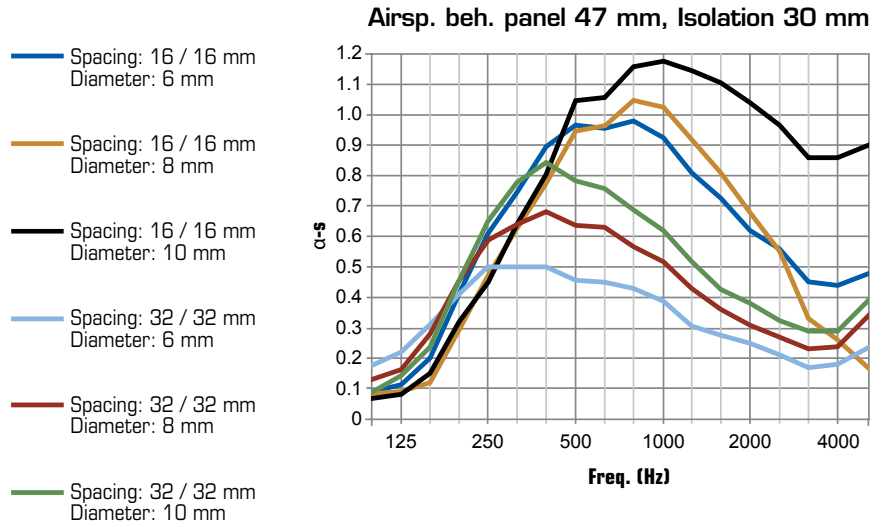
Primary school – Sports hall Conthey, CH – Conthey

The Perrerets, CH – Nyon



The Perrerets, CH – Nyon

Sound absorption data



Specification text for Tavaperf acoustic panels

Fixing to wall surfaces

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 50 cm centres, parallel to the panels. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Tavaperf** panels are screwed through half depth perforations to the structure.

Pos 02

Cladding with **Tavaperf** perforated acoustic panels. **Perforation spacing (32/32 or 16/16) ... , diameters of holes ... , real wood veneered ... , ...mm thick. Panel core in ... (kind of panel core, B2 and B1 only with MDF and Chipboard, A2 only possible with composite panels). Tavaperf** elements are fixed with appropriate screws through half depth perforations on the sub structure or using a suitable mounting system.

Fixing direct to ceilings without suspension

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 50 cm centres, parallel to the panels. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Tavaperf** panels are screwed through half depth perforations to the structure.

Pos 02

see above

Fixing to suspended ceilings

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at maximum 50 cm centres, parallel to the panels. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. Use of the suspension system T-24. **Tavaperf** panels are screwed through half depth perforations to the structure.

Pos 02

see above

Installation of a wall system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at **see below** centres, parallel to the panels. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Tavaperf** panels are screwed through half depth perforations to the structure.

MDF B1/B2	16 /16, 8 mm batten centres: 500 mm
MDF B1/B2	32 /32, 8 mm batten centres: 500 mm
OSB/3	16 /16, 8 mm batten centres: 500 mm
Gypsum Panel A2	16 /16, 8 mm batten centres: 500 mm

Pos 02

see above

Installation of a ceiling system for ball impact resistance (according to DIN Norm 18032, 3rd part)

Pos 01

Fix a structure comprising 40 x 60 mm planed softwood battens at **see below** centres, parallel to the panels. This method allows the edges of adjacent panels to rest against a batten. The structure must be perfectly level. **Tavaperf** panels are screwed through half depth perforations to the structure.

MDF B1/B2	16 /16, 8 mm batten centres: 500 mm
MDF B1/B2	32 /32, 8 mm batten centres: 500 mm
OSB/3	16 /16, 8 mm batten centres: 500 mm
Gypsum Panel A2	16 /16, 8 mm batten centres: 500 mm

Pos 02

see above

References

- France:**
 - Dassault, Aerospace, St.-Cloud
 - Registration Studios, Fleury Mérogis
 - LVMH, Offices, Boulogne sur Seine
 - Library, Villemomble
 - School of Civil Aviation, Toulouse
 - Assemblée Nationale, Paris
- Germany:**
 - Winzerhof, Nordheim
- Israel:**
 - Herzlia University
 - Phonix Insurance
 - Hamizrahi Yahud Bank
 - Scania, Colmobil
- Switzerland:**
 - Primary school, Sports hall, Plan-Conthey
 - University, Sportshall, Freiburg
 - The Perrerets, Nyon
- United Kingdom:**
 - New IOM Prison, Isle of Man
 - Manorhead Care Home, Hindhead



The Perrerets, CH – Nyon



Sports hall, University, CH – Freiburg



Creawood®, Clinic Deggendorf,
DE – Deggendorf



Tavaperf, Aerospace Dassault,
FR – St.Cloud



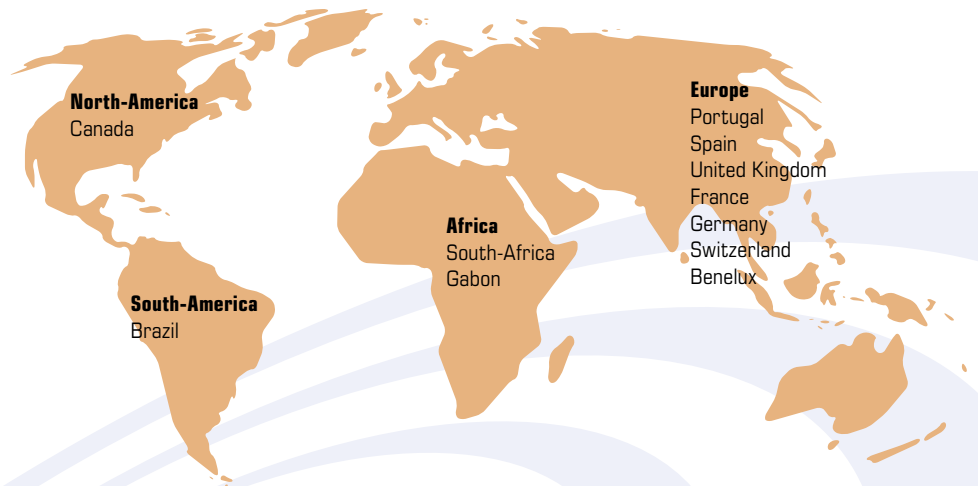
Deweton®, Aerospace Dassault, FR – St.Cloud

Service from TAVAPAN

Visit our website at www.tavapan.ch for our complete range of sound absorption test data, ball impact resistance tests and other technical data and information.

We are at your service to provide information and help you with the choice of finishes for your building. Samples of all our standard product range are available free of charge. Special samples can be manufactured to order and depending on the specification we may request a contribution towards the cost which would then be offset against any resulting order.

Use this service!



Tavapan Woodesign products are backed by the resources of our parent company, SONAE Industries, who are one of the world's largest producers of high quality timber based products.



Une entreprise du groupe



Information to Tavapan Wooddesign acoustic products

Fire protection:	We only supply panels which comply with the European emission values E1.	
Fire class:	German DIN Norm B2:	Swiss Norm CH 4.3
	German DIN Norm B1:	Swiss Norm CH 5.3
	German DIN Norm A2:	Swiss Norm CH 6q.3
Stability:	Our panels are made from hygroscopic materials. Their humidity is determined by the environment in which they are used. The variation of humidity and their surroundings will affect expansion and contraction of these wood based panels. Their installation should not be undertaken in rooms with a humidity level in excess of 70 %. We recommend that Tavapan Wooddesign panels are acclimatised in the room of installation 2 to 3 days beforehand. The acoustic panels should be protected against humidity and water. It is imperative to take account of these facts at the time of the panel installation.	
Colour Variations:	The natural or black core MDF panels are produced industrially. It is possible there will be slight colour variations even including those in the same delivery. The finishing lacquer may accentuate these colour variations. All these differences evoked above don't justify a complaint.	
Finishing:	All Tavapan Wooddesign panels can be finished in any commercially available veneer and these are carefully selected specifically for each project to ensure the best possible continuity of appearance. Book matched/sequenced veneers are available subject to a surcharge and must be requested at time of order. However wood is a natural product and there may be variations in veneer colour, grain and natural markings. These are all natural variations and would not be acceptable grounds for rejection of our materials. Customers are invited to be present at the veneer selection process and approve the veneers prior to the start of manufacture.	
Sports Halls:	Different Tavapan Wooddesign products have been tested by The Institute Otto Graf of the University of Stuttgart for their resistance to ball impact according to DIN 18032.	

**Acoustic
Products**



**Movable Walls
Acoustic Panels**

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A company of the group

