

**Acoustic comfort
born out of wood**



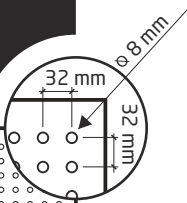
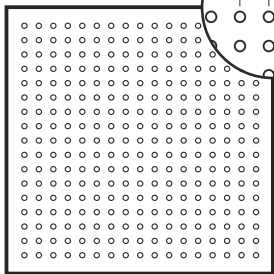


Great National Theater of Peru



T32

ideatec
advanced acoustic solutions



Studied data

Dimensions

600 X 600 mm - 2' X 2'

Diameter

8 mm - 5/16"

Perforations

289

Perforation percentage

4,04%

Perforation-available

4 mm, 6 mm, 8 mm and 10 mm

1/8", 1/4", 5/16" & 3/8"

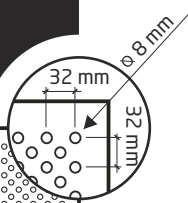
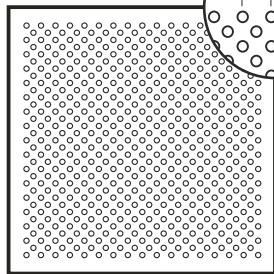


Commerce Chambre - France



T16

ideatec
advanced acoustic solutions



Studied data

Dimensions

600 X 600 mm - 2' X 2'

Diameter

8 mm - 5/16"

Perforations

545

Perforation percentage

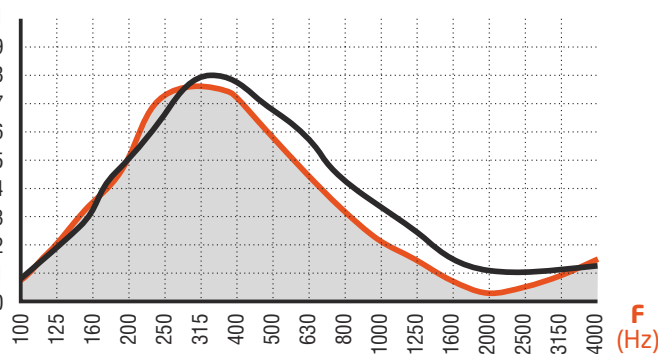
7,61%

Perforation-available

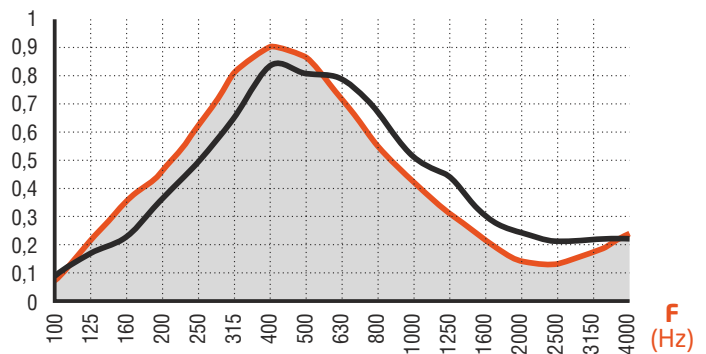
4 mm, 6 mm, 8 mm and 10 mm

1/8", 1/4", 5/16" & 3/8"

Absorption coefficient



Absorption coefficient



test conditions

— A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Medium acoustic absorption coefficient



$\alpha_m = 0,30$
 $\alpha_m = 0,40$

Average acoustic absorption coefficient



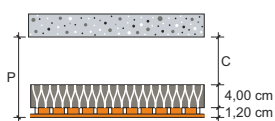
$\alpha_w = 0,40 (L^*)$
 $\alpha_w = 0,45 (M^*)$

Noise reduction coefficient



NRC = 0,40
NRC = 0,45

* Material with absorption coefficients risen to medium (M) and low (L) frequencies.



test conditions

— A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16")

Medium acoustic absorption coefficient



$\alpha_m = 0,50$
 $\alpha_m = 0,55$

Average acoustic absorption coefficient



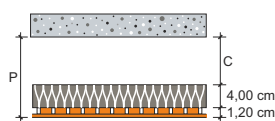
$\alpha_w = 0,55 (L^*)$
 $\alpha_w = 0,55 (M^*)$

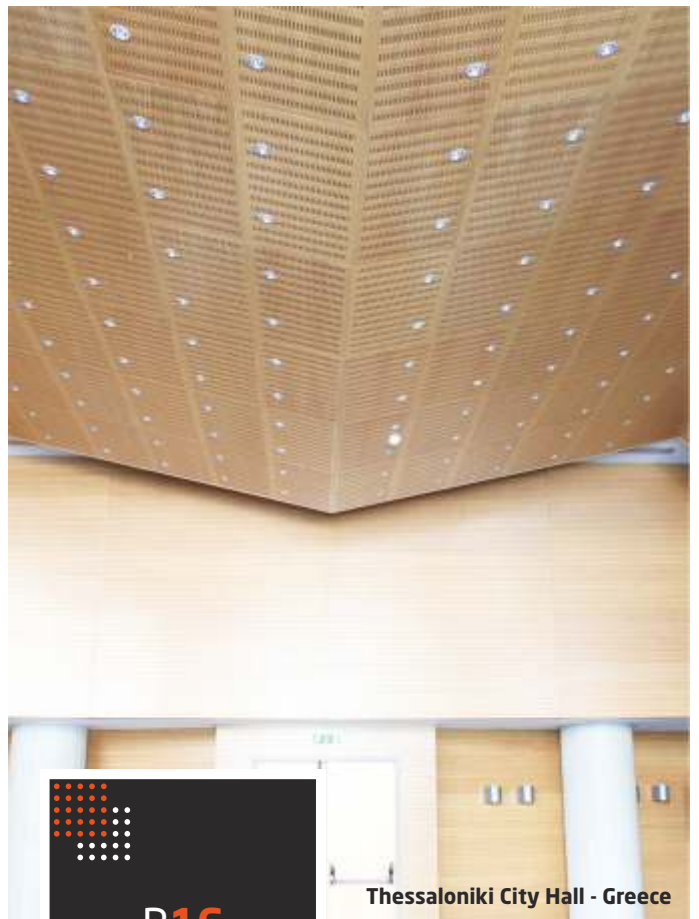
Noise reduction coefficient



NRC = 0,55
NRC = 0,55

* Material with absorption coefficients risen to medium (M) and low (L) frequencies.





Music School - Brazil

Thessaloniki City Hall - Greece

Studied data

Studied data

Dimensions

Dimensions

600 X 600 mm - 2' X 2'

600 X 600 mm - 2' X 2'

Slot

Slot

6 X 61 mm - 1/4" X 2' 3/8"

6 X 61 mm - 1/4" X 2' 3/8"

Number of slots

Number of slots

102

198

Perforation percentage

Perforation percentage

10,15%

19,71%

Slot-available

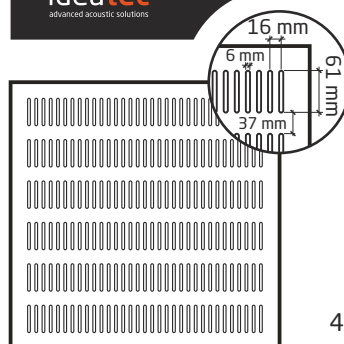
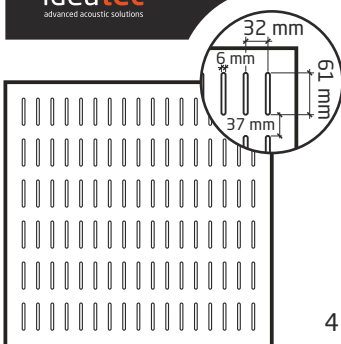
Slot-available

4 mm, 6 mm, 8 mm and 10 mm

4 mm, 6 mm, 8 mm and 10 mm

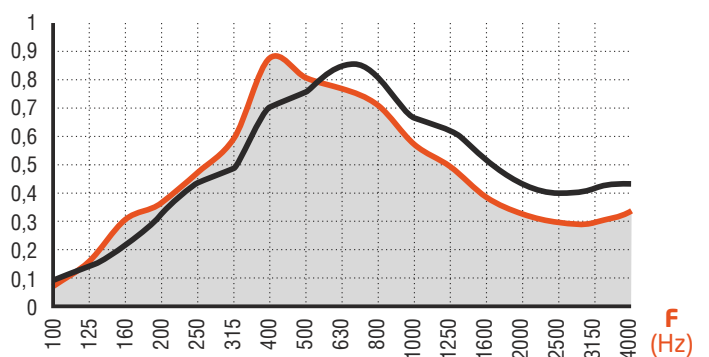
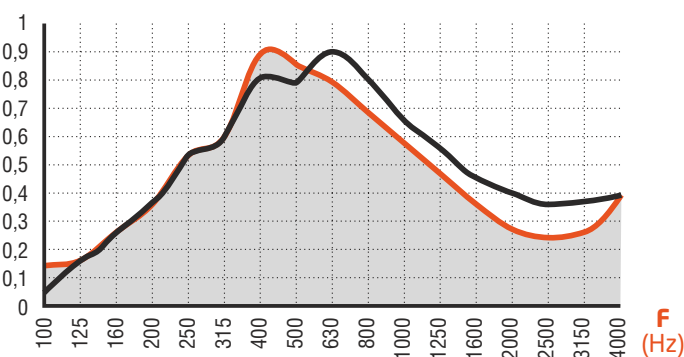
1/8", 1/4", 5/16" & 3/8"

1/8", 1/4", 5/16" & 3/8"



Absorption coefficient

Absorption coefficient



test conditions

test conditions

- A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16") of rockwool.

- A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16") of rockwool.

- A total of 5 cm (2") high in the Plenum + 4 cm (1' 9/16") of rockwool.

- A total of 5 cm (2") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Medium acoustic absorption coefficient $\alpha_m = 0,45$
 $\alpha_m = 0,55$

Medium acoustic absorption coefficient $\alpha_m = 0,60$
 $\alpha_m = 0,65$

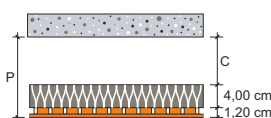
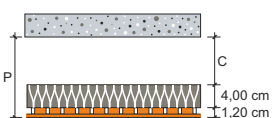
Average acoustic absorption coefficient $\alpha_w = 0,50 (L^*)$
 $\alpha_w = 0,55 (M^*)$

Average acoustic absorption coefficient $\alpha_w = 0,60$
 $\alpha_w = 0,65$

Noise reduction coefficient **NRC = 0,50**
NRC = 0,55

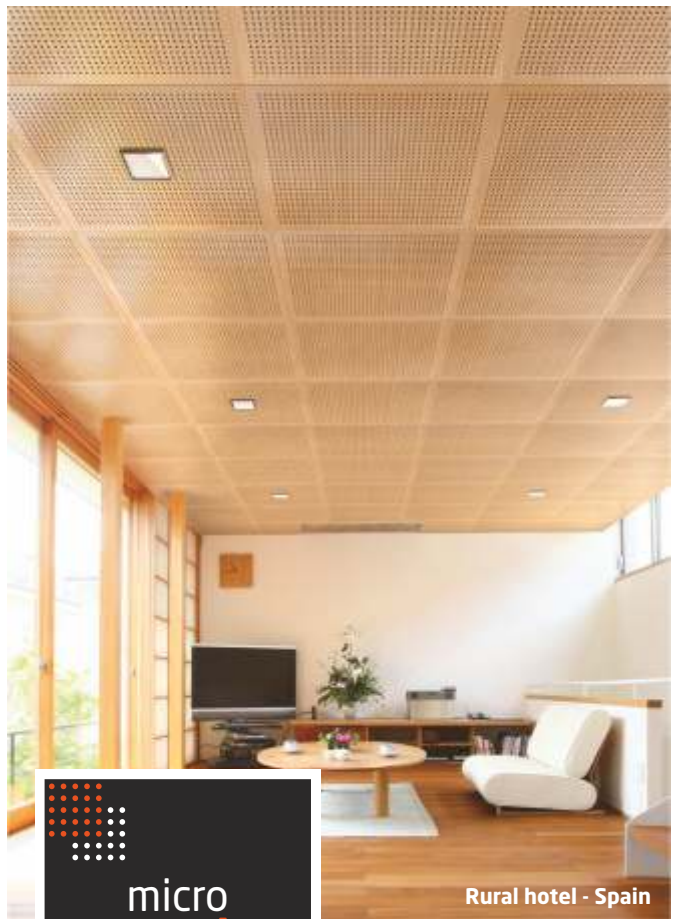
Noise reduction coefficient **NRC = 0,55**
NRC = 0,60

* Material with absorption coefficients risen to medium (M) and low (L) frequencies.

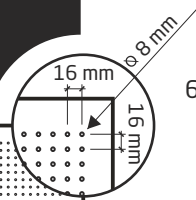
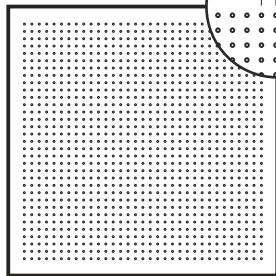




Geriatric - Valencia



Rural hotel - Spain



Studied data

Dimensions

600 X 600 mm - 2' X 2'

Diameter

8 mm - 5/16"

Perforations

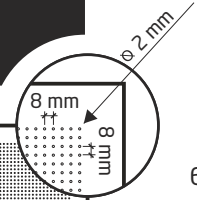
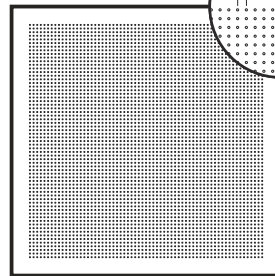
1089

Perforation percentage

15,21%

Perforation-available

4 mm, 6 mm, 8 mm and 10 mm
1/8", 1/4", 5/16" & 3/8"



Studied data

Dimensions

600 X 600 mm - 2' X 2'

Diameter

2 mm - 1/16"

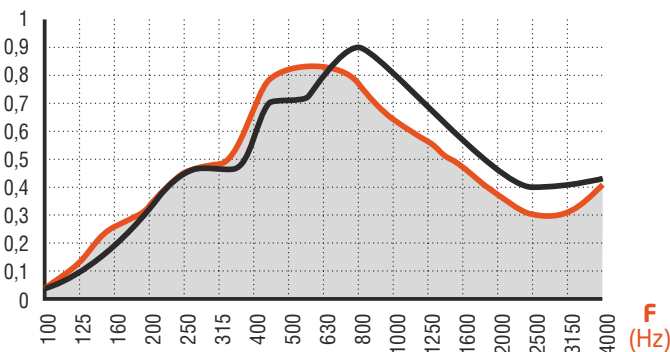
Perforations

4225

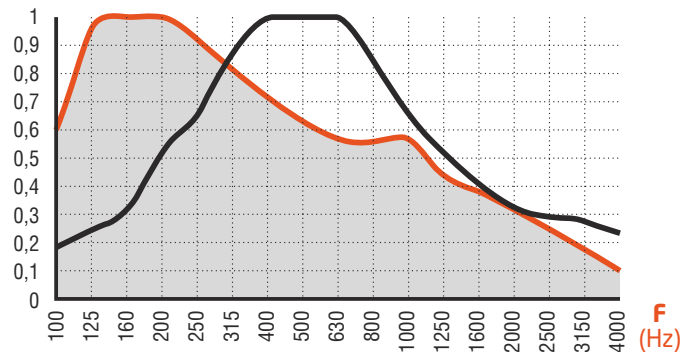
Perforation percentage

3,68%

Absorption coefficient



Absorption coefficient



test conditions

- A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Medium acoustic absorption coefficient α_m



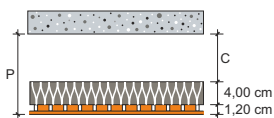
$\alpha_m = 0,60$
 $\alpha_m = 0,60$

- A total of 5 cm (2") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Average acoustic absorption coefficient α_w



$\alpha_w = 0,60$
 $\alpha_w = 0,60$



Noise reduction coefficient NRC



NRC = 0,55
NRC = 0,55

test conditions

- A total of 8 cm (3' 1/8") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Medium acoustic absorption coefficient α_m



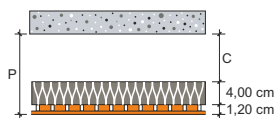
$\alpha_m = 0,48$
 $\alpha_m = 0,72$

- A total of 5 cm (2") high in the Plenum + 4 cm (1' 9/16") of rockwool.

Average acoustic absorption coefficient α_w



$\alpha_w = 0,25$ (L*)
 $\alpha_w = 0,35$ (M*)

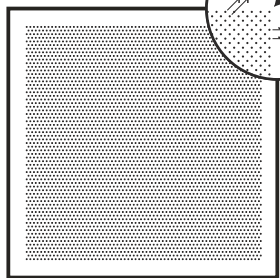


Noise reduction coefficient NRC



NRC = 0,60
NRC = 0,70

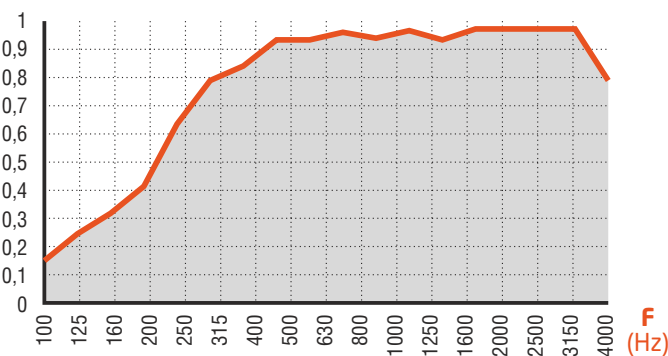
* Material with absorption coefficients risen to medium (M) and low (L) frequencies.



Studied data

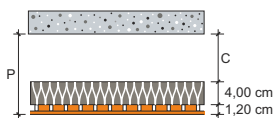
- Dimensions**
600 X 600 mm - 2' X 2'
- Diameter**
0,5 mm - 0,05"
- Perforations**
48600
- Perforation percentage**
2,7%

Absorption coefficient



test conditions

- A total of 5 cm (2") high in the Plenum
- + 4 cm (1' 9/16") of rockwool.



Medium acoustic absorption coefficient



$\alpha_m = 0,95$

Average acoustic absorption coefficient

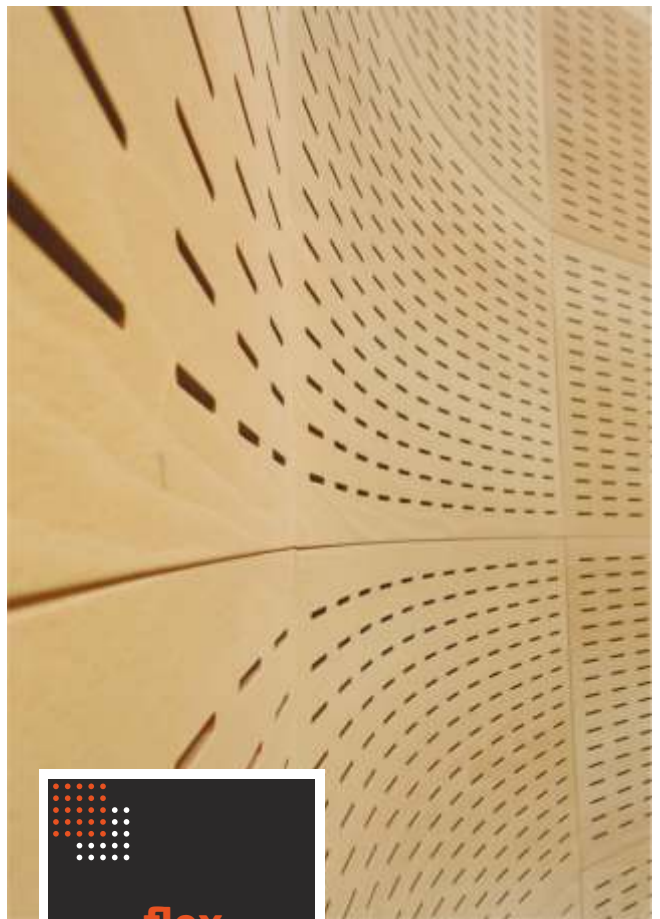


$\alpha_w = 0,90$

Noise reduction coefficient



NRC = 0,89



Solution available for the entire range Ideatec



Ideacoustic 32 Flex

Flex solution gives the entire product range **Ideatec** the possibility of forming different curved surfaces. This ensures a great freedom to technicians and architects in the laying of their designs.

Our technical department will guide you on these solutions, recommending the system that best suits your needs.

We work with a wide range of radii and different ways, either concave, convex or wavy.

Mounting systems are different, special machining, rib development, creating meshes for the construction of complex shapes or configurations for the development of space to allow the construction of 3D composite elements.



Wood looking after sound

IDEATEC stands out for designing and manufacturing highly effective acoustic solutions, making the most of the natural properties of elements such as wood. Proof of this is our continuous presence in projects all over the world. Our perforated or slotted panel systems for ceilings and walls allow us to guarantee an optimal acoustic performance in

any situation, taking care of the interior spaces' aesthetic at the same time.

All our models meet the most demanding requirements at technical and aesthetical levels. Because of this, prominent world specialists in acoustic engineering, building and interior design integrate **IDEATEC's** solutions in their projects.



Support materials



MDF Melamine 12/16 mm
(7/16" - 5/8")



MDF Wood veneered 13/16 mm
(7/16" - 5/8")



Plywood 13/16 mm
(7/16" - 5/8")



HPL Phenolic compact 10/12 mm
(3/8" - 7/16")



Special support materials: Consult

Phono-absorbent layer: Black acoustic fabric attached to the back

Dimensions: Ceiling paneling: 2'-4' x 2'

Wall paneling: 2430 x 600 mm, 1200 x 600 mm and 600 x 600 mm
(7' 11-11/16" x 1' 11-5/8", 4' x 2' and 2' x 2')

Tolerance: Width: +/- 1,5 mm (1/16") // Length: +/- 1,5 mm. (1/16") According to the EC Mark

Installation:

Ceiling paneling



Wall panels

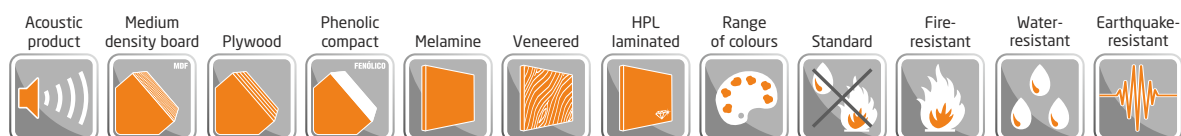


Quality and project success guaranteed

We stand behind and guarantee all products we sell, thanks to our technology and the continuous supervision carried out by a large team of professionals. We strive to provide the best quality in all of our products and services.

Every production process is guaranteed by the **ISO 9001** and **ISO 14001** standards (referred to quality and Environment, respectively).

IDEATEC has the **PEFC**, Chain of Custody Certificate, which assures that we follow the principles established in the **Program for the Endorsement of Forest Certification (PEFC)**, a program that promotes sustainable forest management through forest certification. We only use wood from forests whose management is environmentally appropriate, economically viable and socially beneficial.



Every option in finishings

Our wide range of finishings includes melamines -wooden or plain colors-, tints, lacquers and natural veneers. These options, applied to different base materials -MDF, plywood or phenolic compact-, have a final result of great quality in common. We also supply profile systems for ceilings and wall claddings for an easy installation. Adaptation to

the most demanding environments is possible thanks to the multiple combinations available with finishings, measurements, and distance between slots or drills.

All this, together with diffusers and ECOTEX fabric panels, allows us to offer highly effective acoustic and aesthetic solutions.

Standard melamines



Maple



Cherry



Coral



Silver



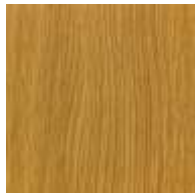
Pear



Wengue



Beech



Oak



White



Cactus

Standard wood veneer panels



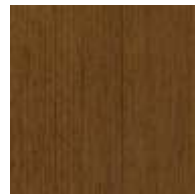
Maple



Cherry



Oak



Wengue



Beech



One-color melamine or hpl laminates

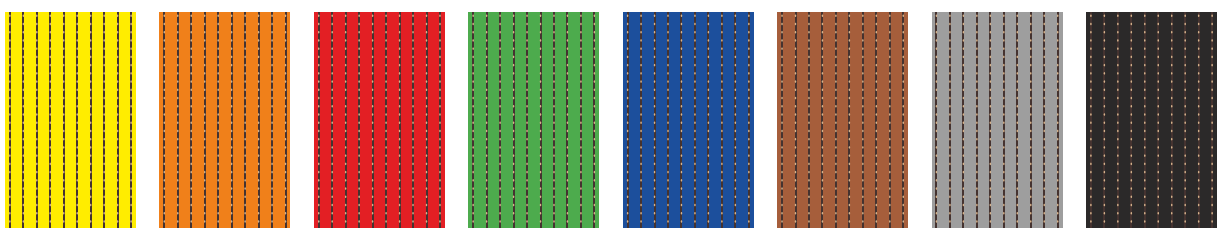
You can choose among more than 100 different colours.

Laquered panels

We have the necessary ability, technology and tools to supply our panels in any reference of PANTONE, RAL or NCS.

Mass-coloured mdf planks

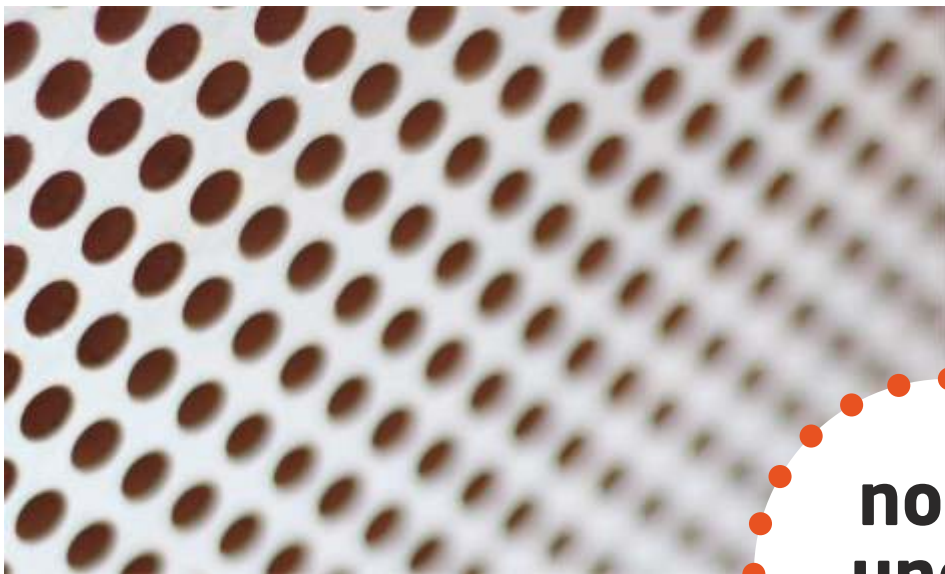
Finally, we have a range of mass-coloured MDF planks with gives the tone of the desired colour with an innovation touch distinguishing it from the other systems.





IDEATEC products are intended to achieving an acoustic harmony inside closed spaces, such as meeting rooms, recording studios, commercial areas, educational facilities, auditoriums, restaurants and hospitals, among many others.

Our acoustic conditioning systems are currently present in more than 25 countries all over the world.



**noise
under
control**



Ideatec

Pol. Ind. Santa Fe // Comuna di Carrara, 10
03660 **Novelda** (Alicante) Spain

T. +34 965 609 046 // +34 965 609 162 // **F.** +34 965 609 163

www.ideatec.es // info@ideatec.es