

Technical sheet Tangent Acoustic



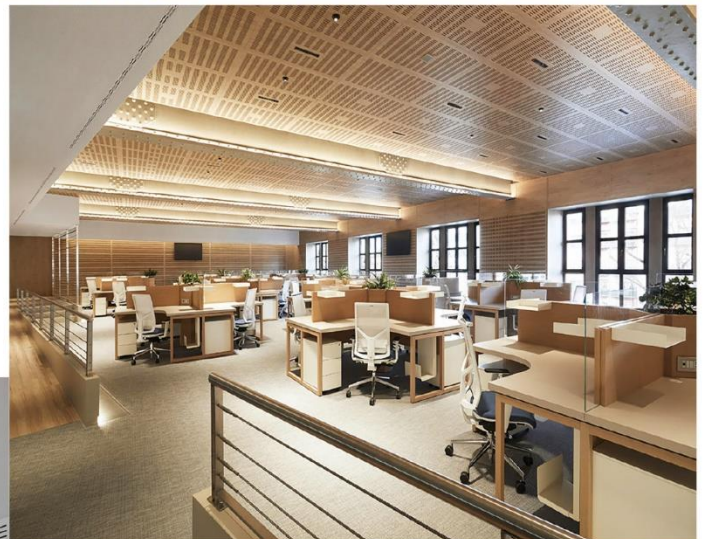
Tangent Acoustic wooden panels are characterized by a high degree of sound absorption and a design with a refined and elegant style. Their acoustic characteristics vary according to the number and size of the milling present on the surface. The panels can be installed both as a wooden ceiling and as an acoustic wall. This versatility is also reflected in the decorative aspect through the customization of the different groove patterns.

Tangent Acoustic panels adapt to various types of spaces such as offices, open spaces, restaurants, auditoriums, university classrooms and in all indoor environments where acoustic comfort is to be improved.



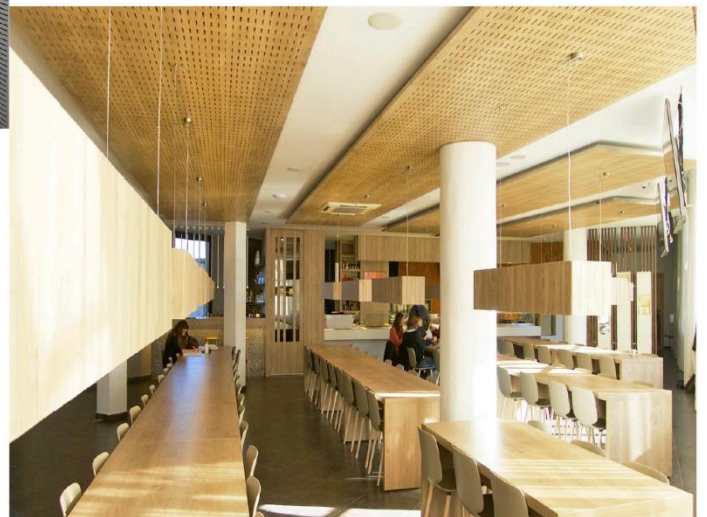
For an **optimal absorption coefficient in class A** it is necessary to provide a space of at least 30/40 mm between the wall and the back of the panels to insert a mineral fiber or polyester mattress with a density of 30-40 kg / m³.

Tangent Acoustic panels are made of standard or fireproof MDF wood fiber. The surface finishes of the panels are available in a wide range of natural wood veneers, painted or lacquered in RAL or NCS and in melamine. The panels can also be made of mass-colored MDF or plywood. It is possible to carry out special milling or mechanization to integrate the systems (lamps, etc.).



Tangent Acoustic slotted wood panels can be installed on the wall with Tecalum mounting profiles and as a **false wooden ceiling** with modular mounting profiles type T24.

Depending on the type of fixing, the mounting systems can be inspectable and not inspectable.



Tangent Acoustic

Model: TA058

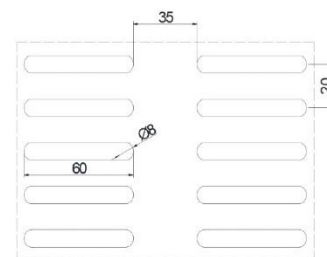
Description Perforated acoustic panel with aligned grooves.

Acoustic characteristics

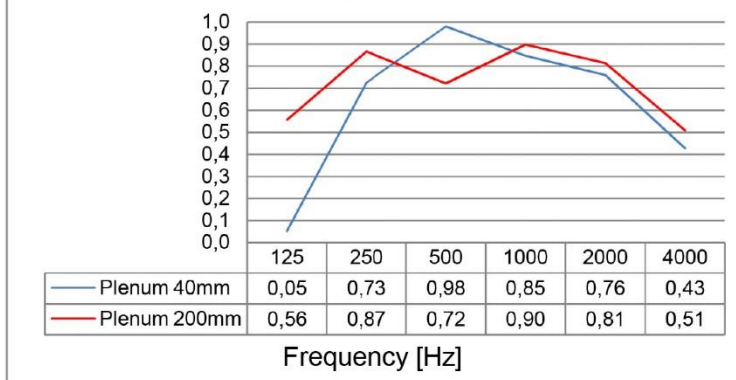
Pitch (mm)	20 x 35
Groove (mm)	Ø 8 x 60
Hole depth (mm)	through
Perforated surface (%)	21

Sound absorption

Plenum 40mm α_w	0,60
NRC	0,85
Plenum 200mm α_w	0,70
NRC	0,80
Absorption class	C
Absorption class (+ mineral wool 40mm 30kg/m3)	A



Sound absorption according to UNE-EN ISO 354



General characteristics

Materials	<ul style="list-style-type: none"> MDF Standard D-s2,d0 MDF Fireproof B-s2,d0 (red or natural core)
Thickness	<ul style="list-style-type: none"> 12 mm (MDF) 16 mm (MDF)
Middleweight aprox. (kg/m ²)	<ul style="list-style-type: none"> Standard: 7,5 kg/m² (12 mm) Standard: 10,0 kg/m² (16 mm) Fireproof: 9,5 kg/m² (12 mm) Fireproof: 12,5 kg/m² (16 mm)
Format (in panels)	<ul style="list-style-type: none"> MDF 12 mm: 600 x 600 mm / 1200 x 600 mm MDF 16 mm: 2400 x 600 mm/ 1200 x 600 mm
Surface finish	<ul style="list-style-type: none"> Raw, without laminate Melamine Natural essence veneer High pressure laminate (HPL) Painted/Lacquered

Contact Acoustic Lab for other materials or thicknesses.

	Ceiling		Wall
Mechanization	<ul style="list-style-type: none"> Visible inspectable T24 Semi-hidden Hidden V6 (joint of 6 mm) 		<ul style="list-style-type: none"> Without mechanizing Milled edge no inspectable

Applications • Wall covering • False ceiling

Accessories and complements

Edges	<ul style="list-style-type: none"> Metal perimeter edges available in various shapes and sizes Wooden joint cover in the same finish as the panel
Fixing systems	<ul style="list-style-type: none"> Ceiling: standard system with visible and hidden profiles Wall: structure with wooden profiles and mechanical fixing

Tangent Acoustic

Model: TA068

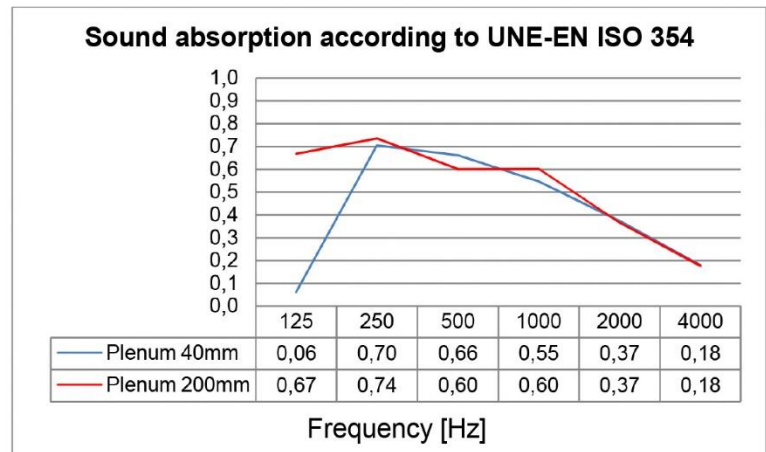
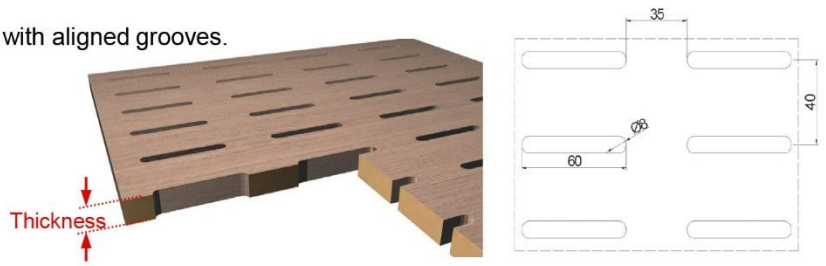
Description Perforated acoustic panel with aligned grooves.

Acoustic characteristics

Pitch (mm)	40 x 35
Groove (mm)	Ø 8 x 60
Hole depth (mm)	Through
Perforated surface (%)	10,9

Sound absorption

Plenum 40mm aw	0,35
NRC	0,55
Plenum 200mm aw	0,35
NRC	0,60
Absorption class	D
Absorption class (+ mineral wool 40mm 30kg/m3)	A





General characteristics

Materials	<ul style="list-style-type: none"> • MDF N (no fireproof) • MDF I (fireproof, with red or natural core)
Thickness	<ul style="list-style-type: none"> • 12 mm (MDF) • 16 mm (MDF)
Fire resistant According to EN 13501-1	<ul style="list-style-type: none"> • Standard: D - s2, d0 • Fireproof: B - s2, d0
Middleweight aprox. (kg/m ²)	<ul style="list-style-type: none"> • Standard: 7,5 kg/m² (12 mm) • Standard: 10,0 kg/m² (16 mm) • Fireproof: 9,5 kg/m² (12 mm) • Fireproof: 12,5 kg/m² (16 mm)
Format (in panels)	<ul style="list-style-type: none"> • MDF 12 mm: 600 x 600 mm/ 1200 x 600 mm • MDF 16 mm: 2400 x 600 mm/ 1200 x 600 mm

Contact Acoustic Lab for other materials or thicknesses.

Surface finish	<ul style="list-style-type: none"> • Raw, without laminate • Melamine • Natural essence veneer • High pressure laminate (HPL) • Painted/Lacquered
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	Ceiling	Wall
Mechanization	<ul style="list-style-type: none"> • Visible inspectable T24 • Semi-hidden • Hidden V6 (joint of 6 mm) 	<ul style="list-style-type: none"> • Without mechanizing • No inspectable milled edge 

Applications	<ul style="list-style-type: none"> • Wall covering • False ceiling
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Accessories and complements

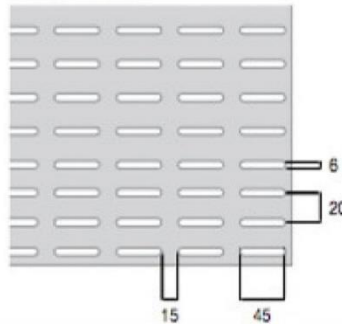
Edges	<ul style="list-style-type: none"> • Metal perimeter edges available in various shapes and sizes • Wooden joint cover in the same finish as the panel
Fixing systems	<ul style="list-style-type: none"> • Ceiling: standard system with visible and hidden profiles • Wall: structure with wooden profiles and mechanical fixing

TA046

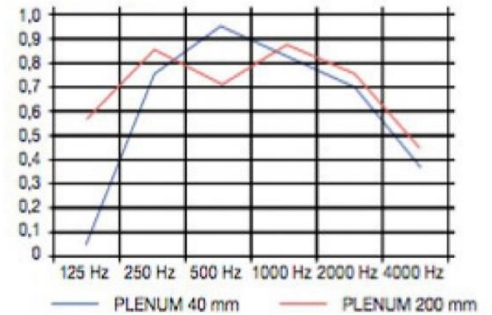
CHARACTERISTICS

Groove	45 mm x 6 diameter
Pitch	20 x 35 mm
Perforated surface	19,7 %
Thickness	12 mm / 16 mm

SIZES



ACOUSTIC

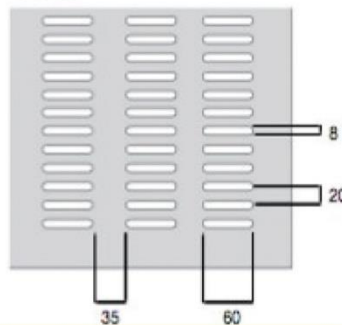


TA058

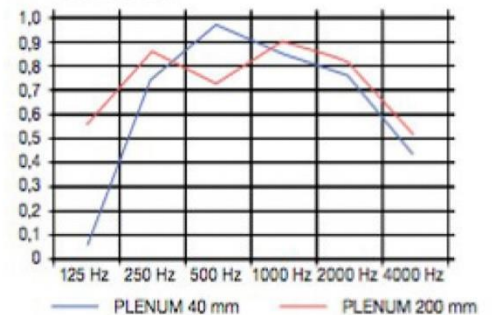
CHARACTERISTICS

Groove	60 mm x 8 diametro
Pitch	20 x 35 mm
Perforated surface	21,8 %
Thickness	16 mm

SIZES



ACOUSTIC

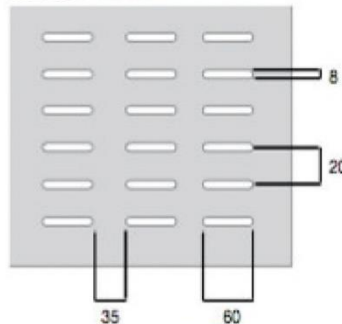


TA068

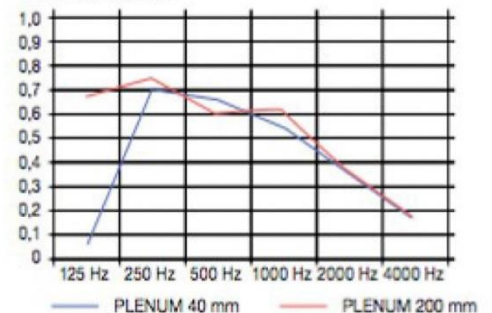
CHARACTERISTICS

Groove	60 mm x 8 diametro
Pitch	40 x 35 mm
Perforated surface	10,9 %
Thickness	16 mm

SIZES



ACOUSTIC

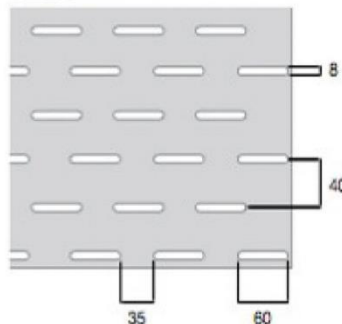


TA078

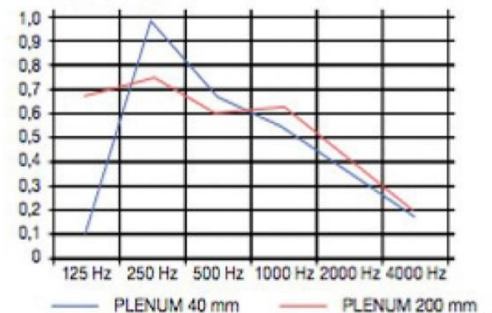
CHARACTERISTICS

Groove	60 mm x 8 diametro
Pitch	40 x 35 mm
Perforated surface	10,5 %
Thickness	12 mm / 16 mm

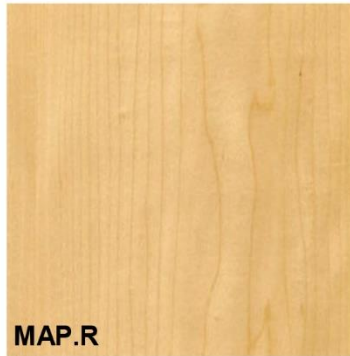
SIZES



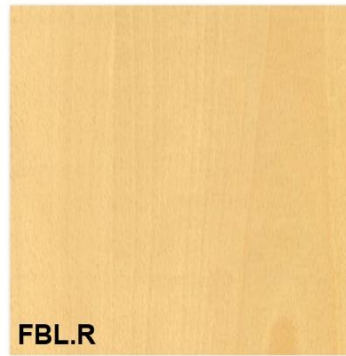
ACOUSTIC



Wood veneer



MAP.R
Maple



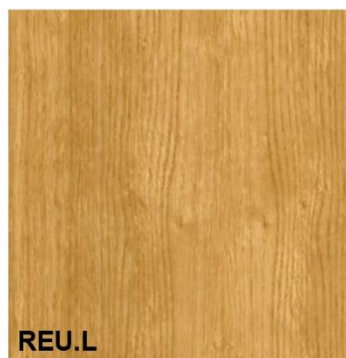
FBL.R
Light beech



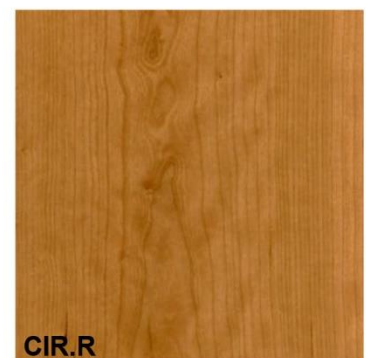
FBU.L
Beech



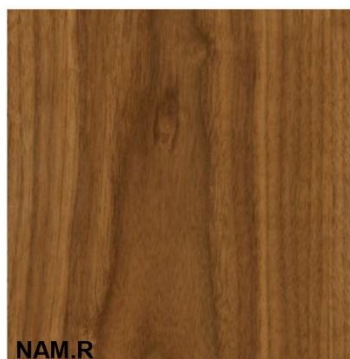
FBU.R
Dark beech



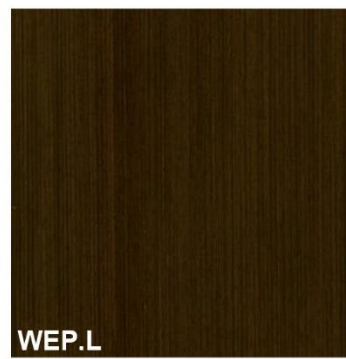
REU.L
European oak



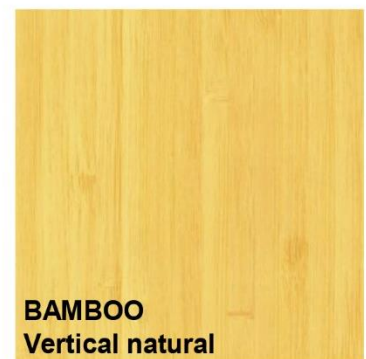
CIR.R
Cherry



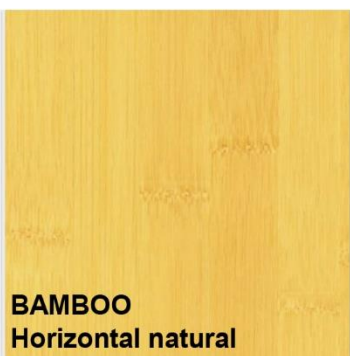
NAM.R
American walnut



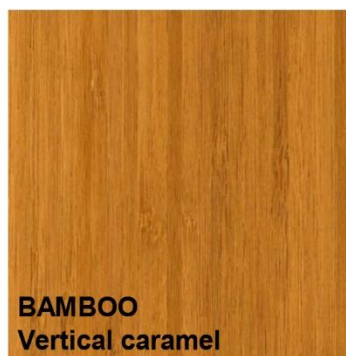
WEP.L
Wenge



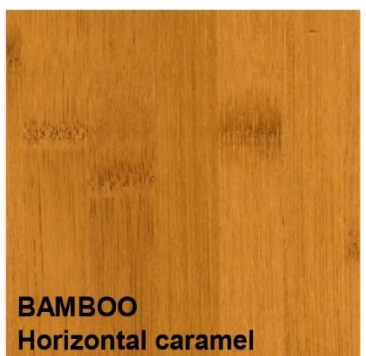
BAMBOO
Vertical natural
Bamboo vertical natural



BAMBOO
Horizontal natural
Bamboo horizontal natural

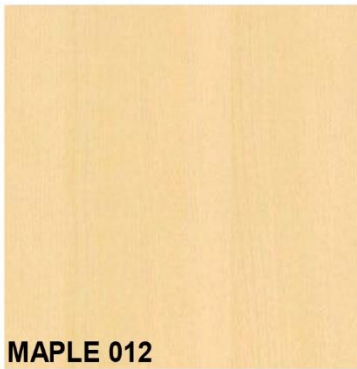


BAMBOO
Vertical caramel
Bamboo vertical caramel



BAMBOO
Horizontal caramel
Bamboo horizontal caramel

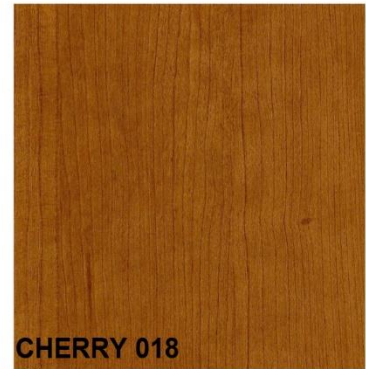
Melamine



MAPLE 012
Maple



BEECH 016
Beech



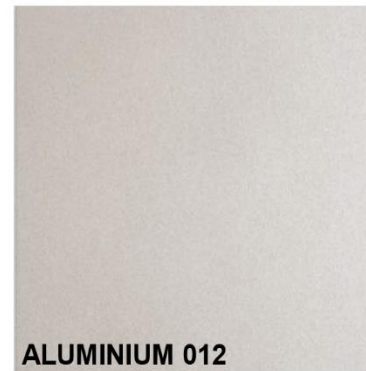
CHERRY 018
Cherry



OAK 012
Oak



WHITE 012
White



ALUMINIUM 012
Aluminium



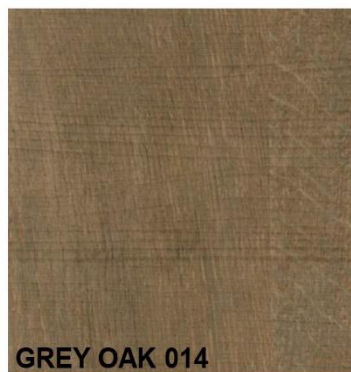
LIGHT OAK 014
Light oak



DARK OAK 014
Dark oak



WHITE OAK 014
White oak



GREY OAK 014
Grey oak