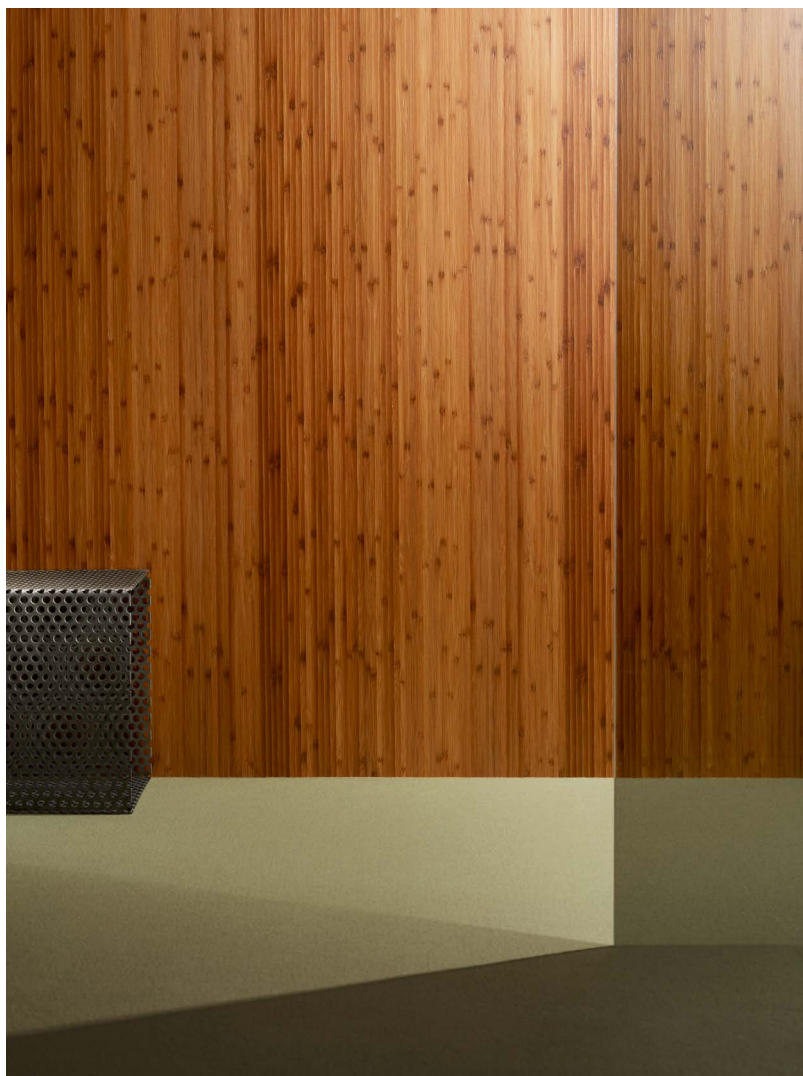


CATALOGUE

# WALLS AND CEILINGS



**Parklex<sup>®</sup>**





CATALOGUE

# **WALLS AND CEILINGS**

**Parklex<sup>®</sup>**





Our interior range for walls and ceilings offers three main categories of technical natural wood panels, all of which require no specific maintenance apart from normal cleaning.

Dry Internal is designed for environments subject to high levels of traffic and abrasion, such as museums, offices, hotels or institutional buildings.

Wet Internal is highly water resistant, perfect for installing in moisture rich environments such as bathrooms, gyms, saunas and swimming pools.

Acoustic is for projects that require specific sound absorption characteristics, such as convention halls, auditoriums, lecture halls and theatres.





Product: Dry Internal, Hy Tek / Wood: Caramel Bamboo  
Headquarters IDOM Bilbao, by ACXT Arquitectos (Bilbao, Spain)



## The beauty of natural wood, without specific maintenance

Parklex® has proprietary resin-based technology to protect the wood from Day 1, making it appropriate for continued use. No other maintenance (such as sanding, lacquering, oiling etc.) other than simple cleaning is ever required.

### Reaction to fire

Dry Internal and Wet Internal have achieved the highest level of test results for organic materials, as per the stringent requirements of European Standard EN 13501-1, reaction to fire:

Wet Internal: B-s1,d0  
Dry Internal: B-s2,d0

### Resistance to scratching

All products within our wall and ceiling range achieved Level 3 for scratch-resistance, according to standard EN 438-2 section 25.

### Light fastness

A minimum of Level  $\geq 2$  in the greyscale was achieved by all wall and ceiling products, as per the requirements of EN 438-2 section 27.

### Antibacterial

The entire range of wall and ceiling products can be supplied with high level antibacterial characteristics (based on standard ISO 22196:2007), upon request.

### Sound absorption

Acoustic is a natural wood cladding for internal walls and ceilings requiring specific sound absorption characteristics. Tests conducted to measure sound absorption in a reverberation chamber obtained weighted coefficient between 0.2 and 0.6, depending on the perforation detail.





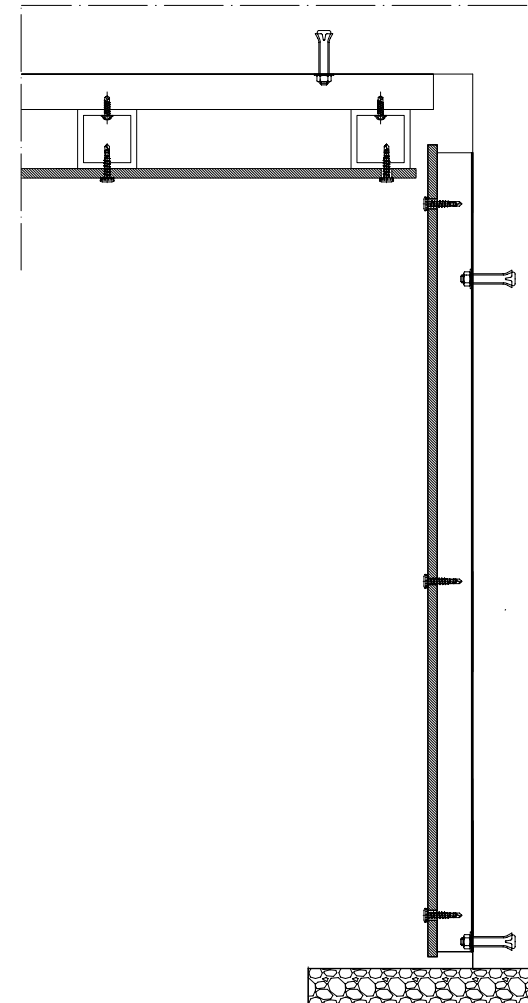
Product: Dry Internal / Wood: Copper  
Le Monastère des Augustines, by ABCP Architecture  
(Quebec, QC, Canada)







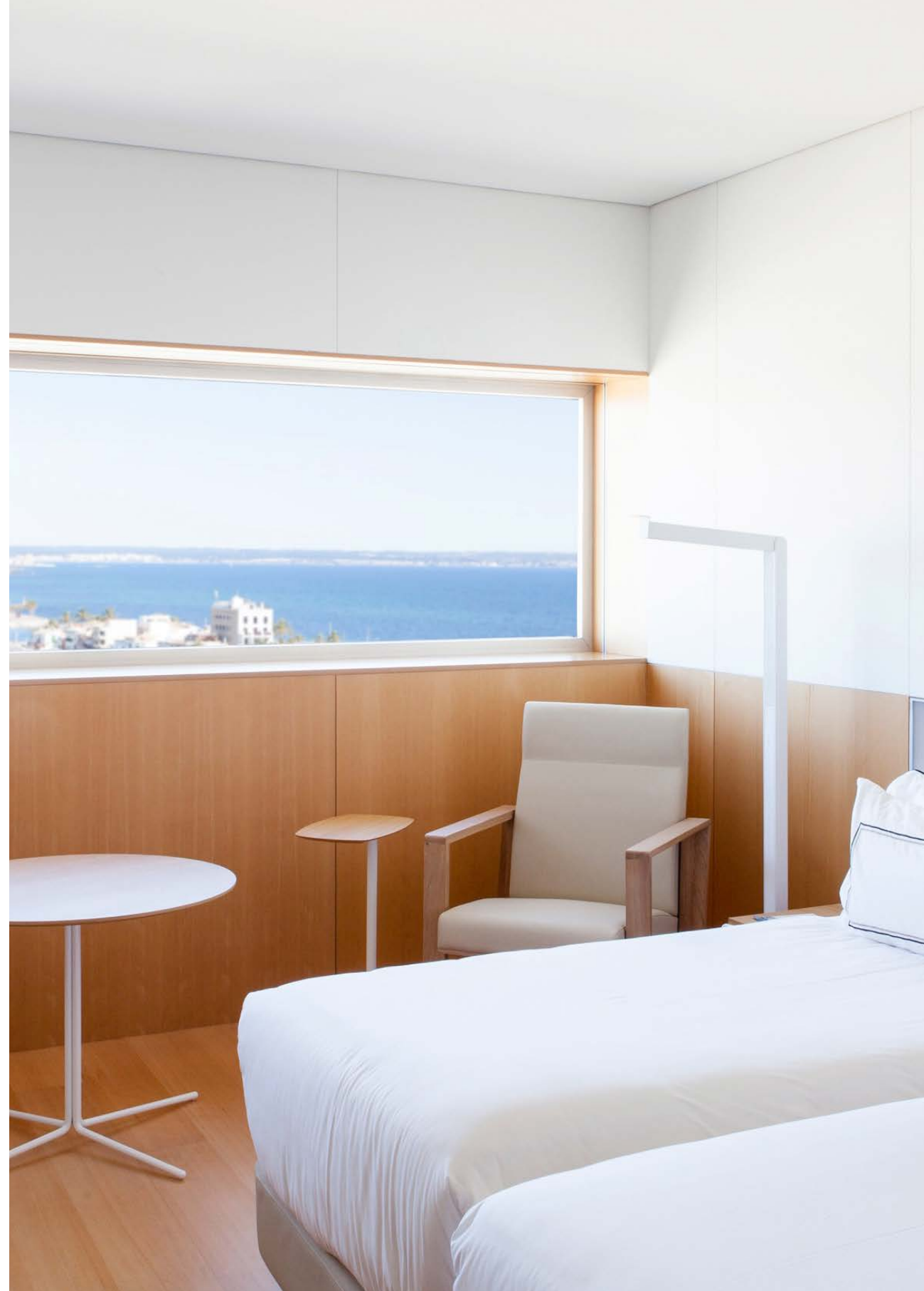
Product: Dry Internal / Wood: Teak  
Arquia bank office, by Iñigo Goti Aralucea  
(San Sebastián, Spain)



Dry Internal, Wet Internal and Acoustic boards were specifically designed for internal wall and ceiling installations, where the wood offers the unique warmth, tone and grain of a living, organic material.



Wall product: Dry Internal F / Wood: Natural Beech Woodskin  
Floor product: Hy Tek / Wood: Natural Beech Satin 188 mm no bevel  
Palma Convention Centre, by Francisco Mangado  
(Palma de Mallorca, Spain)





Wall product: Dry Internal F / Wood: Natural Beech Woodskin  
Floor product: Hy Tek / Wood: Natural Beech Satin 188 mm no bevel  
Palma Convention Centre, by Francisco Mangado  
(Palma de Mallorca, Spain)







Wall product: Dry Internal F / Wood: Caramel Bamboo Woodskin  
Floor product: Hy Tek / Wood: Caramel Bamboo Satin 188 mm no bevel  
Hotel OD Barcelona, by Victor Rahola Aguadé (Barcelona, Spain)











Product: Dry Internal F, Acoustic / Wood: Natural Oak  
Hôtel de Région Rhône-Alpes, by Christian de Portzamparc (Lyon, France)



Our wall and ceiling products are available in 15 wood species. The Woodskin surface provides a slight satin appearance, providing the physical sensation of the grain and knots in the original wood veneer.



**AMERICAN OAK**

Dry Internal / Acoustic / Wet Internal



**COUNTRY OAK**

Dry Internal / Acoustic / Wet Internal



**RUSTIC OAK**

Dry Internal / Acoustic / Wet Internal



**SAND OAK**

Dry Internal / Acoustic / Wet Internal



**SMOKED GREY OAK**

Dry Internal / Acoustic / Wet Internal

Wood is a natural product; therefore, each veneer must be considered as unique. Slight differences in colour, grain and structure is completely normal. Peculiarities such as knots or resin inclusions are not defects and should always be considered as part of the decoration. Depending on the species and origin of the wood, there are differences in light fastness behaviour. For this reason, no claims will be accepted based on differences/changes in tone between the sample and the final product.





**CARAMEL BAMBOO**

Dry Internal / Acoustic / Wet Internal



**NATURAL BAMBOO**

Dry Internal / Acoustic / Wet Internal



**EUCALYPTUS**

Dry Internal / Acoustic / Wet Internal



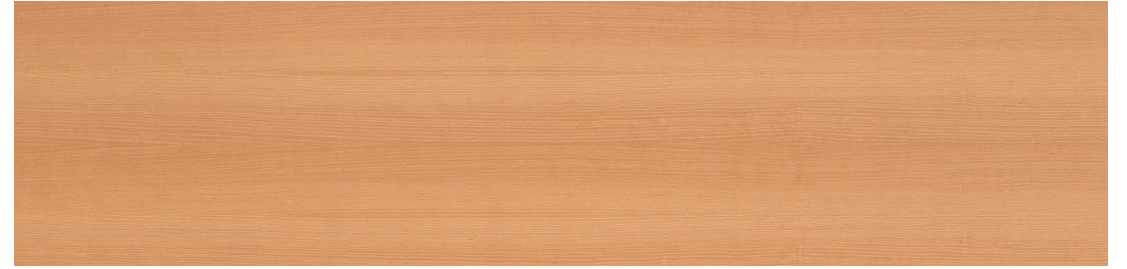
**GRAPHITE**

Dry Internal / Acoustic / Wet Internal



**MAPLE**

Dry Internal / Acoustic / Wet Internal



**NATURAL BEECH**

Dry Internal / Acoustic / Wet Internal



**OLIVIER ASH**

Dry Internal / Acoustic / Wet Internal



**RECONSTITUTED GREY OAK**

Dry Internal / Acoustic / Wet Internal



**TEAK**

Dry Internal / Acoustic / Wet Internal



**WALNUT**

Dry Internal / Acoustic / Wet Internal



## Dry Internal

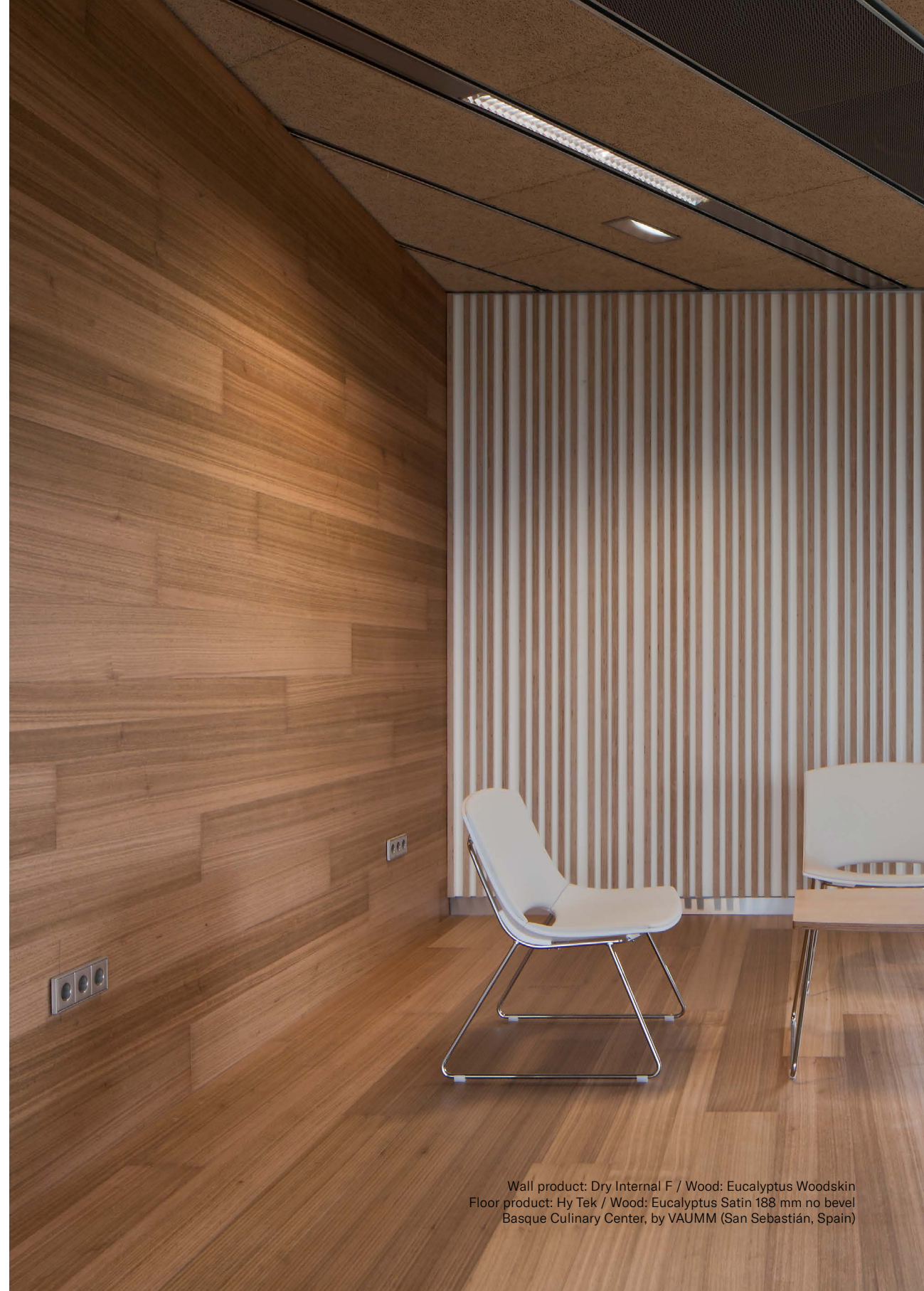
Highly resistant and tough, Dry Internal is the premier natural wood cladding for internal walls and ceilings. Specifically designed for areas subject to high levels of abrasion. Zero maintenance, apart from washing.



- A - Natural processed wood veneer
- B - Beech plywood (Dry Internal S)<sup>1</sup>  
Okume plywood (Dry Internal F<sup>2</sup>)
- C - Rear Bakelite balancer

Dimensions: 2440 x 1220 mm / Thicknesses: 8, 11, 14, 17, 20, 23 and 26 mm

- <sup>1</sup> Dry Internal S is the standard board type
- <sup>2</sup> Dry Internal F is the fire-resistant variety



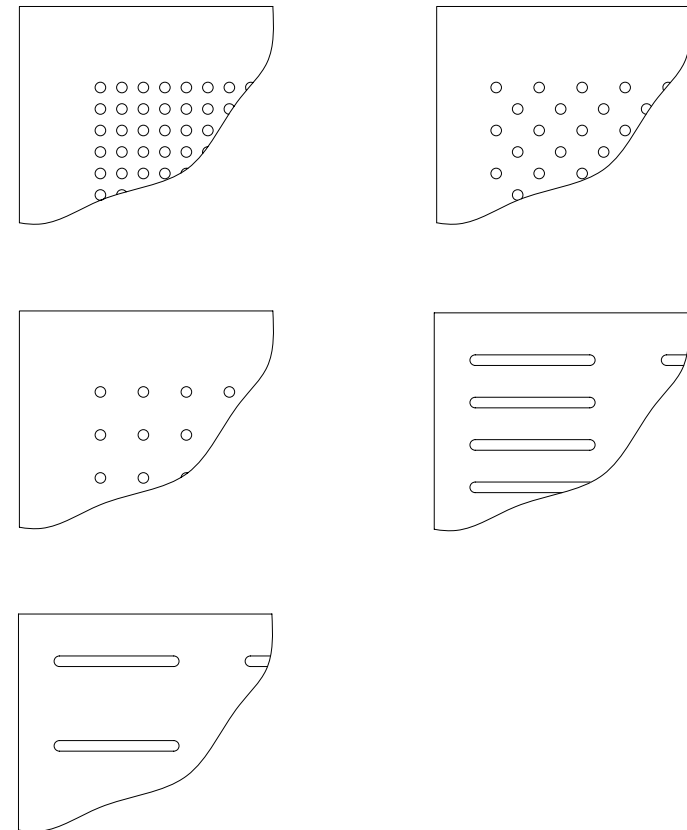
Wall product: Dry Internal F / Wood: Eucalyptus Woodskin  
Floor product: Hy Tek / Wood: Eucalyptus Satin 188 mm no bevel  
Basque Culinary Center, by VAUMM (San Sebastián, Spain)





## Acoustic

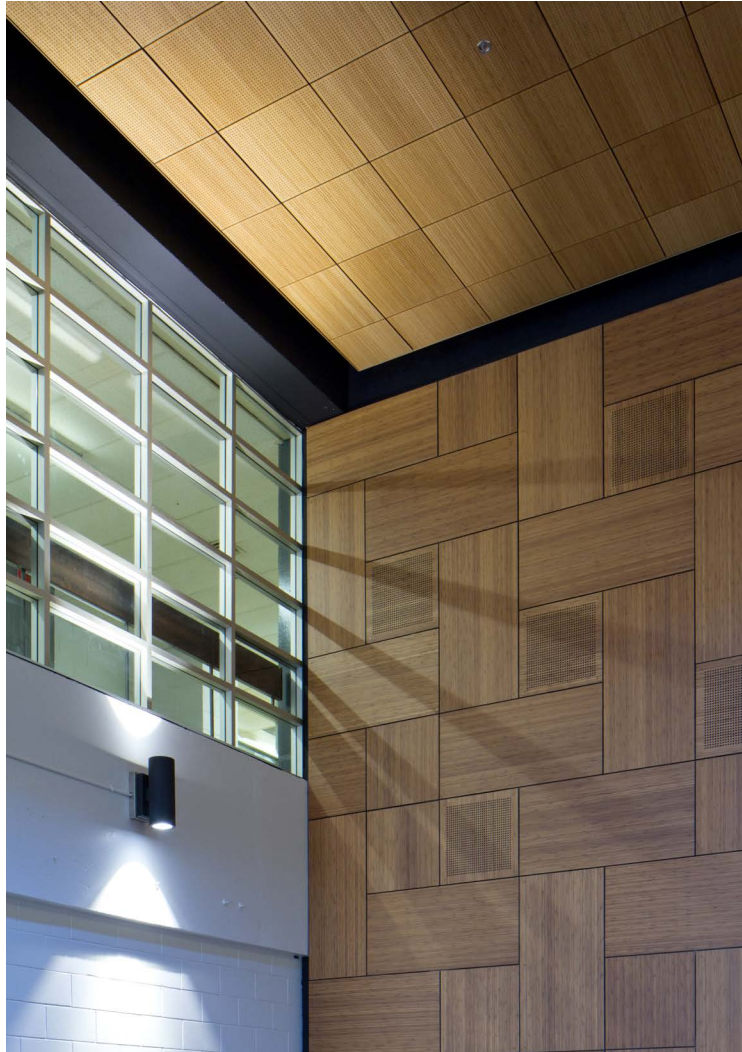
Acoustic is for projects that require specific sound absorption characteristics, such as convention halls, auditoriums, lecture halls and theatres.



Dimensions: 2440 x 1220 mm, 2440 x 600 mm, 1200 x 1200 mm,  
1200 x 600 mm, 600 x 600 mm / Thicknesses: 12 and 18 mm

For more information, please contact your local Parklex representative  
or the technical department at Parklex®.





Products: Dry Internal F, Acoustic / Wood: Caramel Bamboo  
École secondaire d'Anjou (Montréal, QC, Canada)





## Wet Internal

Thanks to the technical leak-tightness and damp-resistant properties of the natural wood's veneer, Wet Internal gives a special feeling of warmth in indoor environments that are frequently in contact with water.



- A - Damp-resistant layer
- B - Natural wood veneer
- C - HPL core
- D - Protective film on rear

Dimensions: 2440 x 1220 mm / Thicknesses: 6\*, 8, 10, 12, 14, 16, 18, 20 and 22 mm  
\*Thickness only valid for pre-curved panels. For more information, please see our Walls and Ceilings technical guide.





Product: Wet Internal / Wood: Walnut Woodskin  
Hotel Sezz Saint-Tropez, by Christophe Pillet (Saint-Tropez, France)





# Dry Internal

Tests	Standard	Property or attribute	Unit of measurement	Result
<b>1. Inspection</b>				
Colour, pattern and surface finish	EN 438-8 Sect. 5.2.2.3	Due to the fact that wood is a natural product, each veneer must be considered as unique. The presence of slight differences in colour and structure is normal. Peculiarities such as knots or resin inclusions are not considered to be defects, but as part of the decoration. Depending on the species and the source of the wood, differences in performance may be observed, as regards the colour's light fastness.		
<b>2. Dimensional tolerances</b>				
Thickness (t)	EN 438-2 Sect. 5	6.0 ≤ t < 8.0	mm	± 0.40
		8.0 ≤ t < 12.0		± 0.50
		12.0 ≤ t < 16.0		± 0.60
		16.0 ≤ t < 20.0		± 0.70
		20.0 ≤ t < 25.0		± 0.80
Flatness (f)	EN 438-2 Sect. 9	6.0 ≤ t < 10.0	mm /m	8.0
		10.0 ≤ t		5.0
Length and width	EN 438-2 Sect. 6		mm	+10 / -0
Edge straightness	EN 438-2 Sect. 7		mm/m	1.5
Squareness	EN 438-2 Sect. 8		mm/m	1.5
<b>3. Physical properties</b>				
Dimensional stability	EN 438-2 Sect. 17	Accumulated dimensional variation ( t ≥ 6 mm )	Max longitudinal %	0.3
			Max transversal %	0.6
Resistance to impact	EN 438-2 Sect. 21	Drop height without mark above 10mm ( t ≥ 6 mm )	mm	≥ 1,800
Tensile strength	EN ISO 527-2	Longrain Crossgrain	MPa	≥ 60
<b>4. EC Safety requirements</b>				
Water vapour permeability	EN 438-7 Sect. 4.4	Wet cup method Dry cup method	μ	110
				250
Resistance to fixings	EN 438-7 Sect. 4.5	Strength t ≥ 6mm Strength t ≥ 8mm Strength t ≥ 10mm	N	> 2,000
				> 3,000
				> 4,000
Formaldehyde emission	EN 438-7 Sect. 4.11	Classification	Class	E1
Flexural strength	EN ISO 178	Longrain Crossgrain	MPa	≥ 80
Flexural elastic modulus	EN ISO 178	Longrain Crossgrain	MPa	≥ 9,000
Resistance to immersion in boiling water	EN 438-2 Sect. 12	Increase in mass Thickness increase Appearance	%	≤ 2
			%	≤ 2
			Degree	≥ 4
Density	EN ISO 1183	Density	g/cm <sup>3</sup>	≥ 1.35
<b>5. EC Safety requirements - Reaction to fire</b>				
Reaction to fire	EN 13.501-1	Euroclass t ≥ 6 mm	Classification	C-s2,d0
<b>6. Optional features upon request</b>				
Determination of antibacterial activity	ISO 22196 (JIS Z 2801)		% reduction after 24h (S. aureus and E. coli)	99.99

(1) Providing the panels are stored according to the manner and conditions recommended by the manufacturer.

# Acoustic

Tests	Standard	Unit of measurement	Result
<b>1. Inspection</b>			
Colour, pattern and surface finish	EN 438-8 Sect. 5.2.2.3	Due to the fact that wood is a natural product, each veneer must be considered as unique. The presence of slight differences in colour and structure is normal. Peculiarities such as knots or resin inclusions are not considered to be defects, but as part of the decoration. Depending on the species and the source of the wood, differences in performance may be observed, as regards the colour's light fastness.	
<b>2. Dimensional tolerances</b>			
Thickness (t)	EN 438-2 Sect. 5	mm	+1.2 / -0.8 (t=12)
			+1.3 / -0.9 (t=18)
Length and width	EN 438-2 Sect. 6	mm	+10 / -0
Edge straightness	EN 438-2 Sect. 7	mm/m	1.5
Squareness	EN 438-2 Sect. 8	mm/m	1.5
<b>3. General properties</b>			
Resistance to surface wear	EN 438-2 Sect. 10	Revolutions Wear value	≥ 350
Resistance to scratching	EN 438-2 Sect. 25	Rating	3
Light fastness	EN 438-2 Sect. 27	Greyscale degree	≥ 2 < 2 (A)
Flexural strength	EN 310	MPa	≥ 70 ( Longitudinal ) ≥ 50 ( Transversal )
Flexural elastic modulus	EN 310	MPa	≥ 7000 ( Longitudinal ) ≥ 5000 ( Transversal )
Resistance to bonding: Flat traction	ASTM C 297	MPa	≥ 1
Density	-	g/cm <sup>3</sup>	≥ 0.80
<b>4. EC Safety requirements</b>			
Reaction to fire	EN 13.501-1	Classification	C-s2,d0
Resistance to fixings	EN 438-7 Sect. 4.5	N/mm	≥ 100 ( t < 15 mm )
		N	≥ 1300 ( t ≥ 15 mm )
Joint resistance	EN 438-7 Sect. 4.7	MPa	≥ 1
Flex tensile strength	EN 438-7 Sect. 4.8	MPa	≥ 1
PCP content	EN 438-7 Sect. 4.10	ppm	≤ 5
Formaldehyde emission	EN 717-2	Class	E1
Glue line quality	EN 438-7 Sect. 4.13.3	Rating	3
Resistance to elevated temperature	EN 438-7 Sect. 4.13.3	Assessment	Not altered
Resistance to damp	EN 438-7 Sect. 4.13.3	%	≤ 5
<b>5. Optional features upon request</b>			
Determination of antibacterial activity	ISO 22196 (JIS Z 2801)	% reduction after 24h (S. aureus and E. coli)	99.99

(A) Reconstituted Oak



# Wet Internal

Tests	Standard	Property or attribute	Unit of measurement	Result
				<b>Parklex® Wet Internal F (Fire-resistant) Rev. 09 (02.2018)</b>
<b>1. Inspection</b>				
Colour, pattern and surface finish	EN 438-8 Sect. 5.2.2.3	Due to the fact that wood is a natural product, each veneer must be considered as unique. The presence of slight differences in colour and structure is normal. Peculiarities such as knots or resin inclusions are not considered to be defects, but as part of the decoration. Depending on the species and the source of the wood, differences in performance may be observed, as regards the colour's light fastness.		
<b>2. Dimensional tolerances</b>				
Thickness (t)	EN 438-2 Sect. 5	8.0 ≤ t < 12.0	mm	± 0.50
		12.0 ≤ t < 16.0		± 0.60
		16.0 ≤ t < 20.0		± 0.70
		20.0 ≤ t < 25.0		± 0.80
Flatness (f)	EN 438-2 Sect. 9	6.0 ≤ t < 10.0	mm / m	8.0
		10.0 ≤ t		5.0
Length and width	EN 438-2 Sect. 6		mm	+10 / -0
Edge straightness	EN 438-2 Sect. 7		mm/m	1.5
Squareness	EN 438-2 Sect. 8		mm/m	1.5
<b>3. Physical properties</b>				
Resistance to surface wear	EN 438-2 Sect. 10	Wear value	Revolutions	≥ 350
Resistance to scratching	EN 438-2 Sect. 25	Strength	Rating	3
Light fastness	EN 438-2 Sect. 27	Appearance	Greyscale degree	≥ 2 (2)
Dimensional stability	EN 438-2 Sect. 17	Accumulated dimensional variation (t ≥ 6 mm)	Max longitudinal %	0.3
			Max transversal %	0.6
Resistance to impact	EN 438-2 Sect. 21	Drop height without mark above 10mm	mm	≥ 1,800
<b>4. EC Safety requirements</b>				
Water vapour permeability	EN 438-7 Sect. 4.4	Wet cup method	μ	110
		Dry cup method		250
Resistance to fixings	EN 438-7 Sect. 4.5	Strength t ≥ 8mm	N	> 3,000
		Strength t ≥ 10mm		> 4,000
Formaldehyde emission	EN 438-7 Sect. 4.11	Classification	Class	E1
Flexural strength	EN ISO 178	Longrain Crossgrain	MPa	≥ 80
Flexural elastic modulus	EN ISO 178	Longrain Crossgrain	MPa	≥ 9,000
Resistance to immersion in boiling water	EN 438-2 Sect. 12	Appearance	Delamination occurs/does not occur	Occurs
Density	EN ISO 1183	Density	g/cm <sup>3</sup>	≥ 1.35
<b>5. EC Safety requirements - Reaction to fire</b>				
Reaction to fire	EN 13,501-1	Euroclass t ≥ 8 mm	Classification	B-s1,d0
<b>6. Optional features upon request</b>				
Determination of antibacterial activity	ISO 22196 (JIS Z 2801)		% reduction after 24h (S. aureus and E. coli)	99.99

<sup>(1)</sup> Providing the panels are stored according to the manner and conditions recommended by the manufacturer.

<sup>(2)</sup> Except maple wood, which has a rating < 2





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