ACÚSTICA21

sistemas de condicionamento acústico

acoustic conditioning systems

CF FIRE PROTECTION. A1 - A2

INFORMAÇÃO TÉCNICA
TECHNICAL INFORMATION

Produto *Product*	**LAMINADO** *LAMINATE*
Acabamentos *Finishes*	Laminado *Laminate*
Opções Acústicas *Acoustic Options*	R,S,M,N
Formatos Standard *Standard Formats*	3030 x 1200 mm | 3000 x 164 mm 2560 x 1200 mm | 2500 x 164 mm

Produto *Product*	**FOLHEADO** *VENEER*
Acabamentos *Finishes*	Folheado *Veneer*
Opções Acústicas *Acoustic Options*	R,S,M,N
Formatos Standard *Standard Formats*	3100 x 1260 mm | 3000 x 164 mm 2560 x 1260 mm | 2500 x 164 mm

Produto *Product*	**PINTADO** *PAINT*
Acabamentos *Finishes*	Verniz *Varnish*
Opções Acústicas *Acoustic Options*	R,S,M,N
Formatos Standard *Standard Formats*	3100 x 1260 mm | 3000 x 164 mm 2560 x 1260 mm | 2500 x 164 mm

Produto *Product*	**CRIATIVO** *Creative*
Acabamentos *Finishes*	Impressão Decorativa *Decor Printing*
Opções Acústicas *Acoustic Options*	R,S,M,N
Formatos Standard *Standard Formats*	3100 x 1260 mm | 3000 x 164 mm 2560 x 1260 mm | 2500 x 164 mm

NANOPERFURADO
NANOPERFORATED

MICROPERFURADO
MICROPERFORATED

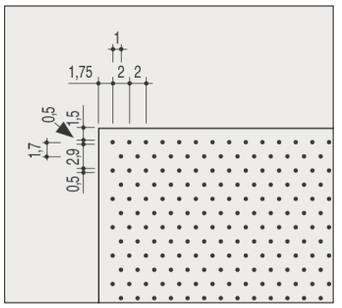
RANHURADOS
SLOTTED

PERFURAÇÃO REDONDA
ROUND PERFORATION

Características Gerais
General Characteristics

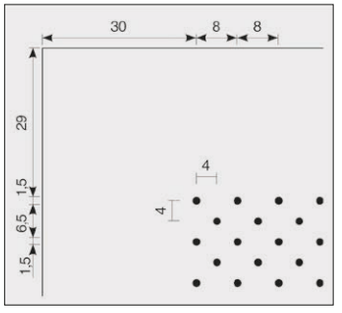
Espessura *Thickness*	18 MM
Tardoz *Reverse side*	Tela Acústica colada em fábrica. *Factory glued acoustic fleece.*
Classificação *Classification*	A2-S1, d0 de acordo com a norma EN 13501-01 (não combustível) *A2-S1, d0 according to EN13501-01(non-combustible)*
Conformidades *Conformities*	VOC regulation, AgBB, EMICODE, Blue Angel, BREEAM, LEED
Áreas de Aplicação *Areas of Application*	Espaços abertos, salas de conferência, escolas, restaurantes, pavilhões, auditórios. *Open-spaces, conference rooms, schools, restaurants, pavilions, auditoriums.*

NANOPERFURAÇÃO
NANOPERFORATION

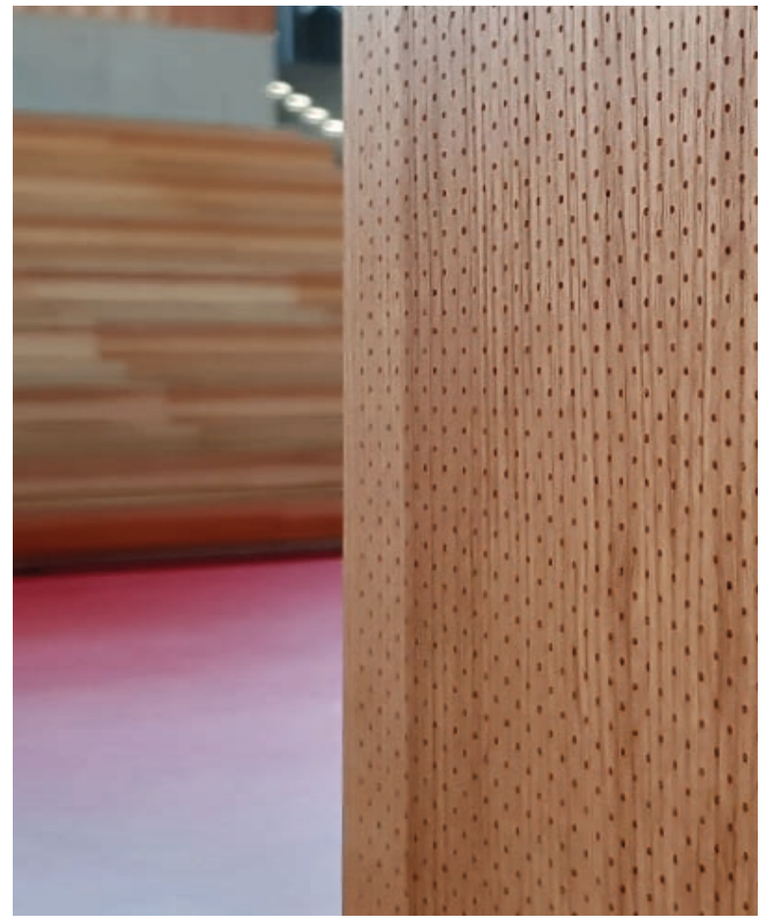


Absorção Sonora Classe C / B / A *Sound Absorption Class C / B / A*	α_w **= 0,60 - 0,90 (LM)**
Norma *Norm*	DIN EN ISO 11654
Tipo de Perfuração *Perforation Type*	0,5/ 3,4-1 N
Taxa de Perfuração *Rate of Perforation*	5,77 %
Acabamento *Finish*	Folheado *Veneer* Laminado *Laminate*

MICROPERFURAÇÃO
MICROPERFORATION



Absorção Sonora Classe C / B / A *Sound Absorption Class D / C / B*	α_w **= 0,55 (L) - 0,80**
Norma *Norm*	DIN EN ISO 11654
Tipo de Perfuração *Perforation Type*	8 / 16 R
Taxa de Perfuração *Rate of Perforation*	19,2 %
Acabamento *Finish*	Folheado *Veneer* Laminado *Laminate* Pintado (Revestimento) *Paint (Coating)* Criativo (Impressão Decorativa) *Creative (Print Decor)*

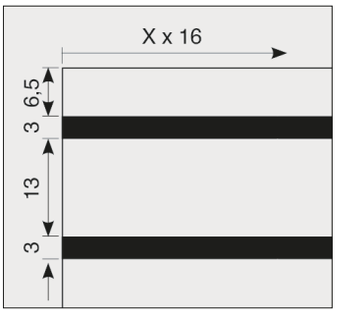


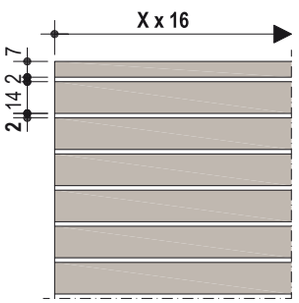
RANHURADOS
SLOTTED

Absorção Sonora Classe C / B / A
Sound Absorption Class D / C / B

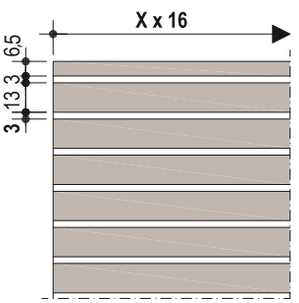
α_w **= 0,45 (MH) - 0,80**

Norma *Norm*	DIN EN ISO 11654
Tipo de Perfuração *Perforation Type*	3 / 16 S
Taxa de Perfuração *Rate of Perforation*	18,8 %
Acabamento *Finish*	Folheado *Veneer* Laminado *Laminate* Pintado (Revestimento) *Paint (Coating)* Criativo (Impressão Decorativa) *Creative (Print Decor)*

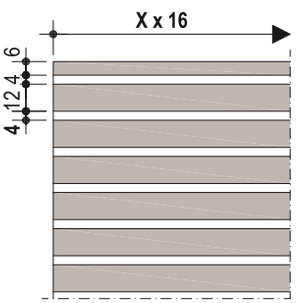




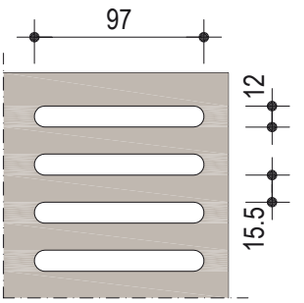
2-16 F / S



3-16 F / S



4-16 F / S



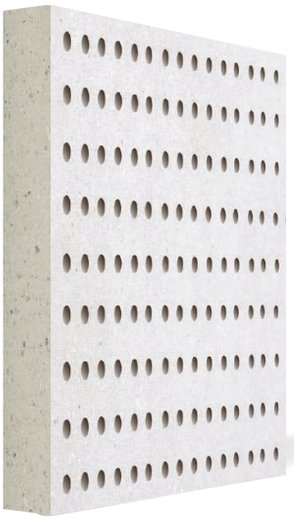
12-97 / 27.5 L

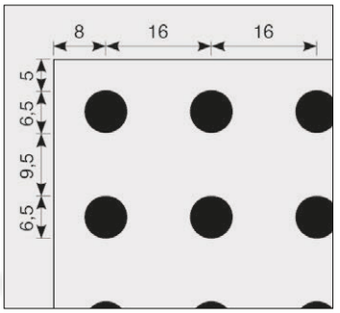
PERFURAÇÃO REDONDA
ROUND PERFORATION

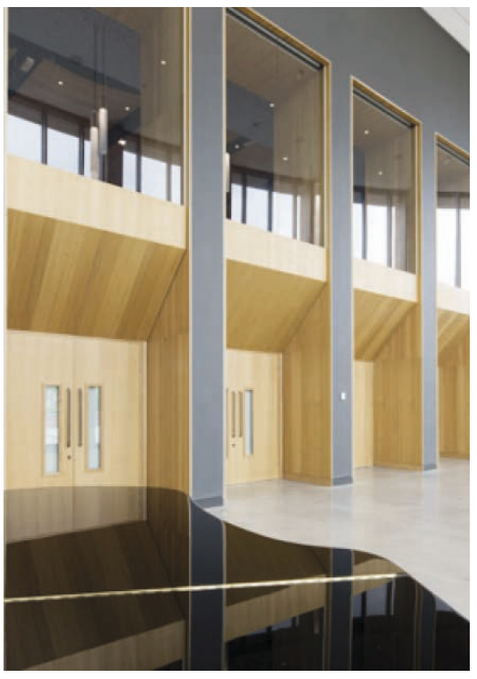
Absorção Sonora Classe C / B / A
Sound Absorption Class D / C / B

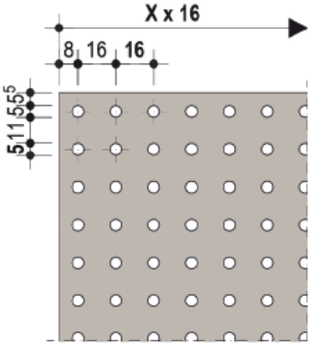
α_w **= 0,55 (H) - 0,80**

Norma *Norm*	DIN EN ISO 11654
Tipo de Perfuração *Perforation Type*	8 / 16 R
Taxa de Perfuração *Rate of Perforation*	19,2 %
Acabamento *Finish*	Folheado *Veneer* Laminado *Laminate* Pintado (Revestimento) *Paint (Coating)* Criativo (Impressão Decorativa) *Creative (Print Decor)*

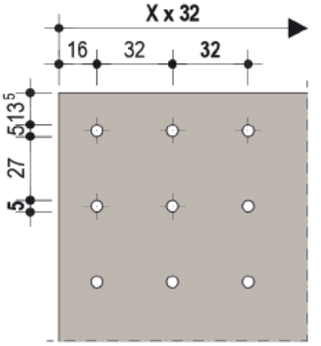




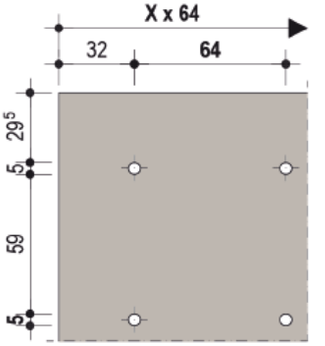




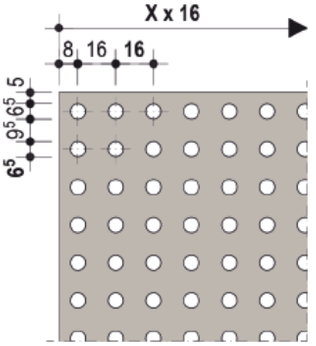
5/16 R



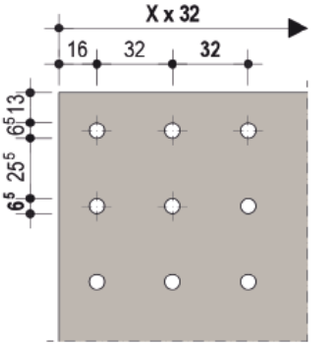
5/32 R



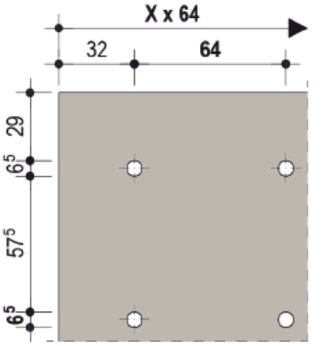
5/64 R*



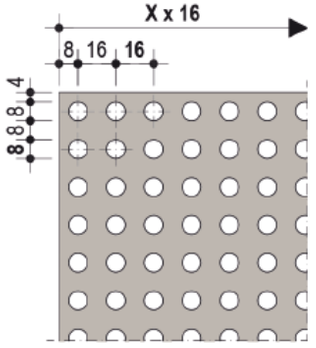
6.5/16 R



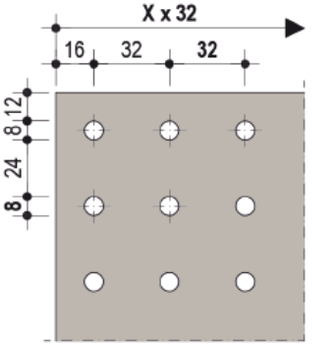
6.5/32 R*



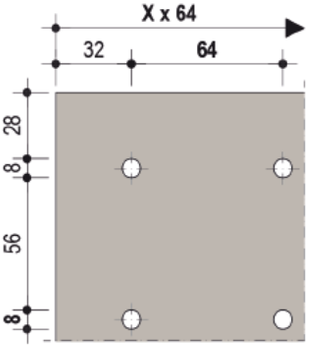
6.5/64 R



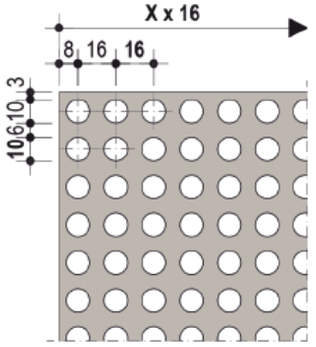
8/16 R



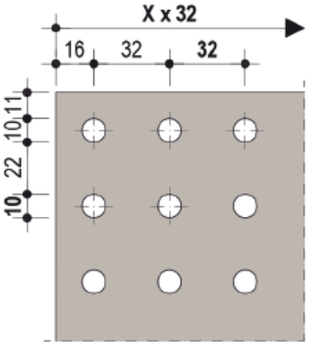
8/32 R



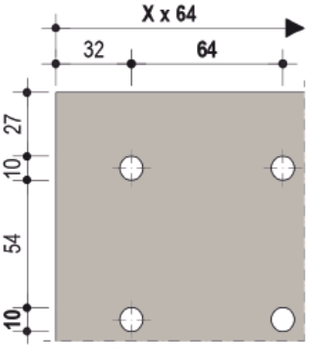
8/64 R



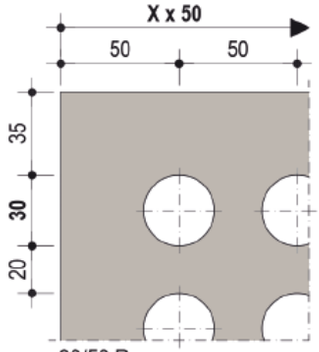
10/16 R



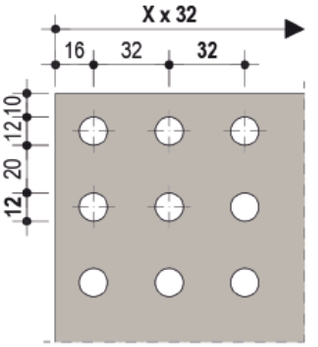
10/32 R



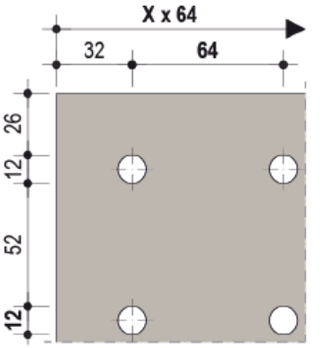
10/64 R



30/50 R



12/32 R



12/64 R

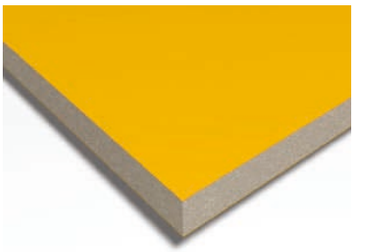
PERFURAÇÃO CONTÍNUA
CONTINUOUS PERFORATION

Modelo *Design*	**Configuração** *Configuration*	**Taxa de Perfuração (placa) em %** *Perforation proportion (board) in %*	**Peso aprox. em kg/m2 /** *Approx. board weight in kg/m²*	
			Com densidade 1100 kg/m3 *With density 1100 kg/m3*	**Com densidade 1500 kg/m3** *With density 1500 kg/m3*
Nanoperfurado/ *Nanoperforation*	0.5 / 3.4-1 N	5.77	18.7	25,4
Microperfurado/ *Microperforation*	1.5 / 8-4 M	5.4	18.7	25.5
Perfuração Redonda *Round Perforation*	5-16 R	7.5	18.3	25.0
	5-32 R	1.9	19.4	26.5
	6.5-16 R	12.7	17.3	23.6
	6.5-64 R	0.9	19.6	26.8
	8-16 R	19.2	16.0	21.8
	8-32 R	5.0	18.8	25.7
	8-64 R	1.3	19.5	26.6
	10-16 R	30.7	13.7	18.7
	10-32 R	7.8	18.3	24.9
	10-64 R	2.1	19.4	26.4
	12-32 R	11.2	17.6	24.0
	12-64 R	3.0	19.2	26.2
	30-50 R	24.8	—	—
Ranhurados *Slotted*	12-97 / 27.5 L	36.8	12.5	17.1
Ranhurados *Slotted*	2-16 S	12.5	17.3	23.6
	3-16 S	18.8	16.1	21.9
	4-16 S	25.0	14.9	20.3
Ranhurados - Frente *Front slots*	2-16 F	12.5	17.3	23.6
	3-16 F	18.8	16.1	21.9
	4-16 F	25.0	14.9	20.3

ACABAMENTOS
FINISHES

Folheado
Veneer

Laminado
Laminate



Pintado
Painted

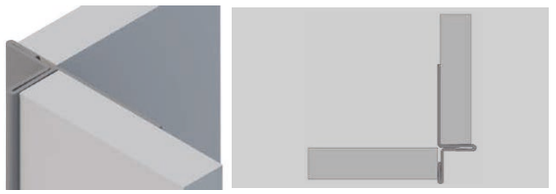
Criativo
Creative

Outros acabamentos sob consulta.
Other finishings on request.

ACESSÓRIOS
ACCESSORIES

P1 Perfil de Canto a 45º (15 x15 mm / 22 x 22 mm)
P1 Miter Profile 45º (15 x15 mm / 22 x 22 mm)

P2 Perfil Estrela (15 x15 mm / 22 x 22 mm)
P2 Star Profile 45º (15 x15 mm / 22 x 22 mm)



P3 Perfil de Ligação (15 x15 mm / 22 x 22 mm)
P3 Square Profile 45º (15 x15 mm / 22 x 22 mm)

P4 Perfil de Ligação (15 x15 mm / 22 x 22 mm)
P4 Connection Profile 45º (15 x15 mm / 22 x 22 mm)

P5 Perfil de Acabamento (15 x15 mm / 22 x 22 mm)
P5 Finishing Profile 45º (15 x15 mm / 22 x 22 mm)

PROTECT

A2
not-combustible

MONTAGEM
ASSEMBLY

VANTAGENS
ADVANTAGES

1. Aplicação em Paredes e Tectos.
Application on walls and ceilings.

2. Classe de fogo de acordo com a norma EN 13501-1.
Fire class according to EN 13501-1.

3. Não combustível A2 - S1, d0.
Non - combustible A2 - S1, d0.

4. Possibilidade de pré-montagem da substrutura.
Possibiliity of pre-assembly of the sub structure.

5. Fácil Instalação.
Easy Installation.

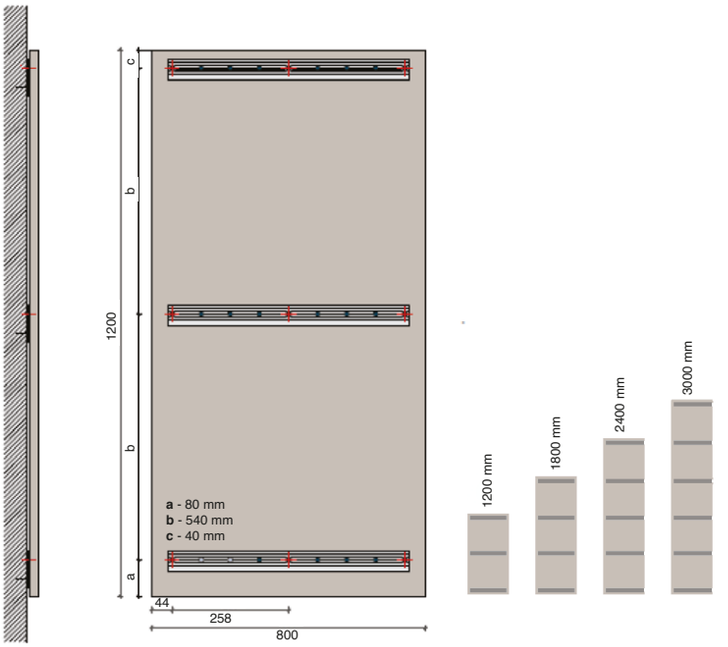
6. Pode ser desmontado com uma folga de 8mm.
Can be disassembled with a clearance of 8mm.

7. Ajustável.
Adjustable.

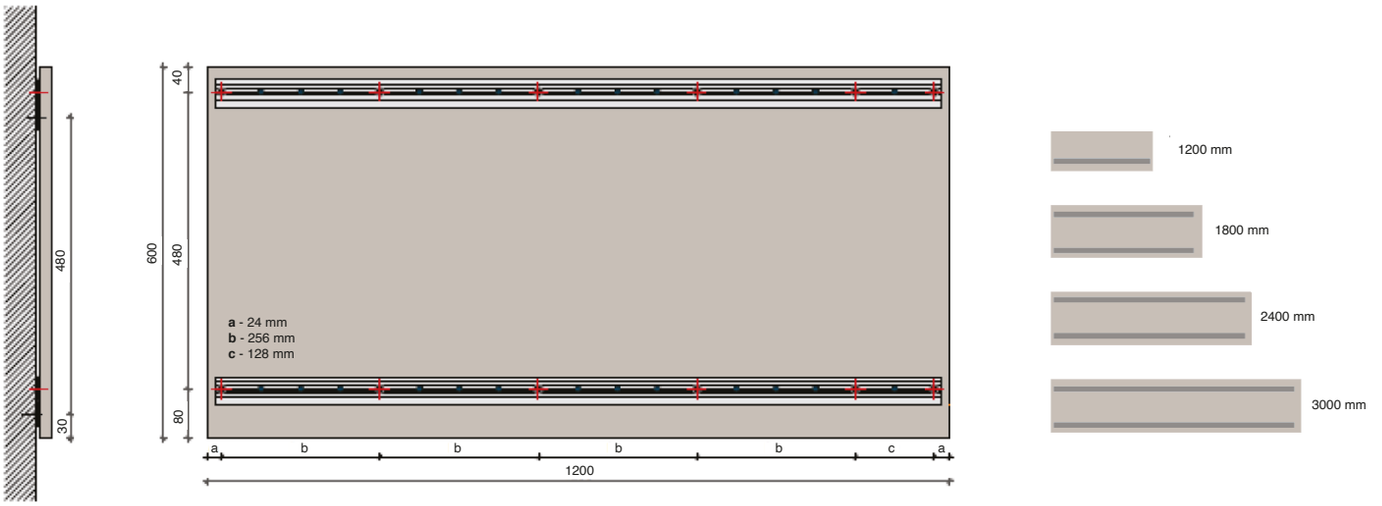
SUB-CONSTRUCTION

A2 not-combustible

VERTICAL
VERTICAL

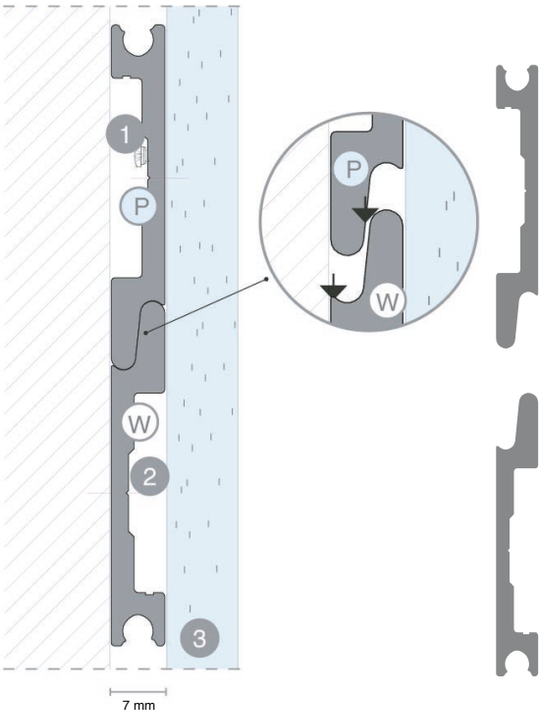


HORIZONTAL
HORIZONTAL



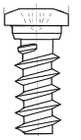
ALTERNATIVA PARA PAINÉIS PESADOS: SISTEMA DE PERFIS PARA PAREDES

ALTERNATIVE FOR HEAVY PANELS: WALL PROFILE SYSTEMS



Montagem de painéis com parafuso Euro.
Panel's assembly with Euro screws.

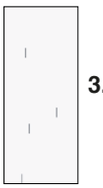
Parede existente, estável e nivelada com acessórios de fixação adequados.
Existing wall stable and levelled with proper fixing accessories.



1. Parafusos Euro para fixação à placa de fibra de gesso cabeça.
Cabeça cilindrica.
Galvanizado, tipo 1.

Euro screws for fixing the slip battens of the gypsum fibre board.
Cylinder head.
Type 1 galvanized.

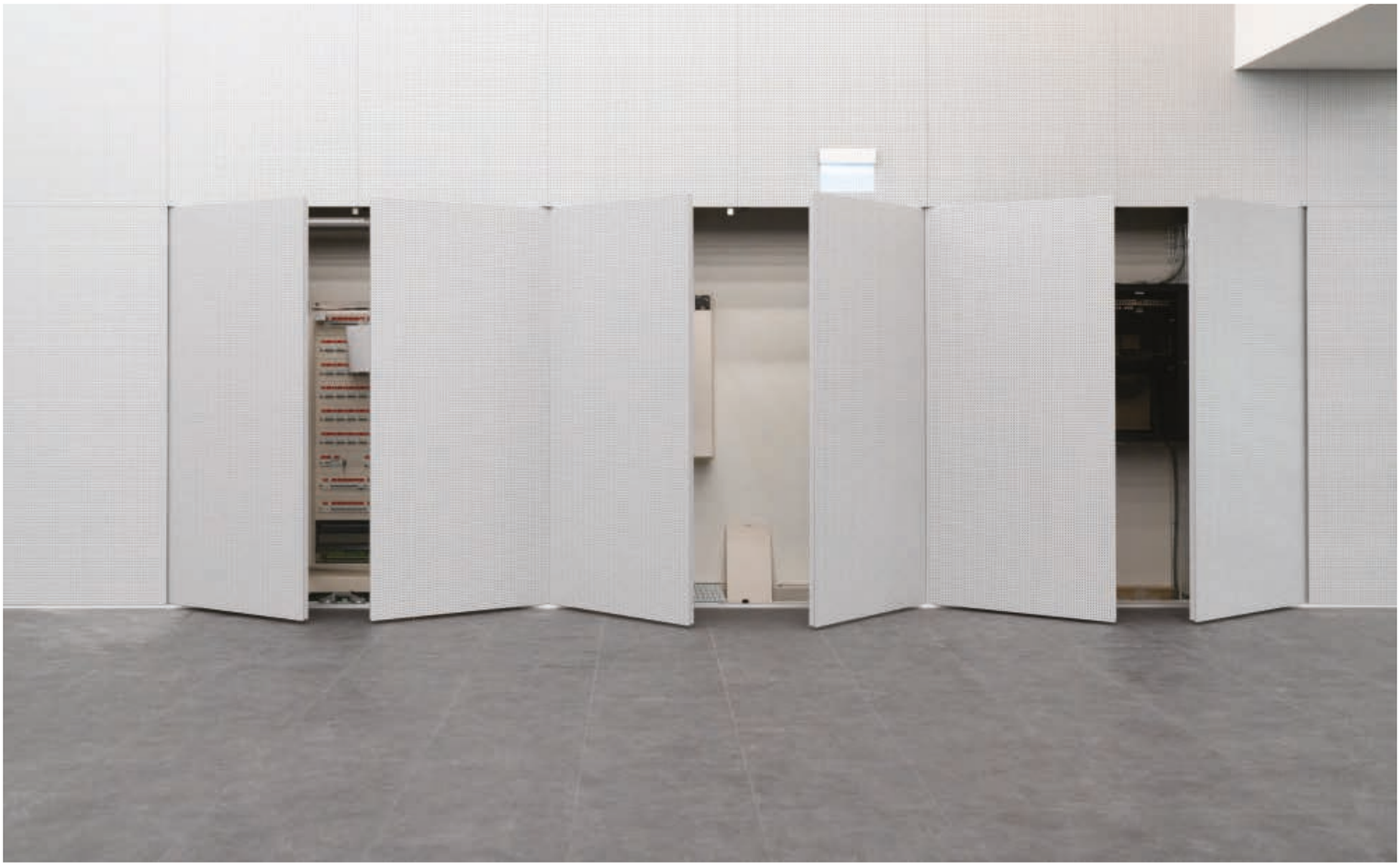
2. Fixação adequada à parede existente.
Suitable fastening to existing wall.

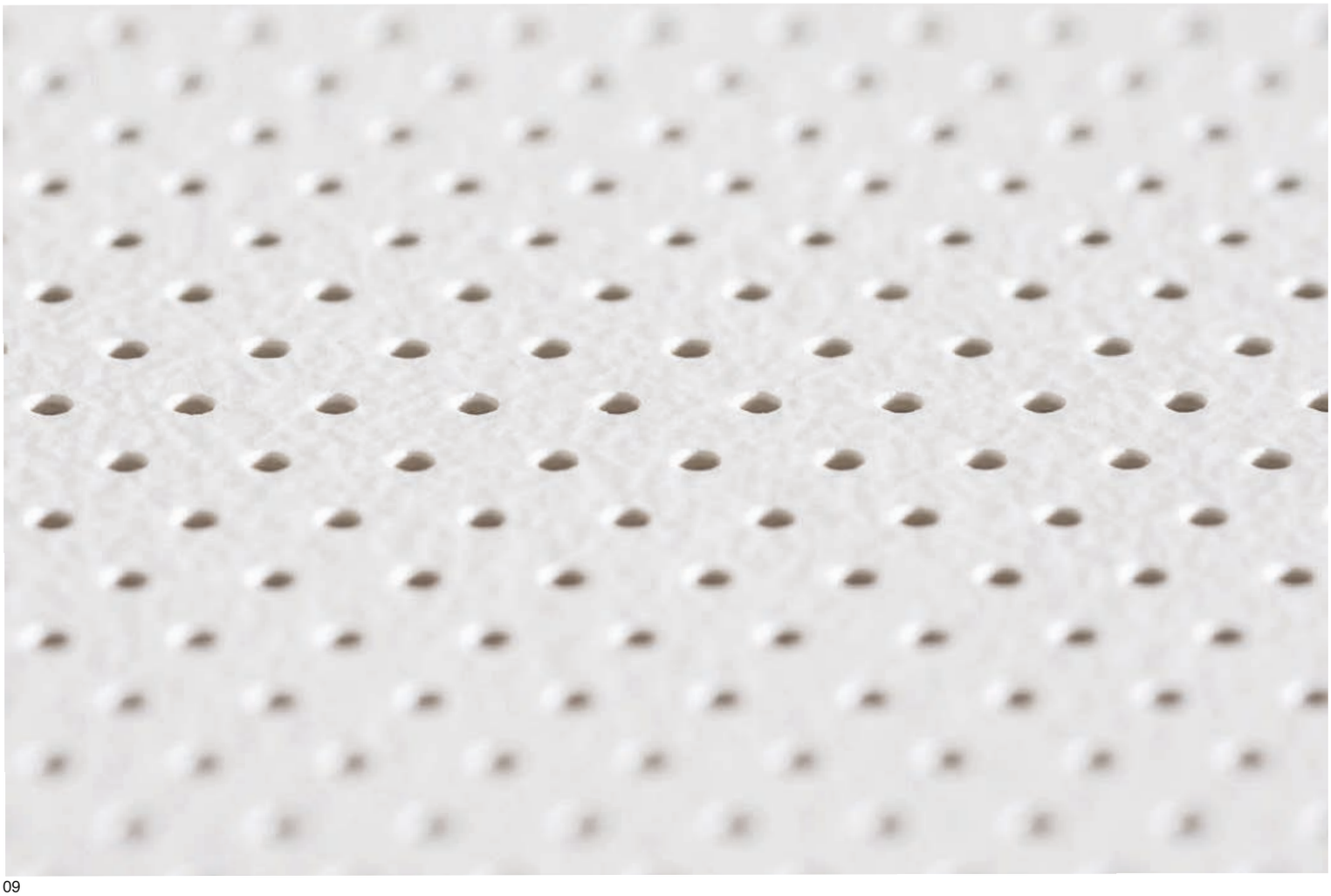


3. CF FIRE PROTECTION.

Recomendação: Utilize uma aparafusadora sem fios com limitador de profundidade. O parafuso não deverá ficar demasiado apertado.

Recommendation: *Use a cordless screwdriver with a torque limiter - the screw must not be overtightened.*





CASTELHANO E FERREIRA PLANOFFICE ACOUSTICS & PARTITIONS

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SYSTEM CERTIFICATION BMTRADA ISO 9001

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Formulating your space.

Com quatro décadas de experiência dedicados à otimização de espaços de trabalho, a Castelhano e Ferreira desenvolve soluções que acompanham a evolução constante dos processos de trabalho e organização das equipas enquanto parceiro estratégico.

Desenvolvemos soluções especifícas para cada área de negócio de acordo com as necessidades do cliente onde o fator-chave está na integração de todas as fases de projeto e conceção da obra formulando espaços de trabalho, funcionais, modulares e versáteis.

With four decades of experience dedicated to optimization of workspaces, Castelhano e Ferreira develops solutions to keep up with the constantly changing work processes and organization of the teams as a strategic partner.

We develop specific solutions for each business area according to the client's needs, where the key factor is the integration of all phases of project and construction design, formulating functional, modular, and versatile workspaces.

N/REF. CFAFP
REV.1
DATA: JANEIRO 2023