

Acoustic Perforations Library

Version 1 2026

Featurecraft®

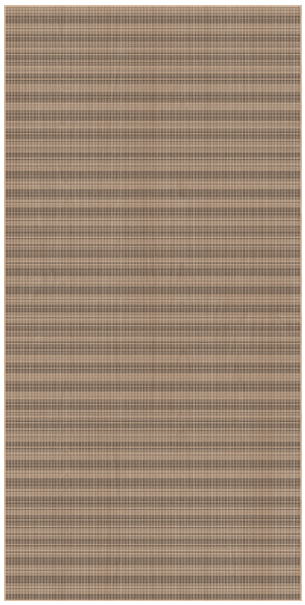
(NZ) 06 842 0004
(AU) 1800 958 382
sales@featurecraft.com
featurecraft.com
@featurecraft_

Perforated - Grid Holes

Round holes drilled through the full panel thickness in a straight, evenly spaced grid. The simplest perforation pattern, available across a range of hole diameters and centres to suit the acoustic performance and visual density required.

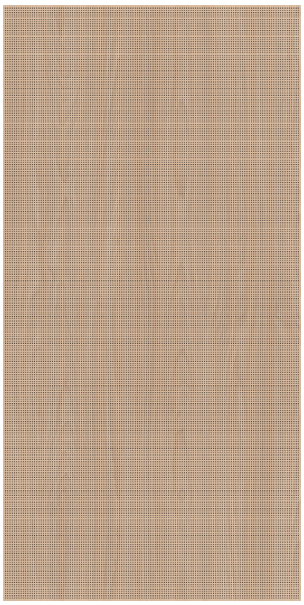
Machining Type	Perforated
Pattern Family	Grid Holes

GH01



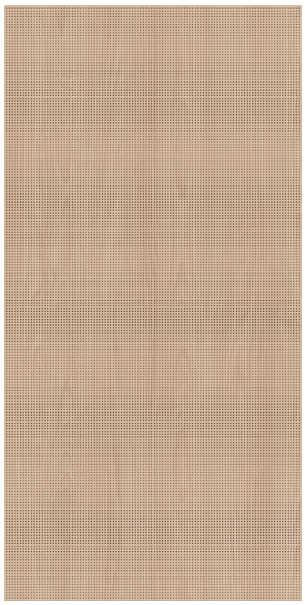
Hole Diameter	3mm
Horizontal Spacing	6mm
Vertical Spacing	6mm
NRC Rating	0.85
Opening Area	19.35%

GH02



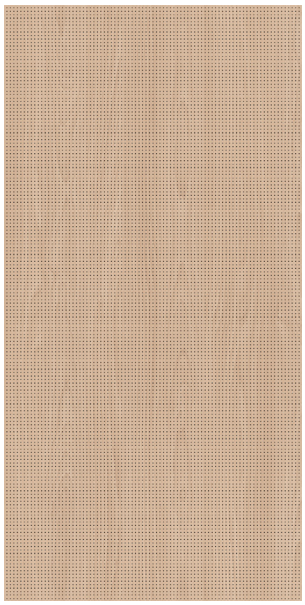
Hole Diameter	3mm
Horizontal Spacing	9mm
Vertical Spacing	9mm
NRC Rating	0.75
Opening Area	8.61%

GH03



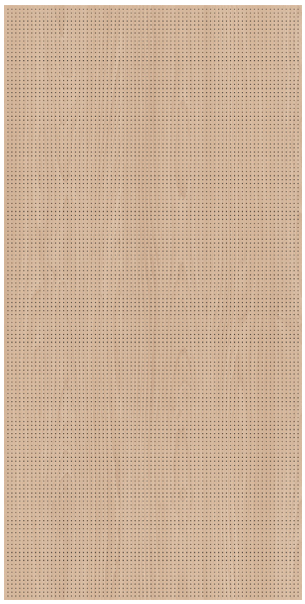
Hole Diameter	3mm
Horizontal Spacing	11mm
Vertical Spacing	11mm
NRC Rating	0.65
Opening Area	5.75%

GH04



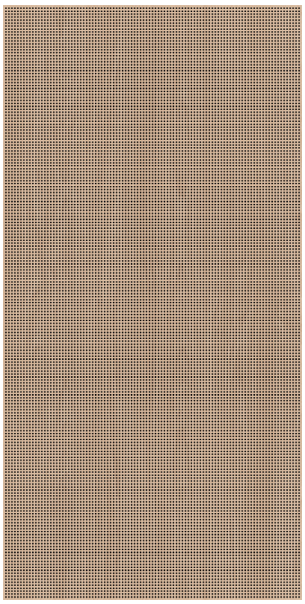
Hole Diameter	3mm
Horizontal Spacing	14mm
Vertical Spacing	14mm
NRC Rating	0.55
Opening Area	3.57%

GH05



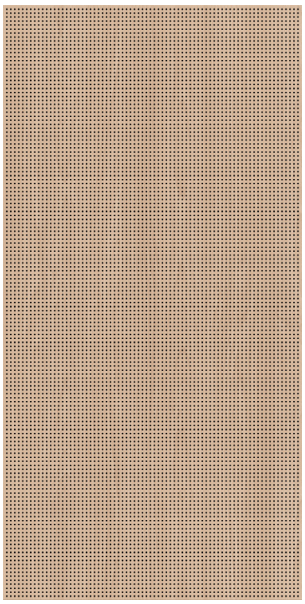
Hole Diameter	3mm
Horizontal Spacing	16mm
Vertical Spacing	16mm
NRC Rating	0.45
Opening Area	2.71%

GH06



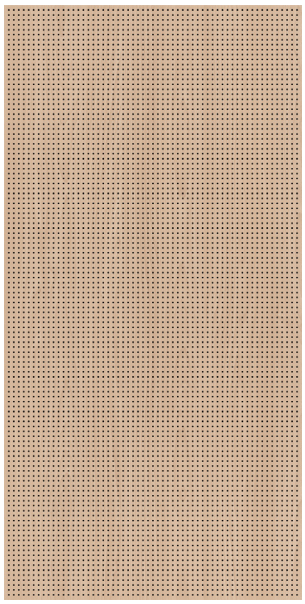
Hole Diameter	6mm
Horizontal Spacing	12mm
Vertical Spacing	12mm
NRC Rating	0.90
Opening Area	19.34%

GH07



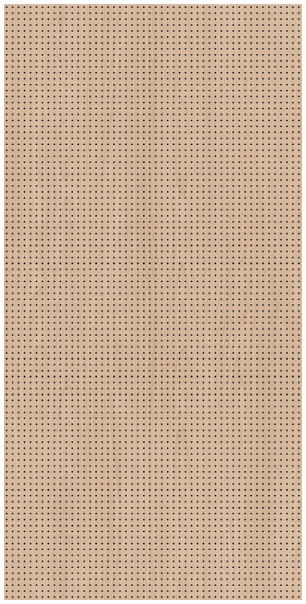
Hole Diameter	6mm
Horizontal Spacing	16mm
Vertical Spacing	16mm
NRC Rating	0.80
Opening Area	10.83%

GH08



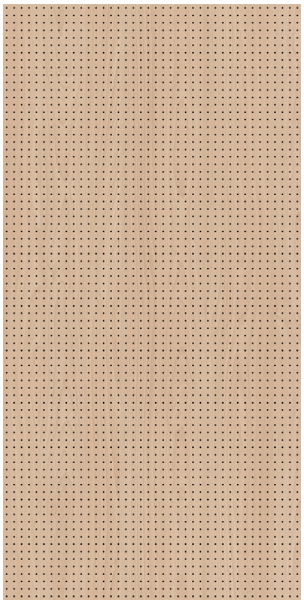
Hole Diameter	6mm
Horizontal Spacing	20mm
Vertical Spacing	20mm
NRC Rating	0.75
Opening Area	6.89%

GH09



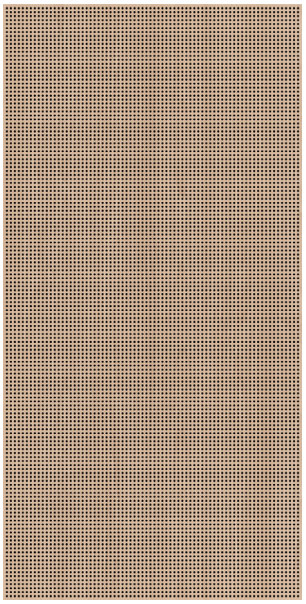
Hole Diameter	6mm
Horizontal Spacing	24mm
Vertical Spacing	24mm
NRC Rating	0.65
Opening Area	4.91%

GH10



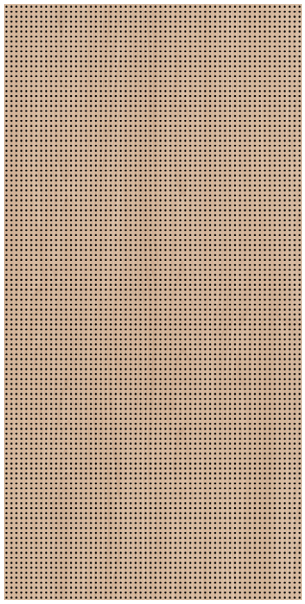
Hole Diameter	6mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.50
Opening Area	3.14%

GH11



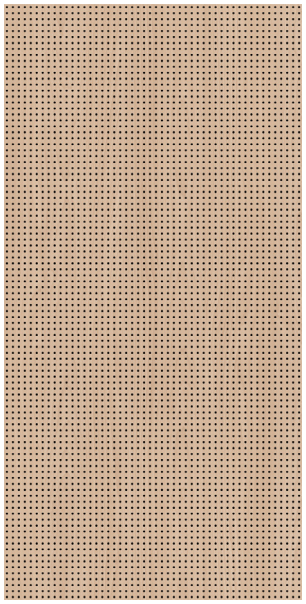
Hole Diameter	8mm
Horizontal Spacing	16mm
Vertical Spacing	16mm
NRC Rating	0.90
Opening Area	19.24%

GH12



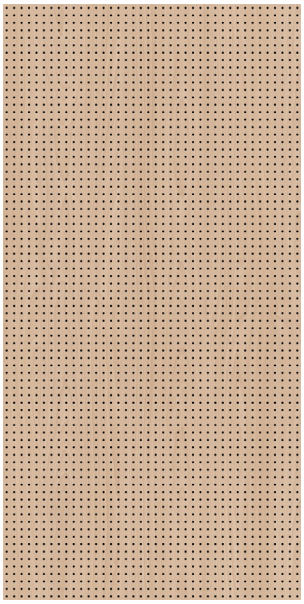
Hole Diameter	8mm
Horizontal Spacing	20mm
Vertical Spacing	20mm
NRC Rating	0.85
Opening Area	12.57%

GH13



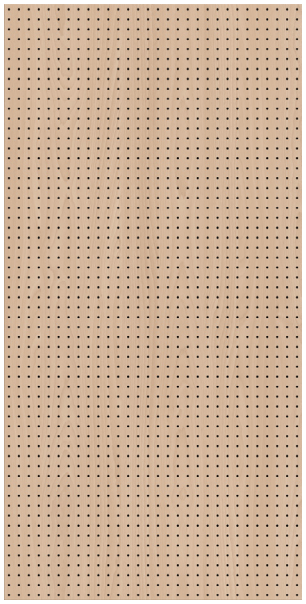
Hole Diameter	8mm
Horizontal Spacing	24mm
Vertical Spacing	24mm
NRC Rating	0.80
Opening Area	8.72%

GH14



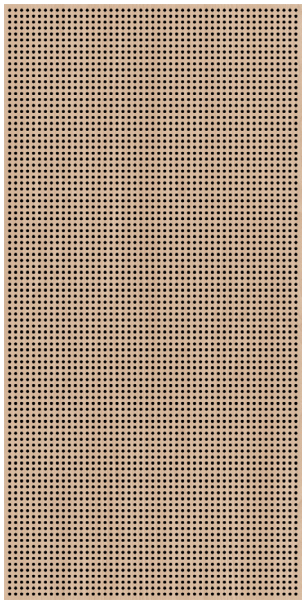
Hole Diameter	8mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.65
Opening Area	5.59%

GH15



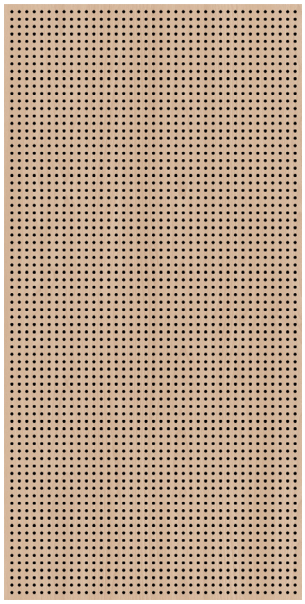
Hole Diameter	8mm
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.50
Opening Area	3.14%

GH16



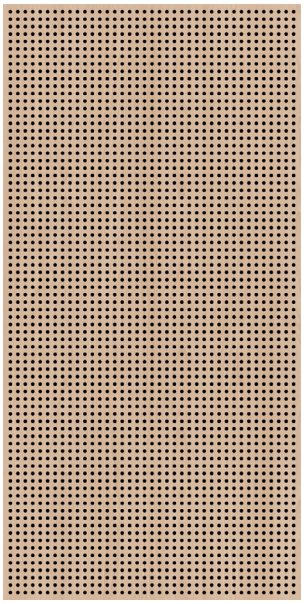
Hole Diameter	12mm
Horizontal Spacing	24mm
Vertical Spacing	24mm
NRC Rating	0.95
Opening Area	19.05%

GH17



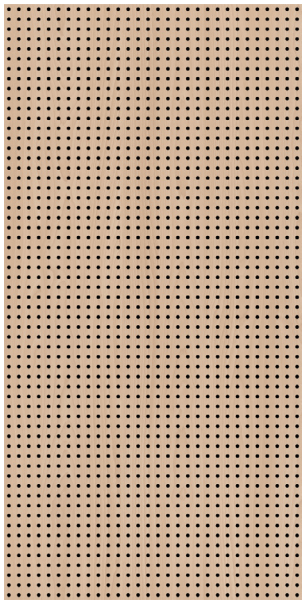
Hole Diameter	12mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.85
Opening Area	12.10%

GH18



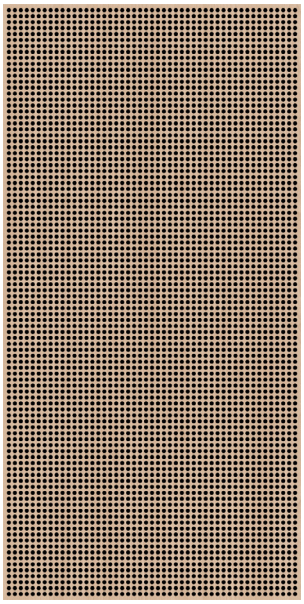
Hole Diameter	14mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.90
Opening Area	16.48%

GH19



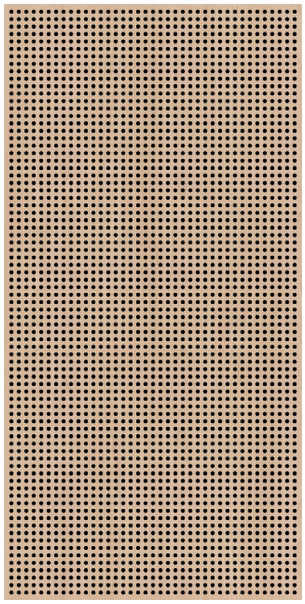
Hole Diameter	14mm
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.80
Opening Area	9.62%

GH20



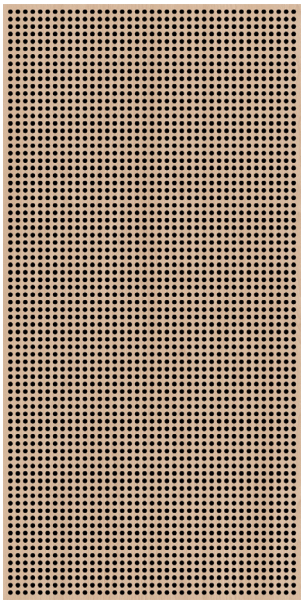
Hole Diameter	16mm
Horizontal Spacing	24mm
Vertical Spacing	24mm
NRC Rating	1.00
Opening Area	33.90%

GH21



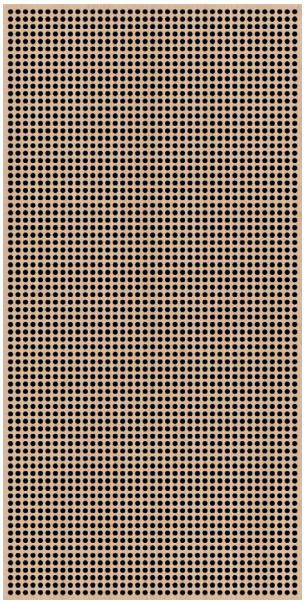
Hole Diameter	16mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.95
Opening Area	21.49%

GH22



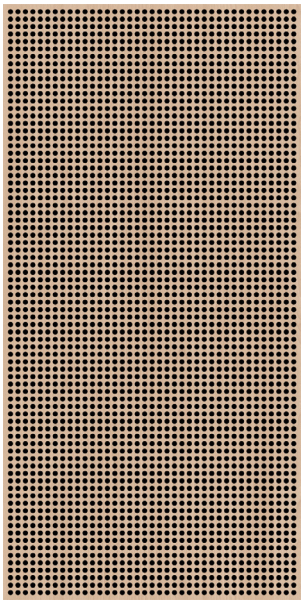
Hole Diameter	18mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	1.00
Opening Area	27.25%

GH23



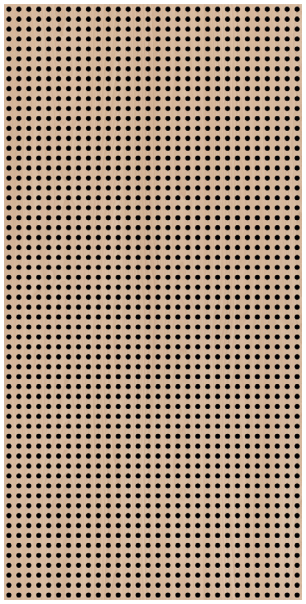
Hole Diameter	18mm
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.90
Opening Area	15.90%

GH24



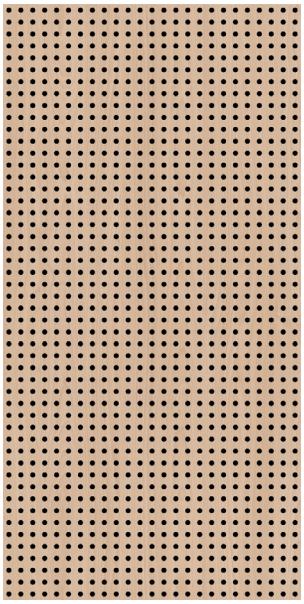
Hole Diameter	20mm
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	1.00
Opening Area	33.59%

GH25



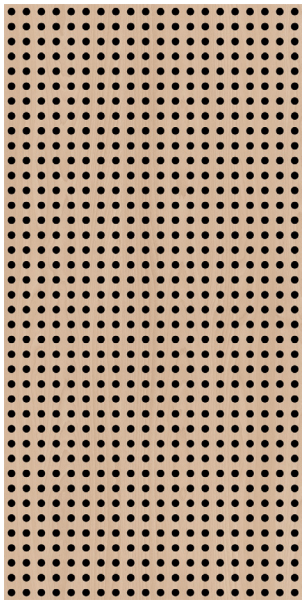
Hole Diameter	20mm
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.95
Opening Area	19.64%

GH26



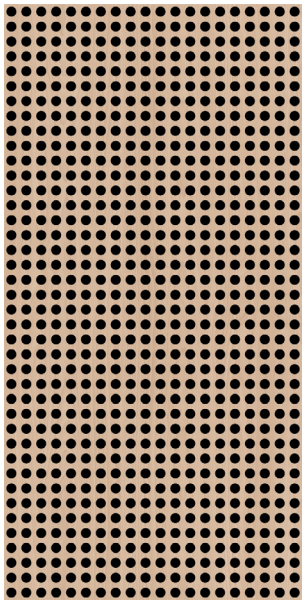
Hole Diameter	20mm
Horizontal Spacing	48mm
Vertical Spacing	48mm
NRC Rating	0.85
Opening Area	13.64%

GH27



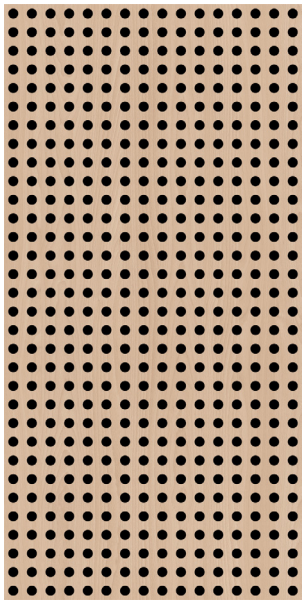
Hole Diameter	30mm
Horizontal Spacing	60mm
Vertical Spacing	60mm
NRC Rating	0.90
Opening Area	19.62%

GH28



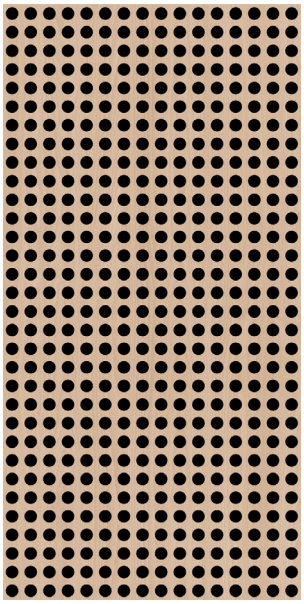
Hole Diameter	40mm
Horizontal Spacing	60mm
Vertical Spacing	60mm
NRC Rating	1.00
Opening Area	34.91%

GH29



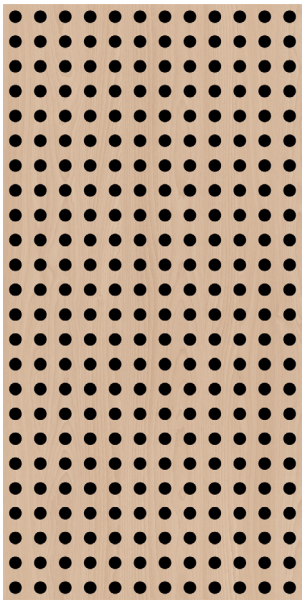
Hole Diameter	40mm
Horizontal Spacing	75mm
Vertical Spacing	75mm
NRC Rating	0.90
Opening Area	22.36%

GH30



Hole Diameter	50mm
Horizontal Spacing	75mm
Vertical Spacing	75mm
NRC Rating	1.00
Opening Area	34.91%

GH31



Hole Diameter	50mm
Horizontal Spacing	100mm
Vertical Spacing	100mm
NRC Rating	0.85
Opening Area	19.64%

Perforated - Diagonal Holes

Round holes perforated through the panel on a 45-degree diagonal grid, so each row is offset from the next. Gives a softer, more visually even surface than a straight grid while providing the same acoustic openness.

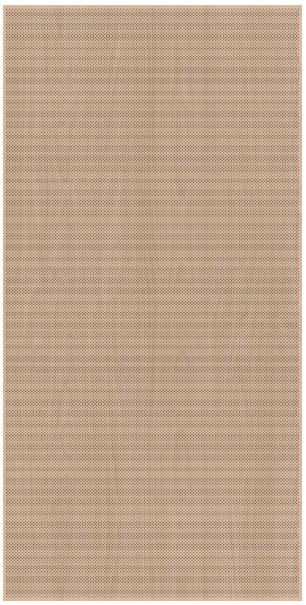
Machining Type	Perforated
Pattern Family	Diagonal Holes

DH01



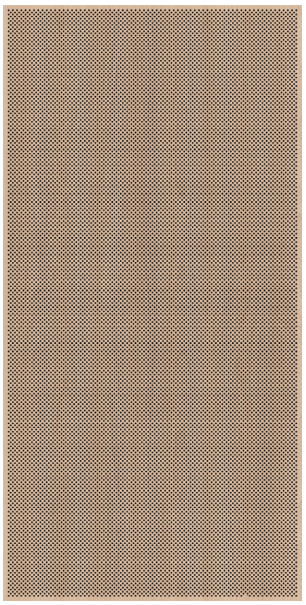
Hole Diameter	3mm
Diagonal Spacing	6mm
Horizontal Spacing	8.5mm
Vertical Spacing	8.5mm
NRC Rating	0.85
Opening Area	19.07%

DH02



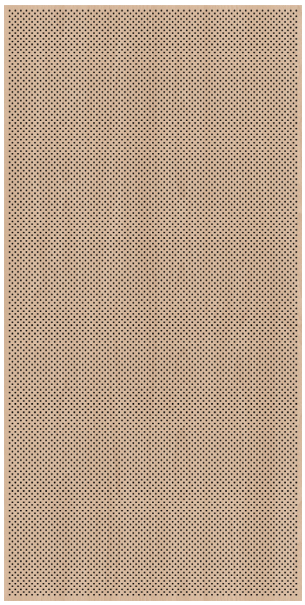
Hole Diameter	3mm
Diagonal Spacing	9mm
Horizontal Spacing	12.73mm
Vertical Spacing	12.73mm
NRC Rating	0.75
Opening Area	8.48%

DH03



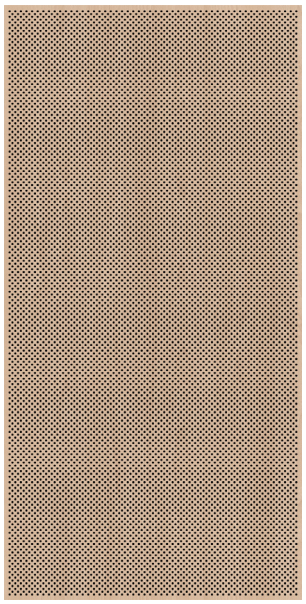
Hole Diameter	6mm
Diagonal Spacing	12mm
Horizontal Spacing	16.97mm
Vertical Spacing	16.97mm
NRC Rating	0.90
Opening Area	18.75%

DH04



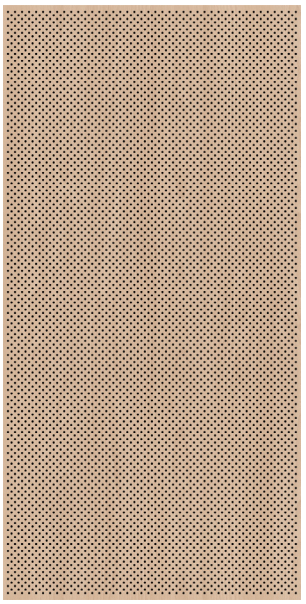
Hole Diameter	6mm
Diagonal Spacing	16mm
Horizontal Spacing	22.63mm
Vertical Spacing	22.63mm
NRC Rating	0.80
Opening Area	10.56%

DH05



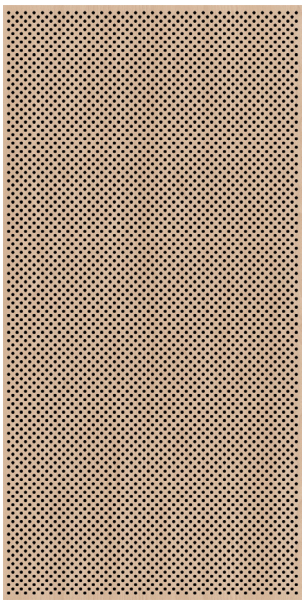
Hole Diameter	8mm
Diagonal Spacing	16mm
Horizontal Spacing	22.63mm
Vertical Spacing	22.63mm
NRC Rating	0.90
Opening Area	18.79%

DH06



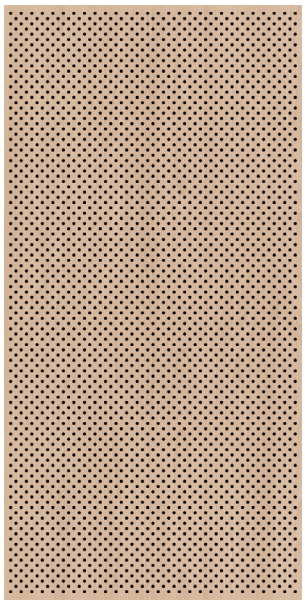
Hole Diameter	8mm
Diagonal Spacing	20mm
Horizontal Spacing	28.28mm
Vertical Spacing	28.28mm
NRC Rating	0.85
Opening Area	12.10%

DH07



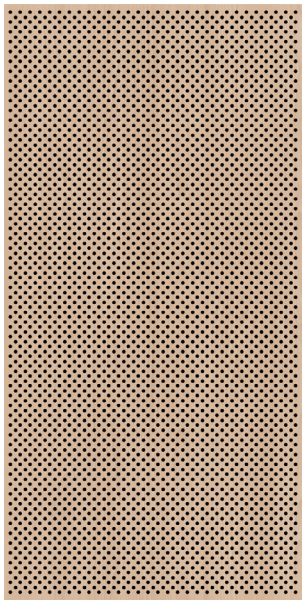
Hole Diameter	12mm
Diagonal Spacing	24mm
Horizontal Spacing	33.94mm
Vertical Spacing	33.94mm
NRC Rating	0.95
Opening Area	18.82%

DH08



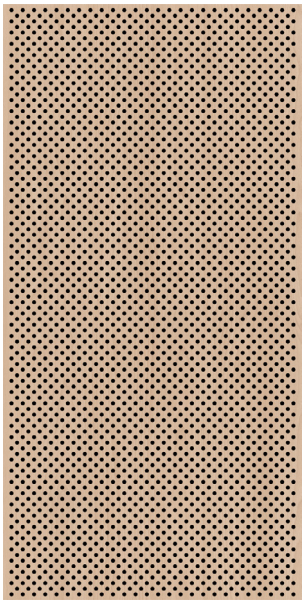
Hole Diameter	12mm
Diagonal Spacing	30mm
Horizontal Spacing	42.43mm
Vertical Spacing	42.43mm
NRC Rating	0.85
Opening Area	11.99%

DH09



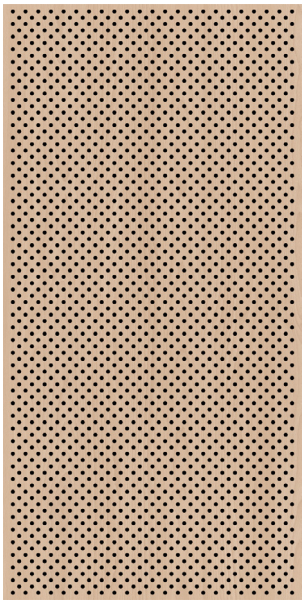
Hole Diameter	14mm
Diagonal Spacing	28mm
Horizontal Spacing	39.60mm
Vertical Spacing	39.60mm
NRC Rating	0.95
Opening Area	18.78%

DH10



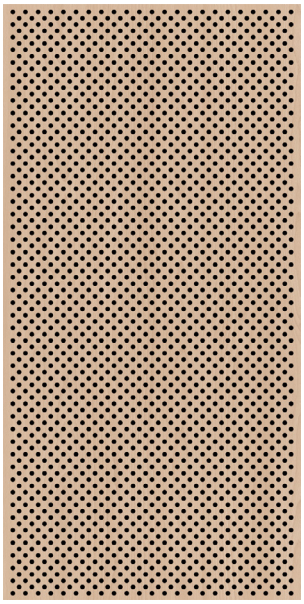
Hole Diameter	16mm
Diagonal Spacing	32mm
Horizontal Spacing	45.25mm
Vertical Spacing	45.25mm
NRC Rating	0.95
Opening Area	18.67%

DH11



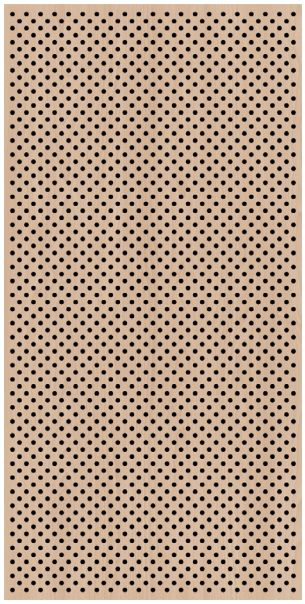
Hole Diameter	16mm
Diagonal Spacing	36mm
Horizontal Spacing	50.91mm
Vertical Spacing	50.91mm
NRC Rating	0.90
Opening Area	14.63%

DH12



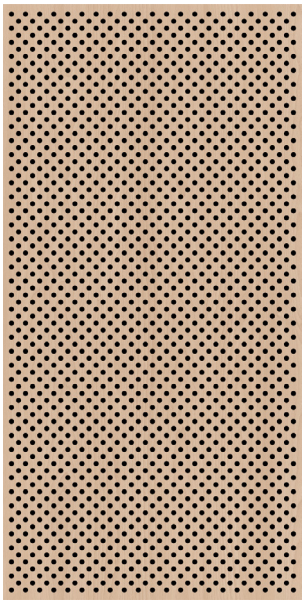
Hole Diameter	18mm
Diagonal Spacing	36mm
Horizontal Spacing	50.91mm
Vertical Spacing	50.91mm
NRC Rating	0.95
Opening Area	18.49%

DH13



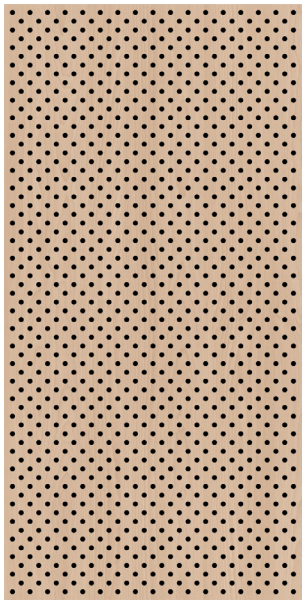
Hole Diameter	18mm
Diagonal Spacing	40mm
Horizontal Spacing	56.57mm
Vertical Spacing	56.57mm
NRC Rating	0.90
Opening Area	15.04%

DH14



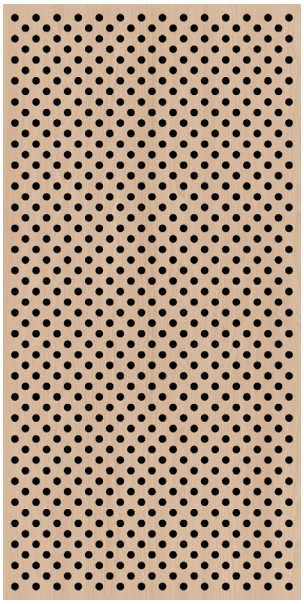
Hole Diameter	20mm
Diagonal Spacing	40mm
Horizontal Spacing	56.57mm
Vertical Spacing	56.57mm
NRC Rating	0.95
Opening Area	18.57%

DH15



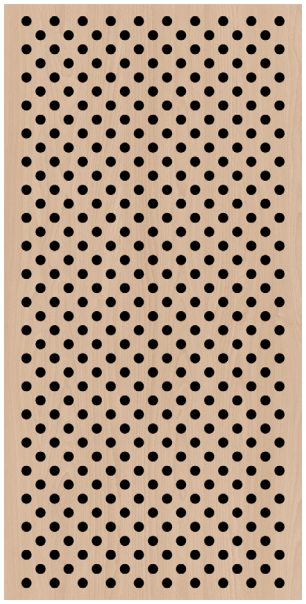
Hole Diameter	20mm
Diagonal Spacing	50mm
Horizontal Spacing	70.71mm
Vertical Spacing	70.71mm
NRC Rating	0.85
Opening Area	12.11%

DH16



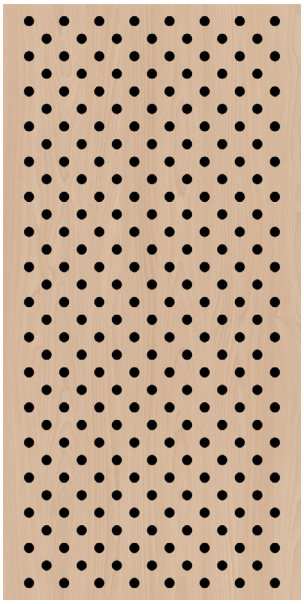
Hole Diameter	30mm
Diagonal Spacing	60mm
Horizontal Spacing	84.85mm
Vertical Spacing	84.85mm
NRC Rating	0.90
Opening Area	18.23%

DH17



Hole Diameter	40mm
Diagonal Spacing	80mm
Horizontal Spacing	113.14mm
Vertical Spacing	113.14mm
NRC Rating	0.85
Opening Area	17.02%

DH18



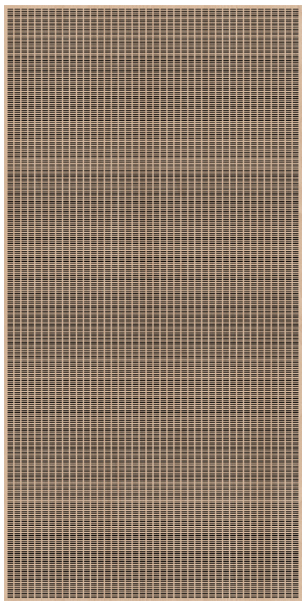
Hole Diameter	40mm
Diagonal Spacing	100mm
Horizontal Spacing	141.42mm
Vertical Spacing	141.42mm
NRC Rating	0.75
Opening Area	10.82%

Perforated - Slots

Elongated slots perforated through the panel in aligned rows, running either horizontally or vertically. Slot width, length, and spacing vary by pattern, giving a strong linear appearance and a high open area for acoustic absorption.

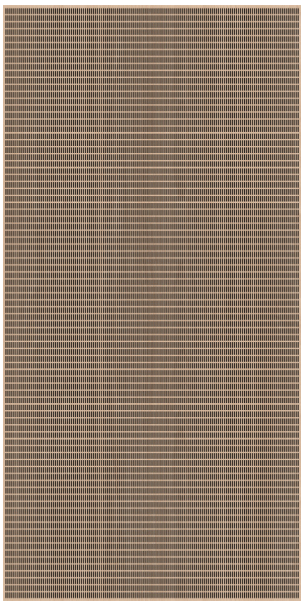
Machining Type	Perforated
Pattern Family	Slots

SL01



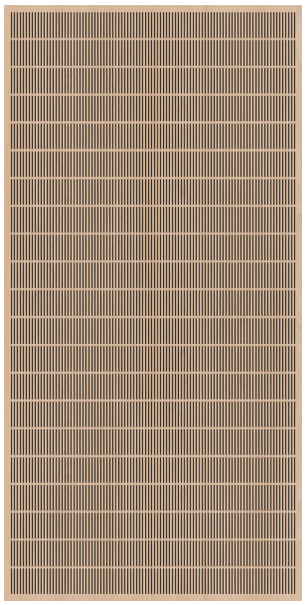
Perforation	3x20mm
Slot Direction	Horizontal
Horizontal Spacing	8mm
Vertical Spacing	8mm
NRC Rating	0.85
Opening Area	29.88%

SL02



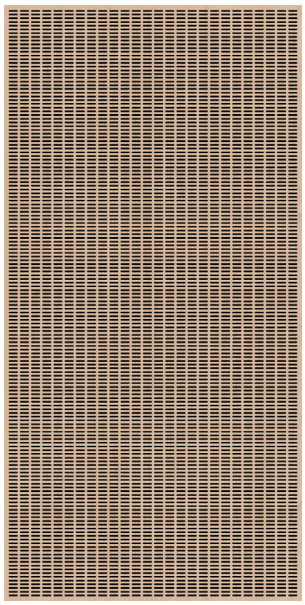
Perforation	3x20mm
Slot Direction	Vertical
Horizontal Spacing	8mm
Vertical Spacing	8mm
NRC Rating	0.85
Opening Area	30.73%

SL03



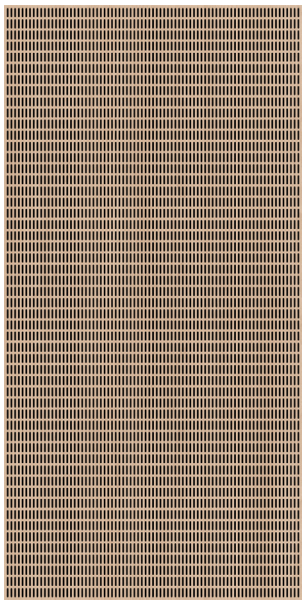
Perforation	3x100mm
Slot Direction	Vertical
Horizontal Spacing	9mm
Vertical Spacing	9mm
NRC Rating	0.90
Opening Area	30.73%

SL04



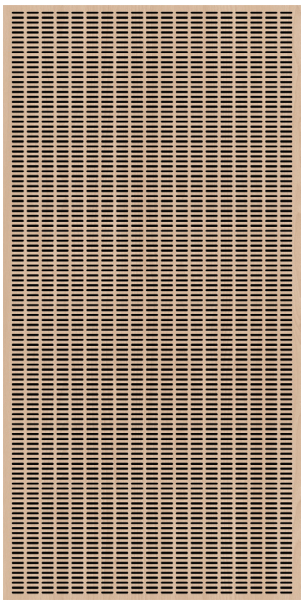
Perforation	6x30mm
Slot Direction	Horizontal
Horizontal Spacing	15mm
Vertical Spacing	15mm
NRC Rating	0.90
Opening Area	38.16%

SL05



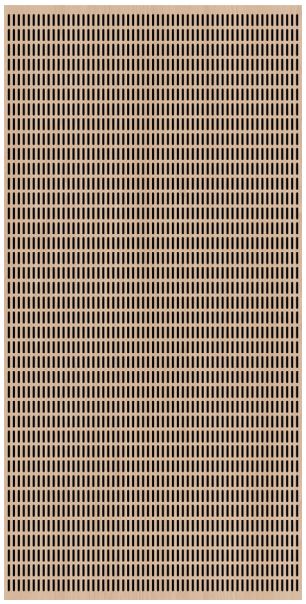
Perforation	6x30mm
Slot Direction	Vertical
Horizontal Spacing	15mm
Vertical Spacing	15mm
NRC Rating	0.90
Opening Area	31.40%

SL06



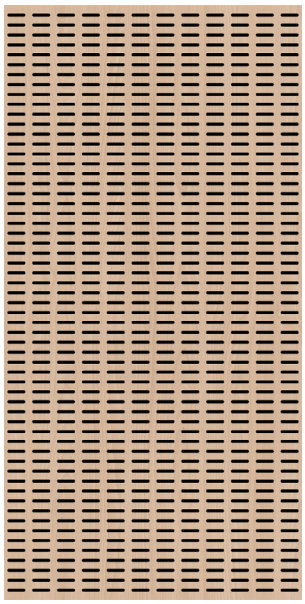
Perforation	8x40mm
Slot Direction	Horizontal
Horizontal Spacing	20mm
Vertical Spacing	20mm
NRC Rating	0.90
Opening Area	29.89%

SL07



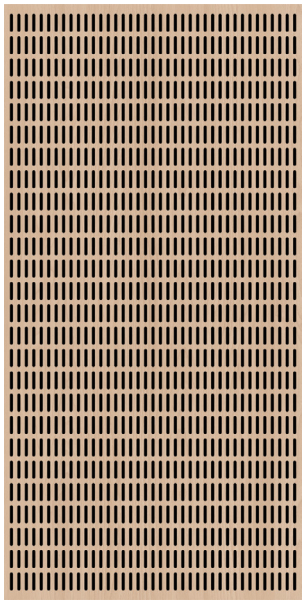
Perforation	8x40mm
Slot Direction	Vertical
Horizontal Spacing	20mm
Vertical Spacing	20mm
NRC Rating	0.90
Opening Area	30.68%

SL08



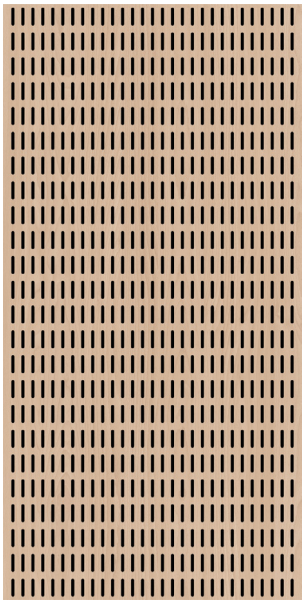
Perforation	12x60mm
Slot Direction	Horizontal
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.85
Opening Area	21.24%

SL09



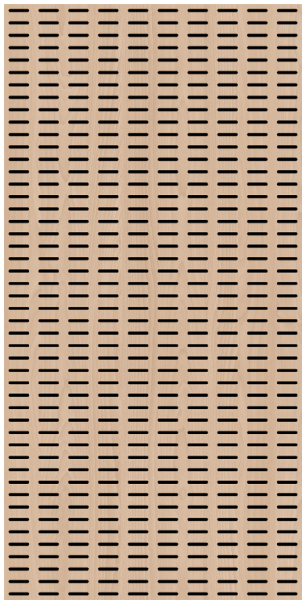
Perforation	12x60mm
Slot Direction	Vertical
Horizontal Spacing	30mm
Vertical Spacing	30mm
NRC Rating	0.90
Opening Area	30.42%

SL10



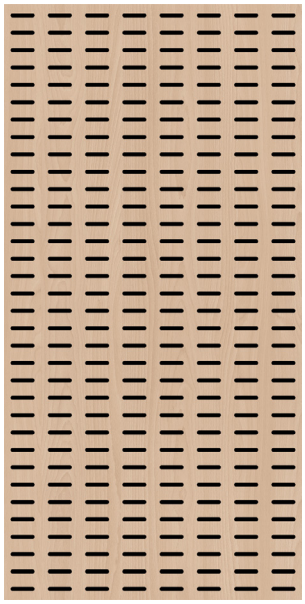
Perforation	12x60mm
Slot Direction	Vertical
Horizontal Spacing	40mm
Vertical Spacing	40mm
NRC Rating	0.85
Opening Area	20.89%

SL11



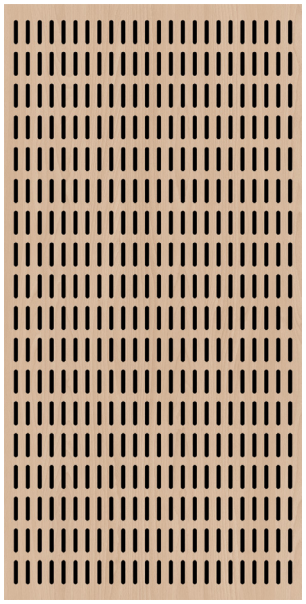
Perforation	12x70mm
Slot Direction	Horizontal
Horizontal Spacing	50mm
Vertical Spacing	50mm
NRC Rating	0.80
Opening Area	16.40%

SL12



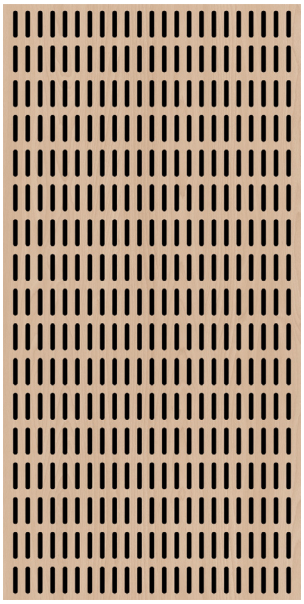
Perforation	12x80mm
Slot Direction	Horizontal
Horizontal Spacing	70mm
Vertical Spacing	70mm
NRC Rating	0.80
Opening Area	14.51%

SL13



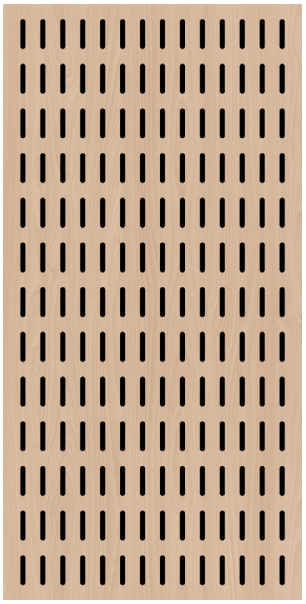
Perforation	12x80mm
Slot Direction	Vertical
Horizontal Spacing	48mm
Vertical Spacing	48mm
NRC Rating	0.90
Opening Area	23.04%

SL14



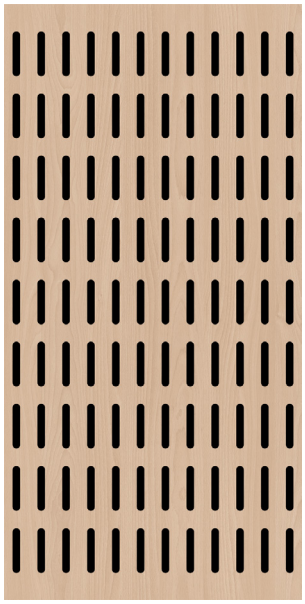
Perforation	18x90mm
Slot Direction	Vertical
Horizontal Spacing	50mm
Vertical Spacing	50mm
NRC Rating	0.90
Opening Area	26.41%

SL15



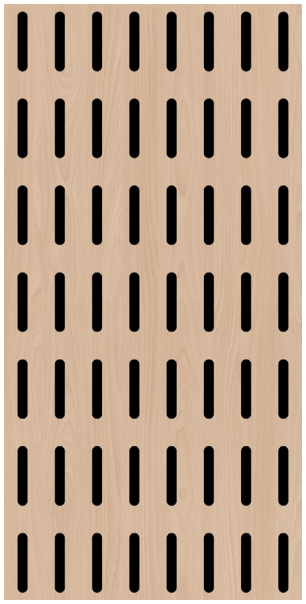
Perforation	20x100mm
Slot Direction	Vertical
Horizontal Spacing	80mm
Vertical Spacing	80mm
NRC Rating	0.80
Opening Area	15.17%

SL16



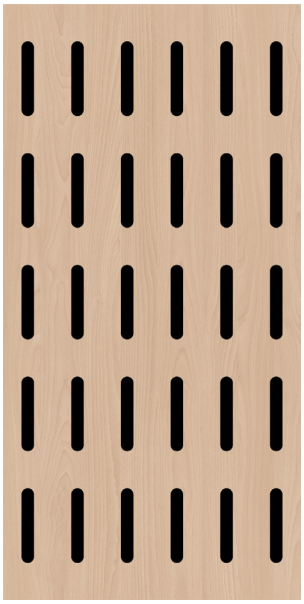
Perforation	30x150mm
Slot Direction	Vertical
Horizontal Spacing	100mm
Vertical Spacing	100mm
NRC Rating	0.85
Opening Area	20.25%

SL17



Perforation	40x200mm
Slot Direction	Vertical
Horizontal Spacing	150mm
Vertical Spacing	150mm
NRC Rating	0.75
Opening Area	18.67%

SL18



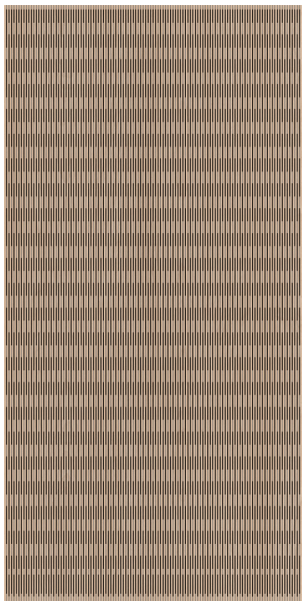
Perforation	50x250mm
Slot Direction	Vertical
Horizontal Spacing	200mm
Vertical Spacing	200mm
NRC Rating	0.65
Opening Area	15.62%

Engraved + Perforated - Perforated Rib

Parallel grooves engraved into the panel face, with staggered slots perforated through the base of each groove. From the front it reads a clean ribbed surface, while the slots provide the open area needed for acoustic absorption.

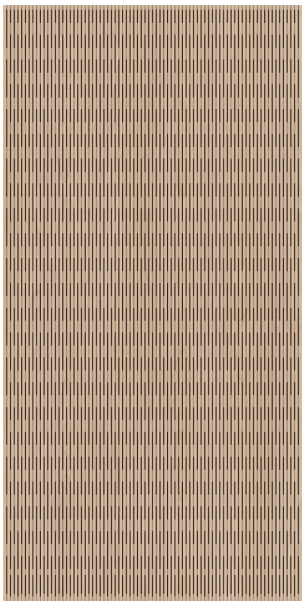
Machining Type	Engraved + Perforated
Pattern Family	Perforated Rib

PR01



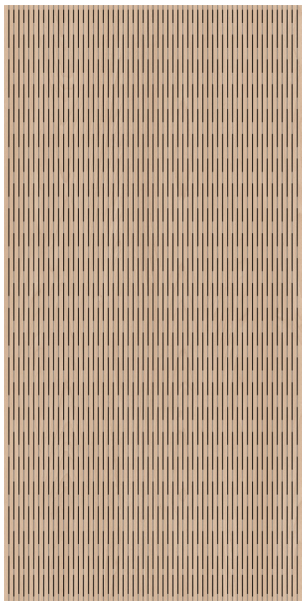
Grooves	3x3mm
Groove Centres	10mm
Slots	3x150mm
Slot Spacing	50mm
NRC Rating	0.85
Opening Area	23.23%

PR02



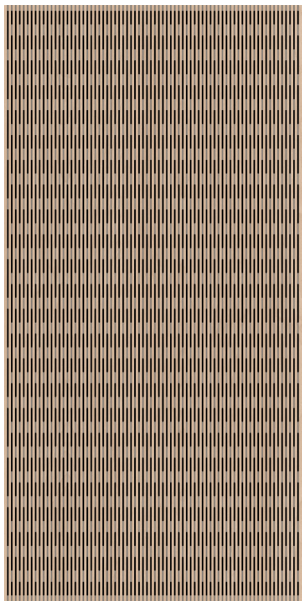
Grooves	3x3mm
Groove Centres	15mm
Slots	3x150mm
Slot Spacing	50mm
NRC Rating	0.80
Opening Area	15.42%

PR03



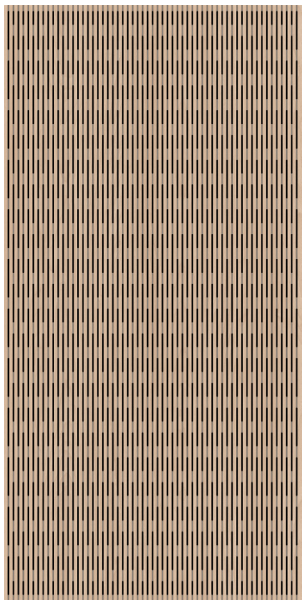
Grooves	3x3mm
Groove Centres	20mm
Slots	3x150mm
Slot Spacing	50mm
NRC Rating	0.75
Opening Area	11.52%

PR04



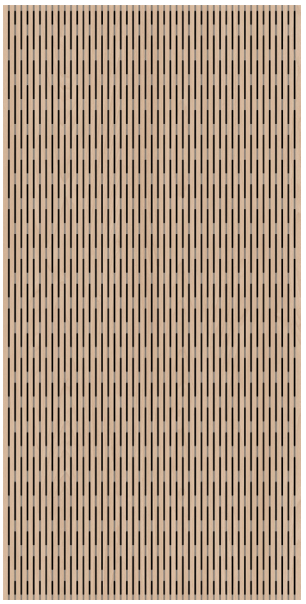
Grooves	6x3mm
Groove Centres	16mm
Slots	6x150mm
Slot Spacing	50mm
NRC Rating	0.90
Opening Area	30.06%

PR05



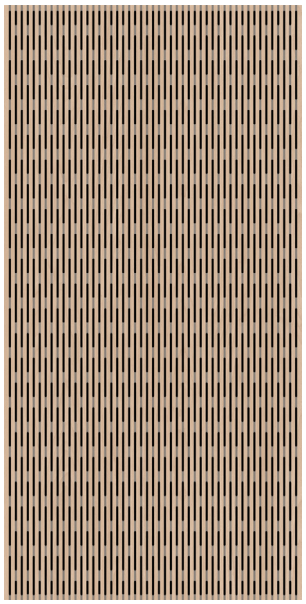
Grooves	6x3mm
Groove Centres	20mm
Slots	6x150mm
Slot Spacing	50mm
NRC Rating	0.85
Opening Area	23.93%

PR06



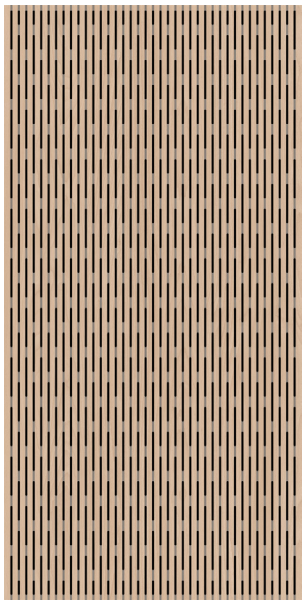
Grooves	6x3mm
Groove Centres	25mm
Slots	6x150mm
Slot Spacing	50mm
NRC Rating	0.85
Opening Area	19.06%

PR07



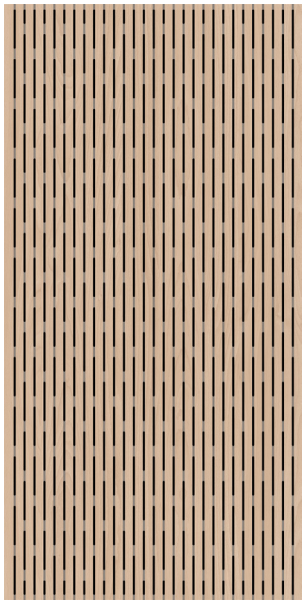
Grooves	8x3mm
Groove Centres	24mm
Slots	8x150mm
Slot Spacing	50mm
NRC Rating	0.90
Opening Area	56.96%

PR08



Grooves	8x3mm
Groove Centres	30mm
Slots	8x150mm
Slot Spacing	50mm
NRC Rating	0.85
Opening Area	45.29%

PR09



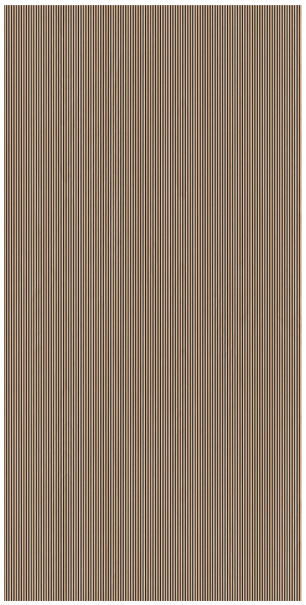
Grooves	8x3mm
Groove Centres	40mm
Slots	8x150mm
Slot Spacing	50mm
NRC Rating	0.80
Opening Area	33.62%

Engraved - Engraved Rib

Parallel grooves engraved into the panel surface only, with no perforation through the panel. Provides the ribbed, linear look of the perforated version where acoustic absorption is not required, or where the panel face must remain solid.

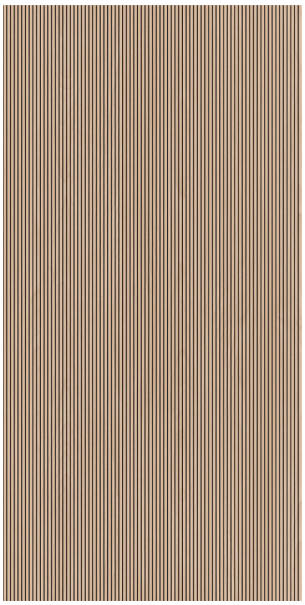
Machining Type	Engraved
Pattern Family	Engraved Rib

ER01



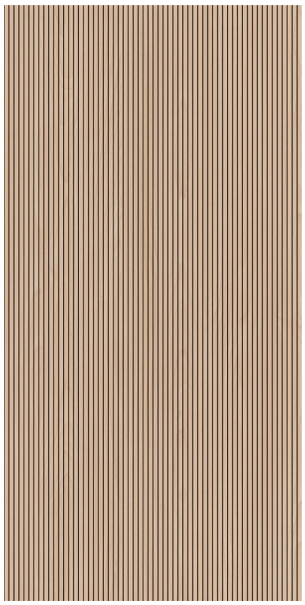
Grooves	3x3mm
Groove Centres	10mm
Surface Area	2.88m²

ER02



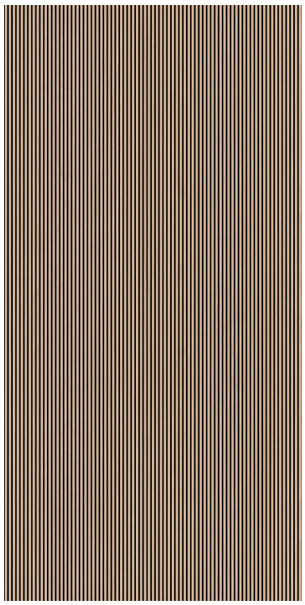
Grooves	3x3mm
Groove Centres	15mm
Surface Area	2.88m²

ER03



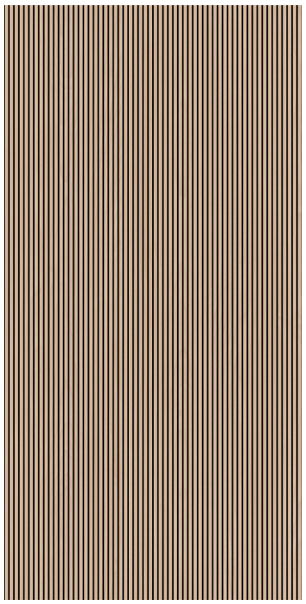
Grooves	3x3mm
Groove Centres	20mm
Surface Area	2.88m²

ER04



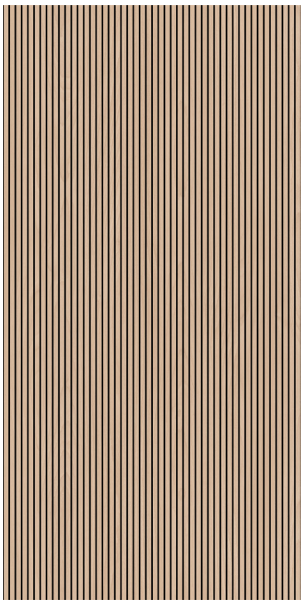
Grooves	6x3mm
Groove Centres	16mm
Surface Area	2.88m²

ER05



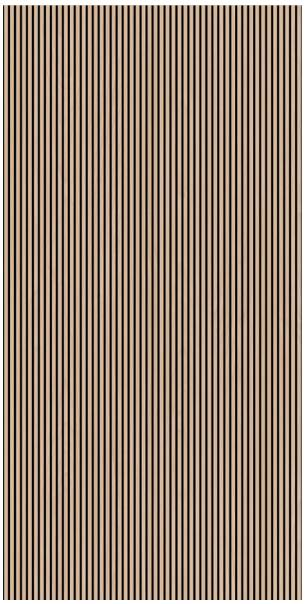
Grooves	6x3mm
Groove Centres	20mm
Surface Area	2.88m²

ER06



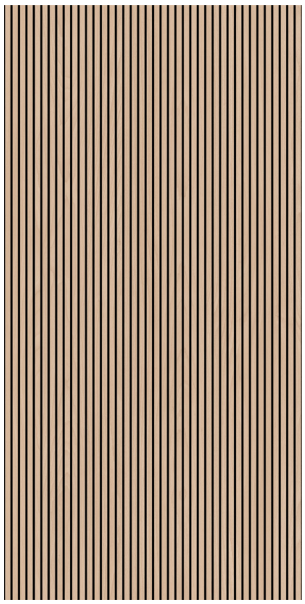
Grooves	6x3mm
Groove Centres	25mm
Surface Area	2.88m²

ER07



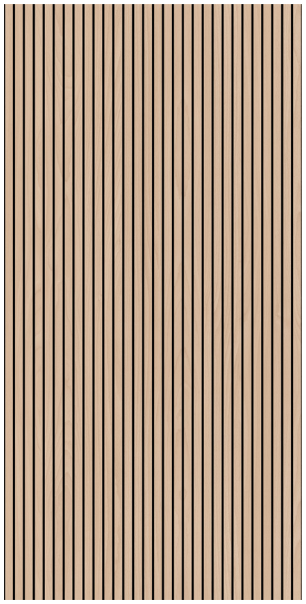
Grooves	8x3mm
Groove Centres	24mm
Surface Area	2.88m²

ER08



Grooves	8x3mm
Groove Centres	30mm
Surface Area	2.88m²

ER09



Grooves	8x3mm
Groove Centres	40mm
Surface Area	2.88m²

Featurecraft
1 Heard Place, Longlands,
Hastings 4175
(NZ) 06 842 0004
(AU) 1800 958 382

featurecraft.com
sales@featurecraft.com
@featurecraft_

masterspec


Featurecraft®