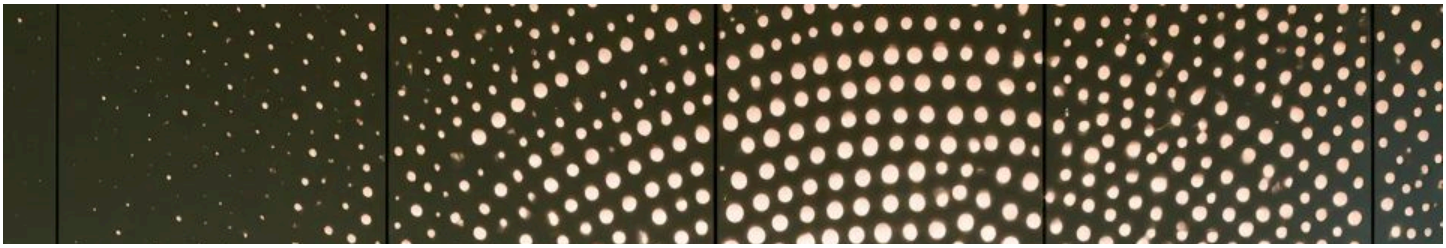
Custom Perforated Aluminum

Product Data Sheet

Painted aluminum wall panels, perforated with a custom image or pattern that runs continuously across every panel joint. Open, acoustic or backlit. Designed, rendered and priced online in the MakeReal configurator.



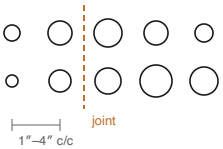
Backlit perforated wall, radiating ring pattern.

PANELS & LAYOUT

Material	Aluminum plate, 3/16″ (0.1875″) thick
Alloy / temper	Confirmed in shop drawings
Max panel size	4′ × 10′
Layout	Each wall is split into equal panels, cut to size at the factory (e.g. an 11′ wide wall = three 3′-8″ panels)
Wall size	Up to 120′ wide × 40′ tall in the configurator
Panel form	Flat panels
Joint width	Confirmed in shop drawings
Panel weight	Varies with open area; listed in shop drawings
Use	Interior walls; exterior screens and facades (see backer and lighting limits)

PERFORATION

Hole shape	Round
Hole diameter	1/4″ to 1-1/2″; size varies with the image
Hole spacing	1″ to 4″ center to center; 2″ default
Metal between holes	3/16″ minimum
Panel joints	Fall between hole rows; pattern continuous across panels
Open area	Varies by design; shown live in the configurator



Holes sit on a straight grid of rows and columns. Each hole's size follows the image, from 1/4″ to 1-1/2″, always leaving at least 3/16″ of metal. Panel joints land midway between rows, so the pattern reads as one surface.

FINISH

Finish	Factory-painted aluminum; paint included
Paint system	Confirmed in shop drawings
Exterior coating	Specified per project

15 standard colors

Midnight · Graphite · Black · Bronze · Champagne
Natural · White · Red · Green · Pink
Beige · Brown · Yellow · Purple · Blue

Physical color samples on request. Ask us about custom colors.

BACKER OPTIONS

None (open)	See-through screens and facades. Interior or exterior. Unlit walls.
Acoustic felt	Felt behind the perforations absorbs sound. Unlit walls only; interior only.
Diffusion backer	White polycarbonate sheet that spreads the LED light into an even glow. Required with backlighting.

Felt colors in the configurator

White · Gray · Black · Beige · Blue · Red

COMPATIBILITY

Open, unlit	Interior and exterior
Acoustic felt	Interior, unlit walls only
Backlit	White polycarbonate diffusion backer required; never combined with felt
Backlit, exterior	Specified per project

PERFORMANCE

Fire	Class A (metal panels)
Fire, assembly with backer	Confirmed per project
Acoustics (NRC)	Provided per project
Exterior wind load	Designed per project

INSTALLATION

- Installed by the project's general contractor, subcontractor or millwork installer, from MakeReal shop drawings.
- Panels stand off the wall. **3″ standoff recommended**; final depth set in shop drawings
- Attachment: wall → substructure → standoff → panel. Attachment system and hardware shown in shop drawings
- Equal-width panels mean joints rarely land on studs; plan continuous blocking or a substructure layer behind the wall.
- Separate aluminum from steel and concrete with isolators or coated fasteners.
- Backlit walls need an accessible location for drivers and a power supply by the project's licensed electrician.

INCLUDED

- Perforated 3/16″ aluminum panels, cut to size and painted
- Selected backer: acoustic felt or polycarbonate diffusion backer
- Selected backlighting, with controls
- Shop drawings for your approval

NOT INCLUDED

- Mounting hardware and clips (quoted per project)
- Installation
- Blocking, framing and substructure
- Electrical supply to the wall
- Freight and taxes

LIGHTING OPTIONS

None	Unlit wall; can be front-lit by the project's own fixtures
White	Static white backlight; warm to cool white
RGB	Backlight in a chosen color
Programmable RGB	Scenes, color changes and animation
Controls	Included with every backlit wall
Exterior lighting	Specified per project

LEAD TIME

Typically 8–10 weeks.

PRICING

Live pricing in the configurator, updated as you change size, backer and lighting. Your project quote follows.

WARRANTY

Yes. Warranty terms are shared with your project.

SAMPLES

Physical samples of metal, paint and backers on request. For backlit walls, we recommend a lit mockup to see the glow.

CONFIGURATOR DOWNLOADS

- Spec sheet for the saved design
- Panel layout drawing with panel sizes
- Rendering and presentation board

HOW TO ORDER / NEXT STEPS

01
Design
Upload an image or pick a pattern in the configurator. Set wall size, hole size, spacing, color, backer and lighting.

02
Download
Save the design and download the spec sheet and panel layout for your drawings and project team.

03
Talk to MakeReal
Use "Talk with MakeReal" in the studio to request a sample, a shop visit or a quote.

make-real.ai Design, price and download in the MakeReal configurator