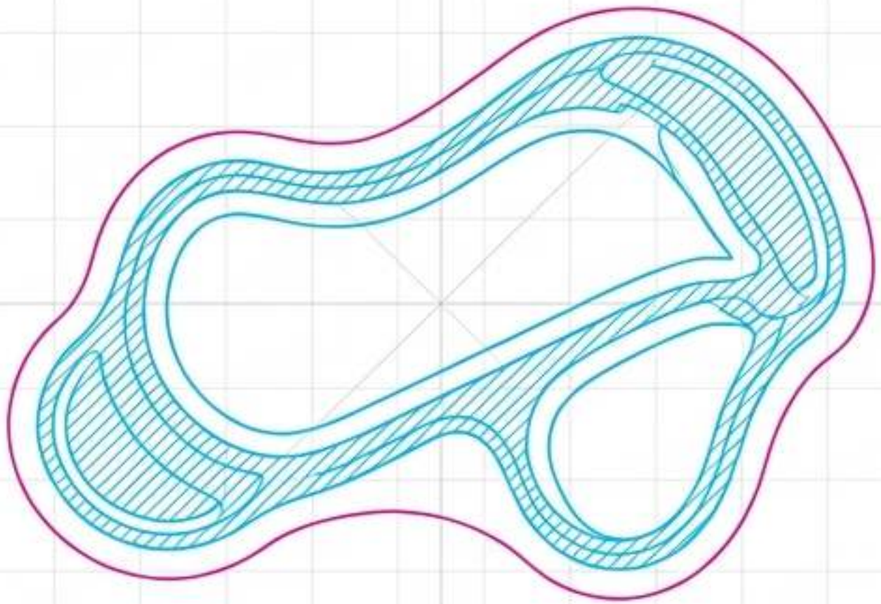
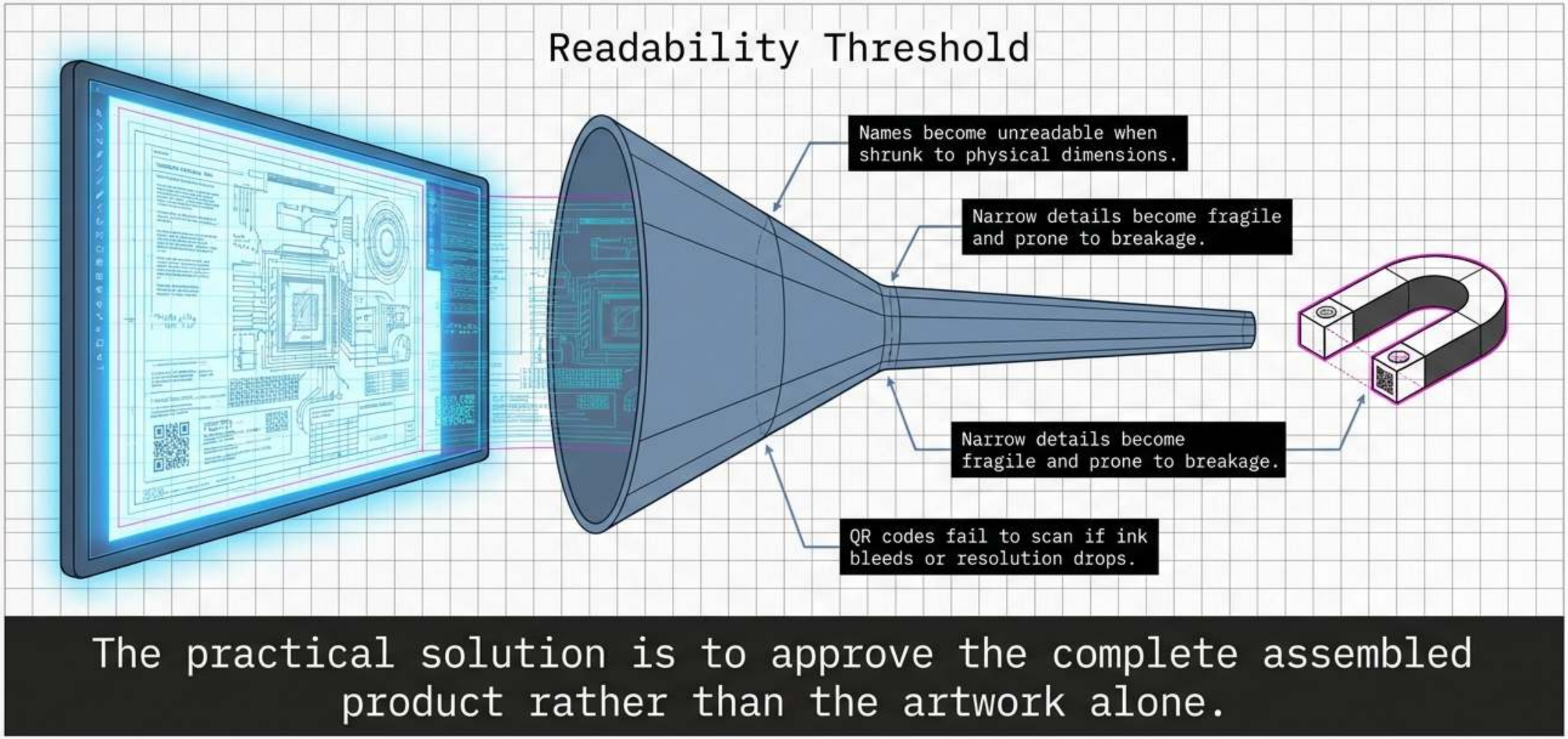
Specification Blueprint for Custom Acrylic Magnets



SKU:	ZPCM0001
Format:	Custom UV-Printed, Laser-Cut Acrylic
Scope:	Buyer Guidance, Procurement Mechanics, and Sample Verification.

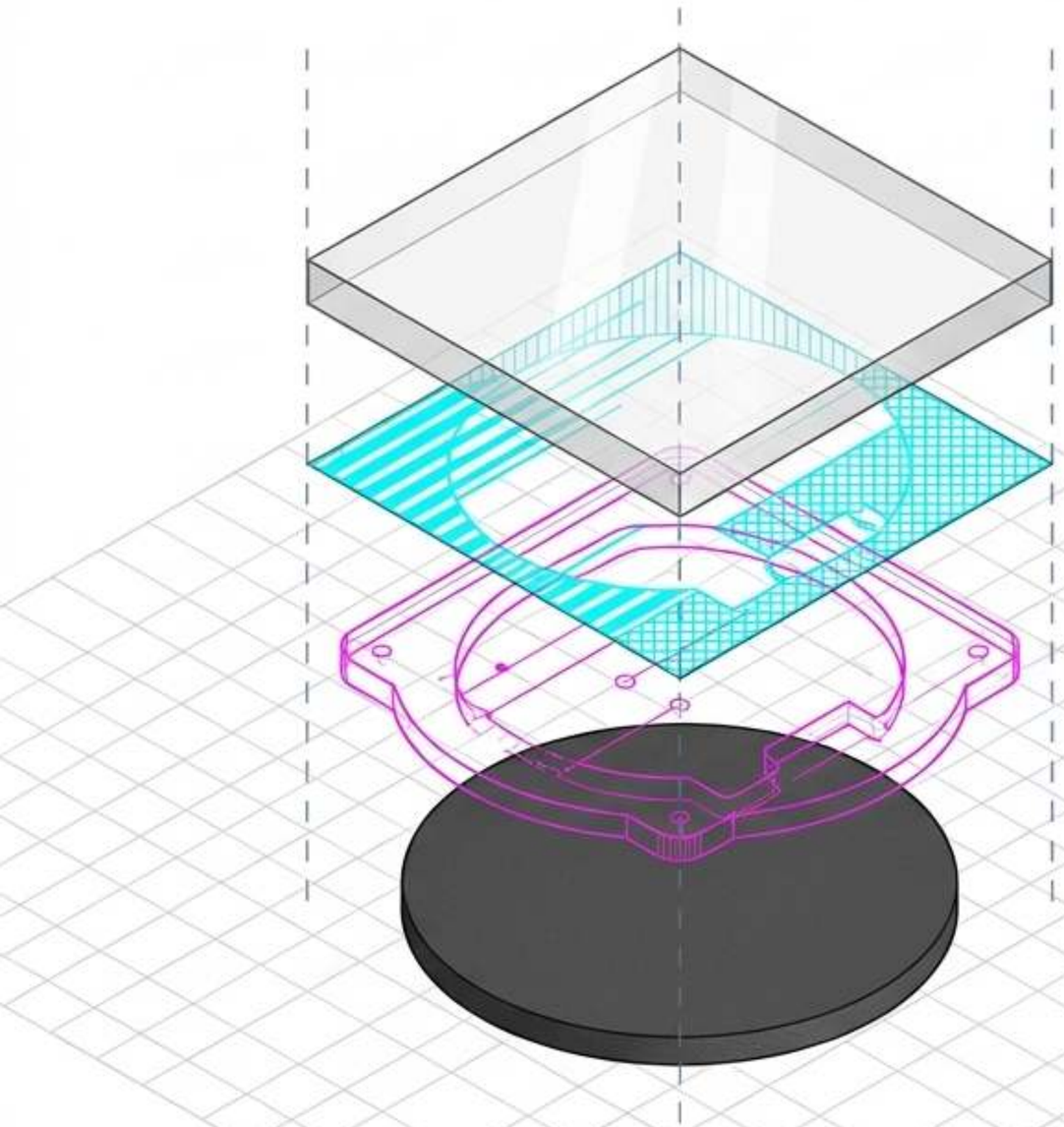
ZIGPAC

Digital designs fail without physical verification.



The practical solution is to approve the complete assembled product rather than the artwork alone.

Deconstructing the custom acrylic assembly



Layer 1 (Acrylic Face): Dictates the rigid physical silhouette and clear areas. Do not assume transparency means the image is enclosed.

Layer 2 (UV Printed Artwork): Supplies visual detail. Can utilize white underprint for opacity.

Layer 3 (Laser-Cut Outline): The specific contour. Distinct from the printed image; requires custom geometry.

Layer 4 (Magnetic Backing): Dictates attachment integrity and rear surface interaction.

Position the format against your purchasing priorities.

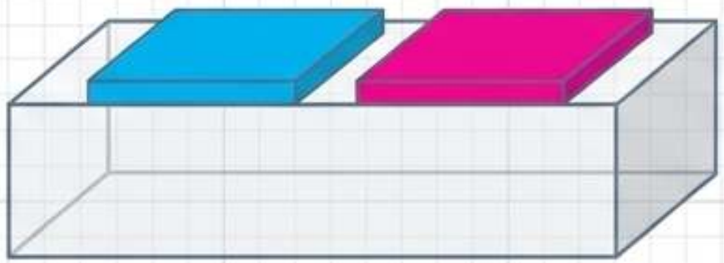
The Format Alternatives Matrix

	Design Direction	Purchasing Tradeoffs
UV-Printed Acrylic (ZPCM0001)	Printed artwork with rigid custom silhouette.	Edge finish, transparency, backing balance.
Flexible Magnetic Sheet	Thin, bendable printed format.	Thickness, edge behavior, print protection.
Molded Soft PVC	Raised shapes and tactile character designs.	Tooling, artwork translation, production schedule.
Resin/Domed Construction	Rounded surface, dimensional decorative effect.	Added weight, curing requirements.
Metal, Wood, or Glass	Material-led appearance distinct from acrylic.	Finish, moisture/breakage concerns.

MATERIAL CHOICE ALONE DOES NOT ESTABLISH MAGNETIC STRENGTH OR SAFETY. COMPARE ACTUAL QUOTATIONS AT IDENTICAL FINISHED SIZES.

Establish print placement and opacity requirements.

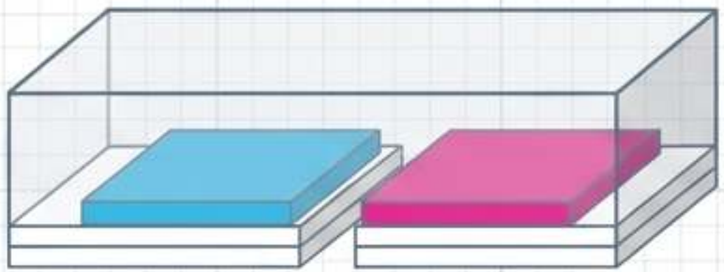
The Ink Placement Schematic



Surface Printing:
Ink sits on top.
Requires protection evaluation.



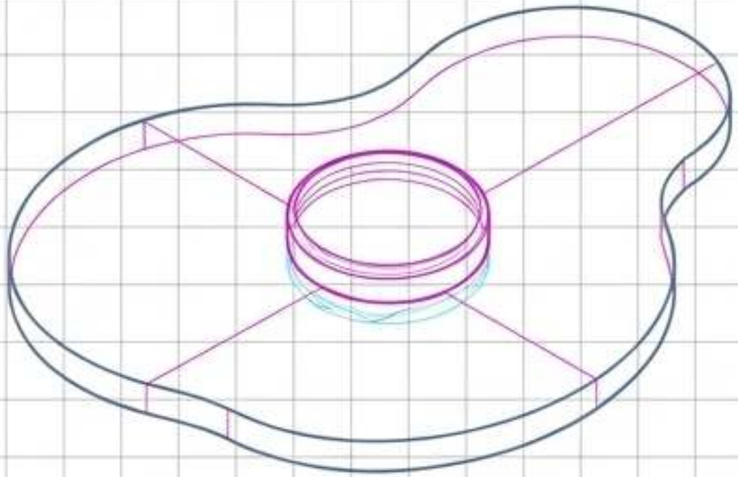
Reverse Printing:
Ink sits on the back.
Must account for backing overlap.



White Underprint:
A dedicated white layer beneath color to support opaque areas, while leaving selected areas intentionally transparent.

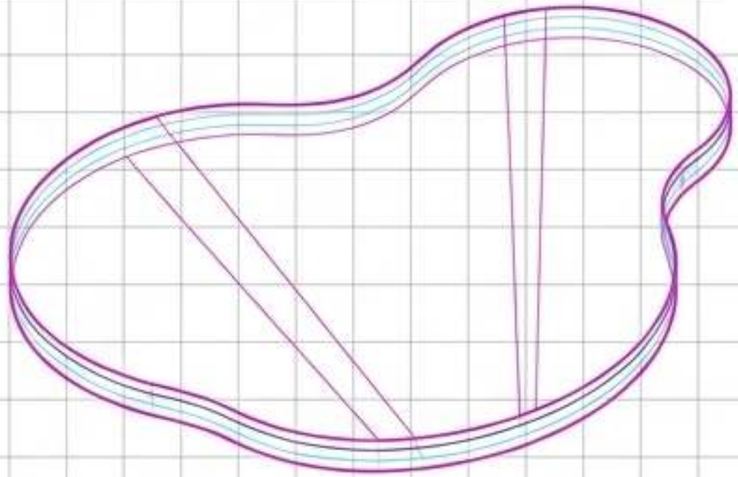
The digital proof must distinguish clear areas from opaque areas instead of leaving the printer to interpret a flattened image.

Compare backing constructions as complete assemblies.



Disc-Style Backing

1	What to specify: Material, dimensions, position, attachment method.
2	Sample must establish: Stability, attachment integrity, rear artwork obstruction.

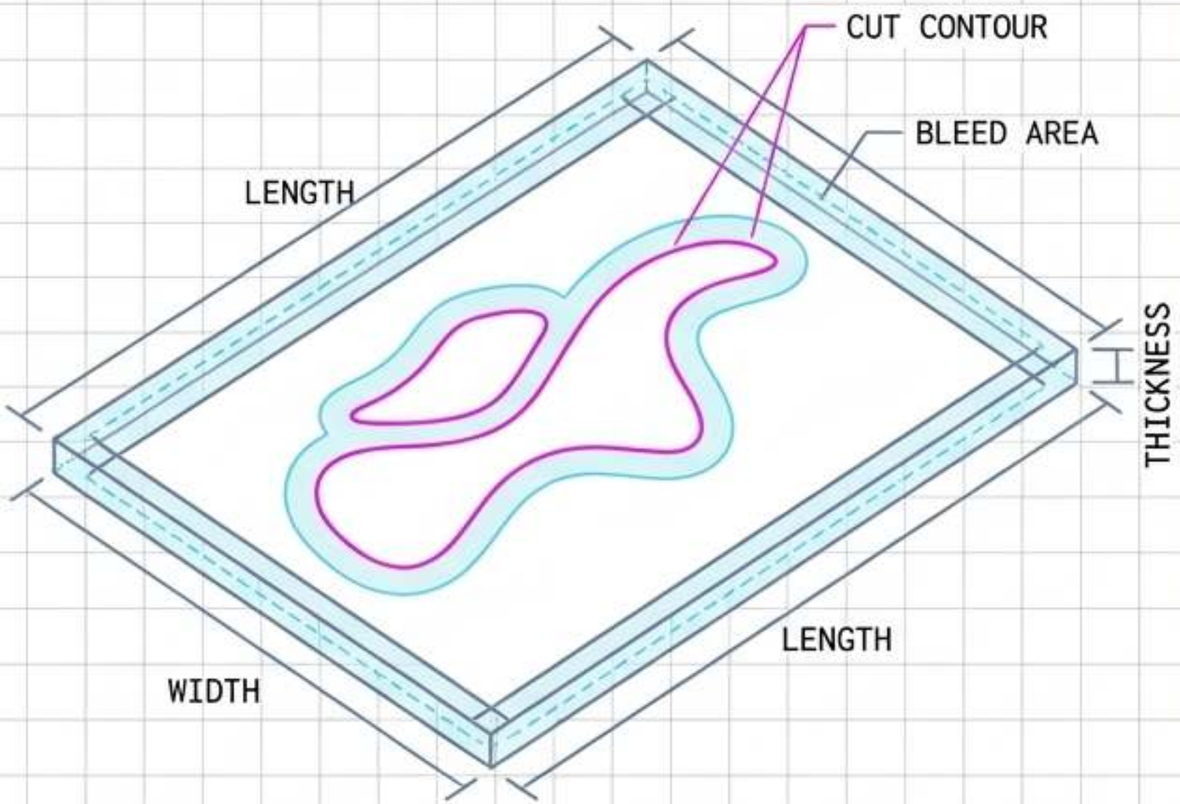


Sheet-Style Backing

1	What to specify: Coverage, thickness, contour, attachment.
2	Sample must establish: Flat contact, edge adhesion, assembled performance.

Neither a magnetic grade nor backing thickness alone establishes usable holding performance. Evaluate the complete assembly.

Prepare artwork files for manufacturing output.



FORMAT

Editable vector artwork for logos/cuts.

Original high-resolution images for photos (minimum 300 DPI at requested size).

GEOMETRY

Inspect outer dimensions, internal openings, edge clearance, and narrow projections.

LAYOUT

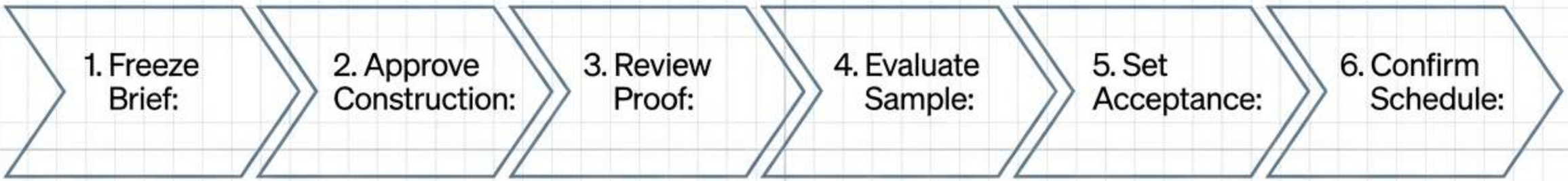
Distinguish print image, cut contour, opaque areas, and intentional transparency. Outline fonts and supply original color references.

ASSEMBLY

Map backing position against any reverse artwork.

Enlarging a low-resolution image does not restore missing detail. Screen previews are not physical evidence of finished color.

Navigate the production approval framework.



1. Freeze Brief: Record intended use, dimensions, destination, packaging, arrival date.

2. Approve Construction: Confirm acrylic face, print arrangement, backing, attachment.

3. Review Proof: Resolve text, crop, contour, transparency before sampling.

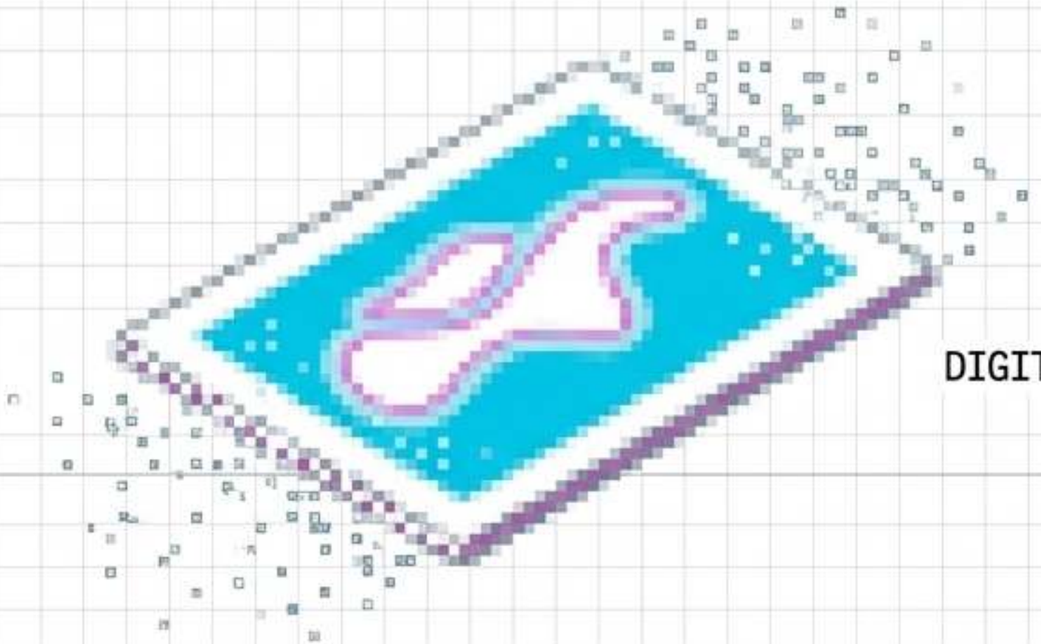
4. Evaluate Sample: Review actual print, edges, magnetic function, and packaging (not just an unassembled face).

5. Set Acceptance: Agree how appearance, attachment, and performance will be assessed.

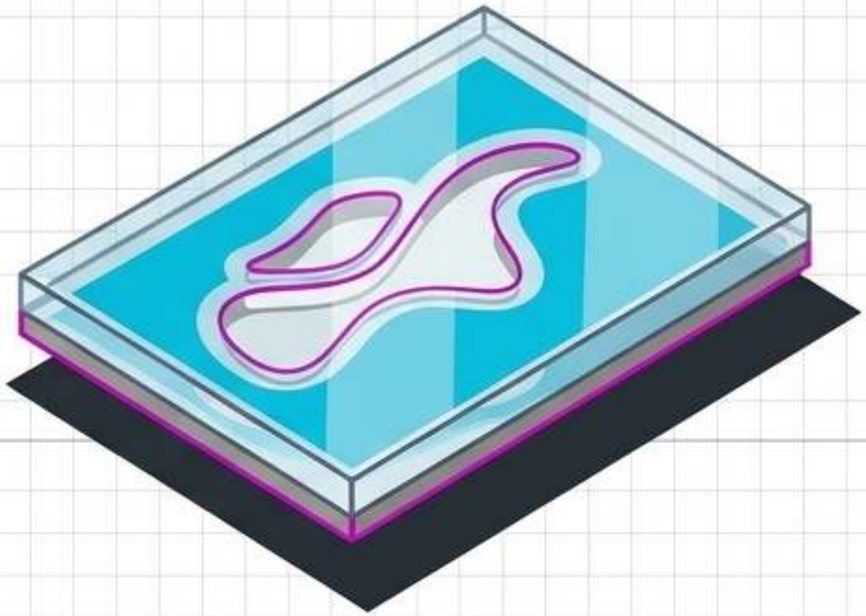
6. Confirm Schedule: Separate sample approval, production, dispatch, and transport milestones.

MANUFACTURING TUTORIALS ILLUSTRATE BASIC STAGES BUT DO NOT SERVE AS ACTUAL EQUIPMENT, CAPACITY, OR MANUFACTURING SPECIFICATIONS FOR THIS PRODUCT.

The physical sample is the manufacturing contract.



DIGITAL vs. PHYSICAL



Assumed Specifications.

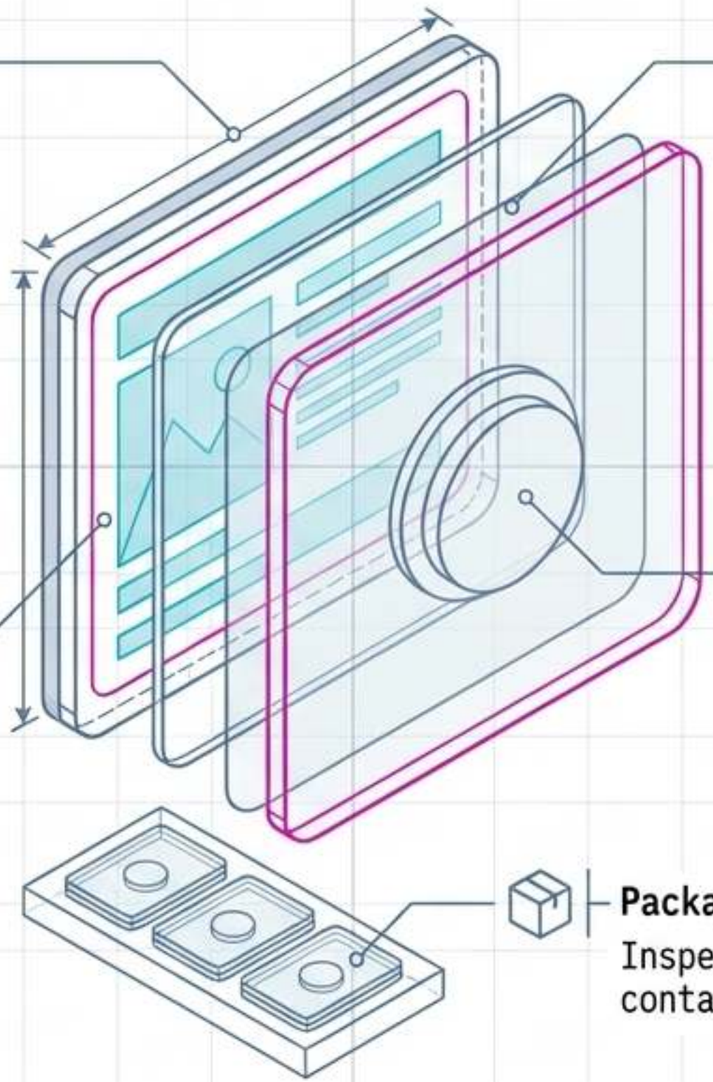
Verified Assembly.

Screen resolution, digital colors, and assumed thickness mean nothing until combined in physical space.
A lower quotation offers little clarity if it omits physical sampling or transport milestones.
Never accept a quote based solely on digital proofs.

Establish sample acceptance criteria.

Dimensions:
Measure finished outline and assembled thickness against agreed tolerances.

Surface & Edges:
Inspect under angled light. Distinguish protective film marks from underlying acrylic defects or cracked edges.



Readability:
Compare physical output with approved design; check image blur and unwanted white areas.

Magnetic Function:
Test the assembled piece on intended surface/orientation. Evaluate backing joint attachment.

Packaging:
Inspect for product-to-product contact and movement.

MANUFACTURING TUTORIALS ILLUSTRATE BASIC STAGES BUT DO NOT SERVE AS ACTUAL EQUIPMENT, CAPACITY, OR MANUFACTURING SPECIFICATIONS FOR THIS PRODUCT.

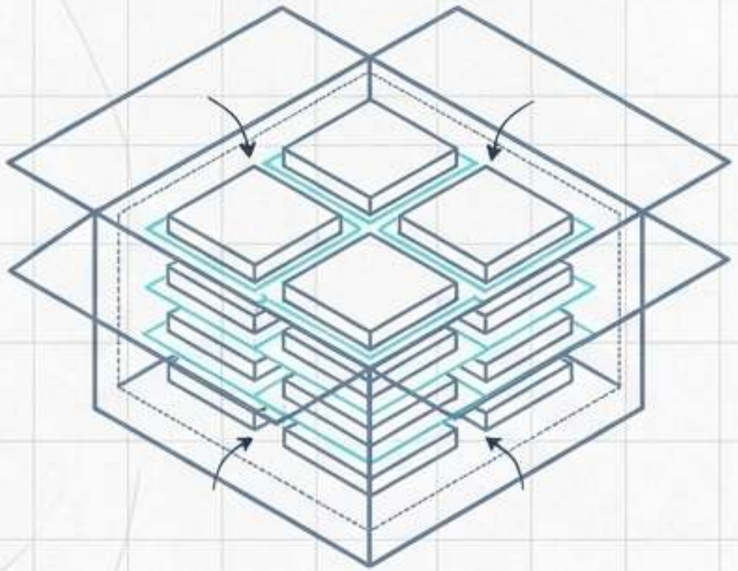
Verify claims against the exact physical construction.

Claims vs. Reality	
Holding Force	**Reality:** A competitor's paper-count claim cannot transfer to a different shape or assembly. Specify the actual paper, receiving surface, and position.
Magnet Safety	**Reality:** Loose magnets fitting the U.S. small-parts cylinder must have a flux index < 50 $kG^2\ mm^2$ (per CPSC). Applicability depends on product design and marketing, not just the presence of a magnet.
Recycled Content	**Reality:** General supplier declarations do not establish recycled content for your SKU. Request documentation for actual material supplied.
Durability & Waterproofing	**Reality:** Do not market as dishwasher-safe, waterproof, or vehicle-ready without evidence for the complete construction.

Separate broad material declarations from specific product claims.
No compliance certification is inherently established for ZPCM0001.

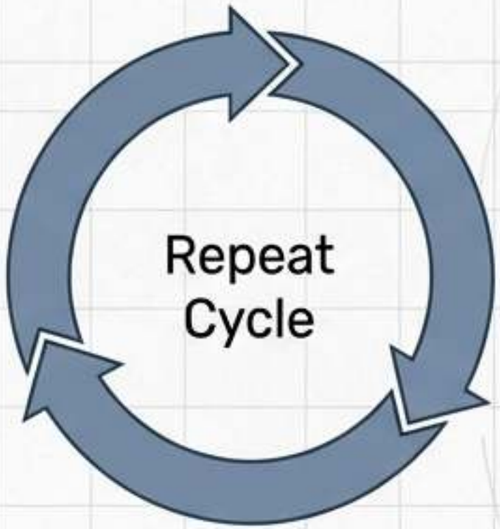
Protect the finish and secure supply chain continuity.

PACKAGING SPECIFICATIONS



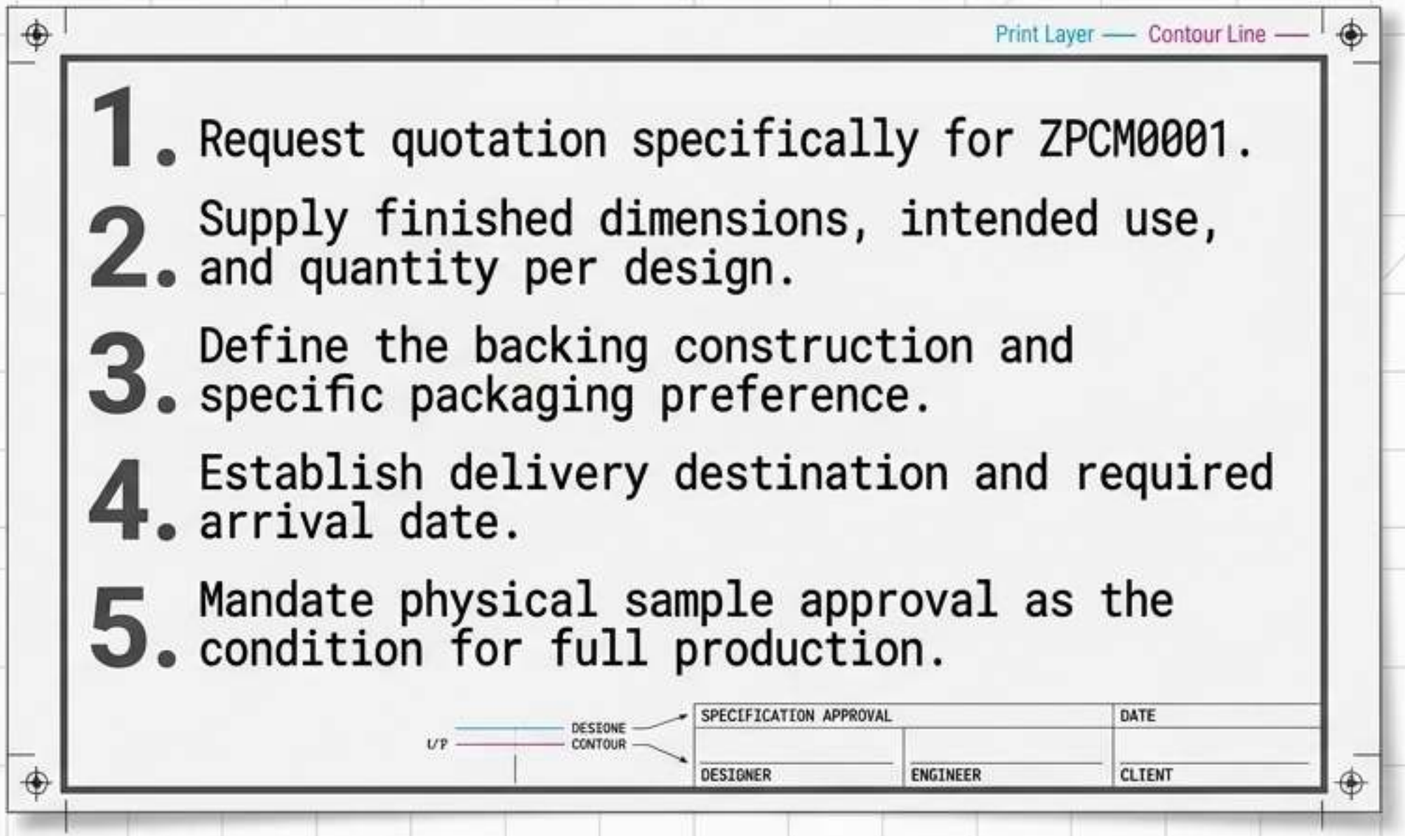
- Match packaging to post-arrival handling: Individual presentation units vs. simple distribution vs. retail backing cards.
- Specify adjacent face separation and restraint methods.
- Include clear removal instructions if protective film is supplied.
- Capture photographic evidence of outer cartons, internal packaging, and affected pieces to distinguish transport damage from production defects.

REPEAT ORDER LOGIC



- Retain the approved artwork version, construction details, packaging spec, and the physical reference sample.
- Reusing artwork alone does not guarantee a match. Confirm no materials or processes have changed before reordering.

Build the quotation around the finished product.



Base the quotation on a meaningful design purpose and an approved physical assembly, not untested promises or borrowed specifications.