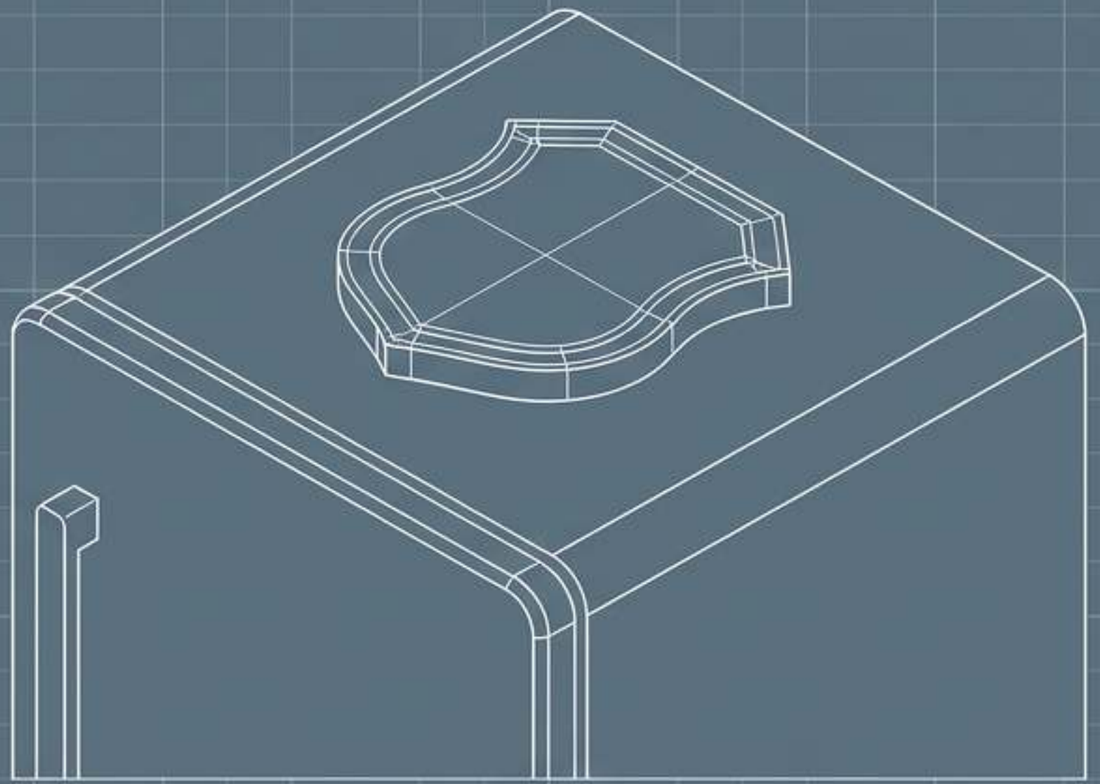
Configuration Model: ZPCM0005

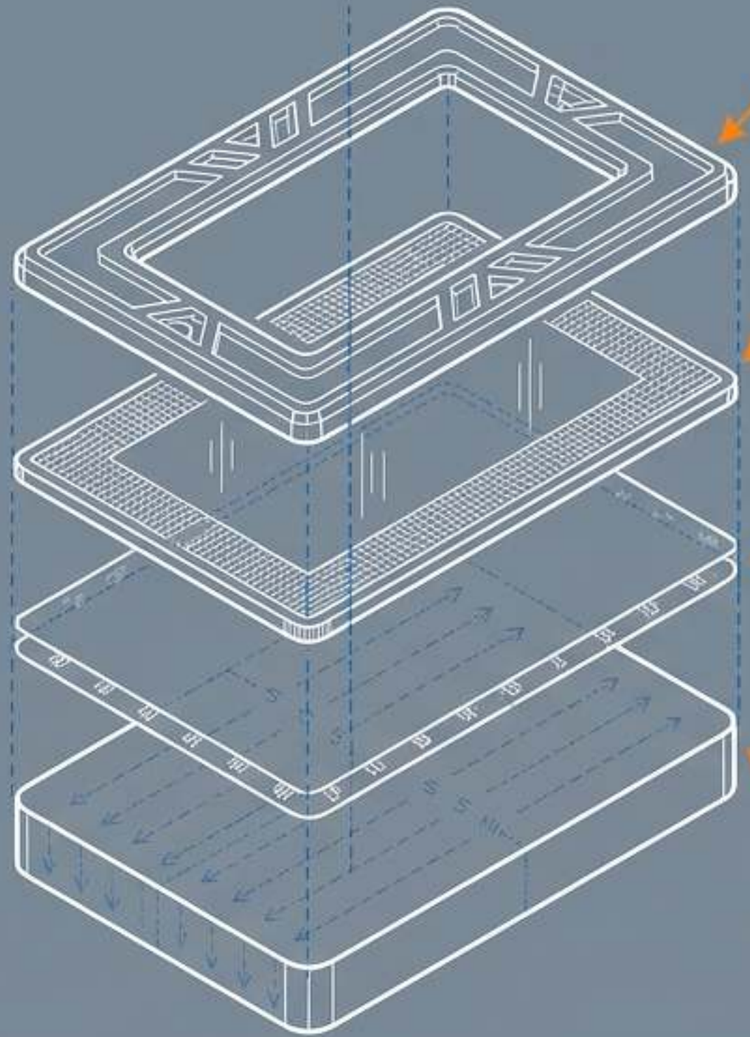
# Specification Over Assumption

## The Procurement Blueprint for Custom Die-Cast Zinc Alloy Magnets



A concept-to-carton manual for buyers, curators, and event organizers.

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## LAYER 1: THE DECORATIVE BODY

Die-cast zinc alloy. The physical carrier of shape and dimensional relief.

## LAYER 2: SURFACE FINISH & COLOR

Plated, antique, or painted treatments. Requires specific color referencing and edge-quality checks.

## LAYER 3: ADHESIVE/ATTACHMENT INTERFACE

The unseen bond. Adhesive compatibility and surface preparation dictate structural integrity.

## LAYER 4: MAGNETIC BACKING

The functional anchor. Material, dimensions, and protective contact layers determine holding performance on the target surface.

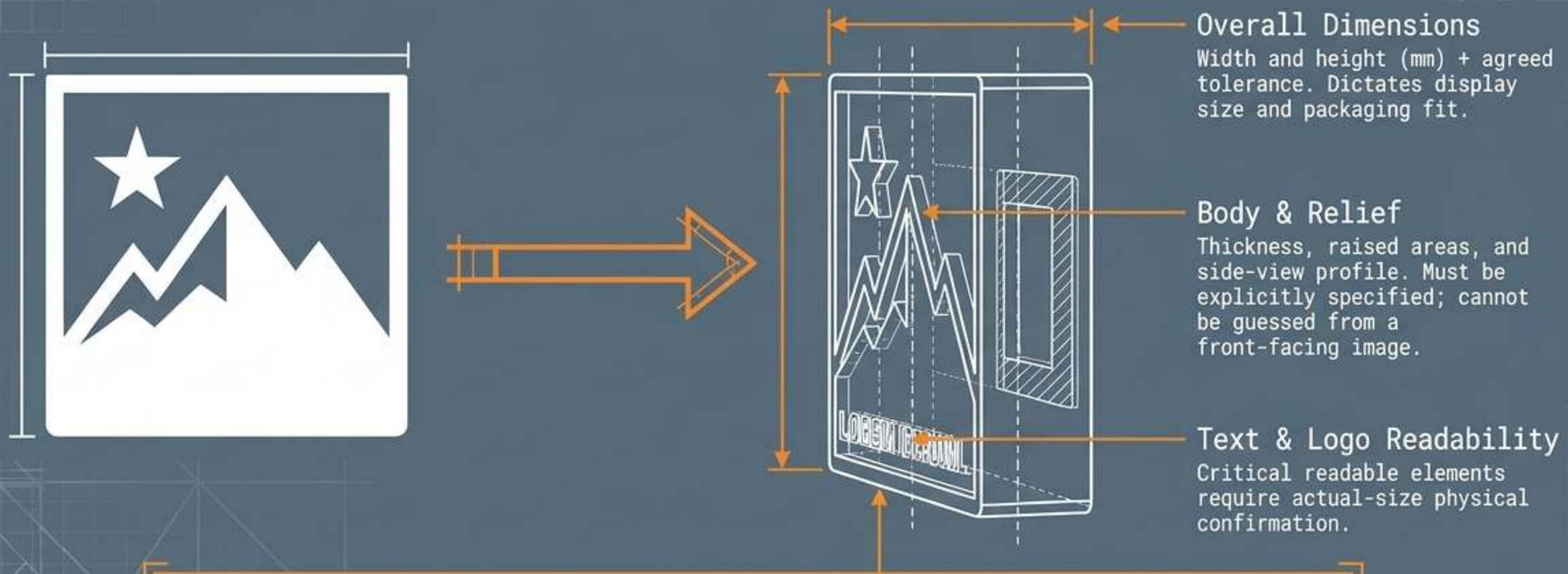
**CORE INSIGHT: A METAL APPEARANCE DOES NOT ESTABLISH MAGNETIC STRENGTH. A HEAVIER BODY IS NOT EVIDENCE OF BETTER HOLDING PERFORMANCE.**

# Aligning Construction with the Design Brief

| THE MATERIAL FIT MATRIX | | |
|---|---|---|
| Construction | Core Design Reason | Critical Buying Question |
| Die-cast Zinc Alloy (ZPCM0005) | Dimensional metal designs & souvenir concepts | Does the sampled appearance justify tooling, weight, and finish costs? |
| Flexible Printed Magnet | Flat promotional graphics or info-led designs | Is flexibility more important than relief? |
| Printed Button-Style | Artwork in a button construction | Does the available shape suit the design without a sculpted body? |
| Molded PVC | Soft-feel, shaped design direction | Does the material suit the intended audience presentation? |
| Resin, Acrylic, Glass | Sculptural, transparent, or natural appearance | What protection and maintenance does it require? |

# Extruding the Blueprint: 2D Files to 3D Specifications

## The Dimensional Translation Graphic



### Overall Dimensions

Width and height (mm) + agreed tolerance. Dictates display size and packaging fit.

### Body & Relief

Thickness, raised areas, and side-view profile. Must be explicitly specified; cannot be guessed from a front-facing image.

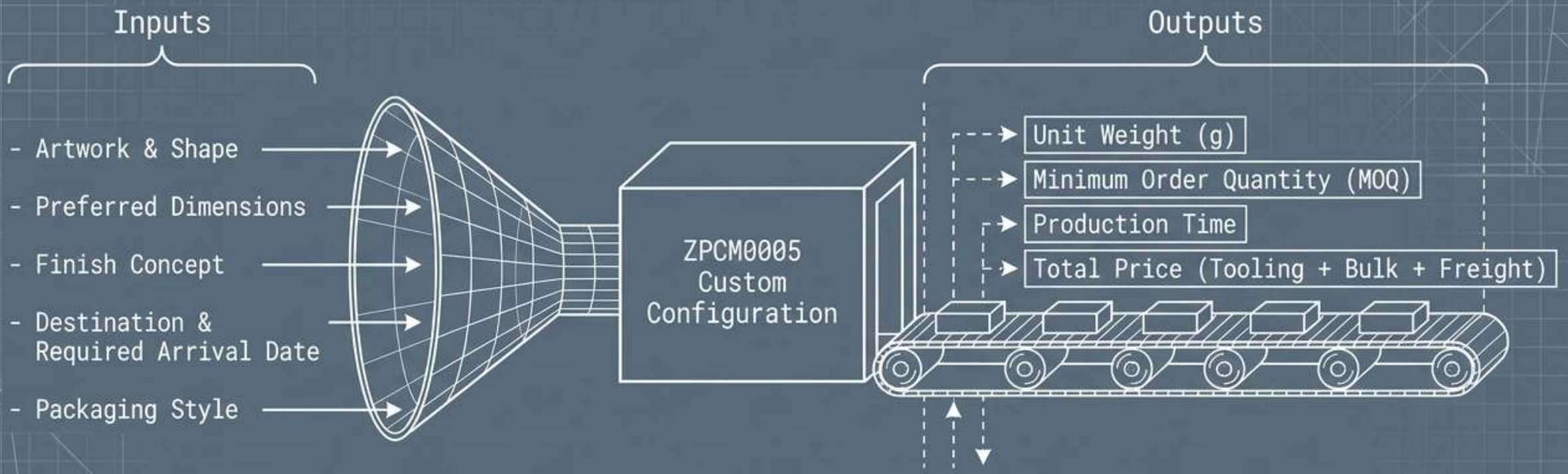
### Text & Logo Readability

Critical readable elements require actual-size physical confirmation.

**Takeaway:** Review designs at their intended physical size. Fine lettering that is clear on a monitor may fail on a cast metal surface.

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# The Quotation Engine: Specifying the Unverified




Commercial terms and physical capacities for ZPCM0005 are never standard. They remain strictly quotation, sampling, or testing items. Ask suppliers to separate unit cost from tooling, samples, packaging, and freight.

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# Preparing a Complete Artwork Package

## Shape
Show the intended outer contour completely separate from background imagery.

## Relief
Clearly distinguish raised metal, recessed areas, and elements meant only as printed decoration.

## Color
Provide named color references. Identify areas where physical sample approval is non-negotiable.

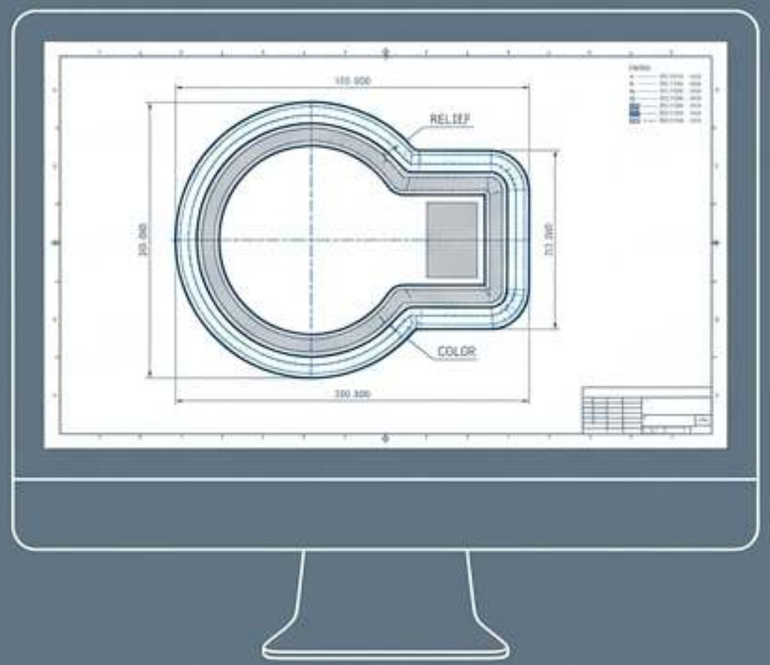



## Backing
Map the proposed magnet position and any requested rear factory markings.

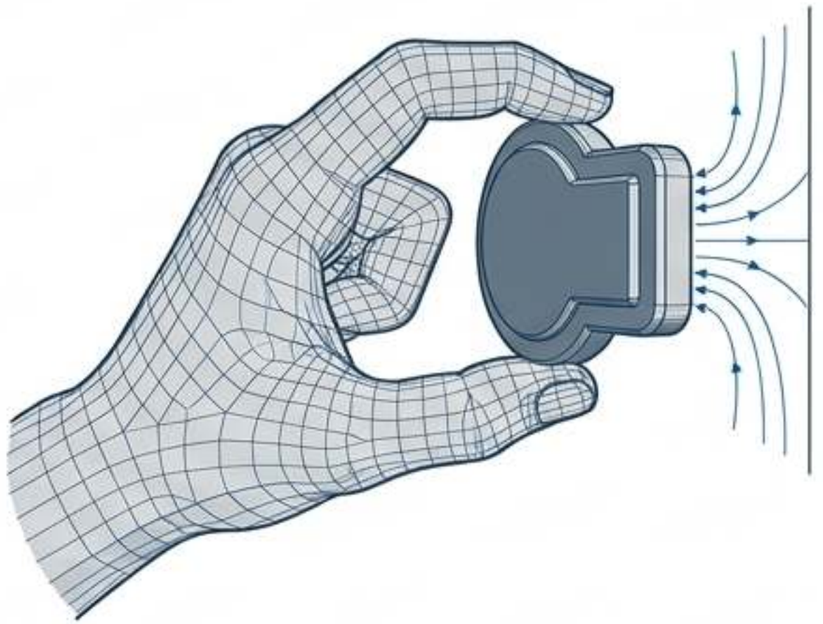
## Presentation
Include the desired retail card, sleeve, or transit box concept within the same initial inquiry.

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# Verification Divides: Digital Proof vs. Physical Sample

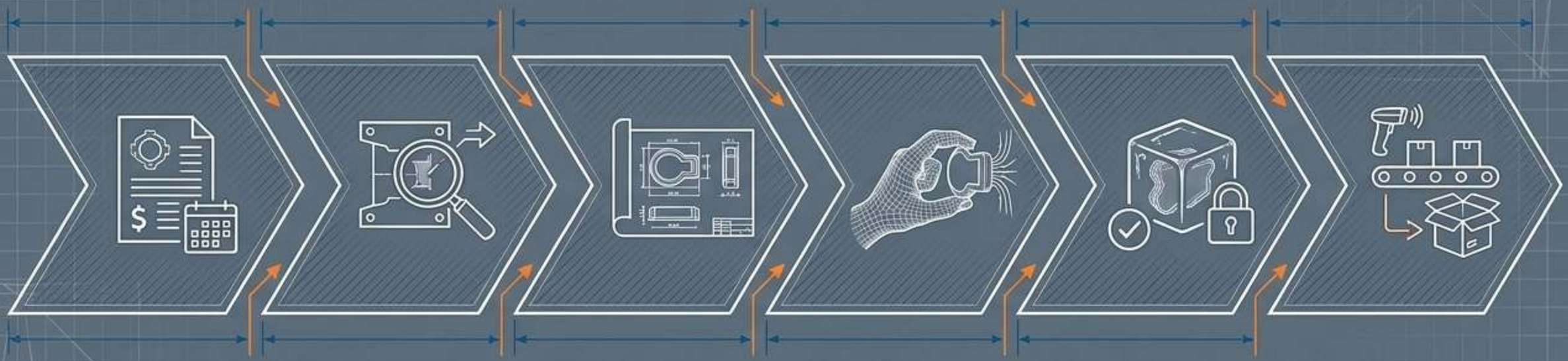



- **Purpose:** Confirms wording, overall layout, and general color targeting.
- **Limitation:** Cannot reveal an uncomfortable edge, a backing that separates, or structural flaws. Approving a proof does not silently approve the physical behavior.



- **Purpose:** Assesses metal texture, finish quality, edge smoothness, weight, and assembled magnetic behavior.
- **Mandate:** A physical sample is required to test actual assembly behavior before bulk production.

# The 6-Step Manufacturing Lifecycle



## Step 1: Define Quotation

Record quantity, design, dims, finish, backing, packaging, destination, and arrival date.

## Step 2: Review Manufacturability

Resolve artwork limits and identify tooling needs before authorizing mold work.

## Step 3: Approve Drawing

Confirm front, side, and rear construction, including critical readable dimensions.

## Step 4: Evaluate Sample

Review die-cast body, finish, magnetic assembly, and packaging concurrently.

## Step 5: Freeze Version

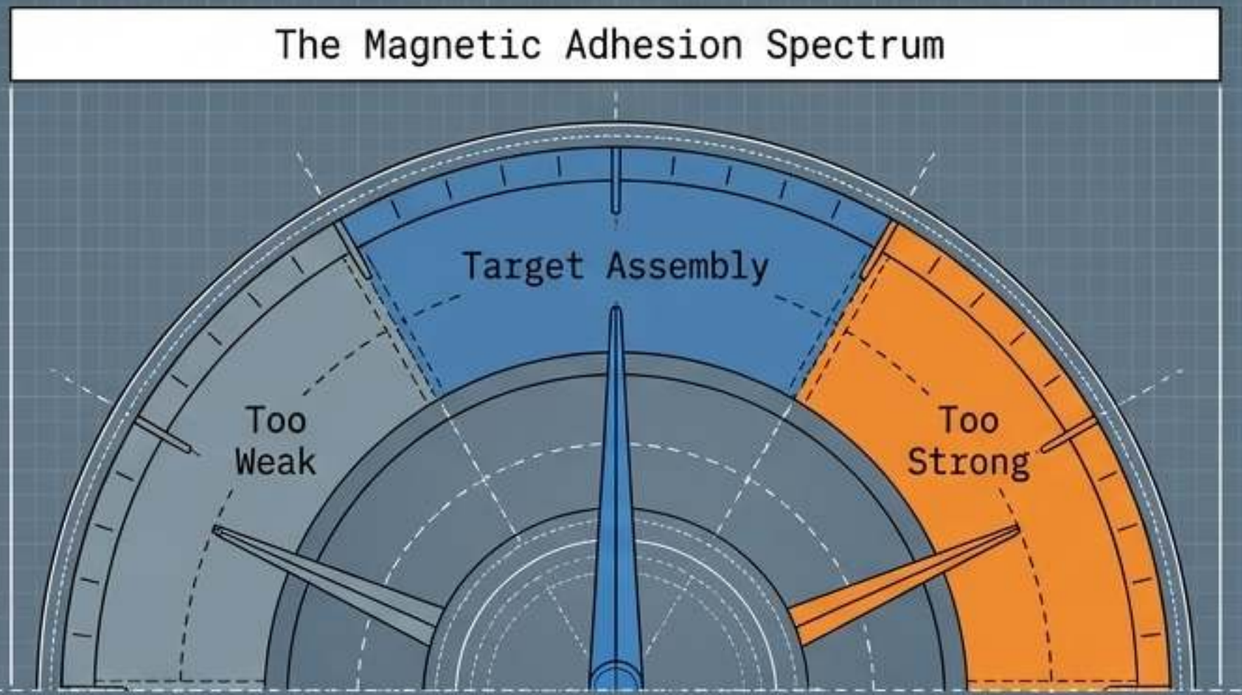
Lock the accepted physical reference and note agreed corrections.

## Step 6: Inspect & Dispatch

Compare bulk finished goods against the frozen reference sample.

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# Calibrating Attachment: The Adhesion Spectrum




Fails to support intended load; slides down surface; falls off upon door impact.

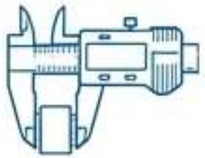
Securely holds target paper quantity; removes comfortably; maintains bond between metal body and magnet.

Makes removal difficult; separates the decorative metal body from its adhesive backing; scratches target surface.

Note: Do not assume a stronger backing solves a surface that does not attract magnets (e.g., certain stainless steels). Test the intended refrigerator door first.

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# The Inspector's Pre-Dispatch Scorecard



## Dimensions & Mass

Measure finished units (mm/g) strictly against the approved drawing tolerances.



## Artwork & Finish

Compare lettering, color, relief, and defect limits directly with the physical sample.



## Edges & Rear Contact

Inspect for burrs, trapped dirt, and exposed roughness that could scratch a fridge.



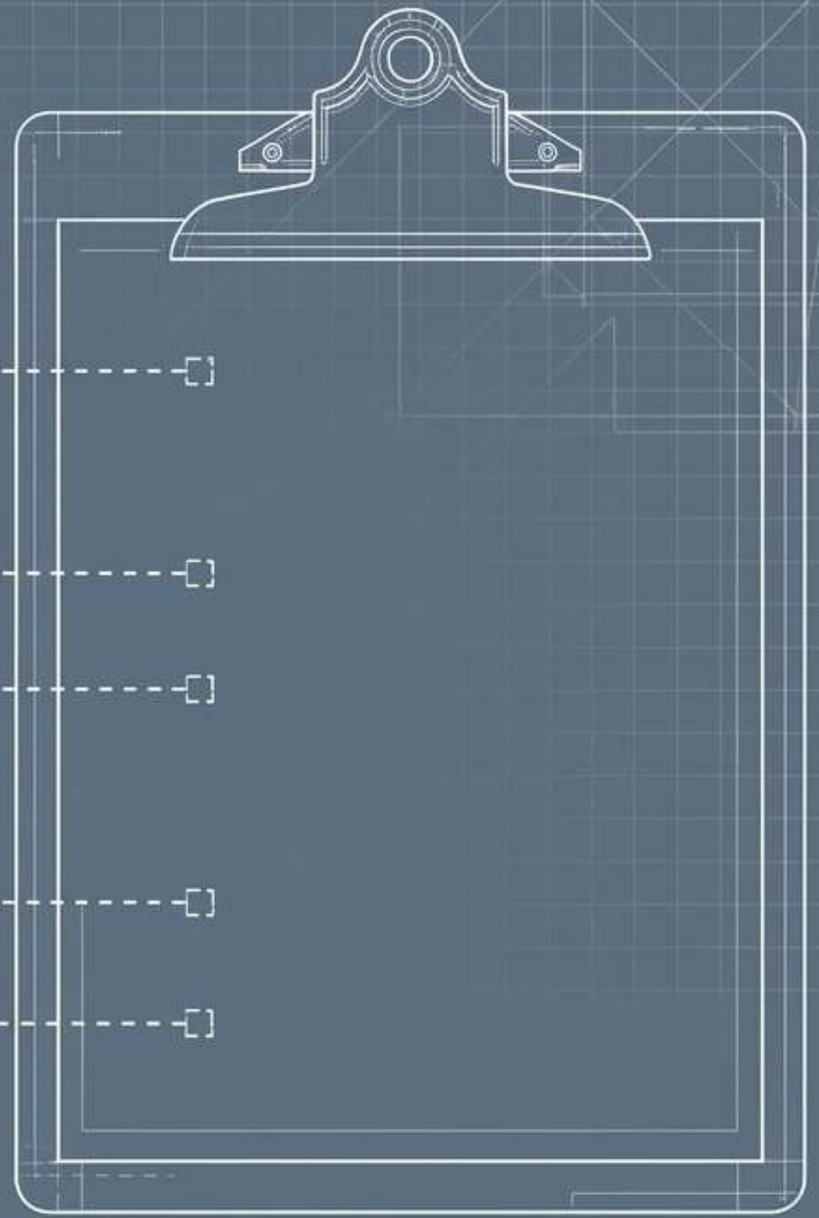
## Magnetic Attachment

Assess sliding, removal, and loading on a named target surface (not just stainless steel).



## Backing Retention

Evaluate the adhesive's survival under agreed handling and removal conditions.



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# Navigating Compliance and Safety Thresholds

**Identify Intended Market & Audience.**

(A "not a toy" label does not bypass actual marketing assessment).

## U.S. Magnet Rule

For loose/separable magnets fitting inside a small-parts cylinder, flux index must be < 50 $kG^2\ mm^2$.

(Note: ZPCM0005 has no verified compliance result; configuration-specific assessment is required).

## Environmental/Chemical (REACH & RoHS)

Do not treat generic statements as universal proof. Ask which substance requirements apply to your specific destination.

Request documentation of the actual adhesive, coating, and backing used.

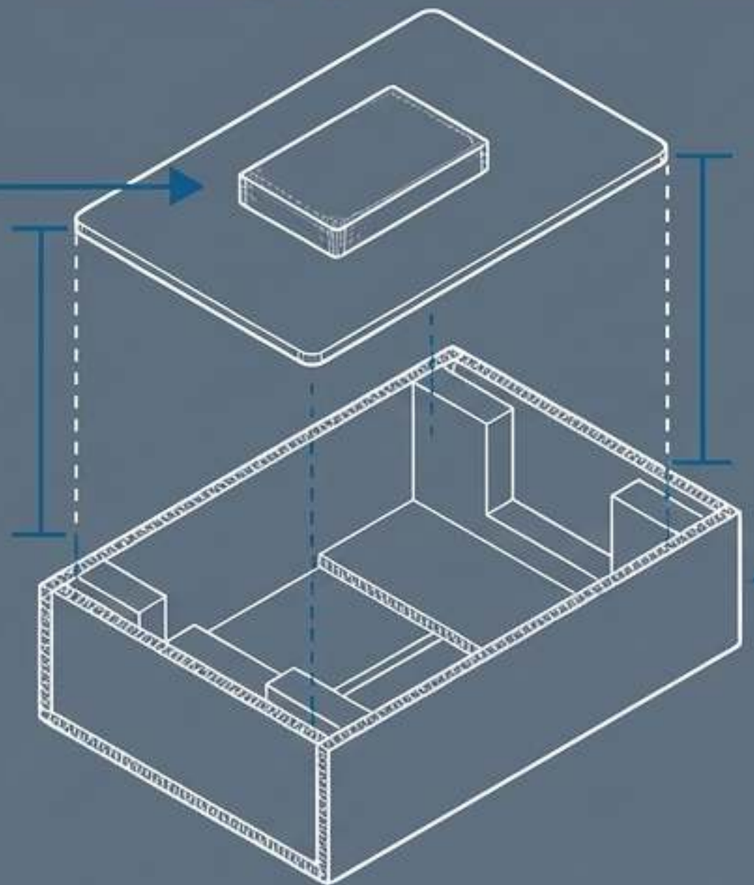
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# Dual-Layer Packaging: Presentation vs. Protection

## The Packaging Protection Model

**Inner Layer (Retail Presentation)**

Maximizes front face visibility, supports the brand identity, and dictates shelf placement.



**Outer Layer (Transit Protection)**

Provides individual separation, prevents face-to-face rubbing, restrains movement during freight, and mitigates air-shipment risks.

Insight: A retail presentation card and transit protection perform different roles; neither should be assumed to replace the other. Confirm the packed configuration before finalized freight quotation.

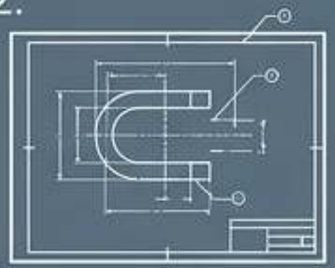
# Protecting the Reorder: The Verification Dossier

1.



Approved Artwork Revision

2.



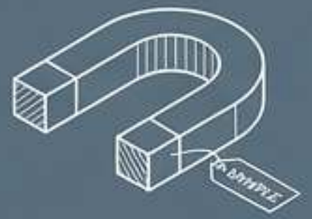
Dimensioned Production Drawing

3.



Finish & Color Reference

4.



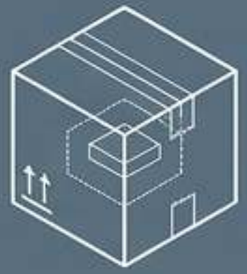
4. The Frozen Physical Sample

5.



5. Backing & Adhesive Specification

6.



6. Packaging Configuration Record

**Core Rule:** A matching front image does not guarantee the underlying assembly remains unchanged. Review proposed substitutions carefully. Establish mold ownership and reuse terms in writing upfront.

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The Final Synthesis: Specifying an Assembly, Not an Object

# The Total Assembly Equation

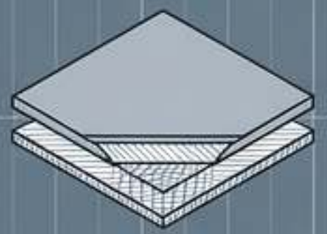
**Body**
(Zinc Alloy)



Heavy, dimensional, decorative. Requires robust adhesion.

+

**Interface**
(Adhesive)



Must bond metal to magnet without degrading.

+

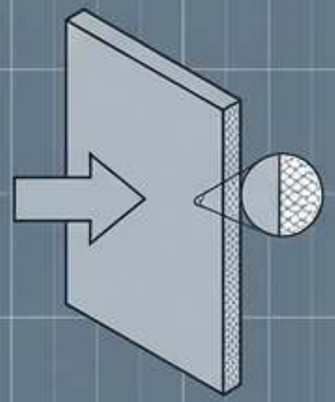
**Anchor**
(Magnet)




Calibrated for holding power without excessive pull-force.

+

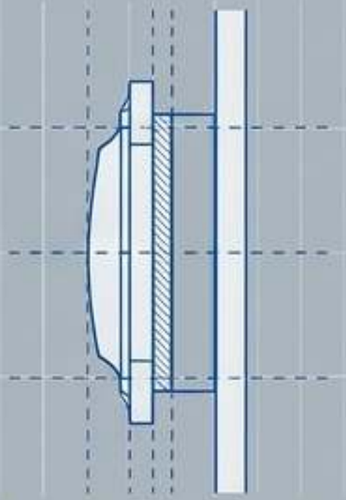
**Environment**
(Target Surface)



The real-world fridge door. Roughness and magnetic attraction vary.

=

**Performance**



A custom magnet is only as successful as its weakest layer.

**Closing Takeaway:** You are not just buying a piece of sculpted metal. You are specifying a functional assembly. Demand validation at every step.

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