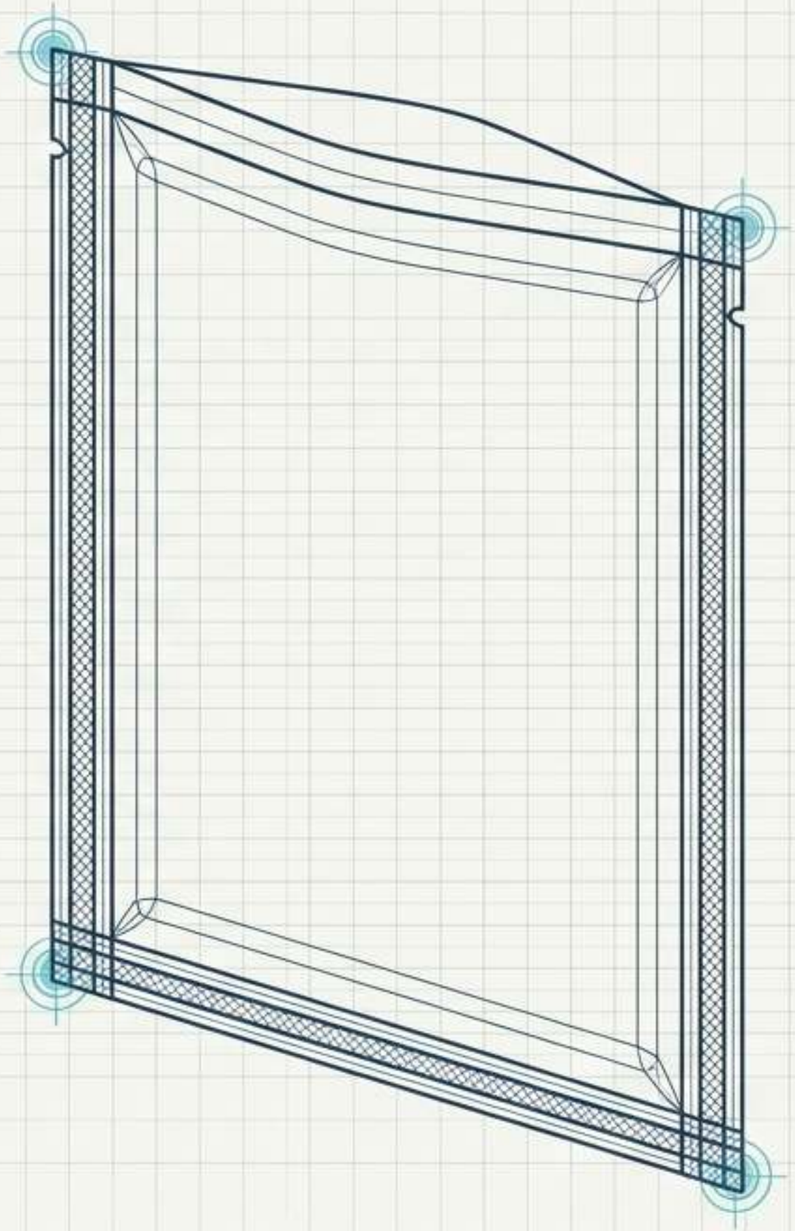
CUSTOM THREE SIDE SEAL POUCHES

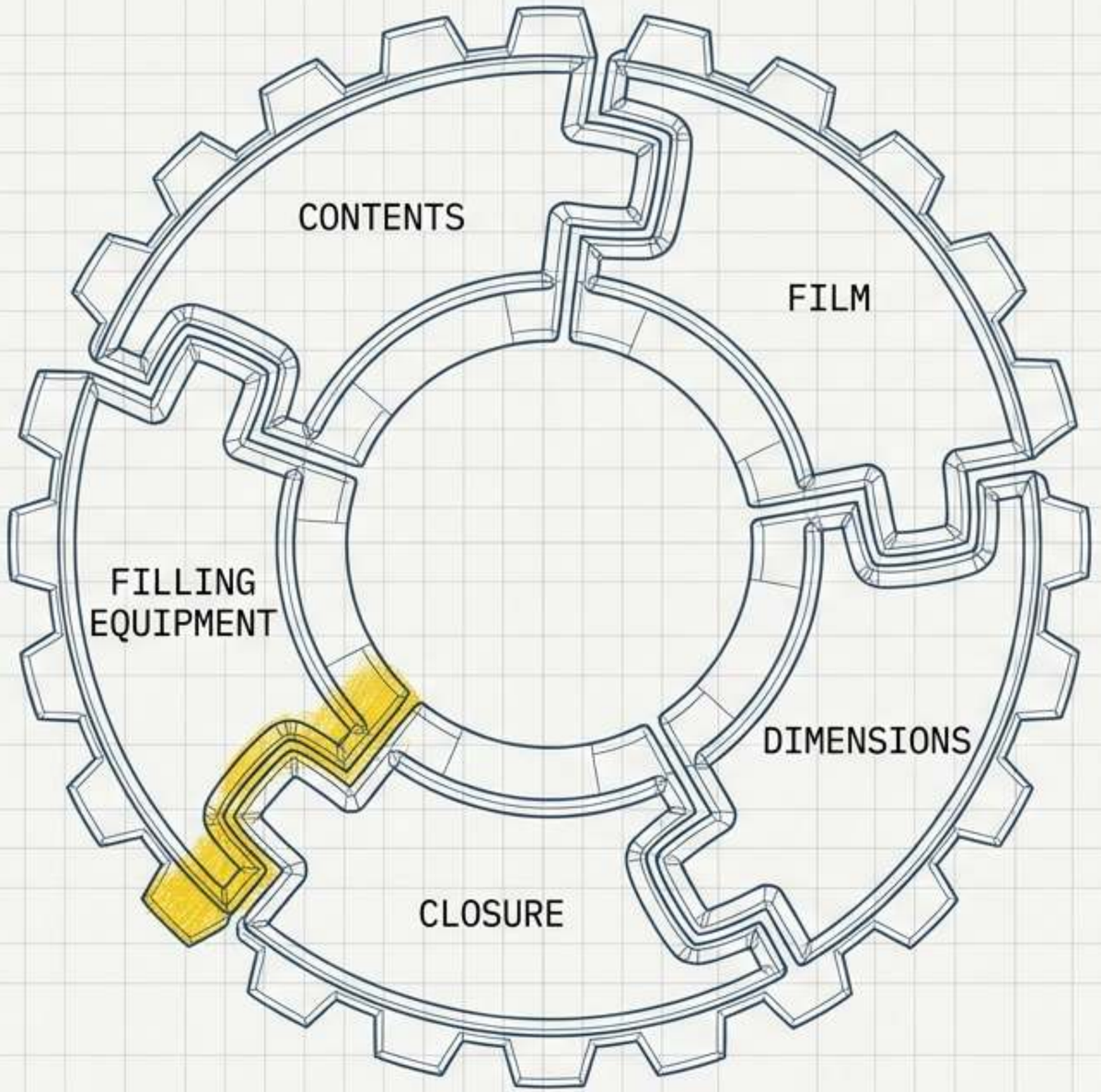
A Technical Buyer's Guide for Product-Specific Packaging

SPECIFICATION BLUEPRINT
FOR SKU: ZPCPLB0001

DIAGNOSTIC GUIDANCE FOR SPECIFICATION, VALIDATION, AND QUOTATION. INTERNAL ASSUMPTIONS CARRY FINANCIAL RISK.



ZIGPAC



THE PACKAGE AS A WORKING SYSTEM

A pouch can look flawless in an artwork proof and fail catastrophically during filling. Rejected packaging interrupts operations, ties up cash, and undermines the product experience.

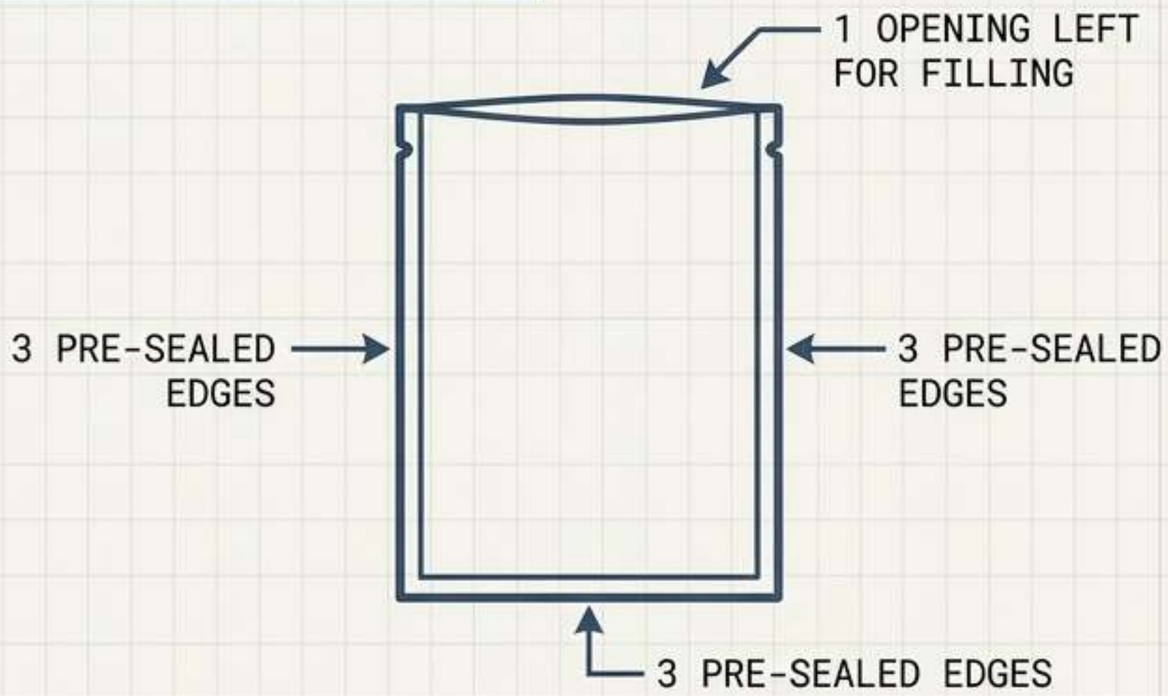
CRITICAL INSIGHT

We must approve the package as an interdependent working system, not an isolated graphic. Insufficient headspace, unsuitable laminates, or misplaced features become expensive errors after printing.

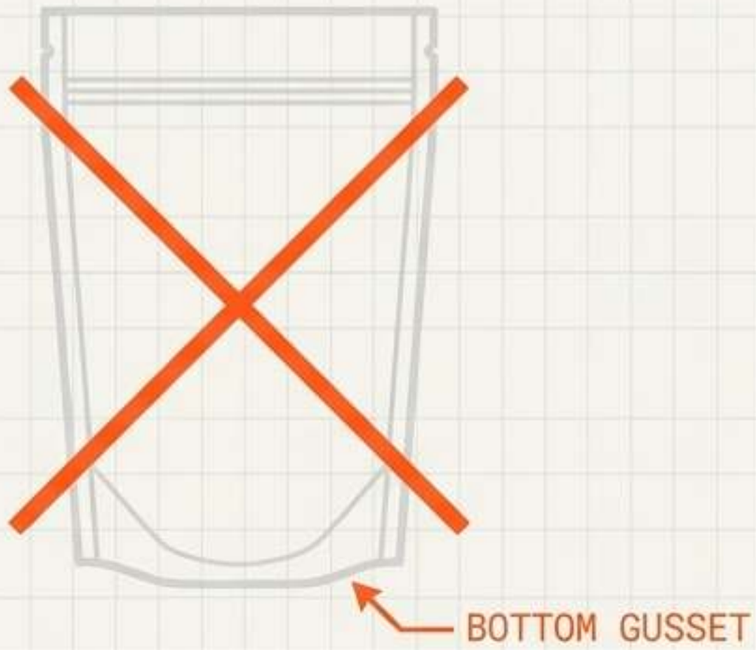
STRUCTURAL DEFINITION & STRUCTURAL LIMITS

The defining layout is a flat body with three pre-sealed edges. It has no bottom gusset for freestanding display.

ZPCPLB0001 FLAT POUCH



STAND-UP POUCH (FOR REFERENCE ONLY)

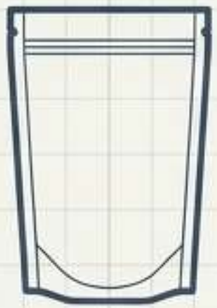


APPLICATION SUITABILITY

Ideal for sample kits, cartons, multipacks, and dedicated hanging displays. If the package must stand unaided on a retail shelf, this format is structurally incorrect.

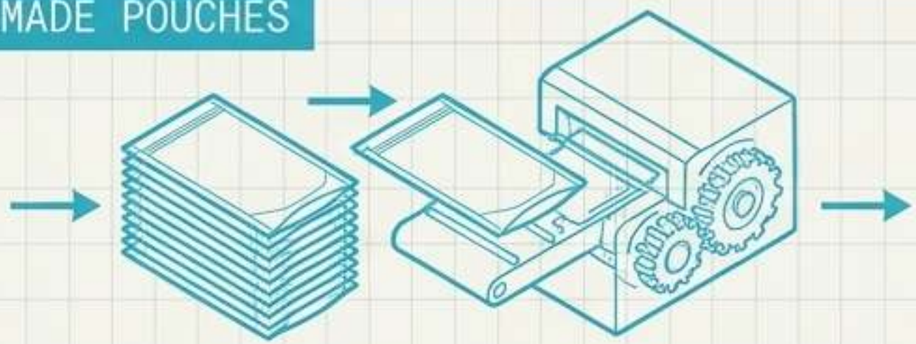
A Shared Appearance Does Not Establish Equipment Compatibility

The finished pouch might look identical on the shelf, but the supply format dictates filling operations.



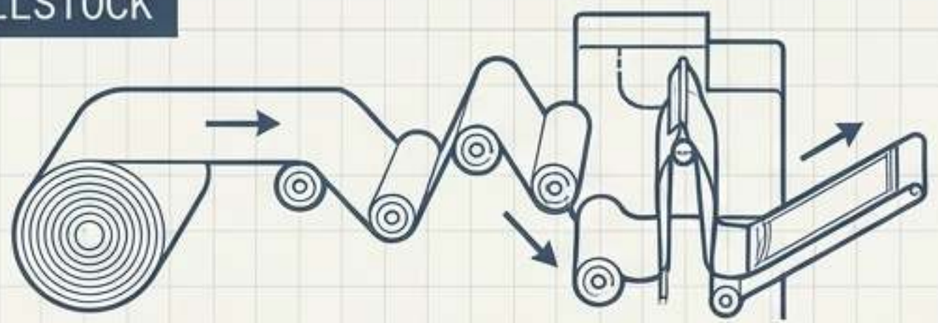
FINISHED APPEARANCE

PREMADE POUCHES



Individual, pre-formed bags loaded into a mechanical slot.

ROLLSTOCK



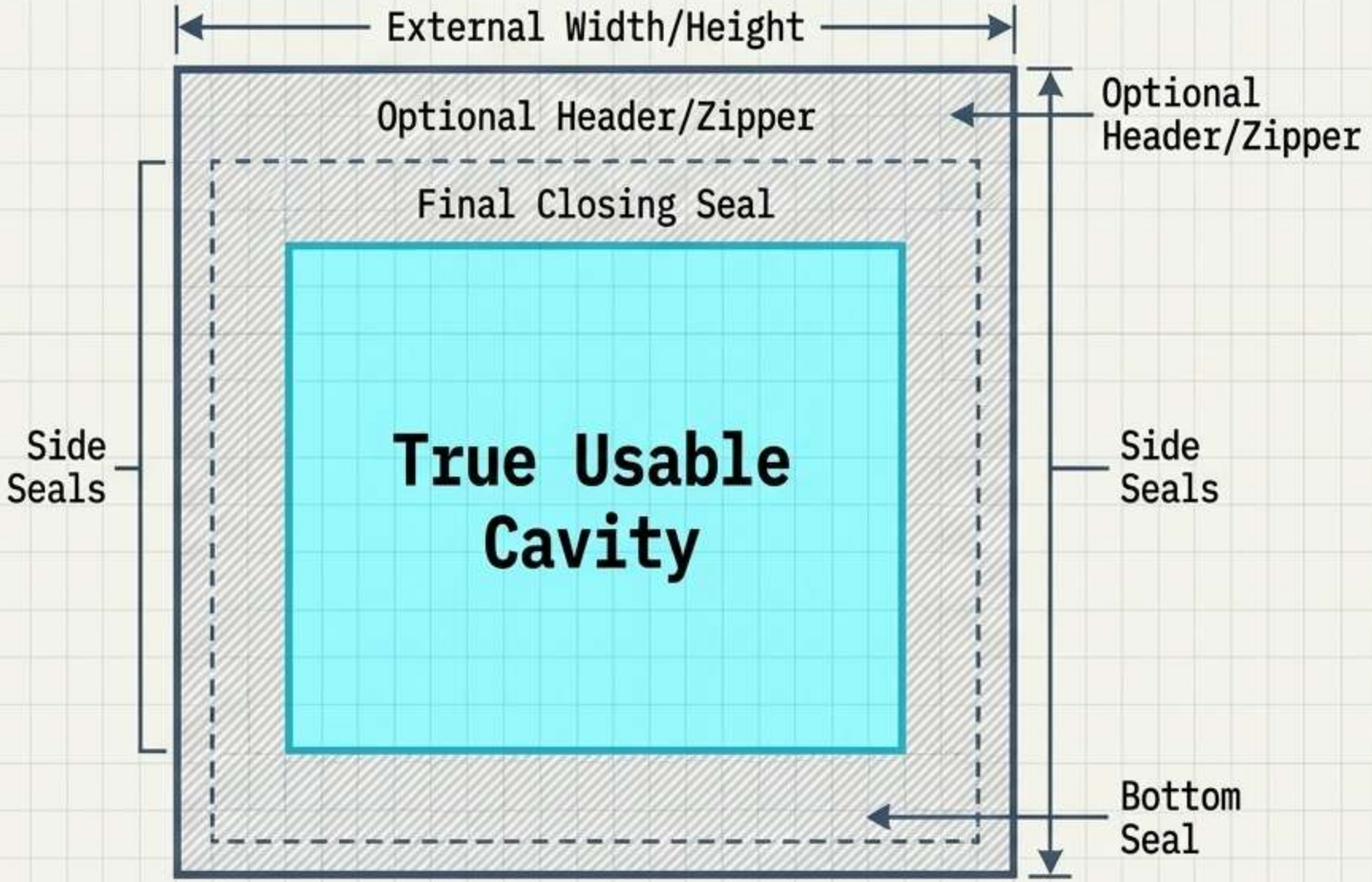
Continuous roll of film wound through Form-Fill-Seal rollers.

CAUTION: State explicitly which supply format your filling operation requires before requesting a price. A premade pouch handler cannot run rollstock film, and vice versa.

ZIGPAC

External Dimensions ≠ Usable Cavity

Capacity is determined by actual product dimensions and loaded sample validation, not a generic bag size.



CRITICAL CAVEAT

A stated net weight does not establish pouch size.

Products with different bulk densities or shapes occupy different volumes at the exact same weight.

Evaluate actual headspace and opening clearance with a filled physical sample.

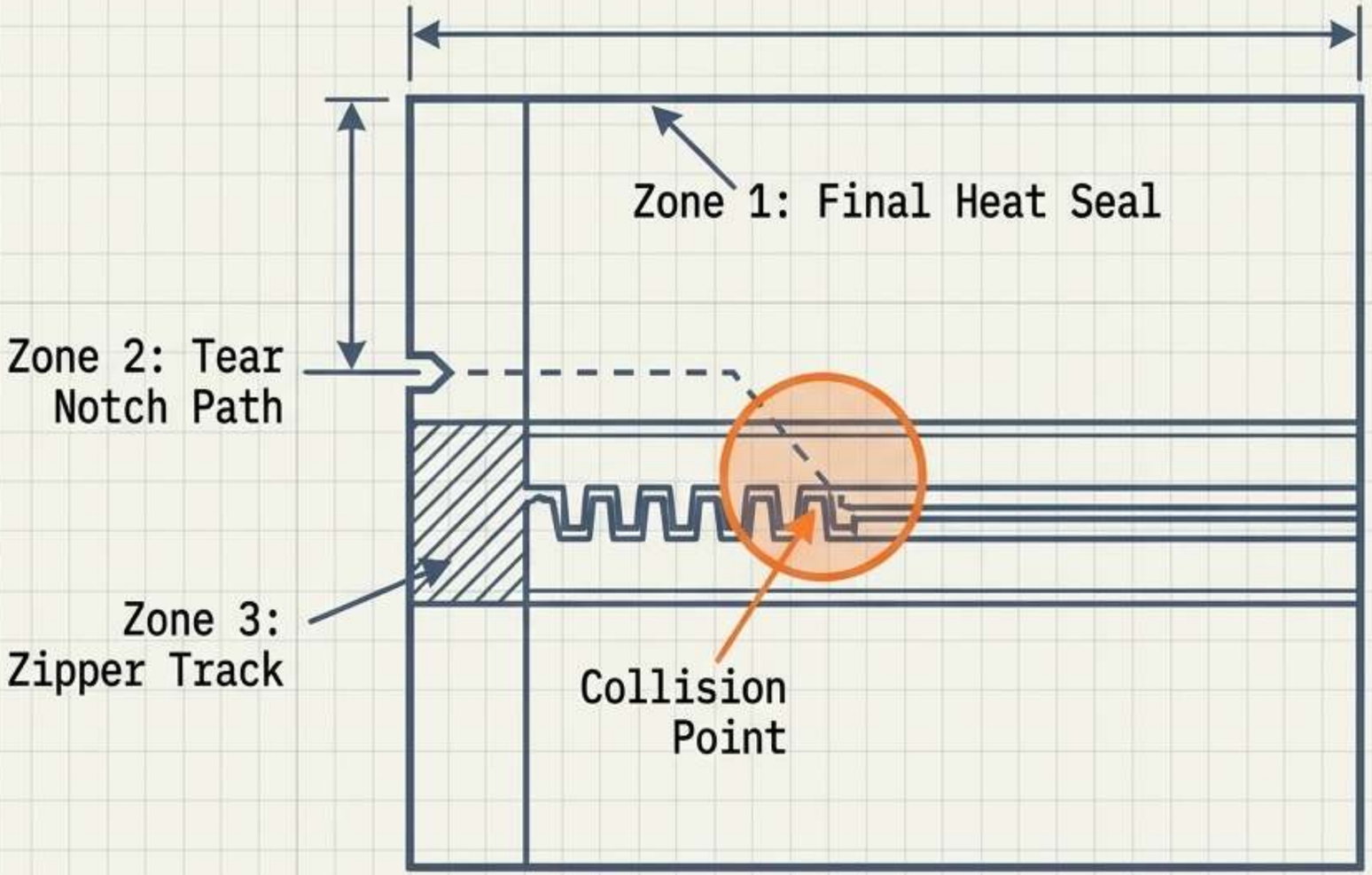
Feature Placement & Closure Collision

Zippers, tear notches, and hanging holes are variable design choices–not automatic defaults. Each combination requires a feasibility review.

COLLISION WARNING

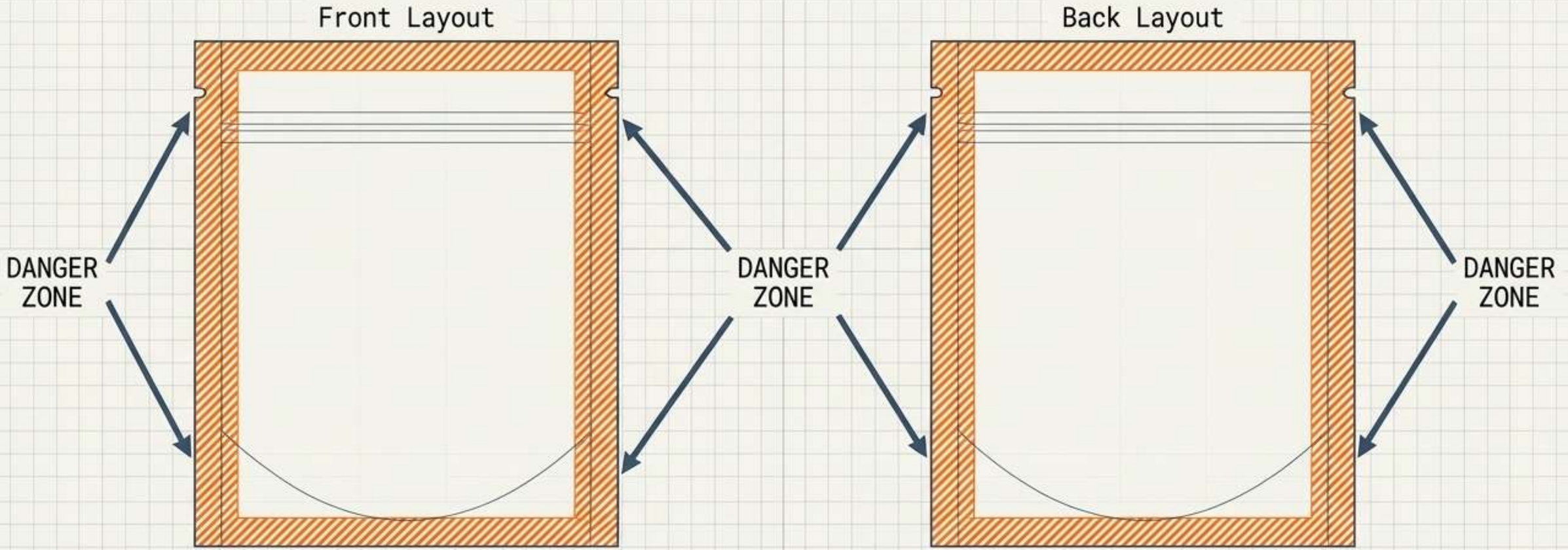
Review the tear notch position relative to the zipper and the final heat seal.

An incorrectly placed tear path will destroy the reclosure function upon first opening.



Layout Preflight & The Limits of the Screen

Avoid placing essential text, batch codes, or barcodes across a seal, notch, or opening path.
A large on-screen proof can easily conceal text that becomes illegible on a physical sachet.



COLOR MATCHING RULE:

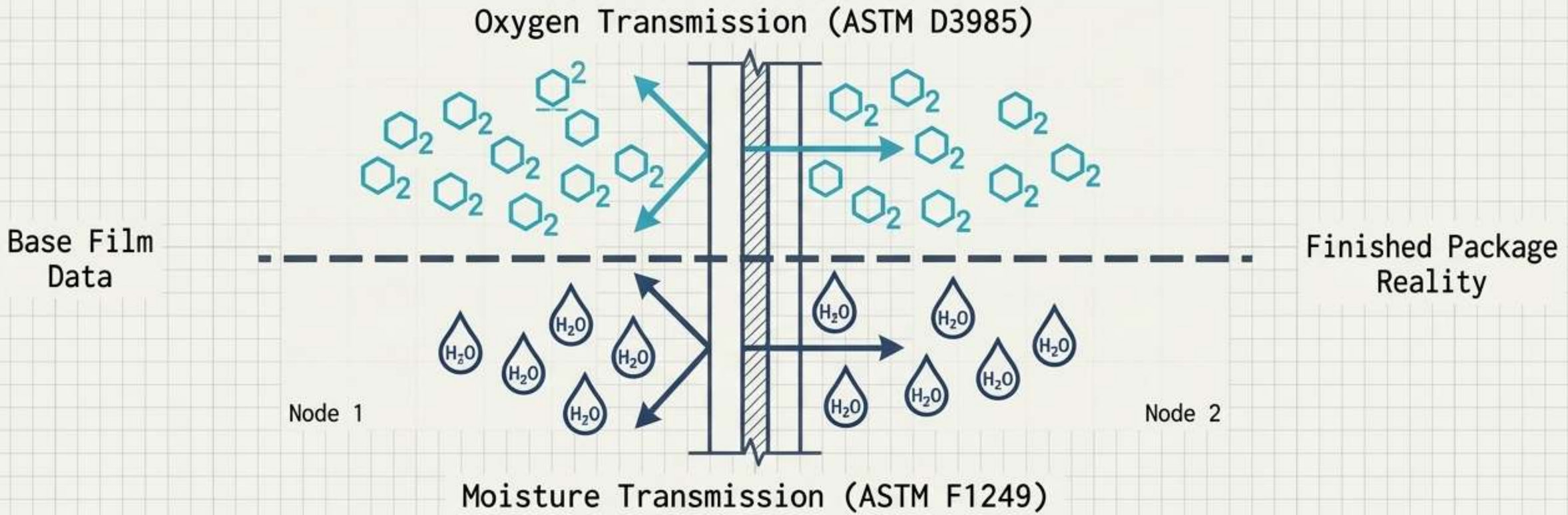
Screen appearance cannot establish the final result on transparent, white, metallized, or foil constructions. Agree on a physical color reference and acceptance tolerance prior to production.

The Material Construction Matrix

Construction Identity	Primary Reason to Consider	Crucial Limitations
PET/PE or BOPP/PE	Transparent constructions for suitable dry products	Do not assume oxygen barrier or long shelf life
PET/VMPET/PE	Metallized barrier for added protection	Not equivalent to solid foil; verify barrier post-conversion
PET/AL/PE	Solid aluminum foil for light/demanding barriers	Opaque, recycling limits; mechanical damage compromises performance
PA/PE	High puncture resistance priority	Suitability remains dependent on product shape and loaded testing
EVOH	Dual priority of transparency + O2 protection	Humidity drastically affects performance; test under relevant exposure

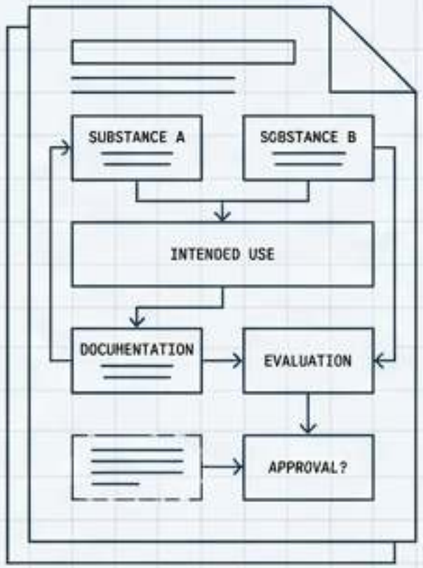
Evaluating Barrier Performance Metrics

Film data alone does not establish finished-package performance. Mechanical handling and conversion alter transmission rates.



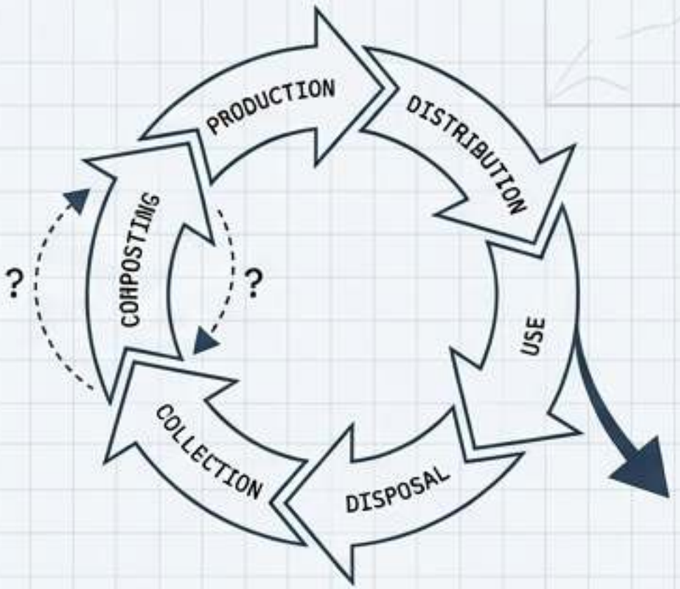
TESTING GUARDRAILS
Transmission rates ($cm^3(STP)/(m^2 \cdot day)$ for O2, $g/(m^2 \cdot day)$ for moisture) must be evaluated with explicit temperature and humidity conditions. Values collected under different environmental conditions cannot be treated as equivalents.

Regulatory & Claims (Fact vs. Fiction)



Component-Based Assessment (US FDA / EU 10/2011)

Regulatory status depends on constituent substances and intended use conditions. Base film documents do not automatically validate finished combinations of inks and adhesives. Reject unqualified “FDA-approved” stamps.



Material vs. Infrastructure

A mono-material design does not guarantee local collection/recycling. A “paper-look” surface does not make a laminate paper-recyclable. Compostability requires separate disposal evidence.

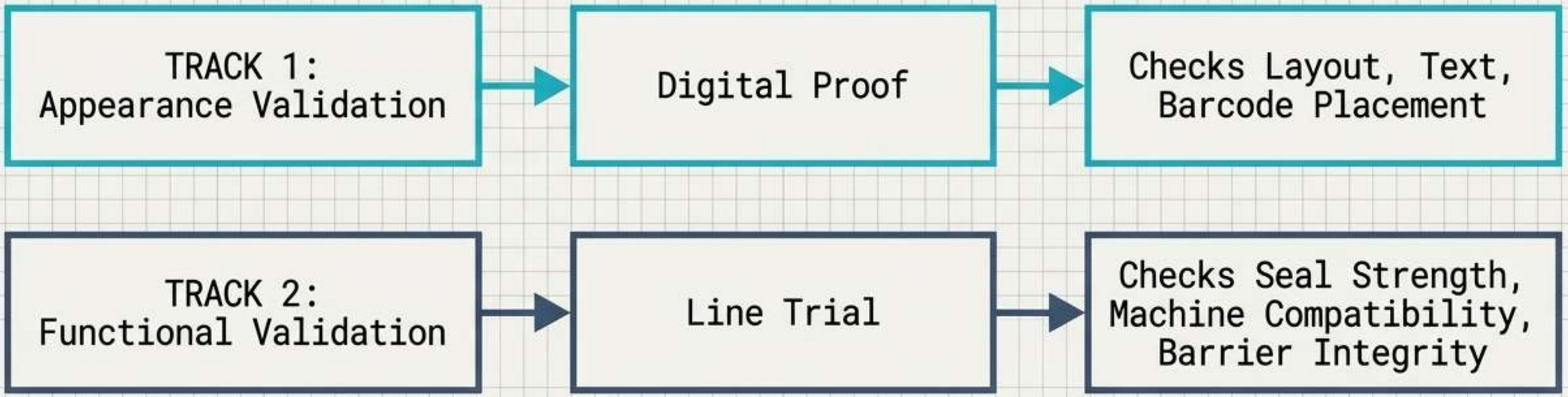
ZIGPAC

The Validation Divide

Keep artwork approval strictly separate from functional approval.

CORE WARNING

A digital proof never establishes seal strength, opening behavior, or filling machine compatibility. Record exactly which sample represents which approved attribute.



ZIGPAC

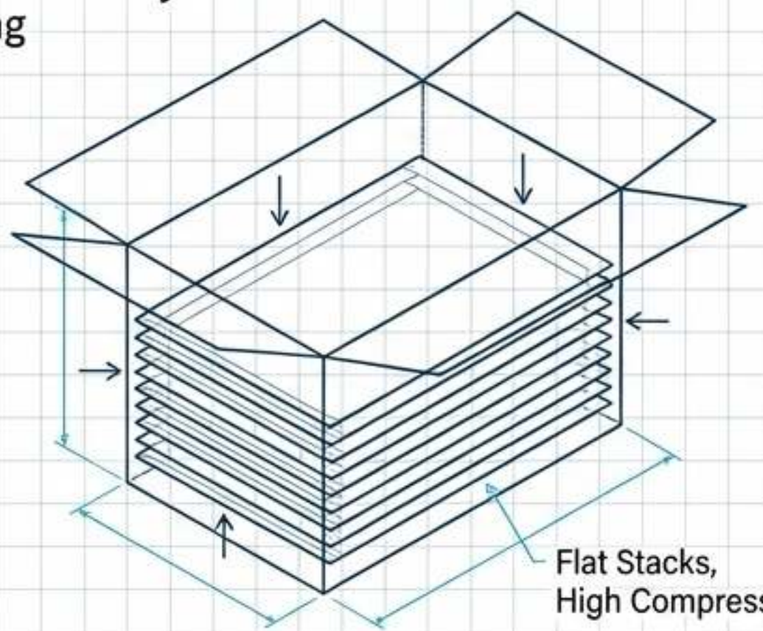
Establishing Acceptance Criteria

Assessment Item	What to Record	The Decision it Supports
Dimensions & Seals	Outside dims + seal widths (mm) + tolerances	Handling, usable space, filling compatibility
Laminate Construction	Layers (out to in) + thickness (µm)	Material identity and comparative consistency
Seal Strength	Force per width (N/15mm) + failure mode (ASTM F88/F88M)	Acceptance against mechanical sealing spec
Package Integrity	Method + sample condition + observations	Detection of leakage paths (Peel force ≠ leak tightness)
Usability	Tear behavior, zipper function, scan readability	Final presentation and consumer experience

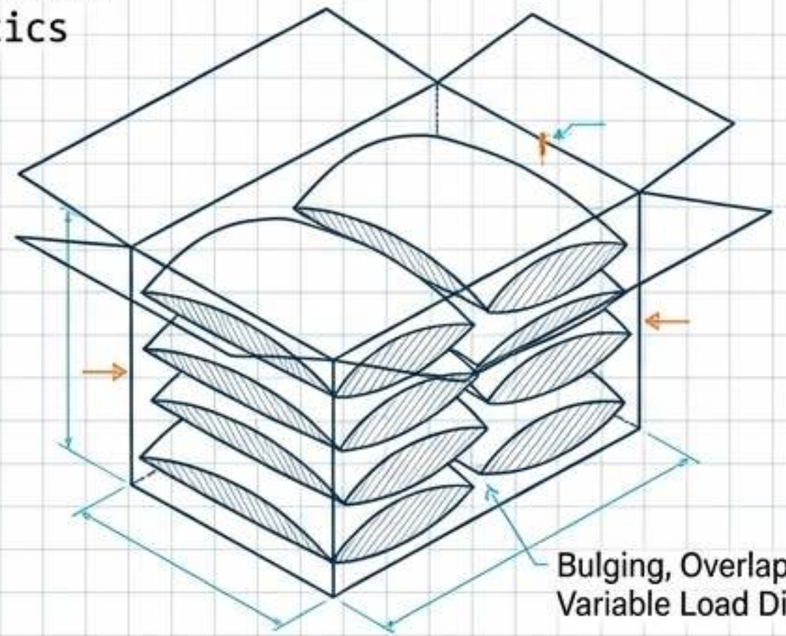
Protecting the Output & Locking the Specification

Confirm measures against moisture and crushing for empty cartons. Finished, filled packs require a completely separate distribution assessment due to altered weight and shape profiles.

Empty Inventory Handling



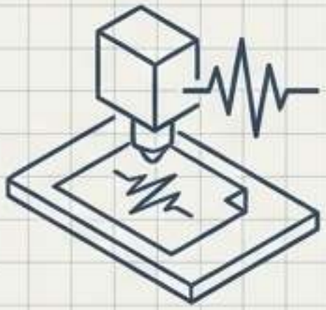
Filled Pack Logistics



RULES FOR REPEAT ORDERS

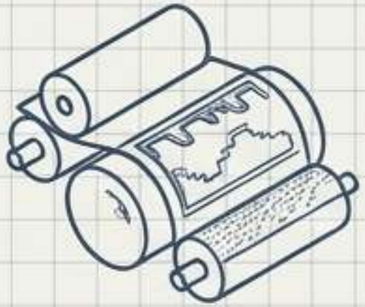
Retain the exact approved artwork revision, material construction, dieline, and functional sample. A previous successful batch does not validate an undisclosed material substitution or a change in filling line conditions.

Order Economics & Printing Routes



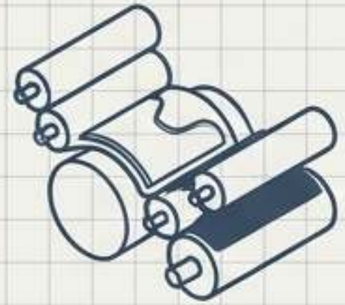
Digital

High agility. Route for trials, frequent design changes, and multi-SKU line-ups.



Gravure

Requires cylinder preparation. Route for established, high-volume repeat orders.



Flexography

Alternative high-volume quotation option.

[Fixed Dimensions] + [Fixed Material] + [Fixed Volume] = [Fair Quote]

Make quotations **strictly comparable.** Fix the construction, print requirements, features, quantity, and delivery scope before comparing unit prices. A lower upfront unit price can easily be erased by hidden setup costs or a specification failure on the line.

The Quote-Ready Packaging Brief

The strongest starting point is a rigid, comprehensive description of what the system must do. Reference ZPCPLB0001 when requesting a specific quotation.

- [x] Exact Contents & Target Fill Weight
- [x] Proposed External Dimensions (if known)
- [x] Environmental Shelf-Life Objective
- [x] Designated Filling Equipment (Premade vs Rollstock)
- [x] Destination Market & Use Conditions
- [x] Feature Requirements (Zipper, Notch, Finish)
- [x] Order Quantity & Delivery Scope

FINAL NOTE: Any unresolved dimensions or materials remain sample-development items. Do not assume specifications.