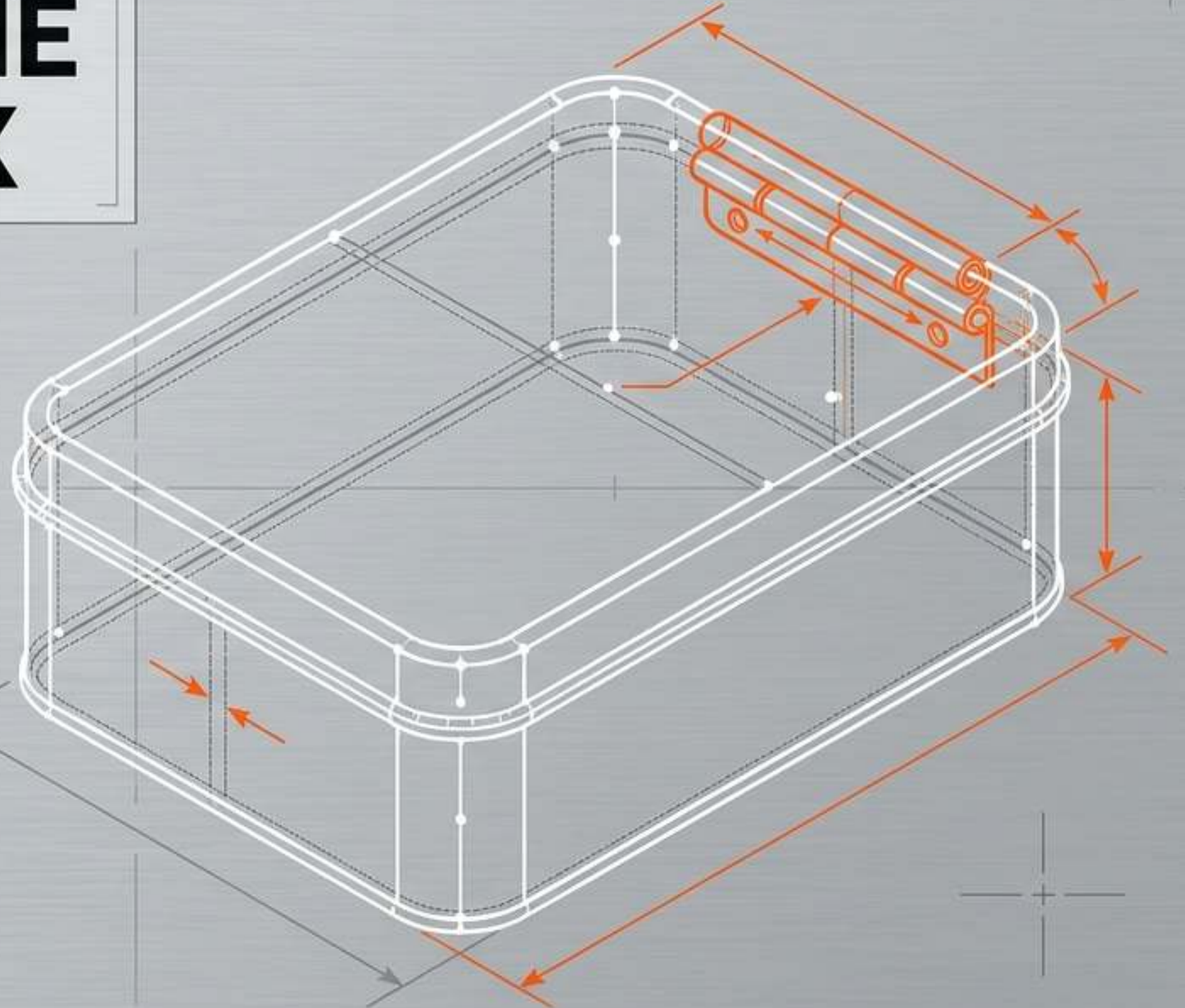


ENGINEERING THE CUSTOM TIN BOX

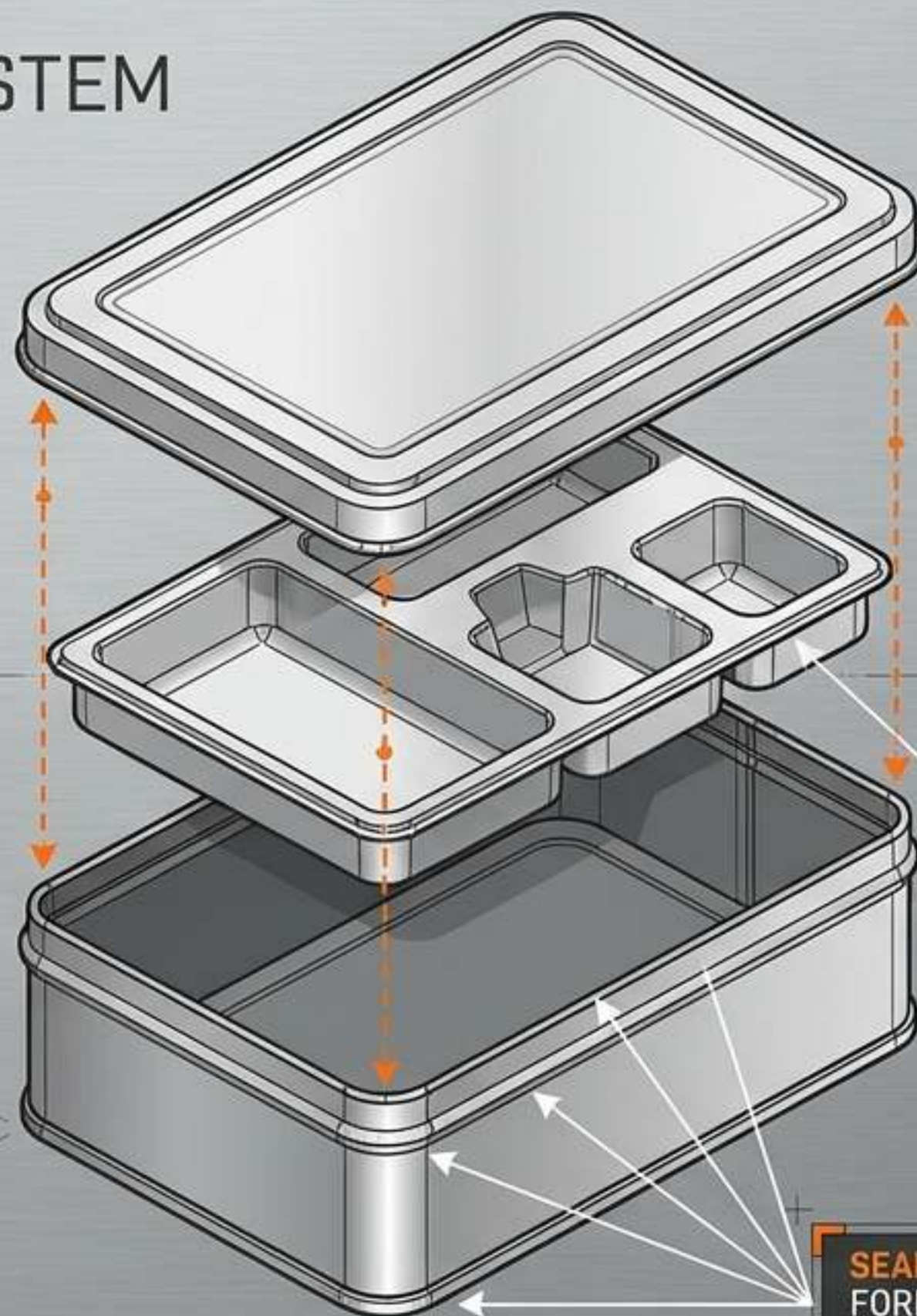
A BUYER'S ROADMAP FROM
DESIGN SPECIFICATION TO
MANUFACTURING RFQ

SOURCING STANDARDS &
PROCUREMENT PLAYBOOK



THE ANATOMY OF A METAL PACKAGING SYSTEM

A **CUSTOM TIN BOX** IS A FORMED METAL CONTAINER COMPRISING A BODY AND ONE OR MORE CLOSURE COMPONENTS, SPECIFIED FOR PRESENTATION, ORGANIZATION, GIFTING, STORAGE, OR REPEAT USE.

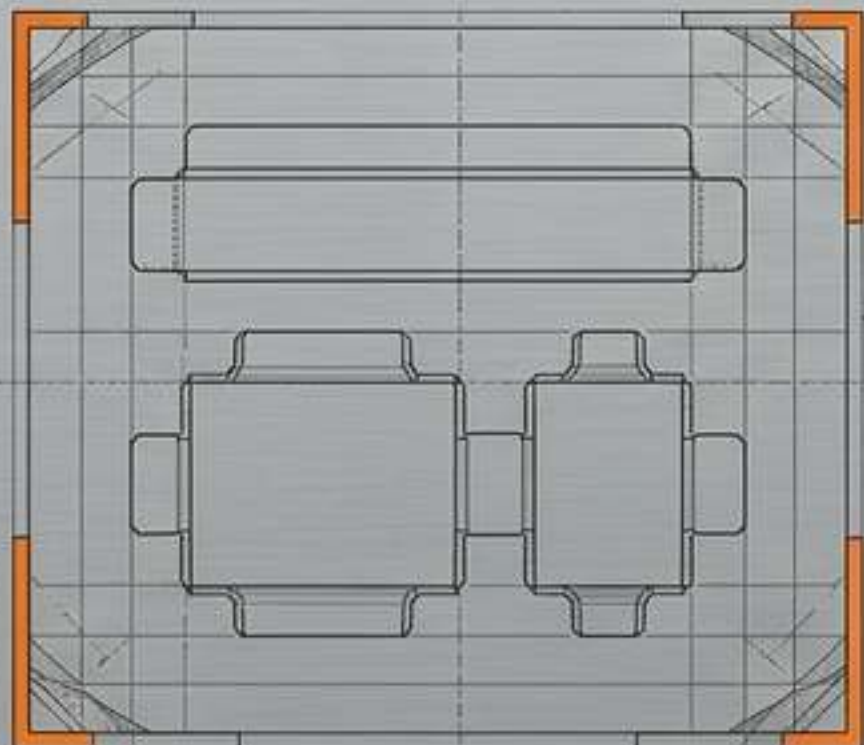


CLOSURES:
VARIATIONS INCLUDE
HINGED, REMOVABLE,
SLIDE, OR OTHER CUSTOM
OPENING ARRANGEMENTS

PRIMARY BODY: THE FORMED
METAL BASE CASING.

INTERNAL RETENTION:
INSERT OR DIVIDER SYSTEMS
DESIGNED TO HOLD PRODUCTS

SEAMS & EDGES: STRUCTURAL
FORMING POINTS CRITICAL FOR
INTEGRITY AND ARTWORK ALIGNMENT



SITUATING CUSTOM TINS IN THE PACKAGING ECOSYSTEM

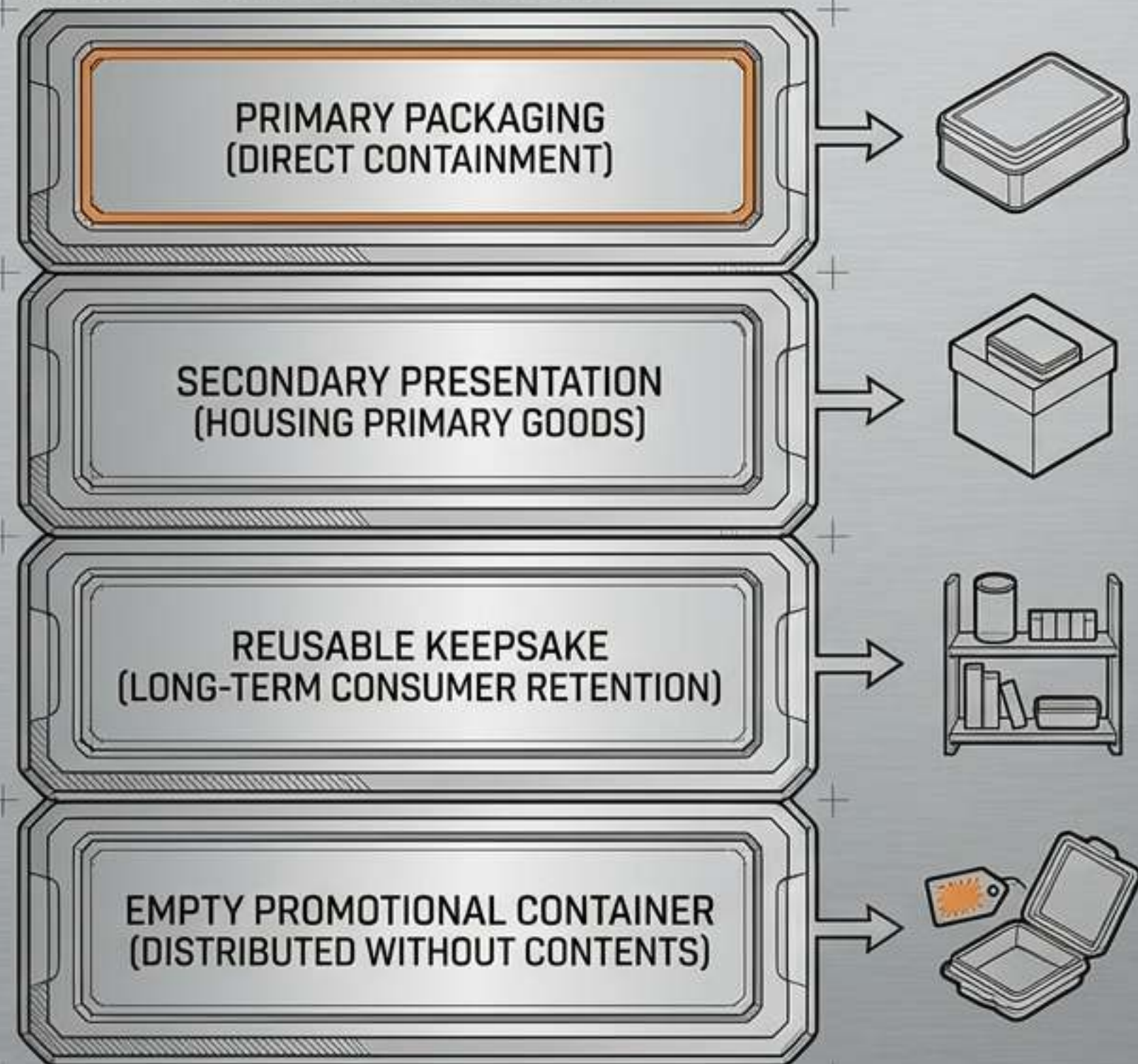
	 CUSTOM TIN	 RIGID BOX	 TUBE	 CLAMSHELL
PRIMARY MATERIAL BASE	FORMED METAL	PAPER / BOARD	PAPER / BOARD	PLASTIC
FORMING FLEXIBILITY	HIGHLY ADAPTABLE SHAPES	LINEAR / GEOMETRIC	INHERENTLY CYLINDRICAL	THERMOFORMED CONTOUR
CLOSURE ROUTE	HINGED, REMOVABLE, SLIDE	FRICTION FIT, MAGNETIC	CAP, FRICTION	SNAP LOCK, HEAT SEAL
SURFACE BEHAVIOR	SCRATCH & DENT SENSITIVE	PAPER WEAR, SCUFF	CRUSH SENSITIVE	CRACKING, SCUFFING



THE 'SEALED CAN'
DISTINCTION: CUSTOM TINS
ARE FREQUENTLY CONFUSED
WITH FULLY SEALED CANS OR
REGULATORY CLOSURES. THEY
ARE DISTINCT PRODUCT
CATEGORIES REQUIRING ENTIRELY
DIFFERENT MANUFACTURING
APPROACHES.

ESTABLISHING THE FUNCTIONAL BASELINE

SPECIFY THE EXACT ROLE OF THE TIN
IN THE PRODUCT LIFECYCLE:

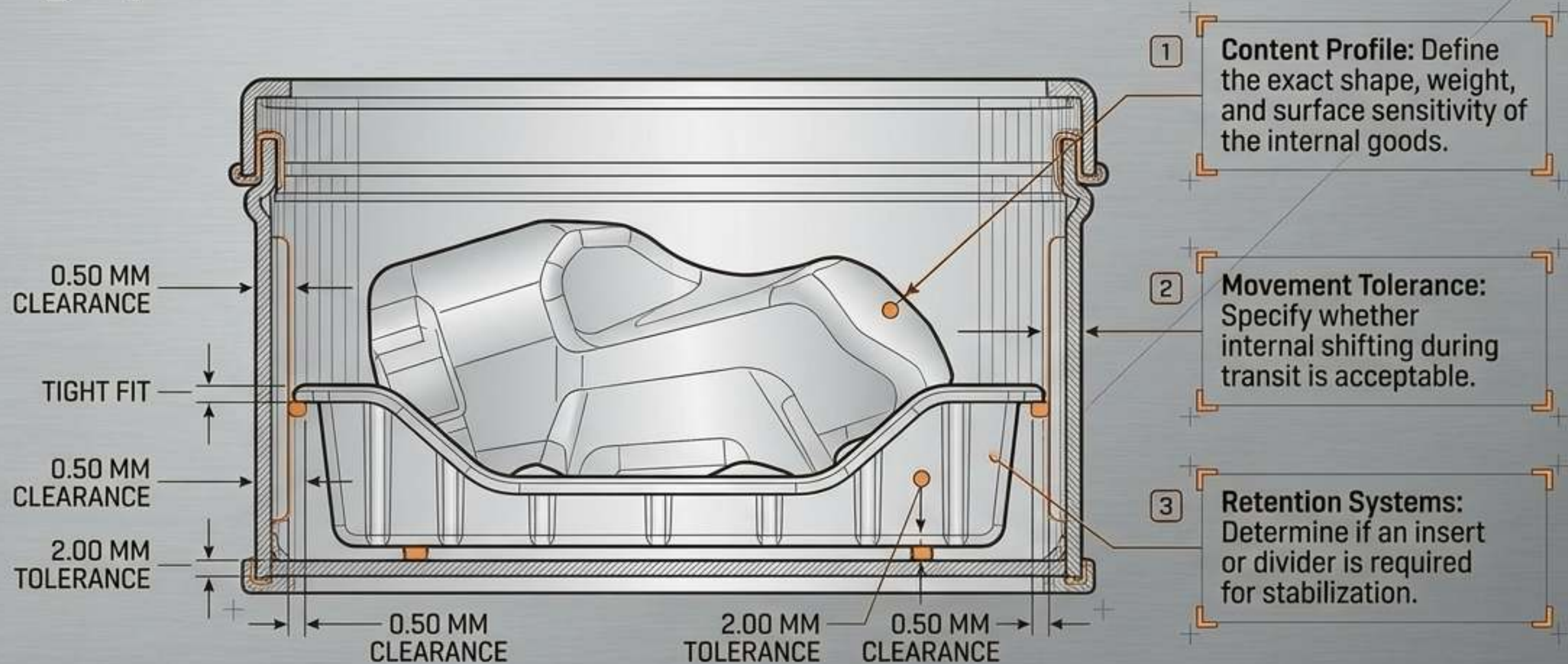


THE DECORATIVE FALLACY

A VISUALLY STUNNING TIN IS NOT
AUTOMATICALLY A FUNCTIONAL BARRIER.
WITHOUT EXPLICIT REQUESTS AND VALIDATION,
DO NOT ASSUME A CUSTOM TIN ACTS AS A:

- ~~[X] - SHIPPING CASE~~
- ~~[X] - MOISTURE BARRIER~~
- ~~[X] - FOOD-CONTACT PACK~~
- ~~[X] - CHILD-RESISTANT PACKAGE~~
- ~~[X] - TAMPER-EVIDENT SOLUTION~~

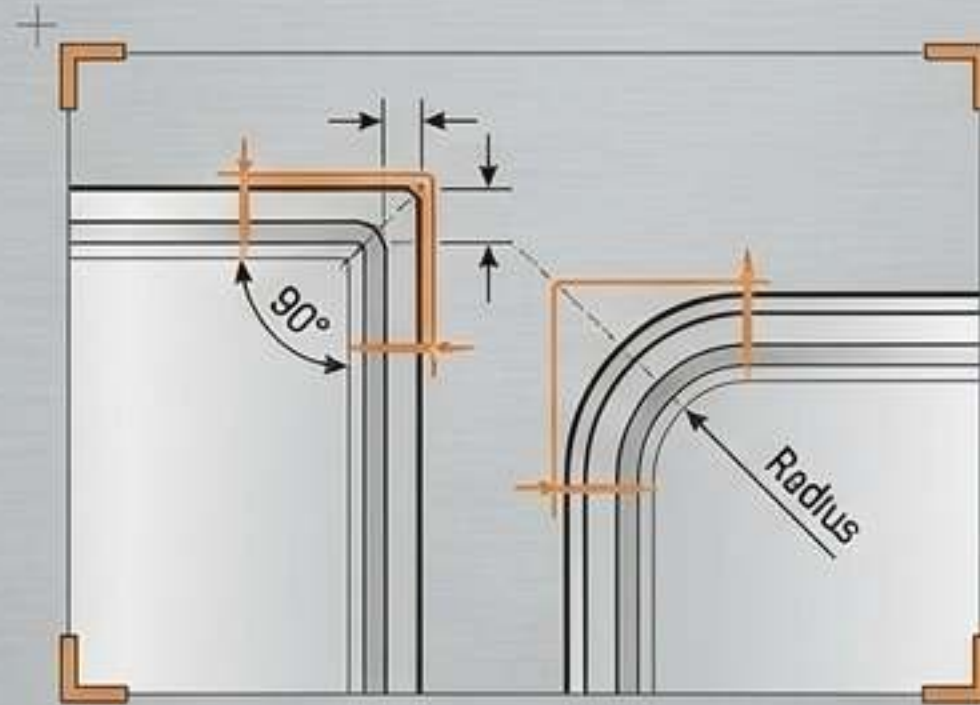
Engineering the Interior Fit and Loading Dynamics



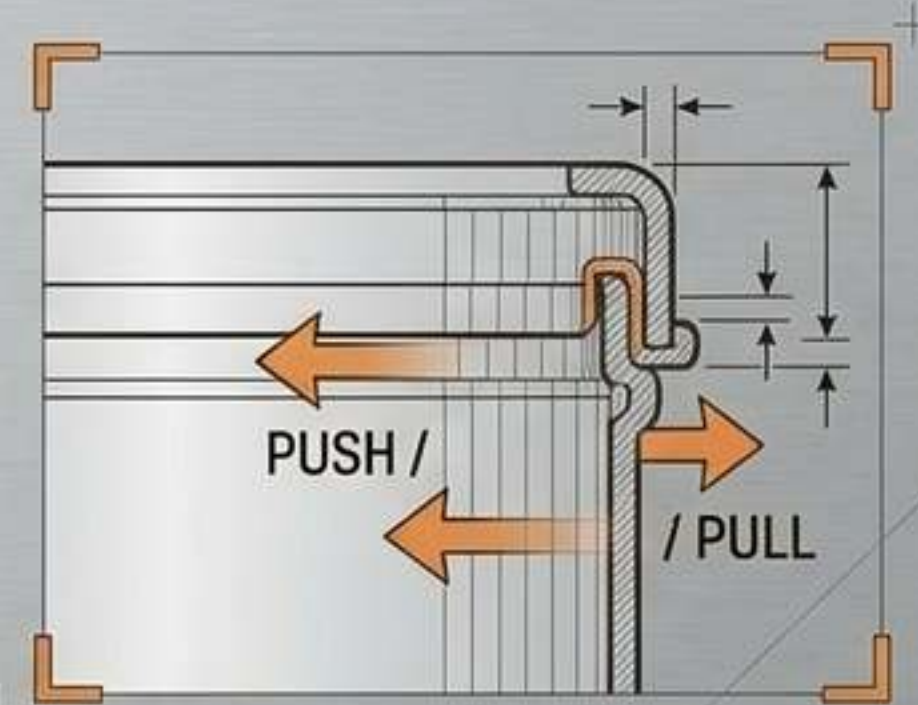
The Unboxing Experience: Describe the product loading process and confirm whether the end-user should see the product immediately upon opening the closure.

Defining Structural Geometry and Physical Interaction

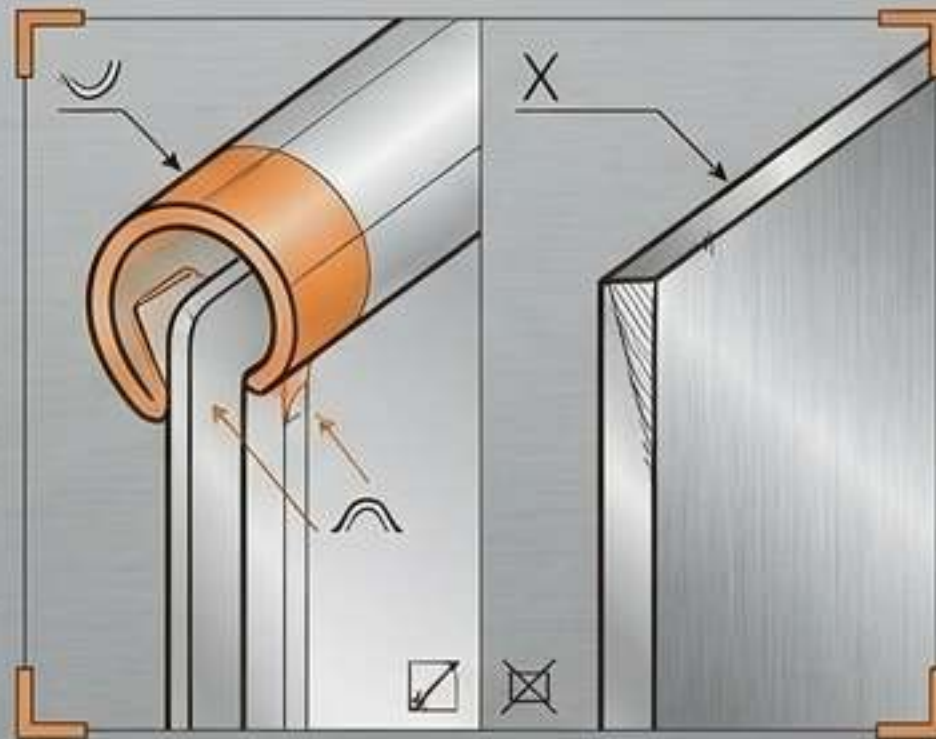
Corner Geometry:
Sharp radius vs. soft rounded corners.



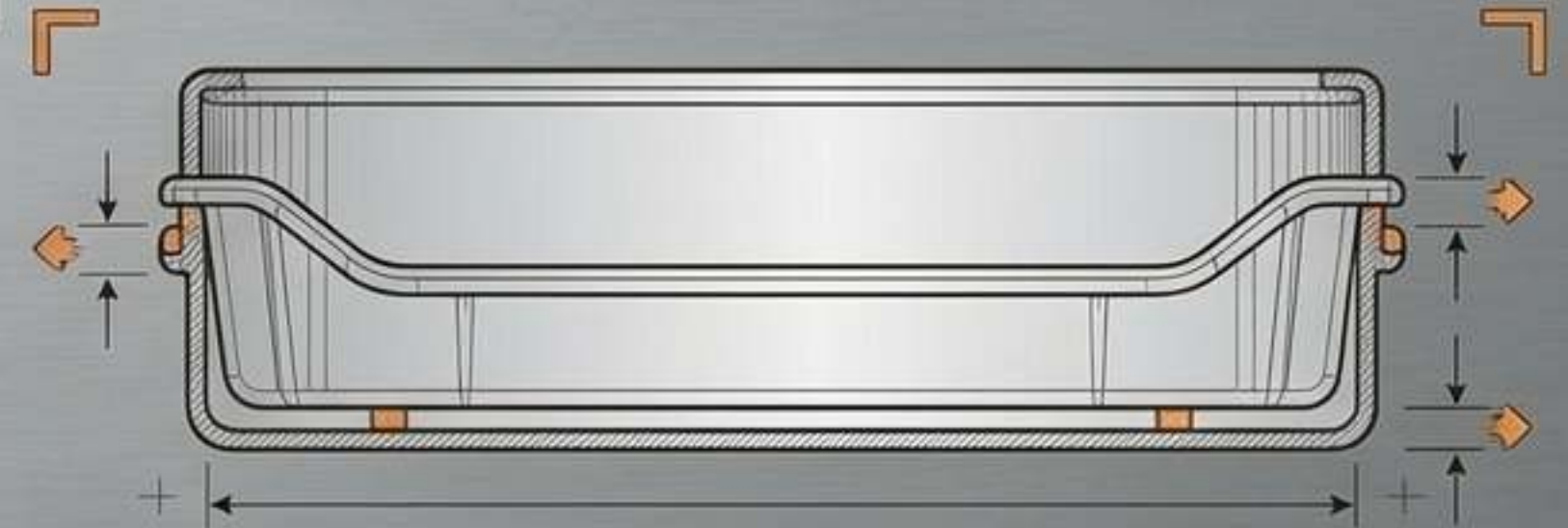
Closure & Opening Effort:
Friction-fit torque and removal effort. How much force should the user apply?



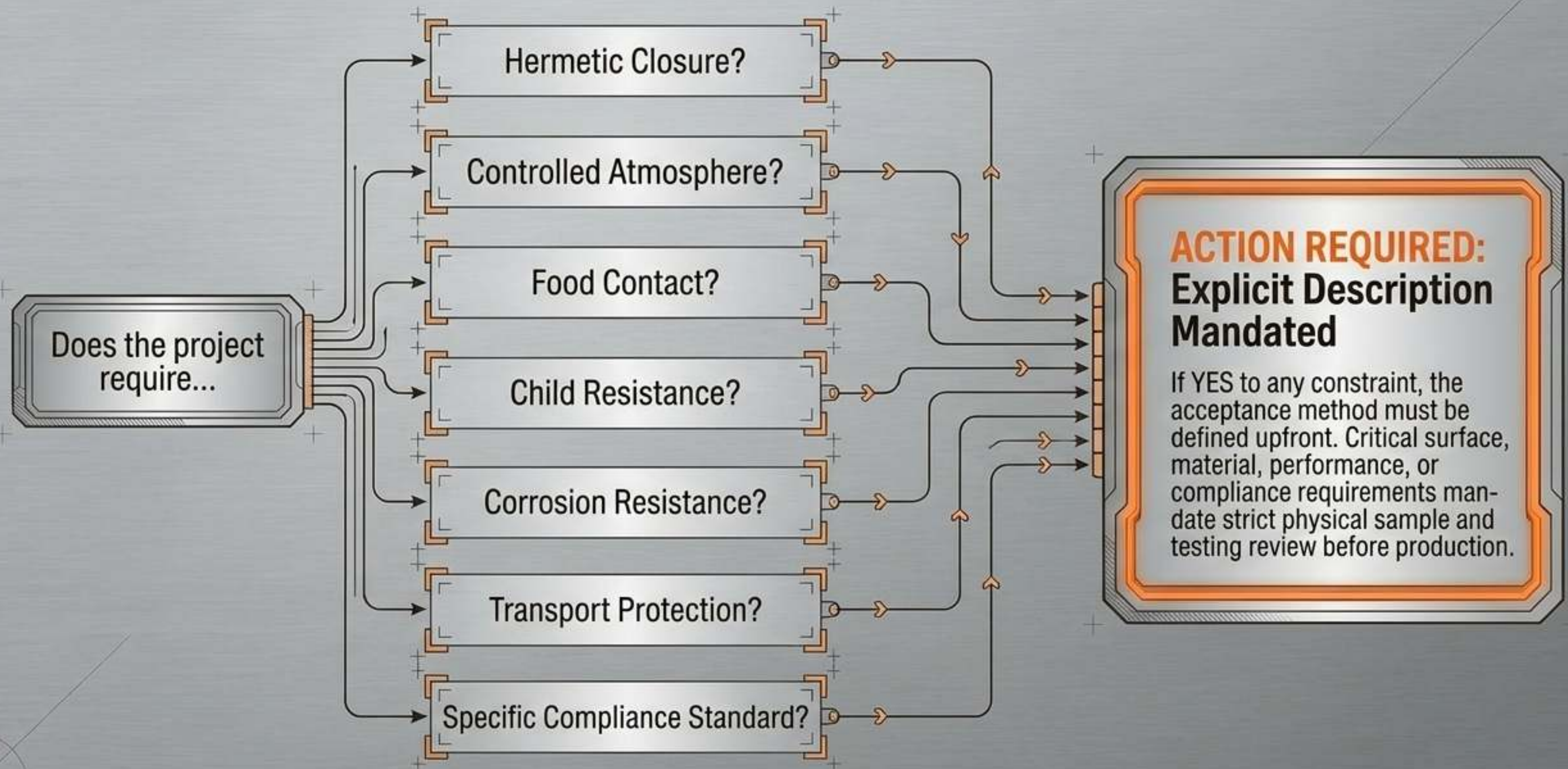
Edge Feel: Rolled metal edge vs. raw edge. Dictates tactile feedback and safety.



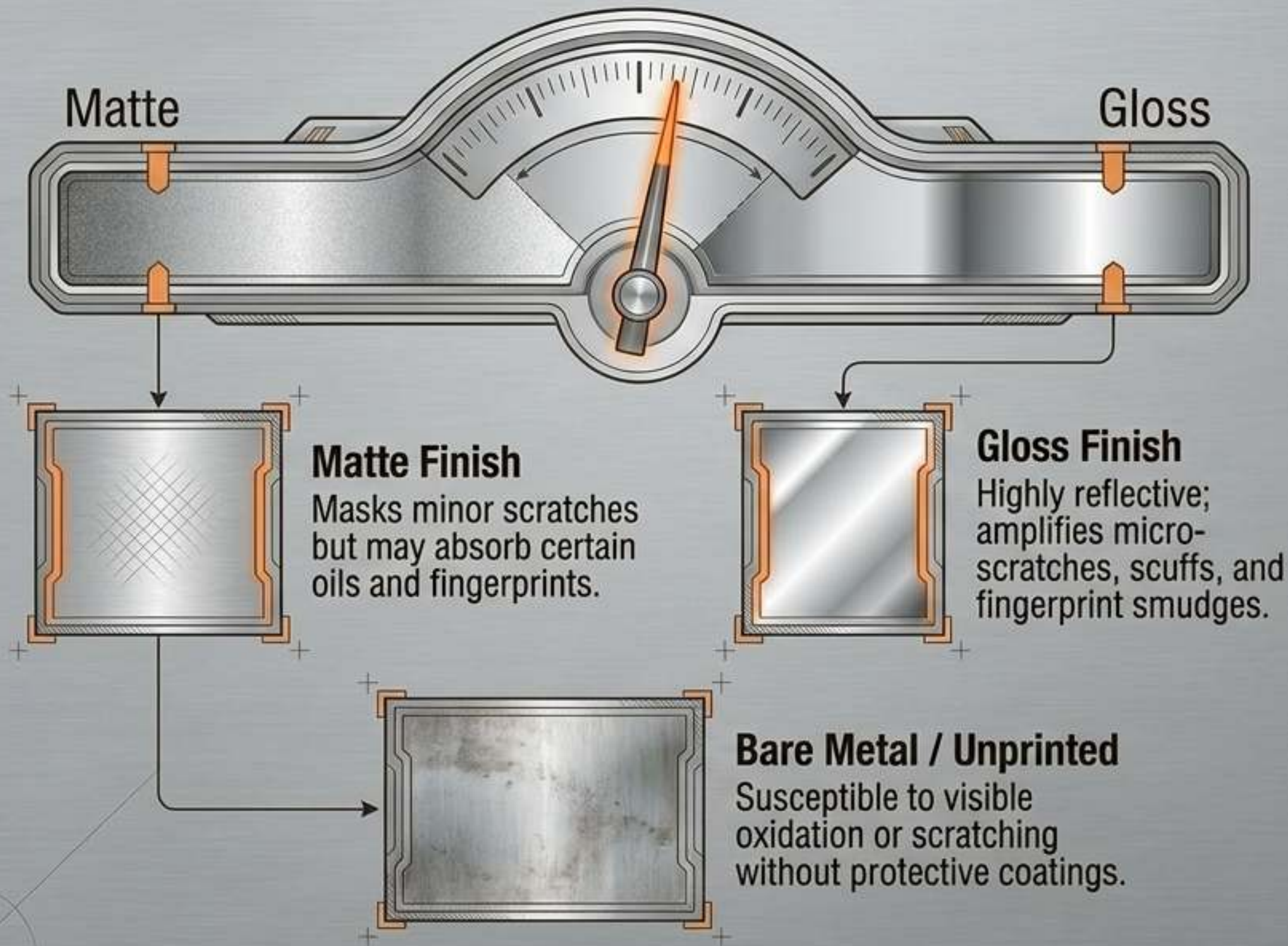
Stackability & Orientation: Nested profiles for retail stacking and preferred display orientation on shelves.



The Critical Compliance Decision Tree



Translating Visual Intent: The Surface Sensitivity Spectrum

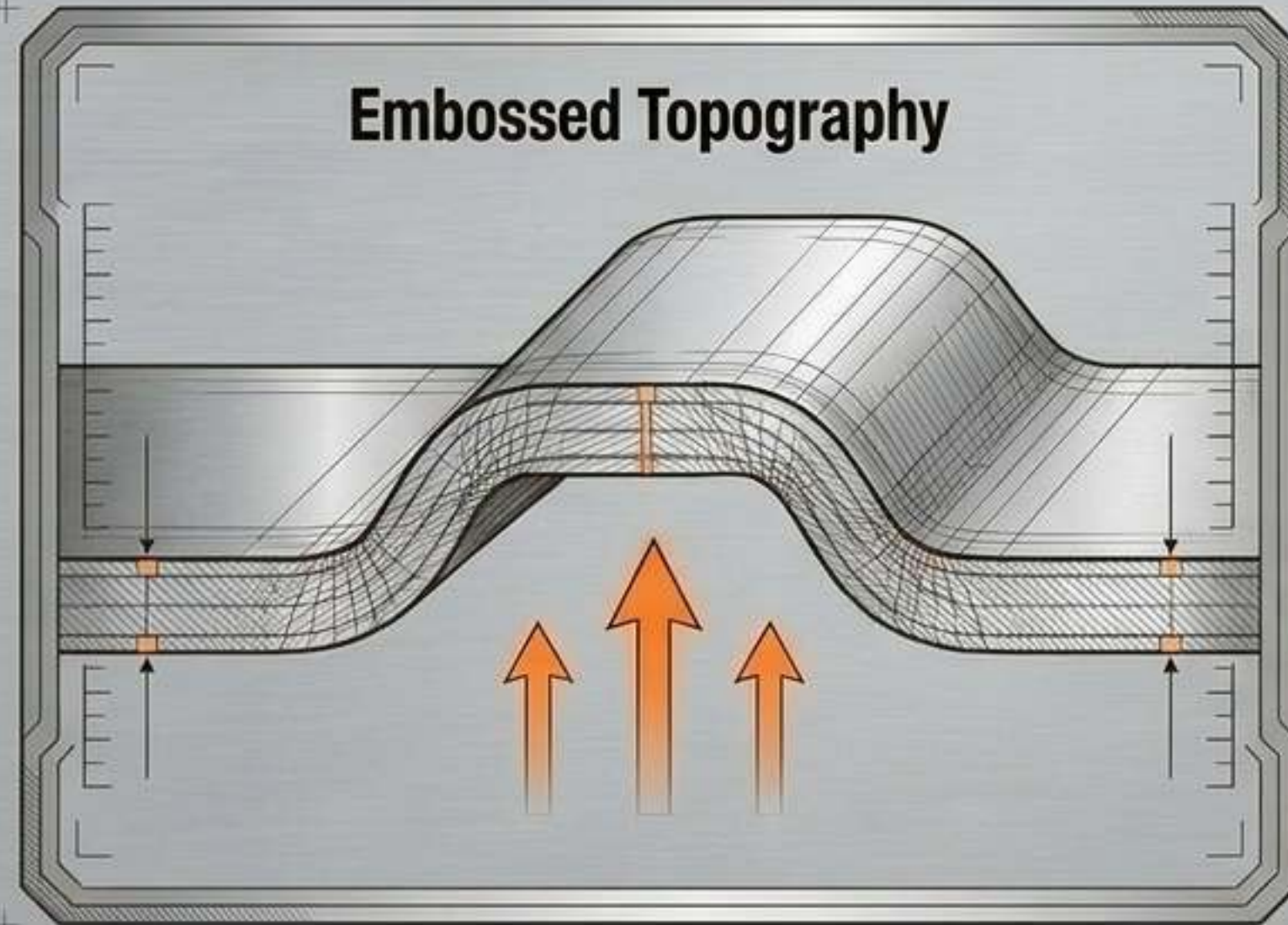


Diagnostic Checklist

When designing for metal, acknowledge that surfaces will show wear differently than paper packaging.

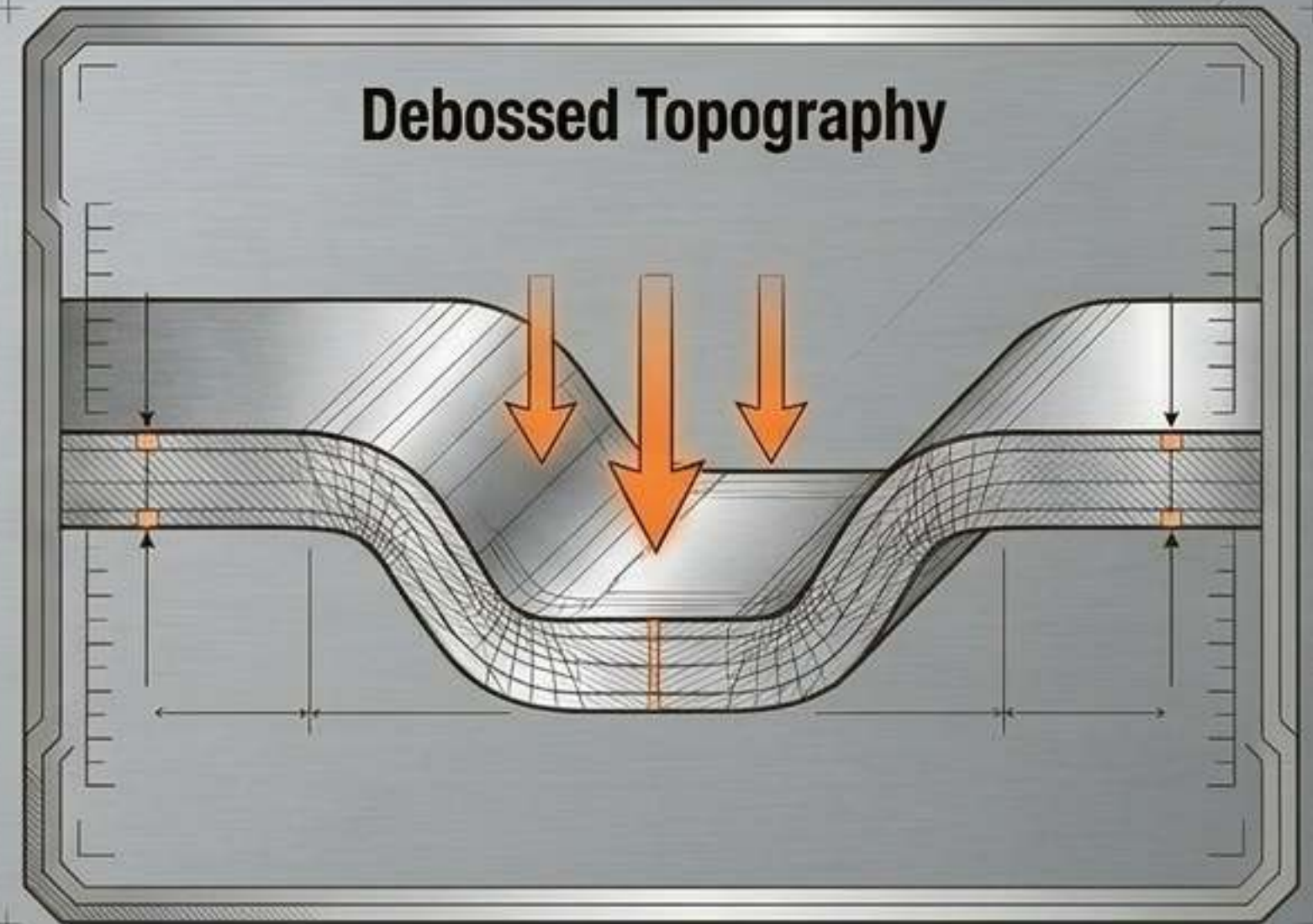
- Communicate explicitly which visible areas of the tin are the most highly sensitive.
- Account for friction points, seams, and alignment differences.
- Ensure critical aesthetic surfaces are protected during handling and transit.

The Embellishment Profiler: Topography on Metal



Embossed Topography

Constraint: Alters internal dimensions; may interfere with inserts or internal product fit if not clearance-tested.

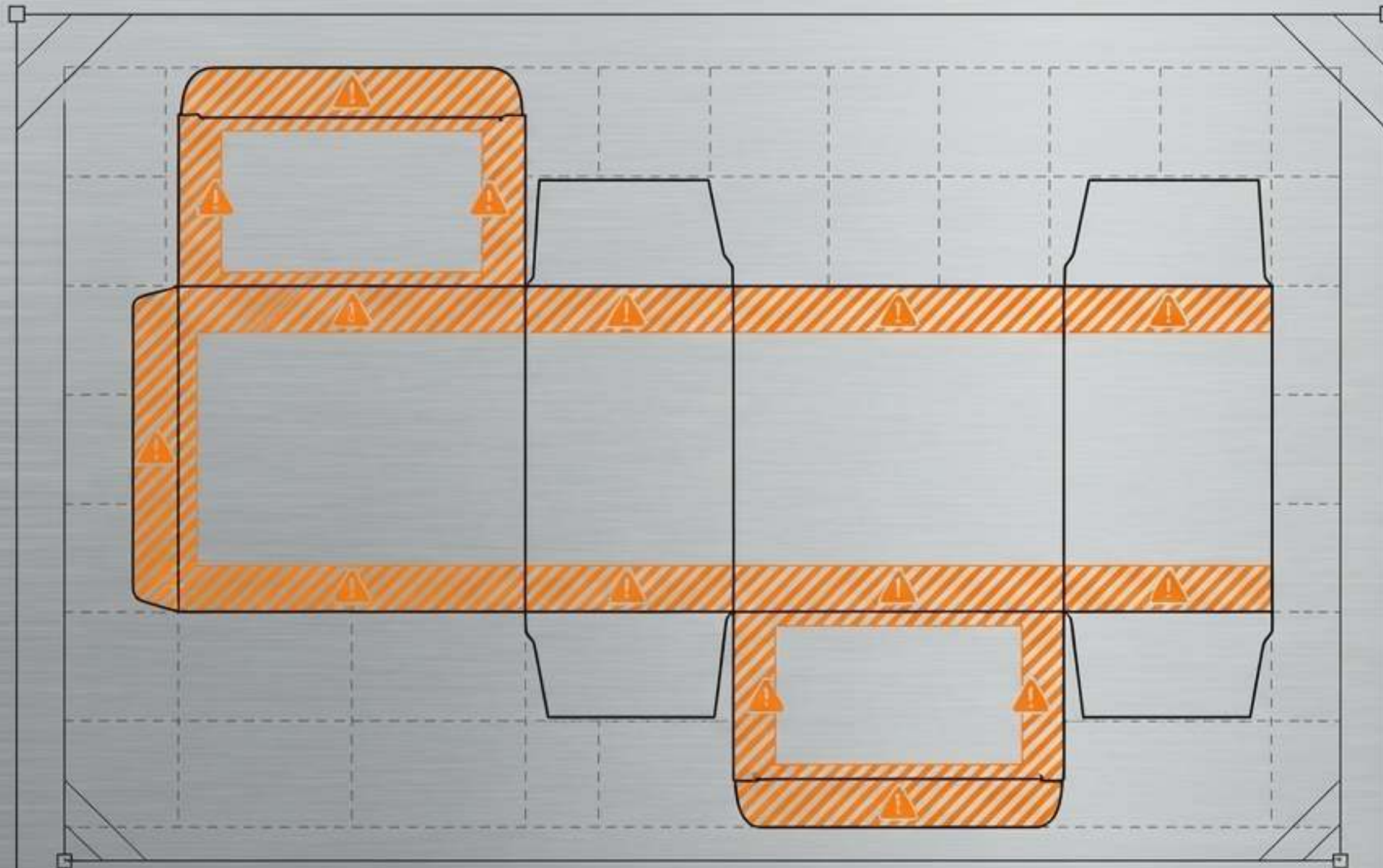


Debossed Topography

Constraint: Reduces internal volume; requires clearance from closure overlaps.

Rule: All embossed or debossed visual concepts must be mapped against structural geometry. Decoration decisions must also state the importance of precise color references (e.g., Pantone matching) on metallic substrates.

Artwork Constraint Map: Preparing Print Specifications



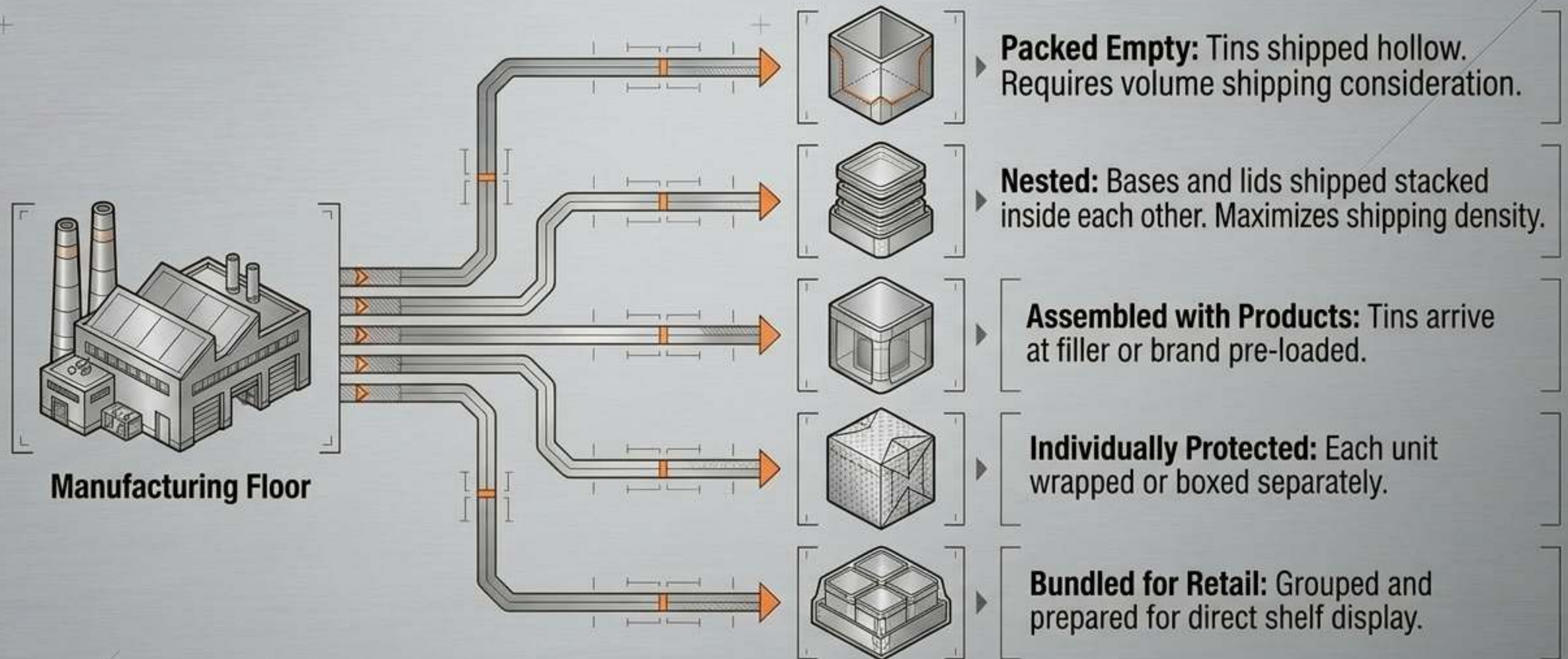
Safety Orange Zones: Seams, corners, hinges, closure overlaps, and requested embossing areas.

Rule: Copy and critical graphics cannot interrupt these marked constraint zones.

Specification Checklist

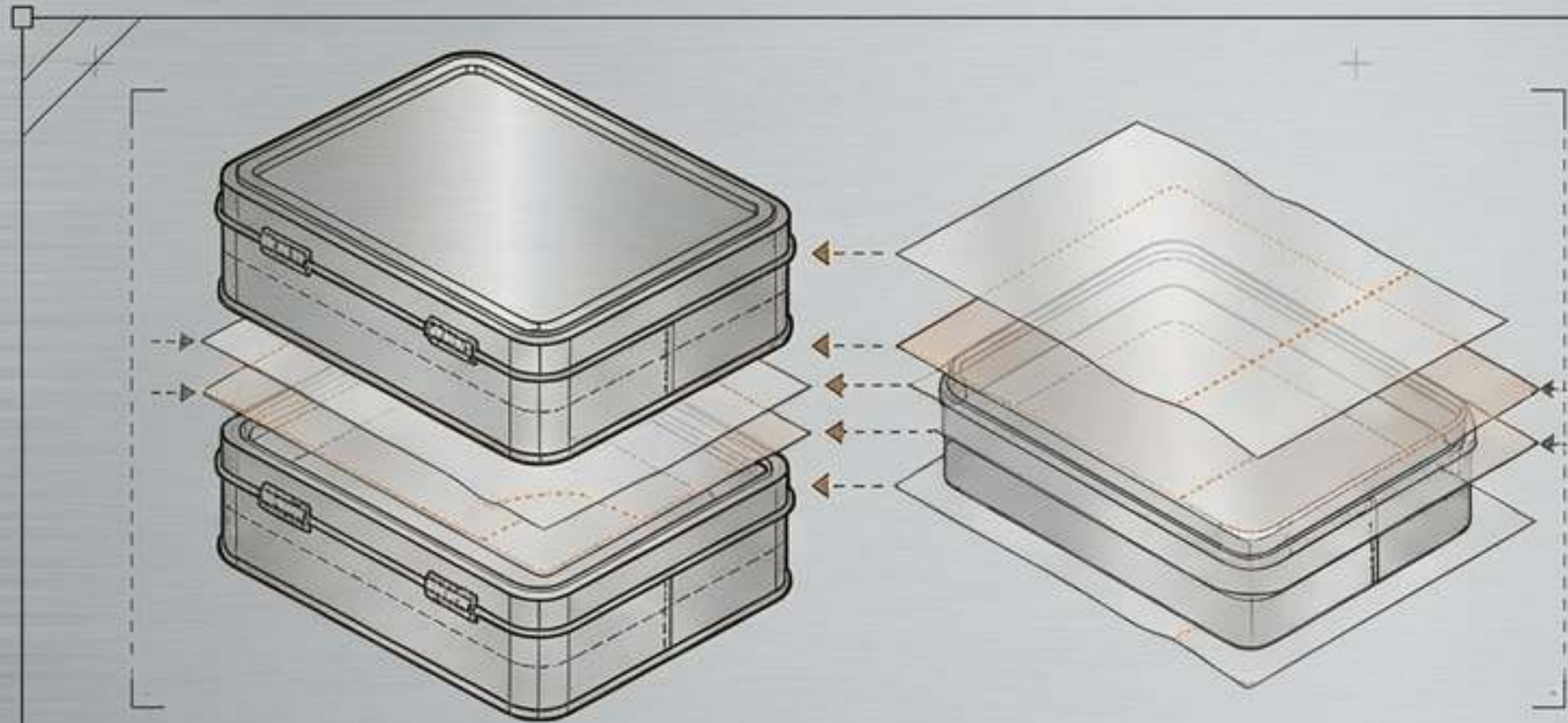
- Provide target internal fit, product dimensions, and reference drawings.
- Supply a component map specifying print for lid, base, hinge, inserts, and labels.
- Ensure print-ready artwork includes orientation notes for every single panel.
- State whether artwork repeats across versions or if interior printing is required.
- Identify mandated label content and whether labels are applied before or after filling.

Defining the Packing Route & Logistics



Quote Rule: Quantities must be specified by shape, size, artwork version, and insert variant against these specific packing routes.

Surface Protection and Assembly Coordination



Interleaving Dependency:
Surface-finish sensitivity (matte vs. gloss) directly dictates the necessary interleaving (protective sheets) and outer packing strength required to prevent transit scuffing.



The Procurement Canvas: Synthesizing the Specification

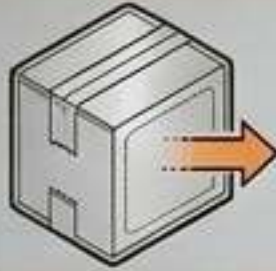


A custom tin box is a complex, multi-component packaging system. Its commercial success depends equally on product fit, closure interaction, surface presentation, and the chosen packing route.

The following **8-step RFQ checklist** translates these variables into a standardized vendor submission format, ensuring accurate quotation, artwork, and material review.

The RFQ Playbook: Form & Fit (Steps 1-4)

01.



Use Case & Contents

Describe the internal contents, the specific use case, and declare whether the tin serves as primary containment or secondary presentation packaging.

02.



Dimensional Priorities

Provide exact target external and internal dimensions, highlighting where precise fit is prioritized over aesthetic form.

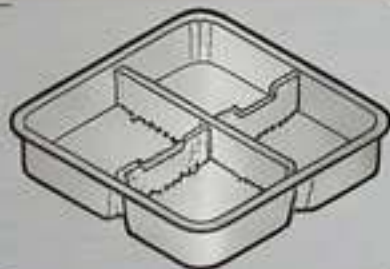
03.



Geometry & Closure

Define the requested primary body shape and explicitly state the desired opening/closure interaction concept.

04.



Retention Strategy

State all requirements for internal inserts, dividers, or product retention systems.

The RFQ Playbook: Finish & Fulfillment (Steps 5-8)

05.



Artwork & Finish Intent

Identify all print surfaces, confirm artwork orientation rules, and declare the visual finish intent (matte/gloss/embossed).

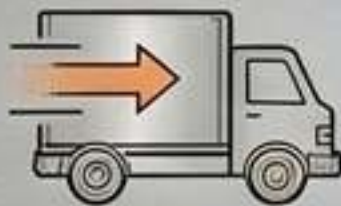
06.



Compliance Flagging

Explicitly flag any direct-product-contact, hermetic sealing, safety, child-resistance, corrosion, or regulatory compliance requirements.

07.



Logistics Routing

State precise unit quantities grouped by design variant, and dictate the empty/filled/nested packing route.

08.



Validation Review

Formally request physical samples and establish the testing review protocols for all critical requirements identified in Step 06.

Commercial Reality and Final Commitments

Final technical and commercial commitments require comprehensive quotation, artwork, and material review.

Content Restrictions & Disclaimers

- This brief is **NOT** a confirmation of sealing capability, food-contact safety, child resistance, or shipping suitability.
- No specific metal type, protective coating, or closure performance metric is guaranteed by initial design alone.
- No minimum orders, pricing structures, or lead times are represented until formalized in quote.

All critical surface, performance, and compliance requirements mandate rigorous physical sample and testing review prior to production approval.

