

Drawing-to-BOM validation protocol

A field-by-field method for checking extracted BOM rows against a controlled drawing.

PURPOSE	Define the expected BOM from a controlled source before testing extraction. Report row acceptance separately from field acceptance.
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Six review controls

CONTROL	WHAT TO VERIFY
Controlled source	Record drawing number, revision, sheet, BOM region and test exclusions.
Expected row	Transcribe the accepted description, specification, size, quantity and source location.
Observed row	Capture the extraction without silently correcting or normalising it.
Field review	Mark each field accepted, corrected, missing, duplicated or unresolved.
Row decision	Accept a row only when mandatory fields and source location satisfy the test rule.
Disclosure	Publish sample size, field definitions, reviewer role, limitations and correction policy.

How to produce a publishable result

A useful benchmark is reproducible and limited to the sample actually tested. Do not convert an illustrative worksheet into a customer claim.

1. Preserve the baseline	Keep a read-only copy of the accepted source and record the job type, dates and scope.
2. Define acceptance	List mandatory fields, allowed normalisation, correction rules and the reviewer role before testing.
3. Run the same sample	Use identical source material, workflow steps and review window for each option or period.
4. Record every exception	Do not silently repair missing, conflicting, duplicated or ambiguous information.
5. Reconcile the result	Report totals and rates from the retained row-level record; keep excluded items visible.
6. Publish limitations	State what the sample cannot demonstrate and identify any commercial relationship.

Required publication disclosure

Include source scope, sample dates, sample size, metric definitions, exclusions, reviewer role, correction policy, limitations, consent status and commercial affiliation. External practitioner review must be credited only after the reviewer approves the published wording.

This protocol is guidance, not a code-compliance certificate, engineering approval or product-performance guarantee.