

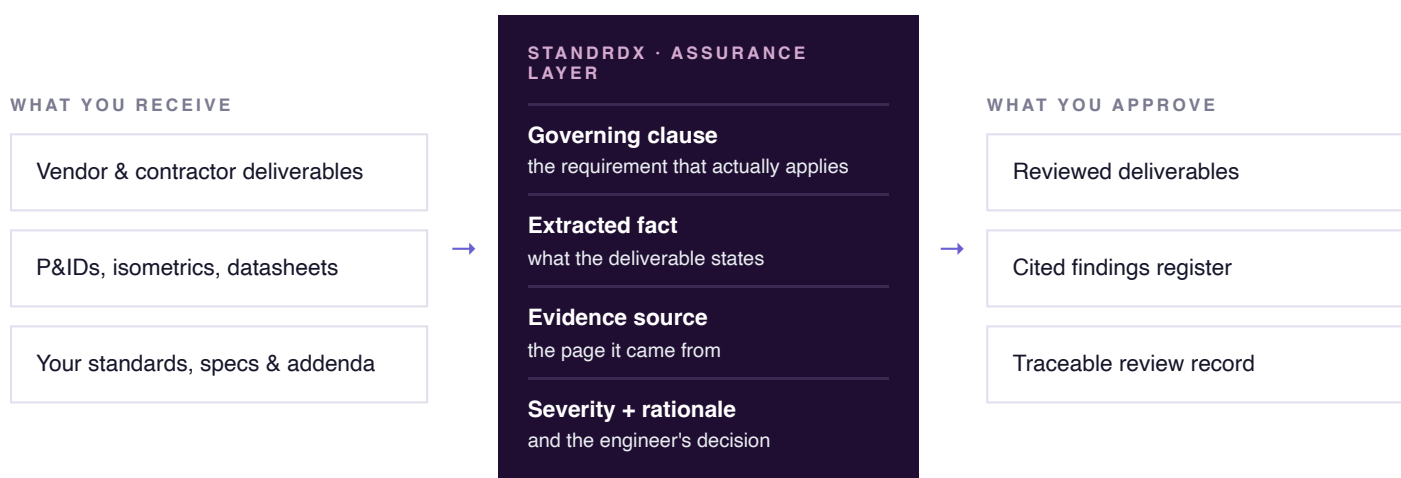
ENGINEERING ASSURANCE FOR EPC & HEAVY CONSTRUCTION

Catch it in the drawing, not on the job site.

standrdX is the engineering assurance platform that validates engineering handoffs against the requirements, standards, specifications, drawings and data that govern them.

The handoff being guarded: vendor and contractor deliverable → owner standard.

01 WHERE STANDRDX FITS



02 THE HANDOFF BEING GUARDED

Assurance across the revision lifecycle.

Engineering deliverables move through revision stages, and at each one they are re-read against a layered set of owner standards, project specifications and the addenda that override them. The further a discrepancy travels, the more it costs to correct.

IFR ISSUED FOR REVIEW	IFA ISSUED FOR APPROVAL	IFC ISSUED FOR CONSTRUCTION	As-Built HANDOVER & AUDIT
Volume builds. Senior engineers spend their time on lookup rather than judgement.	Addendum overrides are missed. The hierarchy is layered and easy to apply wrongly.	Procurement and fabrication. A wrong specification now propagates to site.	Findings must be defensible to the auditor and traceable back to source.

← Caught early · a correction

Caught late · rework, schedule and claim →

A deliverable can be internally correct and still contradict the standard that governs it.

Every review stage re-reads what came before. An issue caught at drawing review is a correction. The same issue found at fabrication or on site is rework, schedule and a claim.

Nothing is wrong on any single page. That is exactly why manual review misses it.

Each discipline validates its own output. Nothing validates the translation between one stage and the next.

01

Review sits on the critical path

Drawings and datasheets are checked by hand against the owner standard and the project specifications that govern them. Review becomes the step everything else waits on.

03

The governing picture is spread across documents

Duty conditions sit in one document, material requirements in a referenced standard, a deviation in an addendum. Assembling the full obligation means opening several.

05

Standards knowledge leaves with the engineer

What a senior discipline reviewer knows lives in their head rather than in a system. When they move on, the same questions are answered again from the beginning.

02

No project runs on one standard

A single scope can invoke an owner standard, several project specifications and a set of addenda at once. Cross-referencing them by hand is slow, and gaps still pass through.

04

Findings return between revisions

A finding cleared at one revision can quietly reappear at the next. Without revision-level comparison, reviewers re-read unchanged content and miss what actually changed.

06

Evidence is assembled after the fact

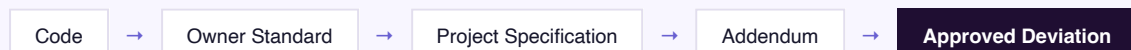
When an owner or auditor asks for the basis of a decision, reconstructing the trail from deliverable to clause to sign-off is a manual exercise.

04 PRECEDENCE

One deliverable. Several standards. One of them governs.

An owner standard says one thing and a project addendum often overrides it. Get the precedence wrong and the review is wrong, however thorough it looks. standrdX resolves which requirement governs, then validates against that one.

standrdX applies precedence across the governing documents to determine which requirement governs.



The owner standard is the client's own standard, and that is the level standrdX assures against. Codes sit in the chain as one input, not as the point of the product.

05 HOW IT WORKS

01

Read the engineering record

Owner standards, project specifications, addenda, datasheets, P&IDs, isometrics and vendor deliverables, from the library you load.

02

Apply precedence

Determine which requirement governs when the governing documents disagree, and carry that decision forward.

03

Validate the handoff

Check each deliverable against the requirement that actually applies, at project scale and at every revision.

04

Engineer decides

Every finding carries its clause and evidence. The engineer reviews, decides and approves. The decision is recorded.

Drawing review

P&IDs, isometrics and layout drawings ingested as project documents and included in a compliance run. Findings are returned clause by clause, with the source quote, a severity and a confidence score reported separately from the verdict, for the reviewer to accept or reject.

Datasheet review

Engineering parameters on vendor and contractor datasheets compared against the project specification and the owner standard, with the governing clause, the extracted fact and the evidence source on every finding.

Revision comparison

2D drawing revision comparison identifies what changed between issues, so review effort goes to the change rather than to re-reading the whole deliverable.

Cross-document validation

Conflicts identified across connected engineering documents, from specification to datasheet to drawing, so a discrepancy can be traced to the stage that introduced it. Scope and document set are established in a bounded engagement.

MAJOR

Isometric ISOM-3204 · Rev 02 · IFC

NON-CONFORMANT

Specified weld class does not meet the pipe specification for the operating service.

GOVERNING CLAUSE	Owner piping standard, welding section § 6.2 Project weld procedure WPS-1204 takes precedence for this joint
EXTRACTED FACT	Weld W-01, line 4"-PG-1102-A1A · weld class as drawn
EVIDENCE SOURCE	ISOM-3204 Rev 02, weld map · project specification PG-1102, rev 3
REVIEWER	Open for engineering decision: approve, reject, or override severity

Illustrative. Severity, clause and evidence are carried on every finding; the engineer holds the decision.

standrdX does the first pass. Your engineers make the call.

Speed without handing over accountability. Every decision is recorded, every approval traceable.

STANDRDX

Reads

Compares

Determines

Finds

Explains

Tracks

Prepares

ENGINEER

Reviews

Decides

Approves

Escalates

Human governance is the design, not a safeguard added afterwards.

Each finding carries the governing clause, the extracted fact and the evidence source, so it can be checked rather than taken on trust.

01

Fewer missed requirements

Requirements are extracted and cited rather than read and transcribed by hand.

03

Precedence applied consistently

Overlapping specifications, codes and addenda resolved by hierarchy rather than by reviewer.

05

Consistency across projects

The same validation logic applies wherever the document was produced and whoever reviewed it.

02

Validation at each handoff

Each output is checked against the source requirement, not against a downstream summary of it.

04

Discrepancies traced to source

Findings identify the stage that introduced the issue, not simply that one exists.

06

Reviewable by default

The review record is a by-product of the review, not an exercise assembled afterwards.

10 WHY IT IS DIFFERENT

ADJACENT CATEGORY

Requirements management

Quality management systems

Extraction and reconciliation

Code-checking services

WHERE IT STOPS

Stores what was written. It does not verify that the requirement survived the translation.

Record the discrepancy after someone finds it. standrdX catches it at the handoff. The two are complementary.

Stops at the flagged conflict, without ruling on which requirement governs.

standrdX assures your requirement against the standards you set. Codes are one input among several.

11 WHAT THE PLATFORM PROVIDES

Platform. Multi-tenant SaaS with role-based access control, enterprise sign-in through Microsoft Entra ID, and full action logging. **Inputs.** PDF documents and engineering drawings, with 2D drawing revision comparison. **Outputs.** Findings and reports exported to PDF and Excel.

Governance. standrdX is evidence-backed and human-governed. It does not make engineering decisions or replace engineering judgment.

12 NEXT STEP

Prove it on your standards, your documents.

See standrdX run against your own owner standards, project specifications and deliverables, and judge the findings the way your discipline reviewers would.

GET IN TOUCH

hello@standrdx.com

Email us to arrange a demo or talk to an expert.