

— DOCUMENT · QA / QC · SHEET A

Automated document quality checks for *construction.*

Validate naming, metadata, and PDF content across every Autodesk Forma project — on a schedule, in minutes, without spreadsheets.

PROJECT	FOREMAN · QA / QC
SHEET	00 / 16
REV	C
SCALE	NTS
DRAWN	FOREMAN STUDIO
APPROVED	2026.04

FOREMAN · FOR



— TODAY · SHEET B

The job is *checking*, not
designing.

Document Controllers and QA Managers spend hours every week opening files one by one — comparing names, ticking metadata fields, checking that the PDF title block matches what's on disk.

It's the wrong work for the people doing it, and almost nothing gets caught until handover or audit.

PENDING REVIEW

Six things every document controller has *dealt with*.

REGISTER · 001

PAIN · 01

Files with wrong naming conventions.

Thousands of documents uploaded inconsistently. Nobody catches it until handover.

PAIN · 02

Missing metadata fields.

Document Status, Suitability, Discipline left blank. No way to enforce completion.

PAIN · 03

Title block doesn't match metadata.

The PDF says Rev C, the file says Rev B. Mismatches go unnoticed until audit.

PAIN · 04

Missing or extra deliverables vs. register.

MIDP says 247, you have 232 — and 5 extras nobody planned for. A full day to reconcile.

PAIN · 05

Codes not on the approved list.

An originator code, discipline, or suitability slips through. Hard to spot at scale.

PAIN · 06

Manual spot-checks taking hours.

Open file, check name, check metadata, log result. Repeat. Every week.

— COST · SHEET C

The math of *manual QA*.

Industry rule of thumb: ~3 minutes per file to open, check naming, check metadata, check title block, log the result. Plus ~20 minutes per batch for reporting.

PER FILE

~3min

opened, checked, logged.

PER PROJECT · WEEKLY

Hours

→ days / month

— SOLUTION · SHEET D

Foreman validates *naming, metadata, and PDF content* — automatically.

RULE TYPES

12

RULE SETS · BUILT IN

7

OCR LANGUAGES

15

SHEET VARIANTS

A0–A4

Three steps to *automated* document quality.

01 · STEP ONE

Define Rules

Start with seven built-in rule sets — naming, metadata, content, register compliance, cross-field. Clone and customise, or build from scratch. AI generates regex from example filenames.

02 · STEP TWO

Run Checks

Manually, on a schedule, or auto-triggered when files change in Autodesk Docs. Forma folders or local upload. Combine rule sets in one run, or assign different sets per folder.

03 · STEP THREE

Review & Act

Interactive dashboard. Track violation status from Open to Resolved. Push to Forma Issues in one click. Export CSV, Excel, or branded PDF reports.

A rule for *every* kind of validation.

CATALOGUE · 001

CAT · 01 · 5 RULES

File & Metadata

RULE · 01

Naming Convention

Validate names against regex. AI generates patterns from examples.

RULE · 02

Required Metadata

Mandatory attributes populated across every file.

RULE · 03

Allowed Values

Restrict a field to a predefined list. Catch typos.

RULE · 04

File Format

Block unexpected extensions in controlled folders.

RULE · 05

Freshness

Detect stale files not updated within a period.

CAT · 02 · 4 RULES

Lists & Ranges

RULE · 01

List Validation

Check filename, metadata, or zone text against an approved list.

RULE · 02

Numeric Range

Min/max with optional zero-padding.

RULE · 03

Register Cross-Reference

Bidirectional MIDP/TIDP — flags missing AND unexpected.

RULE · 04

Segment Consistency

Conditional cross-field rules (if discipline = ST, originator must be approved).

CAT · 03 · 3 RULES

PDF Content

RULE · 01

Content Match

Cross-validate zone text against CDE metadata — exact, contains, or date.

RULE · 02

Content Convention

Validate zone content against regex, or verify zone has content.

RULE · 03

Content Extraction

Extract text for reporting and audit — data capture only.

MIX & MATCH ACROSS CATEGORIES IN A SINGLE CHECK.

— PDF ZONES · SHEET F

Extract text from *any part* of a document.

- 01 **Visual zone editor.** Draw rectangles on title blocks, revision tables, approval stamps. Multi-page templates, reusable across projects.
- 02 **Live preview.** See exactly what text is captured before you save the rule.
- 03 **Auto-detect text vs scanned.** Native extraction for digital PDFs, OCR for scanned. You never have to choose.

DWG-STR-001-REV-C.PDF · PAGE 1

ZONE · TITLE BLOCK	
PROJECT	BRIDGE PHASE 2
DRAWING	DWG-STR-001
REV	C

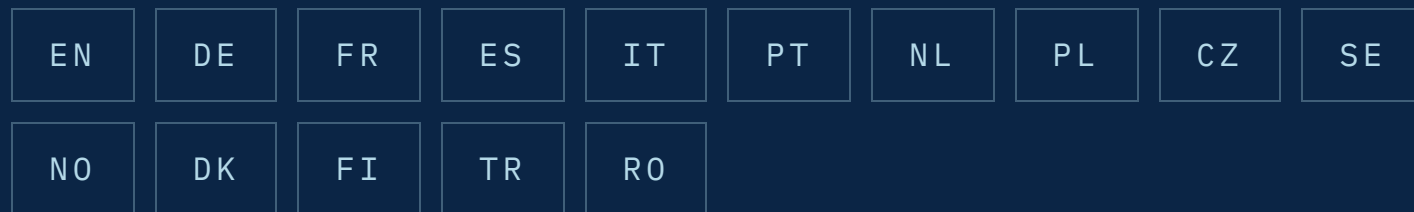
— COVERAGE · SHEET G

Scanned drawings count too.

OCR · 15 LANGUAGES

Tesseract OCR, auto-detected.

Native text-layer extraction for digital PDFs, OCR for scanned. Foreman picks per file — you never have to choose.



SHEET VARIANTS · A0 / A1 / A3 / ARCH D

One template. Every sheet size.

Define zones once; Foreman re-anchors them per sheet size. The right variant is matched automatically by page dimensions during checks.



— AI BUILDER · SHEET H

Naming rules *without regex.*

Paste an example filename. One click.
Foreman generates the pattern that
captures your naming convention.

PASTE · GENERATE · TEST

EXAMPLE FILENAME

DWG-STR-001-Rev-C.pdf

GENERATED PATTERN

DWG - `[A-Z]{3}` - `\d{3}` -Rev- `[A-Z]` \.pdf

✓ MATCH DWG-STR-001-Rev-C.pdf

— AUTOMATION · SHEET I

Set it *and forget it.*

WHK **Webhook triggers.** QA runs when files are added or modified in Autodesk Docs. No manual run.

DBC **Smart debouncing.** Batch uploads grouped into one check — no duplicate runs.

SCH **Schedules.** Visual day-of-week toggles, time picker, timezones. No cron syntax.

EML **Email digests.** Pass/fail summary on completion. Failure alerts on by default.

QA-CHK · COMPLETE

PASS RATE 87%

Bridge Extension Phase 2

142

PASSED

18

FAILED

3

WARNINGS

TOP VIOLATIONS

Naming convention

11 FILES

Missing metadata

5 FILES

Content mismatch

2 FILES

— END-TO-END · SHEET J

From finding to fixing — *without leaving the loop.*



01 DETECT
QA finds violations
 Foreman runs the check, flags the file + rule.

02 PUSH
One click to Forma Issues
 One issue per violation. AI drafts title & description on demand.

03 ASSIGN
Routed to project members
 Owner, due date, all the standard Forma fields.

04 RESOLVE
Closed in Forma
 Team works in the tool they're already in.

05 AUTO-SYNC
Status flows back
 Reopen in Forma and Foreman knows about it next run.

— RESULTS · SHEET K

Full visibility into *every check.*

DSH **Dashboard.** Six interactive charts — violations by rule, time, folder, file type, repeat failures, time-saved.

STA **Status workflow.** Open · Acknowledged · Waived · Resolved.

EXP **Export.** CSV, Excel, branded PDF with your logo.

HUB **Hub roll-up.** Compare projects on one chart. Spot recurring offenders.

PASS RATE · ALL PROJECTS

7 DAYS

91%



TIME SAVED · THIS QUARTER

412 hrs

Estimated at ~3 min per file plus ~20 min per batch report. Calculated automatically per check run.

Run checks on *day one*.

CATALOGUE · BUILT-IN

RULE SETS · 7

Built-in rule sets

SET · 01

ISO 19650 Naming (Full)

BS EN ISO 19650 with status & revision codes.

SET · 02

ISO 19650 Naming (Core)

7 core fields, no status/revision.

SET · 03

Basic Naming Hygiene

No spaces, no specials. Works with any standard.

SET · 04

Document Register Compliance

Discipline, originator, form code lists + MIDP demo.

SET · 05

Cross-Field Validation

Discipline-to-originator, form-to-discipline pairing.

SET · 06

Metadata Quality

Required fields, allowed status, freshness.

SET · 07

PDF Title Block Validation

Cross-validate drawing numbers and revisions between PDF zones and CDE metadata.

VALIDATION LISTS · 5

ISO 19650 lists

LIST · 01

ISO 19650 Discipline Codes

24

LIST · 02

ISO 19650 Suitability Codes

23

LIST · 03

ISO 19650 Form Codes

26

LIST · 04

Sample Originator Codes

10

LIST · 05

Example MIDP Register

20

CLONE ANY BUILT-IN SET · ADJUST PATTERNS · COMBINE IN ONE RUN.

Hours per project, every week — *or minutes.*

LEDGER · 001

TASK	WITHOUT FOREMAN	WITH FOREMAN
QUALITY CHECKING	Manual spot checks	Automated, multi-rule-set per check
NAMING CONVENTION	Inconsistent standards	Enforced patterns + AI regex
METADATA COMPLETENESS	Missed fields	Required-field validation
PDF CONTENT	No content validation	Zone extraction + OCR + size variants
PRE-UPLOAD CHECK	Check after upload only	Local file QA before pushing to Forma
REACTING TO CHANGES	Manual re-checks	Auto-triggers on file change
TIME PER PROJECT	Hours per week	Minutes across every project

Stop approving documents manually. *Let Foreman do it.*

Automated naming, metadata, and content checks across every Autodesk Forma project — no spreadsheets, no checklists.

START 14-DAY TRIAL →

BOOK A WALKTHROUGH

14-DAY TRIAL · FULL ACCESS · NO CARD ON FILE

PENDING REVIEW · QA-CHK · 001