



Steel Fabrication Quality Control Checklist

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Display Style
Default 

Material Receipt and Inspection

Verification of incoming steel materials against specifications and documentation.

Date of Material Receipt

Enter date...

Material Order Number

Enter a number...



Supplier Name

Write something...

Material Type (e.g., A36, A572)

- ☐ A36
- ☐ A572 Grade 50
- ☐ A572 Grade 50 HPS 70W
- ☐ Other (Specify)

Material Thickness (inches)

Enter a number...

Material Width (inches)

Enter a number...

Material Condition (e.g., Normalized, Hot Rolled)

- ☐ Hot Rolled
- ☐ Normalized
- ☐ Cold Drawn
- ☐ Other (Specify)

Notes/Discrepancies Observed

Write something...

Material Certification Received?

☐ Yes

☐ No

Upload Material Certification (if applicable)

 Upload File

Shop Drawings and Fabrication Plans

Review and approval of shop drawings and fabrication plans for accuracy and completeness.

Shop Drawing Approval Status

☐ Approved

☐ Rejected

☐ Pending Revision

Revision Notes (if applicable)

Write something...

Shop Drawing PDF

 Upload File

Shop Drawing Revision Number

Enter a number...

Fabrication Plan Review Status

- ☐ Approved
- ☐ Rejected
- ☐ Pending Revision

Discrepancies or Concerns Identified in Drawings/Plans?

Write something...

Date of Shop Drawing Approval

Approved By (Name)

Cutting and Preparation

Inspection of steel cutting, beveling, and surface preparation.

Material Thickness (mm)

Cutting Angle Deviation (degrees)

Cutting Method

- ☐ Plasma
- ☐ Oxy-Fuel
- ☐ Laser
- ☐ Saw

Surface Condition After Cutting

- ☐ Smooth
- ☐ Dagger Edge
- ☐ Rough
- ☐ Burr Present

Notes on Surface Condition or Defects

Write something...

Upload Photo of Cut Edge

 Upload File

Bevel Angle (if applicable)

- ☐ Not Applicable
- ☐ As Per Drawing
- ☐ Deviation Observed

Welding

Verification of welding procedures, welder qualifications, and weld quality.

Welder ID

Enter a number...

Welding Process Used

- ☐ SMAW (Stick)
- ☐ GMAW (MIG)
- ☐ GTAW (TIG)
- ☐ FCAW (Flux-Cored)
- ☐ Other (Specify in LONG_TEXT)

If 'Other' welding process, please specify:

Write something...

Welding Current (Amps)

Enter a number...

Welding Voltage (Volts)

Enter a number...

Interpass Temperature (°C)

Enter a number...

Welding Procedure Specification (WPS) Reference

- ☐ WPS-001
- ☐ WPS-002
- ☐ WPS-003
- ☐ Other (Specify in LONG_TEXT)

If 'Other' WPS, please specify:

Write something...

Visual Inspection Criteria (Check all that apply)

- ☐ Complete Fusion
- ☐ No Undercut
- ☐ No Slag Inclusions (SMAW/FCAW)
- ☐ Proper Weld Profile
- ☐ No Porosity
- ☐ Sound Weld
- ☐ Other (Specify in LONG_TEXT)

Specify any visual inspection findings:

Write something...

Fitting and Assembly

Inspection of the fit-up and assembly of steel components.

Component Fit-Up Gap (Max. Allowable)

Enter a number...

Alignment Verification (Select all that apply)

- ☐ Plumb
- ☐ Level
- ☐ Square
- ☐ True
- ☐ Other (Specify in LONG_TEXT)

Details of 'Other' Alignment Verification (if applicable)

Write something...

Number of Bolted Connections Verified

Enter a number...

Bolt Alignment - Correct?

- ☐ Yes
- ☐ No

Details of Bolt Alignment Issues (if 'No' selected)

Write something...

Component Interference?

☐ Yes

☐ No

Details of Component Interference (if 'Yes' selected)

Write something...

Attach Photos of Fit-Up & Assembly

 Upload File

Dimensional Accuracy

Verification of dimensions against shop drawings and tolerances.

Length Verification (Member A)

Enter a number...

Width Verification (Member B)

Enter a number...

Thickness Verification (Plate C)

Enter a number...

Angle Verification (Angle D)

Enter a number...

Radius Verification (Round Bar E)

Enter a number...

Tolerance Compliance (Overall Assembly)

- ☐ Within Tolerance
- ☐ Outside Tolerance - Record Deviation
- ☐ Not Applicable

Notes/Comments on Dimensional Accuracy

Write something...

Attach Dimensional Verification Photos (If Needed)

 Upload File

Surface Treatment & Painting

Inspection of surface preparation, coating application, and paint quality.

Surface Preparation Method

- ☐ Sandblasting
- ☐ Grinding
- ☐ Wire Brushing
- ☐ Chemical Cleaning

Surface Profile (Mil)

Enter a number...

Primer Type

- ☐ Epoxy
- ☐ Zinc-Rich
- ☐ Alkyd
- ☐ Other (Specify)

Primer Details (if 'Other' selected)

Write something...

Dry Film Thickness (DFT) - Minimum (mil)

Enter a number...

DFT Gauge Calibration Certificate

 Upload File

Topcoat Type

- ☐ Acrylic
- ☐ Polyurethane
- ☐ Epoxy
- ☐ Other (Specify)

Topcoat Details (if 'Other' selected)

Write something...

Date of Painting

Enter date...

Inspector Signature

Bolting & Fastening

Verification of bolt quality, size, torque, and proper installation.

Bolt Diameter (inches)

Enter a number...

Bolt Grade/Strength

Enter a number...

Target Torque Value (ft-lbs)

Enter a number...

Actual Torque Value (ft-lbs)

Enter a number...

Torque Application Method

- ☐ Manual
- ☐ Hydraulic
- ☐ Air Impact

Bolt Condition (select all that apply)

- ☐ Clean
- ☐ No Rust
- ☐ No Damage
- ☐ Correct Grade Markings
- ☐ Proper Lubrication

Was a calibrated torque wrench used?

- ☐ Yes
- ☐ No
- ☐ N/A

Any unusual observations during bolting?

Write something...

Identification & Marking

Confirmation of proper identification and marking of fabricated steel members.

Component Identification Number

Write something...

Drawing Revision Number

Write something...

Quantity Marked

Enter a number...

Marking Method Used

- ☐ Stenciling
- ☐ Etching
- ☐ Welding
- ☐ Tagging

Marking Location(s)

- ☐ Edge
- ☐ Center
- ☐ Visible Surface
- ☐ All Surfaces

Photograph of Marking (Optional)

 Upload File

Documentation & Record Keeping

Review of fabrication records, welder certifications, and inspection reports.

Welder Qualification Certificates

 Upload File

Material Mill Certificates

 Upload File

Summary of Non-Conformances & Corrective Actions

Write something...

Number of Certified Welders

Enter a number...

Date of Last Internal Audit

Enter date...

Audit Type (Internal/External)

- ☐ Internal
- ☐ External

Record of Deviations from Approved Fabrication Drawings

Write something...

Inspector Signature
