

Steel Fabrication Quality Control Checklist

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	
Cappiler Hame	
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	
Naterial 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 No	
Jpload Material Certification (if applicable)	
♣ Upload File	

Shop Drawings and Fabrication Plans

completeness.	
Shop Drawing Approval Status	
Approved	
Rejected	
Pending Revision	
Revision Notes (if applicable)	
Write something	
Shop Drawing PDF	
Shop Drawing Revision Number	
Enter a number	
Fabrication Plan Review Status	
Approved	
Rejected	
Pending Revision	
Discrepancies or Concerns Identified in Drawings/Plans?	
Write something	

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

Date of Shop Drawing Approval	
Enter date	
Approved By (Name)	
Write something	
Cutting and Preparation	
spection of steel cutting, beveling, and surface prepar	ation.
Material Thickness (mm)	
Enter a number	
Cutting Angle Deviation (degrees)	
Enter a number	
Cutting Method	
Cutting Method Plasma	
_	
Plasma	

Surface Condition After Cutting Smooth Dagger Edge Rough Burr Present
Notes on Surface Condition or Defects
Write something
Upload Photo of Cut Edge L 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
Wolding Current (Amno)
Welding Current (Amps)
Enter a number
Welding Voltage (Volts)
Enter a number
Interpass Temperature (°C)
Enter a number
Welding Procedure Specification (WPS) Reference
☐ 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	
itting and Assembly	
spection of the fit-up and assembly of steel components.	
Component Fit-Up Gap (Max. Allowable)	

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	
erification 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	
Litter a number	
Angle Verification (Angle D)	

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)
4 Upload File
Conformation of Continue
Surface Treatment & Painting
nspection 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
Ероху
Zinc-Rich
Alkyd Other (Specify)
Other (Speeliy)
Primer Details (if 'Other' selected)
Write something
Dry Film Thickness (DFT) - Minimum (mil)
Enter a number
DFT Gauge Calibration Certificate
La Upload File
Topcoat Type
Acrylic
Polyurethane
Cthor (Specify)
Other (Specify)

Write something	
Date of Painting	
Enter date	
Inspector Signature	
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rification of bolt quality, size, torque, and proper install Bolt Diameter (inches) Enter a number	ation.
olting & Fastening rification of bolt quality, size, torque, and proper install Bolt Diameter (inches) Enter a number Bolt Grade/Strength Enter a number	ation.
Bolt Diameter (inches) Enter a number Bolt Grade/Strength	ation.

Actual Torque Value (ft-lbs)
Enter a number
Torque Application Method Manual Hydraulic Air Impact
Bolt Condition (select all that apply) Clean No Rust 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	
Stephing Welding	
Marking Location(s)	
Edge	
Center	
Visible Surface All Surfaces	
Photograph of Marking (Optional)	
♣ Upload File	

Documentation & Record Keeping

eview of fabrication records, welder certifications, and inspectio	n reports.
Welder Qualification Certificates	
♣ Upload File	
Material Mill Certificates	
4 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	S
Write something	

Inspector Signature		