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Steel Material & Fabrication Inspection Checklist | Ensure Safety

Use our comprehensive checklist to inspect steel materials and fabrication, ensuring compliance and safety before erection. Start your inspection today!

Project:	
Date:	
Filled by:	

Material Compliance Check	
1	Verify all steel materials have correct certifications and comply with relevant standards (e.g., ASTM, ISO).
2	Inspect steel materials for any visible defects such as rust, cracks, or deformities.
3	Perform mechanical tests to confirm tensile strength and other physical properties.
4	Ensure the correct material grade is used according to design specifications.

Fabrication Inspection	
5	Check all steel dimensions and ensure they meet the specified tolerances.
6	Inspect welds for quality and consistency using visual and non-destructive methods.
7	Review surface treatments for uniform application and compliance with specifications.
8	Ensure all components are fabricated according to the approved design plans.

Pre-Erection Preparation	
9	Verify that all required steel components and assemblies are available on site.
10	Inspect all components for any transport damage or corrosion.
11	Ensure proper storage conditions to prevent corrosion and maintain material integrity.
12	Confirm all assembly instructions are clear and have been followed correctly.

Documentation and Review	
13	Document all inspection findings, noting any deviations or non-compliance issues.
14	Provide detailed reports of any issues and corrective measures taken.
15	Review the inspection report with the construction team to ensure all issues are resolved.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
Ensuring the quality and safety of steel materials and their fabrication is crucial before erection in any construction project. This comprehensive checklist provides detailed steps to assess the integrity, compliance, and suitability of steel components. By following this guide, inspectors and construction professionals can identify potential issues early, ensure adherence to industry standards, and ultimately contribute to the longevity and safety of the structure being erected.	1. Gather all documentation related to steel materials and fabrication, including certifications and design plans. 2. Conduct a thorough visual and physical inspection of steel materials, checking for compliance with standards. 3. Verify all fabrication processes against the design specifications, focusing on welds, dimensions, and treatments. 4. Document all findings and discrepancies, providing detailed reports for any issues discovered. 5. Review the complete inspection report with the construction team to ensure all issues are addressed before erection.