Materials Manufacturing and Quality Control

SSP DC 03 | Version 1.0 | 14 October 2026

SSP agrees the drawing revision, material requirements, welding controls, coating specification and inspection scope before manufacture. This overview describes the main controls and documents that can be included in an order.

Materials and traceability

Common steel grades include Q235B, Q355B and Q460 series. The specified product form, thickness, chemical composition, mechanical properties, impact requirements and weldability are reviewed for the intended component. Material test certificates and heat or batch identification support traceability within the agreed scope.

Materials specified under different national standards are assessed against the actual purchase requirements. Similar strength does not, by itself, establish full equivalence or approval for substitution.

Fabrication and welding

- Review component dimensions, connection interfaces and the production drawing revision.
- Check material identity, preparation and fit-up before welding.
- Select the applicable welding procedure and verify personnel qualifications for the process and position.
- Inspect weld appearance and finished dimensions; carry out additional testing where the drawing or inspection plan requires it.
- Record and resolve nonconformities before release.

Hot dip galvanizing

Fabricated components can be hot-dip galvanized after welding. A commonly discussed SSP production target is an average coating thickness of at least 85 micrometres. The purchase specification must define the applicable standard, local and average thickness requirements, sampling and repairs for the actual component.

Where EN ISO 1461, ASTM A123/A123M, AS/NZS 4680 or another standard is specified, acceptance is reviewed against the nominated standard and product category. A coating thickness alone does not establish design life in a particular soil or exposure condition.

Certification and supporting documents

Company certification and project acceptance serve different purposes. Certification documents identify the named company, scope and period of validity. The final product and project requirements are defined by the order, approved drawings and applicable local approval process.

CWB company certification

The available CWB documents name Structured Screw Flight China Ltd., company code STRSC1, certified to CSA W47.1, Division 3. The validation letter states a period from 6 July 2026 to 23 February 2027. Its scope includes fabrication and welding of helical screw piles and accessories, drilling augers, screw conveyor shafts and solar panel mounting structures.

The original certificate and validation letter are available as a separate download. CWB company certification addresses welding qualification within its stated scope; project specifications and local engineering requirements still apply.

Order documentation

Document group	Examples agreed for the order
Materials	Material test certificates and heat or batch traceability.
Welding	Applicable WPS and qualification documents; personnel qualifications and required inspection records.
Dimensions and coating	Dimensional inspection, coating thickness and appearance or repair records.
Release and shipping	Final inspection, packing list, identification and packing photographs.
Engineering support	Manufacturing drawings and agreed calculation or selection submissions for review.

Project requirements and document review

Please identify the destination market, specified standards, third-party inspection requirements and required quality documents at enquiry stage. ISO 9001 and applicable CE-related documentation can be requested for review against the relevant company and product scope.

Any inspection hold points, testing scope and third-party witness arrangements should be agreed before production. Final project design and local approval remain with the customer and its appointed professionals.

Contact ryanzhang@ssppile.com for a project-specific document list.