

Quality Control Process

FENIER operates a 4-stage quality control process from raw material to pre-shipment. Every container ships with full QC documentation.

Stage 1 - Incoming Material Inspection

All incoming 304 stainless steel coil/plate undergoes PMI (Positive Material Identification) testing via handheld XRF analyzer. SGS-verified certificates accompany every batch. Materials failing PMI are rejected and quarantined.

Stage 2 - In-Line Production QC

Inspection at 5 checkpoints: (1) laser cut accuracy $\pm 0.2\text{mm}$, (2) CNC bend angle $\pm 0.5^\circ$, (3) robotic weld penetration 100% (visual + ultrasonic), (4) surface pre-treatment cleanliness, (5) powder-coat thickness 60-80 micrometer. Failed pieces reworked or scrapped.

Stage 3 - Final Assembly QC

Every completed cabinet passes a 12-point final inspection: dimension check, weld seam inspection, finish uniformity, hardware operation test (50 open/close cycles), drawer slide smoothness, door alignment, shelf level, leveling leg torque, accessory completeness.

Stage 4 - Pre-Shipment Random Inspection

AQL 1.5 sampling inspection per ISO 2859-1. 32 pieces per container randomly selected for full functional test. Random salt-spray test on 2% of containers. Pre-shipment photos: cabinet, packing, container loading, container seal.

Testing Certifications

Salt-spray test: ASTM B117, 1,000+ hours. UV test: ASTM G154, 500+ hours. Adhesion: ASTM D3359, 5B rating. Weld strength: 300+ MPa tensile. Load test: 500N static. Cycle test: 100,000 cycles.

Sample Reports Included with Every Shipment

(1) Raw material SGS certificate. (2) In-line QC reports. (3) Pre-shipment random inspection report with photos. (4) Salt-spray test result. (5) ISO 9001:2015 facility certificate. (6) Third-party inspector welcome at factory.