
STRUCTURAL INTEGRITY TEST REPORT

Silo Structural Assessment

Facility: Sample Facility Pvt. Ltd.

Test Date: Sample | Brag Systems Engineering

Structural Test Parameters

TEST ITEM	RESULT	FINDING
Anchor bolt torque check	PASS	All bolts within spec — 220-260 Nm range verified across 24 points.
Foundation settlement survey	MONITOR	4mm settlement recorded at south quadrant — within safe tolerance, flagged for next-cycle recheck.
Shell plate thickness (ultrasonic)	PASS	Minimum 2.8mm across all rings — no corrosion-related thinning detected.
Wind load compliance	PASS	Structure rated to 145 kph — matches regional wind zone requirement.
Seismic zone compliance	PASS	Design verified against UBC Zone 3 / Indian Seismic Zone 4 requirements.
Roof truss & rafter inspection	PASS	No deformation or fatigue cracking observed at load points.

Reference: Allowable Storage Time (Corn)

Temp (°C)	18% Moisture	20% Moisture	22% Moisture	24% Moisture	30% Moisture
-1°C (30°F)	648 Days	321 Days	190 Days	127 Days	61 Days
10°C (50°F)	128 Days	63 Days	37 Days	25 Days	12 Days
21°C (70°F)	31 Days	16 Days	9 Days	5 Days	3 Days
27°C (80°F)	17 Days	9 Days	5 Days	4 Days	2 Days

Data source: Allowable storage time for aerated shelled corn before 0.5% dry matter loss.

Engineering Sign-Off

This is a sample document illustrating Brag Systems' structural integrity test report format. Actual client reports include full engineer sign-off, measured data points, and site-specific photographs.

SAMPLE