

Glider Measurements Reference

Name:

Date:

Period:

Use this card while measuring. It tells you exactly what each measurement means and which tool to use.

Part	Measurement	What to Measure	Best Tool
VERTICAL STABILIZER	Maximum height	Measure from the bottom edge straight up to the highest point of the fin.	Caliper
	Length (base)	Measure from the front edge to the back edge along the bottom of the fin.	Ruler
	Thickness	Measure the fin from one flat side to the other at the thickest point.	Caliper
	Front slant start height	Measure up from the bottom to where the slant begins on the front edge.	Ruler
	Back slant start height	Measure up from the bottom to where the slant begins on the back edge.	Ruler
HORIZONTAL STABILIZER	Total length	Measure tip to tip across the full width of the horizontal stabilizer.	Ruler
	Width (chord)	Measure from the leading edge (front) to the trailing edge (back) of the stabilizer.	Ruler
	Thickness	Measure the stabilizer from the top face to the bottom face.	Caliper
WING (one panel)	Maximum length	Measure from the root (where wing meets fuselage) to the tip.	Ruler
	Maximum width (chord)	Measure from the leading edge to the trailing edge at the widest point.	Ruler
	Thickness	Measure from top face to bottom face at the thickest point.	Caliper
	Root width	Measure the chord at the point where the wing would connect to the fuselage.	Ruler
FUSELAGE	Total length	Measure from the tip of the nose to the very end of the tail.	Ruler
	Maximum height	Measure from the bottom to the highest point on the fuselage body.	Ruler
	Maximum width	Measure side to side at the widest point of the fuselage.	Caliper
	Wing slot	Measure slot width, length, and depth; also measure its distance from the nose and from the bottom of the fuselage.	Caliper
	Stabilizer slots	Measure the width and depth of each slot. These are narrow — calipers are essential.	Caliper