

## Specifications – Invar Optical Breadboard

---

### **Description:**

3 foot X 5 foot X ~2.5 inch Optical breadboard. This breadboard will be used in the 14 X 22 foot wind tunnel to hold optical components for the Laser Doppler Velocimeter System. To maintain the critical alignment required by this measurement system the optical components must be attached to a stable platform that does not change shape or warp over the wide temperature variations encountered in this facility. Due to this requirement the optical breadboard must be constructed with invar face-sheets which have a very low coefficient of thermal expansion (~ 1.2 ppm/deg C).

### **Required Features:**

- Dimensions shall be 3 foot X 5 foot X 2.4 inches.
- Shall be constructed with aluminum honeycomb sandwiched between two sheets of super invar.
- Shall have 1/4-20 UNC holes drilled and tapped on 1 inch centers over the entire top surface.
- Weight shall not exceed 275 lbs

### **Delivery:**

14 Weeks ARO or less