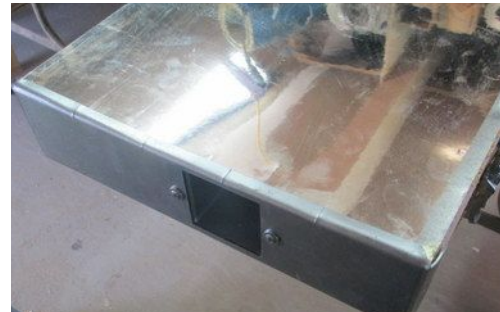


Mirror Durability

Focused Sun mirrors can withstand high wind loads. Below two men stand on a mirror supported between two blocks. The moment applied by this load is the same as the load applied by a 150 mph wind. The mirror is strong enough to meet U.S. wind load specifications required of any structure attached to a roof.



The mirror uses an all-galvanized construction of all surfaces exposed to the sun. The ultra-violet component of sunlight degrades many materials. The outer surfaces of our mirror are galvanized steel, the standard for durability of outdoor structures like guard rails, sign posts and light poles. The shiny sheet that reflects sunlight into the module's absorber has an electrolyzed surface that has also withstood decades of sun exposure.



Even the motors and axles we use have galvanized covers and brackets to protect them from sunlight. The motors are double sealed. Silicone sealant expels moisture from their electronics and grease lubricates and keeps moisture and dirt out of bearings – just as the grease in wheel bearings lubricates and keeps moisture and dirt out.

