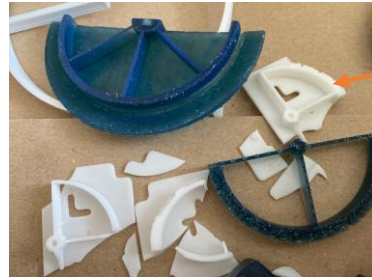
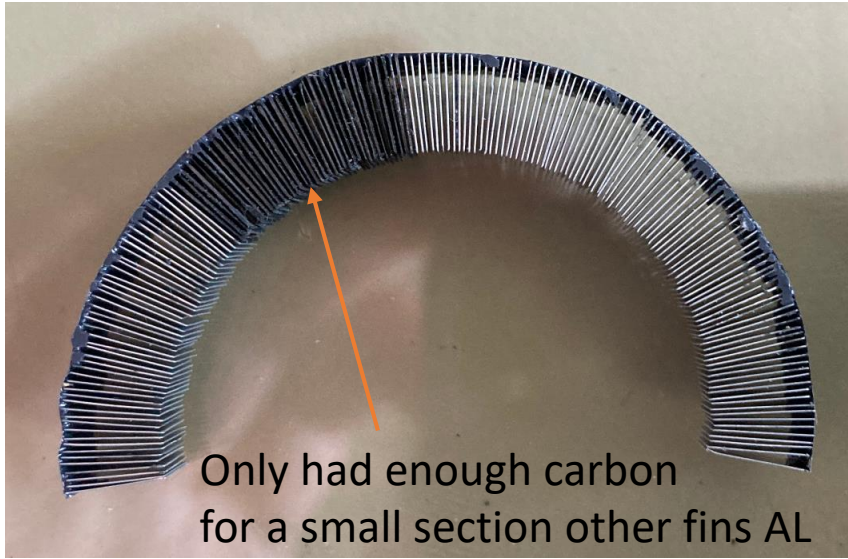


Utrecht update  
22-3-2022

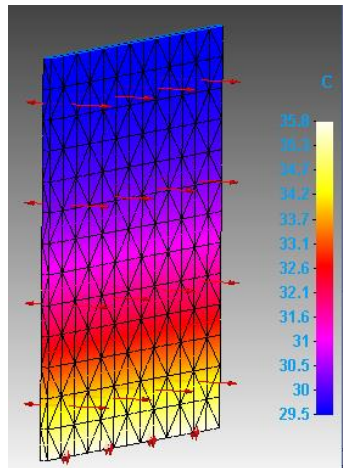
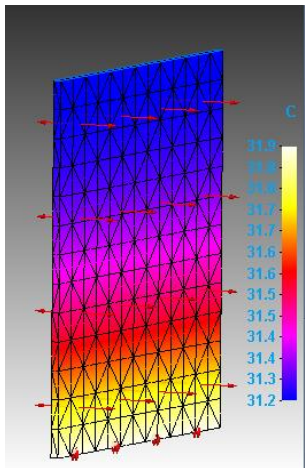
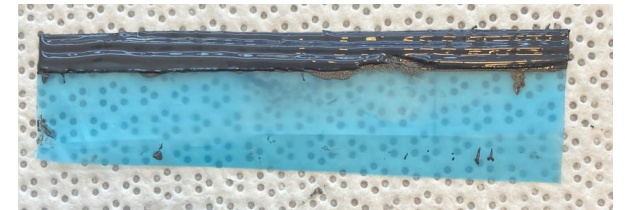
BBM4 (cooler fins to have a comparison to the carbon foam)

Will continue coming weeks, Pending BBM3 (updated carbon foam) we can interrupt and switch to other if higher priority



Tried to 3d print molds on formlabs and wanhaoD7 -failed-

Molds now made with wire EDM



AL 210 W/m-k dt=0.7

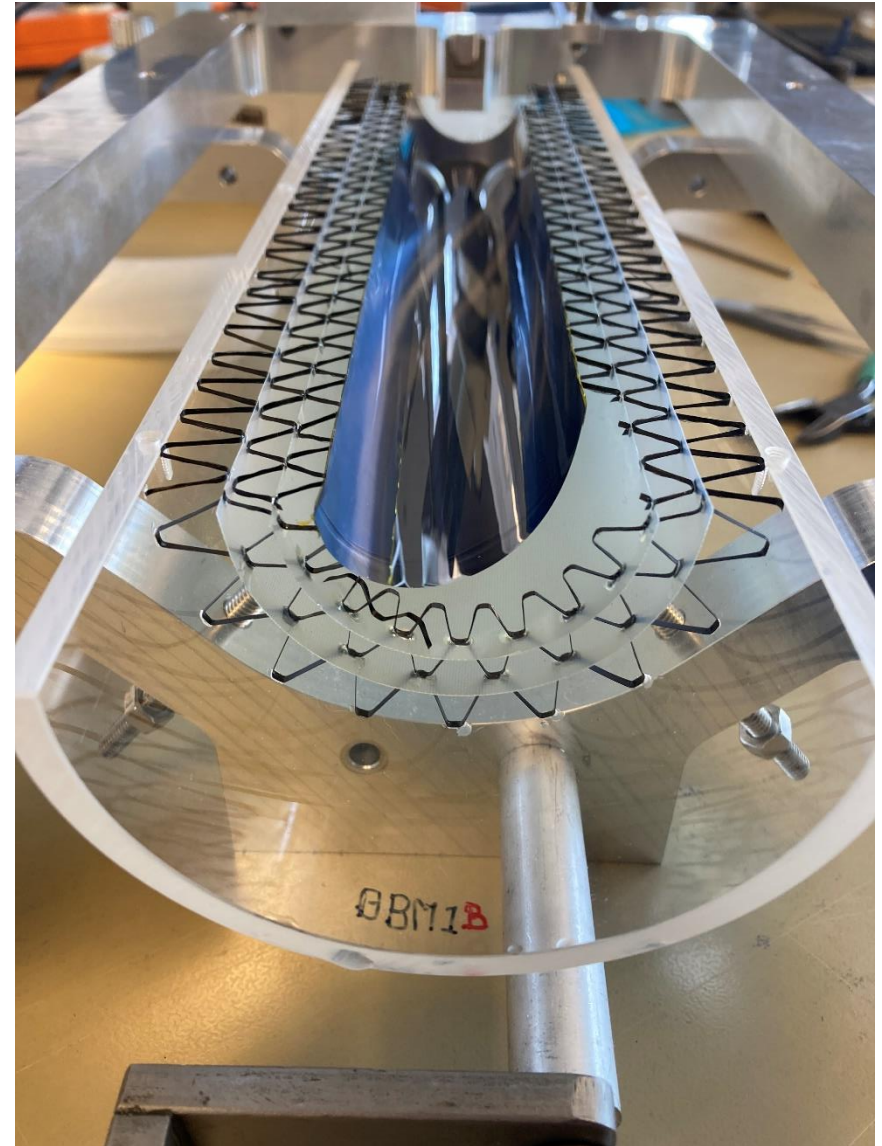
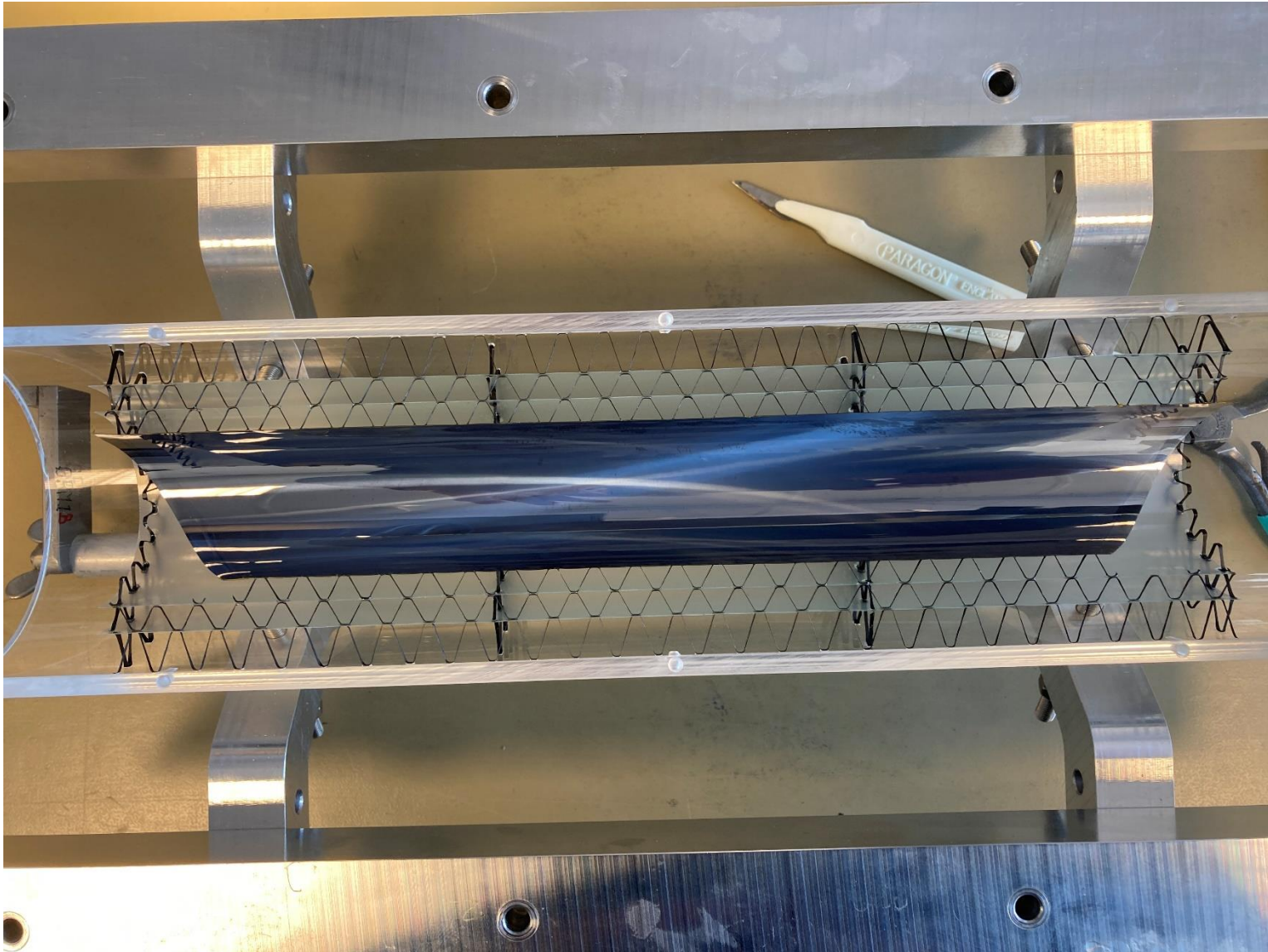
Carbon 20 W/m-k dt=6



Aprox 0.5 mm conductive glue  
One part broke off wil add  
Carbon fleece on next



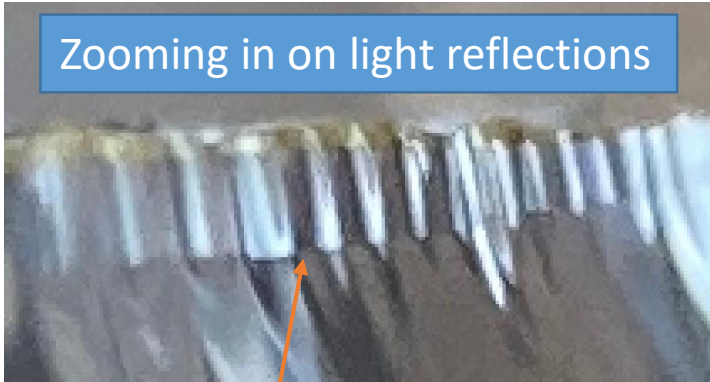
Demonstration of silicon layer with carbon fibre support structure done with "tape to mandrel" method



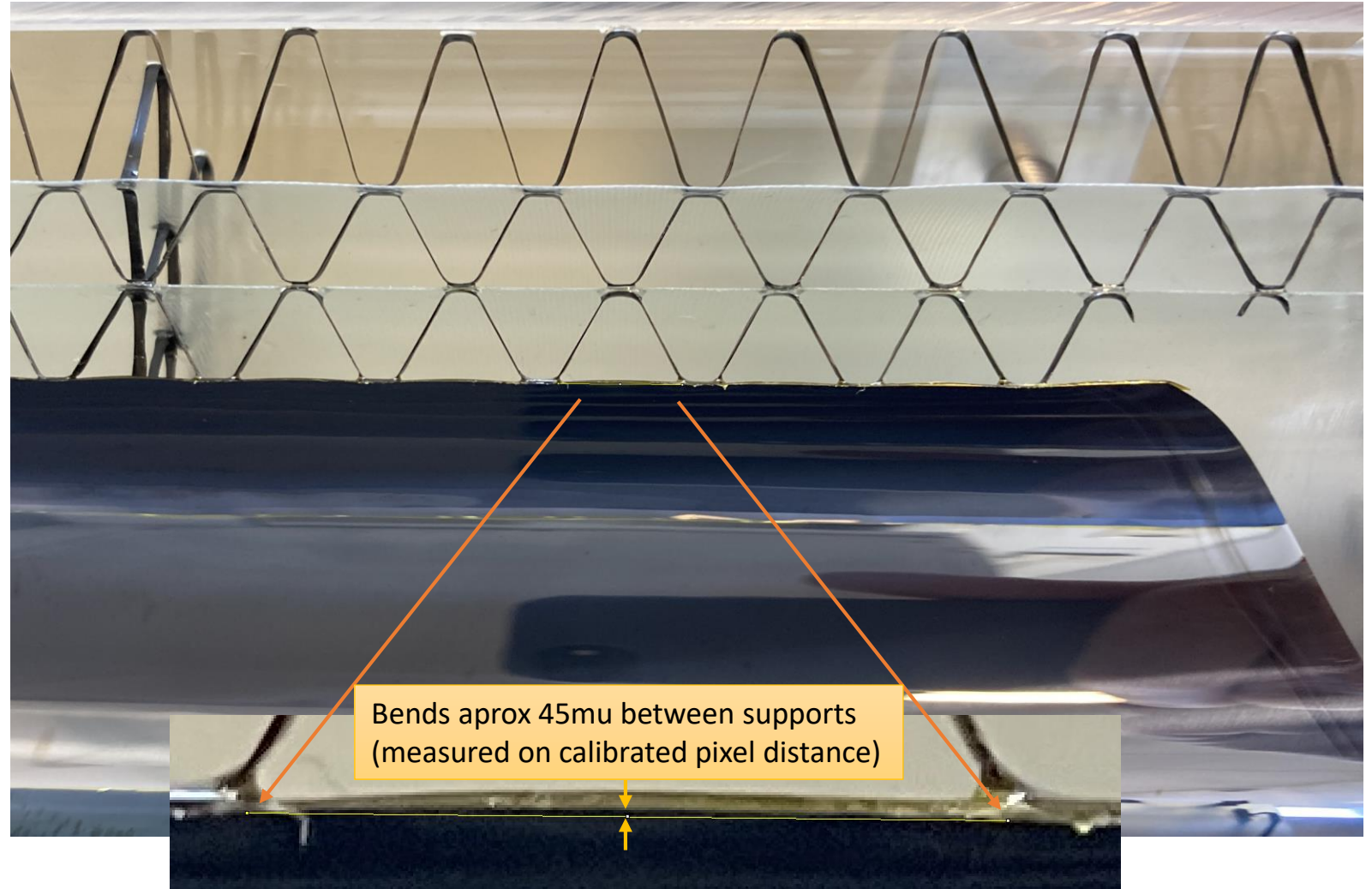
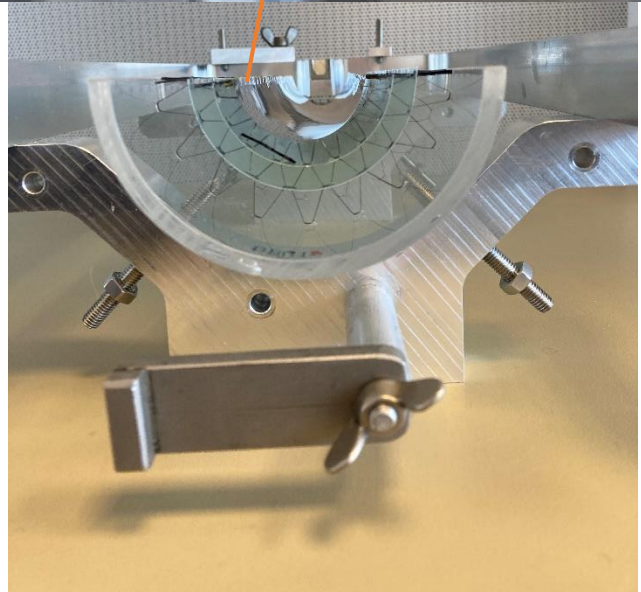


Carbon Foam longerons with carbon flece used on BBM2 where L2 0.69g L1/0 0.5 g  
Carbon fibre Longerons are L2 0.063g and L1/0 0.046g

So its about 10X lighter excluding glue but it bends out between support could be fixed with additional carbon fiber strip



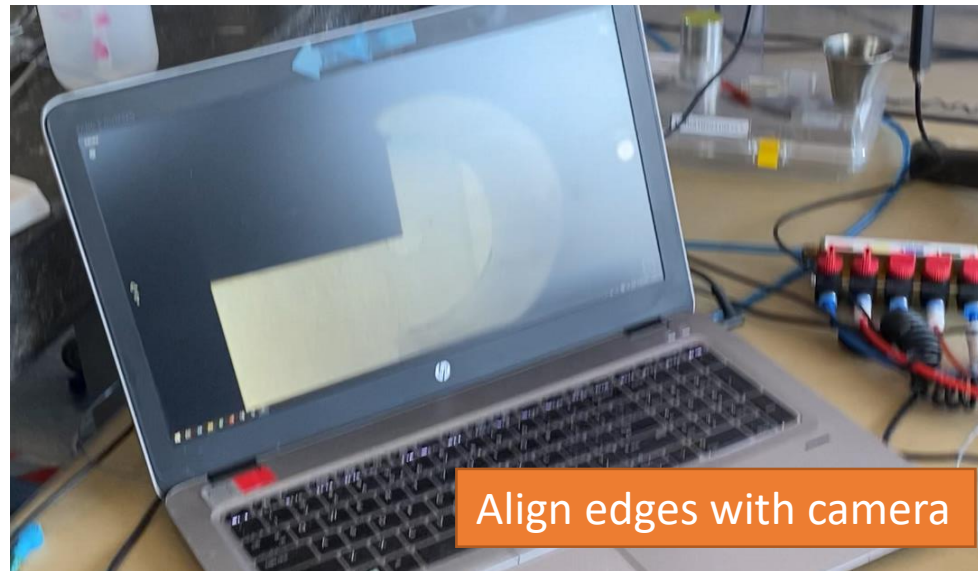
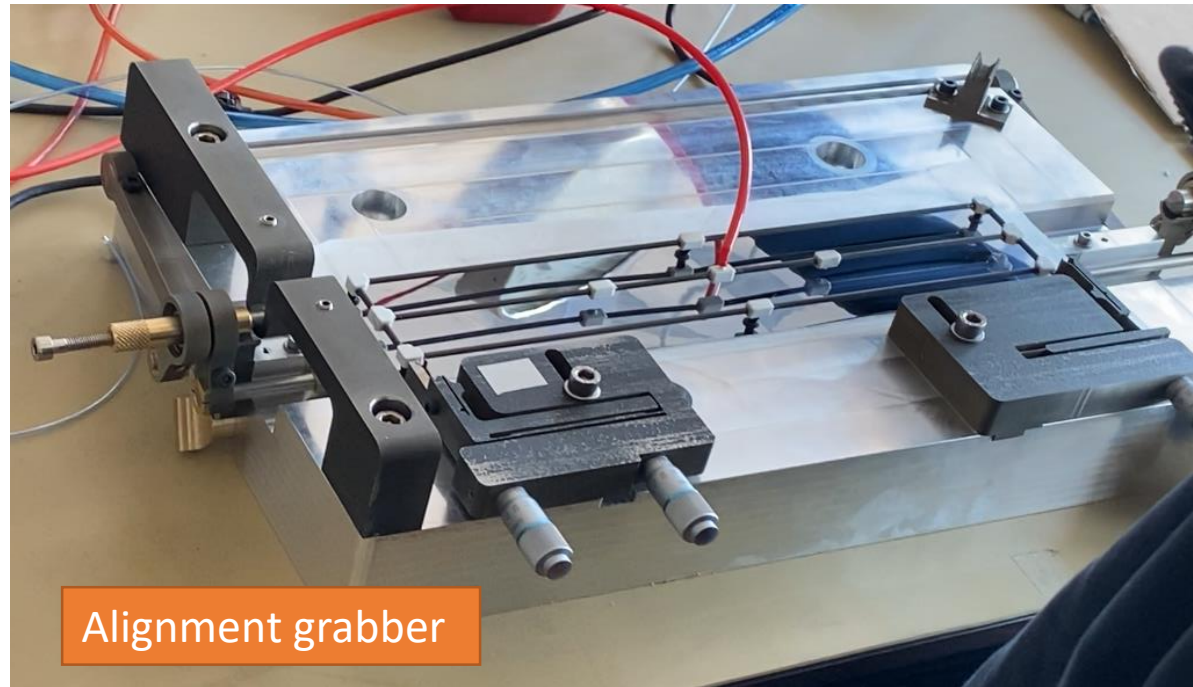
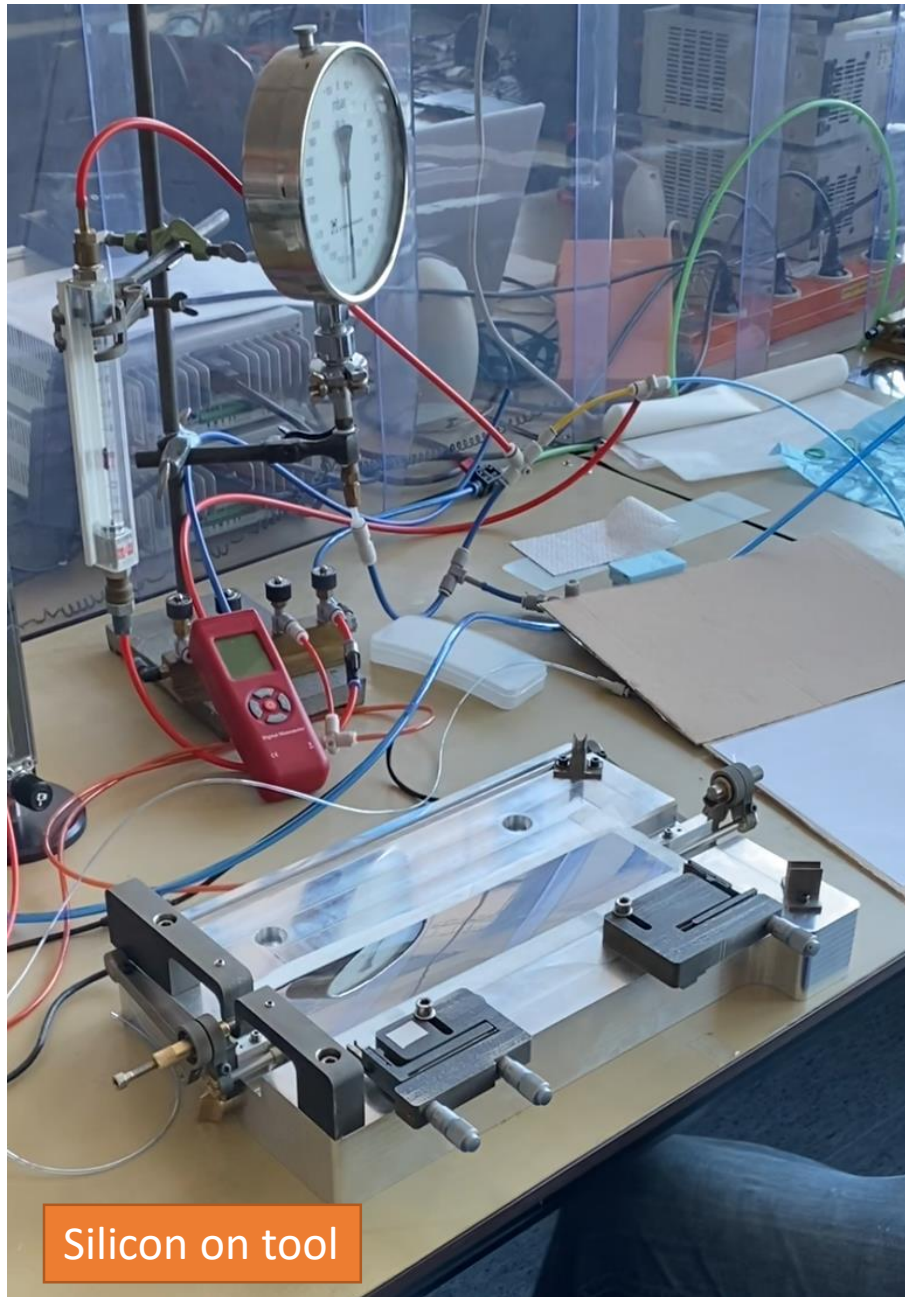
Zooming in on light reflections



Bends aprox 45mu between supports  
(measured on calibrated pixel distance)

Vacuum grabbing (spoiler failed....)



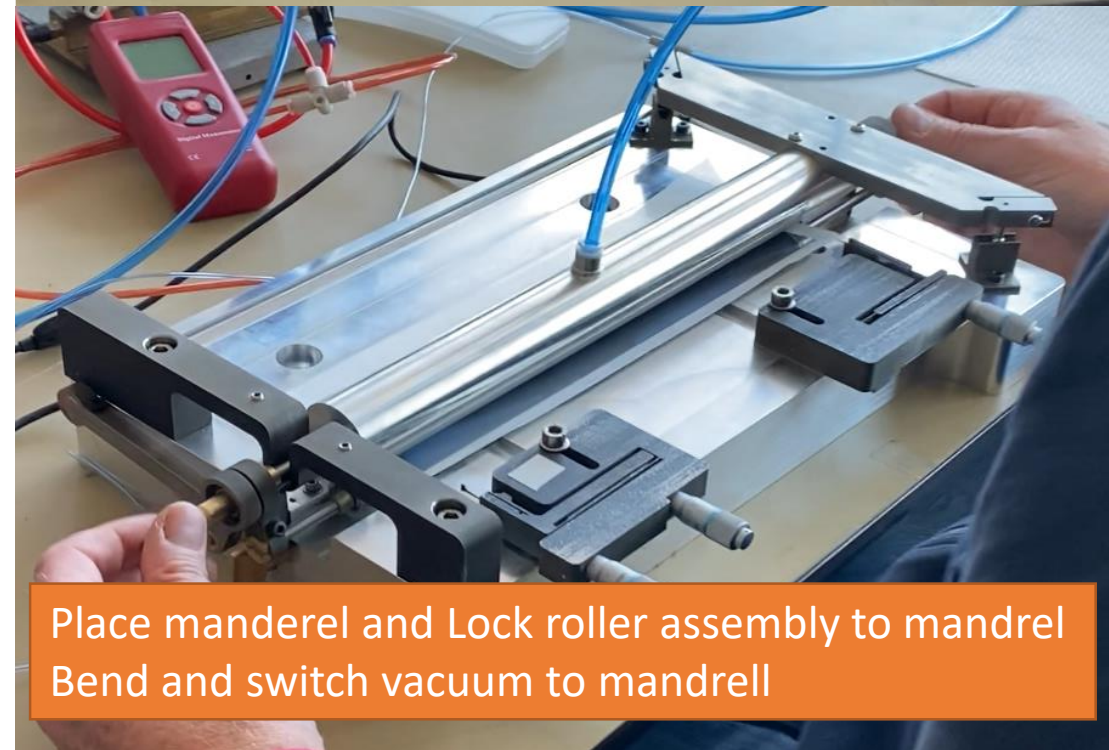






After alignment silicon is held with vacuum from below (see small distortion in mirror)

First piece of silicon probably Broke on bending second piece broke when applying the vacuum silicone rubber seal on mandrel broke when cleaning of broken silicon



Place manderel and Lock roller assembly to mandrel  
Bend and switch vacuum to mandrell



Bellow seal of 100mu silicone rubber  
Inflatable to touch silicon



Once you have a piece which is not breaking on first try, bending seems not a problem.....  
(sorry had no time to edit video and its in dutch)

