

## Foil Holder Fabrication Options

Looking at options to support 200um laser foil in screen holder (concerns about holding reliably)

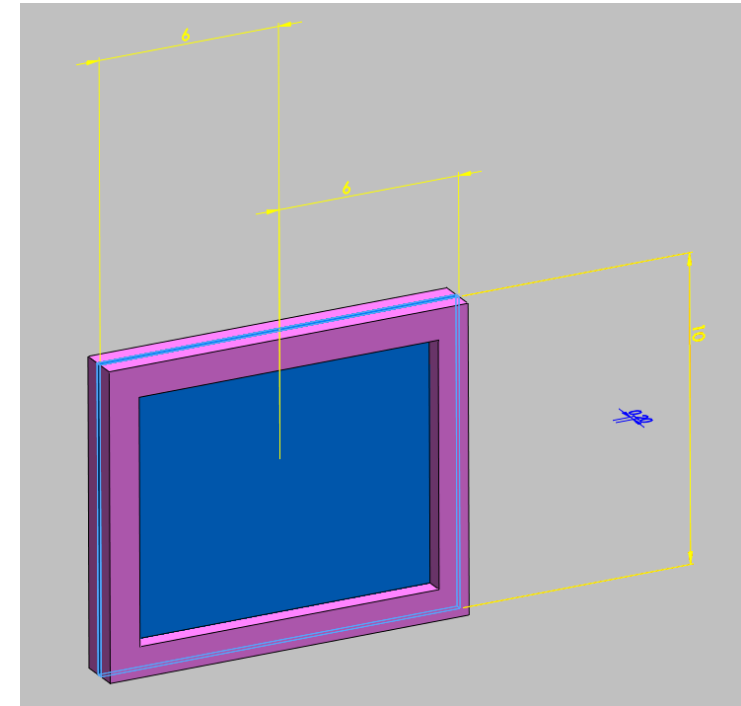
- Laser sintered metal (3D printed) parts  
Need to ascertain if these are ok for UHV. Might be useful to 3D print holder as it may prove difficult to CNC

- **Micro welded frame**

**We have also had confirmation that we can have the foil welded into a frame to make it easier to assemble more robust (€2500 for 20 parts). Need to make the part longer as the frame shadows the foil and reduces the overall width.**

- Photo-etch

We can also get it photo-etched from 0.7 sheet down to 0.2, but the surface quality and thickness will not be as good as the welded frame option

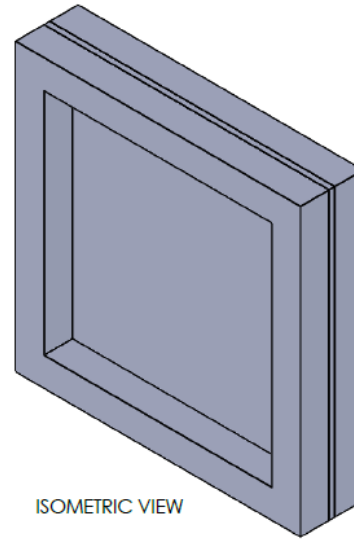
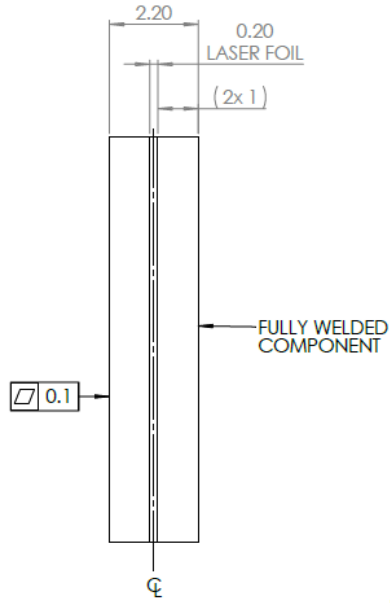
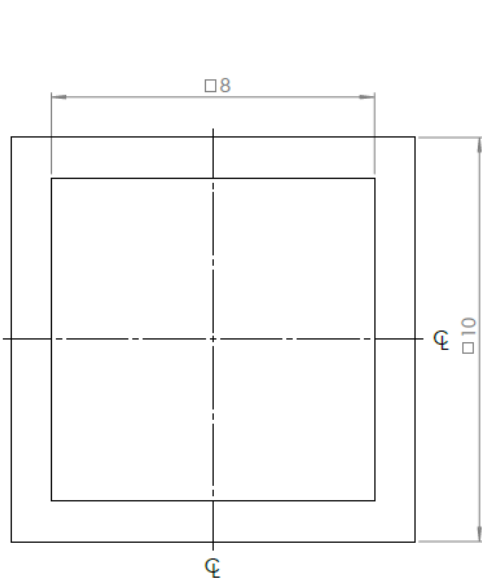


# Foil Frame Holder (Micro welded Frame Concept)

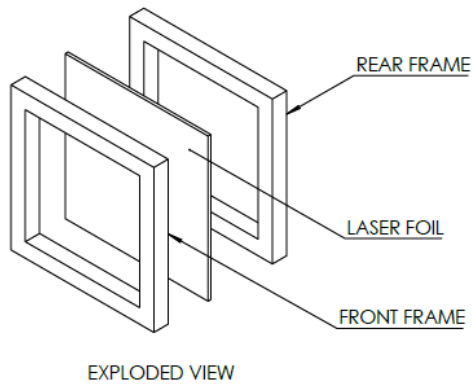
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DRAWING NUMBER:  
E24016-014

ISSUE	DESCRIPTION	DRAWN	ECN	DATE
A	FIRST RELEASE	TDB		27/02/2024



ISOMETRIC VIEW



**NOTES:**

1. ALL ANGLES 90° UNLESS OTHERWISE STATED.
2. DEBURR ALL SHARP EDGES.
3. MIN. BEND RADIUS UNLESS OTHERWISE STATED.
4. FINISH IS NATURAL.
5. PART SYMMETRICAL ABOUT CENTRELINES.
6. PART TO BE CLEAN.
7. MATERIAL IS ALUMINIUM 1050, 1200 OR 99% PURE ALU.
8. FULL HARDNESS MATERIAL.

ALL DIMENSIONS IN MM		DO NOT SCALE DRAWING		IF IN DOUBT ASK	
TOLERANCE UNLESS OTHERWISE SPECIFIED: LINEAR: ± 0.10    ANGLES: ± 0.25    HOLE Ø: ± 0.10			MACHINED FINISH UNLESS OTHERWISE SPECIFIED: N/A		
SCALE:	MATERIAL:	FINISH:			
10:1	ALUMINIUM (SEE NOTES)	NATURAL			
TITLE:	DRAWING NUMBER:	ISSUE:	ISSUE DATE:		
LASER FOIL WELDED ASSEMBLY	E24016-014	A	27/02/2024		
MODELLED:	CLIENT:	MAX PLANCK INSTITUTE:		SHEET:	
DRAWN: TDB	PROJECT: AWAKE GEN 2			1 of 1	
DATE: 27/02/2024	CAD FILE NUMBER: E24016-014				

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