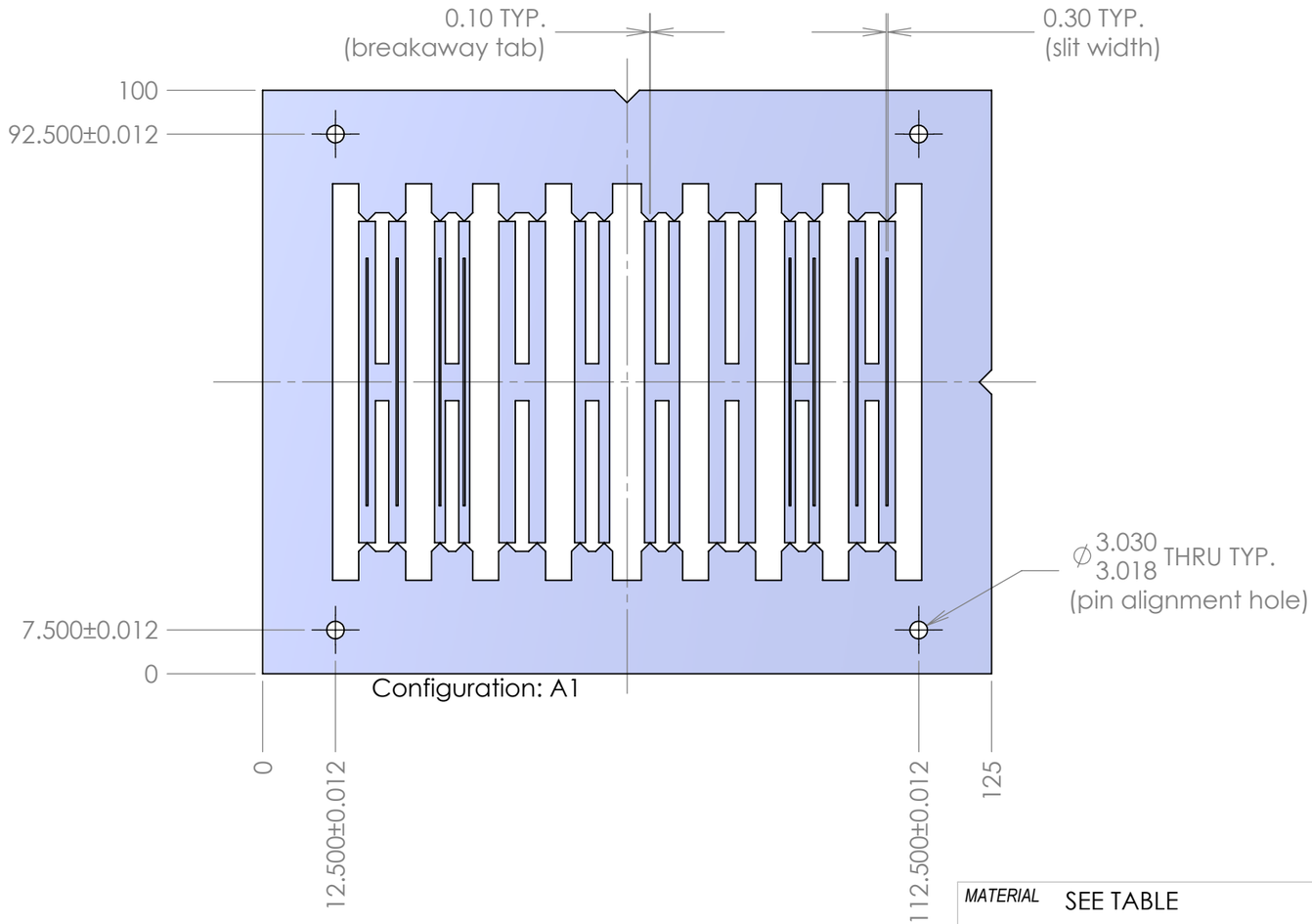
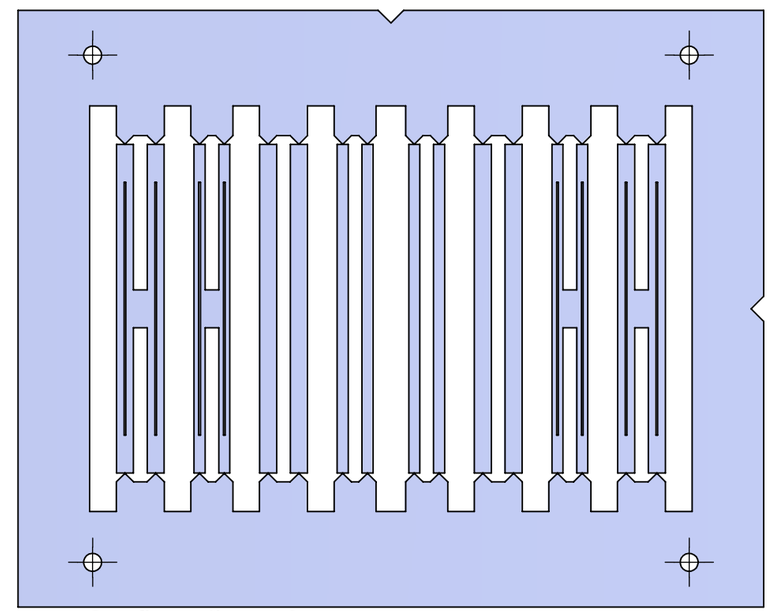
Material	Thickness	Source
SS 17-7PH	0.003"	e.g. McMaster-Carr #2325K11
Ti 6Al-4V	0.004"	?
[AQII/P30/AQII]	~0.010"	This is a carbon and glass fiber composite laminate. LBNL will provide.

This table indicates materials only for configurations shown on this page.

REVISIONS				
REV	DWG	CHK	DATE	DESCRIPTION



Configuration: A1



Configuration: A2

A DXF file of the front profile will be provided for each configuration. Except where otherwise specified, the tolerance in matching the profile is ±0.025mm deviation from lines as drawn in the DXF.

DWG BY J.H. Silber	DATE 2011-02-16		
CHK BY J.H. Silber	DATE 2011-02-16		
APR BY J.H. Silber	DATE 2011-02-16		

MATERIAL SEE TABLE

SURFACE TREATMENT

DIMENSIONS IN MM. UNLESS OTHERWISE SPECIFIED:

TOLERANCES		
	X.X ± 0.5	FRAC. ± 1/64
	X.XX ± 0.1	ANGLES ± 1.00°
	X.XXX ± 0.05	FINISH 3.2 (um)

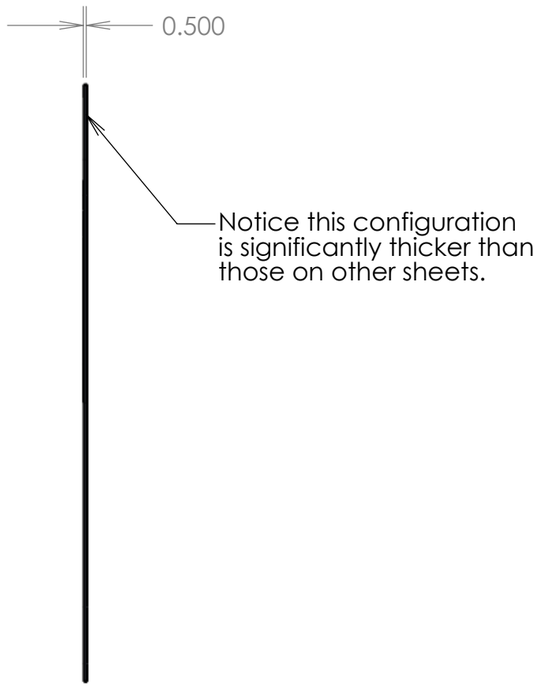
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

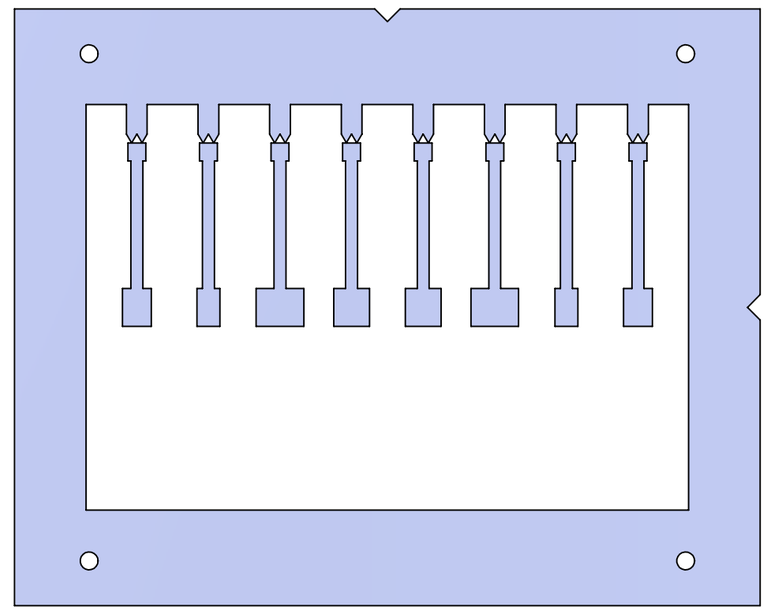
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

BigBOSS

Flexure Pattern

SER NO.		SCALE: 1:1	SHEET 1 OF 3	
PROJECT NO.	PROJECT NAME	CATEGORY CODE	DWG NO.	SIZE B / REV. 0





Configuration: A3

Material for this configuration is to be an aluminum alloy. 7075-T6 or 6061-T6 is ideal, but not essential.

MATERIAL	See note
SURFACE TREATMENT	

DIMENSIONS IN MM. UNLESS OTHERWISE SPECIFIED:

TOLERANCES		
	X.X ± 0.5	FRAC. ± 1/64
	X.XX ± 0.1	ANGLES ± 1.00°
	X.XXX ± 0.05	FINISH 3.2 (um)

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

BigBOSS

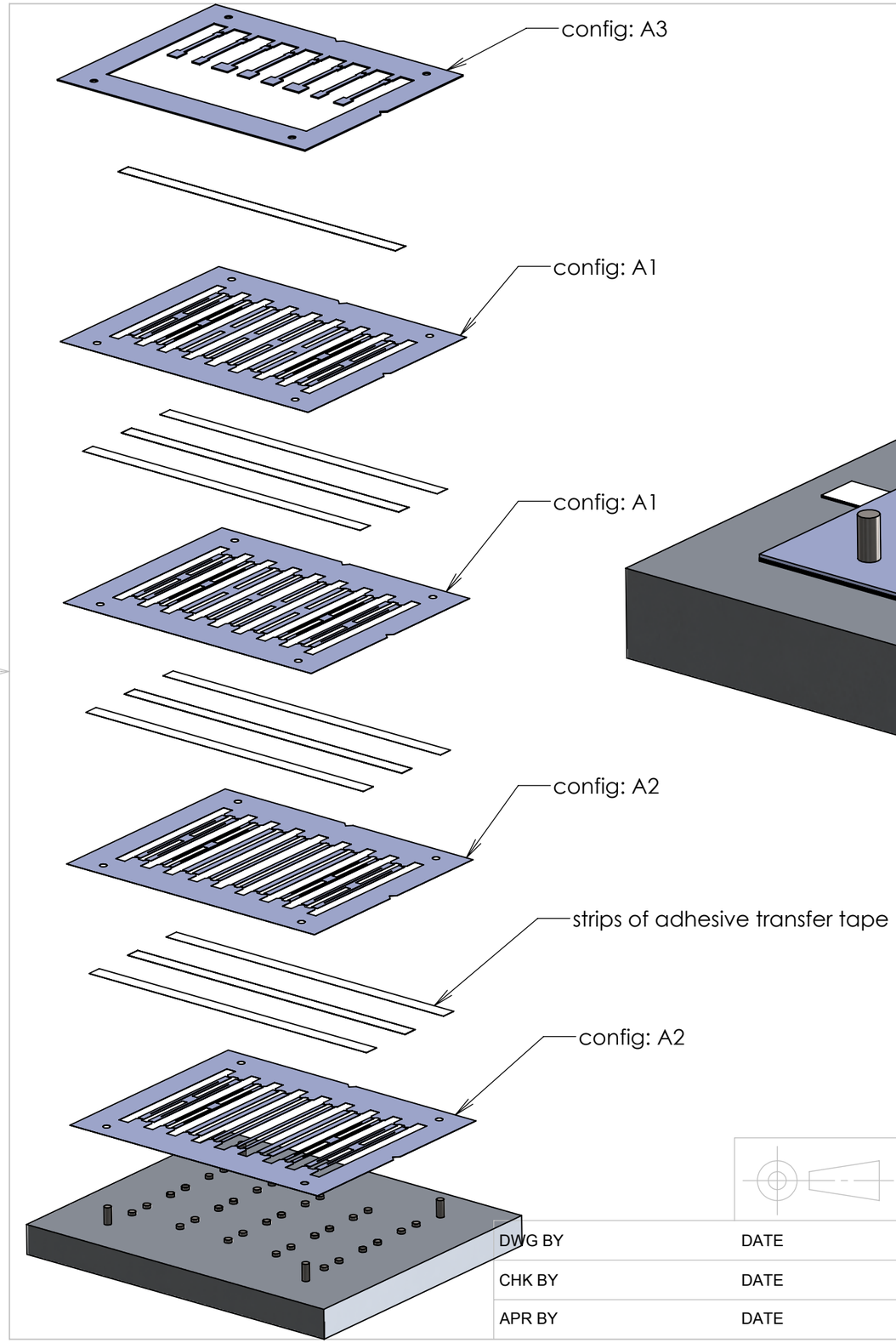
Flexure Pattern

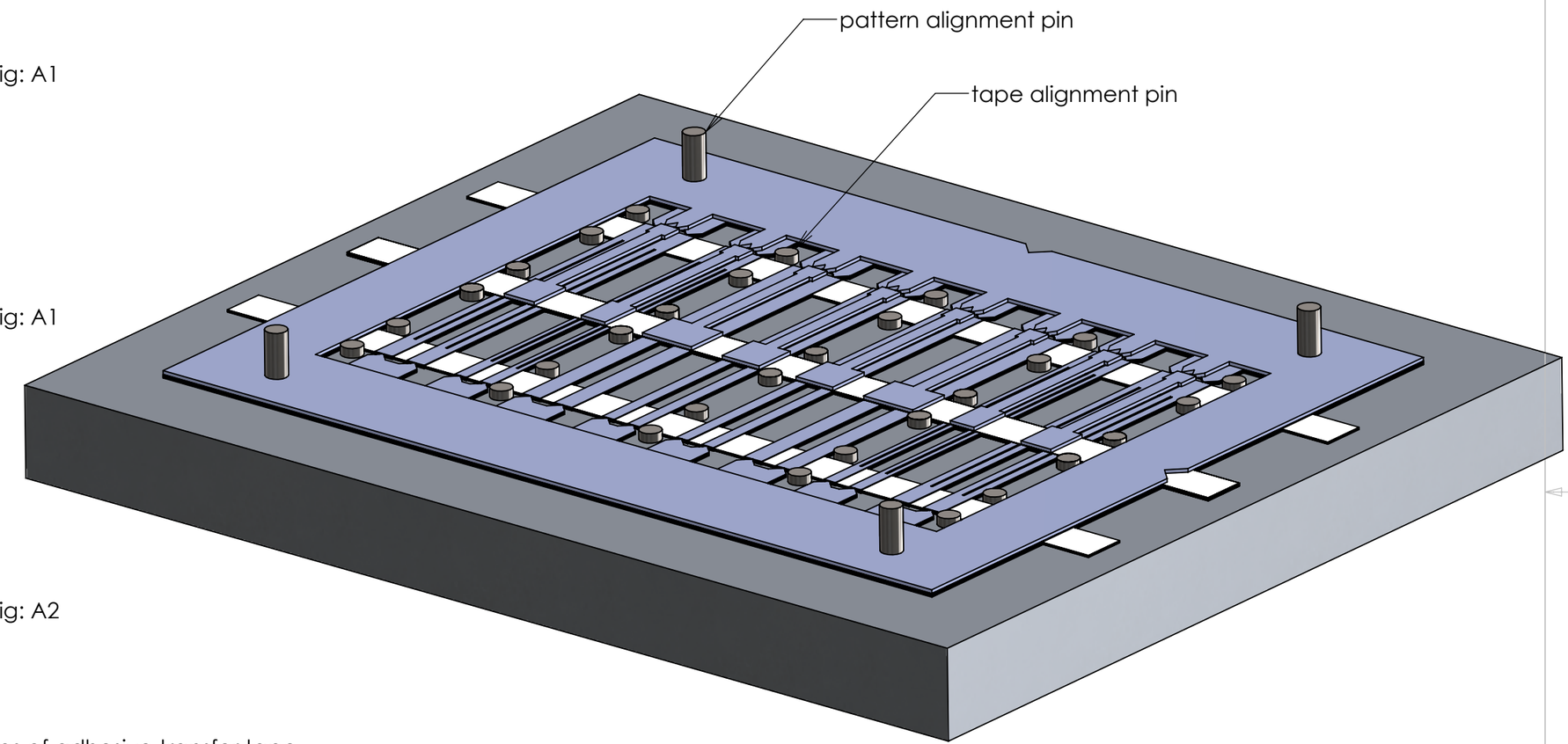
DWG BY	DATE
CHK BY	DATE
APR BY	DATE

THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

SER NO.		SCALE: 1:1	SHEET 2 OF 3	
PROJECT NO.	PROJECT NAME	CATEGORY CODE	DWG NO.	SIZE B / REV. 0

For reference, this sheet shows some views of typical laminating procedure.
For the time being, lamination will be done in-house by technicians here at LBNL.





MATERIAL			
SURFACE TREATMENT			
DIMENSIONS IN MM. UNLESS OTHERWISE SPECIFIED:			
TOLERANCES	X.X ± 0.5	FRAC. ± 1/64	
	X.XX ± 0.1	ANGLES ± 1.00°	
	X.XXX ± 0.05	FINISH 3.2 (um)	

DWG BY	DATE
CHK BY	DATE
APR BY	DATE

THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .016 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & B46.1

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

BigBOSS

Bonding Setup

SER NO.		SCALE: 1:2	SHEET 3 OF 3	
PROJECT NO.	PROJECT NAME	CATEGORY CODE	DWG NO.	SIZE B / REV.