Dichroics status and plans for VD-Module-0

C. M. Cattadori 21/10/2022



XA Components

[_			
	Component	Size/Number	Groups involved	Manufacture r	
	Mechanics	660 x 660 16 units	CSU,IOWA,NIU (US)		
	WLS Lightguides	625 x 625 max 16 units	INFN-MiB,UniMIB (Italy)	G2P (Italy) LC (Italy)	
	Dichroics	150 x 150 200 x 97.5 97 x 97	CIEMAT, IFIC (Spain) INFN-MiB(Italy)	PE ZAOT	
	pTP coating		UniCAMP (Br)	UniCAMP	
	SiPMs	2560	CIEMAT, (Spain), INFN,UniMiB (Italy)		
	Flexes	128	UCSB,FNAL,INFN-MiB		
21/10/2022		c	.M. Cattadori		

Dichroics

- Two Manufacturer
 - PE (Spain):
 - 150 x 150 mm → 16 per XA side
 - LAr designed
 - ZAOT (Italy):
 - 202 x 97.5 mm → 18 per XA side
 - 150 x 150 mm → 16 per XA side
 - LAr designed
- pTP coating
 - Campinas
- Glasses will travel back and forth
 - EU→Brazil (Shipped/Hand Carried)
 - Brazil→EU (Shipped/Hand Carried)



pTP evaporation capabilities @ Campinas (agreed with Ana Machado)

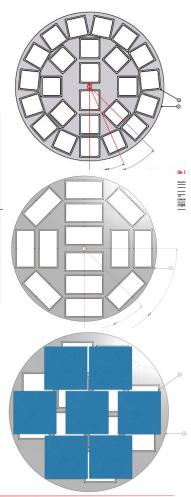
Size mm x mm	glass/batch #	n.batch/day #	glasses/week #	equivalent 2 sides XA-VD/week		
97 x 97	25	2	250	3.5		
202 x 97.5	14	3	210	5.8		
150 x 150	7	3-4	105-140	3.2-4.4		

Coating periods:

- Nov29 to Dec19 2022
- Jan09 to Jan20 2023

Coating thicknesses:

- 430u/cm2 central ring
- 340u/cm2 middle ring
- 240u/cm2 external ring



INF

Tentative Plan Little Contingency (Carla)

	Oct 22	November 22			December 22				January 23				
	4	1	2	3	4	1	2	3	4	1	2	3	4
ZAOT:													
design								1	1	1			
production		144 x (200 x100)				64 x (150 x 150)							
QC & delivery					20 20				2 33 2	62. 2			
shipping							. 8	1 1 1 1					
pTP coating													
delivery at CEF	RN							S - 33					
PE: 150 x150									İ				
design									1				
production				6	i4 x (150	x 150)	-		128	0			-
QC & delivery								9 39 3			ļ.		
shipping													
pTP coating													
delivery at CEF	RN					8		2	1				



Tentative Plan No Contingency (Anselmo)

- 0. IFIC/CIEMAT order the 150x150 pTP coating disc (available end of November)
- 1. ZAOT produces 144 (+spares) 100x200 filters for mid/end November
- 2. PE produces 64 (+spares) 150x150 filters for end November or beginning of December
- 3. Ship/Hand carry to Campinas on November 26-28th with ZAOT filters (and if PE is on time also with PE)
- 4. Ship/Hand carry back to CERN with coated filters on Dec. 10th 5. Second batch of filters for both PE and ZAOT with optimised layers is ordered mid-end November.
- 6. PE produces 128 (+spares) 150x150 optimised filters for end of December7. ZAOT produces 64 (+spares) 150x150 optimised filters for end of December
- 8. Ship/Hand carry campinas on January 7th with ZAOT and PE filters 9. Ship/hand carry to CERN with coated filters on Jan. 21st

