

Acceptance Sheet Collimators

new values	values not remeasured
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Collimator Name	CERN Name	Arrival Date
HCTCLP_001-CQ000407	TCLP_090	23/04/2008

		Value	Unit	Specification Value	Comments	Responsible	Result	
Transport - Reception tests	Shock	<1 g	-	<1g	Green	O.Aberle	OK	
	Water pressure test	30	-	30 bar			OK	
	Visual Inspection	n/a	-	n/a			OK	
	Paper Documentation	n/a	-	n/a		B.Salvachua	OK	
Vacuum	Leak Test	n/a	-	n/a		G.Cattenoz	OK	
	Vacuum limit after Bakeout (CERCA)	4.10E-09	mbar	< 4E-08			OK	
	Vacuum limit final test (CERN)	2.60E-09	mbar	< 4E-08	18/12/2013		OK	
	Outgassing	4.40E-08	mbar.L/s	≤ 2E-7	18/12/2013		OK	
	Vacuum spectrum	n/a	-	n/a			OK	
RF	Transverse RF fingers (Phase I)	n/a	-	n/a		O.Aberle	OK	
	Longitudinal RF fingers	n/a	-	n/a			OK	
Flatness	Surface Flatness AC	24.86	µm	≤ 50		O.Aberle, B.Salvachua	OK	
	Surface Flatness BD	29.13	µm	≤ 50			OK	
Mechanical Stops Alignment	Gap across zero	AC	BD	mm	n/a	O.Aberle	OK	
		6.018	6.058					
	Max. gap end stops	AB	CD	mm	n/a		OK	
		59.98	59.97					
Min. gap end stops	0.34	0.34	mm	n/a	OK			
Min gap (visual inspection)	n/a	n/a	mm	n/a	OK			
Electronic Tests and Installations	Mechanical LVDT Play A/B/C/D	36/22/37/19		µm	< 20	13/9/2013 Accepted	OK	
	Max. Dynamic Torque at CERCA (A/B/C/D)	0.36/0.37/0.35/0.38		Nm	≤ 0.5	9/4/2008	OK	
	Max. Dynamic Torque at CERN (A/B/C/D)	0.25/0.26/0.22/0.26		Nm	≤ 0.5	4/06/2013	OK	
	Autoretraction	A	B	C	D	mm	n/a	13/9/2013
		16.6	2.8	14.83	0			
	Test of switches	n/a		-	n/a		Ask A.Masi	OK
	Test of temperature sensors	n/a		-	n/a	OK		
	Test of motors	n/a		-	n/a	OK		
	Test of resolvers	n/a		-	n/a	OK		
Test of LVDT's	n/a		-	n/a	OK			

	Calibration of LVDT	n/a		-	n/a		OK
Switches Alignment	Gap across zero (switches)	AC	BD	mm	> 5	O.Aberle	OK
		5.68	5.73				
	Max. gap switches	AB	CD	mm	≥ 58		
		59.35	59.28				
	Min. gap switches	0.44	0.44	mm	≤ 0.5		
Min gap (visual inspection)			mm	≤ 0.5			
Jaw Tilt Angel	Max. tilt angle	AC	BD	mrad	> +2.0	O.Aberle	OK
		3	3				
	Min. tilt angle	-3	-3	mrad	< -2.0		
Operational data	Flatness data	n/a		-	n/a	B.Salvachua, S.Redaeli	OK
	Mechanical data	n/a		-	n/a		OK
	MTF data availability	n/a		-	n/a		OK
Installation	Proposed Position Tunnel	TCL.4L5.B2		-	n/a	B.Salvachua, S.Redaeli	OK
	Beam	Beam 2		-	n/a		OK
	Azimuthal orientation	0		deg	n/a		OK
	Check tunnel support	n/a		-	n/a		OK
	Check collimator orientation	n/a		-	n/a		OK
Other	General Comments						OK

Date of steering meeting:

28/11/2013

		YES	NO	
Decisions	Acceptance of CERCA delivery	X		
	Acceptance of CERN consolidation	X		
	Conformity for installation	X		
	Installation position	X		