

Acceptance Sheet Collimators

new values	values not remeasured
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Collimator Name	CERN Name	Arrival Date
HCTCLP_001_CQ000408	TCLP081	23.04.2008

		Value	Unit	Specification Value	Comments	Responsible	Result			
Transport - Reception tests	Shock	<1g	-	<1g		O.Aberle	OK			
	Water pressure test	30 bar	-	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)	2.60E-09	mbar	< 4E-08			OK			
	Vacuum limit final test (CERN)	1.00E-09	mbar	< 4E-08	2013		OK			
	Outgassing	9.00E-08	mbar.L/s	≤ 2E-7	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	48	µm	≤ 50		O.Aberle, B.Salvachua	OK			
	Surface Flatness BD	-45	µm	≤ 50			OK			
Mechanical Stops - Alignment	Gap across zero	AC	BD	mm	n/a	O.Aberle	OK			
		6.07	6.03							
	Max. gap end stops	AB	CD	mm	n/a					
		59.98	60.00							
Min. gap end stops	0.36	0.37	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	23/10/17/7				µm	< 20	ACCEPTED	OK	
	Max. Dynamic Torque at CERCA (A/B/C/D)	0.37/0.38/0.36/0.4				Nm	≤ 0.5	under vacuum	OK	
	Max. Dynamic Torque at CERN (A/B/C/D)	26/23/22/24				Nm	≤ 0.5	under std pressure	OK	
	Autoretraction	A	B	C	D	mm	n/a		OK	
		0.01	12.2	4.77	14.43					
	Test of switches	n/a				-	n/a		Ask A.Masi	OK
	Test of temperature sensors	n/a				-	n/a	20-06-2013		OK
	Test of motors	n/a				-	n/a	20-06-2013		OK
Test of resolvers	n/a				-	n/a	20-06-2013	OK		

	Test of LVDT's	n/a		-	n/a	20-06-2013		OK
	Calibration of LVDT	n/a		-	n/a	20-06-2013		OK
Switches Alignment	Gap across zero (switches)	AC	BD	mm	> 5		O.Aberle	OK
		5.73	5.7					
	Max. gap switches	AB	CD	mm	≥ 58			
		59.26	59.33					
Min. gap switches	0.50	0.49	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.4L1.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: 17/10/2013

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