

Acceptance Sheet Collimators

new values	values not remeasured
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Collimator Name	CERN Name	Arrival Date
HCTCLP_001_CQ000410	TCLP094	20.06.2008

		Value	Unit	Specification Value	Comments	Responsible	Result		
Transport - Reception tests	Shock	<1g	-	<1g	Green	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)	4.50E-09	mbar	< 4E-08			OK		
	Vacuum limit final test (CERN)	1.00E-08	mbar	< 4E-08			OK		
	Outgassing	7.50E-08	mbar.L/s	≤ 2E-7			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	60	µm	≤ 50	Accepted	O.Aberle, B.Salvachua	OK		
	Surface Flatness BD	-14	µm	≤ 50			OK		
Mechanical Stops Alignment	Gap across zero	AC	BD	mm	n/a	O.Aberle	OK		
		6.05	-6.03						
	Max. gap end stops	AB	CD	mm	n/a				
		60.00	59.99						
Min. gap end stops	0.35	0.35	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	44/8/23/8		µm	< 20	Ask A.Masi	OK		
	Max. Dynamic Torque at CERCA (A/B/C/D)	0.37/0.37/0.42/0.43		Nm	≤ 0.5		under vacuum 28/04/2008	OK	
	Max. Dynamic Torque at CERN (A/B/C/D)	0.26/0.23/0.22/0.24		Nm	≤ 0.5		under std pressure 17/06/2013	OK	
	Autoretraction	A	B	C	D		mm	n/a	21/06/2013
		0.009	0.000	0.004	0.007				
	Test of switches	n/a		-	n/a			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
		5.73	5.68				
	Max. gap switches	AB	CD	mm	≥ 58		
		59.33	59.35				
	Min. gap switches	0.47	0.47	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.4R1.B1		-	n/a	B.Salvachua, S.Redaeli	OK
	Beam	Beam 1		-	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	
Decisions	Acceptance of CERCA delivery	X		
	Acceptance of CERN consolidation	X		
	Conformity for installation	X		
	Installation position	X		