

Acceptance Sheet Collimators

new values	values not remeasured
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Collimator Name	CERN Name	Arrival Date
HCTCLP_001-CQ000406	TCLP077	23/04/2008

		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)	4.60E-09	mbar	< 4E-08	3/4/2008		OK	
	Vacuum limit final test (CERN)	2.70E-09	mbar	< 4E-08	18/12/2013		OK	
	Outgassing	2.50E-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	39	µm	≤ 50		O.Aberle, B.Salvachua	OK	
	Surface Flatness BD	19	µm	≤ 50			OK	
Mechanical Stops Alignment	Gap across zero	AC	BD	mm	n/a	O.Aberle	OK	
		6.02	6.05					
	Max. gap end stops	AB	CD	mm	n/a		OK	
		60.00	59.99					
Min. gap end stops	0.38	0.38	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	18/6/14/5		µm	< 20	17/9/2013	OK	
	Max. Dynamic Torque at CERCA (A/B/C/D)	0.37/0.41/0.4/0.4		Nm	≤ 0.5	4/3/2008	OK	
	Max. Dynamic Torque at CERN (A/B/C/D)	0.23/0.25/0.23/0.29		Nm	≤ 0.5	16/09/2013	OK	
	Autoretraction	A	B	C	D	mm	n/a	17/9/2013
		0.008	3.205	0.015	0.017			
	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
		5.69	5.69				
	Max. gap switches	AB	CD	mm	≥ 58		
		59.38	59.34				
	Min. gap switches	0.48	0.50	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.4R5.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: 28/11/203

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