

E980142 00 · D

DRWG NO. REV. GID

OF₂ SHEET 1

COMPONENT SPECIFICATION

	APPROVALS:	DATE	REV	DCN NO	BY	СНК	DCC	DATE
DRAWN:	David Reitze	06-23-98						
CHECKED:								
APPROVED	:							
DCC RELE	ASE:							
Applica	ble Documents	I.	11 1				<u> </u>	
I	.IGO-D970594-00-D	S	teering N	lirror Substrate				
	LIGO-E970151-00-D		-	Steering Mirro				
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ъ .	<u>,</u>							
Require	ements							
Physical	Configuration							
Fabric	ate from							
I uome	LIGO-D970594-00-D		Steering]	Mirror Substrat	e			
			U					
Surface 2	and 2							
	Coating to be centered at 1		. ,.					
	Angle of Incidence to be 4	5 degrees, 5 pol	arization					
	Coating Uniformity:		1nm rms	- central 3 cm				
				v over 6.8 cm				
	Scatter:		<15 ppm					
	Absorption:		<1 ppm					
	Zero surface electrical field	d						
Sumface	D							
Surface	- •		antic - T					
	To comply with LIGO Con "Scratches and Point Defe	1 1	cation E	200093-A-D (P	age 2):			
	Coating to resist abrasion		.135080					
	Southing to resist abrasion	Cot per mini-mi	100000					
Surface 2	l: HR Coating							



LIGO lifornia institute of technology

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SHEET 2 OF₂ CONTINUATION SHEET

THE HIGH REFLECTIVITY STEERING MIRROR SUBSTRATE, COATED

Surface 2: AR Coating

Reflection:

< 300 ppm

NOTE:

- Coating manufacturer to provide:
- 1. One (1 in.) witness plate from each coating run
- 2. Spectrophotometer graphs of Reflectance and Transmittance of HR coating