E980068 00 - D DRWG NO. REV. GID

SHEET 1 **OF** 2

COMPONENT SPECIFICATION

TITLE

END TEST MASS SUBSTRATE, COATED

APPROVALS:	DATE	REV	DCN NO	BY	СНК	DCC	DATE
drawn: Helena Armandula	03-13-97	İ					
CHECKED:		İ					
APPROVED:							
DCC RELEASE:							

Applicable Documents

LIGO-D960791-A-D End Test Mass Substrate LIGO-E960102-A-D Substrate, End Test Mass

Requirements

Physical Configuration

Fabricate from

LIGO-D960791-A-D End Test Mass Substrate, 4K

Surface 1 and 2

Coating to be centered at 1064 nm Angle of Incidence to be 0 degrees

Coating Uniformity: 1nm rms - central 8 cm

15 nm p-v - over 20 cm

Scatter: <15 ppm Absorption: <1 ppm

Zero surface electrical field

Surface Quality

To comply with LIGO Component Specification E960093-A-D (Page 2):

"Scratches and Point Defects"

Coating to resist abrasion test per MIL-M-13508C

Surface 1: HR Coating

Transmission: <20 ppm

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COMPONENT SPECIFICATION END TEST MASS SUBSTRATE, COATED ON THE CONTINUATION SHEET

TITLE

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

LIGO Form CS-02 (4/96)