



SPECIFICATION

Fused Silica Blank, LASTI Compensation Plate

AUTHOR:	CHECKED:	DATE	APPROVALS		
			DCN NO.	REV	DATE
G. Billingsley	D. Coyne, Willems	12-12-06	E060275-00	A	12-12-06

Scope

The glass blanks defined by this specification are to be used in research as a LASTI compensation plate. This is not the final configuration for Advanced LIGO compensation.

Applicable Documents

LIGO - D060527-A Fused Silica Blank, LASTI Compensation Plate

Requirements

Material

Fused silica

Physical Configuration

According to
LIGO - D060527-A Fused Silica Blank, Input Test Mass

Clear Aperture

Central 275 mm

Final Shaping

Shaping shall be performed using a progression of grit size ending with a 320 or smaller grit tool

Defect Depth

Maximum on any surface or corner is less than 0.5 mm

Bubble and Inclusion Cross section

Total $\leq 3 \text{ mm}^2 / 100\text{cm}^3$ of Glass within the clear aperture
Inclusions with a diameter of 0.06 mm or less are disregarded

Maximum inclusion diameter

$\leq 1.5 \text{ mm}$



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Striae

Class 1, Grade A according to MIL-G-174 within the clear aperture

Inspection

Certification of the above requirements must accompany any delivery.