



CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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DRWG NO. REV. GID

SHEET 1 OF 2

COMPONENT SPECIFICATION

TITLE

SUBSTRATES, BEAM SPLITTER and TEST SAMPLES

APPROVALS:	DATE	REV	DCN NO	BY	CHK	DCC	DATE
DRAWN:				n/a	n/a	n/a	n/a
CHECKED:							
APPROVED:							
DCC RELEASE:							

Applicable Documents

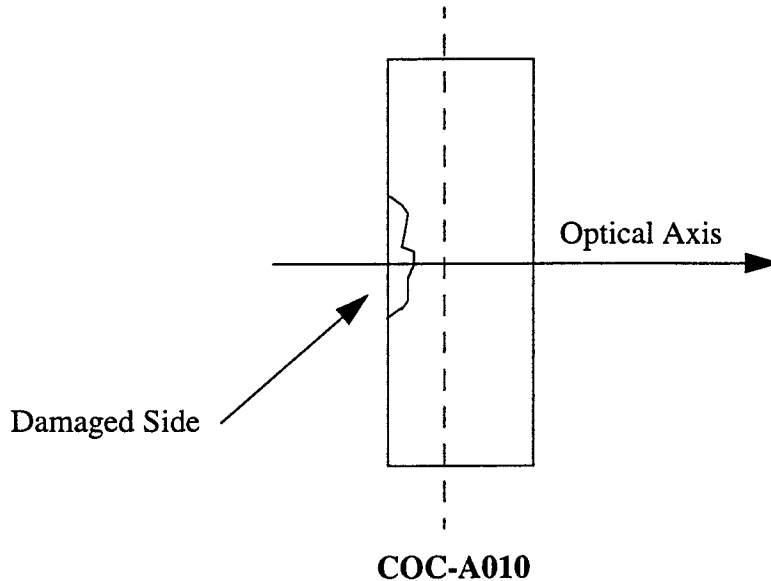
LIGO-D960793-A-D

Beam Splitter Blank

Requirements

Fabricate from damaged core optic blank SN. COC-A010: To be supplied by Caltech.
 Material: fused Silica, Corning 7980, Nominal Size 250 mm X 100 mm.

Cut damaged surface leaving both pieces intact.



From the undamaged piece fabricate:

Mirror blank in accordance with LIGO-D960793-A-D, Beam Splitter Blank. Out of tolerance diameter is acceptable. No arrow marking is necessary.



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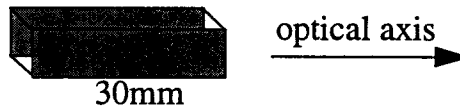
TITLE

SUBSTRATES, BEAM SPLITTER and TEST SAMPLES

From the damaged piece fabricate:

2ea 10 mm cube, Commercial polish on two sides, allowing transmission along the optical axis.

2 ea 10 mm square block. 30 mm on the long side, parallel to the optical axis. 10 mm on all other sides. Commercial Polish the two square faces as well as an opposing pair of rectangular faces.



2 ea 10 mm square block, 15 mm on the long side, parallel to the optical axis. 10 mm on all other sides. Commercial Polish the two square faces as well as an opposing pair of rectangular faces.



Return all material including surplus to LIGO.