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Drawing No

Rev. Group

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## ETM QUAD\_End Reaction Mass (ERM) component specification

#### **Applicable Documents** 1

This document supports the drawing:

D080116\_ALIGO\_SUS\_ETM QUAD\_End Reaction Mass (ERM)

### 2 Requirements

## Material

Fused Silica:

Corning 7980 5F

Or vendor preferred equivalent fused silica, subject to approval of LIGO scientists

NOTE: Material to be supplied with a certificate of conformity

## Physical configuration

Shape and polish according to:

D080116\_ALIGO\_SUS\_ETM QUAD\_End Reaction Mass (ERM)

## **Reference Markings:**

Registration Marks shall be etched, ground or sandblasted, and located per LIGO-D080116.

## **Serial Number:**

The Serial number shall be etched, ground or sandblasted, and located per LIGO-D080116.

# Inspection

Specification	Manufacturing note / drawing zone (LIGO-D080116)	Test Method	Data delivered
Outside diameter	(Zone C8)	Physical inspection	Measurement at six locations, plus mean measurement
Thickness	(Zone F5)	Physical inspection	Measurement at six locations, plus mean measurement
Wire groove separation	(Zone A6)	Physical inspection	Measured dimension
Face to wire groove check	-	Physical inspection	
Surface S3 to wire groove 1	Note 5	"	Measured dimension
Surface S4 to wire groove 2	Note 5	"	Measured dimension
Edges and chamfers	Note 3	Visual inspection	Inspection report included with certification
Scratches and point defects	Note 3	Visual inspection	Inspection report included with certification

## LASER INTERFEROMETER GRAVITATIONAL WAVE OBSERVATORY LIGO **COMPONENT SPECIFICATION**

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Serial Number	Note 6	Visual inspection	Inspection report included with	Τ
Seriai i vambei	11010 0	visual inspection	certification	

Table 1: Inspection requirements list

## Data

To be taken as instructed in Table 1.

Instrumentation used for any given measurement should be listed alongside that measurement.

## Orientation

For the purpose of all data collection, data should be taken where possible from side 1 (surface S1). If this is not possible there shall be a special note beside the data indicating from what direction/how it was taken.

## **Format**

All data shall be delivered according to Table 1.