

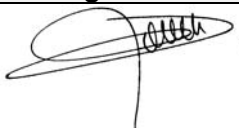




Herschel – SPIRE

SPIRE MIRRORS

Mechanical mounting procedure

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	STM mirrors ADP		X								



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1 Introduction

This document gives the procedure to be applied for the integration of the SPIRE mirrors on the SPIRE optical bench.

2 Reference Documents

no.	document name	document number, Iss./Rev.
RD 1	SPIRE Optical alignment plan	LAM.QUA.SPI.PR.V.030023

3 Necessary Tools

- ✓ 13 mm Hexagonal socket
- ✓ Torque wrench calibrated at 2Nm
- ✓ Alcohol

4 Mounting Procedure

- ✓ Take the mirrors out of the containers respecting the order of integration on the optical bench given in RD1
- ✓ Integrate the mirror on the Interface taking care at the location of the dowel pin
- ✓ Integrate 2 spring washers in parallel mounting, the small diameter being oriented toward the interface part and the large diameter toward the hexagonal nut
- ✓ Integrate a flat washer
- ✓ Pour alcohol over the threaded part of the mirrors
- ✓ Integrate immediately the nut and screw it until contact
- ✓ Tighten the nut, with the torque wrench equipped with the 13 mm hexagonal socket at the torque of 2 Nm.
- ✓ Proceed with the next mirror