

CU-ISC-OSC DRAWINGS

INTRODUCTION

On this page I'm uploading 2D/3D drawings of the CU-ISC and OSC configurations.

LIST of configurations:

1) CU-ISC Test Configuration

CU-ISC test configuration is a result of the final setup in the T9 beam test area (see setup photos at [Geometry](#))

2) CU-ISC Handling Configuration

3) CU-ISC Shipping Configuration

4) CU-ISC-OSC Shipping Configuration

NOTES

Drawings are created from CU-ISC and OSC I-DEAS models combining design dimensions with final setup measurements, than they are translated to pdf, dxf and other formats.

CU/ISC 2D DRAWINGS

ACD TILES position (2D drawings)

Drawings created combining Moiseev-Ylinen and INFN-Pisa Team measurements.

PDF version:

[CU-ISC_setup_test_config_ACD_Tiles_position_2D.pdf](#)

DXF version:

[037xx-003-001_CU_ACD_TILES_POSITION.dxf](#)

NOTES

see also ACD tiles photos and dimensions at [Geometry](#)

CALs-Trackers and Theodolite Targets position (2D drawing)

Targets and Instruments distances are given with respect to ISC base plate -X/-Z borders.

CALs distances are measured wrt Csl layers (see note below).

CALs distances IMPORTANT NOTE:

1. Consider that each Csl crystal has a wrapper around 0.75mm thick.

This wrapper thickness must be subtracted to have the exact distances.

Hext (Csl layer height)=21.34mm

Hint (Csl crystal height)=19.9mm

DH=Hext - Hint=1.44mm --> wrapper thickness=0.72mm

2. At each Csl crystal end there are both gap and endcap.

The gap+endcap length is around 6mm (the length is variable referring to NLR drawings, link below)

Lext (Csl layer length)=338mm

Lint (Csl crystal length)=226mm

DL=Lext - Lint=112mm --> gap+endcap length=6mm

PDF version:

[037x7-001-001CU_Theodolite_TARGETS-INSTRUMENTS_POSITION.pdf](#)

DXF version:

[037x7-001-001CU_Theodolite_TARGETS-INSTRUMENTS_POSITION.dxf](#)

NOTES:

CAL Csl crystals drawings can be found here: [NRL CALs drawings](#)

CU/ISC 3D DRAWINGS

The following CU/ISC 3D drawings can be viewed (not measured) with Acrobat Reader 7.08.

Direct measurements can be taken using Acrobat 3D, available only for Windows OS (30 days trial version downloadable here <http://www.adobe.com/products/acrobat3d/tryout.html>).

PDF version:

[CU-ISC_design_test_config_3D.pdf](#)