GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
SOLID STATE PHYSICS DIVISION

Ref: BARC/ SSPD/2018/ 569

April 23, 2018

Sub: Minor fabrication: Invitation for quotations for ***Fabrication and installation of neutron collimators and detector nose on Powder diffractometer-I at Dhruva reactor, BARC.***

Quotations are invited for materials as given in attached specification sheet.

Kindly submit your offers along with detailed terms and conditions to ***Head, Solid State Physics Division, BARC, Mumbai-400085*** on or before ***7th May 2018*** in a sealed envelope super scribed with the above reference number and due date given above by Indian post only.

The address on the envelope should read: Head, Solid State Physics Division, BARC, Mumbai-400085. Attn: Dr. A. K. Bera

Terms and conditions:

1) The items should be delivered only after pre-despatch inspection carried out to the users' satisfaction for acceptance and for certification of the completion of this order, in all respects.
2) **Delivery**: This work order shall be executed within three months from the date of its receipt; the work order may please be acknowledged. **Material is to be delivered to** North Gate, BARC, Mumbai - 400085.
3) **Guarantee:** Items supplied/work executed shall be guaranteed against quality material/workmanship for satisfactory intended operation, for a period of 12 months from the date of execution of this order.
4) Taxes and excise duties shall be quoted separately.
5) **Payment terms:**
   Payment in general is made within 30 days of the completion of the order and on production of bill in triplicate along with an advanced stamp receipt for the bill amount and guarantee certificate referred to (3) above.
6) Head, SSPD reserves the right to accept /reject any or all quotations without giving any reason.
7) Confidentiality & Publicity Clause
   No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractor, consultants, advisers or employees engaged by a party with equal force.
8) **"Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under Section 5 of the Official Secrets Act, 1923**:-Any contravention of the above-mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.
9) **Prohibition against use of BARC's name without permission for publicity purposes:-**The contractor or sub-contractor, consultant, advisor or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, T.V or Internet without the prior written approval of BARC.

Enclosed: Specifications of material and drawing of detector nose and collimator.

Md. Yusuf 23.4.2018

Head
Solid State Physics Division

डॉ. एस.एम. यूसुफ/Dr. S. M. Yusuf
अध्यक्ष, एस.एस.पी.डी. /Head, SSPD
भारत सरकार, भा.प.अ.केंद्र/Govt of India, BARC
ट्रॉम्बे, मुंबई ४०००८५/Trombay, Mumbai 400085

Annexure
Specification for neutron beam collimators and detector nose for powder diffractometer 1, Dhruva, BARC

Details of the component (specifications and drawings are attached)

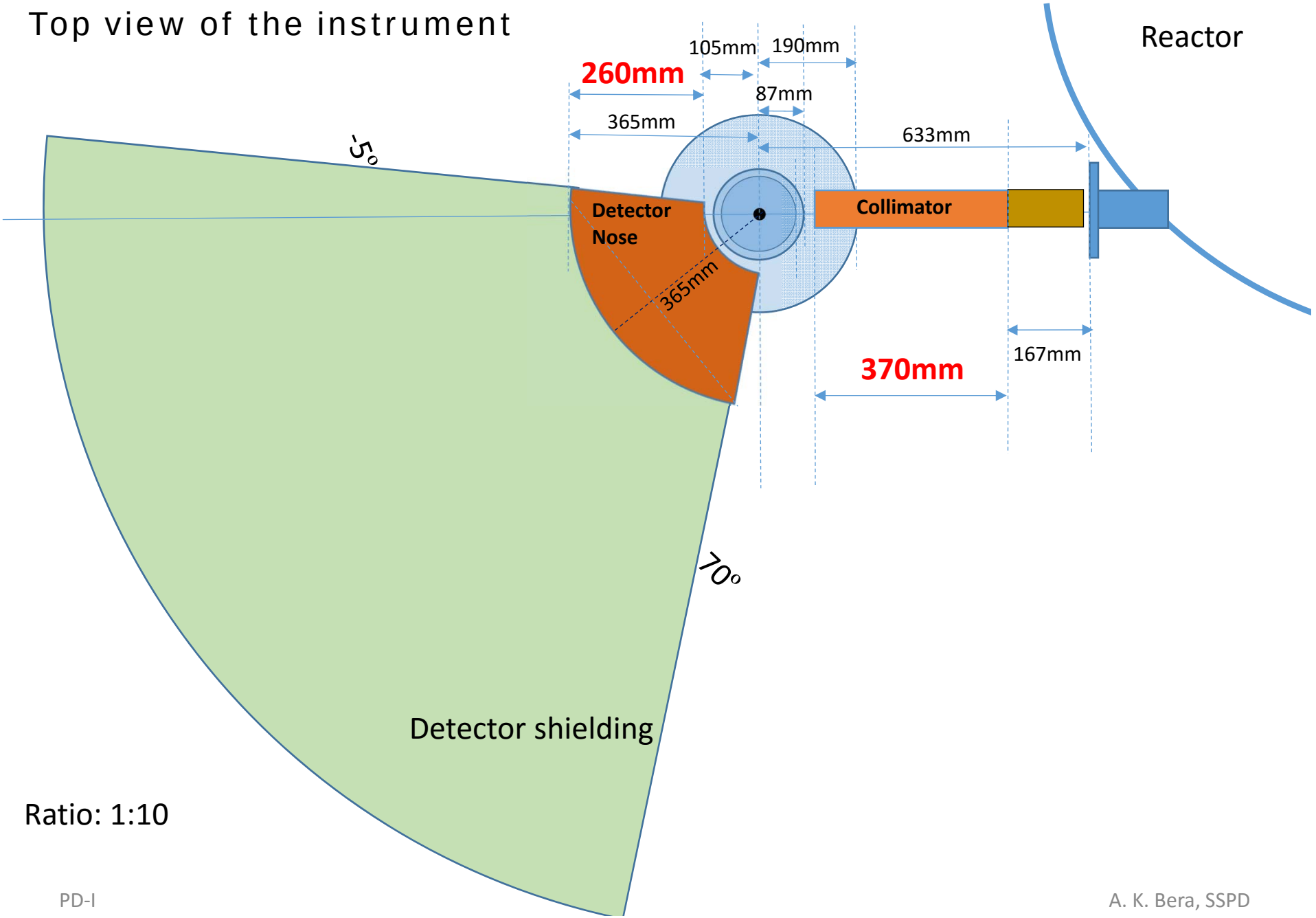
1. Detector Nose — No.1
2. Neutron beam Collimator-1 (SS sheet) — No. 1
3. Neutron beam collimator-2 (Kapton foil) — No. 1

For details and clarification please contact

Dr. A. K. Bera, SSPD, BARC
Phone: 022 25594292
Email: akbera@barc.gov.in

Specification for Neutron beam collimator and detector Nose for PD 1

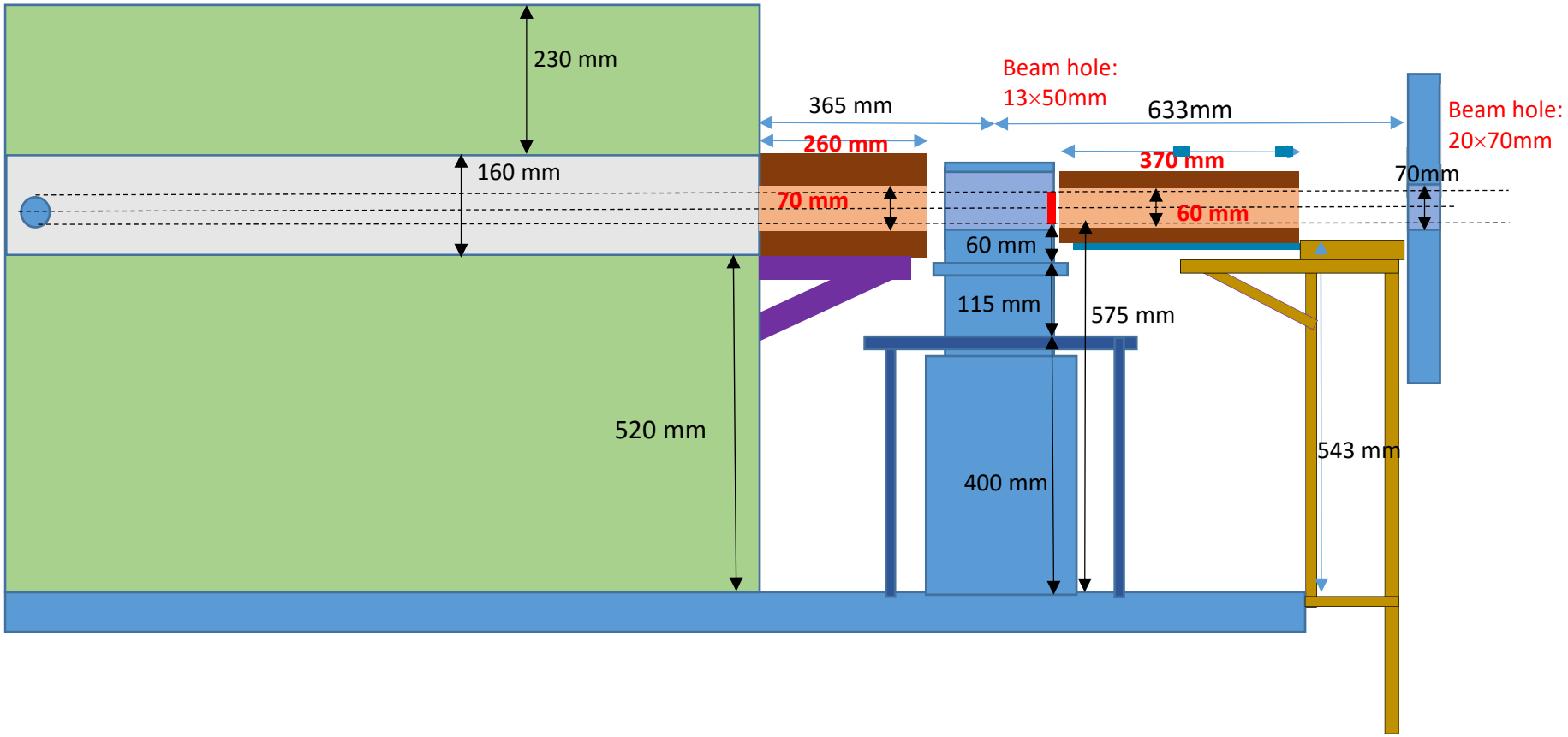
Top view of the instrument



Ratio: 1:10

Specification for Neutron beam collimator and detector Nose for PD 1

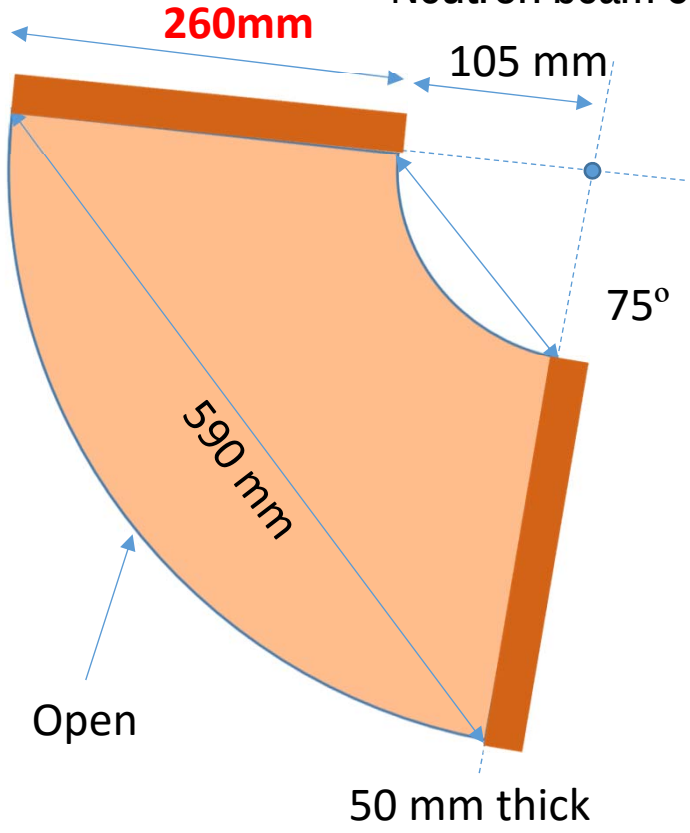
Neutron beam collimator for PD 1 cross-section view



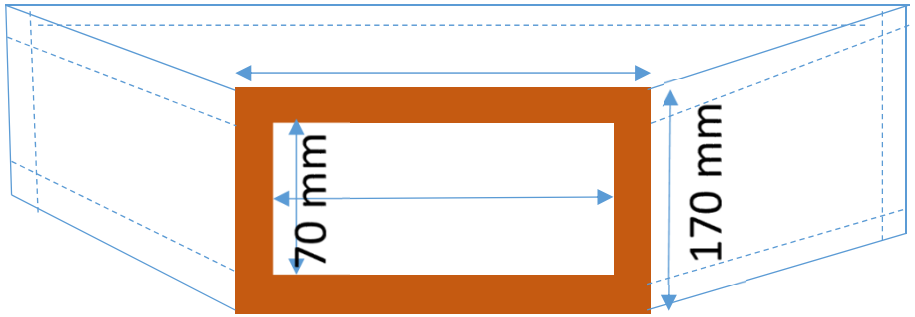
Ratio: 1:10

Specification for Neutron beam collimator and detector Nose for PD 1

Neutron beam collimator for PD 1



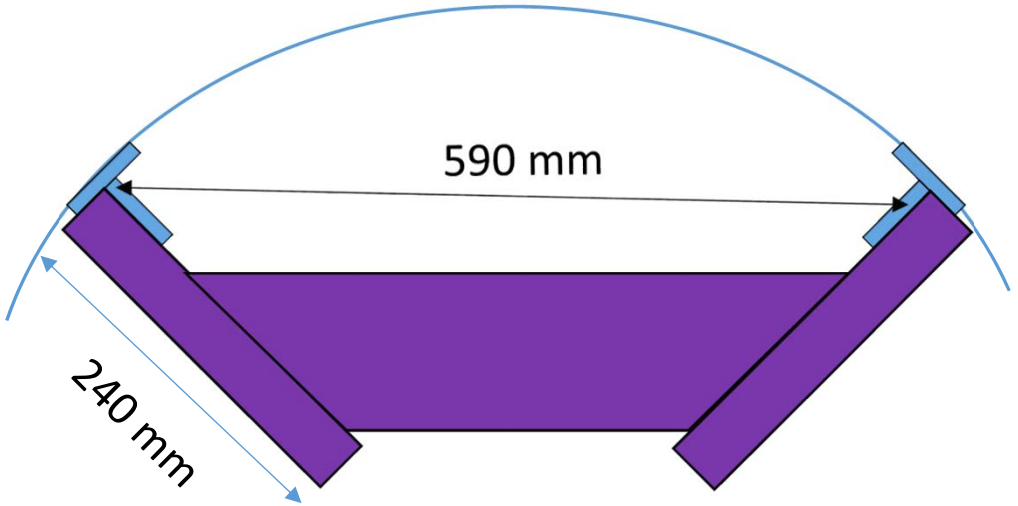
Detector Nose



Material: Borated Polyethylene (boron 30 % or above)

Detector Nose should be made inside a chrome polished SS304L case

Top view of Stand

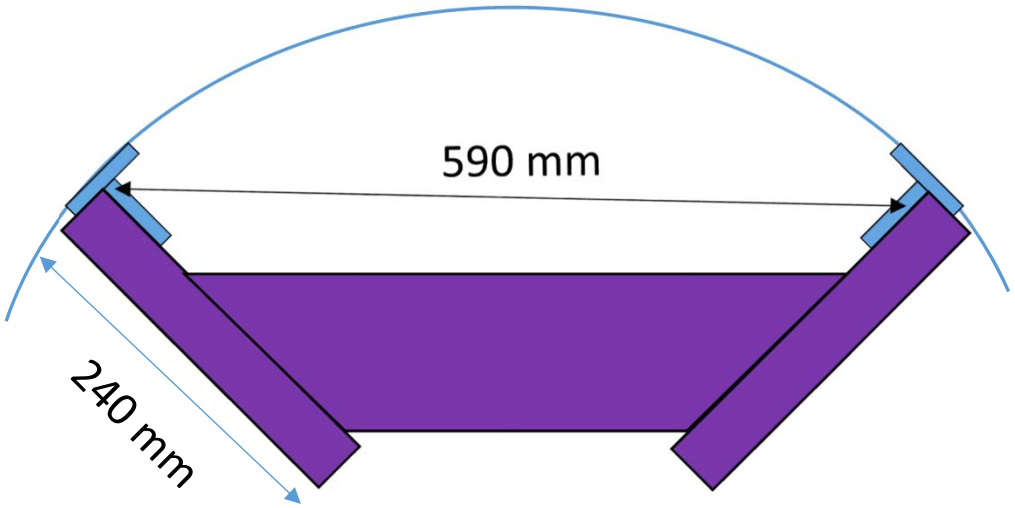


Stand Material: SS304L

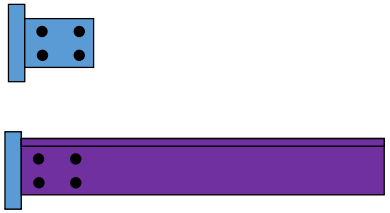
Specification for Neutron beam collimator and detector Nose for PD 1

Neutron beam collimator for PD 1

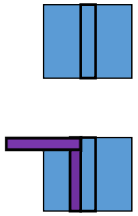
Top view of Stand



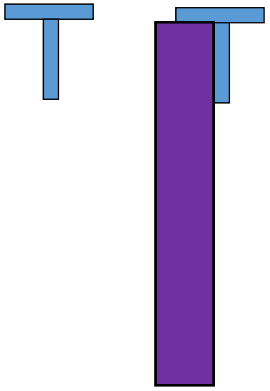
Side view



Front view



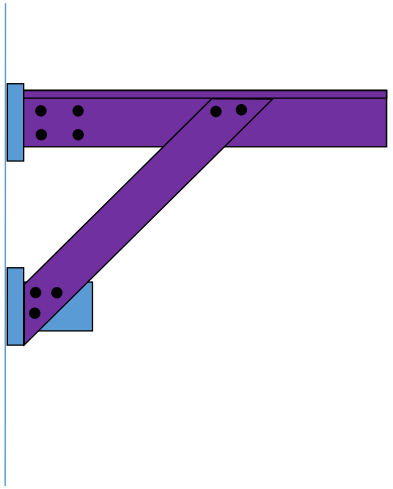
Top view



Stand Material: SS304L

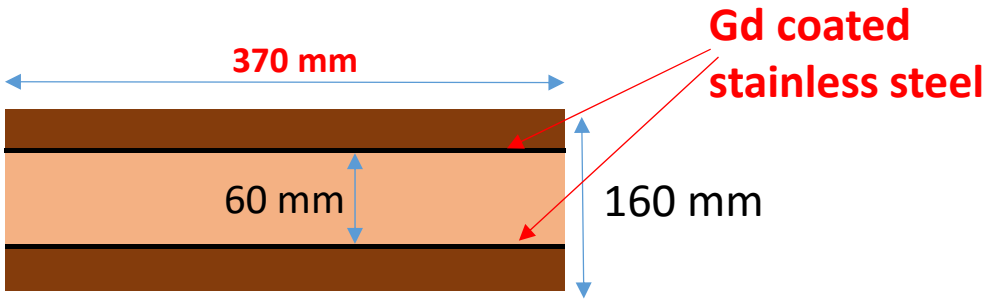
Detector Nose stand

side view of Stand

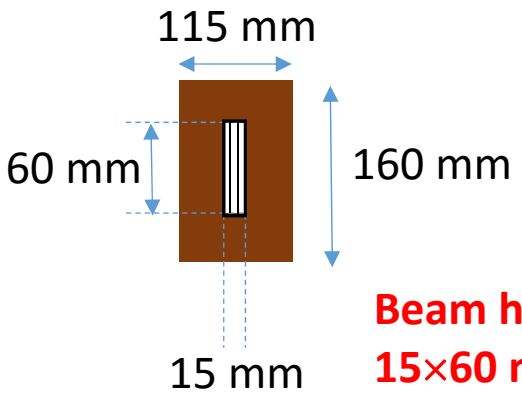


Specification for Neutron beam collimator and detector Nose for PD 1

Neutron beam collimator

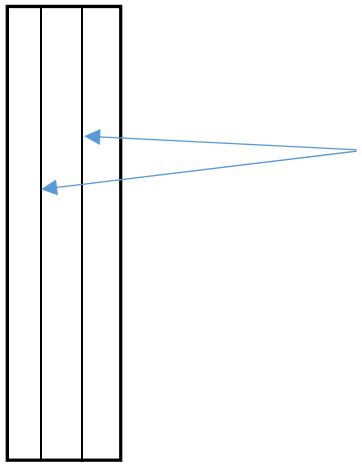


Borated Polyethylene (boron 30 % or above)



Beam hole:
15×60 mm

Gd coated stainless steel @ 1 mm



Beam hole:
15×60 mm

Collimator-1. :
Gd coated stainless steel sheet@ 0.2 mm

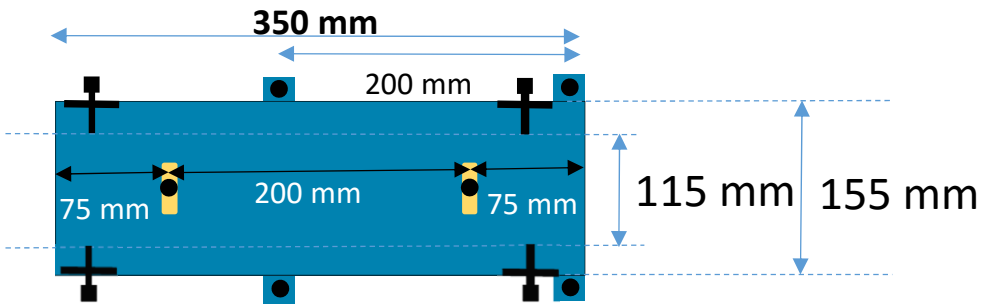
Collimator 2.:
Gd coated Kapton foil @ 0. 1 mm

Beam collimator should be made inside a chrome polished SS304L case

Specification for Neutron beam collimator and detector Nose for PD 1

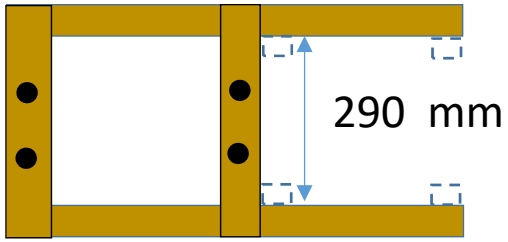
Neutron beam collimator for PD 1

Top view of Stand



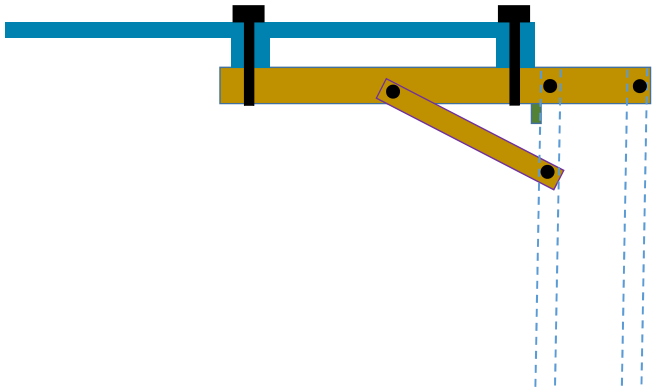
side view of Stand

Top view: Attachment with beam stopper stand

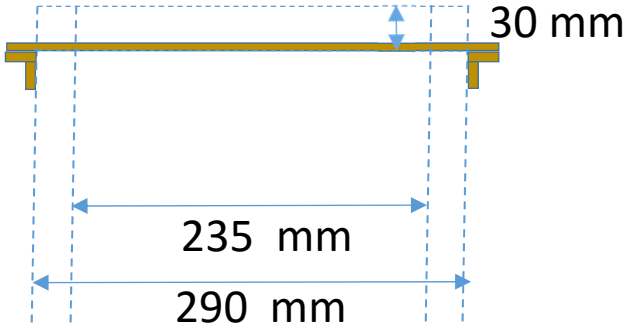


Collimator stand

Side view: Attachment with beam stopper stand



Front view: Attachment with beam stopper stand

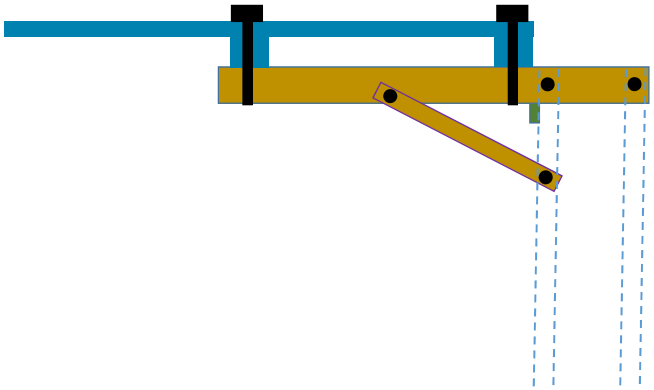


Stand Material: SS304L

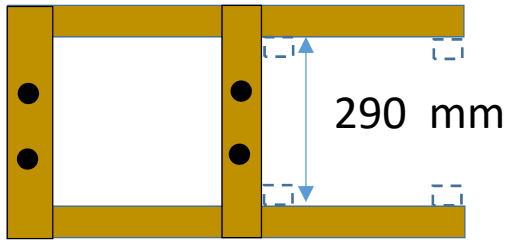
Specification for Neutron beam collimator and detector Nose for PD 1

Neutron beam collimator for PD 1

Side view: Attachment with beam stopper stand



Top view: Attachment with beam stopper stand



Collimator stand

Front view: Attachment with beam stopper stand