

Mechanical Issues on the QBB Design: Suzuki July 17th
(updated with replies to Jim Fast's questions)

Have continuous side rails w/uniform XS => Agreed and adopted.

Avoid the use of small screws in shear => This consideration was refuted.

Prism seal, shape and chamfers => This is an ongoing exercise.

HV insulation of the PMTs=> Kapton sheet will be used.

Keyed side rails=> Already implemented.

Consider optical cookie rather than grease=> Requires straight Z travel.

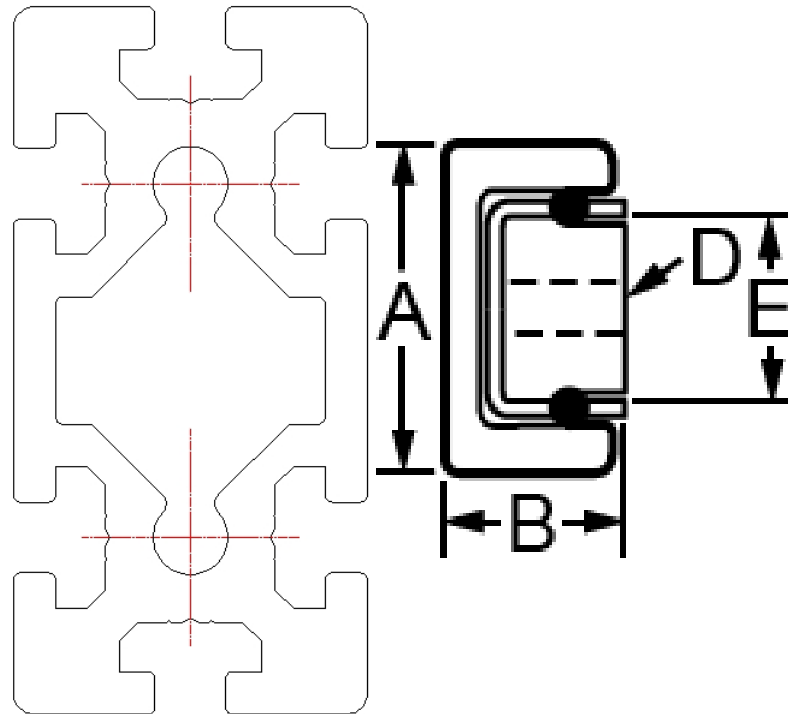
Summary of B2GM12-BPID: Suzuki Mechanics, July 23rd.

- Window and gas seal design for isolation is under study and a table has been compiled regarding the physics impact.
- The latest integrated design from Kohriki-san is dated 02/29/12.
- Two new QBBs are being prototyped, one has flat panels, and the other is arched and referred to as the C-panel type.
- There is discussion if the end of the QBB that contains the expansion volume should become a box rather than tapered.
- Prototype Z-beams will be used to form the “Roman Arch.”
- The Nagoya engineering group has met with the KEK engineering group at KEK on July 11-12, 2012.
- There is 3D CAD of an intended integration scenario for BPID modules to be inserted into Belle II.

Mechanical Issues and CRT Progress: Suzuki July 29th.

- The most critical aspect of the CRT is proof of concept.
- The 16ch CFD readouts are supposed to be ready by Aug 31.
- It is important to be able to show progress for the Focused Review, Oct 1-2.
- The LEPS beam will be available on Oct 2nd – 9th.
- The LEPS module will not have an expansion volume.
- Two schedule options are shown A & B. A is too aggressive, B seems doable.
- The strong backs for the TOP counters need further design and FEA.
- The height of the range stack is not significantly reduced by using Pb.
- There is some consideration to having a movable range stack on rails.
- Rail sets have been identified for both the range stack and TOP counters.
- There is discussion re making a “quick temporary” CRT for the LEPS module.

Possible slide mounting: switch from 100 x 100mm extrusion to 100 x 50mm on short horizontal bars, to allow for width of slide rail (no scale in this slide).



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