

Mount stabilization for Shintake monitor-6

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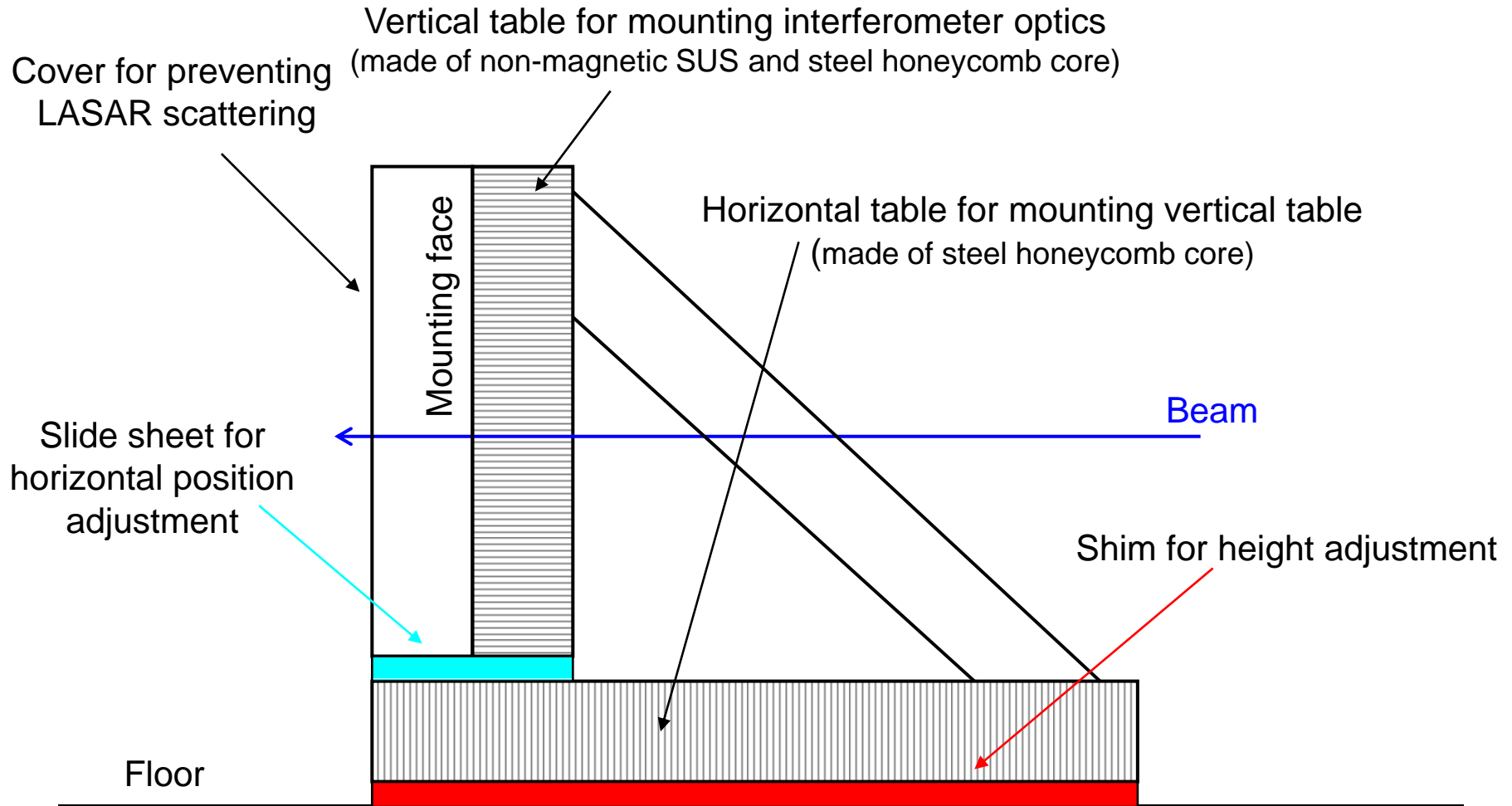
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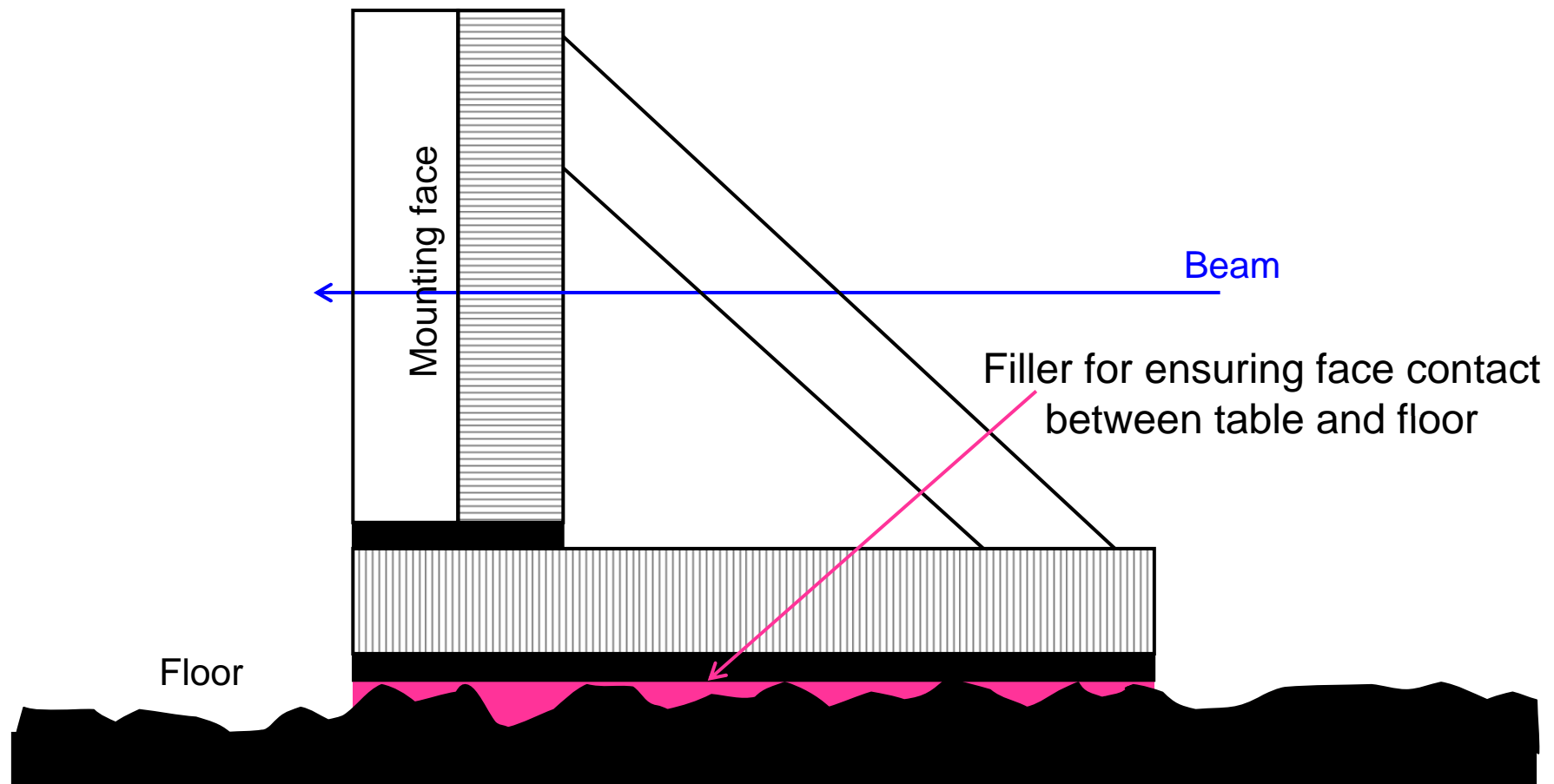
Specifications expected for new table support

- ~10nm of amplitude for incoherent vibration with floor
 - >Use steel honeycomb core (<Al), thicker (110mm->250mm)
 - >Highly ridged mount on floor without any insulator
- ± 5 mm of height adjustable range with accuracy of ± 1 mm
 - >Shim between table mount and floor
- ± 2.5 mm of horizontal position adjustable range perpendicular to beam with accuracy of ± 1 mm
 - >Slide sheet between vertical table and horizontal table

Position and height adjustment by using slide sheet and shim

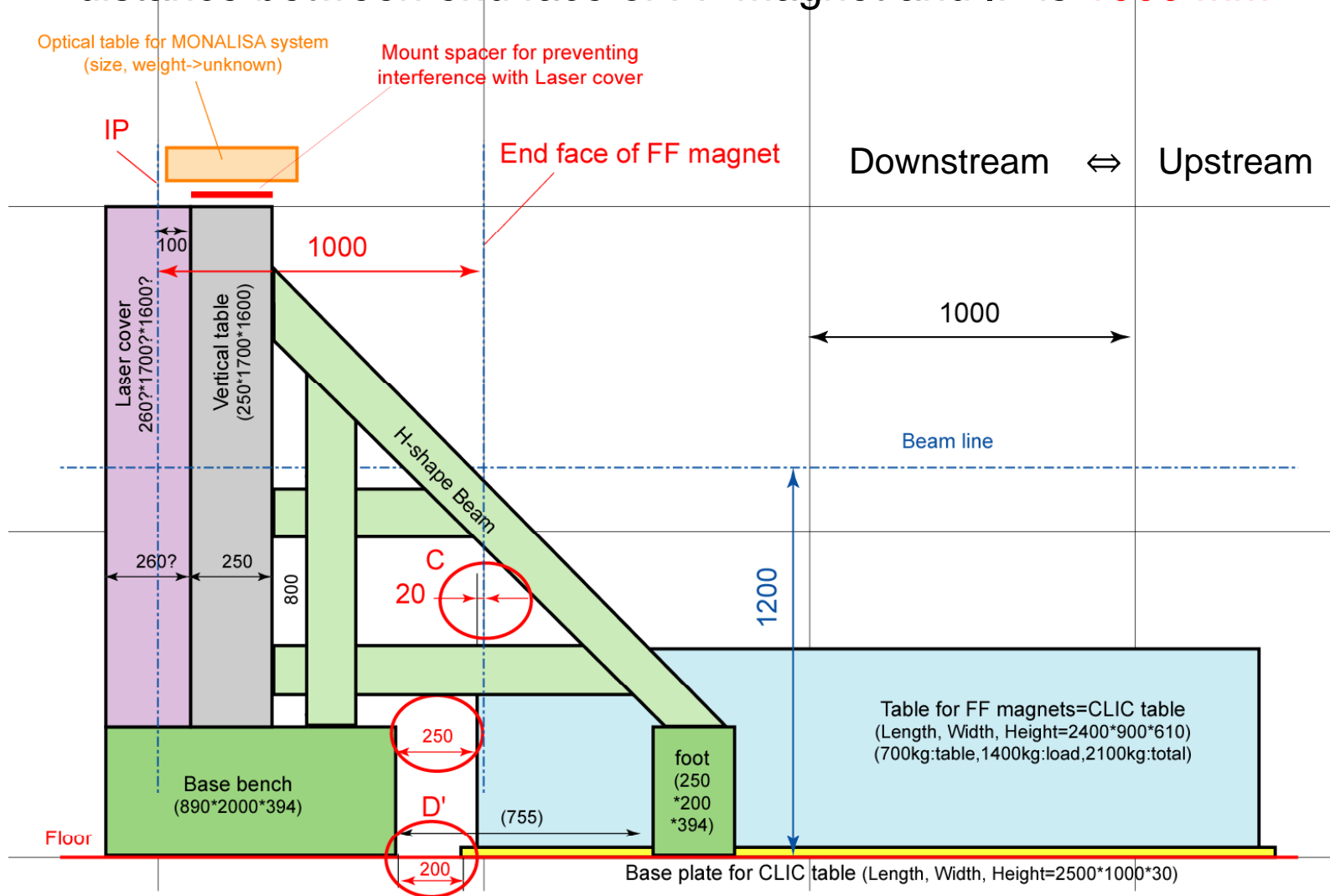


Method for ensuring face contact on floor by using filler (clay?)



Shintake monitor mount-side view

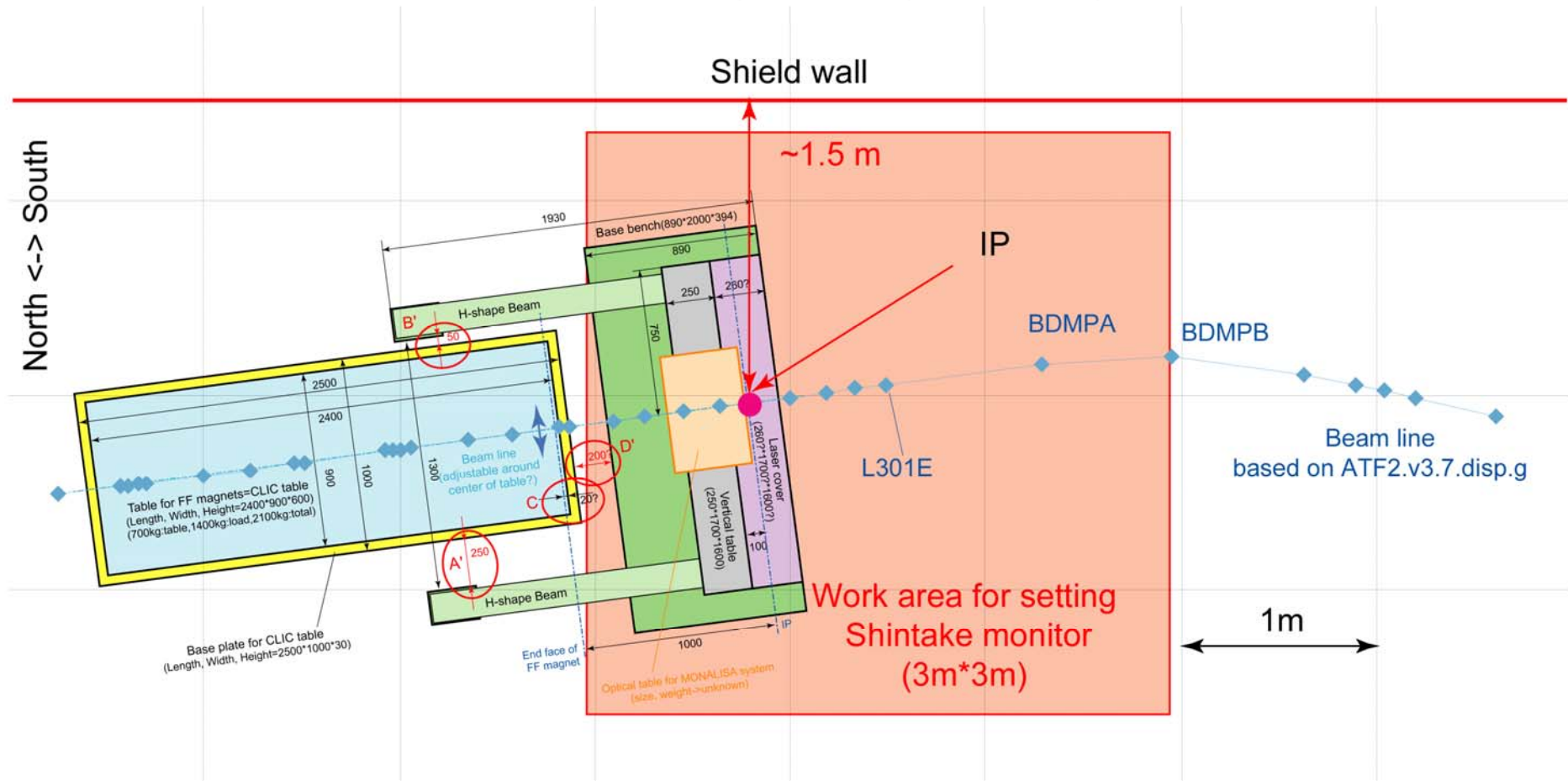
assuming distance between end face of CLIC table and FF magnet is **20 mm**,
 distance between end face of FF magnet and IP is **1000 mm**



Shintake monitor mount-top view

assuming beam goes center of CLIC table

East (Upstream) <-> West (Downstream)



Plan

- Make new optical table and mount (end of Feb.,2008., by Herz co.)
- Put new table and mount on IP (end of Feb., 2008., by Herz co.)
- Align laser optics on the new table and test optics
(~Sep.?, 2008. by U.Tokyo & KEK)
- Vibration measurement and adjustment (~May?, 2008., by Herz co.)

Schedule

	2007	2008								
	Dec	Jan.	Feb	Mar	Apr	May	Jun	Jul	Aug	
Overall	Make			Laser optics install & test						
Univ. of Tokyo & KEK	Design & make laser cover			Install laser optics		Optics test				
HERZ Co. LTD.	Make new optical table & table mount			Install	Vibration measurement					