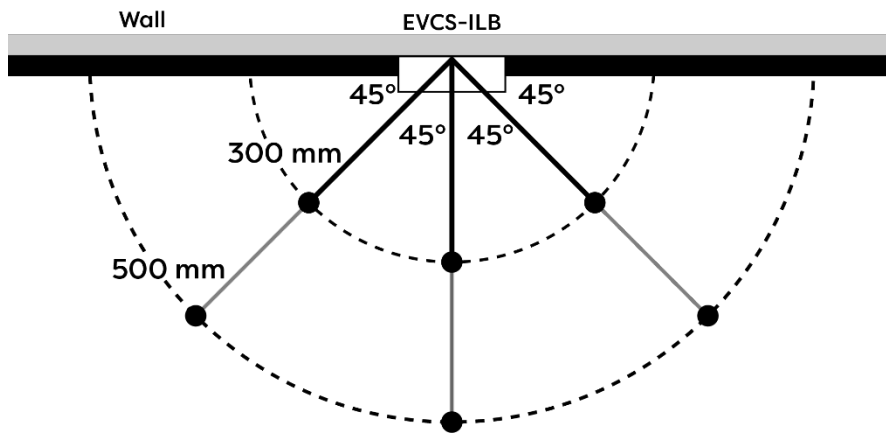
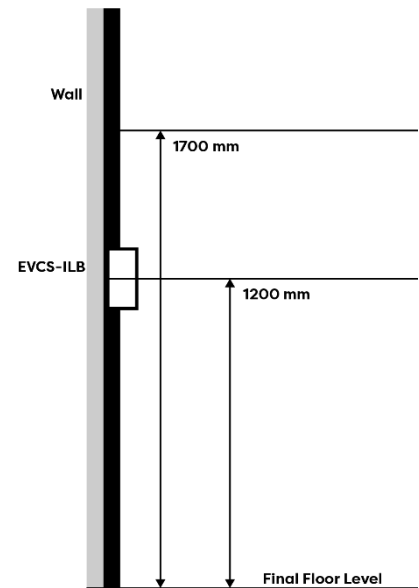


Regarding the size and orientation of the EVCS-ILB Type B Outstation with Integral Induction Loop

In BS 5839-9:2021, if an induction loop is provided, it must perform as required in BS 7564 (superseded by PD IEC R 63079) which requires the field to meet the requirements of BS EN 60118-4 at the measuring points described in section 11.7 figure 1 and at the heights described in figure 2.



Section 11.7 Figure 1



Section 11.7 Figure 2

As the audio frequency induction loop is basically a primary of a transformer, with the secondary coil in the hearing aid, it follows basic magnetic field theory.

Since the field of interest is the horizontal one, this is related to the width of the radiating coil- hence the width of the unit being 350mm means the field created at 300mm of 100mA/M will decay by < 6dB at 500mm which meets the requirements of BS EN 60118-4.

Making the unit smaller will mean it will no longer meets the field strength set by BS EN 60118-4 meaning the unit is non-compliant, and more importantly no use to the person requiring the induction loop facility, breaching the requirement of the Equality Act 2010