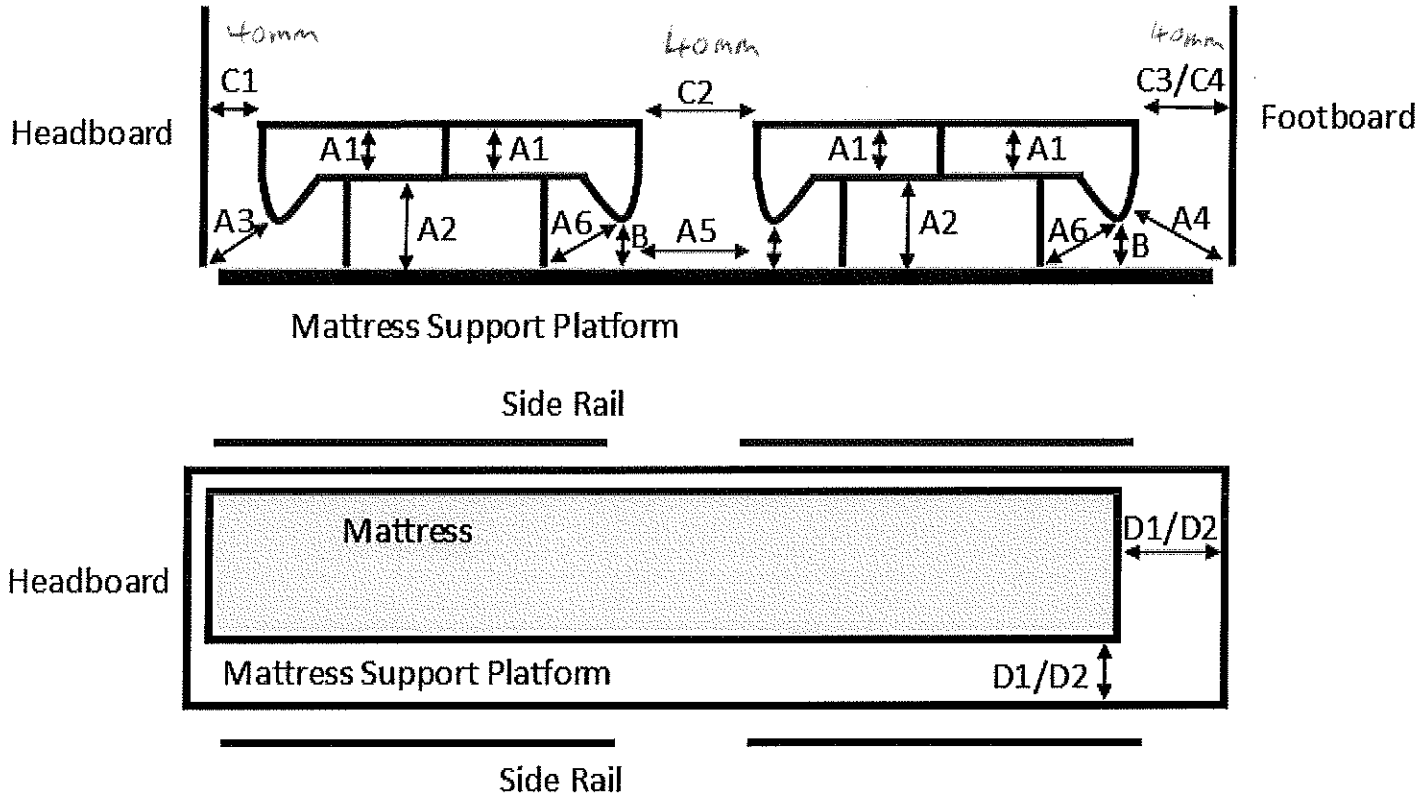
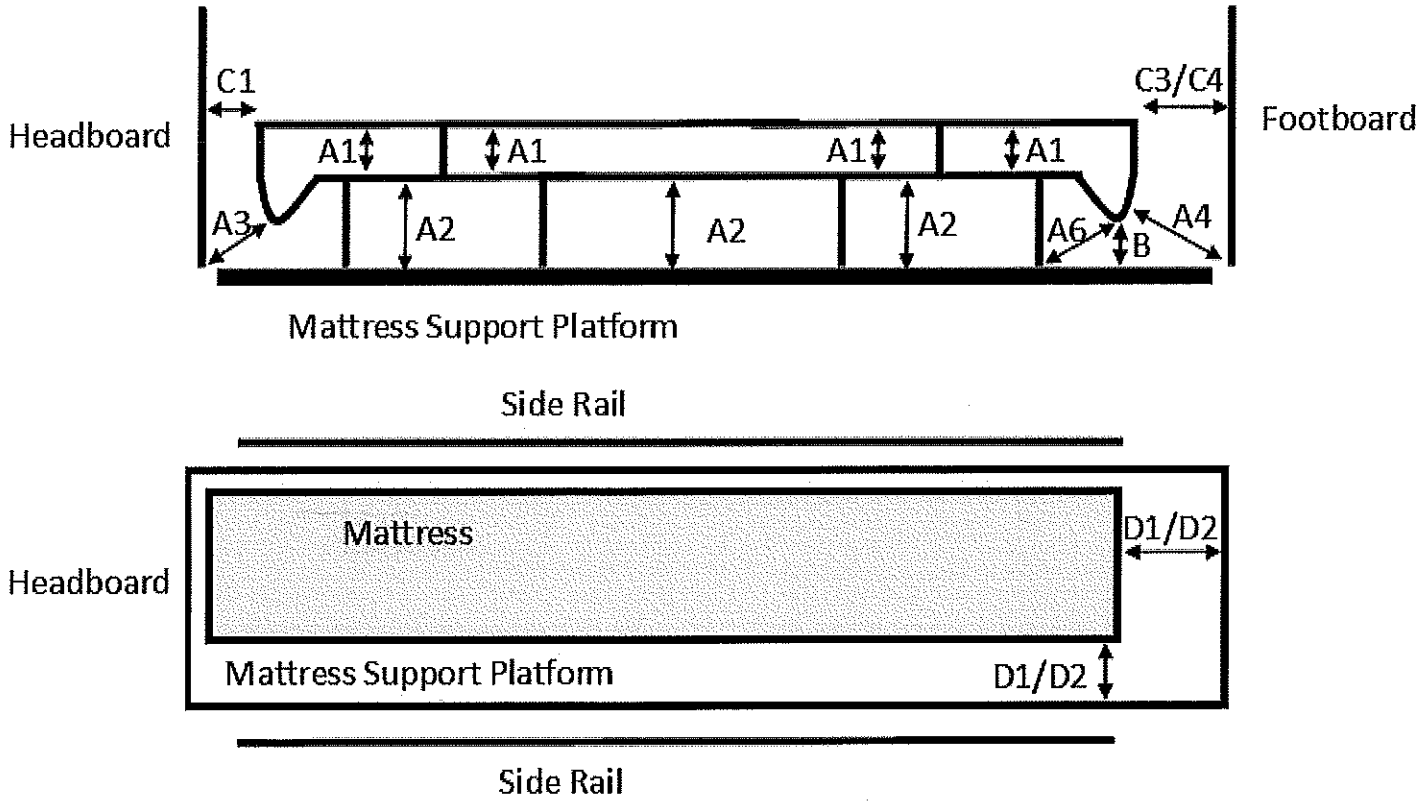
Split Rail Beds



Single Rail Beds



Appendix 3 – Bed Rail Dimensions in BS EN 50637:2017 Medical electrical equipment. Particular requirements for the basic safety and essential performance of medical beds for children.

Description	Diagram Reference	BS EN 50637:2017	Notes
Fully enclosed openings within a side rail, head/foot board, mattress support platform	A1	<60mm	
Fully enclosed opening defined by the side rail, its supports and the mattress support platform	A2	<60mm7	
Partially enclosed opening defined by the head board, mattress support platform and side rail	A3	<60mm	
Partially enclosed opening defined by the foot board, mattress support platform and side rail	A4	<60mm	Except when gap between side rail and foot board is >300mm
Partially enclosed opening between segmented or	A5	<60mm	Except when gap between

Description	Diagram Reference	BS EN 50637:2017	Notes
split side rail and the mattress support			side rails is >300mm
Partially enclosed opening defined by lowest point of a side rail, the adjacent side rail support and mattress support platform, to the outside of the side rail supports	A6	<60mm	
Other openings defined by accessories (e.g. IV poles, fracture frames) and side rails, head or foot boards and or mattress support platform. Not shown in figures.	A	<60mm	
Distance between mattress support platform and the lowest point of the side rail outside the side rail support AND The angle between the side rail and mattress support platform at the range of the mattress height defined by the manufacturer ± 2 cm	B	<40mm AND Angle between mattress support platform and side rail interface >75° over the entire range of mattress heights from minimum recommended height minus 2 cm to the maximum recommended mattress height plus 2 cm.	

Description	Diagram Reference	BS EN 50637:2017	Notes
Gap between head board and adjacent side rail	C1	<40mm	
Gap between segmented or split side rails with both side rails raised	C2	<40mm OR >300mm	
For a gap >300mm: the gap shall be >300mm or <400mm for the entire vertical distance			
For all medical beds except junior beds: gap between side rail and foot board. Other openings defined by accessories (e.g. IV poles, fracture frames etc.) and side rails, head board, foot board, and or mattress platform	C3	<40mm	
For junior beds: gap between side rail and foot board. Other openings defined by accessories (e.g. IV poles, fracture	C4	<40mm OR >300mm	

Description	Diagram Reference	BS EN 50637:2017	Notes
frames etc.) and side rails, head board, foot board, and or mattress platform			
For a gap >300mm: the gap shall be >300mm or <400mm for the entire vertical distance			
Region defined by side rail/head board/foot board and the mattress for cribs and cots	D1	Perform test	Cone tool does not sink below the mattress surface by 50% or more of its 60mm diameter.
Region defined by the side rail/head/foot board and the mattress for junior beds and oversize cots	D2	Perform test OR Gap between side rail/head/foot board and mattress <30mm	
Cone tool does not sink below the mattress surface by 50% or more of its 60mm diameter.			

Note that 50637:2017 defines different sized beds: cots, oversized cots, cribs and junior beds. Please see the text of the standard for full definitions or contact the manufacturer of a particular bed in your control that complies with this standard.

Compliance to this standard requires the use of specific measurement tools, rather than basic distance measurements alone. It is intended to be used by manufacturers. For this reason, it is recommended that end users do not use solely these measurements as the sole basis for evaluating suitability of a bed rail installation.

BS EN 50637 rail gaps