

	A	B	C	D	E	F	G	H	I	J	K	L	M	AB	AC	AD	AE	AF	AG	
1	<b>RVAR and PRM TSI Compliance</b>										Compliance achieved	Compliance achieved								
2											Non-compliance accepted	Non-compliance accepted								
3	<b>Class</b> 150 213										Compliance expected	Compliance expected								
4	<b>Operator</b> ATW										Compliance expected	Compliance expected & within existing scope of works								
5	<b>Date</b> 14-Nov-08										Compliance expected	Compliance expected but not all								
6	<b>ROSCO</b> Porterbrook										Compliance expected	Compliance expected but more expected								
7	<b>Note: The DFT conducted the Class 150 targeted compliance survey on the unit detailed above. However, the targeted compliance requirements detailed in column 'M' are generic across all Class 150 units.</b>										N/A	Not applicable								
8											?	Unclear - to be checked								
9																				
10																				
11																				
12	<b>Accessibility Standards</b>										Class : 150-2 DMU									
13											Operator : Arriva Trains Wales									
14	<b>RVAR</b>			<b>PRM TSI</b>							<b>DFT expectations of compliance by 1 Jan 2020</b>		<b>Angel Trains Fleets Compliance will be achieved?</b>			<b>Dispensation Requirements</b>				
15	<b>Regulation No.</b>	<b>Requirement(s)</b>	<b>Clause No.</b>	<b>Requirement(s)</b>	<b>Compliant</b>	<b>Compliant</b>	<b>Comments</b>	<b>Compliant</b>	<b>Compliant</b>	<b>Comments</b>	<b>Compliant</b>	<b>Compliant</b>	<b>Class 150/0</b>	<b>Class 150/1</b>	<b>Class 150/2</b>	<b>Supporting commentary</b>	<b>Yes/No</b>	<b>Actions</b>		
16	<b>Doors</b>																			
17	4(1)	Each passenger doorway in the side of a regulated rail vehicle shall be indicated clearly by doors (including any window or control device on the doors) rendered in contrast with the exterior of the vehicle to each side of that doorway.	4.2.2.4.2.1 para 3	External doors shall be painted or marked on the outside in a way that gives a contrast to the rest of the vehicle body-side.	Y	Y				Ensure livery is compliant	Compliance achieved	Yes	Yes	Yes	Livery is not being changes during PRM modifications and is compliant.	No				
18	4(2)	Each passenger doorway in the side of a regulated rail vehicle shall be fitted with an audible warning device which shall emit warning sounds in accordance with paragraph (3) inside and outside the vehicle in the proximity of each control device for that doorway or, if there is no such control device, adjacent to that doorway.	4.2.2.4.2.1 paras 7-10	When a door is enabled for opening a signal shall be given that is clearly audible to persons inside and outside the train. This alert signal shall sound for a minimum of five seconds unless the door is operated, in which case it may cease after 3 seconds. This requirement is not applicable for external audible signals on high speed Class 1 and Class 2 trains. When a door is automatically or remotely opened by the driver or other member of the traincrew, the alert signal shall sound for a minimum 3 seconds from the moment that the door starts to open.	N	N	No external sounders fitted No release sound. Audible door closure warning given.				Compliance not achieved	Yes	Yes	Yes	An EAO supplier sounder is incorporated within the external door control panel. The sounder emits a compliant audible warning for five seconds once the door control had been enabled.	No				
19	4(3)	The audible warning device shall:-																		
20	4(3)(a)	(a) emit a distinct sound for a period of not less than 3 seconds commencing when the door becomes operable by a passenger;	4.2.2.4.2.1 paras 7 & 8	When a door is enabled for opening a signal shall be given that is clearly audible to persons inside and outside the train. This alert signal shall sound for a minimum of five seconds unless the door is operated, in which case it may cease after 3 seconds. This requirement is not applicable for external audible signals on high speed Class 1 and Class 2 trains. When a door is automatically or remotely opened by the driver or other member of the traincrew, the alert signal shall sound for a minimum 3 seconds from the moment that the door starts to open.	N	N	No sound on release				Compliance expected	Yes	Yes	Yes	An EAO supplier sounder is incorporated within the external door control panel. The sounder emits a compliant audible warning for five seconds once the door control had been enabled.	No				
21	4(3)(b)	(b) if the door is operated by a member of the operator's staff, emit a different distinct sound commencing not less than 2 seconds before the door starts to close.	4.2.2.4.2.1 para 9	When a door that is automatically or remotely closed, is about to operate, an audible alarm shall be given to persons inside and outside the train. The alarm shall sound for a minimum of 2 seconds before the door starts to close and shall be different in tone to that used when the door is released. The alarm shall continue to sound while the door is closing.	Y	N	Huile alarm fitted, (but does not continue to sound while doors close).				Compliance achieved	Yes	Yes	Yes	EAO sounder to provide a compliant tone for a minimum period of 3 seconds (see ESG-R-063(01)). Door close tone ceases once door starts to move. The installation of a timer relay at each door would be required to enable the signal to continue whilst the doors close.	No				
22	4(4)	In this regulation "sound" includes the spoken word.	4.2.2.4.2.1	Passenger door audible warnings - Door enabled for opening - Characteristic - A slow pulse multi tone (0-2 pulses per second) of 2 combined tones - Frequencies	Noted	N					Non-compliance accepted	Yes	Yes	Yes	An EAO ambient sensing MTSM sounder compliant to the PRM 2015 to be fitted.	No				
23	N/A	No equivalent requirement	4.2.2.4.2.1 para 1	External passenger access, automatic and semi-automatic, doors shall incorporate devices that detect if they close on a passenger where a passenger is detected the doors shall automatically stop and remain free for a limited period of time.	N/A	N					Non-compliance accepted	Yes	Yes	Yes	An EAO ambient sensing MTSM sounder compliant to the PRM 2015 to be fitted.	No				
24	N/A	No equivalent requirement	4.2.2.4.2.1 para 2	All exterior passenger doorways shall have a minimum clear useable width of 800mm when open.	N/A	Y	Double leaf doors - minimum width of 1500mm. (Single leaf door non-compliance accepted)				Compliance achieved	Yes	Yes	Yes		No				
25	<b>Door Controls</b>																			
26	5(1)	No control device to enable a passenger to open or close a power-operated door other than a device to which paragraph (2) below applies, shall be fitted to a regulated rail vehicle unless:-																		
27	5(1)(a)	(a) the centre of the control device is not less than 700mm and not more than 1200mm vertically above an imaginary horizontal line extended from the door sill of the relevant doorway;	4.2.2.4.2.1 last para	The centre of exterior door controls, operable from the platform, shall be not less than 800 mm and not more than 1200 mm measured vertically above platforms, for all platforms at which the train will stop. The centre of external door controls for the exterior door shall be not less than 800mm and not more than 1200mm measured vertically above the vehicle floor level.	N	N	Internal Close 1370mm Internal Open 1250mm External Open 975mm				Non-compliance accepted	No	No	No	Dispensation to be sought due to the excessive costs associated with achieving compliance.	Yes	Dispensation sought for non-compliance of internal controls.			
28	5(1)(b)	(b) the control device is operable by the palm of the hand exerting a force not exceeding 15 Newtons;	4.2.2.4.2.2 1st para	If pushbuttons are provided for operation of doors then each pushbutton shall have visual indication, on or around the push button, when enabled and shall be operable by a force not greater than 15 Newtons.	Y	Y	EAO Series 56				Compliance already achieved	Yes	Yes	Yes		No				
29	5(1)(c)	(c) the control device or its immediate surround is illuminated continuously whenever it is operable;	4.2.2.4.2.2 1st para	If pushbuttons are provided for operation of doors then each pushbutton shall have visual indication, on or around the push button, when enabled and shall be operable by a force not greater than 15 Newtons.	Y	Y	Illuminated while operable				Compliance already achieved	Yes	Yes	Yes		No				
30	5(1)(d)	(d) the control device contrasts with the surface on which it is mounted; and	4.2.2.4.1 2nd para	Door controls, whether manual or pushbuttons, shall contrast with the surface on which they are mounted.	Y	Y	Yellow bezels				Compliance already achieved	Yes	Yes	Yes		No				
31	5(1)(e)	(e) the control device is identifiable by touch.	4.2.2.4.2.2 2nd para	Such pushbuttons shall be identifiable by touch (for example: tactile markings) and shall indicate the functionality.	Y	Y					Compliance already achieved	Yes	Yes	Yes		No				
32	5(2)	When power-operated doors are closed by a member of the operator's staff, the illumination of each such control device shall cease not less than 3 seconds before the doors start to close.	4.2.2.4.2.2 1st para	If the door closure is remotely activated by traincrew, the visual indication shall cease not less than 2 seconds before the door starts to close.	N	N	Illumination ceases at start of door closure				Non-compliance accepted	No	No	No	An additional timer relay would be necessary to enable the illumination to cease 2 seconds before the doors start to close.	Yes	Dispensation sought for non-compliance.			
33	5(3)	Subject to paragraph (4) below, no control device which opens a door automatically as a passenger approaches that door shall be fitted to a regulated rail vehicle unless:-																		
34	5(3)(a)	(a) the door starts to open before any part of a passenger reaches a distance of less than 300 mm, measured horizontally, from the door;	N/A	No equivalent requirement	N/A	N/A					N/A									
35	5(3)(b)	(b) the door, once opened, remains open for a period of not less than 5 seconds before it closes; and	N/A	No equivalent requirement	N/A	N/A					N/A									
36	5(3)(c)	(c) if, after the door starts to close, the edge of the door comes in to contact with any part of a passenger or the door opens again.	N/A	No equivalent requirement	N/A	N/A					N/A									
37	5(4)	If a control device, to which paragraph (3) above applies, incorporates a photo-cell device positioned above the door, the equipment imposed by paragraph (3)(a) above will be complied with if the distance from the vertical centre line of the door is not less than 1000mm.	N/A	No equivalent requirement	N/A	N/A					N/A									
38	N/A	No equivalent requirement	4.2.2.4.1 1st para	To latch or unlatch a manually operated door, for use by the public, the control device shall be operable by the palm of the hand exerting a force not exceeding 20 Newtons.	N/A	?	End vehicle door latch - not tested. Lever handles to be fitted where necessary in order to aid operation and provide leverage				Compliance expected	Yes	Yes	Yes	New compliant handle to be fitted which is the same as that fitted to Class 455 & 456 vehicles during PRM modifications.	No				
39	N/A	No equivalent requirement	4.2.2.4.1 4th para	If both open and closed pushbuttons are fitted one above the other, the top button shall always be the open control.	N/A	N	Open is lower				Non-compliance accepted	No	No	No	Compliance with this clause would raise the 'open' button further from a compliant height.	Yes	Dispensation sought for non-compliance.			
40	<b>Steps</b>																			
41	6(1)	Steps for use by passengers at any external doorway of a regulated rail vehicle shall comply with the following requirements:-																		
42	6(1)(a)	(a) the surface of each tread shall be covered in slip-resistant material;	4.2.2.12.2 1st para	All steps for access and egress shall be slip resistant...	Y	Y	Treadplate design				Compliance achieved	Yes	Yes	Yes	No modification required.	No				
43	6(1)(b)	(b) across the front edge of each tread there shall be a band of colour which shall be not less than 45mm and not more than 50mm deep and shall contrast with the remainder of the tread;	4.2.2.12.2 2nd para	The first and last step shall be indicated by a contrasting band with a depth of 45mm to 50mm extending the full width of the steps on both the front and the top surfaces of the step nosing.	N	N	Colour band required across doorway.				Compliance expected	Yes	Yes	Yes	The inner and outer treadplates are finished to provide a contrast strip with a	No				
44	6(1)(c)	(c) the rear of each step shall be closed by a vertical riser fixed to the rear of the tread and the front edge of the tread above or of the floor of the vehicle;	N/A	No equivalent requirement	N/A	N/A					N/A									
45	6(1)(d)	(d) each step shall be illuminated by a light placed within or immediately adjacent to the step;	4.2.2.5	Vehicle access steps shall be illuminated to a minimum of 75 Lux, measured across 80% of the width of the step by a light placed within or immediately adjacent to it.	N	N	No internal steps Light required next to door, to illuminate threshold				Non-compliance accepted	No	No	No	Non-compliance accepted (since August 2010)	Yes	Dispensation sought for non-compliance.			
46	6(1)(e)	(e) each step shall be not more than 200mm high measured vertically from the surface of the tread to an imaginary line extended horizontally from the surface of the rear tread or floor of the vehicle and not less than 300mm deep measured from the front of the tread to its rear; and	4.2.2.12.2 paras 2 - 4	Internal steps for external access shall have a maximum height of 200mm and a minimum depth of 240mm (going) between the vertical edges of the step. The rising height of each step shall be equal. The first and last step shall be indicated by a contrasting band with a depth of 45mm to 50mm extending the full width of the steps on both the front and the top surfaces of the step nosing. The height of each step may be increased to a maximum of 200mm if it can be demonstrated that this achieves a reduction of one in the total number of steps required. (For example, if a vertical distance of 400mm is to be traversed, it can be demonstrated that using steps of up to 250mm reduces the number of steps required from 3 to 2.)	N/A	N/A					N/A									
47	6(1)(f)	(f) the surface of each tread shall be not less than 455mm wide.	4.2.2.12.2 para 1	All steps for access and egress shall ... have an effective clear width as large as the doorway width.	N/A	N/A					N/A									
48	6(2)	Paragraph (1)(e) and (f) do not apply if there is not more than one step outside an external doorway.	4.2.2.12.2 para 4	If a step board is fitted and it is an extension of a door sill outside the vehicle, and there is no change in level between the step board and the floor of the vehicle, this shall not be considered to be a step for the purposes of this specification. A minimal drop in level, with a maximum of 10 mm, between the floor surface of the vehicle and that of the exterior of the vehicle, used to guide and seal the door is also permissible and shall not be considered to be a step.	N/A	Noted					N/A									
49	6(3)	Subject to paragraph (4), inside a regulated rail vehicle there shall be no step between an external passenger doorway and that part of the passenger saloon to one side of that doorway for as far as and	N/A	No equivalent requirement	Y	N/A	No internal steps				Compliance already achieved	Yes	Yes	Yes	No modification required.	No				
50	6(4)	Paragraph (3) shall not apply to stairs leading to any upper passenger saloon of a regulated rail vehicle.	N/A	No equivalent requirement	N/A	N/A	No upper saloon				N/A									
51	N/A	No equivalent requirement	4.2.2.9 para 1	Internal steps (other than those for external access) shall have a maximum height of 200mm and a minimum depth of 280 mm, measured at the central axis of the stairs. The first and last step shall be indicated by a contrasting band with a depth of 45mm to 50mm extending the full width of the steps on both the front and the top surfaces of the step nosing. For double deck trains it is permitted to reduce this value to 270mm for the stairs accessing the upper deck.	N/A	N/A	No internal steps				N/A									
52	N/A	No equivalent requirement	4.2.2.12.1 (as amended)	7A.1.3.2 Specific case for Rolling Stock operating in Great Britain "P" As need to be removed when operating on GB lines. Under these circumstances the first usable step on GB lines shall comply with the	N/A	?	Stepping distances dependent upon platform positions				Non-compliance accepted	No	No	No	Stepping distance is dependent on the infrastructure.	Yes	Dispensation sought for non-compliance.			
53	N/A	No equivalent requirement	4.2.2.12.2 para 5	Access to the vestibule of the vehicle shall be achieved with a maximum of 4 steps of which one may be external.	N/A	Y	No steps therefore less than 4				Compliance already achieved	Yes	Yes	Yes	No modification required.	No				
54	<b>Floors</b>																			
55	7	The floors of areas used by passengers in a regulated rail vehicle shall comply with the following requirements:-																		
56	7(a)	(a) all floors shall be slip-resistant;	N/A	No equivalent requirement	Y	N/A	Lino is slip resistant				Compliance already achieved	Yes	Yes	Yes	No modification required.	No				
57	7(b)	(b) the floor of a vestibule adjoining a doorway in the side of a vehicle shall contrast with the adjacent floor in the passenger saloon of that vehicle;	4.2.4.2.2.1 para 6	From the inside of the vehicle the position of external doorways shall clearly be marked by use of contrast on the flooring adjacent to the doorway, as compared with the rest of the flooring of the vehicle.	Y	Y	Refreshed floor is compliant				Compliance already achieved	Yes	Yes	Yes	No modification required.	No				
58	7(c)	(c) the floor across the width of the doorway between the jambs	N/A	No equivalent requirement	N/A	N/A					N/A									
59	<b>Seats</b>																			
60	8(1)	Not less than 10% of the seats in a regulated rail vehicle or 8 seats whichever is the lesser number shall be designated by signs complying with paragraph (8) as priority seats for the use of disabled persons.	4.2.2.2.1 para 2.1	Not less than 10 percent of the seats by fixed trainset or individual vehicle, and by class shall be designated as priority seats for the use of PRM.	N	N	None labelled, 6 needed per vehicle Two centre seats of 2 bays nearest cab and 2 facing side mounted tip-up beside vestibule acceptable in DMSL Centre seats of bay at bolt end 594mm apart - acceptable in DMSL. Possible to move 2 fixed seats closer to header tank and improve on 500mm clearance between them and deployed tip-ups. Still two more needed in current configuration of DMSL.				Compliance expected	Yes	Yes	Yes	Seating arrangement revised to provide in excess of 10% of seating designated for priority use.	No				





	A	B	C	D	E	F	G	H	I	J	K	L	M	AB	AC	AD	AE	AF	AG	
	RVAR					PRM TSI	Operator : Arriva Trains Wales			DfT expectations of compliance by 1 Jan 2020		Angel Trains Fleets Compliance will be achieved?			Dispensation Requirements					
	Regulation	Requirement(s)	Clause No.	Requirement(s)	Compliant	Compliant	Comments			Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
183	N/A	No equivalent requirement	4.2.2.6.3.1 para 4	Visual and tactile (or audible) indication shall be given to indicate when a door has been locked.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
184	20(1)(b)	(b) the width of the doorway shall be not less than 850mm;	4.2.2.6.3.1 para 1	The toilet access door shall provide a minimum clear useable width of 800mm.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
185	20(1)(c)	(c) the surface of the toilet seat when lowered shall be not less than 450mm and not more than 480mm vertically above the floor of the toilet cubicle;	4.2.2.6.3.1 para 9	The surface of the toilet seat, when lowered shall be at a height of 450mm to 500mm above the floor level.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
186	20(1)(d)	(d) the toilet shall be equipped with facilities to enable a disabled person in a wheelchair to wash and dry his hands without moving from the seat of the toilet;	4.2.2.6.3.1 para 10	All amenities (wash basin, soap dispenser, mirror, water dispenser and hand dryer) shall be readily accessible to a person in a wheelchair.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
187	20(1)(e)	(e) there shall be sufficient space inside the toilet cubicle for a reference wheelchair to be positioned in front of the toilet and to be positioned at one side of the toilet so that it is possible for a disabled person to move from a reference wheelchair on to the toilet seat from the front or the side of the toilet;	4.2.2.6.3.1 paras 6 & 7	There shall be sufficient space inside the toilet compartment to enable a wheelchair as defined in Annex M to be manoeuvred to a position adjacent to the toilet seat and to the front of the toilet seat, see figure 8a. In front of the toilet seat there shall be a minimum clear space of 700 mm as shown in figure 8b.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
188	20(1)(f)	(f) there shall be hinged handrail beside the toilet which shall:	4.2.2.6.3.1 para 8	A horizontal handrail that complies with the dimensional requirements in the clause above shall be provided at each side of the toilet seat. The handrail on the wheelchair accessible side shall be hinged in such a way so as to enable an unobstructed transfer for the wheelchair user to and from the toilet seat, see figures 9 and 10.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
189	(i) be on the same side of the toilet as the space for the reference wheelchair;	N			N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
190	(g) comply with the requirements in paragraph (2) (a), (c), (d) and (n) of Regulation 11; and (ii) comply with the specifications in diagrams D1 and D2 in the Schedule.	N			N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
191	20(1)(g)	(g) beside the toilet and on the opposite side to the space for the reference wheelchair there shall be a horizontal handrail which shall comply with the requirements in paragraph (2) of regulation 11.			N	N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No	
192	20(1)(h)	(h) the toilet cubicle shall be fitted with not less than two devices to enable a disabled person to communicate in an emergency with a person who is in a position to take appropriate action, one to be placed not more than 450mm above the floor measured vertically from the surface of the floor to the top of the control device and the other to be not less than 800 millimetres and not more than 1200 millimetres above the floor measured vertically to the top of the control.	4.2.2.6.3.1 paras 11 - 15	The toilet cubicle shall be fitted with not less than two alarm devices that shall, in the event of danger enable, a PRM to inform a person who can take appropriate action. One shall be placed not more than 450mm above the floor, measured vertically from the surface of the floor to the top of the control. The other shall be not less than 800mm and not more than 1200mm above the floor measured vertically to the top of the control. The lower alarm device shall be positioned so that the control can be reached by a person lying on the floor. These two devices shall be located on different vertical surfaces of the cubicle so that they can be reached from a range of positions. The alarm control shall be distinct from any other control within the toilet and be coloured differently from other control devices. A sign in accordance with Annex N Clauses N.3 and N.7 shall be placed immediately next to each alarm device. The sign shall describe the function and required actions and shall contrast with the background and give clear visual and tactile information. A visual and audible indication that the alarm system has been operated shall be provided within the toilet.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
193					N	N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No	
194					N	N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No	
195					N	N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No	
196					N	N					Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No	
197	20(1)(i)	(i) each such control shall be operable by the palm of a person's hand exerting a force not greater than 30 Newtons.	5.4.2	The alarm devices shall be operable by the palm of a person's hand and shall not require a force exceeding 30N to operate.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
198	20(2)	The passageway between the wheelchair space or wheelchair-compatible sleeping compartment and the toilet cubicle shall be not less than 850mm wide at any point and provide a space adjacent to that toilet cubicle for the disabled person in the reference wheelchair to turn the wheelchair around through one hundred and eighty degrees.	4.2.2.7 para 3	Access to and from wheelchair spaces, wheelchair accessible areas and wheelchair accessible doors shall have a minimum clearway width of 800mm wide up to a minimum height of 1450mm at any point. The clearway shall be arranged to permit unobstructed movement of the reference wheelchair as detailed in Annex M.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
199	N/A	No equivalent requirement	4.2.2.6.3.2 para 1	If separate nursery facilities are not provided a facility to enable the changing of babies nappies shall be incorporated within the universal toilet. In the lowered position, the changing facility shall be between 850mm and 1000mm above floor level. It shall be a minimum of 800mm wide and 700mm long.	N/A	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
200	N/A	No equivalent requirement	4.2.2.6.3.2 para 2	It shall be designed to prevent a baby from inadvertently sliding off, shall have no sharp edges and shall be able to take a minimum weight of 80 Kg	N/A	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
201	N/A	No equivalent requirement	4.2.2.6.3.2 para 3	If the baby-change table protrudes into the accessible toilet space, it shall be possible to put it into the stowed position using a force not exceeding 25 Newtons.	N/A	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The toilet module is the 'Comfort Zone' manufactured by PCC.eu and has an ISV demonstrating compliance.	No		
202	Telephones - Reg 21 - N/A																			
203	Internal Doorways																			
204	22(1)	A doorway (other than an external doorway in the side of the end of a regulated rail vehicle) through which a wheelchair user shall have a minimum clear useable width of 800mm.	4.2.2.4.3.1 para 3	Door openings that are made available for wheelchair users shall have a minimum clear useable width of 800mm.	N/A	N/A	No internal doorways for wheelchair users			N/A										
205	22(2)	A doorway in the end of a vehicle through which a wheelchair user in a wheelchair must pass to reach a wheelchair space, a wheelchair-compatible sleeping compartment, or the nearest toilet or telephone to that compartment or space shall be not less than 850 millimetres wide.	4.2.2.4.3.1 para 3	Door openings that are made available for wheelchair users shall have a minimum clear useable width of 800mm.	N/A	N/A				N/A										
206	N/A	No equivalent requirement	4.2.2.4.3.1 para 7	Automatic inter-vehicle and consecutive connecting doors shall operate either synchronously as a pair, or the second door shall automatically detect the person moving towards it and open.	N/A	N/A	Manual doors			N/A										
207	Boarding Devices																			
208	23(1)	When a wheelchair-compatible doorway in a regulated rail vehicle is open at a platform or a train stop a boarding device must be fitted between that doorway and the platform or stop if a disabled person in a wheelchair wishes to use that doorway, unless the gap between the edge of the floor of that doorway and the edge of the platform or stop is not more than 75 millimetres measured horizontally and not more than 50 millimetres measured vertically.	4.2.2.12.3.2 para 1	When a wheelchair-compatible doorway in a train is intended to be open in normal operation, at a platform at a station that has obstacle free access routes in accordance with 4.2.2.1, a boarding aid shall be provided to be used between that doorway and the platform to allow a passenger in a wheelchair to board or alight, unless it is demonstrated that the gap between the edge of the floor of that doorway and the edge of the platform is not more than 75mm measured horizontally and not more than 50mm measured vertically.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	No modification required.	No		
209	23(2)	The surface of a boarding device shall be slip-resistant.	4.2.2.12.3.3 para 4	The device surface shall be slip resistant and shall have an effective clear width as large as the doorway width.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	No modification required.	No		
210	23(3)	No boarding device other than a lift or a ramp shall be used.	4.2.2.12.3.1 para 1	Boarding aids shall comply with requirements as per the following table: Use of the: Not accessible Both wheelchair & Only accessible to wheelchair user Boarding aid category: Moveable step/other devices Ramp/bridging devices Lifter/other devices General requirements: Category A Category B Category B etc. to	N/A	N/A				N/A										
211	23(4)	If a regulated rail vehicle is fitted with a lift it shall comply with the following requirements.																		
212	23(5)	If the regulated rail vehicle is fitted with a power-operated ramp:																		
213	23(6)	If the regulated rail vehicle is not fitted with a lift or a power-operated ramp, the operator of the vehicle shall provide assistance in deploying and using a separate ramp.	4.2.2.12.3.6 para 3	An access ramp shall be either positioned manually by staff whether stored on the station platform or on board, or deployed semi-automatically by mechanical means, operated by staff or by the passenger.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	No modification required.	No		
214	23(7)(a)	(a) be fixed securely to the regulated rail vehicle;	4.2.2.12.3.6 para 7	When in use for boarding or alighting, the ramp shall be secured in use so that it is not subject to displacement when loading or unloading.	N	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR will incorporate two location lugs that will interface with two holes in the vehicle footstep.	No		
215	23(7)(b)	(b) be not less than 800mm wide and not wider than the opening of the wheelchair-compatible doorway;	4.2.2.12.3.6 para 4	The ramp surface shall be slip resistant and shall have an effective clear width of a minimum of 700mm.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR has a slip resistant surface.	No		
216	23(7)(c)	(c) have along each side which is not to be crossed by the wheelchair a protective rim standing at least 20mm higher than the surface of the ramp;	4.2.2.12.3.6 para 5	Ramps shall have raised edges on both sides to prevent mobility aid wheels from slipping off.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR has a raised sides and has an IC confirming compliance.	No		
217	23(7)(d)	(d) be capable of supporting a weight of not less than 300kg (excluding its own weight);	4.2.2.12.3.3 para 1 & 2	The device shall be capable of withstanding a concentrated downward vertical load of 2 kN this shall be applied on an surface area of 100 mm x 200 mm at any position on the exposed step surface without causing	?	?				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR has a safe working load of 300 kg.	No		
218	23(7)(e)	(e) rest its outer edge securely on the surface of the platform of the station or train stop; and	4.2.2.12.3.6 para 7	When in use for boarding or alighting, the ramp shall be secured in use so that it is not subject to displacement when loading or unloading.	Y	N				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR will incorporate two location lugs that will interface with two holes in the vehicle footstep.	No		
219	23(7)(f)	(f) be marked on its upper surface by a strip of colour, which shall extend the edge of that surface shall be not less than 20mm wide and shall contrast with the remainder of that surface, and be coloured on	4.2.2.12.3.6 para 6	The upstands at both ends of the ramp shall be bevelled and shall not be higher than 20mm. They shall have contrasting hazard warning bands.	?	?				Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	The Portaramp 60 PRR has an IC confirming compliance.	No		
220	23(8)	A boarding device which is power-operated shall also be operable manually, and the operator shall provide assistance for such manual operation if the power-operation fails.	4.2.2.12.3.3 para 9		N/A	N/A				N/A										
221	23(9)	A boarding device which is power-operated shall not be capable of being deployed unless the vehicle to which it is fitted is stationary.	4.2.2.12.3.5 para 3	In the case of the moving step extending beyond that permitted by the gunging rules, the train shall be immobilised whilst the step is extended.	N/A	N/A				N/A										
222	23(10)	A boarding device which is carried by a rail vehicle and which is not in use shall be fixed securely to that vehicle so that it does not endanger the safety of persons in that vehicle.	4.2.2.12.3.6 para 10	A secure compartment shall be provided to ensure that stowed ramps, including portable ramps, do not impinge on a passenger's wheelchair or mobility aid or pose any hazard to passengers in the event of a sudden stop.	Y	Y				Compliance already achieved	Yes	Yes	Yes	Yes	Yes	Yes	No modification required.	No		
223	Catering																			
224	24	If catering facilities are provided in a regulated rail vehicle or on a train but there is no passageway for a reference wheelchair from a wheelchair space or wheelchair-compatible sleeping compartment to those facilities the operator of that vehicle or train shall assist a disabled person in a wheelchair by providing a reasonably equivalent catering service to that person in that space or	N/A		?	?	Compliance expected if catering provided			Compliance expected	Yes	Yes	Yes	Yes	Yes	Yes	No fixed catering facilities provided. Some services may have a trolley service, which would comply with this regulation.	No		