PRM NTSN 2021 Compliance

Formation		7	
Formation Operator	Class 153 Lite TfW	-	
Issue	Issue 4]	
	Accessibility Standard	Ve	ehicle Designation
	PRM NTSN 2021	Opera	tor: Transport for Wales
Clause No.	Requirement(s)	Commentary	Compliance Status
	4.2.2.1 Seats		
4.2.2.1.1	General		
4.2.2.1.1 Para (1)	Handholds or vertical handrails or other items that can be used for personal stability, whilst using the aisle, shall be provided on all aisle-side seats unless the seat, when in the upright position, is within 200 mm of: — the back of another seat facing in the opposite direction which is fitted with a handhold or a vertical handrail or other items that can be used for personal stability.	All applicable seats have a handhold, extra handholds have been added to back to back seating bays that are without a handhold, see sketch DG8- SK-93111 and drawing TFW-C0- 2508588.	Compliance Achieved
4.2.2.1.1 Para (2)	Handholds or other items that can be used for personal stability shall be positioned at a height of between 800 mm and 1200 mm above the floor, measured from the centre of the usable part of the handhold, shall not protrude into the clearway and shall contrast with the seat.	The current grab measures 1200mm at the base and 1250mm at the top Dispensation consistent with Porterbrook Units	Dispensation Required
4.2.2.1.1 Para (3)	In seating areas with fixed longitudinal seats, handrails shall be used for personal stability. These handrails shall be at a maximum distance of 2000 mm apart, shall be positioned at a height of between 800 mm and 1200 mm above the floor and shall contrast with the vehicle interior surroundings.	No fixed longitudinal seating	
4.2.2.1.1 Para (4)	The handholds or other items shall not have sharp edges.	Handholds have no sharp edges	Not applicable Compliance Achieved
4.2.2.1.2	Priority Seats		·
4.2.2.1.2.1	General		
4.2.2.1.2.1 Para (1)	Not less than 10 per cent of the seats by fixed trainset or individual vehicle, and by class shall be designated as priority seats for the use of persons with disabilities and persons with reduced mobility.	Number of seats: 68 Number of Priority Seats: 8 See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.1 Para (2)	The priority seats and vehicles containing them shall be identified by signs complying with appendix N. It shall be stated that other passengers shall make such seats available to those who are eligible to use them when required.	See drawing TFW-C0-2508633.	Compliance Achieved
4.2.2.1.2.1 Para (3)	The priority seats shall be located within the passenger saloon and in close proximity to external doors. In double deck vehicles or trainsets, priority seats can be present on both decks.	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.1 Para (4)	The level of equipment fitted to the priority seats shall, as a minimum, be the same as that fitted to general seats of the same type.	All seats have the same level of equipment fitted, these include armrests and seat back tables.	Compliance Achieved
4.2.2.1.2.1 Para (5)	When seats of a certain type are fitted with armrests, priority seats of the same type shall be fitted with movable armrests. This excludes armrests placed along the vehicle body side or along a partition wall in case of compartments. The movable armrest shall move into a position in line with the seat back cushion to enable unrestricted access to the seat or to any adjacent priority seats.	Priority seats are fitted with moveable armrests, See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.1 Para (6)	Priority seats shall not be tip-up seats.	Priority seats are not tip-up seats, See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.1 Para (7)	Each priority seat and the space available to its user shall comply with the figures H1 to H4 from Appendix H.	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.1 Para (8)	The whole useful sitting surface of the priority seat shall be a minimum of 450 mm wide (see figure H1).	The whole useful sitting surface	
	The top of each priority seat cushion shall be between 430 and 500 mm above floor level at the front edge of the	measures 470mm The top of each seat cushion	Compliance Achieved
4.2.2.1.2.1 Para (9) 4.2.2.1.2.1 Para (10)	seat. The clear headroom above each seat shall be at least 1 680 mm from floor level, except on double-decker trains on which luggage racks are provided above the seats. In such case reduced headroom of 1 520 mm is permitted for priority seats underneath the luggage racks, provided that at least 50 % of priority seats maintain headroom of		Compliance Achieved
4.2.2.1.2.1 Para (11)	1 680 mm. Where reclining seats are fitted, the dimensions shall be measured when the seats are in their fully upright	No reclining seats	Compliance Achieved
4.2.2.1.2.1 Faia (11)	position. Unit-directional Seats		Not applicable
4.2.2.1.2.2 Para (1)	Where unit-directional priority seats are provided, the clearance in front of each seat shall comply with figure H2.	See sketch DG8-SK-93111 and	
4.2.2.1.2.2 Para (2)	The distance between the front surface of the seat back and the vertical plane through the rearmost part of the seat in front shall be a minimum of 680 mm, noting that the required seat pitch shall be measured from the centre of the seat 70 mm above where the cushion meets the back support.	drawing TFW-C0-2508588. See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.2 Para (3)	There shall also be a clear space between the front edge of the seat cushion and the same vertical plane for the	See sketch DG8-SK-93111 and	·
4.2.2.1.2.3	seat in front of a minimum of 230 mm. Facing Seat Arrangement	drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.1.2.3 Para (1)	Where facing priority seats are provided, the distance between the front edges of the seat cushions shall be a minimum of 600 mm (See figure H3). Such distance shall be maintained even if one of the facing seats is not a priority seat.	No facing priority seats	Not applicable
4.2.2.1.2.3 Para (2)	Where facing priority seats are equipped with a table, there shall be a minimum clear horizontal distance between the front edge of the seat cushion and the leading edge of the table of at least 230 mm (See figure H4). When one of the facing seats is not a priority seat, its distance to the table can be reduced provided that the distance between the front edges of the seat cushions remains 600 mm. Sidewall mounted tables which length does not extend over the centre line of the window seat do not need to be considered for conformity with this paragraph.	No facing priority seats	Not applicable
	4.2.2.2 Wheelchair Spaces		
4.2.2.2 Para (1)	According to the length of the unit, excluding the locomotive or power head, there shall be in the unit not less than the number of accessible wheelchair spaces shown in the following table: Unit Length No of wheelchair spaces by unit Less than 30m 1 wheelchair space 30 to 205m 2 wheelchair spaces 205 to 300m 3 wheelchair spaces More than 300m 4 wheelchair spaces	See sketch DG8-SK-93111 and drawing TFW-C0-2508588. There is one wheelchair space. The vehicles can only be coupled to another vehicle with at least one wheelchair space.	Compliance Achieved
4 2 2 2 Para (2)	To ensure stability, the wheelchair space shall be designed for the wheelchair to be positioned either facing or	See drawing TEW_C0-2508586	Compliance Achieved

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4.2.2.2 Para (3)	Over the full length of the wheelchair space the width shall be 700 mm from floor level to a minimum height of 1 450 mm with an additional 50 mm width to give clearance for hands on each side that is adjacent to any obstacle that will inhibit clearance for the wheelchair users hands (e.g. wall or structure) from a height of 400 mm to 800 mm above floor level (if one side of the wheelchair is adjacent to the aisle there is no additional 50 mm requirement for that side of the wheelchair as it is already free space).	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.2 Para (4)	The minimum distance in the longitudinal plane between the back of the wheelchair space and the next surface shall be in accordance with Appendix I, figures I1 to I3.	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.2 Para (5)	There shall be no obstruction of the designated space between the floor and the ceiling of the vehicle other than an overhead luggage rack, a horizontal handrail in accordance with the requirements of point 4.2.2.9 attached to the wall or ceiling of the vehicle, or a table.	There are no obstructions in the designated space.	Compliance Achieved
4.2.2.2 Para (6)	The back of the wheelchair space shall be a structure or other acceptable fitting of at least 700 mm wide. The height of the structure, or fitting, shall be capable of preventing a wheelchair that has been positioned with its back against the structure or fitting, from tipping over backwards.	See drawing PB-C0-2121410	Compliance Achieved
4.2.2.2 Para (7)	Tip-up seats may be installed in the wheelchair space but, when in the stowed position, shall not encroach on the dimensional requirements of the wheelchair space.	There are no Tip-ups seats in the area.	Compliance Achieved
4.2.2.2 Para (8)	It is not allowed to install any permanent equipment such as bicycle hooks or ski racks into the wheelchair space or directly in front of it.	No permanent equipment is installed in the wheelchair area.	Compliance Achieved
4.2.2.2 Para (9)	At least one seat shall be available either adjacent to or facing to each of the wheelchair spaces for a companion to travel with the wheelchair user. This seat shall offer the same level of comfort as the other passenger seats, and may also be situated on the opposing side of the aisle.	Companion seats are available adjacent to the wheelchair space. See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.2 Para (10)	On trains with a design speed higher than 250 km/h excepting double deck trains, it shall be possible for a wheelchair user occupying a wheelchair space to transfer onto a passenger seat that shall be equipped with a movable armrest. Such transfer is made by the wheelchair user in autonomy. In that case, it is allowed that the companion seat is shifted to another row. This requirement is applicable up to the number of wheelchair spaces per unit specified in table 5.		Not applicable

See drawing TFW-C0-2508586.

To ensure stability, the wheelchair space shall be designed for the wheelchair to be positioned either facing or back to the direction of travel.

4.2.2.2 Para (2)

Compliance Achieved

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4.2.2.2 Para (11)	The wheelchair space shall be fitted with a call for aid device that shall, in the event of danger, provide to a wheelchair user the possibility to inform a person who can take appropriate action.	See drawing PB-C0-2121407	Compliance Achieved
4.2.2.2 Para (12)	The call for aid device shall be placed within the comfortable reach range of the person using the wheelchair as shown in Appendix L, figure L1.	See drawing PB-C0-2121407	Compliance Achieved
4.2.2.2 Para (13)	The call for aid device shall not be placed within a narrow recess which prevents immediate intentional palm operation but can be protected from unintentional use	See drawing PB-C0-2121407	Compliance Achieved
4.2.2.2 Para (14)	The interface of the call for aid device shall be as defined in point 5.3.2.6.	This is part of the CFA device itself.	Compliance Achieved
4.2.2.2 Para (15)	A sign conforming to appendix N shall be placed immediately next to, or in the wheelchair space so as to identify the space as the wheelchair space.	See drawing TFW-C0-2508633.	Compliance Achieved
	4.2.2.3 Doors		
4.2.2.3.1	General		
4.2.2.3.1 Para (1)	These requirements apply only to doors providing access to another public part of the train, with the exclusion of toilet doors.		Compliance Achieved
4.2.2.3.1 Para (2)	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 N.		Not applicable
4.2.2.3.1 Para (3)	Door controls, whether manual, pushbuttons or other devices, shall contrast with the surface on which they are mounted.	Internal pushbuttons are unchanged. External pushbuttons EAO part no. 72- 014082.1	
4.2.2.3.1 Para (4)	Their interface with passengers shall comply with the specifications of point 5.3.2.1.		Compliance Achieved Compliance Achieved
		Non compliance accepted in targeted compliance of 11/03/2010.	
4.2.2.3.1 Para (5)	If both open and closed door control devices are fitted one above the other, the top device shall always be the open control.	Closed button over open existing	
		buttons used. Consistent with Porterbrook units	Dispensation Required
4.2.2.3.2	Exterior Doors		Dispensation Required
		Non compliance accepted in targeted compliance of 11/03/2010.	
		Only 600mm useable width between	
4.2.2.3.2 Para (1)	All exterior passenger doorways shall have a minimum clear useable width of 800 mm when open.	handrails at No 2 end (where cab was inserted when single car units were created in 1991-92). 700mm useable	
		width without handrails. Modification of No1 end handrails to ensure minimum	
		800mm useable width, see drawing TFW-C0-2508603.	Dispensation Required
4.2.2.3.2 Para (2)	On trains with a design speed lower than 250 km/h, wheelchair access doors offering a level access as defined in point 2.3 shall have a minimum clear useable width of 1 000 mm when open.		Not applicable
4.2.2.3.2 Para (3)		Refer to TfW Livery drawing CR-C0- 2124684	Compliance Achieved
4.2.2.3.2 Para (4)	The designated wheelchair exterior accessible doorways shall be the closest doorways to the designated wheelchair spaces.	See drawing TFW-C0-2508633.	Compliance Achieved
4.2.2.3.2 Para (5)	The doors to be used for wheelchair access shall be clearly labelled with a sign in accordance with appendix N.	See drawing PB-C0-2124685	Compliance Achieved
4.2.2.3.2 Para (6)	From the inside of the vehicle the position of external doorways shall clearly be marked by use of contrasted adjacent flooring.	Refer to TfW schedule of finishes PB/18/001-073.	Compliance Achieved
	When a door is released for opening a signal shall be given that is clearly audible and visible to persons inside	Door sounders fitted: EAO part number - 56-0213.MA.2371 - as fitted on the	
4.2.2.3.2 Para (7)	and outside the train. This alert signal shall last for a minimum of five seconds unless the door is operated, in which case it may cease after 3 seconds.	angel/Porterbrook Class 156 units. See drawing No PB-C0-2121342 and	
		PB-C0-2121343	Compliance Achieved
4.2.2.3.2 Para (8)	When a door is automatically or remotely opened by the driver or other member of the train crew, the alert signal	Door sounders fitted: EAO part number - 56-0213.MA.2371 - as fitted on the angel/Porterbrook Class 156 units.	
4.2.2.3.2 Faia (0)	shall last for a minimum 3 seconds from the moment that the door starts to open.	See drawing No PB-C0-2121342 and PB-C0-2121343	Compliance Achieved
		Door sounders fitted: EAO part number	
4.2.2.3.2 Para (9)	When a door that is automatically or remotely closed, is about to operate, an audible and visible alert signal shall be given to persons inside and outside the train. The alert signal shall start a minimum of 2 seconds before the	- 56-0213.MA.2371 - as fitted on the angel/Porterbrook Class 156 units. See drawing No PB-C0-2121342 and	
	door starts to close and shall continue while the door is closing.	PB-C0-2121343. Visible alert given through push button illumination.	Compliance Achieved
		Door sounders fitted: EAO part number - 56-0213.MA.2371 - as fitted on the	
4.2.2.3.2 Para (10)	The sound source for door alert signals shall be located in the area local to the control device or, if there is no such control device, adjacent to the doorway.	angel/Porterbrook Class 156 units. See drawing No PB-C0-2121342 and	
		PB-C0-2121343 See drawing PB-C0-2121342 for	Compliance Achieved
4.2.2.3.2 Para (11)	The visible signal shall be visible from inside and outside the train and shall be located such that it minimises the opportunity for it to be obscured by passengers located in the vestibule.	exterior door pushbuttons, interior pushbuttons remain unchanged.	Compliance Achieved
4.2.2.3.2 Para (12)	Passenger doors audible alert signals shall be according to the specification in appendix G	Sounders comply with 2008 PRM TSI rather than 2021 PRM NTSN. Consistent with Porterbrook units and	
		operator preference.	Dispensation Required
4.2.2.3.2 Para (13)	The method of door activation shall be by train crew, semi-automatic (i.e. passenger pushbutton	Door sounders fitted: EAO part number - 56-0213.MA.2371 - as fitted on the angel/Porterbrook Class 156 units.	
4.2.2.0.2 1 414 (10)	operation) or automatic.	See drawing No PB-C0-2121342 and PB-C0-2121343	
4.2.2.3.2 Para (14)	The door control shall be located either next to or on the door leaf.		Compliance Achieved Compliance Achieved
4.2.2.3.2 Para (15)	The centre of exterior door opening control, operable from the platform, shall be not less than 800 mm and not more than 1 200 mm measured vertically above platforms, for all platforms for which the train is designed. If the	Internal Close 1195mm Internal Open 1080mm	
	train is designed for a single platform height, the centre of exterior door opening control shall be not less than 800 mm and not more than 1 100 mm measured vertically above that platform height.	External Open 880-935mm	Compliance Achieved
4.2.2.3.2 Para (16)	The centre of internal door opening control for the exterior door shall be not less than 800 mm and not more than 1 100 mm measured vertically above the vehicle floor level.		Not applicable
4.2.2.3.3 4.2.2.3.3 Para (1)	Internal automatic and semi-automatic doors shall incorporate devices that prevent passengers becoming trapped during operation of the doors		Not applicable
4.2.2.3.3 Para (2)	trapped during operation of the doors. Interior doors that are made available for wheelchair users shall have a minimum clear useable width of 800 mm.		Not applicable Not applicable
4.2.2.3.3 Para (3)	The force required to open or close a manual door shall not exceed 60 N. The centre of interior door controls shall be not less than 800 mm and not more than 1100 mm measured		Not applicable
4.2.2.3.3 Para (4) 4.2.2.3.3 Para (5)	vertically above the vehicle floor level. Automatic inter-vehicle connecting doors shall operate either synchronously as a pair, or the second door shall		Not applicable
4.2.2.3.3 Para (5) 4.2.2.3.3 Para (6)	automatically detect the person moving towards it and open. If more than 75 % of a door's surface is made of a transparent material, it shall be clearly marked with visual indicator		Not applicable Not applicable
	indicators. 4.2.2.4 Lighting		Not applicable
		Light Level Testing Report	
4.2.2.4 Para (1)	Minimum values of average illuminance in the passenger areas shall be according to point 4.1.2 of the specification referenced in Appendix A, index 6. Requirements relative to the uniformity of these values are not	TW/21/005(023) demonstrates the values of average illuminance are	
	applicable for conformity with this NTSN	above the limits set post LED installation and are improved from the previous fluorescent tubes.	
	4.2.2.5 Toilets		Compliance Achieved
4.2.2.5 Para (1)	When toilets are fitted in a train, a universal toilet shall be provided accessible from the wheelchair space.		
4.2.2.5 Para (1)	The standard toilet shall be compliant with the requirements of points 5.3.2.2 and 5.3.2.3.		Not applicable Not applicable
40055	The universal toilet shall be compliant with the requirements of points 5.3.2.2 and 5.3.2.4.		Not applicable
4.2.2.5 Para (3)	When toilets are fitted in a train a baby nappy changing facility shall be provided. If separate nursery facilities are		
4.2.2.5 Para (3) 4.2.2.5 Para (4)	When toilets are fitted in a train a baby nappy changing facility shall be provided. If separate nursery facilities are not provided or if separate nursery facilities are provided but are not accessible to a wheelchair user, a table shall be incorporated within the universal toilets. It shall be compliant with the requirements of point 5.3.2.5.		Not applicable

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4.2.2.6 Para (1)	From the vehicle entrance, the section of the clearway shall be as follows:— through the vehicles according to figure J1 of Appendix J,— between connecting vehicles of a single trainset, according to figure J2 of Appendix J,— to and from wheelchair accessible doors, wheelchair spaces and wheelchair accessible areas including sleeping accommodation and universal toilets if provided, according to figure J3 of Appendix J.	Modification of No1 end handrails to ensure minimum 800mm useable width, see drawing TFW-C0-2508603.	Compliance Achieved
4.2.2.6 Para (2)	The minimum height requirement does not need to be verified in:— all areas of double-deck vehicles,— gangways and door areas of single deck vehicles, In those areas, reduced headroom is accepted as a consequence of structural constraints (gauge, physical space).	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.6 Para (3)	A turning space, with a minimum diameter of 1 500 mm, shall be provided adjacent to the wheelchair space and in other locations where wheelchairs are supposed to turn 1800. The wheelchair space may be part of the turning circle.	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved
4.2.2.6 Para (4)	If a change in direction is required for a wheelchair user, the clearway width of both corridors shall be in accordance to table K1 of Appendix K.	Vestibule partition opening increased to 900mm to meet requirement for turning in from vestibule which is greater than 1000mm wide. See drawing PB-C0-2121412	Compliance Achieved
	4.2.2.7 Customer Information		
4.2.2.7.1	General		
4.2.2.7.1 Para (1)	The following information shall be provided: — Safety Information and safety instructions — Audible safety instructions coupled with visible signals in case of emergency — Warning, prohibition and mandatory actions signs — Information concerning the route of the train, including information about delays and unplanned stops, — Information concerning the location of on-board facilities.	Operational Responsibility	Compliance Achieved
4.2.2.7.1 Para (2)	Visual information shall contrast with its background.	See IC certification for the TrainFX PIS system.	Compliance Achieved
4.2.2.7.1 Para (3)	The typeface used for texts shall be easily readable.	See IC certification for the TrainFX PIS system. See IC certification for the TrainFX PIS	Compliance Achieved
4.2.2.7.1 Para (4) 4.2.2.7.2	Time information presented in digits shall be in the 24 h system Signage, Pictograms and Tactile Information	system.	Compliance Achieved
4.2.2.7.2 Para (1)	All safety, warning, mandatory action and prohibition signs shall include pictograms and shall be designed according to the specification referenced in Appendix A, index 7.	See drawing PB-C0-2124685, PB-C0- 2124686	Compliance Achieved
4.2.2.7.2 Para (2)	There shall be no more than five pictograms, together with a directional arrow, indicating a single direction placed adjacent to each other at a single location.	See drawing PB-C0-2124685, PB-C0- 2124686	Compliance Achieved
4.2.2.7.2 Para (3)	The following specific pictograms shall be fitted with the wheelchair symbol in accordance with appendix N: — Directional information for wheelchair accessible amenities — Indication of the wheelchair accessible door location outside the train — Indication of the wheelchair space inside the train — Indication of the universal toilets. The symbols can be combined with other symbols (for example: carriage number, toilet, etc.).	See drawing PB-C0-2124685, PB-C0- 2124686	Compliance Achieved
4.2.2.7.2 Para (4)	Where inductive loops are fitted these shall be indicated by a pictogram complying with appendix N.		Not applicable
4.2.2.7.2 Para (5)	In universal toilets, where hinged handrails are provided, a pictogram showing the rail in both the stowed and deployed positions shall be provided.		Not applicable
4.2.2.7.2 Para (6)	If a vehicle provides reserved seats then the number or letter of that vehicle (as used in the reservation system) shall be displayed externally on or adjacent to all its access doors. The number or letter shall be displayed in characters not less than 70 mm high and shall be visible when the door is open and closed.		Not applicable
4.2.2.7.2 Para (7)	If seats are identified by numbers or letters, the number or letter of the seat shall be displayed on or adjacent to every seat in characters not less than 12 mm high. Such numbers and letters shall contrast with their background. Tactile information signage shall be fitted in:— Toilets and wheelchair accessible sleeping accommodation,	See drawings PB-C0-2124685, PB-C0-2124686.	Not applicable
4.2.2.7.2 Para (8)	for functional information and call for aid device if appropriate — Rolling stock, for the open/close button of passenger accessible doors and call for aid devices	See drawings PB-C0-2124685 and TFW-C0-2508633.	Compliance Achieved
4.2.2.7.3 4.2.2.7.3 Para (1)	Dynamic Visual Information The final destination or route shall be displayed on the outside of the train on the platform side adjacent to at least one of the passenger access doors on a minimum of alternate vehicles of the train.	No bodyside displays fitted across the fleet due to substantial modification costs. Consistent with Porterbrook units	Dispensation Required
4.2.2.7.3 Para (2)	Where trains operate in a system, in which dynamic visual information is given on the station platform every 50 m or less, and destination or route information is also provided on the front of the train, it is not mandatory to provide	· · · · ·	Bioponoulion required
4.2.2.7.3 Para (3)	information on the sides of vehicles. The final destination or route of the train shall be displayed inside each vehicle.	Operational Responsibility	Compliance Achieved Compliance Achieved
4.2.2.7.3 Para (4)	The next stop of the train shall be displayed such that it can be read from a minimum of 51 % of passenger seats inside each vehicle including 51 % of the priority seats, and from all wheelchair spaces. This information shall be displayed at least two minutes before arrival at the station concerned. If the next station	Ref PIS arrangement drawing PB-C0- 2121402	Compliance Achieved
4.2.2.7.3 Para (5)	is less than two minutes planned journey time away, the next station shall be displayed immediately following departure from the previous station.		Compliance Achieved
4.2.2.7.3 Para (6)	The requirement to make the destination and 'next stop' information visible from 51 % of passenger seats does not apply to compartment carriages where the compartments have a maximum of 8 seats and are served by an adjacent corridor. However, this information shall be visible to a person standing in a corridor outside a compartment and to a passenger occupying a wheelchair space.		Not applicable
4.2.2.7.3 Para (7)	The information about the next stop may be displayed on the same support as the final destination. However, it shall revert to show the final destination as soon as the train has stopped.		Compliance Achieved
4.2.2.7.3 Para (8)	If the system is automated, it shall be possible to suppress or correct incorrect or misleading information.		Compliance Achieved
4.2.2.7.3 Para (9)	Internal and external displays shall comply with the requirements of point 5.3.2.7. In this point, the term 'display' shall be understood as any support of dynamic information.		Compliance Achieved
4.2.2.7.4	Dynamic Audible Information The train shall be fitted with a public address system which shall be used either for routine or emergency		
4.2.2.7.4 Para (1)	announcements by the driver or by another crew member who has specific responsibility for passengers. The public address system may operate on a manual, an automated or pre-programmed basis. If the	Fitted with TrainFX PIS	Compliance Achieved
4.2.2.7.4 Para (2)	public address system is automated, it shall be possible to suppress, or correct, incorrect or misleading information.		Compliance Achieved
4.2.2.7.4 Para (3)	The public address system shall be capable of announcing the destination and next stop of the train at each stop, or on departure from each stop.		Compliance Achieved
4.2.2.7.4 Para (4)	The public address system shall be capable of announcing the next stop of the train at least two minutes before the arrival of the train at that stop. If the next station is less than two minutes planned journey time away, the next station shall be announced immediately following departure from the previous station.		Compliance Achieved
4.2.2.7.4 Para (5)	The spoken information shall have a minimum STI-PA level of 0,45, in accordance with the specification referenced in Appendix A, index 5. The public address system shall meet the requirement at all seat locations and wheelchair spaces.	PRM TSI2008, 2014 and the PRM NTSN 2021 all reference EN 60268- 16:2011. This is withdrawn. The TrainFX PIS solution has been proven to be compliant with STI-PA on various fleets however saloon layout, seat type, Operator selected volume levels and the quality of the Operator audio recordings all affect the output levels so this can vary across fleets.	Dispensation Required
	4.2.2.8 Height Changes		
	Internal steps (other than those for external access) shall have a maximum height of 200 mm and a minimum		
4.2.2.8 Para (1) 4.2.2.8 Para (2)	depth of 280 mm, measured at the central axis of the stairs. For double deck trains it is permitted to reduce this value to 270 mm for the stairs accessing the upper deck and the lower deck. As a minimum the first and the last step shall be indicated by a contrasting band with a depth of 45 mm to 55 mm	See drawing PB-C0-2124684	Not applicable
4.2.2.8 Para (2)	extending the full width of the steps on both the front and the top surfaces of the step nosing. Stairs constituted of more than three steps shall be provided with handrails on both sides and at two levels. The higher handrail shall be positioned at a height of 850 mm to 1 000 mm above floor level. The lower handrail shall be positioned to height of 850 mm to 1 000 mm above floor level. The lower handrail shall be positioned to height of 850 mm to 1 000 mm above floor level.		Compliance Achieved
4.2.2.8 Para (4)	shall be positioned at a height of 500 mm to 750 mm above floor level. Stairs constituted of one, two or three steps shall be provided on both sides with a minimum of one handrail or other item that can be used for personal stability.		Not applicable
4.2.2.8 Para (5)	Handrails shall be compliant with point 4.2.2.9		Not applicable Compliance Achieved
4.2.2.8 Para (6)	No steps are allowed between the vestibule of a wheelchair accessible exterior door, the wheelchair space, a universal sleeping compartment and the universal toilet except for a door threshold strip that shall not exceed 15 mm in height or except in case that a lift is provided to overcome the step. The lift shall comply with the requirements of point 5.3.2.10.		Not applicable
L	· · · · · · · · · · · · · · · · · · ·	l	Not applicable

4.2.2.8 Para (7)	For ramps in rolling stock the maximum slope shall not exceed the following values in Table 6:		Compliance Achieved	
4.2.2.9 Handrails				
4.2.2.9 Para (1)	All handrails fitted to a vehicle shall be round in section with an outside diameter of 30 mm to 40 mm, and shall have a minimum clear distance of 45 mm to any adjacent surface other than its mountings.	No new handrails fitted	Not applicable	
4.2.2.9 Para (2)	If a handrail is curved, the radius to the inside face of the curve shall be a minimum of 50 mm.	No new handrails fitted	Not applicable	
4.2.2.9 Para (3)	All handrails shall contrast with their background.	Refer to TfW schedule of finishes PB/18/001-073.	Compliance Achieved	
4.2.2.9 Para (4)	External doorways shall be provided with handrails on both sides, fitted internally as close as practicable to the vehicle outer wall. Exception can be made for one side of the doorway if it is fitted with a device such as an on- board lift.	Existing handrails are fitted both sides of external door ways	Compliance Achieved	
4.2.2.9 Para (5)	Those handrails shall be:— vertical handrails that shall extend from 700 mm to 1200 mm above the threshold of the first step for all external doorways.— additional handrails at a height of between 800 mm and 900 mm above the first useable step and parallel with the line of the step nosing for doorways with more than two entrance steps.		Compliance Achieved	
4.2.2.9 Para (6)	Where the clearway of the gangway is narrower than 1000 mm and longer than 2000 mm there shall be handrails or handholds provided in, or adjacent to, inter- vehicle gangways that are provided for passenger use.		Not applicable	
4.2.2.9 Para (7)	Where the clearway of the gangway is wider than or equal to 1000 mm handrails or handholds shall be provided in the gangway.	See sketch DG8-SK-93111 and drawing TFW-C0-2508588.	Compliance Achieved	
	4.2.2.10 Wheelchair Accessible Sleeping Acco	ommodation		
4.2.2.10 Para (1)	When a train is equipped with sleeping accommodation for passengers, it shall provide a vehicle containing at least one wheelchair accessible sleeping accommodation.		Not applicable	
4.2.2.10 Para (2)	If there is more than one vehicle with sleeping accommodation for passengers in a train, there shall be not less than two wheelchair accessible sleeping accommodations in the train.		Not applicable	
4.2.2.10 Para (3)	If a rail vehicle provides wheelchair accessible sleeping accommodation, the exterior of the relevant vehicle door and the wheelchair accessible sleeping accommodation door shall be marked with a sign in accordance with appendix N.		Not applicable	
4.2.2.10 Para (4)	accordance with appendix N. The wheelchair accessible sleeping accommodation internal space shall take in consideration the requirements of point 4.2.2.6 for actions expected from the wheelchair user in the sleeping accommodation.			
4.2.2.10 Para (5)	The sleeping accommodation shall be fitted with not less than two call for aid devices that shall when operated, send a signal to a person who can take appropriate action; they need not initiate a communication.		Not applicable	
4.2.2.10 Para (6)	The interface of the call for aid devices shall be as defined in point 5.3.2.6. One call for aid device shall be placed not more than 450 mm above the floor, measured vertically from		Not applicable Not applicable	
4.2.2.10 Para (7)	the surface of the floor to the centre of the control. It shall be positioned so that the control can be reached by a person lying on the floor.		Not applicable	
4.2.2.10 Para (8) 4.2.2.10 Para (9)	The other call for aid device shall be not less than 600 mm and not more than 800 mm above the floor measured vertically to the centre of the control. These two call for aid devices shall be located on different vertical surfaces of the sleeping accommodation.		Not applicable	
4.2.2.10 Para (10)	The call for aid devices shall be distinct from any other control within the sleeping accommodation, be coloured differently from other control devices and contrast with their background.		Not applicable	
	4.2.2.11 Step position for Vehicle Access and	nd Egress	Not applicable	
4.2.2.11.1	General Requirements			
4.2.2.11.1 Para (1)	It shall be demonstrated that the point situated in the central position on the nose of the access step of each passenger access door on both sides of a vehicle in working order with new wheels standing centrally on the rails, shall be located inside the surface identified as 'step location' on figure 1.	Non Compliance accepted in targeted compliance of 11/03/2010. UK railway infrastructure is variable. Consistent with Porterbrook units.	Dispensation Required	
4.2.2.11.1 Para (2)	The values of bq0, δh, δv+ and δv– depend on the type of platform where the rolling stock is intended to stop. They shall be as follows:— bq0 shall be calculated based on the gauge of the track in which the train is intended to operate in accordance with the specification referenced in Appendix A, index 8. Gauges are defined in chapter 4.2.3.1 of INF NTSN.		Dispensation Required	
4.2.2.11.1 Para (3)	The technical documentation requested in point 4.2.12 of the LOC&PAS NTSN shall include information about the height and offset of the theoretical platform resulting in a vertical gap (δv +) of 230 mm and in a horizontal gap (δh) of 200 mm from the point situated in the central position of the nose of the rolling stock's lowest step on a straight level track.	Non Compliance accepted in targeted compliance of 11/03/2010. UK railway infrastructure is variable. Consistent with Porterbrook units.	Dispensation Required	
4.2.2.11.2	Access/Egress Steps		Dispensation Required	
4.2.2.11.2 Para (1)	All steps for access and egress shall be slip resistant and shall have an effective clear width as large as the doorway width.	Treadplate Design as per targeted compliance of 11/03/2010	Compliance Achieved	
4.2.2.11.2 Para (2)	Internal steps for external access shall have a minimum depth of 240 mm between the vertical edges of the step and a maximum height of 200 mm. The height of each step may be increased to a maximum of 230 mm if it can be demonstrated that this achieves a reduction of one in the total number of steps required.	Non compliance accepted in targeted compliance of 11/03/2010. Consistent with Porterbrook units	Dispensation Required	
4.2.2.11.2 Para (3)	The rising height of each step shall be equal.	Non compliance accepted in targeted compliance of 11/03/2010. Step-board is too narrow. Some 65mm below door sill, so considered a step under NTSN. Consistent with Porterbrook units	Dispensation required	
4.2.2.11.2 Para (4)	As a minimum the first and the last steps shall be indicated by a contrasting band with a depth of 45 mm to 55 mm extending a minimum of 80 % of the width of the steps on the top surface of the step nosing. A similar band	See drawing PB-C0-2124684	Dispensation Required	
4.2.2.11.2 Para (5)	An external access step, fixed or moveable, shall have a maximum height of 230 mm between steps and a minimum depth of 150 mm.	Non compliance accepted in targeted compliance of 11/03/2010. Step-board is too narrow. Some 65mm below door sill, so considered a step under NTSN. Consistent with Porterbrook units	Compliance Achieved	
			Dispensation Required	

hall be achieved with a maximum of 4 steps of which one may be external. al operation, at existing platforms below 380 mm height and having their es need not comply with points (2) and (5) above if it can be even distribution of the steps height. Steps for the vehicle to be designed to meet either the following values mominal 915 mm high platform: The values of δh , $\delta v+$ and $\delta v-$ according to 4.2.2.12 Boarding Aids ided to ensure that boarding aids, including portable ramps, do not r mobility aid or pose any hazard to passengers in the event of a sudden ay be present in the rolling stock according to the rules defined in point integrated into the vehicle lower than the door threshold level, fully n with the door opening/closing sequences. ince integrated into the vehicle ac lose a possible to the door vated in conjunction with the door opening/closing sequences. ing plate extending beyond that permitted by the gauging rules, the step or plate is extended. bridging plate shall be completed before the door opening no jers. inhall comply with the requirements of point 5.3.2.8. Initial comply with the requirements of point 5.3.2.8. Initial comply with the requirements of point 5.3.2.8. Into the doorway of a vehicle that shall be able to overcome the maximum our and the station platform where operated. The doorway shall have a minimum useable width according to point uirements of point 5.3.2.10. 5.3.2. Rolling stock indication, on or around it when enabled and shall be operable by the pairr it han 15 N. mple: tactile markings); this identification shall indicate the functionality. mon parameters door control device on the exterior or interior of the toilet compartment im and a maximum of 1100 mm above the toilet door threshold. on shall be given inside and outside the toilet to indicate when a door has prement inside the toilet compartment (except for baby nappy change ial be operable by exerting a force not exceeding 20 N. system, shall contrast with the background.	Non compliance accepted in targeted compliance of 11/03/2010. UK railway infrastructure is variable. Consistent with Porterbrook units Image: Consistent with Porterbrook units See drawing PB-C0-2121411 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units See drawing PB-C0-2121411 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units See drawing PB-C0-2121411 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units See drawing PB-C0-2121411 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units Internal pushbuttons are unchanged. EAO Series 56. External pushbuttons EAO part no. 72-014082.1. Image: Consistent with Porterbrook units Internal pushbuttons EAO part no. 72-014082.2 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units Internal pushbuttons EAO part no. 72-014082.2 Image: Consistent with Porterbrook units Image: Consistent with Porterbrook units	Compliance Achieved Not applicable Compliance Achieved Compliance Achieved Compliance Achieved Not applicable
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		Not applicable
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accessible to a wheelchair user. be 500 mm.		Not applicable
ndrail according to point 4.2.2.9 shall be provided adjacent to the toilet		Not applicable
o be used by all passengers including all persons with disabilities and		Not applicable
defined by the method used for its assessment (A or B according to point		Not applicable
le to open it partially in order to allow a wheelchair user's assistant to		Not applicable
· · · · · · · · · · · · · · · · · · ·		Not applicable
		Not applicable
of 700 mm in front of the toilet seat that shall follow the seat profile.		
the requirements of point 4.2.2.9 shall be provided at each side of the		Not applicable
		Not applicable
		Not applicable
lowered, shall be at a height of 450 mm to 500 mm above the floor		Not applicable
		Not applicable
		Not applicable
shall be as defined in point 5.3.2.6.		
		Not applicable
		Not constitute to
		Not applicable
		Not applicable
located on different vertical surfaces of the cubicle so that they can be		
		Not applicable
provided, in the lowered position its usable surface shall be between		Not applicable
91		Not applicable
changing table shall be a minimum of 500 mm wide and 700 mm long.		Not applicable
rom inadvertently sliding off, shall have no sharp edges and shall be able		Not applicable
wed position with only one hand, using a force not exceeding 25 N.		
- v		Not applicable
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een or yellow background (according to the specification referenced in		
een or yellow background (according to the specification referenced in bol, representing a bell or a telephone; the sign can be on the	See drawing TFW-C0-2508633.	
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		Compliance Achieved
	to be used by all passengers including all persons with disabilities and defined by the method used for its assessment (A or B according to point minimum clear useable width of 800 mm. Where the door is automatic ble to open it partially in order to allow a wheelchair user's assistant to diwith a sign in accordance with appendix N. The toilet compartment to enable a wheelchair as defined in appendix M to both a lateral and a diagonal transfer of the wheelchair occupant to the of 700 mm in front of the toilet seat that shall follow the seat profile. In the requirements of point 4.2.2.9 shall be provided at each side of the ding edge of the toilet seat. The toilet seat. The toilet seat is a height of 450 mm to 500 mm above the floor e to a wheelchair user. The value of a low requirement on the initiate a communication. They need not initiate a communication. They need not initiate a communication. They need not initiate a communication wheele by a control. It shall be positioned so that the control can be reached by a control. It shall be positioned so that the control can be reached by a executed on different vertical surfaces of the cubicle so that they can be esshall be distinct from any other control within the toilet, be coloured and contrast with their background. They may approve the floor method, in the lowered position its usable surface shall be between el.	defined by the method used for its assessment (A or B according to point minimum clear useable width of 800 mm. Where the door is automatic ple to open it partially in order to allow a wheelchair user's assistant to ad with a sign in accordance with appendix N. he toilet compartment to enable a wheelchair as defined in appendix M to of 700 mm in front of the toilet seat that shall follow the seat profile. of 700 mm in front of the toilet seat that shall follow the seat profile. nthe requirements of point 4.2.2.9 shall be provided at each side of the gle g of the toilet seat. ible side shall be hinged in such a way so as to enable an unobstructed from the toilet seat. ible side shall be a a height of 450 mm to 500 mm above the floor a to a wheelchair user. t less than two call for aid devices that shall, when operated, send a signal action; they need not initiate a communication. shall be as defined in point 5.3.2.6. not more than 450 mm above the floor, measured vertically from the control. control. that the control can be reached by a ot less than 800 mm and not more than 1 100 mm above the floor, control. control. is shall be distinct from any other control within the toilet, be coloured hid contrast with their background. provided, in the lowered position its usable surface shall be between el. <

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5.3.2.6 Para (4)	provide additional operating information if necessary;		Not applicable
5.3.2.6 Para (5)	be operable by the palm of a person's hand and not require a force exceeding 30 N to operate.	Compliant Call for Aid module installed	Compliance Achieved
5.3.2.7	Internal and External Displays		
5.3.2.7 Para (1)	Each station name (which may be abbreviated), or words of messages, shall be displayed for a minimum	Compliant PIS system installed	
	of 2 seconds. If a scrolling display is used (either horizontal or vertical), each complete word shall be displayed for a minimum of		Compliance Achieved
5.3.2.7 Para (2)	2 seconds and the horizontal scrolling speed shall not exceed an average of 6 characters per second.	Compliant PIS system installed	Compliance Achieved
5.3.2.7 Para (3)	The typeface used for texts shall be easily readable.	Compliant PIS system installed	Compliance Achieved
5.3.2.7 Para (4)	Upper Case Letters and numbers used in external displays shall have a minimum height of 70 mm on front displays and 35 mm on side displays. Internal displays shall be designed and assessed for an area of use defined by the maximum viewing distance	Compliant PIS system installed	Compliance Achieved
5.3.2.7 Para (5)	according to the following formula: Table 13	Compliant PIS system installed	Compliance Achieved
5.3.2.8	Boarding aids: movable steps and bridging plates		•
5.3.2.8 Para (1)	A movable step or bridging plate shall be designed and assessed for an area of use defined by the width of the doorway it can fit.		Not applicable
5.3.2.8 Para (2)	The mechanical strength of the device shall be according to the specification referenced in Appendix A, index 11.		Not applicable
5.3.2.8 Para (3)	A suitable mechanism shall be installed in order to ensure the stability of the device in the deployed and retracted position.		Not applicable
5.3.2.8 Para (4)	The device surface shall be slip resistant and shall have an effective clear width as large as the doorway width.		Not applicable
5.3.2.8 Para (5)	The device shall be equipped with obstacle detection according to the specification referenced in Appendix A, index 11.		Not applicable
5.3.2.8 Para (6)	The device shall incorporate a method of deploying and stowing if the power to the step fails.		Not applicable
5.3.2.9	Boarding aids: on-board ramps	Depending on platform height the	
5.3.2.9 Para (1)	Ramps shall be designed and assessed for an area of use defined by the maximum vertical gap they can overcome within a maximum slope of 18 $\%$	slope may be slightly above NTSN requirements. Consistent with Porterbrook units	Dispensation Required
5.3.2.9 Para (2)	Ramps shall withstand a weight of at least 300 kg, placed at the centre of the ramp distributed over an area of 660 mm by 660 mm.	Portaramp part number RR.1675.768 BR cat number: 015/902532	Compliance Achieved
5.3.2.9 Para (3)	An access ramp shall be either positioned manually by staff or deployed semi- automatically by mechanical means, operated by staff or by the passenger.	Portaramp part number RR.1675.768 BR cat number: 015/902532	Compliance Achieved
5.3.2.9 Para (4)	If the ramp is power operated it shall incorporate a method of manual operation should power fail.		Not applicable
5.3.2.9 Para (5)	The ramp surface shall be slip resistant and shall have an effective clear width of a minimum of 760 mm.	Portaramp part number RR.1675.768 BR cat number: 015/902532	Compliance Achieved
5.3.2.9 Para (6)	Ramps having a clear width of less than 1 000 mm shall have raised edges on both sides to prevent mobility aid wheels from slipping off.	Portaramp part number RR.1675.768 BR cat number: 015/902533	Compliance Achieved
5.3.2.9 Para (7)	The upstands at both ends of the ramp shall be bevelled and shall not be higher than 20 mm. They shall have contrasting hazard warning bands.	Portaramp part number RR.1675.768 BR cat number: 015/902534	Compliance Achieved
5.3.2.9 Para (8)	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.	Refer to drawing number PB-C0- 2121411 for the wheelchair ramp storage.	Compliance Achieved
5.3.2.9 Para (9)	A semi-automatic ramp shall be fitted with a device capable of stopping the movement of that step if its front edge comes into contact with anything or person whilst the plate is in movement.		Not applicable
5.3.2.9 Para (10)	The ramp shall be provided with self-contrasting markings.	Portaramp part number RR.1675.768 BR cat number: 015/902535	
5.3.2.10	Boarding aids: on-board lifts		Compliance Achieved
5.3.2.10 Para (1)	Lifts shall be designed and assessed for an area of use defined by the maximum vertical gap they can		
5.3.2.10 Para (2)	overcome. The lift platform surface shall be slip resistant. At surface level, the lift platform shall have a minimum clear width of 760 mm and a length of 1 200 mm. According to appendix M, an additional length of 50 mm shall be available for feet above a height of 100 mm above the lift platform, considering both inboard and outboard orientations of		Not applicable
5.3.2.10 Para (3)	the wheelchair user. The bridging plate overriding the gap between the lift platform and the carriage floor shall have a minimum width		Not applicable
5.3.2.10 Para (4)	of 720 mm. The lift shall withstand a weight of at least 300 kg, placed at the centre of the lift platform distributed over an area		Not applicable
5.3.2.10 Para (5)	of 660 mm by 660 mm. Where provided, each control for deploying, lowering to ground level, raising and stowing the lift shall require continuous manual pressure and shall not allow an improper lift sequencing when the lift platform is occupied.		Not applicable
5.3.2.10 Para (6)	The lift shall incorporate a method of deploying, lowering to ground level with a lift occupant, and raising and		Not applicable Not applicable
5.3.2.10 Para (7)	stowing the empty lift if the power to the lift fails. No part of the lift platform shall move at a rate exceeding 150 mm/second during lowering and lifting an occupant, and shall not exceed 600 mm/second during deploying or stowing (except if the lift is manually		
5 0 0 40 Data (0)	deployed or stowed).		Not applicable
5.3.2.10 Para (8)	The maximum lift platform horizontal and vertical acceleration when occupied shall be 0,3 g. The lift platform shall be equipped with barriers to prevent any of the wheels of a wheelchair from rolling off the lift		Not applicable
5.3.2.10 Para (9)	platform during its operation.		Not applicable
5.3.2.10 Para (10)	A movable barrier or inherent design feature shall prevent a wheelchair from rolling off the edge closest to the vehicle until the lift is in its fully raised position.		Not applicable
5.3.2.10 Para (11)	Each side of the lift platform which extends beyond the vehicle in its raised position shall have a barrier a minimum 25 mm high. Such barriers shall not interfere with manoeuvring into or out of the aisle.		Not applicable
5.3.2.10 Para (12)	The loading-edge barrier (outer barrier) which functions as a loading ramp when the lift is at ground level, shall be sufficient when raised or closed, or a supplementary system shall be provided, to prevent a power wheelchair from riding over or defeating it.		Not applicable
5.3.2.10 Para (13)	The lift shall permit both inboard and outboard orientation of the wheelchair user.		Not one floor but
5.3.2.10 Para (14)	The lift shall be provided with self-contrasting markings.		Not applicable Not applicable
5.5.E. 10 1 dia (14)	The inclusion of provided with con-contracting markings.	L	Not applicable