

Table 2E - Rolling Stock Minimum Requirements and Specifications - CVL Service Type

Service Type: CVL		Min Req applies	Minimum Requirement Introduction Date*		*Where applicable, rolling stock is exempt from the early Minimum Requirement Introduction Date if it can be demonstrated that it will be replaced by new build rolling stock	
			If Not Exempt	If Exempt		
Type and Route Information	1	Class			Class 769	
	2	Type	N/A	N/A	Bi-Mode	
	3	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
	4	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
	5	Lease Start Date	N/A	N/A	01/06/2019	
	6	Lease End Date	N/A	N/A	31/10/2022	
	7	Number of units at the Start Date	N/A	N/A	0	
	8	Number of units (max number used during term of Grant Agreement)	N/A	N/A	4	
	9	Vehicles / Unit	N/A	N/A	4	
	10	Specified Routes	N/A	N/A	CVL + Barry/Penarth	
Minimum Requirements	11	PRM / RVAR Compliant (* Mandatory compliance by December 31st 2019)	✓	31/12/2019	N/A	Yes
	12	Seats aligned with windows		N/A	N/A	Yes
	13	PRM Compliant Toilets		N/A	N/A	Yes
	14	CET Toilet		N/A	N/A	Yes
	15	Baby changing facilities		N/A	N/A	Yes
	16	Power Supply available at all seats	✓	31/10/2020	31/12/2023	Yes
	17	Catering facilities		N/A	N/A	No
	18	Overhead racks throughout train for storing small items of luggage		N/A	N/A	Yes
	19	Facilities for storing large items of luggage within sight/proximity of passengers	✓	31/10/2020	N/A	Yes
	20	Storage capacity for pushchairs / prams	✓	31/10/2020	31/12/2023	Yes
	21	Dedicated cycle storage		N/A	N/A	No
	22	Flexible storage for cycles	✓	31/10/2020	31/12/2023	Yes
	23	Vehicle will not affect mobile phone signal	✓	31/10/2020	N/A	Yes
	24	Passenger Counting system	✓	31/10/2020	31/12/2023	No
	25	CCTV (passenger environment)	✓	31/10/2020	31/12/2023	Yes
	26	Wireless internet access	✓	31/10/2020	N/A	Yes
	27	Air Conditioning System	✓	31/10/2020	31/12/2023	No
	28	Pacer removal from service	✓	30/09/2020	N/A	Yes
29	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
30	Seat reservation		N/A	N/A	Yes	
31	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
General Information	32	Vehicle Length in metres	N/A	N/A	19.83 (DTSO,DTCO), 19.92 (MSO, TSOL)	
	33	Number of vehicles fitted with passenger counting system	N/A	N/A	0	
	34	Year built	N/A	N/A	1987 / 1988 / 1990	
	35	Age at the Start Date	N/A	N/A	28 / 30 / 31	
	36	Max speed in mph	N/A	N/A	100	
	37	Vehicle range limiting factor	N/A	N/A	Not Available	
	38	Flexibility to deploy on other routes	N/A	N/A	Subject to gauging and route compatibility assessment	
	39	Maximum operating length of train in metres	N/A	N/A	240	
	40	Remote Fault-finding systems	N/A	N/A	Traction monitoring is fitted, remote monitoring is available as an option	
	41	Vehicle and infrastructure monitoring systems	N/A	N/A	Vibration monitoring	
	42	CCTV (forward facing)	N/A	N/A	Yes	
	43	Acceleration rate in m/s ²	N/A	N/A	0.36	
	44	Deceleration rate in m/s ²	N/A	N/A	0.9	
	45	Engine Emission Standard	N/A	N/A	Stage III B	
	46	Unit tare weight in tonnes	N/A	N/A	163.1	
	47	Unit fully laden weight in tonnes	N/A	N/A	202.3	
	48	Diesel emission statement	N/A	N/A	Not Available	

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	1	Class			Class 769
Capacity Information	49	Standard Class Fixed Seats	N/A	N/A	289
	50	Standard Class Tip-Up Seats	N/A	N/A	0
	51	Standard class seating layout (1+2, 2+2, 2+3, longitudinal, etc.)	N/A	N/A	2+3
	52	First / Business Class Fixed Seats	N/A	N/A	0
	53	First / Business class seating layout (1+2, 2+2, 2+3, longitudinal, etc.)	N/A	N/A	N/A
	54	Wheelchair Spaces per Unit	N/A	N/A	2
	55	Standing Capacity	N/A	N/A	Assume 0.25sqm per standing passenger 269
	56	Dedicated cycle storage spaces per unit	N/A	N/A	0
	57	Flexible storage spaces for cycles per unit	N/A	N/A	2
	58	Toilets per unit	N/A	N/A	2
	59	Door position on vehicle (i.e. vehicle end doors or 1/3 and 2/3 positioned doors)	N/A	N/A	Pneumatically operated bi-parting sliding, 1/3 and 2/3 position
	60	Facilities for standing passengers	N/A	N/A	Seat back handles and grab poles provided
	61	Number of fixed tables per vehicle	N/A	N/A	4 (prior to PRM conversion)
	62	Number of folding tables per vehicle	N/A	N/A	10 / 10 / 6 / 6 (prior to PRM conversion)
	63	Type of heating and ventilation fitted (air conditioning, pressure ventilation and body side heater, etc.)	N/A	N/A	Cab Cooling, Saloon heating
	64	Floor covering (i.e. lino, carpet, etc.)	N/A	N/A	Lino
	65	Door control system fitted	N/A	N/A	IFE door control is fitted
	66	GPS system fitted	N/A	N/A	[REDACTED]
Rolling Stock Improvements	68	Refurbishment - Start Date			14/10/2018
	69	Refurbishment - End Date			07/09/2019
	70	Refurbishment - Scope			Train wrap to rebrand, internal refurbishment, including seat cover replacement, grab pole repainting to match TFW branding
	71	Provides level access with sliding gap filling step			No
	72	930mm floor height			No
	73	Passenger Assist Bluetooth Beacon fitted by 2020			Yes
	74	[REDACTED] PIS fitted			No
	75	3-pin and USB power sockets at every seat			USB sockets to be fitted at every seat
	76	End gangways fitted			Yes
	77	On-Train Data Recorder (OTDR) data harvester			To be fitted
	78	Wheel Slip/ Slide Protection (WSP) system fitted			Yes
	79	On Board Energy Storage (OBES) fitted			No
	80	Twin Cat 7 ethernet backbones to enable gigabit transmission fitted			No
	81	Driver Advisory System (DAS) to be fitted if not already installed			Yes
	82	Selective Door Opening (SDO) fitted			No
	83	ETCS fitted			No