

## PRODUCT REFERENCE LIST

### VIPA SP

2019

Year	Country	Project Name	Quantity of rail seats	Max Axle Load	Line Speed (kph)	Curvature (m)	Rail section
2000	Denmark	Oresund Tunnel	180		180	Tangent	60E1
2000	Italy	ATM Milan	18	22T	50	170	50E5
2002	Norway	Jernbaneverket	826	22T		Tangent	54E3
2002	USA	Oakland Viaduct	420				115RE
2003	France	SNCF	9100	25T	110	Tangent	50E6
2003	France	SNCF	100	22T	110		60E1
2003	UK	CRTL	200	22.5T	30		60E1
2003	USA	Charlotte	2400	22T			115RE
2004	Argentina	BA Metro	300	14T	50	200	54E1
2000	Italy	ATM Milan	280	12.5T	50	170	60E1
2004	UK	DLR	30130	10.5T	80	65	39E1
2004	UK	Network Rail	72	22.5T	50		56E1
2004	UK	Network Rail	250	22.5T	30		56E1
2005	Denmark	Oresund Tunnel	420			Tangent	60E1
2005	France	SNCF	905	22T			50E6
2005	Norway	Oslo Sporveier	410	15T		150	54E3
2005	Romania	CFR	160	22.5T		Tangent	60E1
2005	Sweden	Banverket	1500	22.5T	100		60E1
2005	UK	DLR	13586	10.5T	80	120	39E1
2005	UK	London Underground	14670	11T		200	54E1
2005	UK	Network Rail	1150	25T	30		56E1
2005	UK	Network Rail	16470	25T	90		56E1
2006	Brazil	Sao Paulo Metro	18000	17.5T	100	300	TR57
2006	Denmark	Banedanmark	2155	25T		Tangent	60E1
2006	Sweden	Oresund Tunnel	180	22.5T	160	Tangent	60E1
2006	Switzerland	SBB	214	22.5T			54E1
2006	UK	Network Rail	3500	22.5T	160	Tangent	56E1
2006	UK	Network Rail	1900	22.5T			56E1
2007	UK	DLR	10974	10.5T	80	100	39E1
2007	UK	Network Rail	332	22.5T			56E1
2008	UK	DLR	1926	10.5T	80	110	39E1
2008	UK	Network Rail	496	25T			56E1
2009	UK	DLR	1044	10.5T	50	60	39E1
2009	UK	Manchester tram	306	11T	50	40	39E1

2009	UK	Network Rail	844	25T	15	200	56E1
2009	UK	Network Rail	1963	25T	5	Tangent	56E1
2010	France	SNCF	450	22T			50E6
2010	UK	DLR	14	10.5T	50		39E1
2010	UK	Manchester tram	802	11T	50	140	39E1
2010	UK	Network Rail	700	22.5T		Tangent	56E1
2010	UK	Network Rail	84	18T	40	300	56E1
2010	UK	Network Rail	1058	25T	15	Tangent	56E1
2010	UK	Network Rail	1739	25T	60	Tangent	56E1
2010	UK	Network Rail	3228	25T	80	Tangent	56E1
2010	UK	Network Rail	1100	11T		110	56E1
2010	UK	Network Rail	76	25T	80	300	56E1
2010	UK	Network Rail	24	25T	30	Tangent	56E1
2011	Denmark	Banedanmark	572	25T			60E1
2011	Denmark	Banedanmark	1342	25T			60E1
2011	Russia	Nizhniy Novorod Metro	7500				R65
2011	UK	Manchester tram	417	11T	15	30	39E1
2011	UK	Network Rail	3140	25T	60	Tangent	56E1
2011	UK	Network Rail	36	25T	15	Tangent	56E1
2011	UK	Network Rail	30	25T	10	Tangent	56E1
2011	UK	Network Rail	88	22.5T	60	Tangent	56E1
2012	Denmark	Banedanmark	8050	25T			60E1
2012	UK	Network Rail	26	25T	60	Tangent	56E1
2012	UK	Network Rail	36	25T	80	Tangent	56E1
2012	N. Ireland	Network Rail	820	18T	60	Tangent	56E1
2013	Denmark	Banedanmark	150	25T			60E1
2013	France	SNCF	174	22T			60E1
2103	Italy	Rome Metro	16	22.5T			50E5
2013	UK	DLR	1592	11T	50	150	39E1
2013	UK	London Underground	38	13T	30	Tangent	56E1
2013	UK	Network Rail	760	18T	40	300	56E1
2013	UK	Network Rail	120	25T	30	Tangent	56E1
2013	UK	Crossrail	1502	11T	80	160	56E1
2014	UK	Network Rail	615	25T			56E1
2014	UK	Network Rail	952	22.5T			56E1
2014	UK	Network Rail	1634	25T			BS80A
2015	UK	Network Rail	500	25T	120	500	56E1
2015	Serbia	ISR	800	22.5T	40	650	60E1
2016	UK	Network Rail	400	22.5T	80	Tangent	56E1
2016	UK	Network Rail	56	22.5T	50	500	56E1