

PRODUCT REFERENCE LIST

VANGUARD

2019

Year	Authority	Description	Location	No	Track Category
1999	Velim Test Track	Silent Track project - 81 concrete sleeper (Trial)	Czech Republic	162	Ballast
2000	London Underground	Victoria Line trial site - 134Tarmac sleepers installed	UK	268	Slab
2000	Network Rail	Waterloo East nr Hungerford Bridge - 56 RMC concrete sleepers	UK	112	Ballast
2001	Madrid Metro	Line 11. Installed on "hedgehog" blocks retrofit, August 2001.	Spain	100	Slab
2001	Madrid Metro	Line 8. Installed on "hedgehog" blocks new construction, November 2001	Spain	400	Slab
2002	MTRC	Siu Ho Wan depot, Airport Line, 01/2002. Understood from Steve Barlow	Hong Kong	150	Slab
2003	MTRC	Siu Ho Wan depot, Airport Line. Installed on concrete sleepers in ballast	Hong Kong	160	Ballast
2003	ATM, Milan	Retrofit in Line 1 at mid-span	Italy	280	Slab
2003	ATM, Milan	Retrofit on curve in Line 2 by 02/2003	Italy	170	Slab
2003	CTRL	St Pancras Station, London. Eastern Interim Station. P11-13	UK	3500	Slab
2003	MBTA Boston	Charles St / MGH - Park tunnel. Baseplates to be installed on timber sleepers	USA	1700	Ballast
2004	GZM L1	Guangzhou Metro Line 1 trial	China	700	Slab
2004	MTRC	Originally for retrofit on slab at Hang Hau station during early 2003.	Hong Kong	270	Slab
2004	Jernbaneverket	Small scale trial at Asker	Norway	32	Ballast
2004	Barcelona Metro	Trial	Spain	400	Ballast
2004	PATCO	Port Authority Transport Co (PATCO) New Jersey Assy 10343, 80 baseplates	USA	80	Slab
2005	PTA	Perth-Mandurah, Roe St Tunnel (Trial)	Australia	130	Slab
2005	GZM L3	Guangzhou Metro Line 3 - 3 tunnels	China	2442	Slab
2005	GZM L3	Guangzhou Metro Line 3 - Guangzhou Theatre - July	China	2820	Slab

2005	GZM L4	Guangzhou Metro Line 4 - 13 tonnes + 2.5 tonnes magnetic force	China	990	Slab
2005	Network Rail	Thameslink Box	UK	2000	Slab
2005	Newcastle Metro	Byker Viaduct and Manor Station	UK	110	Slab
2006	PTA	Perth-Mandurah	Australia	10000	Slab
2006	GZM L3	Guangzhou Metro Line 3 - order 5878 - March	China	6010	Slab
2006	CTRL	St Pancras Station, London. Western Interim Station P1-4	UK	4500	Slab
2006	CTRL	St Pancras Station, London. International station P5-10	UK	8000	Slab
2007	Beijing Metro L5	Retrofit assembly	China	25830	Slab
2007	GZM L5	Guangzhou Metro Line 5 - 13 tonnes + 2.5 tonnes magnetic force	China	1216	Slab
2007	GZM L5	Guangzhou Metro Line 5 - 13 tonnes + 2.5 tonnes magnetic force	China	5134	Slab
2007	DLR-WAX	DLR Woolwich Arsenal Extension	UK	990	Slab
2008	Beijing Metro L5	Retrofit assembly	China	7380	Slab
2008	GZM L5	Guangzhou Metro Line 5 - 13 tonnes + 2.5 tonnes magnetic force	China	2538	Slab
2008	GZM L5	Guangzhou Metro Line 5 - 13 tonnes + 2.5 tonnes magnetic force	China	4096	Slab
2008	Shenyang Metro L1	Shenyang Metro Line 1	China	5562	Slab
2008	DLR-LEX	DLR Lewisham Refurbishment	UK	4000	Slab
2008	DLR 3 CAR	DLR 3 CAR Extension	UK	800	Slab
2009	Sao Paulo L1	Retrofit assembly	Brazil	2000	Slab
2009	Beijing Metro	Beijing Yizhuang Line	China	1694	Slab
2009	Beijing Metro L15	Beijing Metro Line 15 - 14 tonnes	China	1285	Slab
2009	Beijing Metro L5	Retrofit assembly	China	1804	Slab
2009	GZM L3 Extension	Guangzhou Metro Line 3 Extension - Airport Line	China	6328	Slab
2009	GZM L5	Guangzhou Metro Line 5 - 13 tonnes + 2.5 tonnes magnetic force	China	8096	Slab
2009	Nanjing Metro L1	Retrofit assembly	China	836	Slab
2009	Nanjing Metro L2	Nanjing Metro L2	China	1476	Slab
2009	Nanjing Metro L2	Nanjing Metro L2	China	1710	Slab
2009	Shanghai Metro L8	Shanghai Metro L8 - DTIII2	China	1350	Slab
2009	Shanghai Metro L8	Shanghai Metro L8 - Egg	China	650	Slab
2009	Shanghai Metro L8	Shanghai Metro L8 - DTIII2	China	2650	Slab
2009	Shenyang Metro L1	Shenyang Metro L1	China	384	Slab
2009	KRTC	Doonrang metro	Korea	4200	Slab
2009	PATCO	Concrete Viaduct	USA	7000	Slab
2010	Sao Paulo L1	Retrofit assembly	Brazil	820	Slab
2010	Sao Paulo L1	Retrofit assembly	Brazil	520	Slab
2010	Shanghai Metro L8	Shanghai Metro L8 - Egg	China	1460	Slab

2010	Shanghai Metro L8	Shanghai Metro L8 - DTIII2	China	5454	Slab
2010	Shanghai Metro L8	Shanghai Metro L8 - DTIII2	China	4300	Slab
2010	Shanghai Metro L9	Shanghai Metro L8 - DTIII2	China	850	Slab
2010	Shengyang Metro L1	Shanghai Metro L1	China	144	Slab
2010	Belgrade Central Station	Belgrade Central Station	Serbia	3000	Slab
2010	Madrid Metro	Line. 9	Spain	1500	Slab
2010	Shanghai Metro L1 - Egg	Shanghai Metro L1 - Egg	China	650	Slab
2010	Shanghai Metro L9 - DTIII2	Shanghai Metro L9 - DTIII2	China	834	Slab
2010	Shanghai Metro L2 - DTIII A	Shanghai Metro L2 - DTIII A	China	2520	Slab
2010	Shanghai Metro L1 - Egg	Shanghai Metro L1 - Egg	China	3520	Slab
2010	Shanghai Metro L2 - Egg	Shanghai Metro L2 - Egg	China	82	Slab
2010	Shanghai Metro L4 - DTIII2	Shanghai Metro L4 - DTIII2	China	2080	Slab
2010	Shanghai Metro L8 - DTIII2	Shanghai Metro L8 - DTIII2	China	788	Slab
2010	Shenyang Metro L2	Shenyang Metro L2	China	7897	Slab
2010	Nanjing Metro L1	Nanjing Metro L1	China	960	Slab
2011	Madrid Metro Phase. 2	Line. 9	Spain	1500	Slab
2011	Network Rail	St. Pancras Chambers tunnel	UK	1800	Slab
2011	Shanghai Metro L10-Lord/GB	Shanghai Metro L10-Lord/GB	China	1020	Slab
2011	Nanjing Metro L1	Nanjing Metro L1	China	840	Slab
2011	Shanghai Metro L3-WJ-2	Shanghai Metro L3- WJ-2	China	2200	Slab/Viaduct
2011	Beijing Metro L15	Beijing Metro L15	China	485	Slab
2011	Beijing Metro Daxing	Beijing Metro Daxing	China	928	Slab
2011	Shenyang Metro L1	Shenyang Metro L1	China	798	Slab
2012	Oslo Metro	Oslo Metro NV	Norway	1600	Slab
2012	Moscow Metro	Approval Trial	Russia	200	Slab
2012	LUL Central Line	e-clip special design	UK	600	Slab
2012	Stockholm Metro		Sweden		Slab
2012	Wuhan Metro L2	Wuhan Metro L2	China	4200	Slab
2012	Shanghai Metro L10 - Egg	Shanghai Metro L10 - Egg	China	1144	Slab
2012	Nanjing Metro L2 - DT VI2	Nanjing Metro L2- DT VI2	China	1150	Slab
2012	Changsha Metro L2	Changsha Metro L2	China	6000	Slab
2012	Belgrade Central Station Phase. 2	Belgrade Central Station	Serbia	3000	Slab



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2013	Express Rail Link	New rail link	Hong Kong	10700	Slab
2013	MTR	Express Rail Link	Hong Kong	10700	Slab
2013	MTRC	Kwun Tong Line Extension	Hong Kong	1860	Slab
2013	MTRC	South Island Line (SIL) Tender	Hong Kong	448	Slab
2013	MTRC	Kwun Tong Line Extention (KTE) Tender	Hong Kong	2680	Slab
2013	Rome Metro	Roma Metropolitan	Italy	1026	Slab
2013		WJR	Japan	320	Slab
2013	Trafikverket	Bilfinger Berger Viaduct, Stockholm	Sweden	718	Slab
2014	Network Rail	Crossrail – Pudding Mill Lane DLR Station Re-Alignment	UK	708	Slab
2014	Istanbul Metro	Golden Horn Bridge	Turkey	5834	Slab
2014	London Underground	Central Line installed at Holland Park	UK	600	Slab
2015	Belgrade Central Station Phase. 2	Belgrade Central Station	Serbia	10600	Slab
2015	London Underground	Central Line installed at Holland Park	UK	1600	Slab