



**Product/Solution:** Under Sleeper Pads

Under Sleeper Pads for ballast protection and improved track stability

Client/Project	Country	Year
Göttingen - Kassel	Germany	2020
Kayas - Yerköy	Turkey	2020
Pragersko Train Station	Slovenia	2020
Mogosoia - Bukarest	Romania	2020
Wa-Ri Line (Heavy haul)	China	2019
Standard USP for Network Rail	United Kingdom	2019
High speed line Ankara-Sivas Deminyolu, Kayas-Yerkoy	Turkey	2019
Shi-Tai Line IIIa	China	2018 – 2019
Meng-Hua Coal Line (Heavy haul)	China	2018
Haros Station	Hungary	2018
Püspökladany - Ebes	Hungary	2018
Kelenföld - Szazhalombatta	Hungary	2018
Pomgrad, Murska Sobota	Slovenia	2018
SOMTECH (High speed line)	Spain	2018
High speed line Rome - Naples	Italy	2018
Railway Rikonin, 2 tunnels with reduced ballast height	Czech Republic	2018
DB line Hannover – Würzburg	Germany	2018
Ankara – Sivas (section 1: Yerköy – Sivas)	Turkey	2018
Shen-Shuo Coal Line (Heavy haul)	China	2017
Bao-Shen Coal Line (Heavy haul)	China	2017
JR East – High Speed Line	Japan	2017
Göttingen – Hannover	Germany	2017
IKD Kosice: Modernization of the tram line	Slovakia	2017
Daqin Coal Line	China	2016 – 2017
JR West Shinkansen	Japan	2016 – 2017
Reduction of ballast depth in tunnels (Calabria)	Italy	2013 – 2017
HSL Bologna – Florence	Italy	2013 – 2017
Frame contract Network Rail	United Kingdom	2016
Oulu-Parma Rail	Finland	2016
Maintenance London Underground	United Kingdom	2015 – 2016
Freight train bypass St. Pölten	Austria	2015 – 2016
Network Rail: Folkestone/Warren (track upgrade)	United Kingdom	2015
Renovation of the elevated track of L12, Metro Mexico	Mexico	2015

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Client/Project	Country	Year
SATEBA, SOTRADEST	France	2015
Frame contract SNCF	France	2015
Schweizerische Südostbahn (SOB), Müntschemier	Switzerland	2015
TENT	Serbia	2015
Network Rail, Folkestone/Warren Track upgrade	United Kingdom	2015
Heavy haul sleepers (client: Abetong AB)	Sweden	2014 – 2015
Gotthard Base Tunnel	Switzerland	2009 – 2015
Tram Bratislava Dubravka, modernization	Slovakia	2014
Railway Žilina – Kosice	Slovakia	2014
High Speed Vilagarcia – Padron	Spain	2014
Shi-Tai Line	China	2014
Fengtai West Railways station	China	2014
Schweizerische Südostbahn, Gübsensee	Switzerland	2014
HSL Vilagarcia del Padron	Spain	2014
Malmbanan: ore track Lulea – Narvik	Sweden	2014
Puente Vallejo, Mexico City	Mexico	2014
LGV EST	France	2011 – 2014
Ma On Shan Line 4, Hongkong	China	2013
Tunnel Champreveyres	Switzerland	2013
Usti nad Oltici	Czech Republic	2013
HSL Hino	Japan	2013
HSL JRC Komaki	Japan	2013
Omiya TC, Straight Line for Greater Tokyo	Japan	2013
Feng Sha Line	China	2012 – 2013
Hojgaard Industrie, Fredericia	Denmark	2012
Northern Railway and South Central Railway	India	2012
Bridge EF Carajas (heavy haul)	Brazil	2012
LGV Est, Strasbourg	France	2012
RFF Instandhaltung	France	2012
DB – Deutsche Bahn	Germany	2012
Test Track MRS	Brazil	2012
ÖBB – Austrian Federal Railways	Austria	2003 – 2012
Emmaboda – Karlskrona (customer: Trafikverket)	Sweden	2011
Meerane	Germany	2011
Plochingen – Immendingen	Germany	2011
Cologne, Kalk-Nord	Germany	2011

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Client/Project	Country	Year
Neustadt an der Weinstraße – Hochspeyer	Germany	2011
Berlin – Cottbus	Germany	2010
Wengen-East, Hagen	Germany	2010
Würzburg – Rohrbach	Germany	2010
Stuttgart – Mannheim, Mühlacker	Germany	2010
City Center, Moscow	Russia	2010
ADIF	Spain	2010
SBB – Swiss Federal Railways	Switzerland	2003 – 2010
TTCI Pueblo	USA	2009
San Sebastian (customer: Flota Projectors Sigulares)	Spain	2009
Havlickuv Brod – Okrouhlice, small radius curve	Czech Republic	2007
ČD – Czech Railways	Czech Republic	2007
Infrabel	Belgium	2007
Jernbaneverket	Norway	2006 – 2007
DB – German Federal Railways	Germany	2003 – 2007
ADIF	Spain	2003 – 2007
KR - Korean Railways	South Korea	2004 – 2005
High-speed line Madrid – Barcelona	Spain	2000
Hannover – Würzburg	Germany	1999
Westbahn	Austria	1999
Feldkirch – Buchs	Austria	1998 – 1999
Ostbahn	Austria	1998



### Sleeper Pads for vibration isolation

Customer/Project	Country	Year
Dongducheon-Yecheon Railway	South Korea	2017 – 2018
Daegu Line Railway	South Korea	2017
Earls Court / District Line	United Kingdom	2016
Line E30 part 2, Trzebinai – Krzeszowice	Poland	2015 – 2016
Metro Oslo, Ostensjobanen (Line 3)	Norway	2015 – 2016
Norsborg Depot	Sweden	2015
Thameslink	United Kingdom	2015
Wislok	Poland	2015
MPL Krakow – Balice	Poland	2014 – 2015
Viennese Lines	Austria	2011 – 2015
T-O for Greater Tokyo	Japan	2014
Shin Iwakuni Vehicle (bypass line of Sanyo Shinkansen)	Japan	2014
Fengtai West Railways station	China	2014
Sungnam-Yeouju D.E.R.	South Korea	2014
Vale – Carajás Line	Brazil	2014
Rail Baltica (Russia – Estonia – Latvia – Lithuania – Poland)	Sweden	2013 – 2014
Ma On Shan Line 4, Hongkong	China	2013
Usti nad Oltici	Czech Republic	2013
RTRI, Transit / Bridge Phase 2	Japan	2013
Metro Oslo (Kolsas Banen)	Norway	2013
VAE Nortrak (maintenance)	USA	2012
Hojgaard Industrie, Fredericia	Denmark	2012
Dedicated Freight Corridor	India	2012
Bridge EF Carajas (heavy haul)	Brazil	2012
TTCI Pueblo	USA	2012
Oslo / Spenncon	Norway	2012
Czestochowa, ul. Jesienna	Poland	2012
London Underground, District Line	England	2011 – 2012
Ferrovía do aco (heavy haul)	Brazil	2011
JR Kunitachi	Japan	2011

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Customer/Project	Country	Year
London Underground, District Line	England	2011
Lindau (Lake Constance)	Germany	2010
Berlin – Cottbus	Germany	2010
Blackfriars Bridge (Thameslink), London	England	2010
ADIF	Spain	2010
Birmingham Arena tunnel	England	2009
Brynsbacken	Norway	2009
Metro Seoul	South Korea	2009
Metro Amsterdam, Line East	The Netherlands	2008
Bruchsaltunnel	Germany	2006
Mattstetten – Rothrist	Switzerland	2004
Umeqaoka - Odakyu Electric Railway	Japan	2004
Britomart Station	New Zealand	2003
Cologne – Aachen	Germany	2001
Tram Cologne	Germany	2000
Concrete girder bridge Sunpyung	South Korea	1998
Öresund	Denmark	1996 – 1997
Sandvika station, Oslo	Norway	1993
Metro under Hotel Plaza, Oslo	Norway	1990
Grønland Torg, Oslo	Norway	1990



### Sleeper Pads in turnouts on ballasted tracks

Customer/Project	Country	Year
Kayas - Yerköy	Turkey	2022
Haros Station	Hungary	2018
Sampyo, Seoul	South Korea	2017
KVMRT Project	India	2016 – 2017
OeBB – Austrian Federal Railways	Austria	2005 – 2017
Earls Court / District Line	United Kingdom	2016
Long Island Rail Road (LIRR), New York	USA	2016
Vale Carajás Line	Brazil	2016
Station Borovnice	Slovenia	2016
Frame contract Abetong / Trafikverket	Sweden	2015 – 2016
Circle/District/Metropolitan Line	United Kingdom	2015
Norsborg Depot	Sweden	2015
Crossrail turnouts	United Kingdom	2015
VAMAV – Track Dél-Balaton	Hungary	2015
Gotthard Base Tunnel	Switzerland	2012 – 2015
Railway station Plana nad Luznici	Czech Republic	2014
East Coast Mainline	United Kingdom	2012
Network Rail	England	2012
TTCI timber turnout test track, Pueblo Colorado	USA	2012
UP elastic bedding of turnouts, Nebraska	USA	2012
LGV Est	France	2011
Santo Domingo (producer of turnout: Felguera Melt)	Dominican Republic	2011
Metro Madrid (producer of turnout: Felguera Melt)	Spain	2011
Sleeper pads in turnout Scharnhornstraße, Duisburg	Germany	2010
Sleeper pads in turnout with stripes, Gotha	Germany	2010
Sleeper pads in turnout, Nuremberg	Germany	2010
Lenzburg	Switzerland	2009
Brynsbacken	Norway	2009
ČD – Czech Railways	Czech Republic	2007
Jernbaneverket	Norway	2007
SBB – Swiss Federal Railways	Switzerland	2006
DB – German Federal Railways	Germany	2004
Pro Rail	The Netherlands	2003