

## REFERENCE LIST / GLAS TRÖSCH AG RAIL



Train Manufacture	Train Identification from Manufacture	Operator / Owner	Train Identification from Operator	Homologation Standard	Impact Speed (Test projectile)	Country of operation	Continent	Year of the first delivery	Other information	Photo
 <b>BOMBARDIER</b>	V300 Zefiro		ETR 1000	TSI HS RST Norm: EN 15152	600 km/h	Italy	EUROPA	2012	Front windscreen with film heating system	
<b>BOMBARDIER</b>	Zefiro	 中国铁建	CRH1-380	TSI HS RST Norm: EN 15152	540 km/h	China	ASIA	2011	Front windscreen with wire heating system	
<b>SIEMENS</b>	VELARO		AVES103	TSI HS RST Norm: UIC 651	530 km/h	Spain	EUROPA	2003	Front windscreen Upper and lower with wire heating system	
<b>SIEMENS</b>	ICE 3		403	TSI HS RST Norm: UIC 651	530 km/h	Germany	EUROPA	1998	Front windscreen Upper and lower with wire heating system	
<b>SIEMENS</b>	VELARO D		411	TSI HS RST Norm: EN 15152	520 km/h	Germany	EUROPA	2009	Front windscreen with wire heating system	
<b>SIEMENS</b>	VELARO D		320	TSI HS RST Norm: EN 15152	520 km/h	United Kingdom - France	EUROPA	2012	Front windscreen with wire heating system	

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<b>SIEMENS</b>	VELARO D	 Turkey Railway	HT 80001	TSI HS RST Norm: EN 15152	520 km/h	Turkey	EUROPA	2014	Front windscreen with wire heating system	
<b>SIEMENS</b>	VELARO	 中国铁建	CRH3	TSI HS RST Norm: UIC 651	510 km/h	China	ASIA	2009	Front windscreen Upper and lower with wire heating system	
<b>CAF</b>	CC7 OARIS		AVES105	Norm: EN 15152	510 km/h	Spain	EUROPA	2010	Front windscreen with wire heating system	
<b>Talgo</b>	Avril	--	Prototipe	TSI HS RST Norm: EN 15152	490 km/h	Spain	EUROPA	2012	Front windscreen with wire heating system	
<b>HYUNDAI Rotem</b>	KTX II		KTX II	Norm: UIC 651	490 km/h	South Korea	ASIA	2007	Front windscreen with film heating system	
<b>SIEMENS</b>	ICx		--	TSI HS RST Norm: EN 15152	480 km/h	Germany	EUROPA	2014	Front windscreen with wire heating system	









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AnsaldoBreda A Finmeccanica Company	--	TRENITALIA GRUPPO FERROVIE DELLO STATO	ETR500	Norm: 308474 esp.7	460 km/h	Italy	EUROPA	2014	Front windscreen with film heating system and frame	
Talgo	350 SRO	المؤسسة العامة للطرق الحديدية SAUDI RAILWAYS ORGANIZATION	--	TSI HS RST Norm: EN 15152	460 km/h	Saudi Arabia	ASIA	2014	Front windscreen with wire heating system	
STADLER	EC250	SBB CFF FFS	--	TSI Rolling Stock Norm: EN 15152	450 km/h	Switzerland	EUROPA	2016	Front windscreen with film heating system and frame	
AnsaldoBreda A Finmeccanica Company	EMU V250	--	Prototipe	TSI HS RST Norm: UIC 651	450 km/h	Czech Republic	EUROPA	2006	Front windscreen with film heating system and frame	
CAF	FLYTOGET	Flytoget	-	TSI Rolling Stock Norm: EN 15152	435 km/h	Norway	EUROPA	2016	Front windscreen with film heating system	
<b>BOMBARDIER</b>	FV Dosto	SBB CFF FFS	--	TSI HS RST Norm: EN 15152	420 km/h	Switzerland	EUROPA	2013	Front windscreen with film heating system and frame	

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<i>Talgo</i>	250	<i>renfe</i>	AVES130	TSI HS RST Norm: UIC 651	410 km/h	Spain	EUROPA	2005	Front windscreen with wire heating system	
<i>Talgo</i>	250	 Uzbekistan Railways	--	TSI HS RST Norm: UIC 651	410 km/h	Uzbekistan	ASIA	2016	Front windscreen with wire heating system	
<b>ALSTOM</b>	ICN	 SBB CFF FFS	RABDe 500	Norm: UIC 651	360 km/h	Switzerland	EUROPA	1998	Front windscreen with film heating system	
<b>BOMBARDIER</b>	Midlan Mainline	 Midland Mainline	Class 222	Norm: BR 566 type 3	350 km/h	United Kingdom	EUROPA	2002	Front windscreen with film heating system and frame	
<b>BOMBARDIER</b>	Virgin Cross Country	 Virgin trains	Class 220/221	Norm: BR 566 type 3	350 km/h	United Kingdom	EUROPA	2000	Front windscreen with film heating system and frame	