

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
 BOMBARDIER	V300 Zefiro		ETR 1000	TSI HS RST Norm: EN 15152	600 km/h	Italy	EUROPA	2012	Front windscreen with film heating system	
BOMBARDIER	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	
SIEMENS	VELARO		AVES103	TSI HS RST Norm: UIC 651	530 km/h	Spain	EUROPA	2003	Front windscreen Upper and lower with wire heating system	
SIEMENS	ICE 3		403	TSI HS RST Norm: UIC 651	530 km/h	Germany	EUROPA	1998	Front windscreen Upper and lower with wire heating system	
SIEMENS	VELARO D		411	TSI HS RST Norm: EN 15152	520 km/h	Germany	EUROPA	2009	Front windscreen with wire heating system	
SIEMENS	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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SIEMENS	VELARO D	 Turkey Railway	HT 80001	TSI HS RST Norm: EN 15152	520 km/h	Turkey	EUROPA	2014	Front windscreen with wire heating system	
	EMU 260 - 320		--	Norm: EN 15152	512 km/h	South Korea	ASIA	2019	Front windscreen with film heating system and frame	
ALSTOM	AVELIA		--	Norm: EN 15152	512 km/h	USA	North America	2018	Front windscreen with wire heating system	
SIEMENS	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	
CAF	CC7 OARIS		AVES105	Norm: EN 15152	510 km/h	Spain	EUROPA	2010	Front windscreen with wire heating system	
	Avril	--	Prototipe	TSI HS RST Norm: EN 15152	490 km/h	Spain	EUROPA	2012	Front windscreen with wire heating system	

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	KTX II		KTX II	Norm: UIC 651	490 km/h	South Korea	ASIA	2007	Front windscreen with film heating system	
	ICx		--	TSI HS RST Norm: EN 15152	480 km/h	Germany	EUROPA	2014	Front windscreen with wire heating system	
	--		ETR500	Norm: 308474 esp.7	460 km/h	Italy	EUROPA	2014	Front windscreen with film heating system and frame	
	350 SRO		--	TSI HS RST Norm: EN 15152	460 km/h	Saudi Arabia	ASIA	2014	Front windscreen with wire heating system	
	EC250		--	TSI Rolling Stock Norm: EN 15152	450 km/h	Switzerland	EUROPA	2016	Front windscreen with film heating system and frame	
	EMU V250		ETR700	TSI HS RST Norm: UIC 651	450 km/h	Italy	EUROPA	2006	Front windscreen with film heating system and frame	




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	FLYTOGET		-	TSI Rolling Stock Norm: EN 15152	435 km/h	Norway	EUROPA	2016	Front windscreen with film heating system	
BOMBARDIER	FV Dosto		--	TSI HS RST Norm: EN 15152	420 km/h	Switzerland	EUROPA	2013	Front windscreen with film heating system and frame	
<i>Talgo</i>	250		AVES130	TSI HS RST Norm: UIC 651	410 km/h	Spain	EUROPA	2005	Front windscreen with wire heating system	
<i>Talgo</i>	250		--	TSI HS RST Norm: UIC 651	410 km/h	Uzbekistan	ASIA	2016	Front windscreen with wire heating system	
	--		A Class 71	Norm: EN 15152	410 km/h	Norway	EUROPA	2017	Front windscreen with film heating system	
	ICN		RABDe 500	Norm: UIC 651	360 km/h	Switzerland	EUROPA	1998	Front windscreen with film heating system	

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BOMBARDIER	Midlan Mainline		Class 222	Norm: BR 566 type 3	350 km/h	United Kingdom	EUROPA	2002	Front windscreen with film heating system and frame	
BOMBARDIER	Virgin Cross Country		Class 220/221	Norm: BR 566 type 3	350 km/h	United Kingdom	EUROPA	2000	Front windscreen with film heating system and frame	