

EMU 3-Car	EMU 4-Car	DMU 2-Car	DMU 3-Car	DMU 4-Car	No. TJA	Requirement / Proof	Requirement / Proof Ident	Applicable Standards	Document Id (Hyperlink)	Version	Date	Target	HID	State	Sent	Response	List of data / Documentation	Technical description	Drawing	Certificate	Calculation (incl. Report)	Component Test (incl. spec. + report)	Vehicle Type Test	Assessment	Comment
x	x	x	x	x	2.2.2	Test and Calculation automatic and Rescue coupler - Declaration of Conformity	N		Declaration of Conformity automatic coupler_Estland_de_en		7.8.12		H027; B004	R; P	7.9.12; 9.10.12	A:8.10.12;						x		Schaku	Suppliers documentation;
x	x	x	x	x	2.2.2	Drawing rescue coupler	N		2.010.589-V01 Drawing Scharfenberg adaptor coupler_set	V01	25.8.11	--	H027; B001	R; P	7.9.12; 29.6.12	A:8.10.12;			x					Schaku	Suppliers documentation
					2.2.4	2.2.4 Buffing, innercoupling and draw gear components	A										-	-	-	-	-	-	-		not applicable
x	x	x	x	x	2.3	2.3 Passive safety	A	EN15227 Category C-1													x	x			Test of the Crash Module
x	x	x	x	x	2.3	Calculation of the passive safety	N		AL_1312053-_Crash Concept and Analysis	--	14.12.12	--	H052	P	20.3.13						x			Stadler	
x	x	x	x	x	2.3	Dynamic test of the crash elements	N		12_C-068_cabine_en	0	28.8.12	--	B005 H052	P	29.10.12 20.3.13							x		VUKV or similar	Stadler will choose the testing institute
x	x	x	x	x	2.3	Dynamic test of the crash elements	N		12_C-067_crashbox_en	0	24.8.12		B005 H052	P	29.10.12 20.3.13							x		VUKV or similar	Stadler will choose the testing institute
x	x	x	x	x	3	3. Track interaction and gauging	A																		
x	x	x	x	x	3.1	3.1 Vehicle gauge	A	-									-	-	-	-	-	-	-		
x	x	x	x	x	3.1.1	3.1.1 Vehicle gauge	A	GOST 9238-83 (Size T)													x				acceptation chapter 3.2.2 maximum height of 235 mm are accepted
x	x	x	x	x	3.1.1	Gauge Analysis	N		AL_1409829_c Gauge Analysis	c	5.2.13	4.4.13	B009	P	5.2.13						x				Termin nachfragen
x	x	x	x	x	3.1.1	Gauge Analysis	N		AL_1409829-b Gauge Analysis.pdf	b	14.11.12		B006	Z	15.11.12						x			Stadler	
x	x	x	x	x	3.1.1	Gauge Analysis	N		AL_1409829-_ Gauge Analysis	--	4.6.12	--	H020 B001	Z	20.6.12 29.6.12	A:20.7.12					x			Stadler	
x	x	x	x	x	3.1.1	Trailer Bogie Gauge Profile	N		BU_1757031-_ Trailer bogie Profile	__001	25.10.11	--	H020 B001	Z	20.6.12 29.6.12	A:20.7.12			x					Stadler	Part of the Gauge Analysis from Version c
x	x	x	x	x	3.1.1	Motor Bogie Gauge Profile	N		BU_1756940-_ Motor bogie Profile	__002	25.10.11	--	H020 B001	Z	20.6.12 29.6.12	A:20.7.12			x					Stadler	Part of the Gauge Analysis from Version c
					3.1.2	3.1.2 Specific case	A										-	-	-	-	-	-	-		not applicable
x	x	x	x	x	3.2	3.2 Vehicle dynamics	A	-									-	-	-	-	-	-	-		
x	x	x	x	x	3.2.1	3.2.1 Running safety and dynamics	A	EN14363													x		x		without "tilting" and "diamond crossings".
x	x				3.2.1	Parameter Comparison with DMU 3-car	N		Bu_1615213-_ Comparison Of The Vehicle Parameters	--	3.6.11	--	H005; B001	R; P	17.4.12; 29.6.12	A:24.5.12					x			Stadler	The relevant parameters are more similar to estonian DMU as to Helsinki
						Type Test Specification Running Behaviour	N		BU_1715696-a TS-640_Running_behaviour	a	10.5.12	--	H013; B001	R; P	25.5.12; 29.6.12	D:25.6.12							x	TÜV Süd	TJA cannot accept this test specification, due to the fact that right now passenger train speed limit is 120 km/h. TJA proposes to postpone this specification approval to end of 2012.
		x	x	x	3.2.1	On track test DMU 3-Car	N					13.5.13											x	TÜV SUD or Prose or Logomotive	Stadler will choose the testing institute; Procedure same as for the Helsinki project used.
		x	x	x	3.2.1	Calculation of safety against derailment DMU	N		Bu_1505792-_ Running Behaviour, Safety Against Derailment	--	25.5.11	--	H005; B001	R; P	17.4.12; 29.6.12	A:24.5.12					x			Stadler	
x	x	x	x	x	3.2.1	Belarus - Test report stability against derailment	N		PS-BTC131-11_Stability		12.09.2011	---	H001; B001	R; P	04.11.11; 29.6.12	A:12.12.11							x		Test Report of the Belarus Project
x	x	x	x	x	3.2.1	Belarus - Test report ride stability	N		PS-BTC124-11_Ride_stability		12.9.11	---	H001; B001	R; P	4.11.11; 29.6.12	A:12.12.11							x		Test Report of the Belarus Project
x	x	x	x	x	3.2.2	3.2.2 Equivalent conicity, wheel profile and limits	A	EN13715									x					x			Use of the EPS-Profil is in Clarification
x	x	x	x	x	3.2.3	3.2.3 Track loading	A	EN14363													x		x		covered by 3.2.1
x	x	x	x	x	3.2.4	3.2.4 Vertical acceleration	A	EN14363													x		x		covered by 3.2.1
x	x	x	x	x	3.3	3.3 Bogies / running gear	A	-									-	-	-	-	-	-	-		-
x	x	x	x	x	3.3.1	3.3.1 Bogies	A	EN13749 (Structural req.) EN15085-1 (Welding)											x		x	x			
x	x				3.3.1	Drawing Motor Bogie EMU	N		BU_1308440-a Drawing Motor Bogie EMU	a	2.11.11	--	H010; B001	R; P	23.5.12; 29.6.12	A:25.6.12			x					Stadler	
		x	x	x	3.3.1	Drawing Motor Bogie DMU	N		BU_1548958-a Drawing Motor Bogie DMU	a	3.11.11	--	H010; B001	R; P	23.5.12; 29.6.12	A:25.6.12			x					Stadler	
x	x	x	x	x	3.3.1	Drawing Trailer Bogie 12.5t	N		BU_1581119-_ Drawing Trailer Bogie 12.5t	--	1.6.11	--	H010; B001	R; P	23.5.12; 29.6.12	A:25.6.12			x					Stadler	
			x	x	3.3.1	Drawing Trailer Bogie DMU 11.5t	N		BU_1568163-_ Drawing Trailer Bogie 11.5t	--	1.6.11	--	H010; B001	R; P	23.5.12; 29.6.12	A:25.6.12			x					Stadler	
x	x	x	x	x	3.3.1	Calculation motor bogie (Helsinki)	N		AL_1244913-_000 Flirt Helsinki Motor Bogie Frame Strength Assessment	--	28.10.10	--	B001; H042	P; R	29.6.12; 6.12.12	A:4.1.13					x			Stadler	
x	x	x	x	x	3.3.1	Calculation trailer bogie (Helsinki)	N		AL_1244903-_000 Flirt Helsinki Trailer Bogie Frame Strength Assessment	--	28.10.10	--	B001; H042	P; R	29.6.12; 6.12.12	A:4.1.13					x			Stadler	
x	x	x	x	x	3.3.1	Test of motor bogie (Helsinki)	N		C038_08_Motor Bogie Frame Flirt Helsinki		29.5.09	--	B001; H042	P; R	29.6.12; 6.12.12	A:4.1.13						x		IMA Dresden	
x	x	x	x	x	3.3.1	Test of trailer bogie (Helsinki)	N		C039_08_Trailer Bogie Frame Flirt Helsinki		30.6.09		B001; H042	P; R	29.6.12; 6.12.12	A:4.1.13						x		IMA Dresden	
x	x	x	x	x	3.3.1	Validation of mechanical strength of the chassis frame	N		AL_1994418-_ Validation of mechanical strength of the chassis frame	-	12.11.12	--	H042; B007	R; P	6.12.12; 13.12.12	A:4.1.13			x	x				Stadler	

Mõõt	Koostas	14.05.2013	Heigo SAARE	Nõuetele kontrollimise tabel		
	Kontrollis					
	Kinnitas					
	Kuupäev est		Nimi			
TRANSPORDITEADUSKOND Raudteetehnika õppetool Õpperühm RA81				Lehti 3	Leht 2	