

Section 1: General Information

0. Identification of the type

0.1 0.2 0.4 Type ID:	51-051-0003-5-002-001
0.3 Date of record:	2020-11-13

1. General Information

1.1 Type name:	Sgns 60 ´
1.2 Alternative type name:	N-210-02

1.3 Manufacturer:

1.3.1 Manufacturer identification data:

1.3.1.1 Name of organisation:	Tatravagonka Poprad AS
1.3.1.2 Registered business number:	31 699 847
1.3.1.3 Organisation code:	

1.3.2 Manufacturer contact data:

1.3.2.1 Address of organisation, street and number:	Štefánikova 887/53
1.3.2.2 Town:	Poprad
1.3.2.3 Country code:	SK
1.3.2.4 Post code:	05801
1.3.2.5 E-mail address:	pavol.semancik@tatravagonka.sk

Registration Method:	New Variant of a registered Type
Registered Vehicle Type:	51-051-0003-5-001-001
1.4 Category:	Freight Wagons
1.5 Subcategory:	Freight wagon
1.6 Platform:	Sgnss

Section 2: Conformity with TSI

2.1 Conformity with TSI and Sections not complied with:

1435mm	WAG (Reg (EU) No 321/2013 amended by Reg (EU) No 1236/2013 amended by Reg (EU) 2015/924 amended by Reg (EU) 2019/776) + clause 7.1.2 + Appendix C totally [GE Wagon]
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2.3 Applicable specific cases (specific cases conformity with which has been assessed)

1435mm	WAG (Reg (EU) No 321/2013 amended by Reg (EU) No 1236/2013 amended by Reg (EU) 2015/924 amended by Reg (EU) 2019/776) + clause 7.1.2 + Appendix C totally [GE Wagon] 7.3.2.1. General specific cases
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2.2 Reference of 'EC type examination certificates'

Reference of 'EC type examination certificates' - if
module SB applied - and/or 'design verification
certificate' - if module SH1 applied

1714/1/SB/2019/RST/DE/3290

Section 3: Authorisations

European Union

3.0 Area Of Use: EU(European Union)

3.1.1 Member state of authorisation: European Union(EU)

3.1.2.1 Status: Valid

3.1.2.2 Validity of Authorisation (until):

3.1.2.3 Coded conditions for use and other
restrictions:

1435mm

1 Technical restriction related to construction

1.1 Minimum curve radius in meters: 75

1.3 Speed restrictions in Km/h: 100 (loaded 22.5)
120 (empty)

2 Geographical restriction

2.1 Kinematic gauge (coding WAG TSI): G1

2.2 Wheelset gauge: 2.2.4 Gauge 1435

2.3 No CCS on board: True

3 Environmental restrictions

3.1 Climatic zone EN 50125-1:2014: 3.1.1 T1

3.1.2.4 Non-coded conditions for use and other
restrictions:

3.1.3.1.1 Date of the original authorisation: 2020-11-11

3.1.3.1.2 Authorisation holder:

3.1.3.1.2.1 Authorisation holder identification data:

3.1.3.1.2.1.1 Name of organisation: Tatravagonka a. s.

3.1.3.1.2.1.2 Registered business number: SK2020514496

3.1.3.1.2.1.3 Organisation code:

3.1.3.1.2.2 Authorisation holder contact data:

3.1.3.1.2.2.1 Address of organisation, street and
number: Komenského 887/53

3.1.3.1.2.2.2 Town: Poprad

3.1.3.1.2.2.3 Country code: SVK

3.1.3.1.2.2.4 Post code: 05801

3.1.3.1.2.2.5 E-mail address: peter.tarajcak@tatravagonka.sk

3.1.3.1.3 Authorisation document reference: EU8020200036

3.1.3.1.4 Certificate of verification : Reference of type examination or design examination type:

1714-1-SB-2019-RST-DE-3290 [C]

3.1.3.1.5 Parameters for which conformity to applicable national rules has been assessed:

1435mm

0.0 None

3.1.3.1.6 Comments:

GE wagon

3.1.3.1.7 Reference to the written declaration by the proposer referred to in Article 3(11) of Regulation (EU) 402/2013:

Not applicable

3.1.3.1 Initial Registration

3.1.2.3 Coded conditions for use and other restrictions:

1435mm

1 Technical restriction related to construction

1.1 Minimum curve radius in meters: 75

1.3 Speed restrictions in Km/h: 100 (loaded 22.5)
120 (empty)

2 Geographical restriction

2.1 Kinematic gauge (coding WAG TSI): G1

2.2 Wheelset gauge: 2.2.4 Gauge 1435

2.3 No CCS on board: True

3 Environmental restrictions

3.1 Climatic zone EN 50125-1:2014: 3.1.1 T1

3.1.2.4 Non-coded conditions for use and other restrictions:

3.1.3.1.1 Date of the original authorisation: 2020-11-11

3.1.3.1.2 Authorisation holder:

3.1.3.1.2.1 Authorisation holder identification data:

3.1.3.1.2.1.1 Name of organisation: Tatravagonka a. s.

3.1.3.1.2.1.2 Registered business number: SK2020514496

3.1.3.1.2.1.3 Organisation code:

3.1.3.1.2.2 Authorisation holder contact data:

3.1.3.1.2.2.1 Address of organisation, street and number: Komenského 887/53

3.1.3.1.2.2.2 Town:	Poprad
3.1.3.1.2.2.3 Country code:	SVK
3.1.3.1.2.2.4 Post code:	05801
3.1.3.1.2.2.5 E-mail address:	peter.tarajcak@tatravagonka.sk
3.1.3.1.3 Authorisation document reference:	EU8020200036
3.1.3.1.4 Certificate of verification : Reference of type examination or design examination type:	1714-1-SB-2019-RST-DE-3290 [C]
3.1.3.1.5 Parameters for which conformity to applicable national rules has been assessed:	1435mm 0.0 None
3.1.3.1.6 Comments:	GE wagon
3.1.3.1.7 Reference to the written declaration by the proposer referred to in Article 3(11) of Regulation (EU) 402/2013:	Not applicable

Section 4: Technical Characteristics

4.1.3 Wheel set gauge RC	1435	mm
4.1.12 Number of vehicles composing the fixed formation (for fixed formation only)	1	
4.1.2 Speed		
4.1.2.1 Maximum design speed	100	km/h
4.2.1 Reference profile RC	G1	
4.3.1 Temperature range	T1 (-25 to +40)	
4.3.3 Snow, ice and hail conditions	Nominal	

4.5.1 Permissible payload for different line categories RC	1435mm	A (46.3)	t		
		B1 (54.3)	t		
		C2 (64.3)	t		
		D2 (72.3)	t		
		B2 (54.3)	t		
		C3 (64.3)	t		
		C4 (64.3)	t		
		D3 (72.3)	t		
		D4 (72.3)	t		
		D5 (72.3)	t		
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4.5.2 Design mass					
4.5.2.1 Design mass in working order RC		17700	kg		
4.5.2.2 Design mass under normal payload RC		72300	kg		
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4.5.3 Static axle load					
4.5.3.1 Static axle load in working order RC		4425	kg		
4.5.3.2 Static axle load under normal payload RC		22500	kg		
4.5.3.4 Position of the axles along the unit (axle spacing) : a: Distance between axles b: Distance from end axle to the end of the nearest coupling plane c: distance between two inside axles RC	1435mm	a: 0014.20 b: 0001.87 c: 0012.40	m		
4.5.5 Total vehicle mass (for each vehicle of the unit) RC	1435mm	90000	kg		
4.5.6 Mass per wheel RC	1435mm	11250	kg		
4.6.4 Combination of maximum speed and maximum cant deficiency for which the vehicle was assessed RC	1435mm	0120.00	km/h	0130.00	mm
4.6.5 Rail inclination RC	1435mm	undetermined			
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4.7.2.1 Brake performance on steep gradients with normal payload					

4.7.2.1.1 Reference case of TSI		Reference case (70 km/h, 21‰ (mm/m), 40 km)			
4.7.2.1.6 Maximum brake thermal energy capacity	1435mm	45		kJ	
4.7.3 Parking brake					
4.7.3.3 Maximum gradient on which the unit is kept immobilized by the parking brake alone (if the vehicle is fitted with it)		2.9		‰ (mm/m)	
4.7.3.4 Parking brake	1435mm	True			
4.7.6 For general operation : Brake weight percentage (lambda) or Braked mass	1435mm			00072.00	tonnes
4.7.7 Service brake: At maximum service brake:	1435mm	0558.00	m	0000.77	m/s ²
Stopping distance, Maximum deceleration, for the load condition 'design mass under normal payload' at the design maximum speed.					
4.7.8 Wheel slide protection system	1435mm	False			
4.8.1 Vehicle length		19.74	m		
4.8.2 Minimum in-service wheel diameter RC		840	mm		
4.8.5 Minimum vertical convex curve radius capability		250	m		
4.8.6 Minimum vertical concave curve radius capability		300	m		
4.9.1 Type of end coupling	Manual				
4.9.2 Axle bearing condition monitoring (hot axles box detection) RC		Detectable by line side			

4.14.1 Type of train detection systems for which the vehicle has been designed and assessed RC

Track circuits

Axle counters