

### **EU TYPE-APPROVAL CERTIFICATE**

Communication concerning:

EC type-approval-(1)

extension of EC type-approval (1) refusal of EC type-approval (1)

withdrawal of EC-type-approval (1)

Of a Type of:

complete vehicle (1) completed vehicle (1)

incomplete vehicle-(1)

vehicle with complete and incomplete variants (1) vehicle with completed and incomplete variants (4)

with regard to Directive 2007/46/EC as last amended by Commission Regulation (EU) No. 2015/166

EC type-approval No: e5\*2007/46\*1193\*03

Reason(s) for extension: To cover;

- 1) Addition of new indirect vision devices
- 2) Addition of new interior materials
- 3) Addition of new electrical / electronic devices
- 4) Addition of new OBD-D Engine
- 5) Addition of new representative drawing
- 6) Addition of optional rear axle load capacity
- 7) Addition of new FDR values
- 8) Correction of manufacturer's engine code for Electric Engine
- 9) Modification of Annex List
- 10) Update of Part II & Part III of information document
- 11) Correction of template of 2007/46 information document
- 12) Change of items 1.8, 1.8.1, 2.4.2.3, 2.6, 2.6.1, 2.8.1, 3.3.1.1.2, 4.6, 9.9.1.2, 9.9.1.3, 9.9.2 of information document
- 13) Update of items 3.2.1.11, 3.2.12.2.7.0.4, 3.2.12.2.7.0.5, 3.2.12.2.7.0.6, 3.2.12.2.7.6.5, 3.2.12.2.7.7, 3.2.12.2.8.1, 3.2.12.2.8.2.1, 3.2.12.2.8.4, 3.2.12.2.8.7, 3.2.12.2.8.8.2, 3.2.12.2.8.6. of information document
- 14) Update of amendment level to (EU) 2015/166

### **SECTION I**

- 0.1. Make (trade name of manufacturer): TEMSA
- 0.2. Type: N
- 0.2.1 Commercial name(s) (2):
  Avenue LF, AVENUE, AVENUE L, AVENUE LE, AVENUE LF CNG, AVENUE CNG L,
  AVENUE LE RHD, AVENUE LF RHD, IBUS, AVENUE IBUS, MEGAPOL, MEGAPOL LE,
  MEGAPOL LF, AVENUE LF12 L, AVENUE LF12, LF12 L, Avenue Plus, Avenue EV,
  Avenue electriCITY, Avenue EVL, Avenue Electron
- 0.3. Means of identification of type, if marked on the vehicle: By vehicle identification number
- 0.3.1. Location of that marking: On statutory plate and on body profiles in the front right wheel space (if applicable)
- 0.4. Category of vehicle (3): M3

PAROVAL A



0.5. Company name and address of manufacturer of the complete/completed vehicle (1)

TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARET A.Ş. Sarıhamzalı Mahallesi Turhan Cemal Beriker Bulvarı, No: 563/A Seyhan / ADANA / TURKEY

- 0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle: Not applicable
- 0.8. Name(s) and address(es) of assembly plant(s):

TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARET A.Ş. Sarıhamzalı Mahallesi Turhan Cemal Beriker Bulvarı, No: 563/A Seyhan / ADANA / TURKEY

0.9. Name and address of the manufacturer's representative (if any):

TEMSA Deutschland GmbH Gottlieb-Daimler-Ring 8 74906 Bad Rappenau, Germany

### SECTION II

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle(s) described above ((a) sample(s) having been selected by the EC type-approval authority and submitted by the manufacturer as prototype(s) of the vehicle type) and that the attached test results are applicable to the vehicle type.

1. For complete and completed vehicles / variants (1):

The vehicle type meets / does not meet (1) the technical requirements of all the relevant regulatory acts as prescribed in Annex IV and Annex XI (1) (4) to Directive 2007/46/EC.

2. For incomplete vehicles / variants (1):

The vehicle type meets / dees-not-meet (1) the technical requirements of the regulatory acts listed in the table on side 2.

- 3. The approval is GRANTED / REFUSED / WITHDRAWN (1)
- 4. The approval is granted in accordance with Article 20 and the validity of the approval is thus limited to dd/mm/yy. Not applicable

Place: Borlänge

Signature:

Staffan Erlandsson

Investigator

Date:

22 JULY 2020

PROVAL A



TSV 2018-

Attachments:

Information package.

Test results (see Annex VIII).

Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company.

NB: If this model is used for type-approval pursuant to Articles 20, 22 or 23, it may not bear the heading, "EC Vehicle Type-Approval Certificate" except:

- in the case mentioned in Article 20 where the Commission has decided to allow a Member State to grant a type-approval in accordance with this Directive.
- In the case of vehicles of the category M1, type-approved according to the procedure prescribed in Article 22.

POROVAL.



### Side 2

This EC type-approval is, where incomplete and completed vehicles, variants or versions are concerned, based on the approval(s) for incomplete vehicles listed below: Not applicable

Stage 1:

Manufacturer of the base vehicle: Not applicable

EC type-approval number:

Dated:

Applicable to variants or versions (as appropriate):

Stage 2:

Manufacturer: Not applicable

EC type-approval number:

Dated:

Applicable to variants or versions (as appropriate):

Stage 3:

Manufacturer: Not applicable

EC type-approval number:

Dated:

Applicable to variants or versions (as appropriate):

In the case where the approval includes one or more incomplete variants or versions (as appropriate), list those variants or versions (as appropriate) which are complete or completed.

Complete variant(s): CEC6, CEEV

List of requirements applicable to the approved incomplete vehicle type, variant or version (as appropriate, taking account of the scope and latest amendment to each of the regulatory acts listed below).

Item	Subject	Regulatory act reference	Last amended	Applicable to variant or, if need be, to version
1	Permissible Sound Levels	51R	02	CXC6, CXEV
3A	Prevention of Fire Risks	34R	02	CXC6
3B	Rear under-run protective devices and installation	58R	03	CXC6, CXEV
4A	Space for mounting and fixing rear registration plates	1003/2010	2015/166	CXC6, CXEV
5A	Steering equipment	79R	03	CXC6, CXEV
7A	Audible warning devices and signals	28R	00	CXC6



### TSV 2018-

		28R	00	CXEV
8A	Devices for indirect vision and their	46R	03	CXC6
	installation	46R	04	CXEV
9A	Braking of vehicle and trailers	13R	11	CXC6
		13R	11	CXEV
10A	Electromagnetic compatibility	10R	05	CXC6
	_	10R	05	CXEV
13A	Protection of motor vehicle against unauthorised use	18R	03	CXC6, CXEV
15A	Seats, their anchorages and any head restraints	17R	08	CXC6, CXEV
17A	Vehicle access and manoeuvrability	130/2012	130/2012	CXC6, CXEV
17B	Speedometer equipment including its installation	39R	01	CXC6, CXEV
18A	Manufacturer's statutory plate and vehicle identification number	19/2011	249/2012	CXC6, CXEV
19A	Safety-belt anchorages, ISOFIX anchorage systems and ISOFIX top tether anchorages	14R	09	CXC6, CXEV
20A	Installation of lighting and light signalling devices on vehicles	48R	04	CXC6, CXEV
27A	Towing device	1005/2010	1005/2010	CXC6, CXEV
31A	Seat-belts	16R	06	CXC6, CXEV
33A	Location and identification of hand controls, tell-tales and indicators	121R	01	CXC6, CXEV
36A	Heating Systems	122R	00	CXC6, CXEV
41A	Emissions (Euro VI) heavy duty vehicles/access to information	595/2009	2018/932D	CXC6
45A	Safety glazing materials and their installation on vehicles.	43R	01	CXC6, CXEV
46A	Installation of tyres	458/2011	2015/166	CXC6, CXEV
47A	Speed Limitation of Vehicles	89R	00	CXC6, CXEV
48A	Masses and dimensions	1230/2012	1230/2012	CXC6, CXEV
51A	Burning behaviour of materials used in the interior construction of	118R	03	CXC6, CXEV

vag@transportstyrelsen.se





TSV 2018-

	motor vehicles			
69	Electric safety	100R	01&02	CXEV

(List only subjects for which an EC type-approval exists)

In the case of special purpose vehicles, exemptions granted or special provisions applied pursuant to Annex XI and exemptions granted pursuant to Article 20: Not applicable

Regulatory act reference	Item Number	Kind of approval and nature of exemption	Applicable to variant or, if need
-	_	-	be, to version

- Delete where not applicable.
- (2) If not available at the time of granting the type-approval, this item shall be completed at the latest when the vehicle is introduced on the market.
- (3) As defined in Annex II.A.
- (4) See side 2.

### **APPENDIX**

List of regulatory-acts to which the type of vehicle complies

(to be filled in only in the case of type-approval in accordance with Article 6(3)).

### Not applicable

Subject-(+)	Regulatory act reference (1)	As amended by	Applicable to verice to
1. Permissible sound level	-	-	Applicable to variants
2. Emissions	-	_	_
3. Fuel tanks/Rear protective devices	-	_	_

(1) In accordance with Annex IV to this directive.



SPROVAL &



### **ANNEX VIII: TEST RESULTS**

(To be completed by the type-approval authority and attached to the vehicle EC type-approval certificate)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result. However, a combination of several results per version indicating the worst case is permissible. In the latter case, a note shall state that for items marked (\*) only worst case results are given.

1. Results of the sound level tests

Number of the base regulatory act and latest amending regulatory act applicable to the approval. In case of a regulatory act with two or more implementation stages, indicate also the implementation stage: See table

Variant / Version:	CEC6, CXC6	CEEV, CXEV
Base regulatory act:	ECE R51	ECE R51
Amending regulatory act:	02 series	02 series
Moving (dB(A) / E):	78	79
Stationary (dB(A) / E):	82.6	NA
at (min <sup>-1</sup> ):	1575	NA

- Results of the exhaust emissions tests
- 2.1. Emissions from motor vehicles tested under the test procedure for light-duty vehicles: Not applicable

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage: See table

Fuel(s) $^{(a)}$ : (diesel, petrol, LPG, NG, Bi-fuel: petrol/NG, LPG, Flex-fuel: petrol/ethanol, NG/H2NG): See table

2.1.1. Type 1 test<sup>(b)(c)</sup> (vehicle emissions in the test cycle after a cold start): Not applicable

Variant / Version:	_	_	Γ
CO (mg/km):	=		
THC (mg/km):	-	_	
NMHC (mg/km):	=		
NOx (mg/km):	_	_	
THC + NOx (mg/km):	_	_	
Mass of particulate matter (PM) (mg/km):			_
Number of particles (P) (#/km) <sup>(1)</sup> :	-	-	-

SPROVA:



2.1.2. Type 2 test<sup>(b)(c)</sup> (emissions data required at type-approval for roadworthiness purposes):

Type 2, low idle test

Variant / Version:	-		-
CO (% vol.):	-	_	-
Engine speed (min -1):	_	-	-
Engine oil temperature (°C):	_	_	-

Type 2, high idle test:

Variant / Version:	_	_	••
CO (% vol.):	•	_	
Lambda value:	-		
Engine speed (min -1):	-	_	
Engine oil temperature			
(°C):	-	_	_

- 2.1.3. Type 3 test (emissions of crankcase gases): Not applicable
- 2.1.4. Type 4 test (evaporative emissions): Not applicable
- 2.1.5. Type 5 test (durability of anti-pollution control devices): Not applicable

Ageing distance covered (km) (e.g. 160 000 km): Not applicable

Deterioration factor DF: calculated/fixed(2)

Value: Not applicable

Variant / Version:	-	_	
CO:	•		
THC:		_	
NMHC:	-	_	<u> </u>
NOx:	_	_	
THC + NOx:	-		<u> </u>
Mass of particulate matter (PM):	_	_	
Number of particles (P) (1):	<del>-</del>	_	

2.1.6. Type 6 test (average emissions at low ambient temperatures): Not applicable

Variant / Version:	_		_
CO g/km:	-	-	_
THC g/km:	_	-	•

2.1.7. OBD: yes/no<sup>(2)</sup> Not applicable



### 2.2 Emissions from engines tested under the test procedure for heavy-duty vehicles

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage: Implementation stage is D

Fuel(s) (a) (diesel, petrol, LPG, NG, ethanol...): See table

Variant / Version:	CXC6/CEC6	CXEV/CEEV
	595/2009	
	amended by	
Amending regulatory act:	2018/932D	-
Fuel(s):	Diesel	-

### 2.2.1 Results of the ESC test<sup>(1)(e)(f)</sup>

For variant: CXC6/CEC6

					-	
		WH	SC test (if appl	icable)		
DF	CO	THC	NO <sub>x</sub>	PM Mass	NH <sub>3</sub>	PM Number
Mult (1)	1.3	1.3	1.15	1.05	1	1
Emissions	CO (mg/kWh)	THC (mg/kWh)	NO <sub>x</sub> (mg/kWh)	PM Mass (mg/kWh)	NH₃ (ppm)	PM Number (#/kWh)
Test result	18.00	44.00	54.00	2.90	0.28	3.822x10 <sup>11</sup>
Calculated with DF	23.40	57.20	62.10	3.05	0.28	3.822x10 <sup>11</sup>

CO<sub>2</sub> emissions mass emission: 657 g/kWh

Fuel consumption: 207.13 g/kWh

For variants CXEV, CEEV: Not applicable

### 2.2.2 Result of the ELR test<sup>(1)</sup> Not applicable

Variant / Version:	_	<b>-</b>	
Smoke value (m <sup>-1</sup> ):	-	-	•



WPROVAL &



### 2.2.3. Result of

Result of the ETC test(e)(f)

For variant: CXC6/CEC6 (OBD-D)

				WHTC tes	st			
DF Mult	со	THC	NMHC	CH₄	NOx	PM Mass	NH₃	PM Number
	1.3	1.3	NA	NA	1.15	1.05	1	. 1
Emission s	CO (mg/kWh)	THC (mg/kWh )	NMHC (mg/kW h)	CH₄ (mg/kW h)	NO <sub>x</sub> (mg/kW h)	PM Mass (mg/kWh )	NH₃ (ppm)	PM Number (#/kWh)
Cold start	106.20	7.30	NA	NA	815.00	3.22	0.40	1.16E+12
Hot start w/o regenera tion	26.10	0.80	NA	NA	202.00	4.17	0.50	9.19E+10
Hot start with regenera tion (1)	NA	NA	NA	NA	NA	NA	NA	NA
k <sub>r,u</sub> (add)	1.51	3.51	NA	NA	23.95	0.55	NA	1.57E+09
Weighte d test result	38.98	5.23	NA	NA	312.98	4.58	0.49	2.45E+11
Final test result with DF	50.68	6.81	NA	NA	359.93	4.81	0.49	2.45E+11

CO<sub>2</sub> emissions mass emission: 685.55 g/kWh

Fuel consumption: 216.47 g/kWh

## 2.2.4. Idle test<sup>(1)</sup> Not applicable

Variant / Version:	_	_	-
CO (% vol.):	-	_	-
Lambda value <sup>(1)</sup> :	-	-	-
Engine speed (min <sup>-1</sup> ):	-	-	_
Engine oil temperature			
(rx).			





2.3. Diesel smoke: Not applicable

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:

2.3.1. Results of the test under free acceleration

Variant / Version:	_	-	•
Corrected value of the absorption coefficient (m <sup>-1</sup> ):	_	_	_
Normal engine idling speed:		-	**
Maximum engine speed:		•	-
Oil temperature (min / max)	-	-	_

3. Results of the CO<sub>2</sub> emission, fuel/electric energy consumption, and electric range tests: Not applicable

Number of the base regulatory act and the latest amending regulatory act applicable to the approval: Not applicable

3.1. Internal combustion engines, including not externally chargeable hybrid electric vehicles (NOVC) (1)(d) Not applicable

Variant / Version:	-	-	-
CO₂ mass emission (urban conditions (g/km):		-	-
CO <sub>2</sub> mass emission (extra- urban conditions (g/km):	-		_
CO₂ mass emission (combined) (g/km):	E .	_	-
Fuel consumption (urban conditions) (I/100 km) <sup>(9)</sup> :		-	-
Fuel consumption (extra-urban conditions) (I/100 km) <sup>(g)</sup> :	•	-	-
Fuel consumption (combined) (I/100 km) (g):	_	-	-

OFRDVAL



# 3.2. Externally chargeable hybrid electric vehicles (OVC) (1) Not applicable

Variant / Version:	186	-	-
CO <sub>2</sub> mass emission (Condition A, combined) (g/km):	_	-	-
CO <sub>2</sub> mass emission (Condition B, combined) (g/km):	_	-	-
CO <sub>2</sub> mass emission (weighted, combined) (g/km):	-	_	_
Fuel consumption (Condition A, combined) (I/100 km) (9):	_	_	-
Fuel consumption (Condition B, combined) (I/100 km) (9):	_	-	-
Fuel consumption (weighted, combined) (I/100 km) <sup>(g)</sup> :	<u>-</u>	_	-
Electric energy consumption (Condition A, combined) (Wh/km):	-	-	ı
Electric energy consumption (Condition B, combined) (Wh/km):	_	-	-
Electric energy consumption (weighted and combined) (Wh/km):	-	-	-
Pure electric range (km):		-	-

## 3.3. Pure electric vehicles<sup>(1)</sup> Not applicable

Variant / Version:	-	_	_
Electric energy			
consumption (Wh/km):	<u> </u>	-	_
Range (km):	•	_	-

## 3.4. Hydrogen fuel cell vehicles<sup>(1)</sup> Not applicable

Variant / Version:	-	-	_
Fuel consumption (kg/100			
km):	-	_	-

QVOR94



4. Results of the tests for vehicles fitted with eco-innovation(s)<sup>(h1)(h2)(h3)</sup>
Not applicable

approving	Code of the eco- innovation <sup>(h5)</sup>	emissions of the baseline vehicle	emissions of the eco- innovation vehicle	emissions of the baseline vehicle under type 1	of the eco- innovation vehicle under type 1 test-cycle (= 3.5.1.3)	i.e. temporal share of technology usage in	CO <sub>2</sub> emissions savings ((1 – 2) – (3 – 4))*5
xxxx/201x			•••			• • •	
			•••		• • •		
		-,.	• • •			* * *	

4.1. General code of the eco-innovation(s)<sup>(h8)</sup> Not applicable

LANCONT



TSV 2018-

## **Explanatory notes**

(1)	If applicable.
(2)	Delete where not applicable.
(a)	When restrictions for the fuel are applicable, indicate these restrictions (e.g. for natural gas the L range or the H range).
(b)	For bi fuel vehicles, the table shall be repeated for both fuels.
(c)	For flex fuel vehicles, when the test is to be performed on both fuels, according to Figure 1.2.4 of Annex I to Regulation (EC) No 692/2008, and for vehicles running on LPG or NG/Biomethane, either bi-fuel or mono-fuel, the table shall be repeated for the different reference gases used in the test, and an additional table shall display the worst results obtained. When applicable, in accordance with sections 1.1.2.4 and 1.1.2.5 of Annex I to Regulation (EC) No 692/2008, it shall be shown if the results are measured or calculated.
(d)	Repeat the table for each reference fuel tested.
(e)	For Euro VI, ESC shall be understood as WHSC and ETC as WHTC.
(f)	For Euro VI, if CNG and LPG fuelled engines are tested on different reference fuels, the table shall be reproduced for each reference fuel tested.
(9)	The unit "I/100 km" is replaced by "m3/100 km" for vehicles fuelled with NG and H2NG, and by "kg/100 km" for vehicles fuelled with hydrogen.
(h)	Eco-innovations.
(h1)	Repeat the table for each variant/version.
(h2)	Repeat the table for each reference fuel tested.
(h3)	Expand the table if necessary, using one extra row per eco-innovation.
(h4)	Number of the Commission Decision approving the eco-innovation.
(h5)	Assigned in the Commission Decision approving the eco-innovation.
(h6)	If a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.
(h7)	Sum of the CO <sub>2</sub> emissions savings of each individual eco-innovation.
(h8)	<ul> <li>(The general code of the eco-innovation(s) shall consist of the following elements each separated by a blank space:</li> <li>Code of the approval authority as defined in Annex VII,</li> <li>Individual code of each eco-innovation fitted in the vehicle, indicated in chronological order of the Commission approval decisions.</li> <li>E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted to a vehicle certified by the German type approval authority should be: "e1 10 15 16".)</li> </ul>

TOPROVAL D



Whole Vehicle Type Approval

Extension Date

**Original Date** 

25.03.2019

Information Document

Extension Number

10.07.2020

03

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

According to: 2007/46/EC\*2015/166 EU Annex III

Document Number

2007/46\_N004

Extension to the EC type approval no: e5\*2007/46\*1193\*02





TENSA

TYPE	Original Date	25.03.2019	
Whole Vehicle Type Approval	Extension Date	10.07.2020	
Information Document	Extension Number	03	
According to: 2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004	

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

### **Extension Summary**

Paragraphs that are changed in the documentation: (changes are fonted in red)

### Reason for extension: To cover:

- 1) Addition of new indirect vision devices
- 2) Addition of new interior materials
- 3) Addition of new electrical / electronic devices
- 4) Addition of new OBD-D Engine
- 5) Addition of new representative drawing
- 6) Addition of optional rear axle load capacity
- 7) Addition of new FDR values
- 8) Correction of manufacturer's engine code for Electric Engine
- 9) Modification of Annex List
- 10) Update of Part II & Part III of information document
- 11) Correction of template of 2007/46 information document
- 12) Change of items 1.8, 1.8.1, 2.4.2.3, 2.6, 2.6.1, 2.8.1, 3.3.1.1.2, 4.6, 9.9.1.2, 9.9.1.3, 9.9.2 of information document
- 13) Update of items 3.2.1.11, 3.2.12.2.7.0.4, 3.2.12.2.7.0.5, 3.2.12.2.7.0.6, 3.2.12.2.7.6.5, 3.2.12.2.7.7, 3.2.12.2.8.1, 3.2.12.2.8.2, 3.2.12.2.8.4, 3.2.12.2.8.7, 3.2.12.2.8.8.2, 3.2.12.2.8.6.
- 14) Update of amendment evel to (EU) 2015/166

	Type - Variant - Version: List of Vehicles
PART	Type - Variant - Version: Coding Table
PART III	List of System Type Approvals



	TYPE	Original Date	25.03.2019
TEMSA	Whole Vehicle Type Approval	Extension Date	10.07.2020
Temsa Ulaşım Araçları San.	Information Document	ament Extension Number	
ve Tic. A.Ş.	According to:	Document Number	2007/46_N004
	2007/46/EC*2015/166 EU Annex III		

### **List of Annexes:**

No	Annex Code	Document Name
1	1.2. Sketch 1	Representative Drawing of Avenue LF
2	1.2. Sketch 2	Representative Drawing of Avenue LF RHD
3	1.2. Sketch 3	Representative Drawing of Avenue LF CNG
4	1,2, Sketch 4	Representative Drawing of Avenue LF with 2 double doors
5	1.2. Sketch 5	Representative Drawing of Avenue LF HYBRID
6	1.1.AA 1.1.AB	Representative Drawing of Avenue EV
<del>-7</del> -8	1.1.AB	Representative Drawing of Avenue EV (New)  Representative Drawing of Avenue Electron
9	1.1.AD	Representative Drawing of Avenue Electron (New)
10	4.1.F	Summation Gearbox
11	Annex 2	Load Distribution table
12	CA_501	Front Axle Drawing
13	CA_901	Statutory plate
14	CA_902	VIN Coding System
15	CA_N903	VIN Number Location - Avenue
16	CA_N904	Location of Statutory Plate - Avenue
17	6.1 Sketch 7	Front Axle Suspension Arrangement
18	6.1 Sketch 8	Rear Axle Suspension Arrangement (ELECTRICITY)
19	6.1 Sketch 9	Rear Axle Suspension Arrangement
20	6.1 Sketch 10	Rear Axle Suspension Arrangement
21	6.1 Sketch 11	Rear Axle Suspension Arrangement
22	6.1 Sketch 12	Rear Axle Suspension Arrangement
23	6.1 Sketch 13	Rear Axle Suspension Arrangement
24	NK119012	Chassis Drawing - Avenue LF CNG
25	NK119018	Chassis Drawing - Avenue LF
26	1.4 Sketch 5	Chassis Drawing - Avenue EV
27	1.4 Sketch 6	Chassis Drawing – Avenue Electron
28	1.4 Sketch 7	Chassis Drawing - Avenue Electron (Revar)
29	NK144008	Roof Exhaust Cover Assembly
30	Annex 9	Cummins OBD D Engine Approval (e5*595/2009*2018/932D*0018*00)
31	Annex 0	COC Signatures
32	Annex 0.1	Certificate of Conformity Sample
33	Annex TM	TM4 Declaration





TYPE	Original Date	25.03.2019
Whole Vehicle Type Approval	Extension Date	10.07.2020
Information Document	Extension Number	03
According to: 2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

### PART I A. FOR CATEGORIES M

### 0. GENERAL

0.5.

Make (trade name of manufacturer) **TEMSA** 0.1.

Ν 0.2. Type

Commercial name(s) (if available) 0.2.1.

Avenue LF, AVENUE, AVENUE L, AVENUE LE, AVENUE LF CNG, AVENUE CNG L, AVENUE LE RHD, AVENUE LF RHD, IBUS, AVENUE IBUS, MEGAPOL, MEGAPOL LE, MEGAPOL LF, AVENUE LF12 L, AVENUE LF12, LF12 L, Avenue Plus, Avenue EV,

Avenue electriCITY, Avenue EVL, Avenue Electron

For multi-stage approved vehicles, type-approval information of the base/previous stage 0.2.2.

vehicle (list the information for each stage. This can be done with a matrix):

Not applicable Type:

Not applicable Variants: Not applicable

Version(s): Not applicable Type-approval number, including

extension number:

By vehicle identification number Means of identification of type, if marked 0.3. on the vehicle (b)

On statutory plate and on body profiles in Location of that marking:

the front right wheel space (if applicable) 0.3.1.

**M3** Category of vehicle (c) 0.4.

Classification(s) the N/A according 0.4.1. dangerous goods which the vehicle is

intended to transport:

TEMSA ULAŞIM ARAÇLARI SANAYİ VE Company name and address of

TİCARET A.Ş. manufacturer: Sarıhamzalı Mahallesi Turhan Cemal Beriker

Bulvarı.

No. 563/A Seyhan / ADANA / TURKEY

Not Applicable For multi-stage approved vehicles, 0.5.1.

company name and address of the

manufacturer of the base/previous stage(s) vehicle



	TYPE Original Date  Whole Vehicle Type Approval Extension Date		25.03.2019
THE IVE IN A	Whole Vehicle Type Approval	Extension Date	10.07.2020
Temsa Ulaşım Araçları San.	Information Document	Extension Number	03
ve Tic. A.Ş.	According to: 2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004

0.8.

Name and address(es) of assembly

plant(s)

TEMSA ULAŞIM ARAÇLARI SANAYİ VE

TİCARET A.Ş.

Sarıhamzalı Mahallesi Turhan Cemal Beriker

Bulvarı,

No: 563/A Seyhan / ADANA / TURKEY

0.9.

Name and address of the manufacturer's

representative (if any)

TEMSA Deutschland GmbH

Gottlieb-Daimler-Ring 8

74906 Bad Rappenau, Germany

### 1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

1.1. Photographs and/or drawings of a representative vehicle

 VEHICLE
 See Annex

 Avenue LF
 1.2

 Avenue EV
 1.1.AA, 1.1.AB

 Avenue Electron
 1.1.AC, 1.1.AD

1.3.

Number of axles and wheels

: Axles:2, Wheels:6

1.3.1.

Number and position of axles with twin

wheels

One, at the rear.

1.3.2.

Number and position of steered axles

One, at the front.

1.3.3.

Powered axles (number, position,

interconnection)

One powered axle at the rear, interconnected through gearbox, propeller shaft and rear axle

1.4. Chassis (if any) (overall drawing)

Chassis Type:	Annex No :
Avenue LF	NK119018
Avenue LF CNG	NK119012
Avenue EV	1.4 Sketch 5
Avenue Electron	1.4 Sketch 6 & 7

1.6.

Position and arrangement of the engine

Electric engine is located near rear axle, on

The motor vehicle is not intended to tow semi-

the driver's side, arranged horizontally.

1.8.

Hand of drive

Left

1.8.1.

Vehicle is equipped to be driven in

right/left (1) hand traffic

Right hand traffic

1.9.

Specify if the towing vehicle is intended to tow semi-trailers or other trailers and, if the trailer is a semi-, drawbar-, centre-

: trailers or other trailers.

1.9

axle- or rigid drawbar trailer

: Not applicable

1.10 Specify if the vehicle is specially designed for the controlled-temperature

carriage of goods:





T.	TYPE	Original Date	25.03.2019
	Whole Vehicle Type Approval	Extension Date	10.07.2020
	Information Document	Extension Number	03
	According to:	Document Number	2007/46 N004
	2007/46/EC*2015/166 EU Annex III	Document Number	2007/40_13004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

2. MASSES AND DIMENSIONS (1)(g)(7) (in kg and mm) (Refer to drawing where applicable)

2.1. Wheelbase(s) (fully loaded) (g1)

2.1.1. Two axle vehicles : 5805 mm

2.1.2. Vehicles with three or more axles : N/A

2.1.2.1. Axle spacing between consecutive axles : N/A going from the foremost to the rearmost

axle

2.1.2.2. Total axle spacing : N/A

2.3.1. Track of each steered axle (g4) : 2140 - 2161 mm

2.3.2. Track of all other axles (g4) : Min: 1820 mm, Max: 1837 mm (optional

aluminium rim)

2.4. Range of vehicle dimensions (overall)

2.4.1. For chassis without bodywork

2.4.1.1. Length (g5) : N/A

2.4.1.1.1. Maximum permissible length : N/A

2.4.1.1.2. Minimum permissible length : N/A

2.4.1.2. Width <sup>(97)</sup> : N/A

2.4.1.2.1. Maximum permissible width : N/A

2.4.1.2.2. Minimum permissible width : N/A

2.4.1.3. Height (in running order) (g8) (for : N/A

suspensions adjustable for height, indicate normal running position)

2.4.2. For chassis with bodywork

2.4.2.1. Length (95) : 12000 mm

12028 - 12095 mm for Avenue Electron

2.4.2.1.1. Length of the loading area : N/A

F V TRANS EST S LA TRANSESE S LA TRANS



### **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 **Information Document Extension Number** 03 According to: **Document Number** 2007/46\_N004 2007/46/EC\*2015/166 EU Annex III

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

2.4.2.2.

Width (97)

2550 mm

2.4.2.2.1.

Thickness of the walls (in the case of vehicles designed for controlled-

N/A

temperature transport of goods)

2.4.2.3.

Height (in running order) (98) (for suspensions adjustable for height, indicate normal running position):

Vehicle	Options	Height
Avenue LF	2-doors	3267 mm
Avenue LF	3-doors	3200 mm
Avenue LF	with different exhaust outlet height	3305 mm
Avenue EV	3-doors	3604 mm
Avenue Electron	- 3-doors	3176 – <b>3237</b> mm

2.5.

Minimum mass on the steering axle(s) for : See item 2.6.1

incomplete vehicles:

2.6.

Mass in running order (h)

- (a) minimum and maximum for each variant:
- (b) mass of each version (a matrix must be provided):

	Incomplete vehicle	Complete vehicle	Avenue EV	Avenue EV (OPTRAC Engine)	Avenue Electron
Min (kg)	8700	10520	12250	12600	12140
<u>Max.</u> (kg)	11650	11900	14000	13350	13550

- 2.6.1 Distribution of this mass among the axles and, in the case of a semi-trailer a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling:
  - (a) minimum and maximum for each variant:
  - (b) mass of each version (a matrix must be provided):

	Incomplete Vehicle			
	Min. (kg) Max. (kg)			
Front axle	2180	2920		
Rear axle	6520	8730		





### **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 **Information Document Extension Number** 03 According to: **Document Number** 2007/46 N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

	Complete Vehicles		Avenue EV		Avenue EV (OPTRAC ENGINE)		Avenue Electron	
	Min. (kg)	Max. (kg)	Min. (kg)	Max. (kg)	Min. (kg)	Max. (kg)	Min. (kg)	Max. (kg)
Front								
Axle	3340	3900	4470	5105	4160	4400	4500	4900
Rear						:		
Axle	7180	8000	7780	8895	8440	8950	7640	8650

2007/46/EC\*2015/166 EU Annex III

2.6.2 Mass of the optional equipment (as

defined in point (5) of Article 2 of Regulation (EU) No 1230/2012:

: Electrical battery: 1350 - 3500 kg

Minimum mass of the completed vehicle

as stated by the manufacturer, in the case :

of an incomplete vehicle:

See Item 2.6.1

2.8. Technically permissible maximum laden

mass stated by the manufacturer (i)(3)

<u>Vehicle</u>	Max. Laden Mass (kg)	
ALL	18000	
Optional	19145	

2.8.1. Distribution of this mass among the axles and, in the case of a semi-trailer or centreaxle trailer, load on the coupling point (3)

Front Axle	Rear Axle
(kg)	(kg)
	11500
7245	11900
	12000

2.9. Technically permissible maximum mass on

each axle

See item 2.8.1

N/A

2.7.

2.10.

2.11.

Technically permissible mass on each

group of axles:

Technically permissible maximum towable :

mass of the towing vehicle in case of

2.11.1. Drawbar trailer N/A

2.11.2. Semi-trailer N/A

2.11.3. Centre-axle trailer N/A

2.11.4 Rigid drawbar trailer: : N/A





# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to: 2007/46/EC\*2015/166 EU Annex HI Document Number 2007/46\_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

2.11.5.

2.12.1.

Technically permissible maximum laden

: N/A

mass of the combination (3)

2.11.6. Maximum mass of unbraked trailer

N/A

2.12. Technically permissible maximummass at

N/A

the coupling point

Of a towing vehicle:

N/A

of a semi-trailer, a centre-axle trailer or a

2.12.2. rigid drawbar trailer:

N/A

2.16. Registration/in service maximum

permissible masses (optional)

:

2.16.1. Registration/in service

permissible laden mass:

maximum :

	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7	Option 8	Option 9	Option 10	Option 11
Front Axle(kg)	6500	6500	6500	7245	7000	7100	7245	7245	7100	7100	7100
Rear Axle(kg)	11500	12000	12000	13000	12000	12300	11500	11900	12000	12300	12600
Total (kg)	18000	18000	18500	19145	19000	19000	18000	19000	19000	19000	19145

2.16.2. Registration/in service maximum

permissible mass on each axle and, in the case of a semi-trailer or centre-axle trailer, intended load on the coupling point stated by the manufacturer if lower than the technically permissible maximum mass on the coupling point

: Refer to 2.16.1

2.16.3.

Registration/in service maximum

permissible mass on each group of axles

N/A

2.16.4.

Registration/in service maximum

permissible towable mass

; N/A

2.16.5.

Registration/in service maximum

permissible mass of the combination

: N/A

2.17.

Vehicle submitted to multi-stage type-

approval (only in the case of incomplete or

No





# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to: 2007/46/EC\*2015/166 EU Annex III Document Number 2007/46\_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

completed vehicles of category N1 within the scope of Regulation (EC) No

715/2007:

2.17.1

Mass of the base vehicle in running order

N/A

2.17.2

Default added mass (DAM), calculated in

N/A

accordance with Section 5 of Annex XII to Regulation (EC) No 692/2008:

### 3. POWER PLANT(k)

3.1.

Manufacturer of the engine

Vehicle	Manufacturer	
Avenue LF	Cummins Engine Company	
Avenue FV	Prestolite TM4 e-Propulsion	
LV	Aselsan	
Avenue Electron	Prestolite TM4 e-Propulsion	

3.1.1. Manufacturer's engine code (as marked on the engine or other means of identification)

VEHICLE	MAKE	ENGINE CODE
Avenue	Cummins	B6.7E6D280B / DC07 101
LF	Cummins	B6.7E6D300B
Avenue EV	Prestolite	DDM155A(LSM2 80 <b>A</b> -HV2700-A1)
	Aselsan	MG-9090-001 DCBRLS
Avenue Electron	Prestolite	DDM155A(LSM2 80 <b>A-</b> HV2700-A1)

3.1.2.

Approval number (if appropriate) including :

fuel identification marking

(heavy-duty vehicles only)

MAKE	ENGINE CODE	TYPE APPROVAL NO
Cummins –	B6.7E6D280B	. F*F0F/0000*00.40/000P*00.40*00
Cummins	B6.7E6D300B	e5*595/2009*2018/932D*0018*00

O LA TRANSPORT LA STYRE SER



# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to: 2007/46/EC\*2015/166 EU Annex III

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

3.2. Internal combustion engine

3.2.1.1.

Working principle

Manufactur er	Engine Code	Ignition	Stroke
Cummins	B6.7E6D 280B	Compression	Four
Cummins	B6.7E6D3 00B	Compression	Four

DDM155A(LSM280A-HV2700-A1): N/A ASELSAN OPTRAC-625 and HVSM-287:N/A

3.2.1.1.1

Type of dual-fuel engine:

N/A

3.2.1.1.2.

Gas Energy Ratio over the hot part of the WHTC test-cycle

: N/A

3.2.1.2.

Number and arrangement of cylinders

: 6 cylinders in line

3.2,1.3.

Engine capacity (m)

Manufacturer	Engine Code	Engine Capacity(cm³)
Cummins	B6.7E6D280B B6.7E6D300B	6700

3.2.1.6.

Normal engine idling speed (2)

Manufacturer	Engine Code	Normal engine idling speed (min-1)
Cummins	B6.7E6D280B B6.7E6D300B	600-800

3.2.1.6.2.

Idle in diesel (1) (x1)

: Yes

3.2.1.8.

Maximum net power (n):

Manufacturer	Engine Code	Net Power (kW at min -1)
Cummins	B6.7ED280B	204 kW at 2100 min <sup>-1</sup>
Cummins	B6.7E6D300B	220 kW at 2100 min <sup>-1</sup>

3.2.1.11.

(Euro VI only) Manufacturer references of the Documentation package required by Articles 5, 7 and 9 of Regulation (EU) No 582/2011 Refer to approval;

e5\*595/2009\*2018/932D\*0018\*00





Temsa Ulaşım Araçları San. ve Tic. A.Ş.

### 25.03.2019 **Original Date** 10.07.2020 **Extension Date** Whole Vehicle Type Approval 03 **Extension Number Information Document** According to: **Document Number** 2007/46\_N004

enabling the approval authority to evaluate the emission control strategies and the systems on-board the engine to ensure the correct operation of NOx control measures

Light-duty vehicles:

3.2.2.1.

N/A

2007/46/EC\*2015/166 EU Annex III

Heavy duty vehicles 3.2.2.2. Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/Ethanol

(E85)/LNG/LNG<sub>20</sub> (1)(6)

Fuel Type Engine Code Manufacturer Diesel Cummins B6.7E6D280B B6.7E6D300B

(Euro VI only) Fuels compatible with : use by the engine declared by the 3.2.2.2.1. manufacturer in accordance with Section 1.1.3 of Annex I to Regulation (EU) No 582/2011 (as applicable)

B20 (Diesel with up to %20 FAME),

Vehicle fuel type: 3.2.2.4.

Mono fuel

biofuel Maximum amount 3.2.2.5. acceptable in fuel (manufacturer's declared value)

Manufacturer	Engine Code	Amount of Biofuel
Cummins	B6.7E6D280B B6.7E6D300B	0%

3.2.3. Fuel tank(s)

3.2.3.1.

Service fuel tank(s)

3.2.3.1.1.

Number and capacity of each tank

Vehicle	Unit Capacity (It)	Quantity	Total Capacity (lt)
Avenue LF Diesel	285±2	1	285±2

3.2.3.2.

Reserve fuel tank(s)

N/A

3.2.3.2.1.

Number and capacity of each tank:

N/A

3.2.4.

Fuel feed

3.2.4.1.

By carburettor(s):

: No



	TYPE	Original Date	25.03.2019
TEMSA	Whole Vehicle Type Approval	Extension Date	10.07.2020
	Information Document	Extension Number	03
Temsa Ulaşım Araçları San ve Tic. A.S.	According to:	Document Number	2007/46_N004

	ve Tic. /	A.Ş.		According to:		Docu	ıment Number	2007/46_N004	
			2007/46/EC*2015/166	EU A	nnex III				_
3.	2.4.2.	By fuel injectignition or du	tion (compression	•	Manufactur	rer	Engine Code	By Fuel Injection (Compression Ignition only)	
					Cummins		B6.7E6D280B B6.7E6D300B	Yes	
,	.2.4.2.2.	Working prin	nciple:	:	Manufactu	rer	Engine Code	Working Principle	
3   	.2.4.2.2.				Cummins	s	B6.7E6D280B B6.7E6D300B	Direct Injection	
3	3.2.4.3.	By fuel injectionly):	ction (positive ignition	:	Manufactu	irer	Engine Code	By fuel injection (positive ignition only)	
					Cummin	ıs .	B6.7E6D280B B6.7E6D300B	N/A	
	3.2.7	Cooling sys		:	Liquid				
	3.2.8	Intake sys	tem	•					
	3.2.8.1	Pressure c	harger:	:	Manufact	urer	Engine Code	Pressure Charger	
					Cummir	ns	B6.7E6D280B B6.7E6D300B	Yes	
	3.2.8.2.	Intercooler	<del>:</del>	:	Yes				
	3.2.8.3.3	(Euro VI o	nly) Actual Intake system n at rated engine speed	:	Manufact	turer	Engine Code	Intake depression	
		and at 100	) % load on the vehicle		Cummi	ins	B6.7E6D280B B6.7E6D300B	<b>I</b>	
	3.2.9	Exhaust	system	:					

(Euro VI only) Description and/or

exhaust system that are not part of

drawing of the elements of the

the engine system

3.2.9.2.1

: EGR, VGT, DOC, DPF, SCR, Exhaust Valve, Crosshead, Rocker Lever, Pushrod,

space (

Camshaft, Manifold, Turbocharger

(B6.7E6D280B, **B6.7E6D300B**)

	TYPE	Original Date	25.03.2019
TEMSA	Whole Vehicle Type Approval	Extension Date	10.07.2020
Temsa Ulaşım Araçları San.	Information Document	Extension Number	03
ve Tic. A.Ş.	According to: 2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004

3.2.9.3.1	(Euro VI only) Actual exhaust back pressure at rated engine speed and	:	Manufacturer	Engine Code
	at 100 % load on the vehicle (compression-ignition engines only)		Cummins	B6.7E6D280B B6.7E6D300B

3.2.9.4	Type, marking of exhaust silencer(s)	:	Manufacturer	Engine Code	Type & Marking
			Cummins	B6.7E6D280B B6.7E6D300B	A040M890

Where relevant for exterior noise, reducing measures in the engine compartment and on the engine

**Engine Shields** 

3.2.9.5	Location of the exhaust outlet	:	Manufacturer	Engine Code	By Fuel Injection (Compression
			Cummins	B6.7E6D280B	On the rear part of the floor (under the vehicle), to the back side of the vehicle
				B6.7E6D300B	On the roof to the back side of the vehicle(optional)

3.2.9.7.1 (Euro VI only) Acceptable Exhaust system volume

(OBD D Diesel Engines Only) Acceptable Exhaust

Max. exhaust back pressure 40 kPa (After regeneration 60 kPa max. allowable)

System Volume: Min: 102,7 dm<sup>3</sup> Max: 125,2 dm3

3.2.12 Measures taken against air pollution

(Euro VI only) Device for recycling crankcase gases:

If yes, description and drawings: If no, compliance with Annex V to Regulation (EU) No 582/2011

required

3.2.12.1.1.

Refer to approval;

e5\*595/2009\*2018/932D\*0018\*00

3.2,12,2 Additional pollution control devices (if

any, and if not covered by another

heading)





# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to: 2007/46/EC\*2015/166 EU Annex III Document Number 2007/46\_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

3.2.12.2.1 Catalytic converter

: See Engine Type Approvals e5\*595/2009\*2018/932D\*0018\*00

3.2.12.2.1.11. Regeneration systems/method of exhaust after treatment and

exhaust after-treatment systems, description

: Diesel: In cylinder, post injection only

3.2.12.2.1.11.6 Consumable reagents:

 Manufacturer
 Engine Code
 Consumable Reagents

 B6.7E6D280B
 Yes

 Cummins
 B6.7E6D300B

3.2.12.2.1.11.7 Type and concentration of reagent needed for catalytic action

ManufacturerEngine CodeConcentration of ReagentsCumminsB6.7E6D280B B6.7E6D300BUrea Solution 32,5% by weight in water

3.2.12.2.2. Oxygen sensor:

 Manufacturer
 Engine Code sensor
 Oxygen sensor

 Cummins
 B6.7E6D280B B6.7E6D300B

3.2.12.2.3

Air injection:

: No

3.2.12.2.4

Exhaust gas recirculation:

Manufacturer Engine Code Exhaust
Gas
Recirculati
on

Cummins B6.7E6D280B
B6.7E6D300B
Yes

3.2.12.2.5

Evaporative emissions control system (petrol and ethanol engines only):

No

3.2.12,2.6.

Particulate trap:

 Manufacturer
 Engine Code
 Particulate Trap

 Cummins
 B6.7E6D280B B6.7E6D300B
 Yes

3.2.12.2.6.9.

Other systems:

: No

3.2.12.2.6.9.1

Description and operation

: N/A

3.2.12.2.7.

On-board-diagnostic (OBD) system:

Yes

3.2.12.2.7.0.1

(Euro VI only) Number of OBD

: One



# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to:

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

engine families within the engine family

3.2.12.2.7.0.2

(Euro VI only) List of the OBD engine

2007/46/EC\*2015/166 EU Annex III

families (when applicable)

Manufacturer	Engine Family	
Cummins	ESR348077	Diesel

**Document Number** 

2007/46\_N004

3.2.12.2.7.0,3

(Euro VI only) Number of the OBD

engine family the parent engine / the

engine member belongs to

Manufacturer	Engine Family
Cummins	B6.7

3.2.12.2.7.0.4

(Euro VI only) Manufacturer

references of the OBD-

Documentation required by Article 5(4)(c) and Article 9(4) of Regulation (EU) No 582/2011 and specified in Annex X to that Regulation for the purpose of approving the OBD

system

Manufacturer	Engine Family	Test Report No.
Cummins	B6.7ED280B B6.7E6D300B	e5*595/2009*2018/932D*0018*00

3.2.12.2.7.0.5

(Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle an OBD equipped engine system

Diesel:

e5\*595/2009\*2018/932D\*0018\*00

3.2.12.2.7.0.6

(Euro VI only) When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the OBD system of an approved engine Diesel:

e5\*595/2009\*2018/932D\*0018\*00

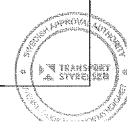
3.2.12.2.7.6.5

(Euro VI only) OBD Communication

protocol standard

: Diesel:

e5\*595/2009\*2018/932D\*0018\*00



	TYPE	Original Date	25.03.2019
TENSA	Whole Vehicle Type Approval	Extension Date	10.07.2020
	Information Document	Extension Number	03

		_	Information Doc	um	ent	Extension Number	
	Temsa Ulaşım A		According to	:		Document Number	2007/46_N004
	ve Tic. A	<b></b>	2007/46/EC*2015/166 E		nnex III	Document Name	
_				=-=			
3		reference of information ( 5(4)(d) and ( (EU) No 582 complying Waccess to Ve	y) Manufacturer the OBD related required by of Article Article 9(4) of Regulation 2/2011 for the purpose of with the provisions on ehicle OBD and vehicle Maintenance Information,	-	Diesel: e5*595/2009	*2018/932D*0018*00	)
	3.2.12.2.7.7.1	reference p 3.2.12.2.7.7 attachment document s Annex III to 582/2011 ti	native to a manufacturer rovided in Section 7 reference of the to the information set out in Appendix 4 of a Regulation (EU) No nat contains the following completed according to example	:	N/A		
	3.2.12.2.7.8.	(EURO VI on-board ti	only) OBD components ne vehicle	:	N/A		
	3.2.12.2.7.8.1	List of OBI	O components on-board	•	N/A		
	3.2.12.2.7.8.2	Written de the MI (10)	scription and/or drawing of	:	N/A		
	3.2.12.2.7.8.3	Written de the OBD o interface (	scription and/or drawing of off-board communication	:	N/A		
	3.2.12.2.8.	Other sys	tems (description and )	:	Yes		
-	3.2.12.2.8.1.	Œuro VI o	only) Systems to ensure the	:	Diesel:		
	3.2.12.2.0.1.	correct or measures	peration of NOx control		e5*595/20	09*2018/932D*0018 <sup>-</sup>	*00
	3.2.12.2.8.2.	Driver inc	lucement system	:	Yes		
•	3.2.12.2.8.2.1	deactivat for use b vehicles	only) Engine with permanention of the driver inducement y the rescue services or in specified in point (b) of (3) of this Directive	t :	Diesel: e5*595/20	009*2018/932D*0018	3*00





### **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 **Information Document Extension Number** 03 According to: **Document Number** 2007/46\_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

3.2.12.2.8.3. (Euro VI only) Number of OBD engine families within the engine family considered when ensuring the correct operation of NOx control

: One

2007/46/EC\*2015/166 EU Annex III

3.2.12,2,8,4,

(Euro VI only) List of the OBD engine : Diesel:

families (when applicable)

measures

e5\*595/2009\*2018/932D\*0018\*00

3.2.12.2.8.5.

(Euro VI only) Number of the OBD engine family the parent engine / the engine member belongs to

One

3.2.12.2.8.6.

(Euro VI only) Lowest concentration of the active ingredient present in the reagent that does not activate the warning system (CD<sub>min</sub>)

: Diesel: 21.5 Cdmin

3.2.12.2.8.7.

(Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle the systems to ensure the correct operation of NOx control measures

: Diesel:

e5\*595/2009\*2018/932D\*0018\*00

3.2.12.2.8.8,

Components on-board the vehicle of the systems ensuring the correct operation of NOx control measures

Manufacturer	Engine Code	correct operation of NOx control measures
Cummins	B6.7E6D280B B6.7E6D300B	N/A

3.2.12.2.8.8.1

Activation of the creep mode:

Manufacturer	Engine Code	See Engine Type Approval	
Cummins	B6.7E6D280B B6.7E6D300B	Disable after	

3.2.12.2.8.8.2

When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the system ensuring

Diesel:

e5\*595/2009\*2018/932D\*0018\*00



	TYPE	Original Date	25.03.2019	
TEMSA	Whole Vehicle Type Approval	Extension Date	10.07.2020	
Temsa Ulaşım Araçları San. ve Tic. A.Ş.	Information Document	Extension Number	03	
	According to:	Decument Number	2007/46 2004	
	2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004	

the correct operation of NOx control measures of an approved engine

3.2.12.2.8.8.3 Written description and/or drawing of the warning signal <sup>(6)</sup>

Manufacturer	Engine Code	See Engine Type Approval
Cummins	B6.7E6D280B B6.7E6D300B	e5*595/2009 *2018/932D* 0018*00 Referenced in CTR 67329 and Cummins AEB 191.42

3.2.12.2.9 Torque limiter:

Cummins

B6.7E6D280B
B6.7E6D300B

N/A

Location of the absorption coefficient symbol (compression ignition engines

only)

See Engine Approval Documents e5\*595/2009\*2018/932D\*0018\*00

3.2.15. LPG fuelling system: : No

3.2.16. NG fuelling system:

No

3.2.17.8.1.0.1 (Euro VI only) Self adaptive feature?

Yes/No (1)

: N/A

3.2.17.8.1.0.2 ((Euro VI only) Calibration for a

specific gas composition NG-H/NG-

L/NG-HL (1)

: N/A

Transformation for a specific gas composition NG-Ht/NG-Lt/NG-HLt (1)





### **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 Information Document **Extension Number** 03 According to: **Document Number** 2007/46 N004 2007/46/EC\*2015/166 EU Annex III

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

3.3. **Electric Motor** 

3.3.1. Type (winding, excitation): Permanent magnet

Performance Battery Voltage:300-750 VDC

3.3.1.1. Maximum hourly output: 195 kW (Nominal)

3.3.1.1.1. Maximum net power (n) Aselsan OPTRAC Engine 230 kW TM4 e-Propulsion Engine 250 kW

3.3.1.1.2. Maximum 30 minutes power (n) 225 kW

3.3.1.2 Operating voltage: 500V-750V DC, negative ground

Battery 3.3.2.

3.3.2.4. Position: Located on the roof of the vehicle

3.4. Engine or motor combination

3.4.1 Hybrid electric vehicle: No

3.4.2. Category of hybrid electric vehicle: N/A

off-vehicle charging/not off-vehicle charging

(Euro VI only) CO2 emissions for

3.5.4. heavy duty engines

3.5.4.1.

CO2 mass emissions WHSC test (x3): See Engine Approval Documents e5\*595/2009\*2018/932D\*0018\*00

3.5.4,2, CO2 mass emissions WHSC test in See Engine Approval Documents diesel mode (x2) e5\*595/2009\*2018/932D\*0018\*00

3.5.4.3. CO2 mass emissions WHSC test in : See Engine Approval Documents

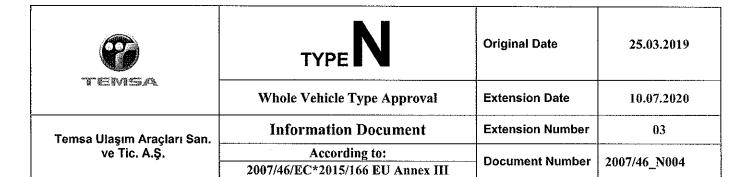
dual-fuel mode (x1) e5\*595/2009\*2018/932D\*0018\*00

3.5.4.4. CO2 mass emissions WHTC test : See Engine Approval Documents (9)(x3) e5\*595/2009\*2018/932D\*0018\*00

CO2 mass emissions WHTC test in 3.5.4.5. See Engine Approval Documents diesel mode (9)(x2)

e5\*595/2009\*2018/932D\*0018\*00

py(expp



3.5.4.6.	CO2 mass emissions WHTC test in dual-fuel mode (9)(x1)	:	See Engine App e5*595/2009*20	roval Documents 18/932D*0018*0	
3.5.5.	(Euro VI only) Fuel consumption for heavy duty engines	:			
3.5.5.1.	Fuel consumption WHSC test (x3)	:	See Engine App e5*595/2009*20	roval Documents 18/932D*0018*0	
3.5.5.2.	Fuel consumption WHSC test in diesel mode (x2)	:	See Engine App e5*595/2009*20	roval Documents 18/932D*0018*0	
3.5.5.3.	Fuel consumption WHSC test in dual-fuel mode	:		roval Documents 18/932D*0018*0	
3.5.5.4.	Fuel consumption WHTC test (9)(x3)	:	See Engine App e5*595/2009*20	roval Documents 18/932D*0018*0	
3.5.5.5.	Fuel consumption WHTC test in diesel mode (9)(x2)	:		roval Documents 18/932D*0018*0	
3.5.5.6.	Fuel consumption WHTC test in dual- fuel mode (9)(×1)	:	ooo migiilo i ipp	roval Documents 18/932D*0018*0	
3.6.5	Lubricant temperature	:	Manufacturer	Engine Code	ricant erature Max



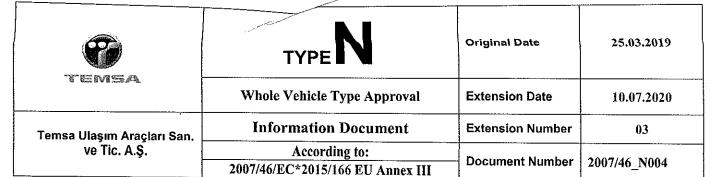
408 K

233 K

B6.7E6D280B

B6.7E6D300B

Cummins



4. TRANSMISSION (p)

4.2. Type (mechanical, hydraulic, electric, etc.)

Mechanical (with internal retarder)

4.5. Gearbox

4.5.1. Type (manual/automatic/CVT (continuously variable transmission)) (1)

Refer to Annex 4.1.F / Automatic

L A THANS CAN



Temsa Ulaşım Araçları San. ve Tic. A.Ş.

TYPE	Original Date	25.03.2019
Whole Vehicle Type Approval	Extension Date	10.07.2020
Information Document	Extension Number	03
According to: 2007/46/EC*2015/166 EU Annex III	Document Number	2007/46_N004

# 4.6. Gear ratios:

		ALLISON	IT 310R		
Gear	Gear Ratio	Final Drive Ratio	Total Gear Ratio	Final Drive Ratio	Total Gear Ratio
1st gear	3,49		20,03		20,0
2nd gear	1,86		10,68	_	10,66
3rd gear	1,41	1	8,09		8,08
4th gear	1,00	5,74	5,74	5,73	5,73
5th gear	0,75		4,31	_	4,3
6th gear	0,65		3,73		3,72
Reverse	5,03		28,87		28,82

		ALLISON	1 T 350R		
Gear	Gear Ratio	Final Drive Ratio	Total Gear Ratio	Final Drive Ratio	Total Gea Ratio
1st gear	3,49		20,03		20,0
2nd gear	1,86	1	10,68	] [	10,66
3rd gear	1,41	,	8,09		8,08
4th gear	1,00	5,74	5,74	5,73	5,73
5th gear	0,75		4,31		4,3
6th gear	0,65		3,73		3,72
Reverse	5,03	1	28,87		28,82

		ALLISON	NT 375R		
Gear	Gear Ratio	Final Drive Ratio		Final Drive Ratio	Total Gea Ratio
1st gear	3,49		20,03		20,0
2nd gear	1,86	•	10,68		10,66
3rd gear	1,41		8,09		8,08
4th gear	1,00	5,74	5,74	5,73	5,73
5th gear	0,75	1	4,31		4,3
6th gear	0,65		3,73		3,72
Reverse	5,03		28,87		28,82

Gear	Gear Ratio	Final Drive Ratio	ZF ECOLIFE  Total Gear Ratio	Final Drive Ratio	Total Gear Ratio
1st gear	3,36	5,74	19,29		19,25
2nd gear	1,91		10,96	1	10,94
3rd gear	1,42		8,15		8,14
4th gear	1,00		5,74	5,73	5,73
5th gear	0,72	-	4,13		4,12
6th gear	0,62	1	3,55	1 [	3,55
Reverse	4,24		24,33		24,29





**Original Date** 

25.03.2019

Whole Vehicle Type Approval

**Extension Date** 

10.07.2020

03

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

**Information Document** According to: 2007/46/EC\*2015/166 EU Annex III **Extension Number Document Number** 

2007/46\_N004

	<u> </u>	6AP 1400 –	ZF ECOLIFE		Total Gear
Gear	Gear Ratio	Final Drive Ratio	Total Gear Ratio	Final Drive Ratio	Ratio
			19,29		19,25
1st gear	3,36	_		-[	10,94
2nd gear	1,91		10,96	-	8,14
3rd gear	1,42		8,15	5,73	5,73
4th gear	1,00	5,74	5,74	3,73	4,12
5th gear	0,72		4,13		3,55
6th gear	0,62		3,55	_	24,29
Reverse	4,24		24,33		

	6AP 1200	B - ZF ECOLIFE	
Gear	Gear Ratio	Final Drive Ratio	Total Gear Ratio
1ot goor	3,36		20,80
1st gear	1,91		11,82
2nd gear	1,42		8,79
3rd gear		6,19	6,19
4th gear_	1,00	٠, ١٥	4,46
5th gear	0,72		3,84
6th gear	0,62		
Reverse	4,24		26,25

For Prestolite TM4 e-Propulsion electric engine; gear ratio: 7,38 and 7,36 For OPTRAC-625 and HVSM-287 electric engine; gear ratio: 7,38 and 7,36

Maximum vehicle design speed (in km/h) (q) 4.7.

100 km/h, 80 km/h (optional)

70 km/h for ASELSAN OPTRAC-625 and HVSM-287 electric engine

70 km/h for Prestolite TM4 e-Propulsion electric engine for Avenue Electron

Tachograph: yes 4.9.

Approval mark 4.9.1.

	130
Component	Approval Mark
Siemens VDO DTCO	e1 84 02
Siemens VDO MITAS	e1 175 02
Siemens VDO KITAS	e1*165/2014*2018/502*0002*00
Continental VDO - KITAS 2185	e1 100/2014 2016/002 000= 11

Gear shift indicator (GSI) 4.11.





TYPE	Original Date	25.03.2019
Whole Vehicle Type Approval	Extension Date	10.07.2020
Information Document	Extension Number	03
According to: 2007/46/FC*2015/166 EU Annex III	Document Number	2007/46_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

4.11.1. Acoustic indication available yes/no (1). If yes, description of sound and sound level at the driver's ear in dB(A). (Acoustic indication always switchable on/off)

N/A

4.11.2. Information according to point 4.6 of Annex I to Regulation (EU) No 65/2012 (determined at type-approval)

N/A

# 5. AXLES

5.1.Description of each axle

Front Axle	Independent- Annex CA_501
Rear Axle	Driven Drop Center Axle

5.2.

Make

ZF

5.3.

Туре

Front Axle	RL82EC	
Rear Axle	AV 132/ 80°	
<del></del>	AV 133/ 80°	

5.4.

Position of retractable axle(s)

N/A

5.5.

Position of loadable axle(s)

N/A

# 6. SUSPENSION

6.2.

Type and design of the suspension

of each axle or wheel:

Axle Type and Design

Independent double wishbone type air spring suspension

Rear Dampers and Air spring suspension

6.2.1.

Level adjustment: Yes

6.2.3.

Air-suspension for driving axle(s): Yes

6.2.3.1.

Suspension of driving axle equivalent to air-suspension: No





# **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 **Information Document Extension Number** 03 According to:

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

Air-suspension for non-driving axle(s): Yes

6.2.4.1.

6.2.4.

Suspension of non-driving axle(s): N/A

2007/46/EC\*2015/166 EU Annex III

equivalent to air-suspension

6.6.1.

Tyre/wheel combination(s)

(a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable) (r)

Tyre	275/70 R 22,5
	148/145
Load index:	150/145
	150/148
Speed Category:	M & J (optional)
Rolling	Min 4.7
resistance	Max 8.34

**Document Number** 

2007/46\_N004

(b) for wheels indicate rim size(s) : and off-set(s)

Rim size	22,5*8,25 22,5*7,5
Offset	152±2 mm
	153±2 mm
	157±2 mm

6.6.1.1.

Axles

Axle 1

Tyre 275/70 R 22,5

6.6.1.1.2.

6.6.1.1.1.

Axle 2

Tyre 275/70 R 22,5

6.6.1.2.

Spare wheel, if any

N/A

6.6.2.

Upper and lower limit of rolling

radii

6.6.2.1.

Axle 1

Upper Lower 465 mm 465 mm

6.6.2.2.

Axle 2

Upper Lower 465 mm 465 mm

# 7. STEERING

7.2.

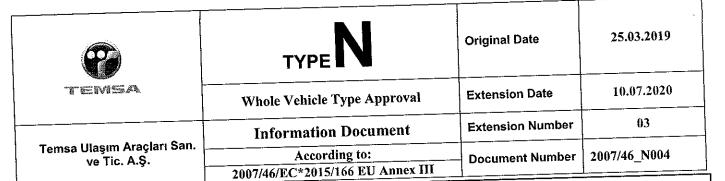
Transmission and control

7.2.1

Type of steering transmission (specify for front and rear, if

: Ball-nut type





applicable) (specify for front and

rear, if applicable)

Linkage to wheels (including other 7.2.2. than mechanical means; specify for

front ans rear, if applicable)

Method of assistance, if any

Mechanical

Hydraulic power assistance

**BRAKES** 8.

7.2.3.

Anti-lock braking system: 8.5.

Yes

Brief description of the braking 8.9. system according to item 1.6 of the

Addendum to Appendix 1 of Annex IX to Directive 71/320/EEC

Service Braking System

Foot operated Pneumatic

2 separate braking circuits for axle 1and 2

ABS operating on Axle 1 and 2

EBS is optional

**Auxilary Brake** 

part of service braking system- one circuit of the

service braking system

**Parking Brake** hand operated

operating on axle 2

type(s) of the **Particulars** of 8.11.

endurance braking system(s)

Internal retarder (intarder) combined with

transmission

It is automatically activated when the brake pedal is

pressed and manually activated with hand

**BODYWORK** 9.

9.1

Type of bodywork using the codes set out in Part C of Annex II

: CE,CX

Occupant doors, latches and 9.3.

hinges

Door configuration and number of : 9.3.1.

doors

Variant		Door	
4 Ci ICIII	Number	Side	Configuration
All	4	Passenger	2 Double
Variants	6	1	3 Double



# TYPE Original Date 25.03.2019 Whole Vehicle Type Approval Extension Date 10.07.2020 Information Document Extension Number 03 According to: 2007/46/EC\*2015/166 EU Annex III Document Number 2007/46\_N004

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

L		2007/46/EC*2015/10	66 EU	Annex III		
	9.9.	Devices for indirect vision				
	9.9.1.	Rear-view mirrors, stating, for each rear-view mirror	1			
	9.9.1.1	Make	:	NZN,Akırmak,	Mekra	
	9.9.1.2	Type-approval mark:	:	Akırmak-II E9 NZN-II E24 46 46R04/04*016 NZN-II E6 46F AKIRMAK-II E	R 020026 59 04 11182, E6 IV 02 0035 020951 7 020952 020915	16
	9.9.1.3.	Variant	:	Class II & Clas	ss IV & Class VI	
	9.9.1.6.	Optional equipment which may affect the rearward field of vision	<i>;</i> :	N/A		
	9.9.2	Devices for indirect vision other than mirrors	r :	Mobilbil IP Ca Camos Came AUDIOBUS C	ra	
	9.9.2.1	Type and description of the device	:	N/A		
	9.10.	Interior arrangement	:			
	9.10.3.	Seats	:			
	9.10.3.1.	Number of seating positions (s)	:	25-39		
	9.10.3.1.1.	Location and arrangement:		Refer to Anne	x 2	
	9.10.3.2.	Seat(s) designated for use only when the vehicle is stationary	у:	N/A		
	9.10.4.1	Type(s) of head restraints:	:	N/A		
	9.10.4.2.	Type-approval number(s), if available	:	N/A		





# **Original Date** 25.03.2019 Whole Vehicle Type Approval **Extension Date** 10.07.2020 **Information Document Extension Number** 03 According to: **Document Number** 2007/46\_N004

Temsa Ulaşım Araçları	San.
ve Tic. A.Ş.	

9.10.8

Gas used as refrigerant in the air-

R134 A

2007/46/EC\*2015/166 EU Annex III

conditioning system

9.10.8.1. The air-conditioning system is

designed to contain fluorinated greenhouse gases with a global warming potential higher than 150 Yes

9.12.2 Nature and position of

supplementary restraint systems

No

(indicate yes/no/optional)

### 9.17 Statutory plates

9.17.1. Photographs and/or drawings of the locations of the statutory plates and

inscriptions and of the vehicle

identification number

Identification Type	Annex
Statutory Plate	CA N904
Vehicle Identification	CA N903
Number (on Chassis)	<del></del>

9,17,2 Photographs and/or drawings of the :

statutory plate and inscriptions

(completed example with

dimensions)

See Annex: CA\_N904

9.17.3 Photographs and/or drawings of the :

vehicle identification number (completed example with

dimensions)

See Annex: CA 901

9.17.4.1 The meaning of characters in the

second section and, if applicable, in the third section used to comply with the requirements of section 5.3 of ISO Standard 3779-1983 shall

be explained

See Annex: CA\_902

9.17.4.2

If characters in the second section are used to comply with the requirements of section 5.4 of ISO

Standard 3779-1983, these

characters shall be indicated:

See item 9.17.4.1.

9.22

Front under-run protection

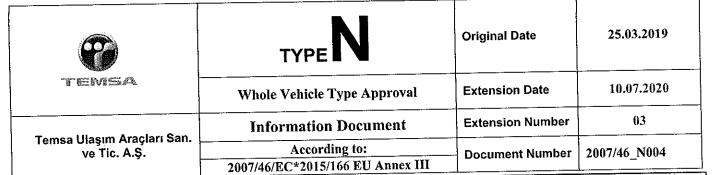
9.22.0.

Presence:

No

9.23

Pedestrian protection



A detailed description, including : N/A 9.23.1 photographs and/or drawings, of the vehicle with respect to the structure, the dimensions, the relevant reference lines and the constituent materials of the frontal part of the vehicle (interior and exterior), including detail of any active protection system installed Frontal protection systems 9.24 General arrangement (drawings or N/A 9,24.1 photographs) indicating the position and attachment of the frontal protection systems Complete details of fittings required : N/A 9.24.3 and full instructions, including torque requirements, for fitting **Connections Between Towing** 11 Vehicles And Trailers And Semi-Trailers

11.1. Class and type of the coupling device(s) fitted or to be fitted

N/A

11.3. Instructions for attachment of the coupling type to the vehicle and photographs or drawings of the fixing points at the vehicle as stated by the manufacturer; additional information, if the use of the coupling type is restricted to certain variants or versions of the vehicle type

N/A

11.4. Information of the fitting of special towing brackets or mounting plates:

N/A

11.5. Type-approval number(s):

N/A

# 12. MISCELLANEOUS

12.7.1. Vehicle equipped with 24 GHz short-range radar equipment

No





# **Original Date** 25.03.2019 10.07.2020 **Extension Date** Whole Vehicle Type Approval 03 **Extension Number Information Document** According to: 2007/46\_N004 **Document Number** 2007/46/EC\*2015/166 EU Annex III

Temsa Ulaşım Araçları San. ve Tic. A.Ş.

# 13. SPECIAL PROVISIONS FOR BUSES AND COACHES

13.1. Class of vehicle

Class I

Chassis types where the type-approved bodywork can be

N/A

installed (manufacturer(s), and vehicle(s) types) 13.1.2

Number of passengers (seated and standing) 13.3

13.3.1 Total (N)

	Min.	Max.	
Avenue LF	70	117	
Avenue LF CNG	90	93	
Avenue EV	71	95	
Avenue Electron	64	98	

Upper deck (Na) (1): 13.3.2

N/A

Lower deck (N<sub>b</sub>) (1): 13,3,3.

N/A

13.4 Number of passengers (seated)

13.4.1 Total (A)

Min.	Max.	
25	39	
	Min. 25	Min. Max.

Avenue LF CNG 26 30 Avenue EV 35 35 Avenue Electron 35 31

13.4.2 Upper deck  $(A_a)^{(1)}$ : N/A

13.4.3 Lower deck (A<sub>b</sub>) (1): N/A

Number of wheelchair positions for category M2 and M3

1-2

13.4.4 vehicles:

16.

Access To Vehicle Repair And Maintenance Information

Address of principal website for access to vehicle repair and

online.temsa.com.tr

maintenance information: 16.1



<u>Date:</u> 10.07.2020														•				ов	a 6	ENG	INE	[····		ОВ	0.0	ENG	INE	···········								
		Description	30	1	Complete	CX		Incomplete	Internal Combustion Engine	Compression Ignition	9T	Electric	ΝΑ	NA	18000 kg.	19145 kg.	6700 cm³	204 kW at 2100 min <sup>-1</sup>	Diesel	78 dB(A)	Euro 6	B6.7E6D280B	6700 cm²	220 kW at 2100 min*	Diesel	75 dB(A)	Euro 6	B6.7E6D300B	TM4 e-Propulsion	250 Kw	73 - 79 dB(A)	NIA	ASELSAN	230 Kw	76 dB(A)	NIA
<u>According to :</u> 2007/49/EC Annex II Part B		De	Type of Bodywork	Class of Vehicle =	Stage of Completion =	Type of Bodywork =	Class of Venide =	Stage of Completion =	Type of Energy Supply ≃	Working Principle ==	Number and Arrangement of Cylinders =	Type of Energy Supply	Working Principle	Number and Arrangement of Cylinders	Technically Permissible Maximum   adep =	Mass	The Engine Capacity =	Maximum Engine Power Output ==	Nature of the Fuel ==	Drive-by Sound Level ==	Exhaust Emission Level =	Engine Code =	The Engine Capacity =	Maximum Engine Power Output =	Nature of the Fuel =	Drive-by Sound Level =	Exhaust Emission Level =	Engine Code =	Manufacturer =	Maximum Power =	Drive-by Sound Level =	Exhaust Emission Level ==	Manufacturer	Maximum Power ≖	Drive-by Sound Level =	Exhaust Emission Level =
ng Table	Version	Maximum Laden Mass. The Engine Capacity Maximum Engine Power Output Nature of the Fuel Unive-by Sound Level Level Exhaust Emission Level			医动脉 医阴影 医阴影 医阴影 医阴影 医阴影						<b>计多数记录的 医复数多形式</b>				8	19 海里高速電磁器高速			L	U o			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L	Ď						To the second		r C	7	
TVV Coding Table	Variant	Type of Energy Supply				The second secon				90			EV								· · · · · · · · · · · · · · · · · · ·															
TEMESA		Type of Completion	z	Category	M3		ర		Company	TEMSA	Construction & Design			100 100 100 100 100 100 100 100 100 100	tber of	Sections	ber of	Axles 2	ergy.	Supply Mode	Onboard															



# **PART II**

# **TVV List of Vehicles**

According to :

Date:

2007/46/EC Annex II Part B

10.07.2020

		Туре	Var	iant	Vers	sion
·	1	•	CE	C6	18	6E
Variant 1	2 .	N	CX	C6	18	6E
Variant i	3	14	CE	C6	19	6E
	4		CX	C6	19	6E
	1		CE	C6	18	6F
Variant 2	2	N	CX	C6	18	6F
	3	14	CE	C6	19	6F
	4		CX	C6	19	6F
	1		CE		18	E1
Variant 3	2	N	U	EV	19	E1
Varianto	3	14	СХ	EV	18	E1
	4		L CX		19	E1
	1		CE		18	E2
Variant 4	2	N		EV	19	E2
variant 4	3	14	СХ	EV.	18	E2
	4				19	E2



	65		Last Updated:			
	THE RESERVE STREET	PART III: List of To	ovals	10.07.2020		
No	Subject	Type Approval Number	Member State or Contracting Party issuing the type-approval	Approval Date	Extension Number	Variant(s)/ Version(s)
1	ECE R 51,02 Permissible Sound Levels	57*51R02/10*0003*03	R\$M	25,11,2019	03	ALL
$\dashv$		24 34RI-020026	NSAL	13.05.2015	01	CEC6
3B	ECE R58.03 Rear Protective Device	57*58R03/00*0050*00	RSM	13,11.2019	00	ALL
4A	EU 1003/2010/EU Rear Registration Plate Space	9*1003/2010*2015/166*1447*01	ESP	14.05.2019	01	ALL
	as amended by 2015/166  ECE R79.03 Steering Effort	E57*79R03/00*0005*03	RSM	5.11.2019	03	ALL
		E24 28R-00008 E57*28R00/05*0002*02	NSAI RSM	14,10,2015 23,10,2019	04 92	CEC6 CXC6 CEEV CXEV
8A		E24 46R-030029 E57*46R04f06*0004*83	NSAI RSM	01,02,2013 05.11.2019	93	CEC6 CXC6 CEEV CXEV
۵,	ECE R13,11 Braking	E57*13R11/16*0020*02	RSM	12.11.2019	02	CEC6 CXC6
"	Loc Nix. 1 Diving	E57*13R11/16*0014*03	RSM	12.11.2019	03	CXEV
104	ECE R10.05 EMC	E57*10R05/01*0036*03	RSM	6.03.2020	03	CEC6
		E57*10R05/01*0018*05	RSM	6.03.2020	05	CXEV
134	ECE R18.03 Anti-theft and immobilizer	E24*18R03/03*0003*06	NSAI	22.10.2019	06	ALL
ļ	ECE-R17.08 The Seats and their Anchorages	E57*17R08/04*0006*62	RSM	4.11,2019	02	ALL
_	EU 130/2012 Vehicle Access and Manoeuvrability	e9*130/2012*130/2012*1140*02	ESP	16.10.2019	02	ALL
178	ECE R39.01 Speedometer and Reverse Gear	E57*39R01/01*0004*03	RSM	6.11.2019	03	ALL
18/	A EU 19/2011/EU Statutory Plates as am. By EU 249/2012	e5*19/2011*249/2012*1041*01	SWE	6.12.2019	01	ALL
19/	A ECE-R14.09 Safety Belt Anchorages	E57*14R09/00*0007*02	RSM	4.11,2019	02	ALL
20,	ECE-R48,04 Installation of Lighting and Light Signalling Devices	E11 48R-043685	VCA	1,11,2019	23	ALL
27,	A EU 1005/2010/EU Towing Hooks	e9*1005/2010*1005/2010*1296*01	ESP	10.04.2019	01	ALL
31.	A ECE-R16.06 Seat Belts	E57*16R06/11*0005*02	RSM	6.11.2019	02	ALL
33	A ECE R121.01 Identification of controls, tell-tales and	E57*121R01/03*0010*02	RSM	18.10.2019	02	ALL
34	A EU Regulation 672/2010 Windscreen defrosting and demisting systems	Suitable system	-	-	-	ALL
35	EU Regulation 1008/2010 Windscreen wiper and washer	Suitable system	-	-	-	ALL
$\vdash$	A ECE R122.00 Heating Systems	E57*122R00/04*8006*03	RSM	23.10.2019	03	ALL
	EC 595/2009 Emissions (Euro VI) heavy duty vehicles/eccess to information A amended by regulation (EU) No 2019/1242, As implemented by regulation (EU) No 582/2011, as last amended by regulation (EU) No 2018/932		KBA	16.06.2020	00	CXC6
45	A ECE-R43.01 Safety Glazing	E57*43R01/08*0003*03	RSM	4.11.2019	03	ALL
46	A 458/2011/EU as am. by 2015/166 Installation of Tyres	e9*458/2011*2015/166*6278*02	ESP	23.10.2019	02	ALL
47	A ECE R89,00 Speed Limitation Devices	E57*89R00/03*0007*03	RSM	8.11.2019	03	ALL
41	BA EU 1230/2012/EU Masses and Dimensions	e9'1230/2012'1230/2012'6035'03	ESP	18.10.2019	03	ALL
5	A ECE-R118.01 Burning Behavior of Materials Vehicle	E57*118Ri03/01*0057*00	RSM	10.07.2020	00	ALL
┢	Installation  ZA ECE-R197.06 Buses and Coaches	E57*107!R06/07*0012*03	RSM	21.04.2020	03	CEC6 CEEV
- 1		E11*100R-011094	VCA	15.07.2016	00	CEEV

Responsible Engineer Esin Ateş Position: Homologation Engineer Date: 10,07,2020





Scalle

AVENUE ELECTRON

# **ANNEX TM**



January 17th, 2019

**To: Mrs Duygu Yaycıoğlu** TEMSA ULASIM ARACLARI SANAYI VE TICARET A.S. Sarihamzali Mah. Turhan Cemal Beriker Blv. No:563 0110 Adana, TURKEY

**SUB:** Motor commercial name for ECE R85

TM4 would like to hereby state that the ECE R85 report number E9-85R-00.1353-00 contains a typo resulting in an incorrect reference to the commercial name of the electric motor certified under this report.

The report refers to the motor as having a the commercial name "LSM280C-HV2700-A1" while the correct name is in fact "LSM280A-HV2700-A1". There as never been a similar product sold under the name "LSM280C-HV2700-A1" at TM4.

When possible and suitable, TM4 will have the report updated with the correct commercial name but in the meantime, considering the minor nature of the incoherence in the commercial name caused by this error, we would like to ask homologation authorities to consider that our aforementioned ECE R85 certificate is valid for products that have been labeled with the commercial name "LSM280A-HV2700-A1".

We thank you in advance for your cooperation.

Yours sincerely,

Eric Azeroual

Director, Sales and Customer support

TM4 Inc.

TM4 Inc. 135, J.-A.-Bombardier, Suite 25 Boucherville (Québec), J4B 8P1 Canada Telephone: (450) 645-1444 Fax: (450) 645-1864



TİCARET A.Ş. Type: N



ISP Nº 0184 I

Membro degli Accordi di Mutuo Riconoscenento EA, IAF e ILAC

Sylong.

A. STVORESUM

Page 1 of 16

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma This inspection report shall not be reproduced except in full, without written approval of the technical service.

# Whole Vehicle

0. Legislation: 0.1. Requirements according to (EC) No 2007/46 as amended Regulation EU 2015/166 1. General 1.1. Reason for Inspection Report New approval / Extension of approval / Test report only 1.2. Reason of extension 1) Addition of new indirect vision devices 2) Addition of new interior materials 3) Addition of new electrical / electronic devices 4) Addition of new OBD-D Engine 5) Addition of new representative drawing 6) Addition of optional rear axle load capacity 7) Addition of new FDR values 8) Correction of manufacturer's engine code for Electric Engine 9) Modification of Annex List 10) Update of Part II & Part III of information document 11) Correction of template of 2007/46 information document 12) Change of items 1.8, 1.8.1, 2.4.2.3, 2.6, 2.6.1, 2.8.1, 3.3.1.1.2, 4.6, 9.9.1.2, 9.9.1.3, 9.9.2 of information document 13) Update of items 3.2.1.11, 3.2.12.2.7.0.4, 3.2.12.2.7.0.5, 3.2.12.2.7.0.6, 3.2.12.2.7.6.5, 3.2.12.2.7.7, 3.2.12.2.8.1, 3.2.12.2.8.2.1, 3.2.12.2.8.4, 3.2.12.2.8.7, 3.2.12.2.8.8.2, 3.2.12.2.8.6. of information document 14) Update of amendment level to (EU) 2015/166 1.3. Manufacturer's Representative(s) No attendance 1.4. CETOC TS Representative(s) No attendance 1.5. Location of Test Not applicable 1.2. Data of test Not applicable 2. Manufacturer Details 2.1. Make **TEMSA** 2.2. Type Ν 2.3. Variant/Version See Part II of information document 2.4. Commercial Name Avenue LF, AVENUE, AVENUE L, AVENUE LE, AVENUE LF CNG, AVENUE CNG L, AVENUE LE RHD, AVENUE LF RHD, IBUS, AVENUE IBUS, MEGAPOL, MEGAPOL LE. MEGAPOL LF, AVENUE LF12 L, AVENUE LF12, LF12 LF12 L, Avenue Plus, Avenue EV, Avenue electriCITY, Avenue

EVL, Avenue Electron

TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARETA

Sarıhamzalı Mahallesi Turhan Cemal Beriker Bulyanı

No: 563/A Seyhan / ADANA / TURKEY

Category

manufacturer

Name and Address of

2.5.

2.6.



ACCREDIA 🖏

ISP Nº 0184 E

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma This inspection report shall not be reproduced except in full, without written approval of the technical service.

# 3. Conclusion:

3.1. Final conclusion of the inspection:

The above mentioned type was tested in accordance with the above mentioned legislation and was found to comply in all respects. This Inspection report relates only to the items tested.

Signature: :

Place and date:

Name: : Mehmet Kılıç

Tuna Annayal Engines

Istanbul, 10.07.2020

Massimo Peraboni

Position: : Type Approval Engineer

Tech. Mgr. / Vice Tech. Mgr.

Roma, 21.07.2020

## 4. List of annexes:

Annex Nr.	Page Nr.	Subject
Annex I	1	List of modifications
Annex II	10	Report of the conformity check requirements of Directive (EC) 2007/46, Annex IV
Annex III	36	Information document Nr. 2007/46_N004



TİCARET A.Ş.

Type: N



Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

This inspection report shall not be reproduced except in full, without written approval of the technical service.

See annexes,

Manufacturer has applied step-by-step type-approval

procedure.

5. **Worst Case Rationale**  All type-approval certificates pursuant to the regulation acts which is applicable for the vehicle type in question were checked and it is confirmed that they cover the rela-

tive vehicle type.

List of regulatory acts for EC type-approval of vehicles

produced in unlimited series was checked.

For the new changes / corrections / additions, the manu-

facturer has submitted below approvals.

6. Significant Interpretations, Alternative Test Methods, New Technologies

Not applicable

7. Additional Information

7.1 Name and address of assembly

plant

TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARET A.Ş.

Sarıhamzalı Mahallesi Turhan Cemal Beriker Bulvarı, No: 563/A Seyhan / ADANA / TURKEY

7.2 Name and address of manufac-

turer's representative

TEMSA Deutschland GmbH Gottlieb-Daimler-Ring 8

74906 Bad Rappenau, Germany

7.3 Location of approval mark

(where applicable)

Close to the manufacturer's statutory plate

7.4 Approval type

Step-by-step type-approval Single-step-type-approval

Mixed type approval

7.5 Report Status : for type of complete vehicle for type of completed vehicle

for type of incomplete vehicle

for type of vehicle with complete and incomplete variants for type of vehicle with completed and incomplete variants

8. Vehicle Specification

8.1 Vehicle Identification Number

8.2 Variant / Version

8.3 Class of Vehicle

8.4

Number of Passenger

8.5 Tyre Size

8.6 Size/Make/Type

8.7 Pressure (bar) Not applicable for this application.





CETOC TS

Inspection Report Nr.: TU-23-1-68-W20-0472-FIR Manufacturer: TEMSA ULAŞIM ARAÇLARI SANAYİ VE TİCARET A.Ş.

Type: N



SP Nº 0184 E

Membro degli Accordi di Nutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognibon Agreements

CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma

This inspection report shall not be reproduced except in full, without written approval of the technical service.

8.8	Tread Depth (mm)		
8.9	Maximum Laden Mass		
8.10	Mass in Running Order		
8.11	Test Mass		
8.12	Engine Type		
8.13	Rated Power		
8.14	Transmission		
8.15	Axle Ratio		
8.16	Maximum Vehicle Speed		
8.17	Steering Wheel Nominal Diameter		Not applicable for this application.
8.18	Vehicle Length (mm)		
8.19	Vehicle Height (mm)		
8.20	Vehicle Width (mm)		
8.21	Wheelbase (mm)		
8.22	Overhang (mm)		
8.23	Track		
8.24	Centre of Gravity (mm)		
8.25	Number of Cylinders		
8.26	Catalyst Part Number(s)		
8.27	Silencer Part Number(s)		
8.28	Air Cleaner Part Number		
8.29	Intake Silencer Part Number		
9.	Test Conditions		
9.1.1.	Parameter of the test area	:	Not applicable
9.1.2.	Equipment for measuring and testing	;	Not applicable
9.2.1.	Check of requirements of Directive (EC) 2007/46, Annex IV		See system type approvals
9.2.1.1.	Requirements fulfilled	:	⊠ Yes
			□ No
9.2.1.2.	Proof of requirements	:	Test report / test sheet / type approval
9.2.2.	Used virtual- and self-testing		



methods by manufacturer



TİCARET A.Ş. Type: N

L'ENTE ITALIANO DI ACCREDITAMENTO 💉
-------------------------------------

ISP N° 0184 E

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC TS

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

Remarks

10.

This inspection report shall not be reproduced except in full, without written approval of the technical service.

9.2.2.1. Virtual testing methods : 🗆 Yes  $\boxtimes$ No 9.2.2.2. Self-testing methods by manu-Yes facturer  $\times$ No 9.2.2.3. Proof of requirements ☐ Yes  $\boxtimes$ No

: CETOC TS apply measurement uncertainty to calibrated

items but not test results.





Type: N

TİCARET A.Ş.



Membro degli Accordi di Nukua Riconoscimento EA, LAF e ILAC

Signatory of EA, IAF and BAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

This inspection report shall not be reproduced except in full, without written approval of the technical service.

# Annex I

# List of modifications

Annex 1

More details for application of

Date: 10.07.2020

Correction of

: Manufacturer's engine code for Electric Engine

Template of 2007/46 information document

Modification of

: Annex List

Part II & Part III of information document

items 1.8, 1.8.1, 2.4.2.3, 2.6, 2.6.1, 2.8.1, 3.3.1.1.2, 4.6, 9.9.1.2,

9.9.1.3, 9.9.2 of information document

items 3.2.1.11, 3.2.12.2.7.0.4, 3.2.12.2.7.0.5, 3.2.12.2.7.0.6, 3.2.12.2.7.6.5, 3.2.12.2.7.7, 3.2.12.2.8.1, 3.2.12.2.8.2.1, 3.2.12.2.8.4, 3.2.12.2.8.7, 3.2.12.2.8.8.2, 3.2.12.2.8.6. of infor-

mation document

Amendment level to (EU) 2015/166

Addition of

New indirect vision devices

New interior materials

New electrical / electronic devices

New OBD-D Engine

New representative drawing Optional rear axle load capacity

New FDR values

Deletion of

Reasons(s) of modifica-

tions (if required)





CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

Inspection Report Nr.: TU-23-1-68-W20-0472-FIR Manufacturer: TEMSA ULAŞIM ARAÇLARI SANAYİ VE

TİCARET A.Ş.

Type: N



Membro degli Accordi di Nutua Riconoscimento EA, IAF e ItAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

# Annex II

This inspection report shall not be reproduced except in full, without written approval of the technical service.

# Report of the conformity check requirements of Directive (EC) 2007/46, Annex IV

	Subject	Regulatory act reference (1)	As amended by	Applicable to versions	Approval Number/ Test Report Number
	is stage(s) whole ve- le type approval (if applicable)	Directive 2007/46/EC	-	-	-
	(п аррисавіе)				
		2007/46 Annex XVII			
	stage build Additional acturer's plate (if appli- cable)	Multistage Procedures Section 4	-	-	-
1.	Permissible sound level	Directive 70/157/EEC	-	•	-
1a	Sound level	Regulation (EU) 540/2014	-	-	-
2.	Emissions		-	-	-
	Emissions (Euro 5 & 6) light-duty vehicles	Directive 70/157/EEC -	02	ALL	E57*51R02/10*0003*03
2a.	/access to information	UNECE Regulation No.51			
3.	Fuel tanks/Rear pro- tective devices	Directive 70/221/EEC	-	-	-
	Prevention of Fire Risks	Regulation (EC) 661/2009 UNECE	02	CEC6 CXC6	E24 34RI-020026 (Ext. 01)
3a.		Regulation No.34			
3b.	Rear under-run protective de- vices and installation	UNECE	03	ALL	E57*58R03/00*0050*00
	TIOOD WITH MINIMARION	Regulation No.58			
4.	Rear registration plate space	Directive 70/222/EEC	-	-	-
4a	Space for mounting and fix- ing rear registration plates	Regulation (EU) 1003/2010	2015/166	ALL	e9*1003/2010*2015/166*1447*0
5.	Steering effort	Directive 70/311/EEC	-	-	( ) A Thanspol ( ) A Sylopide





ISP Nº 0184 E

Membro degli Accordi di Niutuo Riconosesmento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

5a.	Steering equipment	Regulation (EC) No. 661/2009 UNECE	03	ALL	E57*79R03/00*0005*03
6.	Door latches and hinges	Regulation No.79  Directive 70/387/EEC	_		<u>-</u>
6a.	Vehicle access and manoeuvrability	Regulation (EC) No. 661/2009 Regulation (EU) No.130/2012	-	-	-
6b.	Door latches and door re- tention components	Regulation (EC) No 661/2009 UNECE	-	-	-
7	Audible warning	Directive 70/388/EEC	-	-	-
7a.	Audible warning devices and	Regulation (EC) No. 661/2009 UNECE	00	CEC6 CXC6	E24 28R-000008 (Ext. 04)
	signals	Regulation No. 28	00	CEEV CXEV	E57*28R00/05*0002*02
8.	Indirect vision devices di- rective	Directive 2003/97/EC	-	-	-
8a.	Devices for indirect vision and their installation	Regulation (EC) No. 661/2009 UNECE	03 04	CEC6 CXC6 CEEV	E24 46R-030029 E57*46R04/06*0004*03
		Regulation No. 46		CXEV	207 401104/00 0004 03
9.	Braking	Directive 71/320/EEC	-		-
9a.	Braking of vehicle and	UNECE	11	CEC6 CXC6	E57*13R11/16*0020*02
	trailers	Regulation No. 13	11	CEEV CXEV	E57*13R11/16*0014*03
9b	Braking of passenger cars	Regulation (EC) No 661/2009 UNECE Regulation No.13-H	-	-	-
10.	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	<b>-</b>	-	-





Type: N



ISP Nº 0184 E

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

	Electromagnetic	UNECE	05	CEC6 CXC6	E57*10R05/01*0036*03	
10a.	Electromagnetic compatibility	Regulation No.10	05	CEEV CXEV	E57*10R05/01*0018*05	
12	Interior fittings	Directive 74/60/EEC	-	-	-	
12a	Interior fittings	Regulation (EC) No 661/2009 UNECE	-	-	-	
140		Regulation No. 21				
13.	Anti-theft and immobiliser	Directive 74/61/EEC	-	-	-	
13a.	Protection of motor ve- hicle against	Regulation (EC) No. 661/2009 UNECE	03	ALL	E24*18R03/03*0003*06	
	unauthorised use	Regulation No.18				
13b.	Protection of motor ve- hicle against	Regulation (EC) No 661/2009 UNECE	_	-	•	
	unauthorised use	Regulation No.116				
14	Protective Steering	Directive 74/297/EEC	-	-	-	
	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE	-	-	-	
14a.	nishi in the event of impact	Regulation No. 12				
15	Seat strength	Directive 74/408/EEC	-	-	-	
15a.	Seats, their anchorages and any head restraints	UNECE	08	ALL	E57*17R08/04*0006*02	
		Regulation No. 17	•			
15b	Seats of large passenger ve- hicles	UNECE	<u>-</u>	-	-	
		Regulation No. 80				
16	Exterior projections	Directive 74/483/EEC	-	-	-	
16a	External projections	Regulation (EC) No 661/2009 UNECE	-	-	-	
		Regulation No. 26				
17.	Speedometer and re- verse gear	Directive 75/443/EEC	-	-	TO SECOND AND AND AND AND AND AND AND AND AND A	





ISP Nº 0184 E

Membro degli Accordi di Mixtuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognision Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

17a.	Vehicle access and manoeuvrability	Regulation (EC) No. 661/2009	130/2012	ALL	e9*130/2012*130/2012*1140*02
		Regulation (EU) No. 130/2012			
17b.	Speedometer equipment in- cluding its installation	Regulation (EC) No. 661/2009 UNECE	01	ALL	E57*39R01/01*0004*03
	•	Regulation No. 39			
18.	Plates (statutory)	Directive 76/114/EEC	-	-	-
18a.	Manufacturer's statutory plate and vehicle identifica-	Regulation (EC) No. 661/2009	249/2012	ALL	e5*19/2011*249/2012*1041*01
	tion number	Regulation (EU) 19/2011			
19.	Seat-belt anchorages	Directive 76/115/EEC	-	-	-
19a.	Safety-belt anchorages, ISOFIX anchorage systems and ISOFIX top tether an-	UNECE Regulation No. 14	09	ALL	E57*14R09/00*0007*02
	chorages	rogulation no. 14			
20.	Installation of lighting and light signalling devices	Directive 76/756/EEC	-	-	-
20a.	Installation of lighting and light signalling devices on vehicles	Regulation (EC) No. 661/2009 UNECE	04	ALL	E11 48R-043685 (Ext. 23)
		Regulation No. 48			
21.	Retro reflectors	Directive 76/757/EEC	-	-	-
21a.	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No. 661/2009 UNECE	-	-	-
	treir trailers	Regulation No. 3			
22.	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	-	-	-
22a.	Front and rear position lamps, stop-lamps and end outline marker lamps for motor vehi-	Regulation (EC) No. 661/2009 UNECE	-	-	
	cles and their trailers	Regulation No. 7			-
22b.	Daytime running lamps for power- driven vehicles	Regulation (EC) No. 661/2009 UNECE	-	-	www.madeballycensuschenspelm
		Regulation No. 87			PER PROVE AND A STATE OF THE PER PER PER PER PER PER PER PER PER PE



Type: N



ISP Nº 0184 E

Membro degli Accordi di Mutua Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognison Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

Side marker lamps for motor vehicles and their trailers		Regulation (EC) No. 661/2009 UNECE	-	-	-
		Regulation No. 91			
23.	Direction indicators	Directive 76/759/EEC	-	-	-
23a.	Direction indicators for power-driven vehicles and	Regulation (EC) No.661/2009 UNECE	-	-	-
	their trailers	Regulation No.6			
24.	Rear registration plate lamps	Directive 76/760/EEC	-	-	-
	Illumination of rear- regis- tration plates of power- driven vehicles and their	Regulation (EC) No.661/2009 UNECE	-	-	-
24a.	trailers	Regulation No.4			
25.	Headlamps (including bulbs)	Directive 76/761/EEC	-	-	-
25a.	Power-driven vehicle sealed beam headlamps emitting a European asymmetrical pass- ing beam or a driving lamp or both	Regulation (EC) No. 661/2009 UNECE Regulation No. 31	-	-	-
	Eilement lamne for use in an				
25b.	Filament lamps for use in ap- proved lamp units of power- driven vehicles and their trail-	Regulation (EC) No.661/2009 UNECE	-	-	-
	ers	Regulation No. 37			
25c.	Motor vehicles headlamps equipped with gas discharge	Regulation (EC) No.661/2009 UNECE	-	-	-
	light sources	Regulation No. 98			
	Gas discharge light sources for use in approved gas dis- charge lamp units of power-	Regulation (EC) No. 661/2009 UNECE	-	-	•
25d.	driven vehicles	Regulation No.99			
	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped	Regulation (EC) No. 661/2009 UNECE	-	-	
25e.	with filament lamps and/or LED modules	Regulation No.112			in and a second and a second and a second and a second and a second and a second and a second and a second and





Type: N



ISP Nº 0184 B

Membro degli Accordi di Mutua Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

25f.	Adaptive front lighting systems (AFS) for motor vehicles	Regulation (EC) No. 661/2009 UNECE Regulation No. 123	-	-	-
26.	Front fog lamps	Directive 77/762/EEC	-	-	-
26a.	Power-driven vehicles front fog lamps	Regulation (EC) No. 661/2009 UNECE		-	-
		Regulation No.19			
27.	Towing hooks	Directive 77/389/EEC	-	-	-
27a.	Towing device	Regulation (EC) No. 661/2009	1005/2010	ALL	e9*1005/2010*1005/2010*1296* 01
	-	Regulation (EU) No.1005/2010			
28.	Rear fog lamps	Directive 77/538/EEC	-	-	-
28a.	Rear fog lamps for power- driven vehicles and their	Regulation (EC) No. 661/2009 UNECE	-	-	-
	trailers	Regulation No.38			
29.	Reversing lamps	Directive 77/539/EEC	-	-	-
29a.	Reversing lights for pow- er-driven vehicles and their trailers	Regulation (EC) No. 661/2009 UNECE	-	-	-
		Regulation No. 23			
30.	Parking lamps	Directive 77/540/EEC	-	-	-
30a.	Parking lamps for power- driven vehicles	Regulation (EC) No.661/2009 UNECE	-	-	-
		Regulation No.77			
31.	Seat-belts and restraint systems	Directive 77/541/EEC	-	-	-
	Safety belts, restraint sys- tems, child restraint sys- tems and ISOFIX child re-	UNECE	06	ALL	E57*16R06/11*0005*02
31a.	straint systems	Regulation No.16			
32	Forward vision	Directive 77/649/EEC	-	-	-
32a	Forward field of vision	Regulation (EC) No 661/2009 UNECE	-	-	- Comment of the Comm
		Regulation No.125			



Type: N



SP Nº 0184 E

Membro degli Accordi di Mutuo Riconoscemento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

33.	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	-	-	-
33a.	Location and identifica- tion of hand controls, tell- tales and indicators	Regulation (EC) No.661/2009 UNECE Regulation No. 121	01	ALL	E57*121R01/03*0010*02
34.	Defrost/demist	Directive 78/317/EEC	-	-	-
34a	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	-	-	-
35.	Wash/wipe	Directive 78/318/EEC	-	-	-
35a	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	-	-	-
36.	Heating systems	Directive 2001/56/EC	-	-	-
36a.	Heating Systems	UNECE Regulation No.122	00	ALL	E57*122R00/04*0006*03
37	Wheel guards	Directive 78/549/EEC	-	-	-
37a	Wheel guards	Regulation (EC) No 661/2009 Regulation (EU) No 1009/2010	-	-	-
38	Head restraints	Directive 78/932/EEC	-	-	-
38a	·Head restraints (head- rests), whether or not in- corporated in vehicle seats	Regulation (EC) No 661/2009 UNECE Regulation No. 25	-	-	-
41.	Emissions (Euro IV & V) heavy duty vehicles	Directive 2005/55/EC	-	-	-
41a	Emissions (Euro IV) heavy duty vehicles /access to information	Regulation (EC) No.595/2009	imp. by EU Reg. 582/2011, as last am. by EU Reg. 2018/932D	CEC6 CXC6	e1*595/2009*2018/932D*0139*0 0



ACCREDIA 🐧

ISP N° 0184 E

Membro degli Accordi di Multuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognison Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma This inspection report shall not be reproduced except in full, without written approval of the technical service.

44	Masses and dimensions (cars)	Directive 92/21/EEC	-	-	-
44a	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	-	-	-
45.	Safety glazing	Directive 92/22/EEC	-	-	-
45a.	Safety glazing materials and their installation on ve- hicles.	UNECE Regulation No.43	01	ALL	E57*43R01/08*0003*03
46.	Tyres	Directive 92/23/EEC	-	-	-
46a.	Installation of tyres	Regulation (EC) No. 661/2009	2015/166	ALL	e9*458/2011*2015/166*6278*02
400.	Installation of tyres	Regulation (EU) No.458/2011			
46b.	Pneumatic Tyres for com- mercial vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No. 30	-	-	-
46c.	Pneumatic Tyres for com- mercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No.661/2009 UNECE  Regulation No.54	-	-	-
46d.	Tyre rolling sound emissions on wet sur- faces and rolling re- sistance	Regulation (EC) No. 661/2009 UNECE Regulation No.117	-	-	-
46e.	Temporary-use spare unit, run-flat tyres/systems and tyre pressure monitoring systems	Regulation (EC) No 661/2009 UNECE Regulation No. 64	-	-	-
47	Speed limitation devices	Directive 92/24/EEC	-	-	-
	Speed Limitation of Ve- hicles	Regulation (EC) No.661/2009 UNECE	00	ALL	E57*89R00/03*0007*03
47a.		Regulation No. 89			
48.	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC	-	-	The second secon

ų inanspusy 1. stveelėje





ISP Nº 0184 E

Membro degli Accordi di Niutuo Riconoscamento EA, IAF e II.AC Signatory of EA, IAF and II.AC Mufual Recognition Agreements

Page 15 of 16

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

48a.	Masses and dimensions	Regulation (EU) No.1230/2012	1230/2012	ALL	e9*1230/2012*1230/2012*6035* 03
50,	Couplings	Directive 94/20/EC	-	~	-
50a.	Mechanical coupling com- ponents of combination of vehicles	UNECE Regulation No. 55	-	, <b>-</b>	_
51	Flammability	Directive 95/28/EC	_	-	-
51a	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No.118	03	ALL	E57*118Ri03/01*0057*00
52	Buses and coaches	Directive 2001/85/EC	-	-	-
52a	M2 and M3 vehicles	UNECE Regulation No.107	06	CEC6 CEEV	E57*107IR06/07*0012*03
52b	Strength of the superstruc- ture of large passenger ve- hicles	UNECE Regulation No.66	-	-	-
53	Frontal impact	Directive 96/79/EC	-	-	-
53a	Protection of occupants in the event of a frontal colli- sion	Regulation (EC) No 661/2009 UNECE Regulation No.94	-	-	-
54.	Side impact	Directive 96/27/EC	-	-	-
54a.	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No.95	-	-	-
58.	Pedestrian protection	Regulation (EC) No 78/2009	-	<u>.</u>	-
59.	Recyclability	Directive 2005/64/EC	•	<del>.</del>	waterplane on the state of the
61	Air-conditioning systems	Directive 2006/40/EC	-	-	O A STYRELSEN



Type: N



Membro degli Accordi di Mutuo Riconoscimento EA, EAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognision Agreements

CETOC Technical Service srl Via della Bufalotta, 374, 00139 Roma

62.	Hydrogen System	Regulation (EC) No.79/2009	-	-	-
63,	General Safety	Regulation (EC) No.661/2009	-	-	. •
64	Gear shift indicators	Regulation (EC) No 661/2009 [1229/12- 116] (EU) No. 65/2012	-	-	-
65.	Advanced emergency braking system	Regulation (EC) No. 661/2009 Regulation (EU) No.347/2012	-	-	-
66.	Lane departure warning sys- tem	Regulation (EC) No. 661/2009 Regulation (EU) No.351/2012	-	-	-
67.	Specific components for LPG and their installation on motor vehicles	Regulation (EC) No. 661/2009 UNECE Regulation No. 67	-	-	-
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	-	-	-
69.	Electrical safety	Regulation (EC) No. 661/2009 UNECE Regulation No. 100	01 02	CEEV CXEV	E11*100R-011094 (Ext. 00) E57*100R02/03*0004*00
70.	Specific components for CNG and their installation on motor vehicles	Regulation (EC) No. 661/2009 UNECE Regulation No. 110	-	-	
72	eCall system	Regulation (EU) 2015/758	-	-	-



