



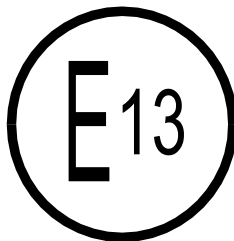
**Référence:** E13\*59R02/01\*0064A\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 01 septembre 2021

**Communication concernant:**<sup>(2)</sup>

Communication concerning:



- la délivrance d'une homologation  
approval granted
- ~~l'extension d'homologation~~  
approval extended
- ~~le refus d'homologation~~  
approval refused
- ~~le retrait d'homologation~~  
approval withdrawn
- ~~l'arrêt définitif de la production~~  
production definitely discontinued

**d'un type de dispositif silencieux d'échappement de remplacement ou d'élément d'un tel dispositif en application du Règlement N° 59.**

of a type of replacement silencing system or components of the said system pursuant to Regulation No. 59.

**Numéro d'homologation par type:**  
Approval number:

E13\*59R02/01\*0064A\*00

**Raison(s) de l'extension:**  
*Reason(s) of extension:*

*Not applicable*

**1. Marque de fabrique ou de commerce du dispositif silencieux d'échappement:**  
Trade name or mark of the exhaust silencing system:

Stoll GmbH

**2. Type du dispositif silencieux d'échappement:**  
Type of the exhaust silencing system:

Stoll AGA EA825

**3. Nom et adresse du fabricant:**  
Manufacturer's name and address:

Stoll GmbH  
Porschestraße 1  
D-79761 Waldshut-Tiengen

**4. Le cas échéant, nom et adresse de son mandataire:**  
If applicable, name and address of manufacturer's representative:

Not applicable

**5. Description sommaire du dispositif silencieux (avec/sans <sup>(2)</sup> / matériaux fibreux, etc.):**  
Brief description of the exhaust silencing system (with/without <sup>(2)</sup> / fibrous material, etc.):

Front and rear-silencers with fibrous material; absorption /reflection principle.

<b>6.</b>	<b>Marque de fabrication ou de commerce du type de véhicule auquel le dispositif silencieux est destiné:</b> Trade name or mark of the vehicle type for which the exhaust silencing system is intended:	Audi RS 6 Avant RS 7 Sportback
<b>7.</b>	<b>Type de ce véhicule, à commencer par le numéro de série:</b> Vehicle type, starting from serial number:	F2 serial number: not applicable
<b>8.</b>	<b>Principe de fonctionnement du moteur (à allumage commandé, à allumage par compression etc.):</b> Kind of engine:	Positive-ignition
<b>9.</b>	<b>Cycle <sup>(2)</sup>:</b> Cycles <sup>(2)</sup> :	<del>Two stroke</del> / Four stroke
<b>10.</b>	<b>Cylindrée:</b> Cylinder capacity:	See appendix 2/00
<b>11.</b>	<b>Puissance maximale du moteur (kW):</b> Rated maximum net power (kW):	See appendix 2/00
<b>12.</b>	<b>Nombre de rapports de la boîte de vitesses:</b> Number of gears:	See appendix 3/00
<b>13.</b>	<b>Rapport(s) de la boîte de vitesses utilise(s):</b> Gears used:	See appendix 3/00
<b>14.</b>	<b>Rapport(s) du pont:</b> Final drive ratio(s):	See appendix 3/00
<b>15.</b>	<b>Régime de puissance maximale:</b> Rated maximum net power:	See appendix 2/00
<b>16.</b>	<b>Conditions de charge du véhicule pendant l'essai:</b> Load conditions of vehicles during test:	2150 kg
<b>17.</b>	<b>Valeurs du niveau sonore:</b> Sound levels:	See appendix 3/00
<b>17.1</b>	<b>- Véhicule en marche [db(A)]:</b> Vehicle in motion [dbA]:	See appendix 3/00
<b>17.2</b>	<b>- Véhicule à l'arrêt [db(A)] à [tr/min]:</b> Vehicle stationary [dbA] with engine running at [rpm]:	See appendix 3/00
<b>18.</b>	<b>Valeur de la contre-pression:</b> Value of the back pressure:	See appendix 3/00
<b>19.</b>	<b>Dispositif silencieux présenté</b> Exhaust silencing system submitted	
	<b>- à l'homologation le:</b> for approval on:	2021-03-29, 2021-03-31 (Test series A)
	<b>- à l'extension de l'homologation le:</b> for extension of approval on:	Not applicable

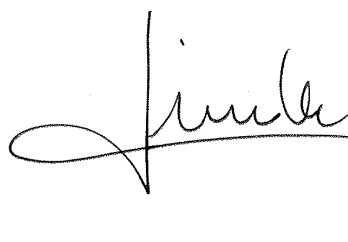
20. **Service technique chargé des essais d'homologation:**  
Technical service responsible for conducting approval tests:
- TÜV Rheinland Luxemburg S.à r.l.  
2-4, rue Edmond Reuter  
L-5326 Contern
21. **Date du procès-verbal émis par ce service:**  
Date of report issued by that service:
- 24.08.2021
22. **Numéro du procès-verbal émis par ce service:**  
Number of report issued by that service:
- 215LP0003-00
23. **L'homologation est <sup>(2)</sup>:**  
Approval:
- Granted / ~~extended~~ / ~~refused~~ / ~~withdrawn~~
24. **Emplacement sur le dispositif silencieux de la marque d'homologation:**  
Position of approval mark on the vehicle:
- The UN approval mark is engraved onto the exhaust silencers outer shell.
25. **Lieu:**  
Place:
- Bertrange
26. **Date:**  
Date:
- 01 septembre 2021
27. **Signature:**  
Signature:

Pour le Ministre de la Mobilité  
et des Travaux publics



Alain DISVISCOUR  
Conseiller

Pour la SNCH




Laurent LINDEN  
Directeur opérationnel



28. **Sont annexes à la présente communication les pièces suivantes qui portent le numéro d'homologation indiqué ci-dessus:**

The following documents, bearing the approval number shown above, are annexed to this communication:

- **dessins, schémas et plans du dispositif silencieux d'échappement**  
- drawings, diagrams and plans of the silencing system
- **photographies du dispositif silencieux d'échappement**  
- photographs of the exhaust silencing system
- **bordereau des éléments, dûment identifiés, formant le dispositif silencieux**  
- list of components, duly identified constituting the exhaust silencing system

<sup>2</sup> **Biffer la mention qui ne convient pas**  
Strike out what does not apply



**Référence:** E13\*59R02/01\*0064A\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Bertrange, le 01 septembre 2021

## Index du dossier d'homologation

Index to type-approval report

	<b>Numéro d'homologation:</b> Approval number:	E13*59R02/01*0064A*00
	<b>Révision:</b> Revision:	00
	<b>Marque de fabrique ou de commerce:</b> Trade name or mark:	Stoll GmbH
	<b>Type:</b> Type:	Stoll AGA EA825
1.	<b>Procès-verbal d'essai:</b> Test report:	N° 215LP0003-00
	- Test report:	Page 1 to 5
	- List of modification:	Appendix 0 - Page 6
	- Composition of the separate technical unit:	Appendix 1/00 - Page 7
	- Range of application:	Appendix 2/00 - Page 8
	- Test results:	Appendix 3/00 - Page 9
2.	<b>Dossier du constructeur:</b> Report of the manufacturer:	N° Stoll AGA EA825/00
	- Manufacturer's information document:	Page 1 to 3
	- Attachments:	Refer to Appendices Page 3.
3.	<b>Autres documents annexés:</b> Other documents annexed:	Not applicable
4.	<b>Date de délivrance de l'homologation initiale:</b> Date of issue of initial type approval:	01.09.2021
5.	<b>Date de la dernière délivrance de pages révisées:</b> Date of last issue of revised pages:	Not applicable
6.	<b>Date de la dernière délivrance d'une homologation révisée:</b> Date of last extension:	Not applicable

Test Report No. 215LP0003-00

Vehicle type / Type : Stoll AGA EA825

Manufacturer : Stoll GmbH

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## TEST REPORT

according to: UN-Regulation No. 59

### Uniform provisions concerning the approval of replacement silencing system

as last amended by

02 series of amendments of the Regulation, Supplement 01

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#### Approval Status

EU type – approval : -

UN approval : -

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#### Structure of the Test Report

##### Item No.

- 0. General information
  - 1. Tested vehicle(s) / object(s)
  - 2. Test record
  - 3. Appendices
  - 4. Statement of conformity
- 

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Vehicle type / Type : Stoll AGA EA825  
 Manufacturer : Stoll GmbH

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**0. General information**

- 0.1. Make (trade name of the manufacturer) : Stoll GmbH
- 0.2. Type : Stoll AGA EA825
- 0.3. Category of vehicle : M1
- 0.4. Name and address of the manufacturer : Stoll GmbH  
 Porschestraße 1  
 79761 Waldshut-Tiengen  
 Germany
- 0.5. No. of the information document : Stoll AGA AE825/00  
 - Date of issue : 2021-08-04  
 - Date of last change : -

**1. Tested vehicle(s) / objects**

- 1.1. Description : The tests were performed in one series A
- 1.1.1. Test vehicle (A) : Test series A
- Make : Audi Sport GmbH
- Type(s) / variant s) / version (s) : AC / ADJPBQ2 /  
 AA8QA8D6012RS021E22S54BFBEM1H77FS
- General commercial description : RS6 Avant
- Identification number : WAUZZZF27MN901260
- Category of vehicle : M1
- Vehicle type approval number : e1\*2007/46\*1840\*04
- Power plant
- Manufacturer of engine : Audi AG
- Manufacturer's engine code : DJPB
- Rated maximum net power : 441 kW at 6000 min<sup>-1</sup>
- Mass in running order (m<sub>ro</sub>) : 2150 kg
- Power-to-mass ratio (PMR) : 205,12 (W/kg)
- Transmission : 7 speed – AT (DSG)
- 1.1.1.1. Condition of vehicle : ~~new, used~~, pretested
- Mileage : 7626 km

**Test Report No. 215LP0003-00**

**Vehicle type / Type** : **Stoll AGA EA825**  
**Manufacturer** : **Stoll GmbH**

1.2. Worst case configuration : There is no worst case selection applicable because all versions mentioned in the range of application (appendix 2/00) are tested.

1.2.1. The test vehicles were equipped with a new replacement silencer

Type : Stoll AGA EA825

Assembly silencers according appendix: 1/00

Test-series	Assembling	Tailpipe(s) Variant
A	01)02)1)2)3)	04

1.2.2. Remarks : All variants of the vehicle type as stated in appendix: 2/00, are covered by the tested vehicle version(s) and tested objects(s) respectively. Back to back comparison tests were carried out with vehicles with original silencers with variable geometries. The control of the NORESS was done via the original flap control of the series silencers.

## 2. Test record

2.1. Equipment for measuring and testing : The test facilities / measurement equipment used, were in compliance with the test requirements.

Acoustic measurements : Precision sound level meter meets the requirements described in IEC 61672 – 1:2002 class 1.

Manufacturer : Brüel & Kjaer  
 Type : 2250L  
 Serial No. : 30110320, 3028096

Sound Calibrator  
 Manufacturer : Brüel & Kjaer  
 Type : 4231  
 Serial no. : 2517924

Speed measurements : GPS/GLONASS Data logger 100 Hz  
 Manufacturer : Racelogic  
 Type : Vbox 3i-V5  
 Serial No. : 072768

Backpressure measurements : Each with nominal speed  
 Manufacturer : Xylem Analytics  
 Type : VAM 320  
 Serial No. : 15172710

Meteorological Instrumentation  
 Temperature measuring device : Testo 0572 1767, 0572 6172, 0628 7507  
 Barometric pressure measuring device  
 Relative humidity measuring device  
 Serial No. : 41002222, 20682129, ---

**Test Report No. 215LP0003-00**

**Vehicle type / Type** : **Stoll AGA EA825**  
**Manufacturer** : **Stoll GmbH**

- Wind speed-measuring device : Kaindl electronic, Windmaster 2  
 Serial No. : 0704-92046-4
- 2.1.1. Specification for the test site : Bastuck test track ISO 10844:2014  
 In der Hold  
 66822 Lebach  
 GPS: 49°25'35.9"N 6°54'5427.6"E

## 2.2. Test results

( ) numbering according to Annex 1 of the UNECE R59 02 series of amendments  
 [ ] numbering according to Annex 1 – appendix of the UNECE R59 02 series of amendments  
 { } numbering according to Annex 6 – Information for users and technical inspection

- 2.2.1. Test results referring to measurements : See Appendix 3/00

- 2.2.2. Test results of not measurable attributes

Additional specifications regarding sound absorbing fibrous material, used in exhaust silencing systems.

The design of replacement exhaust system uses fibrous materials. The exhaust gases are not in directly contact with the fibrous material, because the perforated pipes inside, are wrapped by stainless steel wool to prevent washing out the fibrous material.

- 2.3. Additional information : The results of the test refer exclusively to the object mentioned under section 1.1. of this report.

Test site : Lebach, Bastuck & Co. GmbH  
 Sulzbach, TÜV Saarland automobil GmbH

Test date

Test series were conducted : 2021-03-29, 2021-03-31 (Test series A)

Meteorological Conditions	Test series	
	A	
Test Site (surface characteristics)	Asphalt dry	
Temperatures of ambient air [°C]	11,7	23,3
Temperatures of test track surface [°C]	10,9	15,4
Barometric pressure [hPa]	998	991
Humidity [%]	59	34
Wind Speed [m/s]	0,6	0,4
Wind direction	W	SW
Background noise [dB(A)]	42	40

**3. Appendices**

- Appendix 0 : List of modification  
 Appendix 1/00 : Composition of the separate technical unit  
 Appendix 2/00 : Range of application  
 Appendix 3/00 : Test results

Information document



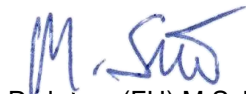
Vehicle type / Type : Stoll AGA EA825  
Manufacturer : Stoll GmbH

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#### 4. Statement of conformity

The in section 0.5. mentioned information document and the type described in that comply with the requirements mentioned on page 1. The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report. With regard to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

D-66820 Sulzbach, 2021-08-24



Dipl.-Ing. (FH) M.Schmitt  
Expert Technical Service

Vehicle type / Type : Stoll AGA EA825

Manufacturer : Stoll GmbH

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**List of modifications**

**Appendix 0**

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

**Composition of the separate technical unit**

No.	Component parts, dimensions in mm	Dimensions of parts in mm or original part / replacement part	Part-no or. / approval no.	See on drawing
01)	Front pipe	OE-part	-	-
02)	Catalyst / particulate trap	OE-part	-	-
1)	Front Silencer 1 Inlet pipe Ø 76 mm 1 Outlet pipe Ø 76 mm 1 Outlet pipe Ø 65 mm	Oval 240 x 190 x 300	MSD 13 76 400	201 001 103
2)	Front Silencer 1 Inlet pipe Ø 76 mm 1 Outlet pipe Ø 76 mm 1 Outlet pipe Ø 65 mm	Oval 240 x 190 x 300	MSD 13 76 400	201 001 104
3)	Rear Silencer 2 Inlet pipes Ø 65 mm 2 Outlet pipes Ø 65 mm	Oval 240 x 116 x 400	MSD 13 76 400	201 001 102
04)	Exhaust deflector AUDI	OE-part	4SO 215 237D 4SO 251 238D	-

**Remarks: -**

## Range of application

Data of the vehicles for which the exhaust replacement silencing system is intend; according UNECE R59, Annex 6, paragraph 1, {g}

No.	Manufacturer	Make	Tradename	Vehicle type and Approval no	Category of vehicle	Motor type/ working principle [PI / CI] <sup>1)</sup>	Engine capacity [cm <sup>3</sup> ]	Rated maximum net power [kW/min <sup>-1</sup> ]	Kind of transmission	Restriction <sup>2)</sup> concerning vehicles where the system can be mounted
( ) Numbering according to Annex 1, / [ ] Numbering according to Annex 1 - Appendix / { } Numbering according to Annex 6 of UNECE R59										
	[1.6.1]	[1.1]/{i}	(6)/[1.2]	(7)/[1.2], [1.5]/{ii, iii}	[1.4]	(8)/[1.6.2]/{iv}	(10)	(11)/[1.6.3]/{v}	[1.7.1] (12)/{vi}	[1.11]/{vii}
1.	Audi Sport GmbH	Audi	RS 6 Avant RS 7 Sportback	F2 e1*2007/46*1840*..	M1	DJPB / PI	3996	441 / 6000	AT	01)02)1)2)3)04)

## Remarks:

- 1) PI = Positive Ignition (Petrol Car) / CI = Compression Ignition (Diesel Car)  
 2) Composition of the separate technical unit. See Appendix: 1/00 of test report.