



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED <sup>(1)</sup>/~~APPROVAL EXTENDED <sup>(4)</sup>~~  
~~APPROVAL REFUSED <sup>(4)</sup>~~/~~APPROVAL WITHDRAWN <sup>(4)</sup>~~ TO A COMPONENT TYPE-APPROVAL  
CERTIFICATE IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM FOR A TYPE OF  
MOTORCYCLE PURSUANT TO COUNCIL DIRECTIVE 97/24/EC – CHAPTER 9 AS LAST  
AMENDED BY 2013/60/EU

EC Component type-approval No: e11\*97/24/9/III/2013/60\*0932\*00

Report No 15-00025-CM-MIL-00, by technical service TÜV SÜD Auto Service, date 13 October 2015

Reason(s) for extension: Not applicable

1. Make of exhaust: Termignoni
2. Type of exhaust: BW13
3. Name and address of manufacturer:  
Termignoni S.p.A.  
Via della Rampina 1  
15077 Predosa (AL)  
Italy
4. If applicable, name and address of the manufacturer's authorized representative:  
Not applicable
5. Make(s) and type(s) and any variant(s) or version(s) of the vehicle(s) for which the exhaust system is designed: See list enclosed
6. Date system submitted for testing: See enclosure
7. Component type-approval GRANTED/~~REFUSED~~:<sup>(1)</sup>

EAQ310674



8. Place: BRISTOL

9. Date: 30 OCTOBER 2015

10. Signature:



D LAWLOR  
Head of Technical Standards & Legislation

(1) Delete as appropriate





THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11\*97/24/9/III/2013/60\*0932\*00

**INFORMATION PACKAGE CONTENTS**

**INDEX REVISION NUMBER: Not applicable**

Total number of sheets: 07 (Seven)


Reasons for Revision: Not applicable

Revision date  
&  
Office stamp

EAQ310674

An executive agency of the Department for Transport  
April 2013 Revision 3



	<b>INFORMATION DOCUMENT</b> <b>N° BW13/97/24 rev. 00</b>	<b>Date: 09/06/2015</b> <b>Page 1/2</b>
---	---	--

***Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2013/60/EU)***

1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* BW13
3. *Name and address of manufacturer:* Termignoni S.p.A.  
via della Rampina, 1  
I-15077 Predosa (AL)
4. *Name and address of manufacturer's authorized representative:* Not applicable
5. *Parts list:* Notice enclosure 1 of the test report
6. *Make and motorcycle type of the field of application:* See list enclosed
7. *Restriction and instructions for installing:* Notice assembly manual and field of application

*Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2013/60/EU are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).*





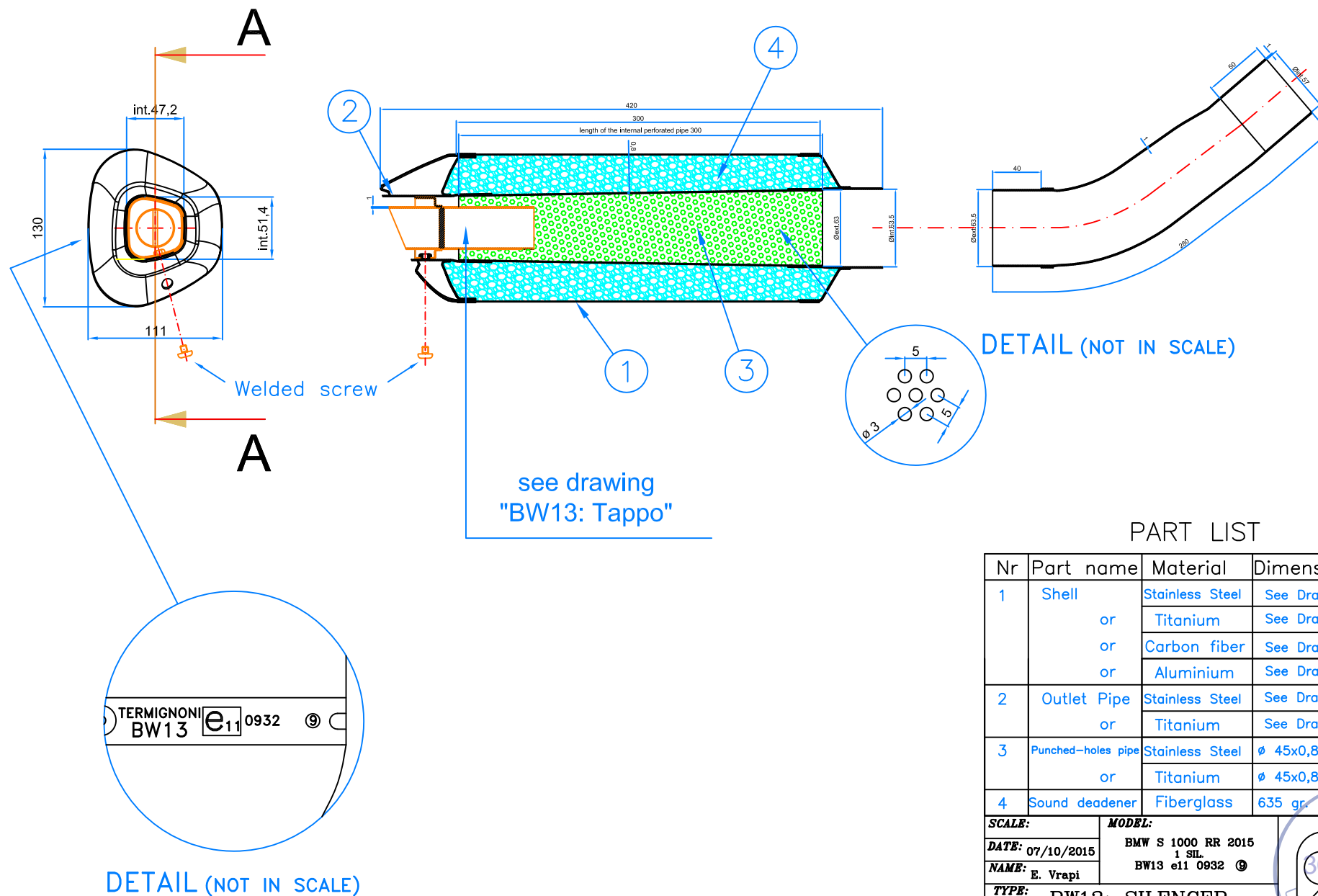
**INFORMATION DOCUMENT**  
**N BW13/97/24 rev. 00**

**Date: 09/0/2015**  
**Page 2/2**

***Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2013/60/EU)***

<i>Enclosures</i>	<i>Drawing no.</i>	<i>Date</i>
<i>Drawing of silencer</i>	BW13: Silencer	07/10/2015
<i>Drawing of reduction</i>	BW13: Tappo	07/10/2015
<i>Drawing of composition</i>	BW13: Assembly	07/10/2015
<i>List of vehicles</i>		
<i>Fitting instructions</i>		





## PART LIST

Nr	Part name	Material	Dimensions	QT
1	Shell	Stainless Steel	See Drawing	1x
	or	Titanium	See Drawing	1x
	or	Carbon fiber	See Drawing	1x
	or	Aluminium	See Drawing	1x
2	Outlet Pipe	Stainless Steel	See Drawing	1x
	or	Titanium	See Drawing	1x
3	Punched-holes pipe	Stainless Steel	$\varnothing$ 45x0,8	1x
	or	Titanium	$\varnothing$ 45x0,8	1x
4	Sound deadener	Fiberglass	635 gr.	1x

SCALE:

DATE: 07/10/2015

NAME: E. Vrapì

TYPE:

MODEL:

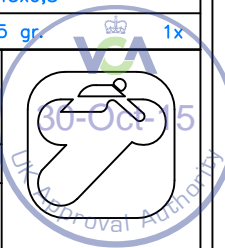
BMW S 1000 RR 2015

1 SIL.  
BW13 e11 0932 ⑨

BW13: SILENCER

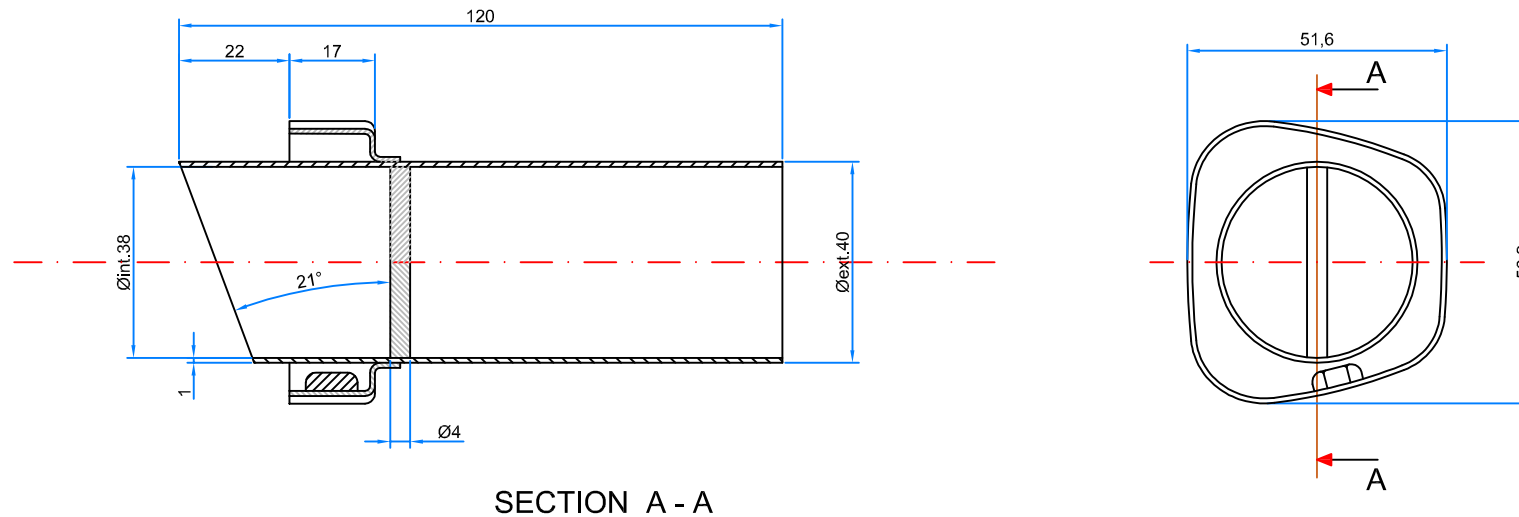
Termignoni

s.p.a.



General tolerance:  $\pm 1\text{mm}$

MATERIAL: S.Steel or Titanium



SCALA:

DATUM: 07/10/2015

NAME: E. Vrapì

Type:

BW13: Tappo

MODEL:

BMW S 1000 RR 2015  
1 Sil.  
BW13 e11 0932 ⑨

Cod. TERMIGNONI TER402R

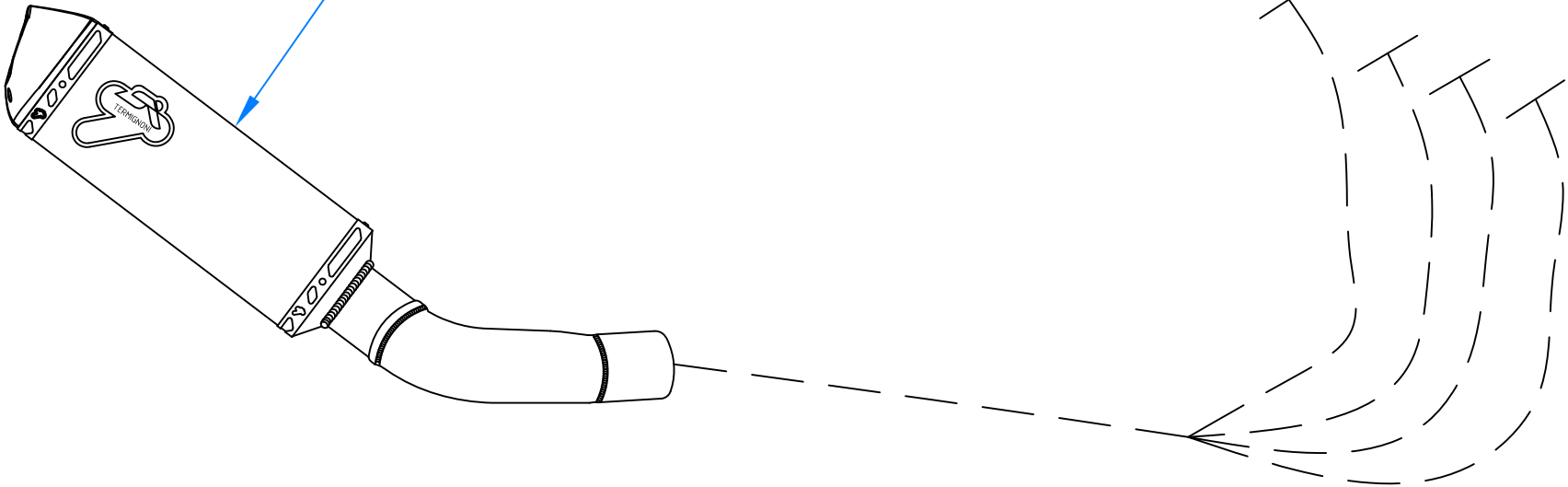
Termignoni

s.p.a.



**SILENCER**  
see drawing "BW13": Silencer"

**ORIGINAL COLLECTORS**



<b>SCALE:</b>	<b>MODEL:</b>
<b>DATE:</b> 07/10/2015	BMW S 1000 RR 2015
<b>NAME:</b> E. Vrapì	1 SIL.
	BW13 e11 0932 ⑨
<b>TYPE:</b>	BW13: ASSEMBLY

Termignoni s.p.a.





**INFORMATION DOCUMENT N° BW13/97/24 rev. 00 - List of the vehicles**

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm <sup>3</sup>	Rated maximum engine power in kW/min <sup>-1</sup>	Additional remarks:	Composition as shown in enclosure no. 1
1)	BAYERISCHE MOTOREN WERKE AG	BMW	S 1000 RR	K10 e1*2002/24*0421*	104EA	4-stroke	999	146,0 / 13500	with cat*	1) 2) 3) 4)
2)			HP4		104EC			142,0 / 13000		
3)			S 1000 R					118,0 / 11000		
4)			S 1000 XR							

\*) The original catalytic converter remain in the original exhaust system. A degradation of catalyst efficiency is not expected.





Termignoni s.p.a.  
Via della Rampina, 1  
15077 PREDOSA (AL) Italy  
Telef. +39 0131.71666  
Fax +39 0131.71696  
[www.termignoni.it](http://www.termignoni.it)  
Part. IVA - C.F. 00862780061  
Iscriz. C.C.I.A.A. AL 130295  
Iscriz. Tribunale Reg. Soc. 7721  
N. Export AL 009063  
C.C. IT 00862780061  
Cap. Soc. € 1.000.000,00 int. vers.

## **FITTING INSTRUCTIONS**

### **For Termignoni exhaust systems**

#### **A. Dismantling the original exhaust system**

1. Remove any casing impeding clear access
2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold

#### **B. Fitting Termignoni silencer(s)**

1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit the exhaust manifold
2. Attach the silencer(s) with the mounting(s) supplied with the vehicle, leaving the screws and bolts loose
3. Adjust the exhaust system so that when fully inserted it is at least 5 mm from any other component of the vehicle
4. Tighten all screws and bolts
5. Test the vehicle and check all connections, tightening the screws and bolts if necessary
6. After about 100 km check all the connections again and tighten the screws and bolts if necessary

#### **WARNING:**

Take care when working on the exhaust system after testing the vehicle since the surfaces could be very hot



Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

Page 1/6

## TEST REPORT

### No. 15-00025-CM-MIL-00

about a test of a non-original exhaust system or a component  
as a separate technical unit for motorcycles according to the directive of the Council of the  
European Community for adaptation to the laws of the Member States relating to the  
permissible sound level, pollution and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the amendment 2013/60/EU  
Concerning chapter 9, annex III

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval
<input type="checkbox"/>	Extension/correction to type approval no. --

Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

Page 2/6

**Reason for extension:**

It will be changed: Not applicable

It will be updated: Not applicable

**0. General information**

- 0.1. Make: TERMIGNONI
- 0.2. Type: BW13
- 0.2.1. Variants n.a.
- 0.3. Name and address of manufacturer: Termignoni S.p.A.  
Via della Rampina, 1  
I-15077 Predosa (AL)  
Italy
- 0.4. Name and address of authorized agent: n.a.
- 0.5. No. of information document: BW13/97/24 rev. 00  
Date: 13.10.2015
- 1.0. Class of the vehicles the unit is used for: L3e
- 1.1. Description of the vehicles  
the unit is used for: notice enclosure 2

**2. Composition of the separate technical unit**

- 2.1. Kind of technical unit: Non-original exhaust system, consisting out of one silencer on the right, maximum shape 130x111 mm and, total length 420 mm (with endcap), absorption-reflection principle with outlet pipe  $\varnothing$  38 mm according to drawings no. BW13: Silencer and no. BW13: Tappo, in combination with original header system. Aluminium-alternatively stainless steel alternatively titanium alternatively carbon fiber-cover.
- 2.2. Place of marking: On the silencer, see drawing:  
BW13: Silencer

Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

Page 3/6

2.3. Assembly of the exhaust system for testing  
(no. of parts, enclosure 1):

Notice 3.4

2.4. Position and direction of the tail pipe:

On the right side of the vehicle

### 3. Test report

The tests were carried out in 1 series A at 07/10/2015

#### 3.1. **Vehicle**

(0.1) Make: BMW

3.1.1. Type / Variant / Version: K10/0D10/A

3.1.1.1 Model: S 1000 RR

3.1.2. Manufacturer: BAYERISCHE MOTOREN WERKE AG

3.1.3. Homologation no.: e1\*2002/24\*0421\*

3.1.3.1 Extension: 06

3.1.4. Vehicle identification no.: \*WB10D1000FZ328451\*

3.1.5. Year of manufacture: 2015

3.1.6. Kilometers: 1412

3.1.7. Total weight: 204 kg

#### 3.2. **Engine**

3.2.1. Manufacturer: Notice 3.1.2

Trade name: BAYERISCHE MOTOREN WERKE AG

3.2.2. Type: 104EA

3.2.3. Engine capacity: 999 cm<sup>3</sup>

3.2.4. Rated maximum engine power: 146 kW at 13500 min<sup>-1</sup>

Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

Page 4/6

### 3.3. Transmission

- 3.3.1. Kind of transmission: Mechanical
- 3.3.4 Gearbox: 6 Speed
- 3.3.5. Transmission ratios:  
primary / final See point 3.1.3
- Top speed: See point 3.1.3
- Tires:  
front 120/70 ZR17M/C (58W)  
rear 190/55 ZR17M/C (75W)

### 3.4. Assembly of the exhaust system (no. of parts, enclosure 1):

1) 2) 3) 4)

### 3.5. Acoustic measurements

- 3.5.1. Manufacturer of the sound level meter: Brüel & Kjaer
- 3.5.2. Type of the sound level meter: 2236
- 3.5.3. Drive by noise, stationary noise:  
according to the Council Directive No. 97/24/EC with the amendment 2013/60/EU chapter 9 III.
- 3.5.4 Load condition during drive by test: Unloaded weight plus 80kg driver
- 3.5.5. Deviation at calibration: < 0.2 dB(A)

### 3.6. Power measurement

- 3.6.1. Testing of max. power with non-original exhaust system:

The tested max. power und the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)

---

Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

---

Page 5/6

3.6.2. Testing of top speed with non-original exhaust system:

Not applicable, because vehicle class: Motorcycle L3e

**3.7. Conditioning**

by pulsation

**3.8. Pollution Test**

Testing of pollution with aftermarket catalytic converter in combination with non-original exhaust system against the limits mentioned in 97/24/Chap. 5 Annex II, regarding the type approval of the test bikes.

**3.9. Test results**

- The results of
- 3.9.1. Noise testing
  - 3.9.2. Power measurement
  - 3.9.3. Top speed
- are attached in the enclosure.

All motorcycles with the same serial exhaust system and same or fewer performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.

- 3.9.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.
- 3.9.6. The general specifications concerning 97/24/EC capt.9 annex III point 3.5.1 were checked and fulfilled regarding the technical possibilities by the non-original exhaust system / technical unit.

**4. Enclosures**

Enclosure 1, Composition of the non original exhaust system  
Enclosure 2, Field of application  
Enclosure 3, Test results  
Information Document

Techn. Report No.: 15-00025-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: BW13

Page 6/6

## 5. Summary

The information folder as mentioned under No. 0.5 and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

Designated as Technical Service by:

Approval authority	Country	Registration-number	Actual scope list
Kraftfahrt-Bundesamt (KBA)	Deutschland/ Germany	KBA-P 00100-10	<a href="http://www.kba.de">www.kba.de</a>
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	<a href="http://ec.europa.eu/enterpri/se/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm">http://ec.europa.eu/enterpri se/sectors/automotive/appro val-authorities-technical- services/technical- services/index_en.htm</a>
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDWT-082-01	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	<a href="http://www.vsc.org.tw/English/Default.aspx">http://www.vsc.org.tw/Engli sh/Default.aspx</a>

München, 13.10.2015



Pietro Vergani  
Authorized Signatory



**ENCLOSURE 1**

**To test report no.**

**Type:**

**Manufacturer:**

**15-00025-CM-MIL-00**

**BW13**

**Termignoni S.p.A.**

**Composition of the original exhaust system + original parts**

Page 1/1

No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1)	Collectors and final body	Original part	--
2)	Catalytic converter	Original part	--
3)	Reduction	Notice drawing	Drawing BW13: Tappo
4)	Silencer (outlet pipe Ø 38 mm)	One silencer on the right, maximum shape 130x111 mm and, total length 420 mm (with endcap), absorption-reflection principle with outlet pipe Ø 38 mm	Drawing BW13: Silencer

## ENCLOSURE 2

To test report no.

Type:

Manufacturer:

15-00025-CM-MIL-00

BW13

Termignoni S.p.A.

### Field of application

Page 1/1

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm <sup>3</sup>	Rated maximum engine power in kW/min <sup>-1</sup>	Additional remarks:	Composition as shown in enclosure no. 1
1)	BAYERISCHE MOTOREN WERKE AG	BMW	S 1000 RR	K10 e1*2002/24*0421*	104EA	4-stroke	999	146,0 / 13500	with cat*	1) 2) 3) 4)
2)			HP4		142,0 / 13000					
3)			S 1000 R		104EC			118,0 / 11000		
4)			S 1000 XR							

\*) The original catalytic converter remain in the original exhaust system. A degradation of catalyst efficiency is not expected.

**ENCLOSURE 3**

**To test report no.**

**Type:**

**Manufacturer:**

**15-00025-CM-MIL-00**

**BW13**

**Termignoni S.p.A.**

**Test results**

Page 1/1

No. of vehicle	Engine power original kW/min <sup>-1</sup>	Engine power non original kW/min <sup>-1</sup>	Vmax original km/h	Vmax non original km /h	measure d in gear ratio	Limit Value **)	Original mea- sured	Non original measured	at km/h	Vehicle type hom.	Original mea- sured	Non original measured	at min <sup>-1</sup>
1) A*	146,0 / 13500	141,4 / 13500	-	-	2/3	80	78	77	50	99	99	98	6750

\*) *Test series*

\*\*) *Limit value of directive which was valid by vehicle type homologation*