THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED [1] 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 2009/108/EC.

EC Component type-approval No: e11*97/24/9/III*2009/108*0828*00

Report No: 12-00058-CM-MIL-00, by technical service: TÜV Italia S.r.l. TÜV SÜD Group,
date: 18 October 2012

Reason(s) for extension: Not applicable

1. Make of exhaust: Termignoni

2. Type of exhaust: BW11

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: 02 October 2012

7. Component type-approval GRANTED [1]

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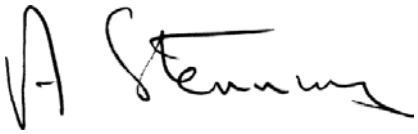
EAN264518

8. Place: BRISTOL

9. Date: 15 NOVEMBER 2012

10. Signature: 

A.W.STENNING
Head of Technical and Quality Support Group

(1) Delete as appropriate

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APPROVAL NUMBER: e11*97/24/9/III*2009/108*0828*00

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: Not applicable

Total number of sheets:	07 (Seven)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

Revision date
&
Office stamp

EAN264518

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TERMIGNONI	**INFORMATION DOCUMENT N° BW11/97/24 rev. 00**	**Date: 01/10/2012 Page 1/2**

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)

1.	*Make (trade name of manufacturer)*:	TERMIGNONI
2.	*Type and general commercial description:*	BW11
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 appication:*	*See list enclosed*
7.	*Restriction and instructions for installing:*	*Notice assembly manual and field of application*

Sachverständiger Prüflabor DIN EN ISO/IEC 17025 TÜV SÜD TÜV SÜD Automotive GmbH

Further details according to directive 97/24/EC, chapter 9, annex III, enclosure 2 A including amendment 2009/108/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).

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Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)

Enclosures	*Drawing no.*	*Date*
Drawing of rear silencer	BW11: SILENCERS	24/09/2012
Drawing of composition	BW11: ASSEMBLY	01/10/2012
Drawing of reduction	BW11: TAPPO	24/09/2012
List of vehicles		
Fitting instructions		

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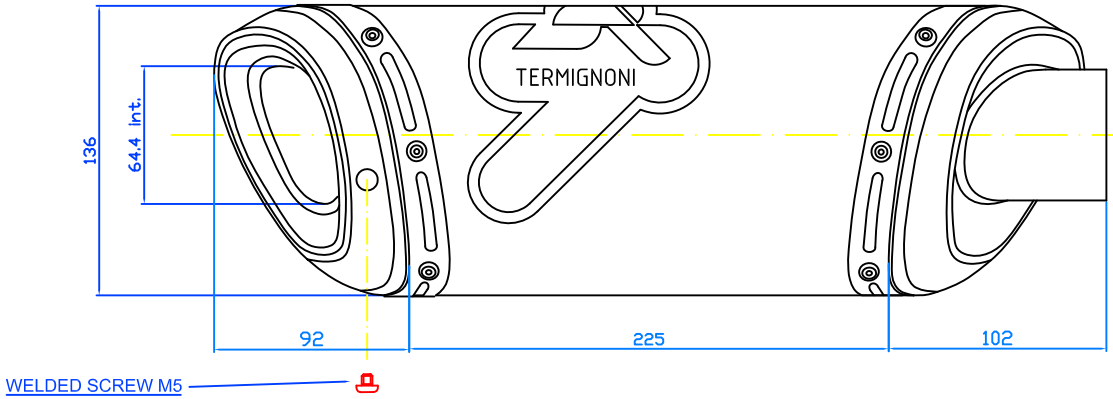
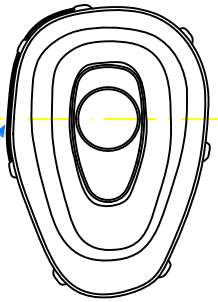
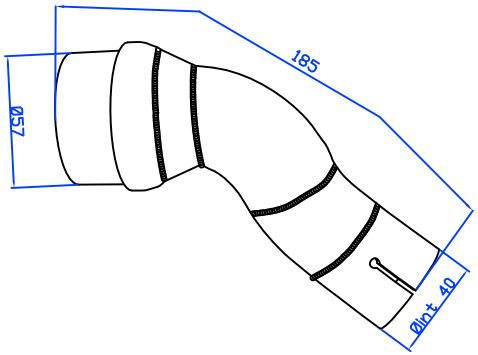
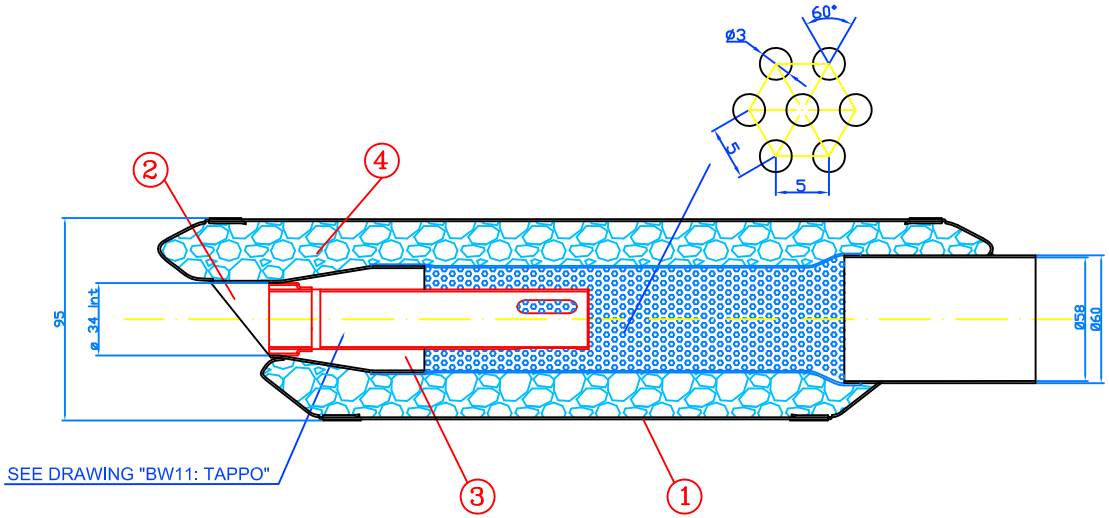
General tolerance: ±1mm





Punching position (inside):
Termignoni BW11 e11 0828 ⑨





PART LIST

Nr	Part name	Material	Dimensions	Qt.
1	Shell	Alluminium	Sp2mm x See draw	1x
	or	Carbon fiber	Sp1mm x See draw	1x
	or	Titanium	Sp0.6mm x See drawing	1x
	or	Stainless steel	Sp0.6mm x See drawing	1x
2	Outlet pipe	Stainless steel	SEE DRAWING	1x
	or	Titanium	SEE DRAWING	1x
3	Punched-holes pipe	Stainless steel	ø50x0,8	1x
	or	Titanium	ø50x0,8	1x
4	Soundproof	Fiberglass	232 g	1x

Scale:	
Date: 24.09.2012	Model: BMW 600C Sport 1 sil STR code BW11 BW11 e11 0828 ⑨
Name: M.Provera	
Type: BW11: SILENCERS	

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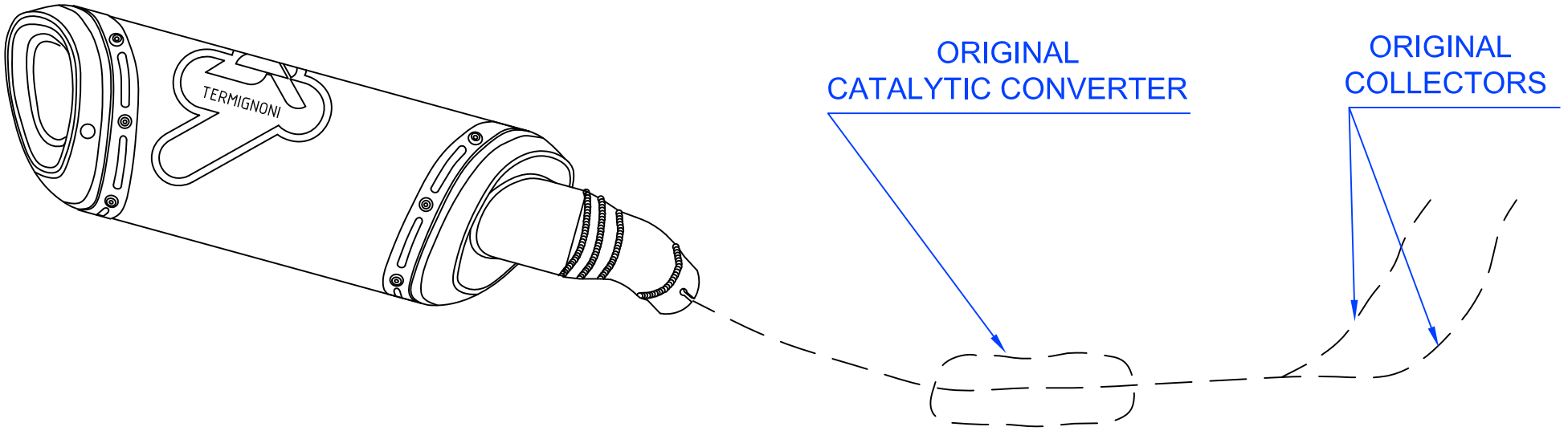
Material: Stainless steel or titanium



SCALE:	MODEL: BMW C 600 Sport Sil. str code BW11 BW11 e11 0828 ⑨
DATE: 01/10/2012	
NAME: C. Zappia	
TYPE: BW11: ASSEMBLY	

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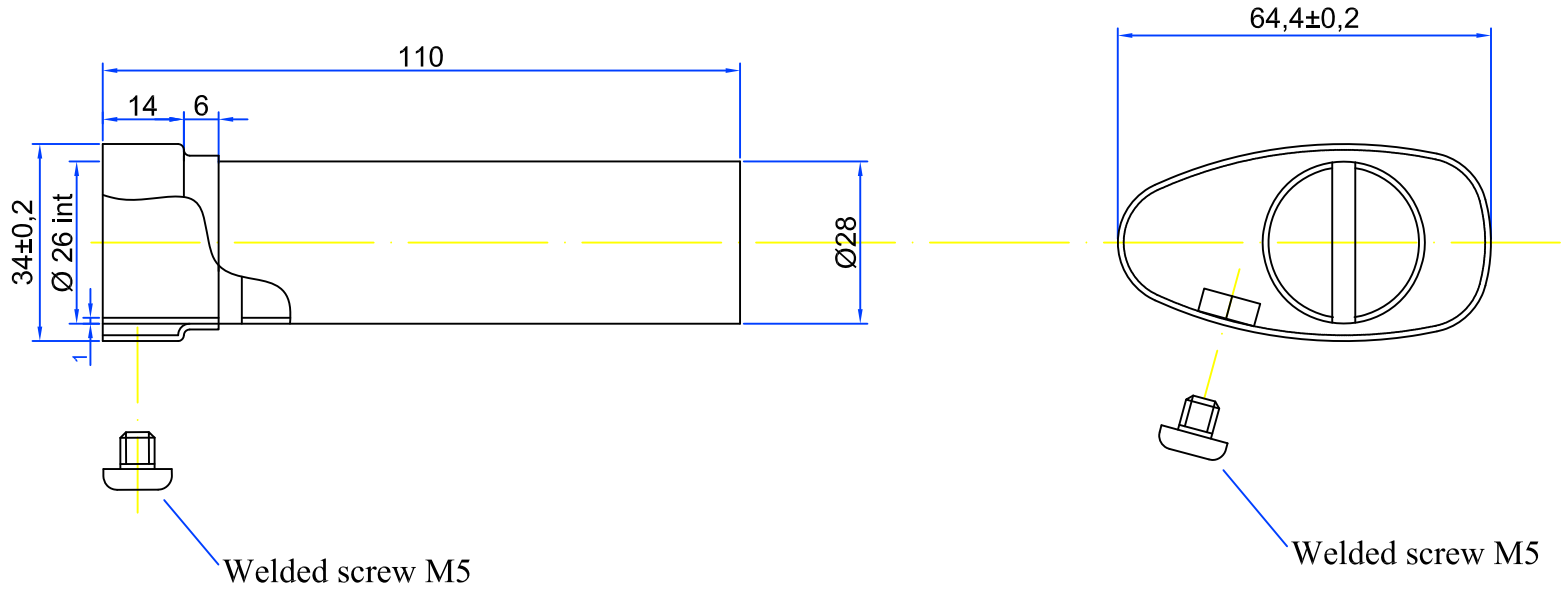
www.termignoni.it

MATERIAL: S.Steel or Titanium



SCALA:	MODEL: BMW 600C Sport
DATUM: 24.09.12	1 SIL BW11
NAME: M. Provera	BW11 e11 0828 ⑨
TYP: BW11: TAPPO	

Termignoni S.p.A.

info@termignoni.it

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Cod. TERMIGNONI TER271R

INFORMATION DOCUMENT N° BW11/97/24 rev. 00 - List of the vehicles

No. of ve-hicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	BAYERISCHE MOTOREN WERKE AG	BMW	C 600 Sport C 650 GT	C65 (e1*2002/24*0552)	652EA	4	647	44,0/7500	with cat *)	1) 2) 3) 4)

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

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Termignoni s.p.a.
Via della Rampina, 1
15077 PREDOSA (AL) Italy
Telef. +39 0131.71666
Fax +39 0131.71696
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

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TÜV SÜD Automotive GmbH
Westendstraße 199
D-80686 München

TEST REPORT
No. 12-00058-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 2009/108/EG
Concerning chapter 9, annex III

0. General information

0.1.	Make:	TERMIGNONI
0.2.	Type:	BW11
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: Date:	BW11/97/24 01.10.2012
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

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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 136x95 mm, length of silencer 419 mm (with endcap), absorption-reflection principle with an outlet pipe ∅ 26 mm according to drawings no. BW11: Silencers and no. BW11: 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 BW11: silencers
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 rear right side of the vehicle
2.5.	Test samples submitted for testing at:	02/10/2012

3. Test report

The tests were carried out in 1 series A on 02/10/2012

3.1. Vehicle

(0.1)	Make:	BMW
3.1.1.	Type / Variant / Version:	C65/0131/A
3.1.1.1	Model:	C 600 Sport
3.1.2.	Manufacturer	BAYERISCHE MOTOREN WERKE AG
3.1.3.	Homologation no.:	e1*2002/24*0552*
3.1.4.	Vehicle identification no.:	*WB1013109CZZ47631*
3.1.5.	Year of manufacture:	2012
3.1.6.	Kilometers:	3104
3.1.7.	Total weight:	249 kg

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3.2. Engine

3.2.1.	Manufacturer:	BAYERISCHE MOTOREN WERKE AG
	Trade name:	--
3.2.2.	Type:	652EA
3.2.3.	Engine capacity:	647 cm^3
3.2.4.	Rated maximum engine power:	44 kW at 7500 min^{-1}

3.3. Transmission

3.3.1.	Kind of transmission:	Automatic
3.3.4	Gearbox:	--
3.3.5.	Transmission ratios: primary / final	Notice vehicle homologation no. s. 3.1.3
	Top speed:	Notice vehicle homologation no. s. 3.1.3
	Tires: front rear	 120/70 R15 M/C 160/60 R15 M/C

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 2009/108/EC chapter 9 III.	
3.5.4	Load condition during drive by test:	Unloaded weight plus driver
3.5.5.	Deviation at calibration:	< 0.2 dB(A)

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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)

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.

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Westendstraße 199
D-80686 München

4. Enclosures

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

5. Summary

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2009/108/EG chapter 9, annex III.
There are no technical objections against granting an EC Type-approval.
The technical service is accredited for the named testing procedure by the Kraftfahrt-Bundesamt, Federal Republic of Germany, by the KBA-Accreditation.

München, 18.10.2012
The Expert

Pietro Vergani
Prüflabor DIN EN ISO/IEC 17025

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TÜV SÜD Automotive GmbH
Westendstraße 199
D-80686 München

E N C L O S U R E 1

To test report no. **12-00058-CM-MIL-00**
Type: **BW11**
Manufacturer: **Termignoni S.p.A.**

Composition of the non original exhaust system + original parts

No.	Components parts, dimensions in mm	Dimensions of the part in mm or original part / replacement part	Part no. or homologation no.
1)	Collectors	Original parts	--
2)	Catalytic converter	Original part	--
3)	Reduction	Notice drawing	BW11: Tappo
4)	Silencer (outlet pipes ∅ 26)	One silencer on the right, maximum shape 136x95 mm, length of silencer 419 mm (with endcap), absorption-reflection principle with an outlet pipe ∅ 26 mm	BW11: Silencers

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E N C L O S U R E 2

To test report no. **12-00058-CM-MIL-00**
Type: **BW11**
Manufacturer: **Termignoni S.p.A.**

Field of application

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	BAYERISCHE MOTOREN WERKE AG	BMW	C 600 Sport C 650 GT	C65 (e1*2002/24*0552)	652EA	4	647	44,0/7500	with cat *)	1) 2) 3) 4)

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

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D-80686 München

E N C L O S U R E 3

To test report no. **12-00058-CM-MIL-00**
Type: **BW11**
Manufacturer: **Termignoni S.p.A.**

Test results

No. of vehicle	*Engine power original kW/min^{-1}*	*Engine power non original* kW/min^{-1}	*Vmax original km/h*	*Vmax non original km /h*	*measured 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^{-1}*
1) A*	44,0/7500	43,1/7500	-	-	-	80	80	80	50	90	90	90	3750

*) *Test series*

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

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