



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL EXTENDED <sup>(1)</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 2009/108/EC.

EC Component type-approval No: e11\*97/24/9/III\*2009/108\*0723\*01

Report No: 14-00017-CM-MIL-00, by technical service: TÜV SÜD Auto Service GmbH, date: 19 May 2014

Reason(s) for extension: To cover

- 1) Updating vehicles list for which the exhaust system is designed
- 2) Updated documentation

1. Make of exhaust: Termignoni
2. Type of exhaust: KZ1
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 manufacturer's documentation
6. Date system submitted for testing: 19 May 2014
7. Component type-approval GRANTED <sup>(1)</sup>

8. Place: BRISTOL

9. Date: 18 JUNE 2014

10. Signature:  A.W.STENNING  
Head of Technical and Quality Support Group

(1) Delete as appropriate





THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11\*97/24/9/III\*2009/108\*0723\*01

**INFORMATION PACKAGE CONTENTS**

**INDEX REVISION NUMBER: 01 (One)**

Total number of sheets: 08 (Eight)

Reasons for Revision: See approval certificate

Revision date  
&  
Office stamp

EAQ301884

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



	<b>INFORMATION DOCUMENT</b> <b>N° KZ1/97/24 rev. 01</b>	<b>Date: 19/05/2014</b> <b>Page 1/2</b>
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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)***

1. *Make (trade name of manufacturer):* Termignoni
2. *Type and general commercial description:* KZ1
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 2009/108/EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).*



**INFORMATION DOCUMENT**  
**N° KZ1/97/24 rev. 01**

**Date: 19/05/2014**  
**Page 2/2**

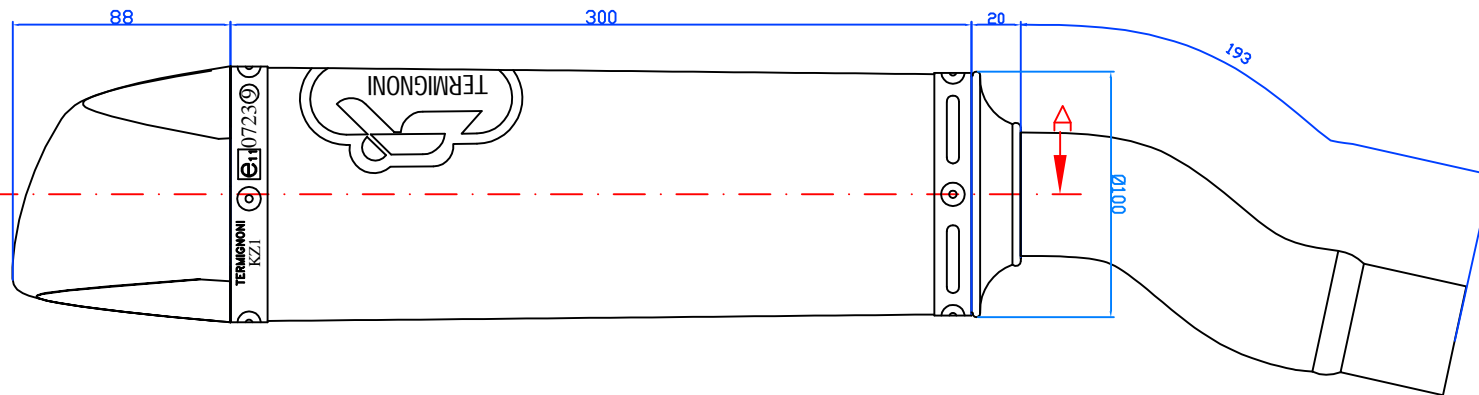
***Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2009/108/EC)***

<i>Enclosures</i>	<i>Drawing no.</i>	<i>Date</i>
<i>Drawing of rear silencers</i>	KZ1: SILENCER	15/07/2010
<i>Drawing of composition</i>	KZ1: ASSEMBLY	15/07/2010
<i>Drawing of right reduction</i>	KZ1: TAPPO DX	15/07/2010
<i>Drawing of left reduction</i>	KZ1: TAPPO SX	15/07/2010
<i>List of vehicles</i>		
<i>Fitting instructions</i>		

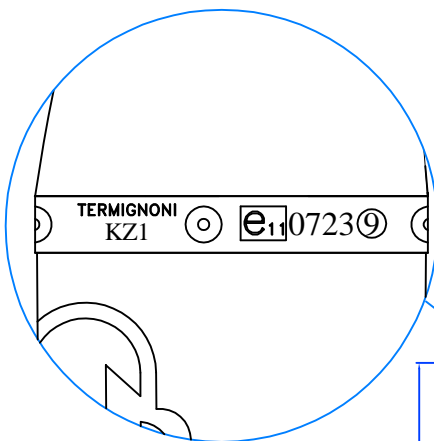


General tolerance:  $\pm 1\text{mm}$

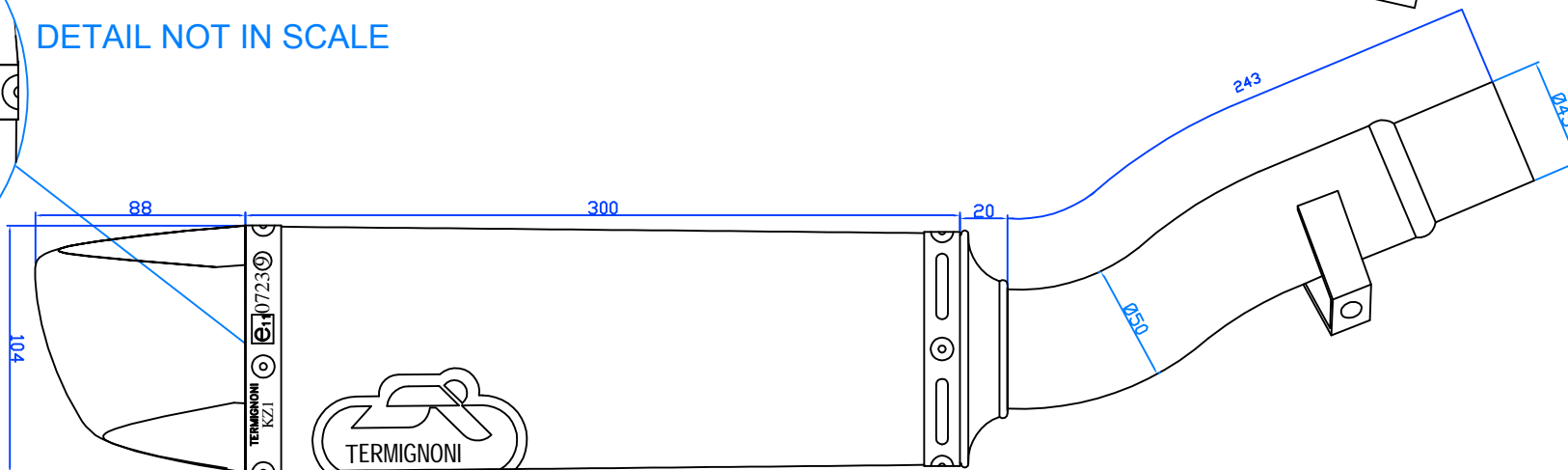
SX SILENCER



DETAIL NOT IN SCALE



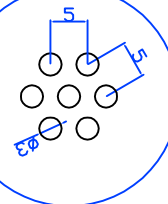
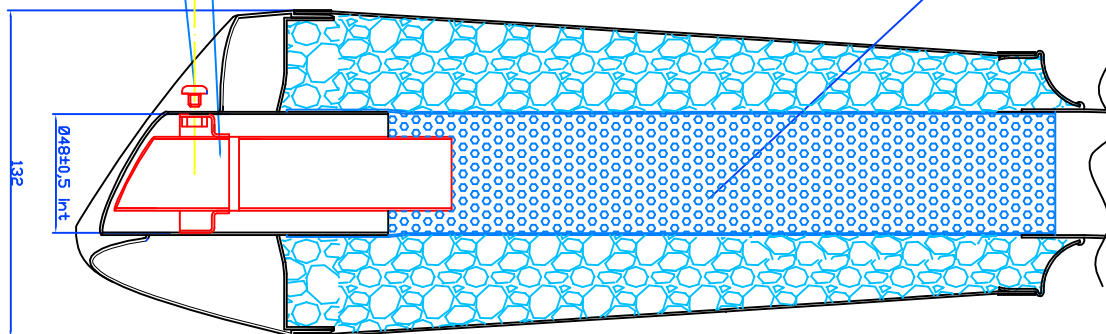
DX SILENCER



SECTION A-A Silencer SX (the Silencer DX is specular)

WELDED SCREW

SEE DRAWING "KZ1: TAPPO SX"



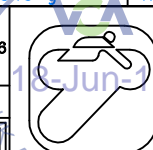
## PART LIST

Nr	Part name	Material	Dimensions	Qt.
1	Shell	Aluminium	Sp2mm x See drawing	1x
		or Carbon fiber	Sp1mm x See drawing	1x
		or Titanium	Sp0.6mm x See drawing	1x
		or Stainless steel	Sp0.6mm x See drawing	1x
		or Titanium	Sp0.6mm x See drawing	1x
2	Outlet pipe	Stainless steel	SEE DRAWING	1x
		Titanium	SEE DRAWING	1x
3	Punched-holes pipe	Stainless steel	ø50x0,8	1x
		Titanium	ø50x0,8	1x
4	Sound Deadener	Fiberglass	340 g	1x

Scale: Model: KAWASAKI Z 1000  
Date: 15.07.2010 2 Sil STR Code K068  
Name: D.Folci KZ1 e11 0723

Type: KZ1: SILENCER

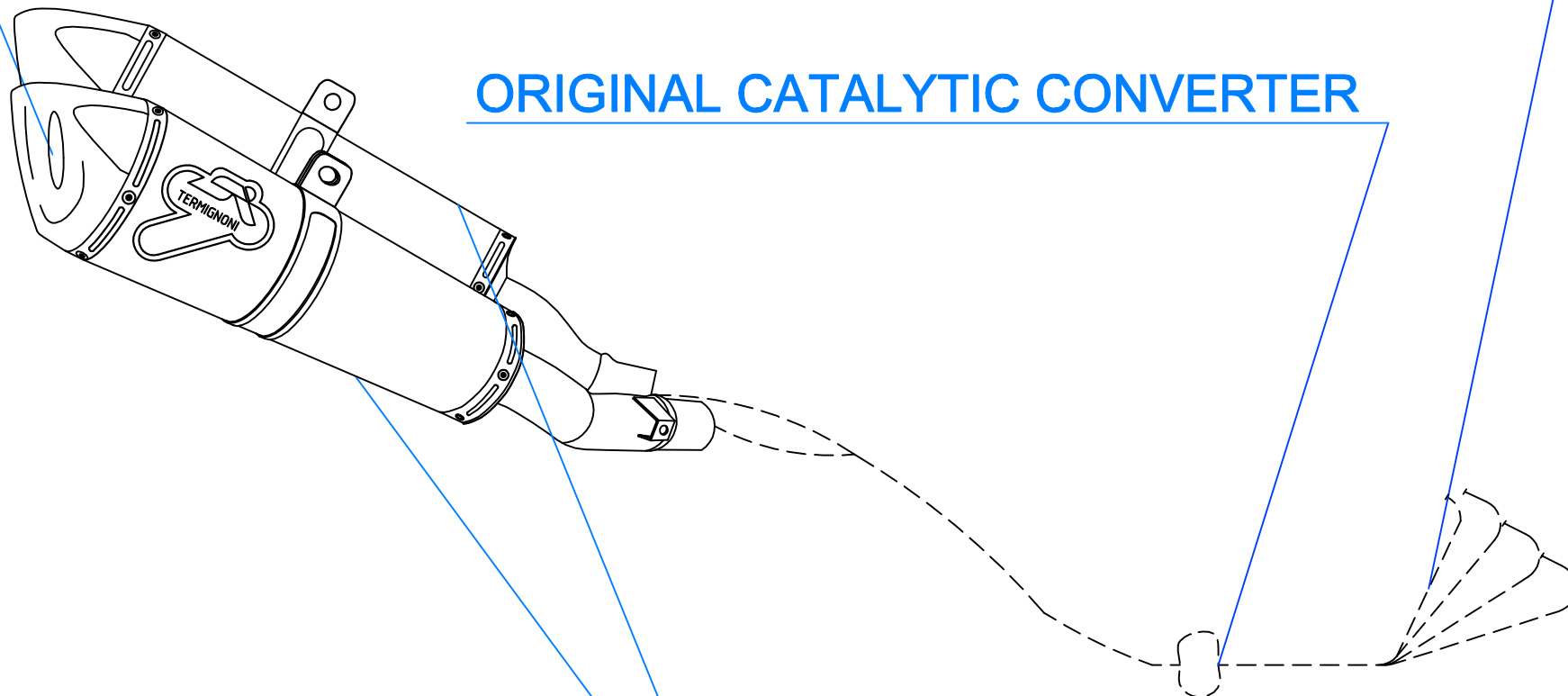
Termignoni S.p.a.




SEE DRAWING "KZ1: TAPPO DX" and "KZ1: TAPPO SX"

ORIGINAL COLLECTORS

ORIGINAL CATALYTIC CONVERTER



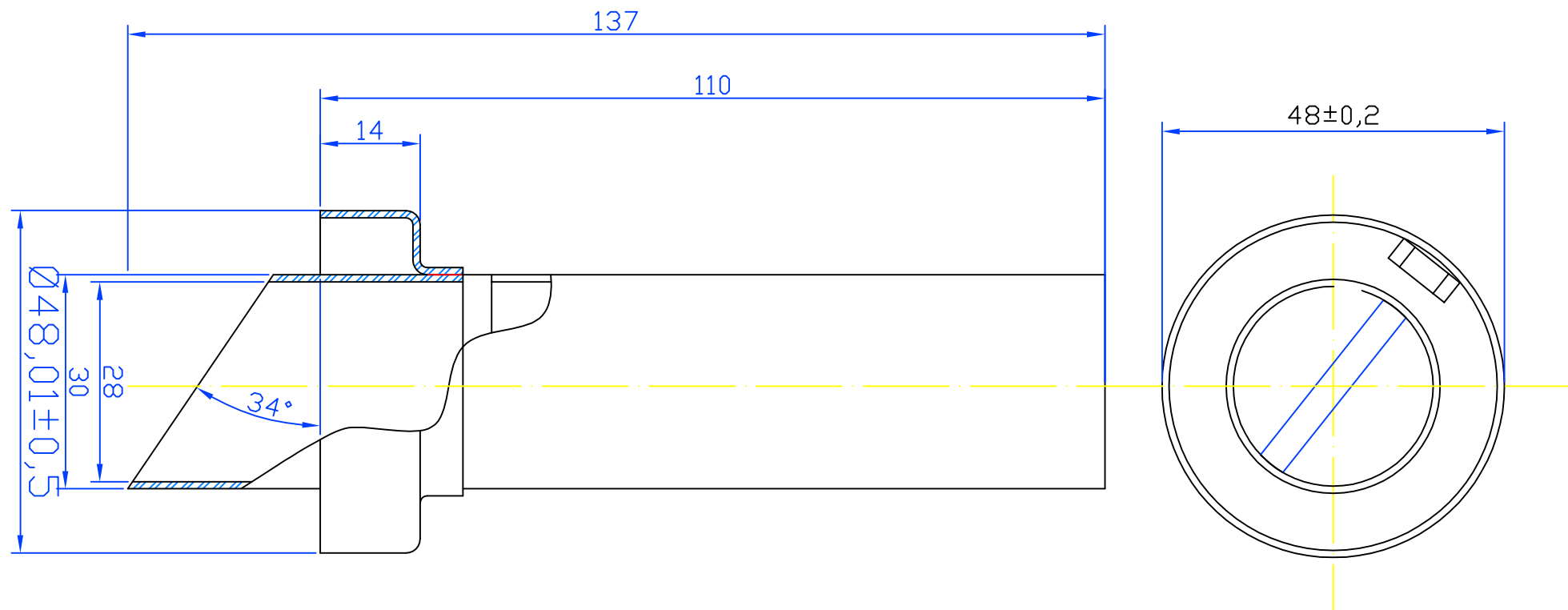
SEE DRAWING "KZ1: SILENCER"

<b>SCALE:</b>	<b>MODEL:</b>	 18-Jun-14 info@termignoni.it
<b>DATE:</b> 15.07.10	KAWASAKI Z 1000	
<b>DES:</b> D.Folci	2 sil STR code K066	
<b>TYPE:</b> KZ1: Assembly	KZ1 e11 0723 ⑨	

Termignoni S.p.A.

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

MATERIAL: S.Steel or Titanium



DX SILENCER

Cod. TERMIGNONI TER332R

SCALA:

DATUM: 15.07.2010

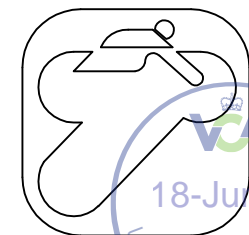
NAME: D.Folci

TYP: KZ1: TAPPO DX

MODEL:

KAWASAKI Z 1000  
2 SIL code K066  
KZ1 e11 0723 ⑨

Termignoni S.p.A.

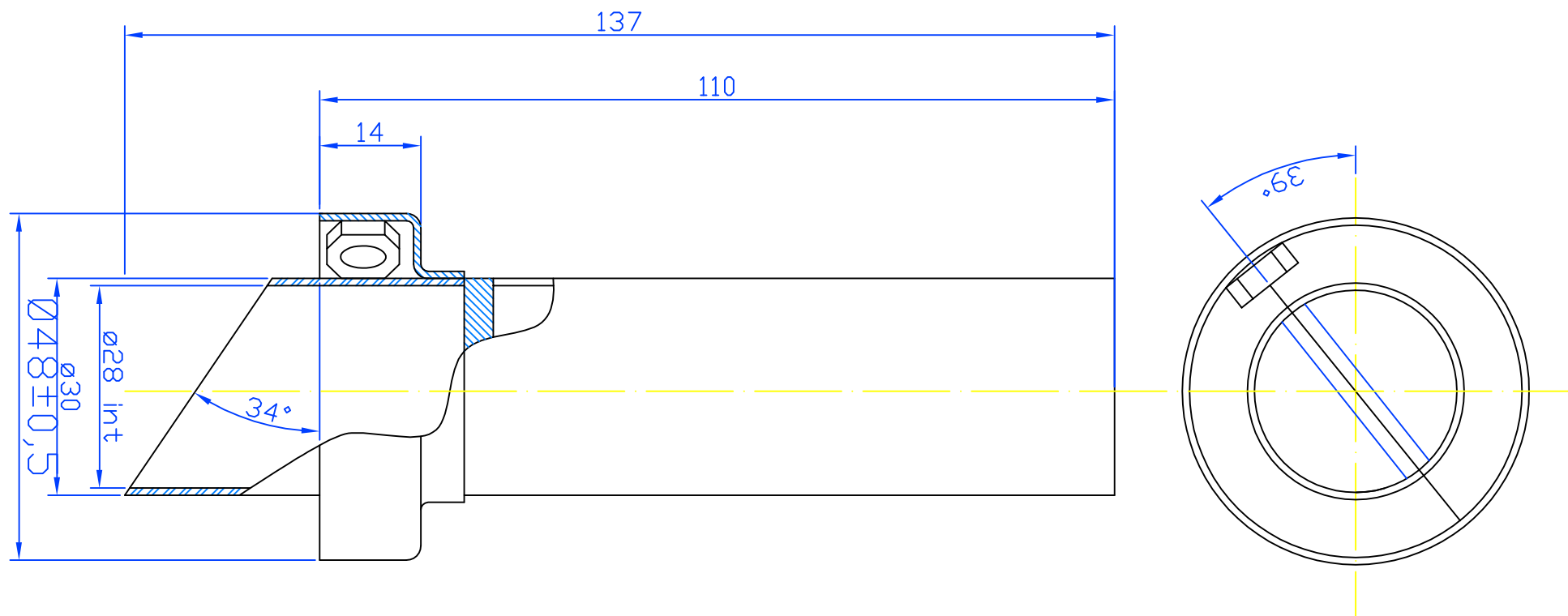


info@termignoni.it



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

MATERIAL: S.Steel or Titanium



SX SILENCER

Cod. TERMIGNONI TER352R

SCALA:

DATUM: 15.07.2010

NAME: D.Folci

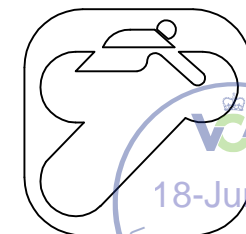
TYP: KZ1: TAPPO SX

MODEL:

KAWASAKI Z 1000  
2 SIL code K066  
KZ1 e11 0723 ⑨

Termignoni

S.p.A.



info@termignoni.it

**INFORMATION DOCUMENT N° KZ1/97/24 rev. 01 - 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)	Kawasaki Heavy Industries, Ltd.	KAWASAKI	Z1000 Z1000 ABS	ZRT00D (e4*2002/24* 2374*)	ZRT00DE	4-stroke	1043	101,5 / 9600	with cat *)	1) 2) 3) 4) 5)
2)			Z1000 SX Z1000 SX ABS	ZXT00G (e1*2002/24* 0486*)						
3)			Z1000 Z1000 ABS	ZRT00F (e4*2002/24* 3009*)				104,5 / 10000		
4)			Z1000 SX Z1000 SX ABS	ZXT00L (e4*2002/24* 0611*)						

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



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15077 PREDOSA (AL) Italy  
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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.: 14-00017-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: KZ1

Page 1/4

## TEST REPORT

### No. 14-00017-CM-MIL-00

(updating to No. 374 0022 10 ITA)

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

Approval status		
<input type="checkbox"/>	Granting of a type approval	
<input checked="" type="checkbox"/>	Extension/correction to type approval no.	e11*97/24*97/24/9/III*0723* 00

Techn. Report No.: 14-00017-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: KZ1

Page 2/4

### Reason for extension:

It will be changed: Not applicable  
It will be updated: The application list will be extended;  
Document updating.

### 0. General information

0.1. Make: TERMIGNONI  
0.2. Type: KZ1  
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: KZ1/97/24 rev. 01  
Date: 19.05.2014  
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: Technical unit, consisting out of two silencers left and right, cone log with elliptic final section: inlet section Ø 100 mm, final section main axle 132 mm, secondary axle 104 mm, total length 601 mm (left) and 651 mm (right); absorption-reflection- principle with an outlet pipe Ø 28 mm with covering pipe Ø 48 mm according to drawing KZ1: SILENCER, in combination with original header system. Aluminium-alternatively stainless steel alternatively titanium alternatively carbon fiber-cover.

Techn. Report No.: 14-00017-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: KZ1

Page 3/4

- 2.2. Place of marking: On the silencers, see drawing KZ1: SILENCER
- 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

### 3. **Test report**

New tests were not necessary, because the new vehicles are equipped originally with the same exhaust system as already tested vehicles with this type, and the noise and emission test results are comparable to the new vehicles.

#### 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.: 14-00017-CM-MIL-00  
Manufacturer: Termignoni S.p.A  
15077 Predosa (AL)  
Type: KZ1

Page 4/4

## 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".  
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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/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm">http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm</a>
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDW-99050009 01	
National Standards Authority of Ireland (NSAI)	Irland/ Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-1	<a href="http://www.vsc.org.tw/English/Default.aspx">http://www.vsc.org.tw/English/Default.aspx</a>

München, 19.05.2014



Pietro Vergani  
Authorized Signatory

**ENCLOSURE 1**

**To test report no.**

**Type:**

**Manufacturer:**

**14-00017-CM-MIL-00**

**KZ1**

**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	Original parts	--
2)	Reduction right	Notice drawing	Drawing KZ1: TAPPO DX
3)	Reduction left	Notice drawing	Drawing KZ1: TAPPO SX
4)	Silencer (outlet pipe Ø 28)	Two silencers left and right, cone log with elliptic final section: inlet section Ø 100 mm, final section main axle 132 mm, secondary axle 104 mm, total length 601 mm (left) and 651 mm (right); absorption- reflection-principle with an outlet pipe Ø 28 mm with covering pipe Ø 48 mm	Drawing KZ1: SILENCER
5)	Drawing of composition	Notice drawing	Drawing KZ1: ASSEMBLY



## ENCLOSURE 2

To test report no.  
Type:  
Manufacturer:

14-00017-CM-MIL-00  
KZ1  
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)	Kawasaki Heavy Industries, Ltd.	KAWASAKI	Z1000 Z1000 ABS	ZRT00D (e4*2002/24* 2374*)	ZRT00DE	4-stroke	1043	101,5 / 9600	with cat *)	1) 2) 3) 4) 5)
2)			Z1000 SX Z1000 SX ABS	ZXT00G (e1*2002/24* 0486*)						
3)			Z1000 Z1000 ABS	ZRT00F (e4*2002/24* 3009*)				104,5 / 10000		
4)			Z1000 SX Z1000 SX ABS	ZXT00L (e4*2002/24* 0611*)						

\*) 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:

14-00017-CM-MIL-00

KZ1

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	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 <sup>-1</sup>
1) A*	101,5 / 9600	101,5 / 9600	-	-	2 / 3	80	79	79,5	50	92	93	92	4800

\*) Test series

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