Kraftfahrt-Bundesamt

DE-24932 Flensburg

B a u a r t g e n e h m i g u n g s b o g e n

betreffend eine Nicht-Originalauspuffanlage für einen
Typ eines Kraftrads

C o m p o n e n t t y p e - a p p r o v a l c e r t i f i c a t e

in respect of a non-original exhaust system for a type of motorcycle

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Prüfbericht Nr. - Report No: **374-0068-06-ITA**

des Technischen Dienstes - by technical service:

des TÜV Italia S.R.L.
Bereich Automotive Engineering Center Mailand der TÜV SÜD Gruppe,
I-20099 Sesto san Giovanni

vom - date: **14.07.2006**

Nr. der Bauartgenehmigung: e1*97/24*2005/30/9/III*0642*00
Component type-approval No.:

1. Fabrikmarke der Anlage - Make of exhaust:
   Termignoni

2. Typ der Anlage - Type of exhaust:
   GR1

3. Name und Anschrift des Herstellers - Name and address of manufacturer:
   TERMIGNONI s.r.l.
   IT-15077 Predosa (AL)

4. Name und Anschrift des Beauftragten des Herstellers (falls zutreffend):
   If applicable, name and address of the manufacturer's authorized representative:
   entfällt
   not applicable

5. Fabrikmarke(n), Typ(en) und gegebenenfalls Varianten und Versionen des Fahrzeugs (der Fahrzeuge), für die die Anlage bestimmt ist -
   Make(s) and Type(s) and any variant(s) or version(s) of the vehicle(s) for which the exhaust system is designed:
   siehe Anlage 2 des Prüfberichts -
   see enclosure 2 of test report

Nummer der Genehmigung: e1*97/24*2005/30/9/III*0642*00
Approval No.:

6. Die Anlage wurde zur Prüfung vorgeführt am - Date system submitted for testing: **05.05.2006**

7. Die Bauartgenehmigung wird **erteilt**
Component type-approval **granted**

8. Ort - Place: **DE-24932 Flensburg**

9. Datum - Date: **16.08.2006**

10. Unterschrift: **Im Auftrag**
Signature:

R. Lindtner

KRAFTFAHRT-BUNDESAMT 413

(R. Lindtner)

Nummer der Genehmigung: e1*97/24*2005/30/9/III*0642*00
Approval No.:

Anlagen:
Enclosure:

1 Blatt Nebenbestimmungen und Rechtsbehelfsbelehrung
(Collateral clauses and instruction on right to appeal)

1 (Teil-)Beschreibungsbogen Nr. **MMC/97/24 rev. 00 (2 Blatt)** vom **13.07.2006**
mit Anlagen **(12 Blatt)**
(partical) description sheet No. **MMC/97/24 rev. 00 (2 sheet/s)** of **13.07.2006**
with enclosures **(12 sheet/s)**

1 Prüfbericht **(6 Blatt)** mit Anlagen **1 und 3 (2 Blatt)**
test report **(6 sheet/s)** with enclosures **1 and 3 (2 sheet/s)**

und – and

X Anlage **2** des Prüfberichts **(1 Blatt)**
enclosure **2** of test report **(1 sheet/s)**

Die mit "**X**" gekennzeichneten Anlagen sind der Benachrichtigung beigefügt.
Die übrigen Anlagen können von der Genehmigungsbehörde angefordert werden.
Enclosures marked by "**X**" are annexed to this communication. The other enclosures can be claimed at the administrative service.

Kraftfahrt-Bundesamt
DE-24932 Flensburg

Nummer der Genehmigung: e1*97/24*2005/30/9/III*0642*00
Number of the type approval:

- Anlage -

Nebenbestimmungen und Rechtsbehelfsbelehrung

Nebenbestimmungen

Jede Einrichtung, die dem genehmigten Typ entspricht, ist gemäß der angewendeten Vorschrift zu kennzeichnen.

Das Genehmigungszeichen lautet wie folgt:

e1
0642

Die Einzelerzeugnisse der reihenweisen Fertigung müssen mit den Genehmigungsunterlagen genau übereinstimmen. Änderungen an den Einzelerzeugnissen sind nur mit ausdrücklicher Zustimmung des Kraftfahrt-Bundesamtes gestattet.
Änderungen der Firmenbezeichnung, der Anschrift und der Fertigungsstätten sowie eines bei der Erteilung der Genehmigung benannten Zustellungsbevollmächtigten oder bevollmächtigten Vertreters sind dem Kraftfahrt-Bundesamt unverzüglich mitzuteilen.
Verstöße gegen diese Bestimmungen können zum Widerruf der Genehmigung führen und können überdies strafrechtlich verfolgt werden.

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Das Kraftfahrt-Bundesamt kann jederzeit die ordnungsgemäße Ausübung der durch diese Genehmigung verliehenen Befugnisse, insbesondere die genehmigungsgerechte Fertigung, nachprüfen. Es kann zu diesem Zweck nach den Regeln der zugrundeliegenden Vorschriften Proben entnehmen oder entnehmen lassen.

Die mit der Erteilung der Genehmigung verliehenen Befugnisse sind nicht übertragbar. Schutzrechte Dritter werden durch diese Genehmigung nicht berührt.

Rechtsbehelfsbelehrung

Gegen diese Genehmigung kann innerhalb eines Monats nach Bekanntgabe Widerspruch erhoben werden. Der Widerspruch ist beim **Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg,** schriftlich oder zur Niederschrift einzulegen.

Nummer der Genehmigung: e1*97/24*2005/30/9/III*0642*00
Approval No.:

- Attachment -

Collateral clauses and instruction on right to appeal

Collateral clauses

All equipment which corresponds to the approved type is to be identified according to the applied regulation.

The approval identification is as follows: - see German version -

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.
Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.
Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The Kraftfahrt-Bundesamt can at any time check the proper exercise of the conferred authority taken from this approval, in particular the approving standards. For this purpose, samples can be taken or have taken according to the rules of the underlying regulations.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Kraftfahrt-Bundesamt, Fördestraße 16,
DE-24944 Flensburg.**

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Automotive

TECHNICAL REPORT

No. 374 - 0068 - 06 - 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 and exhaust systems for two or three-wheel motor vehicles

No. ***97/24/EC*** *including the last amendment* ***2005/30/EC dated 22-Apr.-2005***
concerning ***Chapter 9, annex III***
Approval mark according to annex VI point 6.1.1

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Automotive

0. Technical description

0.1.	Make:	Termignoni
0.2.	Type:	**GR1**
0.2.1.	Variants:	01 (with CAP opt.1) 02 (with CAP opt.2) 03 (with CAP opt.3)
0.3.	Name and address of the manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	Not applicable
0.5.	Class of the vehicles the unit is used for::	Motorcycle - L3e (according to 2002/24/EC amended 2005/30/EC)

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Automotive

I. Test object(s)

1.1.	Description of the vehicles the unit is used for:	Notice enclosure b
1.2.	Identification number:	Prototype, approval mark according to annex VI point 6.1.1; marking after granting of EC Approval
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of one silencer left, cone log with maximum diameter 120 mm, length 616,5 mm (without endcaps), absorption- reflection- principle with outlet pipe ∅ 38 according to drawing no. GR1: SILENCER in combination with original header system. Equipped with three different caps, one for each variant according to drawings SILENCER CAP OPT 1, SILENCER CAP OPT 2, SILENCER CAP OPT 3.
1.2.2.	List of parts:	See Test Report
1.2.3.	Position of the marking:	On the silencer, see enclosure c1.
1.2.4.	Make Vehicles tested:	Moto Guzzi
1.2.5.	Material of the non-original exhaust system:	See Test Reports
1.3.	Remarks:	---

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Automotive

II. Test Report

2.1.	Test equipment:	The tests were effected with an equipment that corresponds to the test requirements
2.2.	Condition under which the above mentioned test Records have been achieved:	See Test Reports enclosure
2.2.1	Summary of the Test Records:	See Test Reports enclosure
2.3.	General information about the Tests:	
2.3.1.	Weather condition:	See Test Reports enclosure
2.3.2.	Place of the test:	See Test Reports enclosure
2.3.3.	Date of the test:	See Test Reports enclosure

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Automotive

III. Enclosures

a. Test Report
Composition of the non original exhaust system;
Field of application;
Test Records.

	Number	pages	date
1	374-0069-06-ITA	6	14/07/2006

b.	Information Document n° GR1/97/24 rev. 00	13/07/2006
c1.	Drawing GR1: SILENCER	13/06/2006
c2.1.	Drawing SILENCER CAP OPT 1	13/06/2006
c2.2.	Drawing SILENCER CAP OPT 2	13/06/2006
c2.3.	Drawing SILENCER CAP OPT 3	13/06/2006
C3.	Drawing GR1: TAPPO ØInt.38 - Loch Ø12,5	13/06/2006
c4.	Drawing CATALITIC CONVERTER	13/06/2006
c5.1.	GR1: ASSEMBLY WITH "CAP" OPT 1	13/06/2006
c5.2.	GR1: ASSEMBLY WITH "CAP" OPT 2	13/06/2006
c5.3.	GR1: ASSEMBLY WITH "CAP" OPT 3	13/06/2006

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Automotive

IV. Final confirmation

The named information document and the described type correspond to the Directive 97/24/EC chapter 9, annex III including the amendment 2005/30/EC. There are no technical objections against granting an EC Type-approval.

This technical report consists of sheet 1 to 6.

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

Recognised Expert
Emmanuel Nucci

pv Sesto San Giovanni (MI),
the 14.07.2006

162047

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Automotive

TEST REPORT

No. 374 - 0069 - 06 - 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 and exhaust systems for two or three-wheel motor vehicles

No. 97/24/EC including the last amendment 2005/30/EC dated 22-Apr.-2005 concerning chapter 9, annex III
Approval mark according to annex VI point 6.1.1

0. General information

0.1.	Make:	Termignoni
0.2.	Type:	**GR1**
0.2.1.	Variants:	01 (with CAP opt.1) 02 (with CAP opt.2) 03 (with CAP opt.3)
0.3.	Name and address of manufacturer:	Termignoni S.r.l. Via della Rampina, 16 I-15077 Predosa (AL)
0.4.	Name and address of manufacturer's authorized representative:	N.A.

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Automotive

0.5.	No. of information document: Date:	GR1/97/24 rev. 00 14/07/2006
1.0.	Class of the vehicles the unit is used for:	motorcycle - L3e (according to 2002/24/EC amended 2005/30/EC)
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 one silencer left, cone log with maximum diameter 120 mm, length 616,5 mm (without endcaps), absorption- reflection- principle with outlet pipe ∅ 38 according to drawing no. GR1: SILENCER in combination with original header system.
Equipped with three different caps, one for each variant according to drawings SILENCER CAP OPT 1, SILENCER CAP OPT 2, SILENCER CAP OPT 3.

2.2.	Place of marking:	on the silencers, see drawing GR1: 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 left side at the rear of the vehicle

3. Test report

The tests were carried out in 1 series A at 05/05/2006.

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Automotive

3. Test report (continuation)

Series A: (no. 1)

3.1. Vehicle

	(0.1)	Make:	Moto Guzzi
3.1.1.	(0.2.)	Type / variant / version:	LS / 0 / 00
3.1.2.	(0.5.)	Manufacturer	Moto Guzzi
3.1.3. 3.1.3.1		Homologation no.: Extension:	e11*2002/24*0211 01
3.1.4.		Vehicle identification no.:	*ZGULS00065M111527*
3.1.5.		Year of manufacture:	2006
3.1.6.	(2.1)	Weight of the vehicle:	240 kg

3.2. (3.) Engine

3.2.1.	(3.0.)	Manufacturer:	notice 3.1.2
	(3.1.)	Make:	Moto Guzzi
3.2.2.	(3.1.1)	Type:	KS
3.2.3.		Engine capacity:	1064 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	64,8 kW at 7600 min^{-1}

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Automotive

3. Test report (continuation)

3.3. (4.) Transmission

	(4.1)	Drawing of transmission:	notice vehicle homologation no. s. 3.1.3.
3.3.1.	(4.2)	Kind of transmission:	mechanical
	(4.3)	Clutch (kind):	double disc dry type
	(4.4)	Gearbox	
3.3.2.	(4.4.1)	Kind	mechanical
	(4.4.2)	Kind of activity:	foot shifted
3.3.4.		No of gears	6
3.3.5.	(4.5.)	Transmission ratios: primary / final	1:1,458 / 1:3,666
	(4.6.)	Top speed:	195 km/h
	(5.2.)	Tires:	
		front	120/70 ZR17 58W
		rear	180/55 ZR17 73W
3.4.		assembly of the exhaust system (no. of parts, enclosure 1):	1.0., c1., c2.1, c3., c4., c5.1 (for variant 01) 1.0., c1., c2.2, c3., c4., c5.2 (for variant 02) 1.0., c1., c2.3, c3., c4., c5.3 (for variant 03)

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3.5. Power measurement

3.5.1. The tested max. power and the engine speed are in the ± 5% tolerance in comparison with the original exhaust system.

3.5.2. Testing of top speed with non-original exhaust system:
Not applicable, because vehicle class : motorcycle

3.6. Conditioning

by pulsation

3.7. Test results

The results of
3.7.1. Sound testing
3.7.2. Power measurement
3.7.3. Top speed
3.7.4. Emission test
are attached in the enclosure 3.
The results of the sound tests with the original and non original exhaust systems fulfil point 3.5.2.1.1 of Directive 97/24/EC chapter 9, including last amendment 2005/30/EC. 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.

3.7.5. The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.

3.7.6. The general specifications concerning point 3.5.1 of Directive 97/24/EC Chapter 9 (including last amendment 2005/30/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

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Automotive

4. Enclosures

Enclosure 1, Composition of the non original exhaust system (Page 1)

Enclosure 2, Field of application (Page 1)

Enclosure 3, Test results (Page 1)

5. Summary

The named information document and the described type correspond to the Directive 97/24/EC including the amendment 2005/30/EC chapter 9, annex III.
There are no technical objections against granting an EC Type-approval.

This test report contains the pages 1 to 6 and enclosures

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

Recognised Expert
Emmanuel Nucci

pv Sesto San Giovanni (MI),
the 14.07.2006

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Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0069-06-ITA**
Type: **GR1**
Manufacturer: **Termignoni S.r.l.**

Composition of the 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.
1.0.	header pipes	original parts	-
c1.	rear silencer	cone log with maximum diameter 120 mm; length without endcaps 616,5 mm	Drawing GR1: SILENCER
c2.1.	drawing of composition option 1	notice drawing	Drawing GR1: ASSEMBLY WITH "CAP" OPT 1
c2.2.	drawing of composition option 2	notice drawing	Drawing GR1: ASSEMBLY WITH "CAP" OPT 2
c2.3.	drawing of composition option 3	notice drawing	Drawing GR1 ASSEMBLY WITH "CAP" OPT 3
c3.	reduction	notice drawing	Drawing GR1: TAPPO ØInt.38 - Loch Ø12,5
c4.	catalytic converter	notice drawing	Drawing CATALYTIC CONVERTER
c5.1.	cap option 1	notice drawing	Drawing SILENCER CAP OPT 1
c5.2.	cap option 2	notice drawing	Drawing SILENCER CAP OPT 2
c5.3.	cap option 3	notice drawing	Drawing SILENCER CAP OPT 3

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Automotive

E N C L O S U R E 2 ***to test report no.*** **374-0069-06-ITA**
Type: **GR1**
Manufacturer: **Termignoni S.r.l.**

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^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	Moto Guzzi	Moto Guzzi	Griso 1100	LS (e11*2002/24*0211*01)	KS	4-stroke	1064	64,8/7600	with cat.	1.0., c1., c2.1, c3., c4., c5.1 (for variant 01); 1.0., c1., c2.2, c3., c4., c5.2 (for variant 02); 1.0., c1., c2.3, c3., c4., c5.3 (for variant 03)
2)					KP					
3)			Griso 900		A1		877	55,0/7800		

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0069-06-ITA**
Type: **GR1**
Manufacturer: **Termignoni S.r.l.**

Test results

- Noise and Power Test

					Sound levels driving vehicle in dB(A)					Sound levels stationary vehicle in dB(A)			
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*	52,58/7700	53,92/7600	-	-	2 / 3	80	81,00	80,00	50	88	91	88	3800

*) test series

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

- Emission Test

Test Type I

Emission of gaseous pollutants in an urban cycle.

	CO [g/km]	HC [g/km]	NOx [g/km]	equivalent inertia [kg]
Test 1	1,456	0,195	0,061	320
Test 2	1,051	0,138	0,061	320
Test 3				
Arithmetic mean	1,253	0,166	0,061	320
% of limit	62,7	0,3	40,6	
limits	2,0	0,3	0,15	

Test Type II

Emission of Carbon monoxide and hydrocarbon at normal idling speed:

Engine revolution [min^{-1}]	CO [%]	HC [ppm]	Oil temperature [K]
1100 ± 50	0,05	120	360
2200 ± 50	0,05	120	360

Note: the 3 differents variants tested give the same test results

TERMIGNONI	**INFORMATION DOCUMENT** **N° MMC/97/24 rev. 00**	**Date: 13/07/2006** **Page 1/2**

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97 / 24 / EC amended 2005 / 30 / EC)

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

1.	*Make (trade name of manufacturer):*	Termignoni
2.	*Type and general commercial description:*	GR1
3.	*Name and address of manufacturer:*	Termignoni S.rl. via della Rampina, 16 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*

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

Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97 / 24 / EC amended 2005 / 30 / EC)

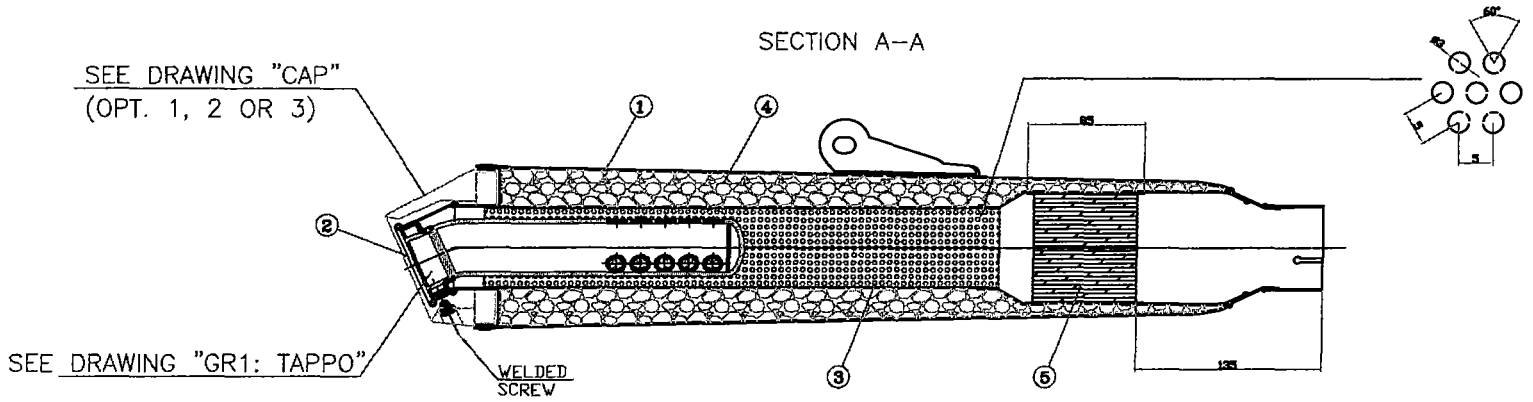
Enclosures:

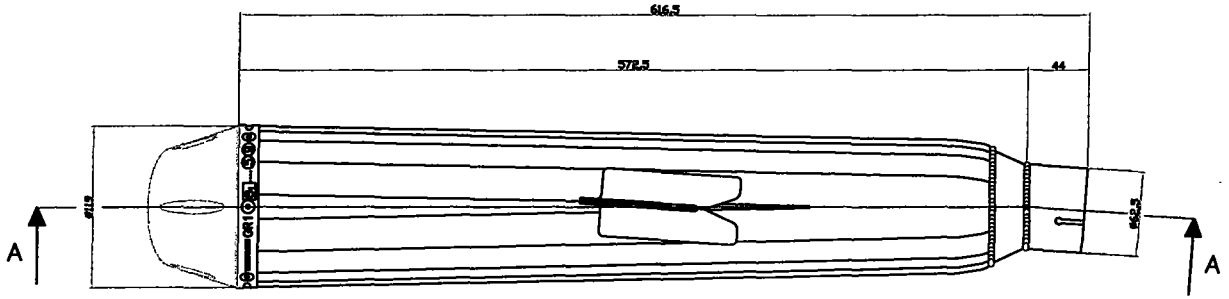
		drawing no.	*date*
c1.	*Drawing of rear silencer*	GR1: SILENCER	13/06/2006
c2.1.	*Drawing of composition*	GR1: ASSEMBLY WITH "CAP" OPT 1	13/06/2006
c2.2.	*Drawing of composition*	GR1: ASSEMBLY WITH "CAP" OPT 2	13/06/2006
c2.3.	*Drawing of composition*	GR1: ASSEMBLY WITH "CAP" OPT 3	13/06/2006
c3.	*Drawing of reduction*	GR1: TAPPO ØInt.38 - ØLoch 12,5	13/06/2006
c4.	*Drawing of catalyst*	CATALYTIC CONVERTER	13/06/2006
c5.1	*Drawing of cap*	SILENCER CAP OPT 1	13/06/2006
c5.2	*Drawing of cap*	SILENCER CAP OPT 2	13/06/2006
c5.3	*Drawing of cap*	SILENCER CAP OPT 3	13/06/2006
c6.	*List of vehicles*		
c7.	*Fitting instructions*		

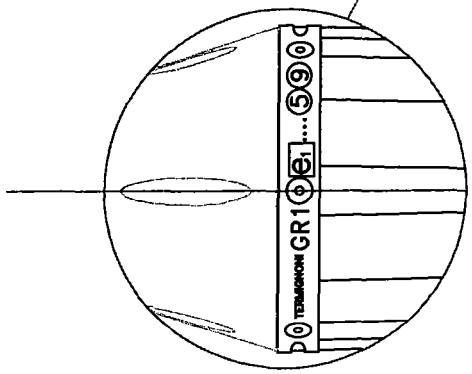
INFORMATION DOCUMENT N° MMC/97/24 rev. 00 - List of the vehicles

No. of vehicle	Manufacturer	Make	Commercial name	Vehicle type (and no. of homologation)	Engine type	Stroke	Engine capacity in cm^3	Rated maximum engine power in kW/min^{-1}	Additional remarks:	Composition as shown in enclosure no. 1
1)	Moto Guzzi	Moto Guzzi	Griso 1100	LS (e11*2002/24* 0211*01)	KS	4-stroke	1064	64,8/7600	with cat.	1.0., c1., c2.1, c3., c4., c5.1 (for variant 01);
2)					KP					1.0., c1., c2.2, c3., c4., c5.2 (for variant 02);
3)			Griso 900		A1		877	55,0/7800		1.0., c1., c2.3, c3., c4., c5.3 (for variant 03)

SECTION A–A







DETAIL

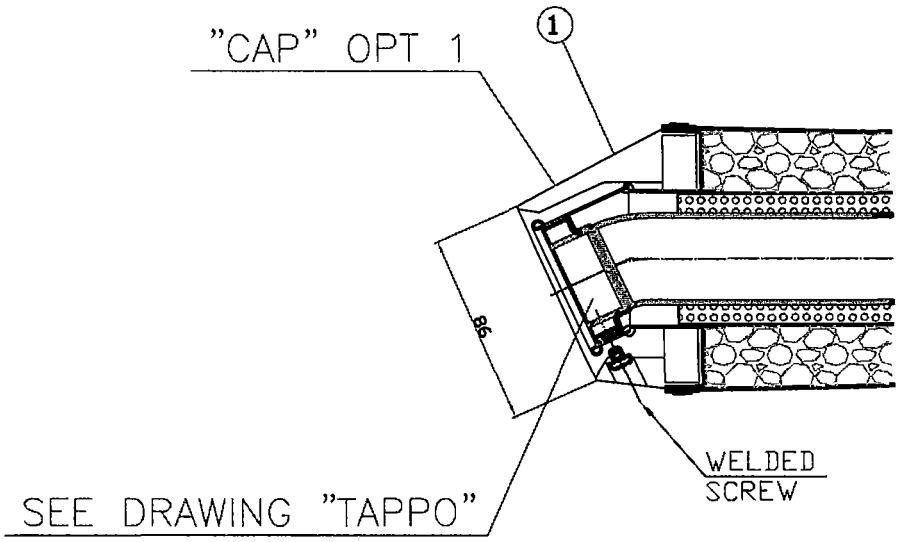
PART LIST

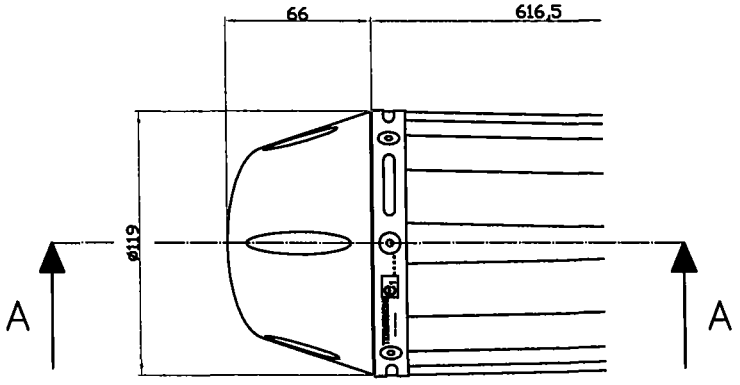
Nr	Part name	Material	DImensions	Qt.
1	Shell	Stainless Steel	See drawing	1x
	or	Titanium	See drawing	1x
2	Outlet Pipes	Stainless Steel	ø 60x1– See dwg.	1x
	or	Titanium	ø 60x1– See dwg.	1x
3	Punched–holes pipe	Stainless Steel	ø 60x0.8	1x
	or	Titanium	ø 60x0.8	1x
4	Sound deadener	Fiberglass	500 gr.	1x
5	Catalytic Conv.	Stainless Steel	ø 82x85	1x

SCALE: 1:1
DATE: 13/06/06
NAME: I.CAVALLARO
Model: GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
Type: GR1: SILENCER

Termignoni s.r.l.

SECTION A–A





PART LIST

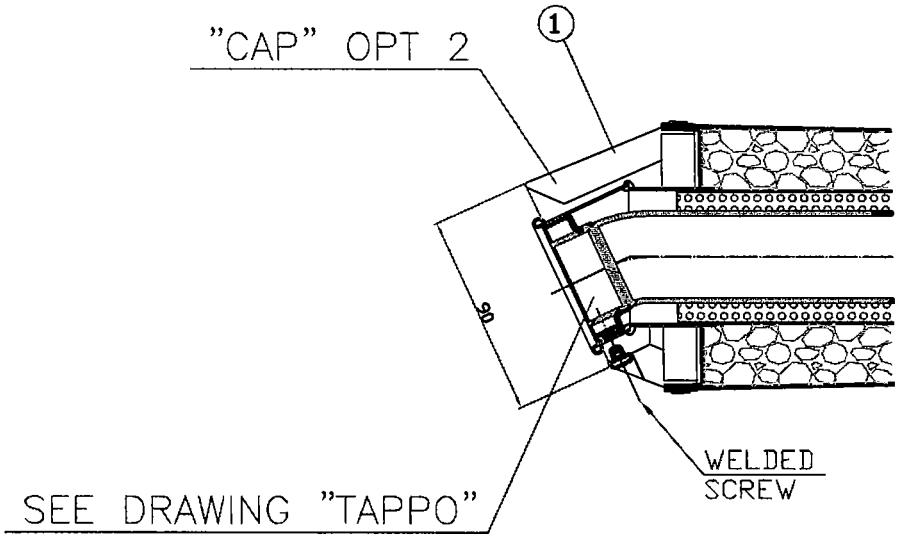
Nr	Part name	Material	DImensions	Qt.
1	Cap	Aluminium	See drawing	1x

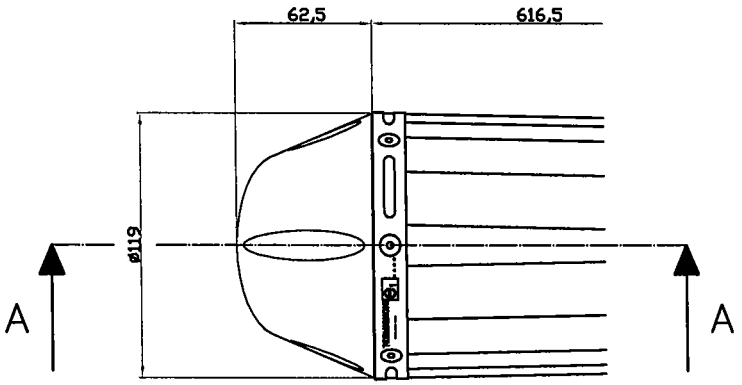
SCALE: 1:1	***Type:*** GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
DATE: 13/06/06	
NAME: I.CAVALLARO	

SILENCER CAP OPT 1

Termignoni s.r.l.

SECTION A–A





PART LIST

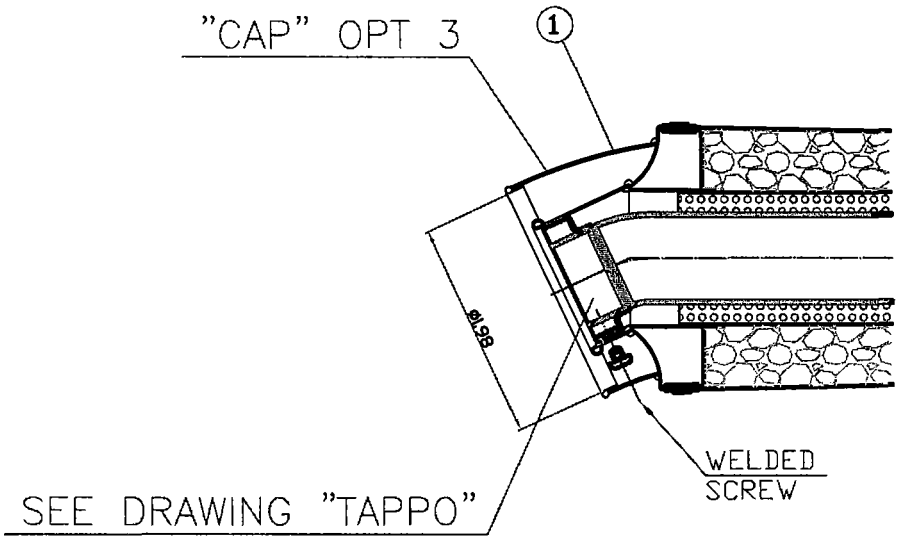
Nr	Part name	Material	DImensions	Qt.
1	Cap	Aluminium	See drawing	1x

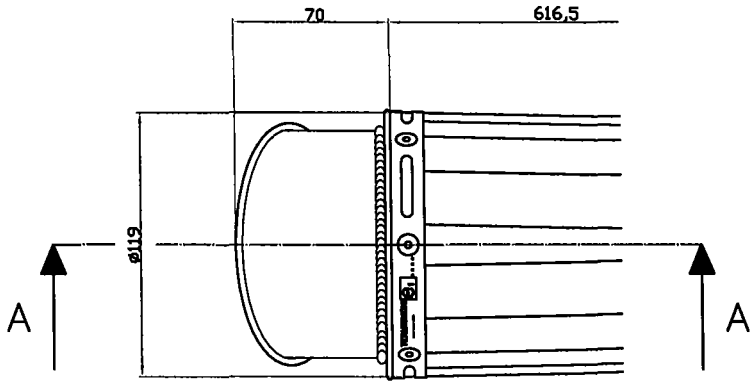
SCALE: 1:1	***Type:*** GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
DATE: 13/06/06	
NAME: I.CAVALLARO	

SILENCER CAP OPT 2

Termignoni s.r.l.

SECTION A–A





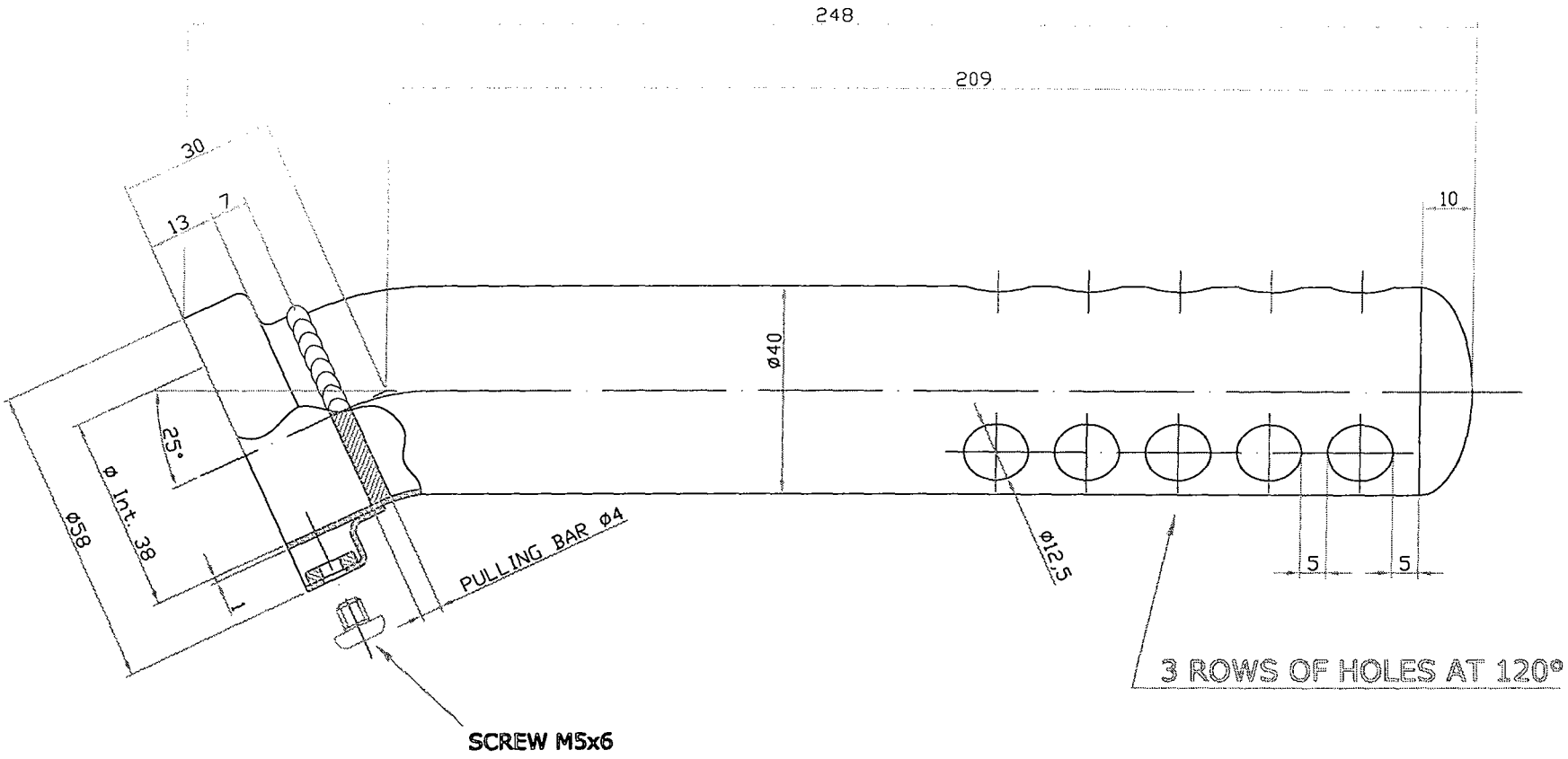
PART LIST

Nr	Part name	Material	DImensions	Qt.
1	Cap	Stainless Steel	See drawing	1x
	or	Titanium	See drawing	1x

SCALE: 1:1	***Type:*** GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
DATE: 13/06/06	
NAME: I.CAVALLARO	

SILENCER CAP OPT 3

Termignoni s.r.l.

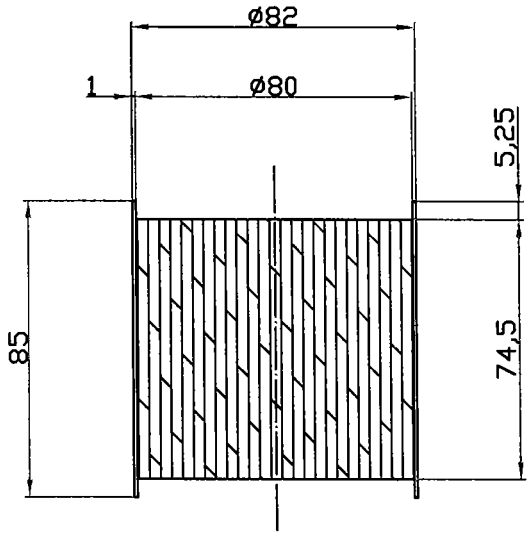


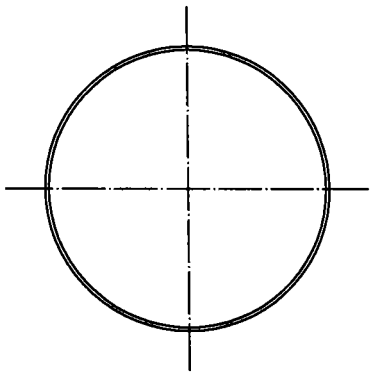
SCALA:	MODEL: GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
DATUM: 13.06.2006	
NAME: I.CAVALLARO	
Tipo: GR1: TAPPO ølnt.38 – Loch ø12,5	

Termignoni s.r.l.

info@termignoni.it

Cod. TERMIGNONI TER171





CHARACTERISTICS

DIMENSIONS : Øi 80x74,5 mm.

CPSI : 200

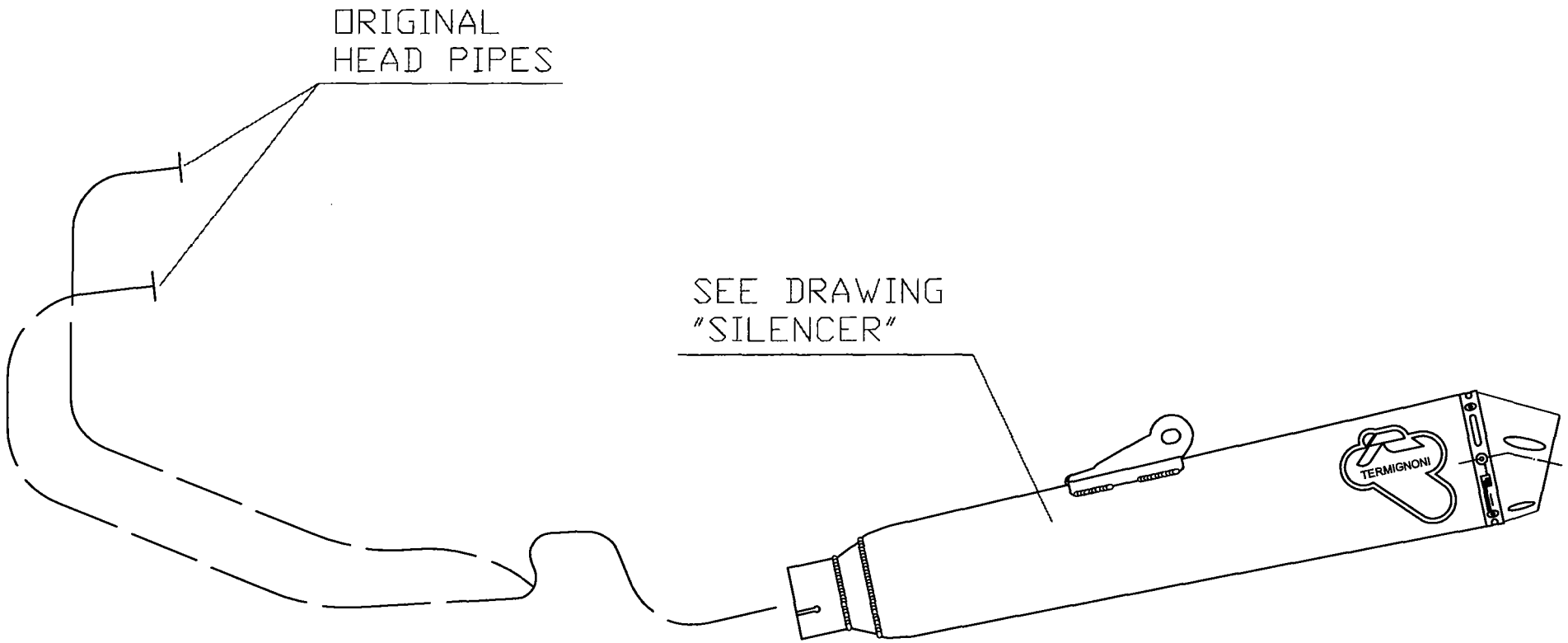
FORMULATION : Pt/Pd/Rh

RATIO : 1/13/5

LOADING : 70 gr/ft 3

SCALE: 1:1	***Type:*** GUZZI GRISO 1100 06 1 SIL STR G005 GR1 0.....
DATE: 13/06/06	
NAME: I.CAVALLARO	
CATALYTIC CONVERTER	
Termignoni s.r.l.	

Material: stainless steel



SCALE:	MODEL: GUZZI GRISO 06
DATE: 13/06/06	1 SIL STR G005 GR1 0.....
DESIGNER: I.CAVALLARO	
TYPE: GR1: ASSEMBLY WITH "CAP" OPT 1	

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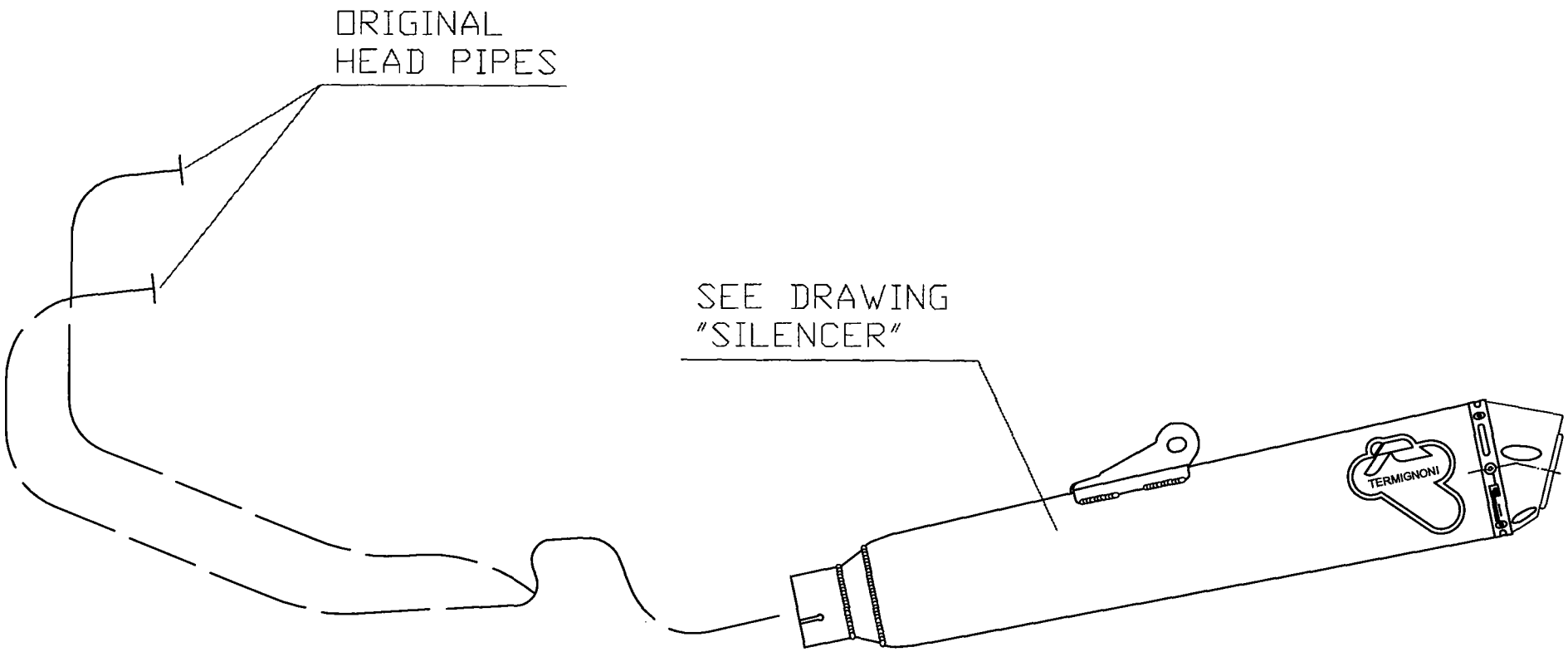
www.termignoni.it

Material: stainless steel



SCALE:	MODEL: GUZZI GRISO 06 1 SIL STR G005 GR1 0.....
DATE: 13/06/06	
DESIGNER: I.CAVALLARO	
TYPE: GR1: ASSEMBLY WITH "CAP" OPT 2	

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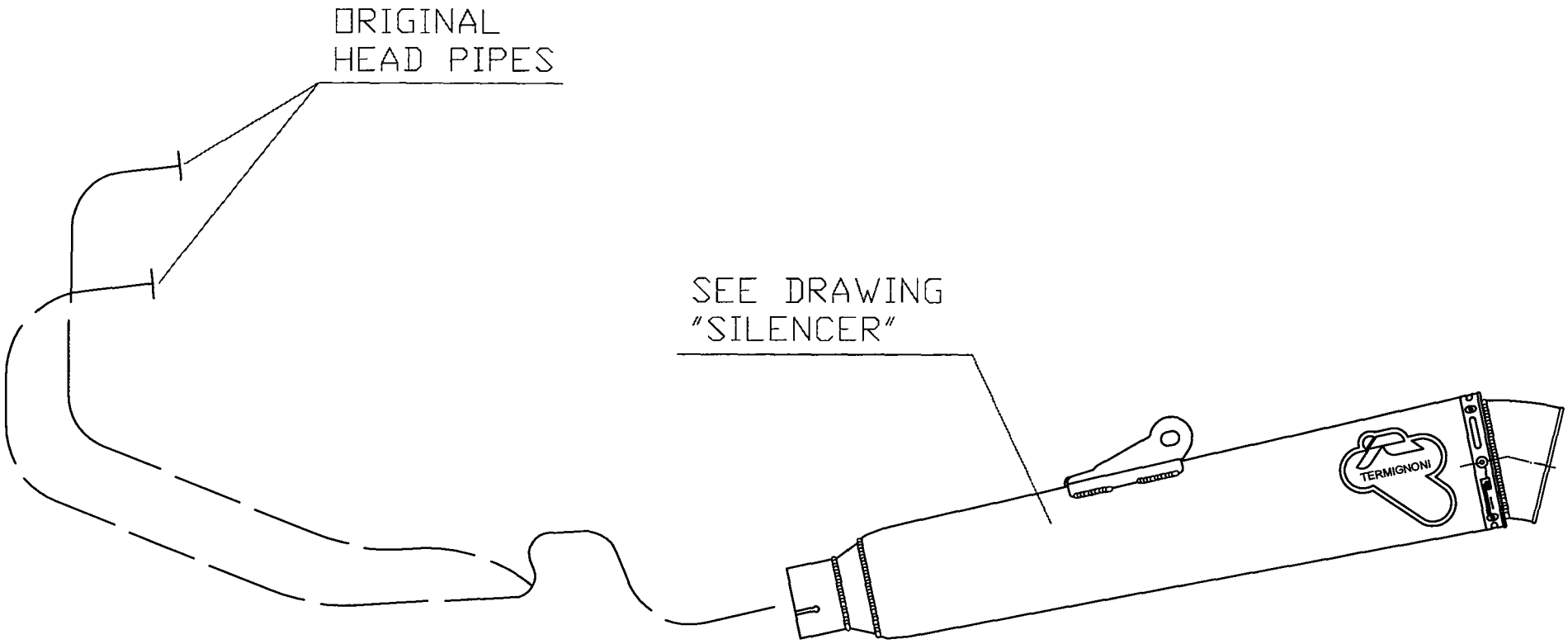
Material: stainless steel



SCALE:	MODEL: GUZZI GRISO 06
DATE: 13/06/06	1 SIL STR G005
DESIGNER: I.CAVALLARO	GR1 0.....
TYPE: GR1: ASSEMBLY WITH "CAP" OPT 3	

Termignoni s.r.l.

www.termignoni.it

TERMIGNONI s.r.l.
via Case Sparse 80/4
tel. (0131) 71666 - Fax 71696
15077 Predosa
Alessandria - Italia

Cod. Fisc. e P. IVA 00862780061

FITTING INSTRUCTIONS

for Termignoni exhaust systems

A. Dismantling the original exhaust system

1. Remove any casing parts impeding clear access.

2. Detach the silencer support(s) and the original silencer from the branch pipe and/or exhaust manifold.

B. Fitting Termignoni silencers

1. Fit the Termignoni silencer(s) to the original branch pipe, or use the Termignoni branch pipe to fit to 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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ISTRUZIONI DI MONTAGGIO

per impianti di scarico Termignoni

A. Smontaggio dell'impianto di scarico originale

1. Rimuovere eventuali parti del rivestimento in modo che non siano d'impaccio.

2. Smontare il/i supporto/i marmitta e la marmitta originale dal tubo di raccordo e/o dal collettore di scarico.

B. Montaggio della marmitta Termignoni

1. Montare la/le marmitta/e Termigoni sul tubo di raccordo originale o utilizzare il tubo di raccordo Termignoni sul collettore di scarico.

2. Fissare la/le marmitta/e con il/i supporto/i in dotazione al veicolo, ma non stringere a fondo le viti ed i bulloni.

3. Disporre l'impianto di scarico in modo tale che anche quando completamente inserito abbia una distanza minima di ca. 5 mm da tutti i componenti del veicolo.

4. Serrare tutti i collegamenti a vite.

5. Effettuare una prova di funzionamento del veicolo, verificare che tutti i collegamenti siano ben fissati, eventualmente stringere ulteriormente.

6. Dopo ca. 100 km controllare nuovamente tutti i collegamenti ed eventualmente stringere le viti ed i bulloni.

ATTENZIONE:
In caso di interventi sull'impianto di scarico dopo una prova di funzionamento, prestare attenzione alla superficie dell'impianto che potrebbe essere molto calda.