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

---

Prüfbericht Nr. - Report No: **374-0030-07-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: **13.04.2007**

Nr. der Bauartgenehmigung: e1*97/24*2005/30/9/III*0671*00
Component type-approval No.:

1. Fabrikmarke der Anlage - Make of exhaust:
   Termignoni

2. Typ der Anlage - Type of exhaust:
   DHM

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*0671*00
Approval No.:

6. Die Anlage wurde zur Prüfung vorgeführt am - Date system submitted for testing:
06.04.2007

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

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

9. Datum - Date: **24.05.2007**

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

R. Lindtner

KRAFTFAHRT-BUNDESAMT 413

(R. Lindtner)

Nummer der Genehmigung: e1*97/24*2005/30/9/III*0671*00
Approval No.:

Anlagen:
Enclosure:

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

1 (Teil-)Beschreibungsbogen Nr. **DHM/97/24 rev.00 (2 Blatt)** vom **05.04.2007**
mit Anlagen **(6 Blatt)**
(partical) description sheet No. **DHM/97/24 rev.00 (2 sheet/s)** of **05.04.2007**
with enclosures **(6 sheet/s)**

1 Technischer Bericht **(6 Blatt)**
Techical report **(6 sheet/s)**
und – and

1 Prüfbericht **(6 Blatt)** mit Anlagen **1 + 3 (2 Blatt)**
test report **(6 sheet/s)** with enclosures **1 + 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*0671*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
0671 (9)

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.

Die Genehmigung erlischt, wenn sie zurückgegeben oder entzogen wird, oder der genehmigte Typ den Rechtsvorschriften nicht mehr entspricht. Der Widerruf kann ausgesprochen werden, wenn die für die Erteilung und den Bestand der Genehmigung geforderten Voraussetzungen nicht mehr bestehen, wenn der Genehmigungsinhaber gegen die mit der Genehmigung verbundenen Pflichten - auch soweit sie sich aus den zu dieser Genehmigung zugeordneten besonderen Auflagen ergeben - verstößt oder wenn sich herausstellt, dass der genehmigte Typ den Erfordernissen der Verkehrssicherheit oder des Umweltschutzes nicht entspricht.

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*0671*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 - 0030 - 07 - 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:	**DHM**
0.2.1.	Variants:	Not Applicable
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:	TERMIGNONI DHM e1 0671 9
1.2.1.	Structure of the non-original exhaust system:	Non-original exhaust system, consisting out of two silencers under the seat, elliptic, main axle 124 mm, secondary axle 94 mm, length 345 mm, absorption-reflection- principle with an outlet pipe ∅ 28 mm with covering pipe 50 mm according to drawing no. DHM: SILENCER in combination with original header system.
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:	DUCATI
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	374-0031-07-ITA	6	13/04/2007

b. Information Document n° DHM/97/24 rev. 00 05/04/2007

c1. Drawing DHM: SILENCER 05/04/2007

c2 Drawing DHM: ASSEMBLY 05/04/2007

c3. Drawing DHM: TAPPO ØInt.28 05/04/2007

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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

Recognised Expert
Emmanuel Nucci

mp Sesto San Giovanni (MI),
the 13.04.2007

173078

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Automotive

TEST REPORT

No. 374 - 0031 - 07 - 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:	**DHM**
0.2.1.	Variants:	Not applicable
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:	Not applicable

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Automotive

0.5.	No. of information document: Date:	DHM/97/24 rev. 00 05/04/2007
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 two silencers under the seat, elliptic, main axle 124 mm, secondary axle 94 mm, length 345 mm, absorption- reflection- principle with an outlet pipe ∅ 28 mm with covering pipe 50 mm according to drawing no. DHM: SILENCER in combination with original header system.

2.2.	Place of marking:	on the silencer, see drawing DHM: 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 side of the vehicle, under the seat

3. Test report

The tests were carried out in 1 series A at 06/04/2007.

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Automotive

3. **Test report** (continuation)

Series A: (no. 1)

3.1. Vehicle

	(0.1)	Make:	DUCATI
3.1.1.	(0.2.)	Type / variant / version:	B1 / 00 / AA
3.1.2.	(0.5.)	Manufacturer	DUCATI Motor Holding S.p.A.
3.1.3. 3.1.3.1		Homologation no.: Extension:	e3*2002/24*0458 00
3.1.4.		Vehicle identification no.:	*ZDM1YACP18B000010*
3.1.5.		Year of manufacture:	2007
3.1.6.	(2.1)	Weight of the vehicle:	200 kg

3.2. (3.) Engine

3.2.1.	(3.0.)	Manufacturer:	notice 3.1.2
	(3.1.)	Make:	DUCATI
3.2.2.	(3.1.1)	Type:	1078AB
3.2.3.		Engine capacity:	1079 cm^3
3.2.4.	(3.2.1.7)	Rated maximum engine power:	62 kW at 7500 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):	dry multi-plate 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	 1:0,567 / 1:0,357
	(4.6.)	Top speed:	215 km/h
	(5.2.)	Tires: front rear	 120/70 ZR17 180/55 ZR17
3.4.	assembly of the exhaust system (no. of parts, enclosure 1):		1.0., c1., c2., c3.

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Automotive

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.
Emission test has not been carried out because the non original exhaust system does change neither catalyst nor vehicle performance

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 Chapter9 (including last amendment 2005/30/EC) were checked and were fulfilled by the non original exhaust system / technical unit.

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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

Recognised Expert
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mp Sesto San Giovanni (MI),
the 13.04.2007

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Automotive

E N C L O S U R E 1 ***to test report no.*** **374-0031-07-ITA**
Type: **DHM**
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 silencers	two silencers under the seat, elliptic, main axle 124 mm, secondary axle 94 mm, length 345 mm, absorption- reflection-principle with an outlet pipe ∅ 28 mm with covering pipe 48 mm	Drawing DHM: SILENCER
c2	drawing of composition	notice drawing	Drawing DHM: ASSEMBLY
c3.	reduction	notice drawing	Drawing DHM: TAPPO ØInt.28

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0031-07-ITA**
Type: **DHM**
Manufacturer: **Termignoni S.r.l.**

Test results

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)	DUCATI Motor Holding S.p.A.	DUCATI	Hypermotard 1100 / Hypermotard 1100S	B1 (e3*2002/24*0458*00)	1078AB	4-stroke	1079	62/7500	with cat *)	1.0., c1., c2., c3.

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

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Automotive

E N C L O S U R E 3 ***to test report no.*** **374-0031-07-ITA**
Type: **DHM**
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*	55,19/9000	53,80/9200	-	-	2 / 3	80	80,0	77,0	50	96	97	90	3750

*) test series

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

TERMIGNONI	**INFORMATION DOCUMENT** **N° DHM/97/24 rev. 00**	**Date: 05/04/2007** **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)

1.	*Make (trade name of manufacturer)*:	Termignoni
2.	*Type and general commercial description:*	DHM
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*

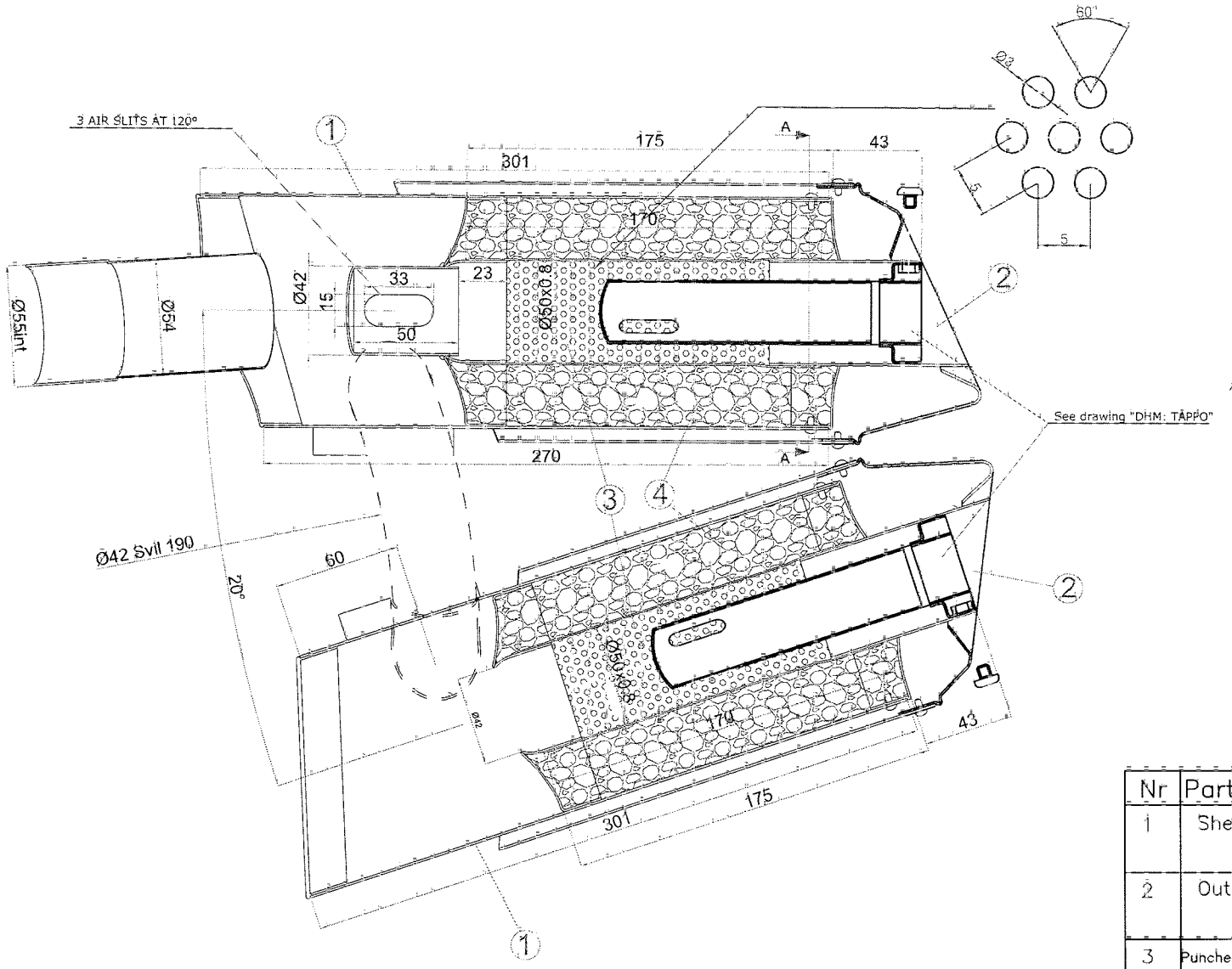
Further details according to directive 97 / 24 / EC, chapter 9, annex III, enclosure 2 A including amendment 2005/30 EC are mentioned in the motorcycle homologation (notice enclosure 2 of the test report).

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*	DHM: SILENCER	05/04/2007
c2.	*Drawing of composition*	DHM: ASSEMBLY	05/04/2007
c3.	*Drawing of reduction*	DHM: TAPPO ØInt.28	05/04/2007
	List of vehicles		
	Fitting instructions		

Att. c1.



PART LIST

Nr	Part name	Material	DImensions	Qt.
1	Shell	Stainless Steel	See drawing	1x
	or	Titanium	See drawing	1x
2	Outlet Pipe	Stainless Steel	ø 48int	1x
	or	Titanium	ø 48int	1x
3	Punched-holes pipe	Stainless Steel	ø 50x0,8	1x
	or	Titanium	ø 50x0,8	1x
4	Sound deadener	Fiberglass	220 g (for silencer)	1x

SCALE:

DATE: 05.04.07

DES: P.Pelizza

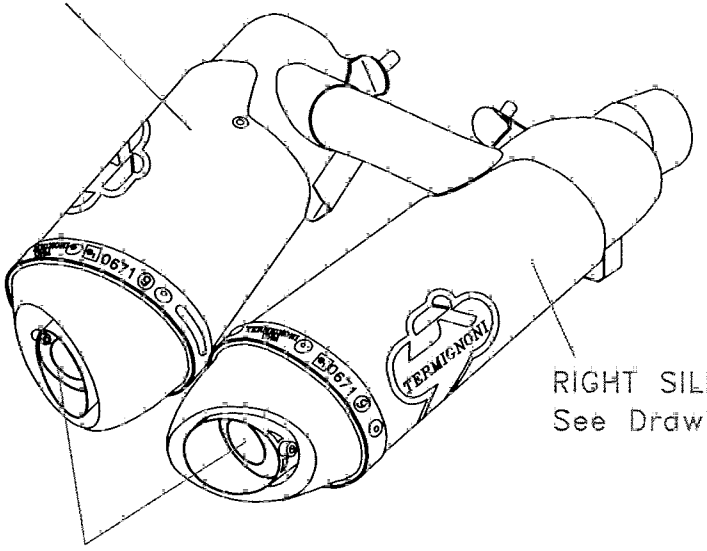
MODEL: DUCATI Hypermotard '07 2 sil. STR COD D093 DHM e1 0671 9

TYPE: DHM: SILENCER

Termignoni s.r.l.

Att. c2.

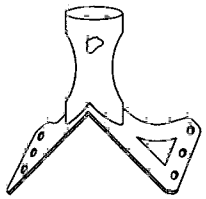
LEFT SILENCER
See Drawing "DHM: SILENCER"

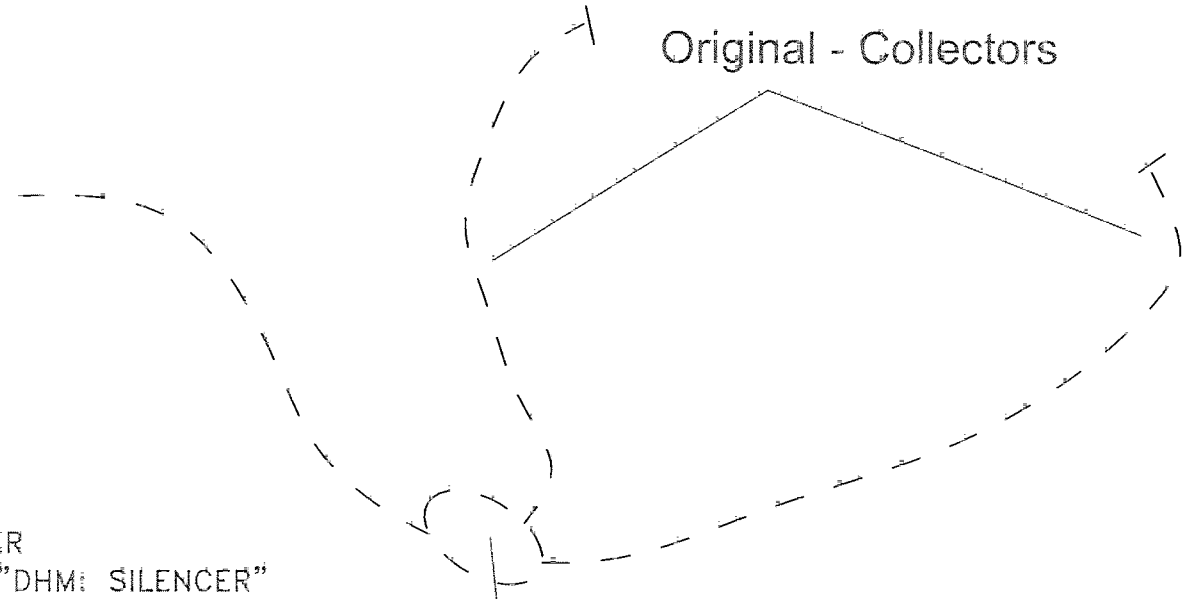


RIGHT SILENCER
See Drawing "DHM: SILENCER"

See Drawing "DHM: TAPPO"

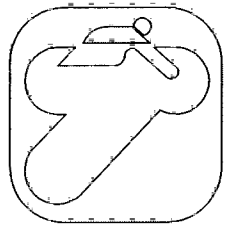
BRACKET





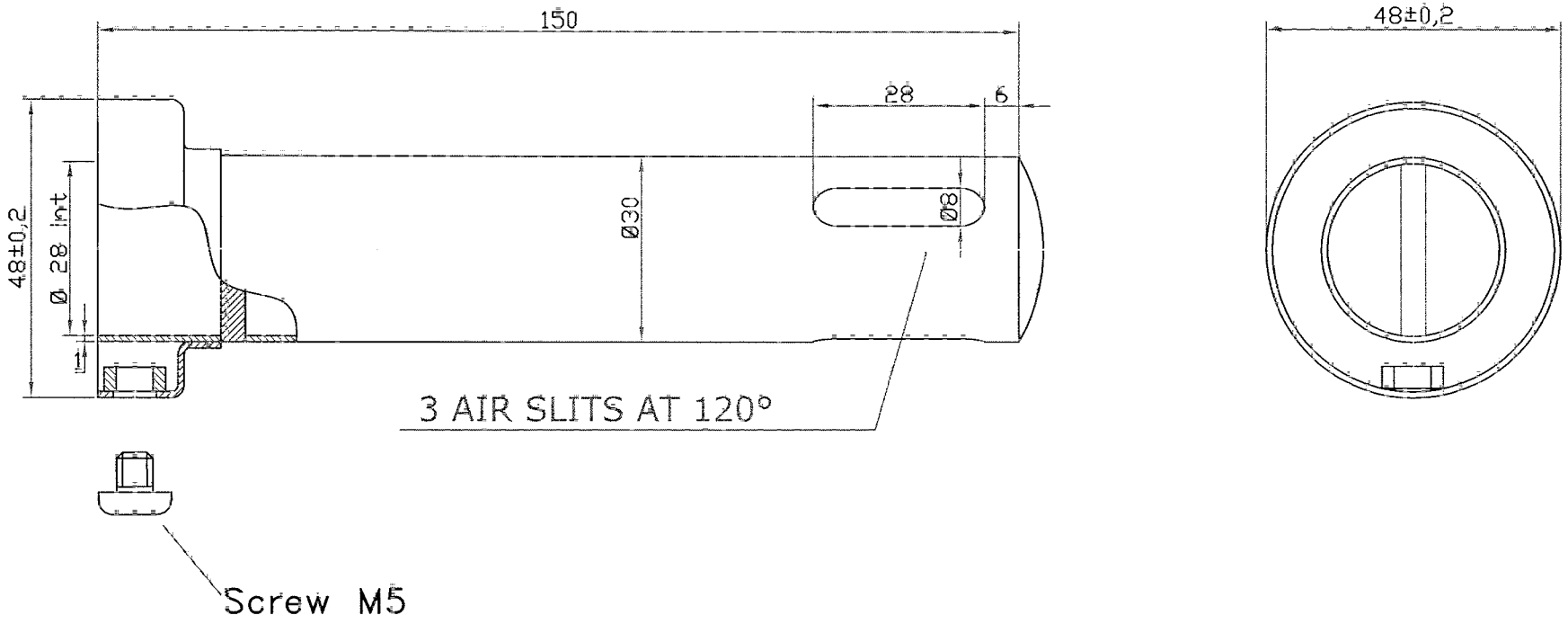
SCALE:	*Model:* DUCATI Hypermotard '07 2 sil. STR COD D093 DHM e1 0671 9
DATE: 05.04.07	
NAME: P.Pelizza	
TYPE: DHM: ASSEMBLY	

Termignoni s.r.l.



MATERIAL: S.Steel or Titanium

Att. c3.



SCALA:	MODEL: DUCATI Hypermotard '07 2 sil. STR COD D093 DHM ei 0671 ⑨
DATUM: 05.04.2007	
NAME: P.PELIZZA	
TYP: DHM: TAPPO	

Termignoni s.r.l.

info@termignoni.it

Cod. TERMIGNONI TER193

INFORMATION DOCUMENT N° DHM/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)	DUCATI Motor Holding S.p.A.	DUCATI	Hypermotard 1100 / S	B1 (e3*2002/24* 0458*00)	1078AB	4-stroke	1079	62/7500	with cat *)	1.0., c1., c2., c3.

*) The original catalytic converter remain in the original exhaust system.

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www.termignoni.it
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.