

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 2013/60/EU.

EC Component type-approval No: e11*97/24/9/III*2013/60*0927*00

Report No.: 15-00003-CM-MIL-00, by technical service: TÜV SÜD Auto Service GmbH, date: 16 February 2015.

Reason(s) for extension: Not applicable

- 1. Make of exhaust: Termignoni
- 2. Type of exhaust: H131
- 3. Name and address of manufacturer:
 Termignoni S.p.A.
 Via della Rampina, 1
 I-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: 16 February 2015
- Component type-approval GRANTED



8. Place: BRISTOL

9. Date: 10 MARCH 2015

10. Signature: - Stenning

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*2013/60*0927*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: Not applicable

Total number of sheets: 10 (Ten)

Reasons for Revision: Not applicable

Revision date &
Office stamp





INFORMATION DOCUMENT N° H131/97/24 rev. 00

Date: 16/02/2015 Page 1/2

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

1. *Make (trade name of manufacturer)*: Termignoni

2. Type and general commercial

description: H131

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 H131/97/24 rev. 00

Date: 16/02/2015 Page 2/2

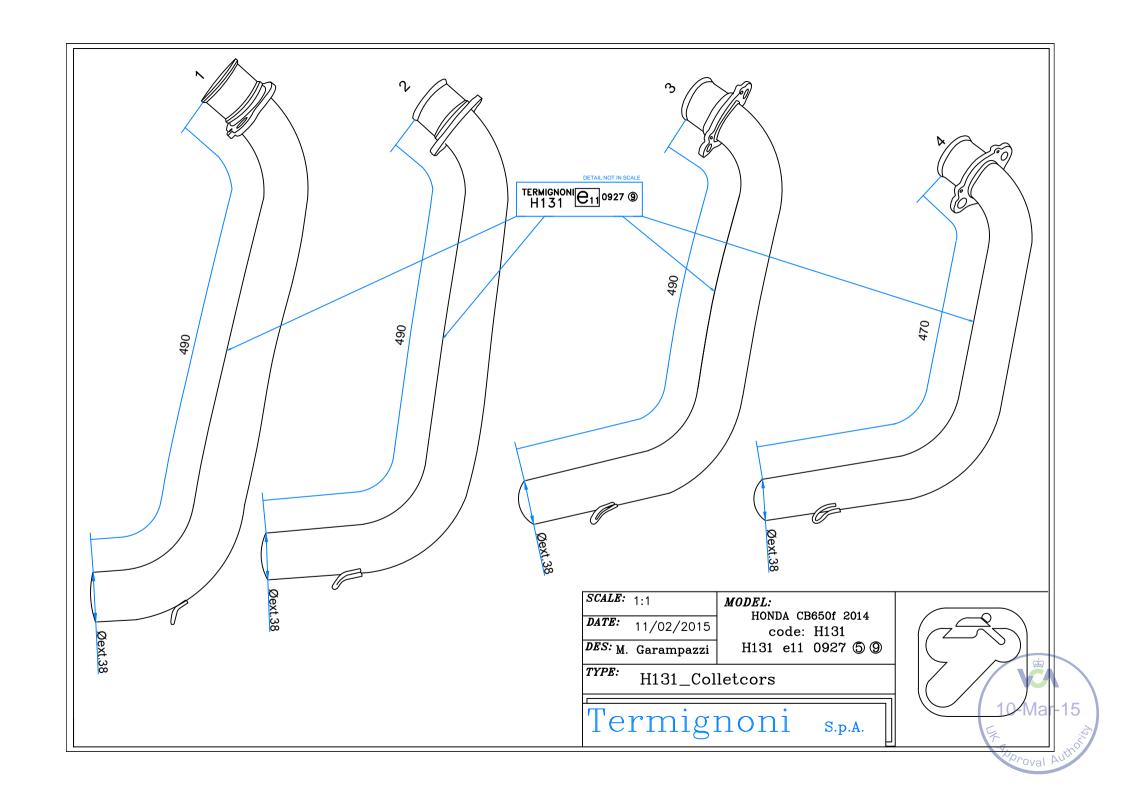
Information Document relating to EC type approval as separate technical unit of exhaust systems for motorcycles (Directive 97/24/EC amended 2013/60/EU)

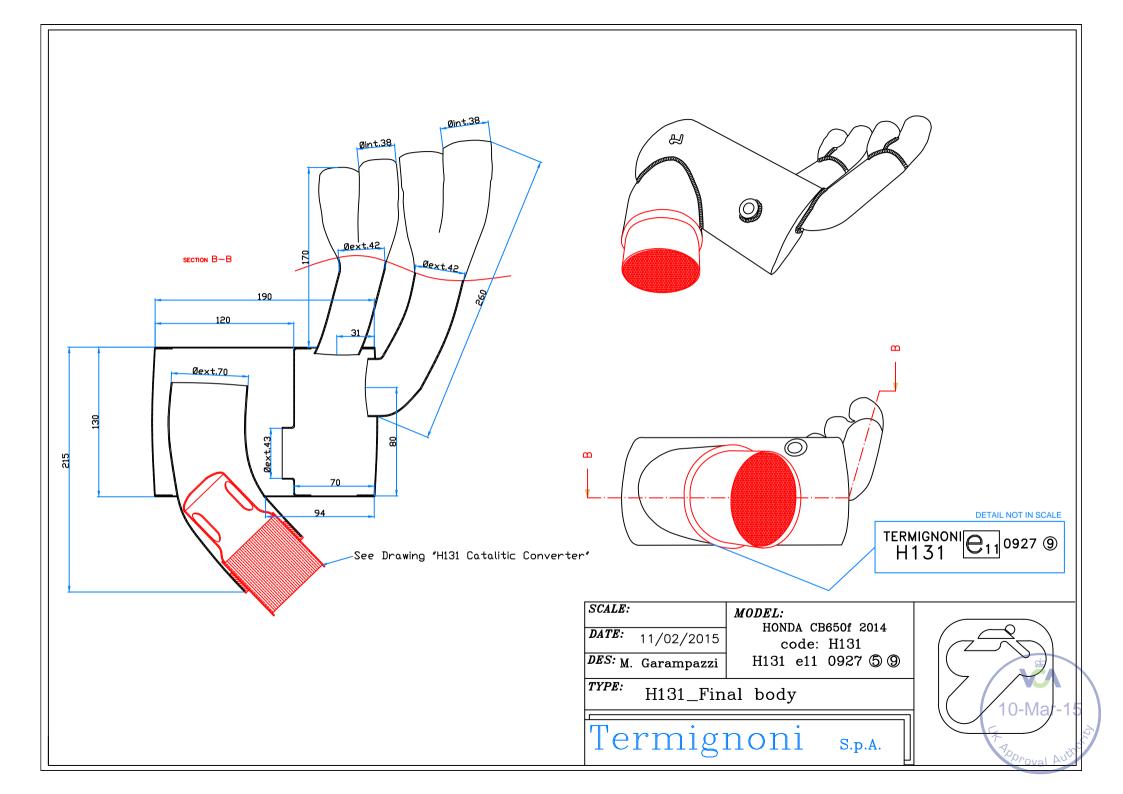
Enclosures	Drawing no.	Date
Drawing of collectors	H131_Collectors	11/02/2015
Drawing of final body	H131_Final body	11/02/2015
Drawing of silencer	H131: Silencer	10/02/2015
Drawing of catalytic converter	H131: Catalytic converter	11/02/2015
Drawing of reduction	H131: Tappo	11/02/2015
Drawing of composition	H131: Assembly	12/02/2015

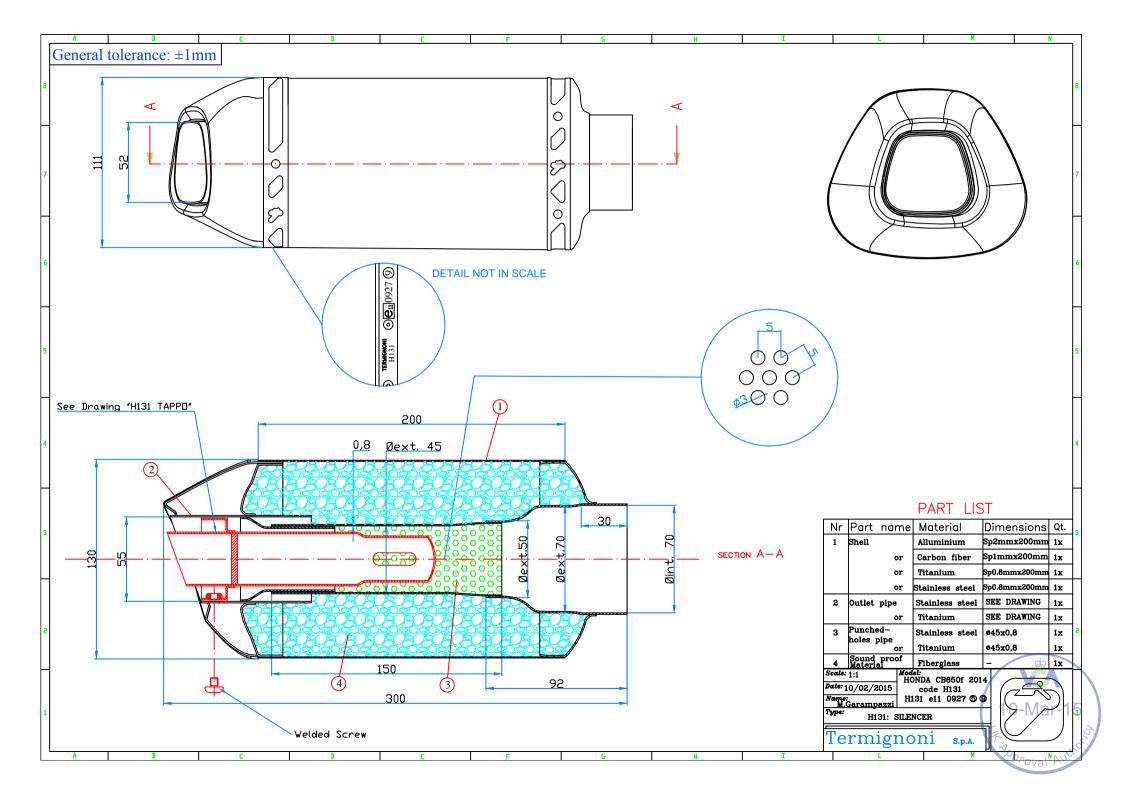
List of vehicles

Fitting instructions





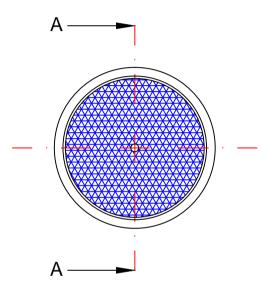


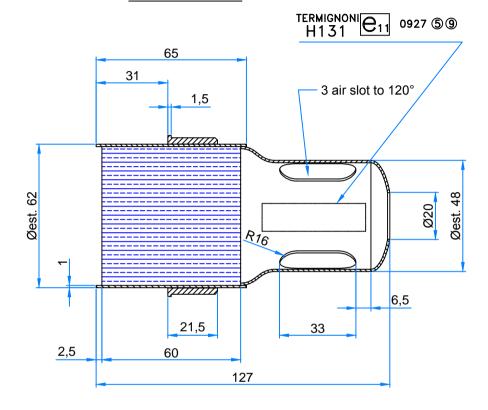


General tolerance: ±1mm

MATERIAL: S.Steel or Titanium

Section A - A





CHARACTERISTICS

DIMENSIONS: Øi 60x60 mm.

CPSI: 400

FORMULATION : Pt/Pd/Rh

RATIO: 1/13/1

LOADING: 140 gr/ft3

SCALA: 1:1

DATUM: 11/02/2015

NAME: M.Garampazzi

MODEL:

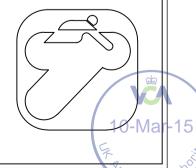
HONDA CB650f 2014 code: H131

H131 e11 0927 (5) (9)

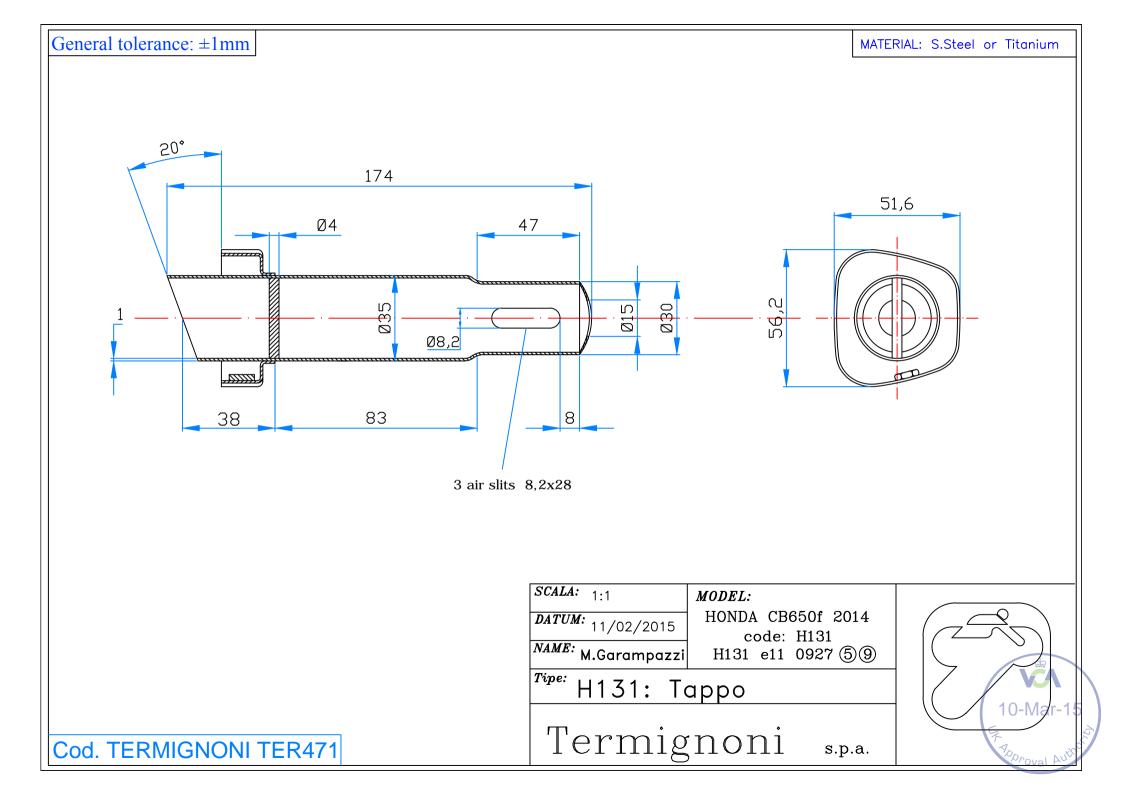
Tipe: H131: Catalytic converter

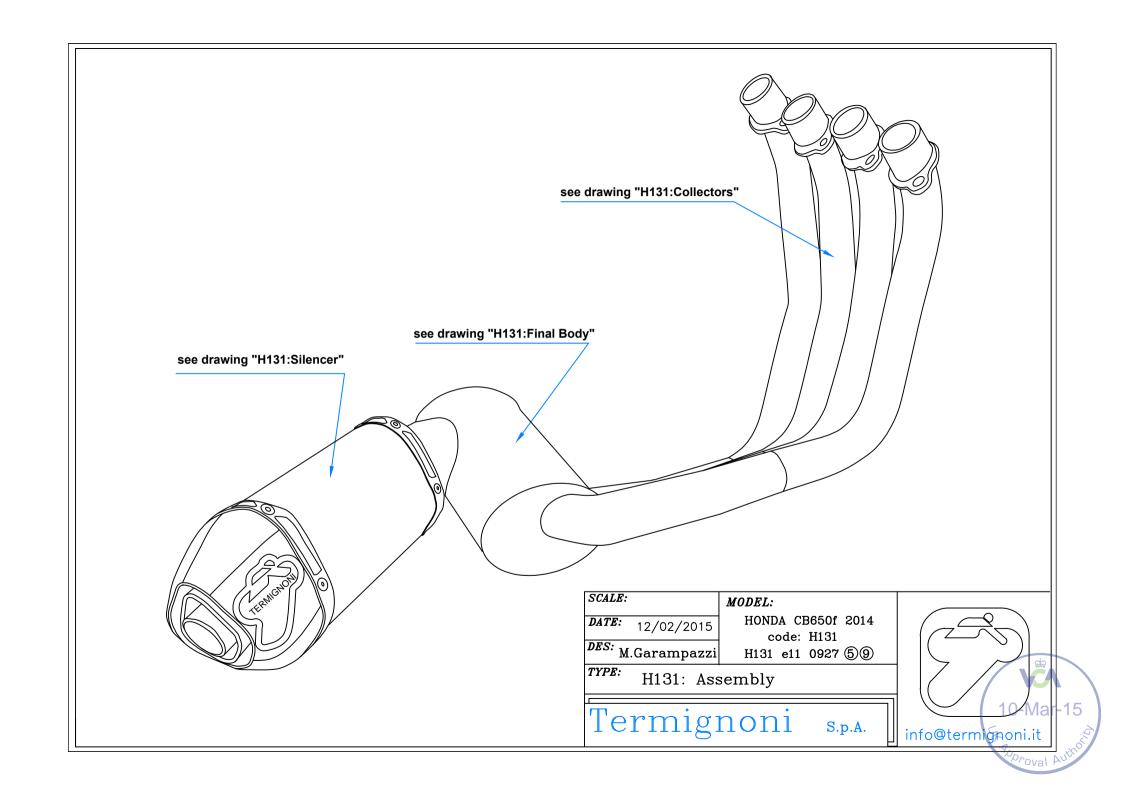
Termignoni

s.p.a.



Cod. TERMIGNONI TY170





INFORMATION DOCUMENT N° H131/97/24 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		Composition as shown in enclosure no. 1
1)	THAI HONDA MANUFACTU- RING CO. LTD.	HONDA	CB650FA, CB650F	RC75 e13*2002/24*0678*	RC74E	4-stroke	649	64,0 / 11000	with cat	1) 2) 3) 4) (*)

^(*) The Catalytic converter with separate marking TERMIGNONI H131 0927 9 must be correctly placed in the assembly , in order to fulfil the requirements of the complete exhaust system.



The installation of the muffler, separated by the catalytic converter, is not allowed and doesn't fulfil the directive requirements



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 Fart. IVA - C.F. 00862/80061 Iscriz. C.C.I.A.A. AL 130295 Iscriz. Tribunale Reg. Soc. 7721 N. Export AL 009063 C.C. IT 00862780061

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



TÜV SÜD Auto Service GmbH Westendstraße 199 D-80686 München



Techn. Report No.: 15-00003-CM-MIL-00

Manufacturer: Termignoni S.p.A 15077 Predosa (AL)

Type: H131 Page 1/6

TEST REPORT No. 15-00003-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
V	Granting of a type approval
	Extension/correction to type approval no.





Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: H131 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: H131

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: H131/97/24 rev. 00

Date: 16.02.2015

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 130x110 mm and, length 300 mm, absorption-reflection principle with outlet pipe Ø 35 mm according to drawing no. H131: Silencer and

H131: Tappo. Equipped with catalytic

converter inside of the inlet section of silencer according to drawings no. H131 Final body

and H131:Catalytic converter and in

combination with non original header system, according to drawing no. H131_Collectors.

Aluminium-alternatively stainless steel alternatively titanium alternatively carbon

fiber-cover.



Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: H131 Page 3/6

2.2. Place of marking: On the silencer, see drawing:

H131: Silencer

On the final body, see drawing:

H131_Final body

On the catalytic converter, see drawing:

H131:Catalytic converter

On the collectors, see drawing:

H131_Collectors

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 2 series A at 02/02/2015 and B at 09/02/2015

3.1. Vehicle

(0.1) Make: HONDA

3.1.1. Type / Variant / Version: RC75/2/1

3.1.1.1 Model: CB650FA

3.1.2. Manufacturer THAI HONDA MANUFACTURING CO. LTD.

3.1.3. Homologation no.: e13*2002/24*0678*

3.1.3.1 Extension: 00

3.1.4. Vehicle identification no.: *MLHRC75B0E5000007*

3.1.5. Year of manufacture: 2014

3.1.6. Kilometers: 1839

3.1.7. Total weight: 191 kg

3.2. Engine

3.2.1. Manufacturer: Notice 3.1.2

Trade name: HONDA

3.2.2. Type: RC74E





Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: H131 Page 4/6

3.2.3. Engine capacity: 649 cm³

3.2.4. Rated maximum engine power: 64 kW at 11000 min⁻¹

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 180/55 ZR17M/C (73W)

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)



Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Type: H131 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
- 3.9.4. Emission test

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

Enclosure 4, Test results according pollution

Information Document





Manufacturer: Termignoni S.p.A

15077 Predosa (AL)

Page 6/6 Type: H131

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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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	www.kba.de		
Vehicle Certification Agency (VCA)	Vereintes Königreich/ United Kingdom	VCA-TS-006	http://ec.europa.eu/enterpri se/sectors/automotive/appr		
Approval Authority of the Netherlands (RDW)	Niederlande/ The Netherlands	RDW-99050009 01	oval-authorities-technical- services/technical-		
National Standards Authority of	Irland/	Technical Service	services/index en.htm		
Ireland (NSAI)	Ireland	Number: 49			
Vehicle Safety Certification Center (VSCC)	Taiwan/ Taiwan	DE04-06-2	http://www.vscc.org.tw/English/Default.aspx		

München, 16.02.2015

Authorized Signatory





To test report no.

Type: Manufacturer: 15-00003-CM-MIL-00 H131 Termignoni S.p.A.

Composition of the original exhaust system + original parts

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No.	Components parts, dimensions in mm	Dimensions of the part in mm or	Part no. or
		original part / replacement part	homologation no.
1)	Collectors and final body	Notice drawing	Drawing H131_Collectors and
			Drawing H131_Final body
2)	Catalytic converter	Ø 60x127	Drawing H131: Catalytic converter
3)	Reduction	Notice drawing	Drawing H131: Tappo
4)	Silencer (outlet pipe Ø 35x174 mm)	One silencer on the right, maximum shape 130x110 mm and, length 300 mm, absorption-reflection principle with outlet pipe Ø 35 mm	Drawing H131: Silencer





To test report no. Type:

Manufacturer:

15-00003-CM-MIL-00 H131 Termignoni S.p.A.

Field of application Page 1/1

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)	THAI HONDA MANUFACTU- RING CO. LTD.	HONDA	CB650FA, CB650F	RC75 e13*2002/24*0678*	RC74E	4-stroke	649	64,0 / 11000	with cat	1) 2) 3) 4) (*)

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To test report no.

Type: Manufacturer:

15-00003-CM-MIL-00 H131

Termignoni S.p.A.

Test results Page 1/1

No.	Engine	Engine	Vmax	Vmax	measure	Limit	Original	Non	at	Vehicle	Original	Non	at
of	power	power	original	non	d in gear	Value	mea-	original	km/h	type	mea-	original	min⁻¹
vehicle	original	non original		original	ratio	**)	sured	measured		hom.	sured	measured	
	kW/min ⁻¹	kW/min ⁻¹	km/h	km /h									
1) A*	64,0 / 11000	63,1 / 11000	-	-	2/3	80	79	80	50	95	95	95	5500

Test series



Limit value of directive which was valid by vehicle type homologation



To test report no.
Type
Manufacturer:

15-00003-CM-MIL-00 H131 Termignoni S.p.A.

Test results according pollution

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Type I

Equivalent flywheel mass	290 kg
1 '	

	CO [g/km]	HC [g/km]	NO _x [g/km]
Test 1	0,998	0,268	0,061
Test 2	1,022	0,270	0,067
Test 3			
Average	1,010	0,269	0,064
Limits C, II (Vh≥150cm³)	2,62	0,33	0,22

Type II

Running condition	CO [Vol %]	Engine rpm [min ⁻¹]	Engine oil temperature [K]
Nominal idle speed	0,00	1300	371
Exceeded idle speed	0,00	2400	371

