Type : CHR-7

Manufacturer :

Test Report

Agreement

concerning the adoption of uniform technical prescriptions for the wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles and the conditions for reciprocal recognition of approvals granted on the basis of these prescriptions

Uniform provisions concerning the approval of rear-view mirrors and of two-wheeled power-driven vehicles with or without side car, with regard to the installation of rear-view mirrors on handlebars

ECE-Regulation 81

including all amendments until

series of Amendments: 00
Supplement 2 dated: June 18, 2007

	Approval status
ECE	Number of approval
	E4-81R-00 0379

Type : CHR-7

Manufacturer :

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0. General information

0.1.	Make (trade name of the manufacturer)	:
0.2.	Class	: L
0.3.	Name and address of the manufacturer	:
0.4.	Name and address of the manufacturer's authorised representative	: not applicable
0.5.	No. of information folder	: CHR-7-00

1. Test object(s)

1.1.	Description	: Exterior rear-view mirrors with ~~flat or~~ spherically convex reflecting surface. The adjustment of the ~~reflecting surface relatively to the~~ mirror housing is performed manually; ~~Cable control type with manual folding type~~. ~~Optional available is a flat reflecting surface with part cylindrical reflecting surface and convex reflecting surface with part aspherical reflecting surface. For the tests the cylindrical and the aspherical part is regarded as not reflecting therefore covered. Cable control type with manual folding type.~~ Models of vehicle to be fitted: All modes that all installation conditions are the same
1.2.	Remark	: ~~valid for RHD and LHD symmetrically~~

Type : CHR-7

Manufacturer :

2. Test minutes

2.1.	Test facilities	: The test equipment used was in compliance with the requirements of the regulation.
2.2.	Temperature/Relative Humidity of laboratory	: 22.3°C / 68.1 %
2.3.	Test results	: see Appendix 1. ~~The mirror type has been tested according to the amendments mentioned in Appendix 0. An actual test of the type was not required. The results of the previous tests are still valid.delete if unnecessary.~~
2.3.1.	General regulations	: The rear-view mirror complies with the general requirements of the regulation.
2.3.2.	Special regulations	: The rear-view mirror complies with the special requirements of the regulation.
2.3.3.	Tests	: The rear-view mirror fulfils requirements of the regulation regarding impact and bending test.
2.4.	General test information	
2.4.1.	Test object received on	: December 24, 2012
2.4.2.	Test date	: December 26, 2012 ~ January 02, 2013
2.4.3.	Test site	: TUV Asia Pacific Ltd. Taiwan Branch Taichung, Taiwan R.O.C. Zhifu Science Technologies Co., Ltd Changhua County, Taiwan R.O.C.
2.4.4.	Remark	: The results of the test refer exclusively to the object(s) mentioned under point 1.1 of this report.

Type : CHR-7

Manufacturer :

3. Remark concerning tested object(s) : All versions of the mirror type as stated in the information document are covered with the tested test object(s) respectively.

4. Appendices

0	List of modifications	: ---
1	Test minutes for the mirror type	: attached
2	Information folder	: CHR-7-00

5. Statement of conformity

The information folder and the type described there comply with the requirements in the above mentioned ~~directive/~~ regulation.

The technical report (including appendix 1) consists of pages 1 to 6 and shall not be reproduced except in full without the written approval of the testing laboratory.

Certification Number: RDW-99050016

Taipei, February 21, 2013
IFM/#



Cronus Huang
Engineer

Type : CHR-7

Manufacturer :

Test minutes for the mirror type — Appendix 1

		Convex mirror (Class L)
Dimension of reflecting surface		
Its area shall not be less than 6900 mm^2	:	7312.5 mm^2
The diameter of circular mirrors shall not be less than 94 mm	:	Not applicable
Where rear view mirrors are not circular, their dimensions shall enable a 78 mm-diameter circle to be prescribed on their reflecting surface	:	yes
The maximum diameter of reflecting surface of any circular rear view mirror shall not be greater than 150 mm,	:	Not applicable
The reflecting surface of any non-circular rear view mirror shall lie within a rectangle measuring 120mm x 200mm	:	yes
Reflecting surface and coefficient of reflection		
Radius of curvature		
rp1 = (ri + r'i) / 2	:	RH : 1268 mm LH : 1352 mm
rp2 = (ri + r'i) / 2	:	RH : 1264 mm LH : 1309 mm
rp3 = (ri + r'i) / 2	:	RH : 1284 mm LH : 1284 mm
r = (rp1 + rp2 + rp3) / 3	:	RH : 1272 mm LH : 1315 mm
Design value of r		1300 mm
Required value of r	:	1000 mm ≦ r ≦1500 mm
Maximum difference between any of the radii (rp1, rp2, rp3) and r must not exceed 0.15 r	:	RH : 12 mm LH : 37 mm
Allowable maximum difference between any of the radii of curvature (rp1, rp2, rp3) and r	:	RH : 190.80 mm LH : 197.25 mm

Type	:	CHR-7
Manufacturer	:	

		Convex mirror (Class L)
Reflecting surface and coefficient of reflection		
Coefficient of reflection	:	RH : 65.12% LH : 65.09%
Required minimum coefficient	:	≥ 40.0 %
Radius of curvature “c” at of the edge of the projection	:	≥ 2.5 mm
Impact point according to test 1 (from front) & 2 (from rear)		
Pendulum angle of return to the vertical	:	Forward : 52° (RH) ; 32° (LH) Backward : 31° (RH) ; 40° (LH)
Breaking of reflecting surface	:	no
Bending test	:	the required load (25 kg) has been applied for one minute
Breaking of reflecting surface and housing	:	no

1. Specification Data December 26, 2012

Type		CHR-7
Function		Rear-View Mirror
Class		L
Mounting Instruction		One screw on the Vehicle
Applicable Vehicle		General
Application Regulation (ECE)		ECE R81
Location of marking	Trade mark	
		On the Mirror
	Approval mark	On the Mirror

2. Construction and Material :

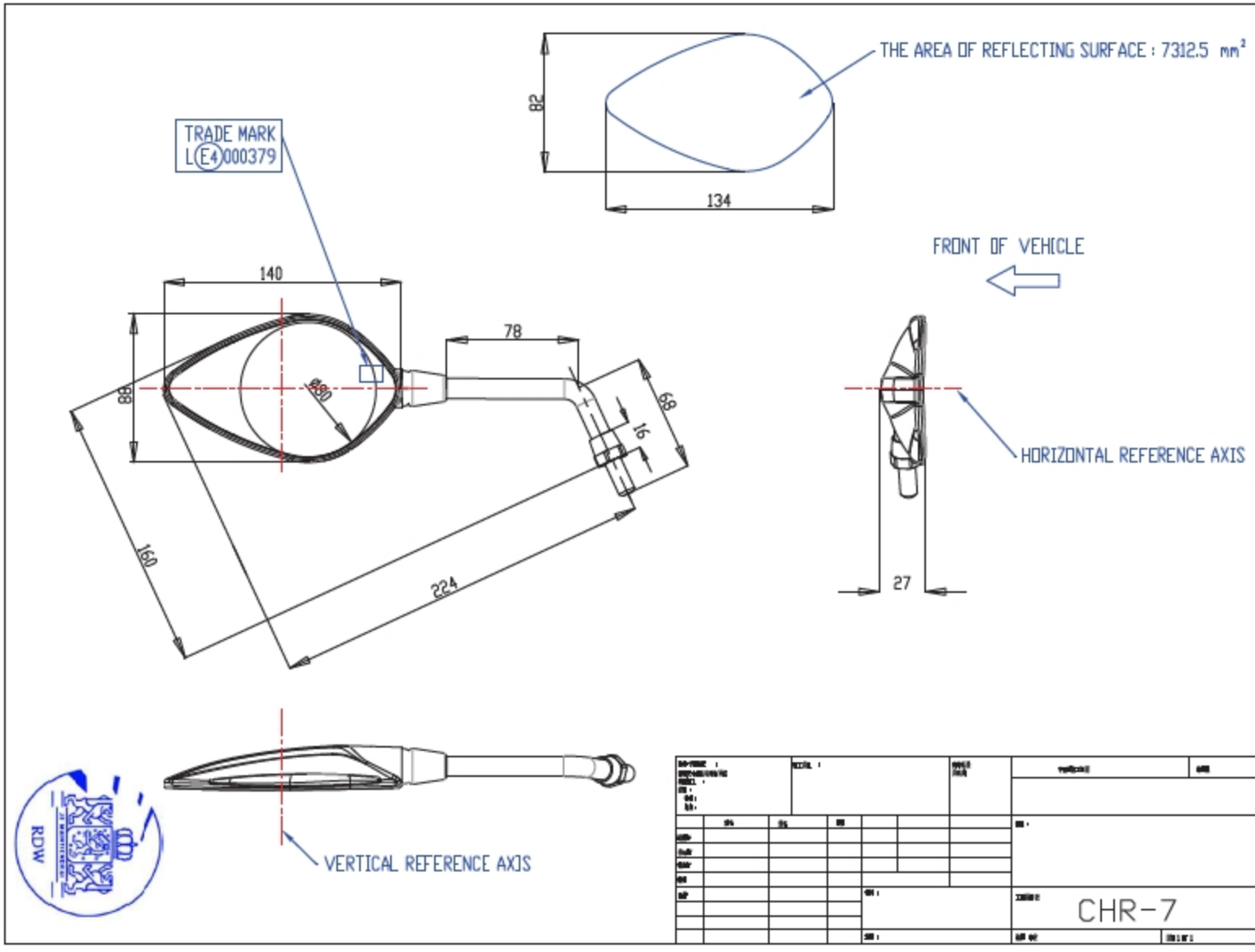
Construction	Material	Remarks
Housing	ABS	--
Fixed support	Steel	--
Mirror	Glass	--

3. Name and Address of Manufactory :

4. Name and address of representative of manufacturer: Not applicable

This document (including drawing) consists of 2 pages

RDW


THE AREA OF REFLECTING SURFACE : 7312.5 mm²
82
134
TRADE MARK
L E4 000379
140
78
88
Ø80
68
16
160
224
FRONT OF VEHICLE
HORIZONTAL REFERENCE AXIS
27
VERTICAL REFERENCE AXIS
RDW
CHR-7
A3

THE NETHERLANDS
(NEDERLAND)

E4

COMMUNICATION

Concerning [1]:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of rear-view mirror pursuant to Regulation number 81.

Approval number: E4-81R-00 0379 **Extension number: 00**

1.	Trade name of mark of device	:
2.	Equipment type	: CHR-7, Rear-view Mirror
3.	Brief description including in particular the following information:	
3.1.	Main dimensions (of the reflecting surface)	: 134 x 82 mm
3.2.	Nominal radius of curvature (of the reflecting surface)	: 1300 mm
4.	Manufacturer's name and address	:
5.	If applicable, name and address of manufacturer's representative	: not applicable
6.	Equipment submitted for approval on	: December 24, 2012
7.	Technical service responsible for conducting approval tests	: TÜV NORD Mobilität GmbH & Co. KG Institut für Fahrzeugtechnik und Mobilität Adlerstrasse 7, D-45307 Essen
8.	Date of report issued by that service	: February 21, 2013

RDW

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Vehicle Approval and Information

9.	Number of report issued by that service	: TW081-A0-120399
10.	Vehicles for which the equipment is designed	: General
11.	Approval	: granted/~~refused/extended/withdrawn~~ [1]
12.	Reason(s) for extension (if applicable)	: not applicable
13.	Place	: Zoetermeer
14.	Date	: 21-MAR-2013
15.	Signature	:

RDW B.T. Alling

16. A list of documents contained in the approval file transmitted to the administrative service which has granted approval is annexed to communication.

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[1] Strike out what does not apply.