

THE NETHERLANDS
(N E D E R L A N D)

COMMUNICATION

Concerning ⁽¹⁾:

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- ~~approval withdrawn~~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

of a separate technical unit type of luggage rack, ski rack or radio receiving or transmitting aerial ⁽¹⁾.**Approval number: E4*26R03/03*0330*02**

1. Trade name or mark : Thule Sweden AB
2. Type : VC
3. Manufacturer's name and address : Thule Sweden AB
Borggatan 5
33573 Hillerstorp
Sweden
4. If applicable, name and address of manufacturer's representative : n/a
5. Characteristics of the separate technical unit : Separate technical unit / Type of luggage rack
6. Limitations of use, if any, and assembly instructions : see Appendix 1 (Information folder); Annex 2:
Conditions and advices, limitations of use
7. Specimen required for approval of a separate technical unit submitted on : 2019-02-08
8. Technical service conducting approval tests : TÜV Rheinland Kraftfahrt GmbH
Am Grauen Stein
51105 Köln
Germany



Approval number: E4*26R03/03*0330*02

9. Date of report issued by that service : 2019-02-18
10. Number of report issued by that service : 153NB0001-02
11. Approval for separate technical unit has been ~~granted/extended/refused/withdrawn~~⁽¹⁾ in respect of luggage rack(s), ski rack(s), radio receiving or transmitting aerial(s)⁽¹⁾.
12. Place : Zoetermeer
13. Date : 25 March 2019
14. Signature :



R.F.R. Clement

15. The list of documents filed with the administration service which has granted approval and available on request is attached to this communication.

⁽¹⁾ Strike out what does not apply.

Type : VC
Manufacturer : Thule Sweden AB, SE-335 73 Hillerstorp

TEST REPORT

according to

UN Regulation No. 26

**Uniform provisions concerning the approval of vehicles
with regard to their external projections**

as last amended by

Amendment 5

Supplement 2 to the 03 series of amendments

Approval Status

UNECE approval : E4*26R03/03*0330*01

Structure of the Test Report

Item No.

- | | |
|----|-------------------------------|
| 0. | General information |
| 1. | Tested vehicle(s) / object(s) |
| 2. | Test record |
| 3. | List of appendices |
| 4. | Statement of conformity |
-

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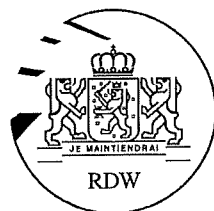
Type : VC
 Manufacturer : Thule Sweden AB, SE-335 73 Hillerstorp

0. General Information

- 0.1. Make (trade name of the manufacturer) : Thule Sweden AB
- 0.2. Type : VC
- 0.3. Category of vehicle / object : Separate technical unit / Type of luggage rack
- 0.4. Name and address of the manufacturer : Thule Sweden AB
 Borggatan 5
 335 73 Hillerstorp, Sweden
- 0.5. No. of the information folder : VC.00
 - Date of issue : 2015-01-09
 - Date of last change : 2019-02-18

1. Tested vehicle(s) / object(s)

- 1.1 Description
 - 1.1.1 Vehicle / object : Luggage rack (bike rack) fitted on a tow bar
 - Commercial description : VeloCompact
 - Type(s) /variant(s) /version(s) : VC /
 VeloCompact
 - 924 (for transport of two bicycles)
 - 926 (for transport of three bicycles)
 - 9261 ("plus one" extension kit for VeloCompact 926)
 Coach
 - 274 (for transport of two bicycles)
 - 276 (for transport of three bicycles)
 - 2761 ("plus one" extension kit for Coach 276)
 goline
 - 2Bike 9240 (for transport of two bicycles)
 - Identification number : Lab. no. 935-7224658-04 (- 924, test date: 14.10.15)
 Lab. no. 935-7224658-05 (- 926, test date: 14.10.15)
 Lab. no. 935-7224658-06 (- 9261, test date: 14.10.15)
 Lab. no. 935-7284768-4 (-9240, test date: 08.02.19)
 - 1.1.2 Condition of vehicle(s)/Object(s) : new / prototype bike rack samples
 - 1.2 Worst case selection : The determination of worst case scenario was done according QMA 1.301.005, section 6.2.2.2.
 - 1.3. Remarks : All versions of the vehicle/object as stated in the information folder are covered by the tested vehicle version(s) and tested object(s) respectively.



Type : VC
 Manufacturer : Thule Sweden AB, SE-335 73 Hillerstorp

2. Test record

2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements. Calibration certificates were available. All tests were witnessed resp. performed by the expert of the Technical Service.

2.1.1. Specifications for the test site : Thule Test Center
 Thule Sweden AB
 Borggatan 5
 335 73 Hillerstorp, Sweden

2.1.2. Subcontracting : n/a

2.2. Test results

[5.] General specification [] numbering according to UN Regulation No. 26

[5.3.] The external surface of vehicles shall not exhibit, directed outwards, any parts likely to catch on pedestrians, cyclists or motor cyclists. : conforming

[5.4.] No protruding part of the external surface shall have a radius of curvature less than 2.5 mm. This requirement shall not apply to parts of the external surface which protrude less than 5 mm, but the outward facing angles of such parts shall be blunted, save where such parts protrude less than 1.5 mm. : n/a / see particular requirements for luggage racks and ski racks [6.16.2.]

[6.] Particular specifications

[6.16.] Luggage racks and ski racks

[6.16.1.] Luggage racks and ski racks shall be so attached to the vehicle that positive locking exists in at least one direction : conforming

and that horizontal, longitudinal and transverse forces can be transmitted which are at least equal to the vertical load-bearing capacity of the rack as specified by its manufacturer. : conforming



Capacity of the bike rack
 - VeloCompact 924 46 kg
 - VeloCompact 926 60 kg

Minimum test force
 - VeloCompact 924 451 N
 - VeloCompact 926 589 N

Applied test forces

- VeloCompact	924	926
a) lateral left:	496 N	652 N
b) lateral right:	514 N	752 N
c) forward:	478 N	734 N
d) rearward:	538 N	664 N

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For the test of the luggage rack or ski rack fixed to the vehicle according to the manufacturer's instructions, the test loads shall not be applied at one point only. : conforming For suitable load distribution the test force was applied in four directions to the frame of a bicycle installed on the individual bike rack. The bike rack was fixed to a standard tow bar. The bicycle was secured following the assembly instruction.

Note: The product modifications (see Appendix 0) do not require repetition of evaluation following [6.16.1.].

[6.16.2.] Surfaces which, after installation of the rack, can be contacted by a sphere of 165 mm diameter shall not have parts with a radius of curvature less than 2.5 mm, unless the provisions of paragraph 6.3. can be applied. : conforming Surfaces that can be contacted by the sphere as specified, are designed with radius of curvature of at least 2.5 mm (design details see Appendix 1; Photo documentation).

[6.16.3.] Fastening elements such as bolts that are tightened or loosened without tools shall not project more than 40 mm beyond the surfaces referred to in 6.16.2., the projection being determined according to the method prescribed in paragraph 2 of annex 3, but using a sphere of 165 mm diameter in those cases where the method prescribed in paragraph 2.2. of that annex is employed. : n/a

[6.18.] Assembly instructions
 [6.18.1.] Luggage racks, ski racks and radio receiving or transmitting aerials that have been approved as separate technical units may not be offered for sale, sold or purchased unless accompanied by assembly instructions. : conforming The assembly instruction is part of the information folder, Appendix 2.

The assembly instructions shall contain sufficient information to enable the approved components to be mounted on the vehicle in a manner that complies with the relevant provisions of paragraphs 5 and 6. : conforming

In particular, the positions of use must be indicated for telescopic aerials. : n/a



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- | | | |
|-------|--|--|
| 2.2.1 | Test results referring to measurements | : a) critical surfaces were determined by use of a sphere of diameter 165 mm
b) the test forces - section [6.16.1.] - were measured with a force measurement device with peak force memory. Test forces measured: see [6.16.1.].
c) the radius of curvature - section [6.16.2.] - was determined by use of a radius template. Measurement result: see Appendix 1. |
| 2.2.2 | Attributive tests | : By means of an assembly test the functional safety of the test object (version "VeloCompact 926" with extension kit "VeloCompact 9261") and the comprehensibility and integrity of all assembly instructions was evaluated with positive result. |
| 2.2.3 | Alternative and additional test provisions | : - The rigid surfaces corresponding to the outline contour of the test object's vertical projection, and located also close to the "floor line" of the test object are rounded with radius of curvature of at least 5 mm (e.g. housing of rear grouped lamps, lateral fenders).
- Installation of certified (ECE) rearward illumination devices - conformity evaluation ref. UN Regulations No. 48 and No. 4 (number plate illumination).
- Installation of rear number plate (location and visibility) - conformity evaluation ref. Commission Regulation (EU) No. 1003/2010.
- For determination of the endurance strength of the test object a fatigue test (sine and block profile) was performed with positive result. The test object was loaded following the specifications of the manufacturer (worst case evaluation).
- sine cycle (n = 10 ⁵ , f = 6,0 Hz, s = ± 6,4 mm)
- block profile (n = 10 ⁴ , f = 1,0 Hz, s = ± 4,5 mm)
Repetition of fatigue test to evaluate the base frame modification of variant "VeloCompact 924" (identical with variant "Coach 274"). |
| | Remarks concerning extension | n/a |
| 2.3. | Additional information | : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report. |
| | Test site | : D - Cologne |
| | Test date | : 08.02.2019 |
| 2.4. | Remarks | : n/a |



Type : VC
Manufacturer : Thule Sweden AB, SE-335 73 Hillerstorp

3. List of Appendices

Appendix 0 : List of modifications; 1 page
Appendix 1 : Photo documentation; 1 page
Appendix 2 : Information folder; No. VC.00, 83 pages

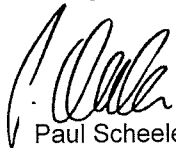
4. Statement of conformity

The in point 0.5. mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the vehicle(s)/object(s) described under point 1.1 of this report.

Cologne / 2019-02-18



Paul Scheele
Expert Technical Service





Type : VC
Manufacturer : Thule Sweden AB, SE-335 73 Hillerstorp

List of modifications

Appendix 0

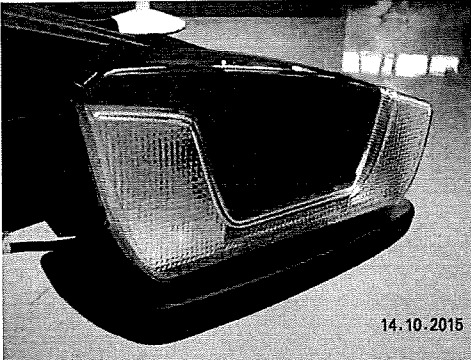

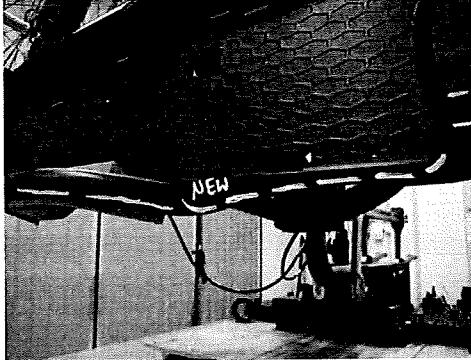
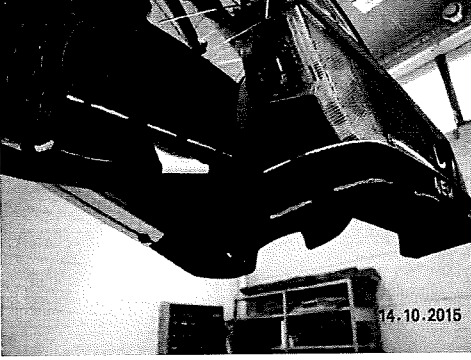
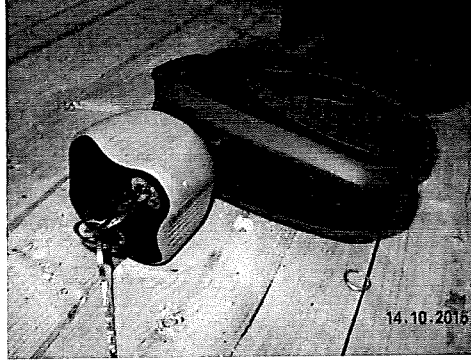
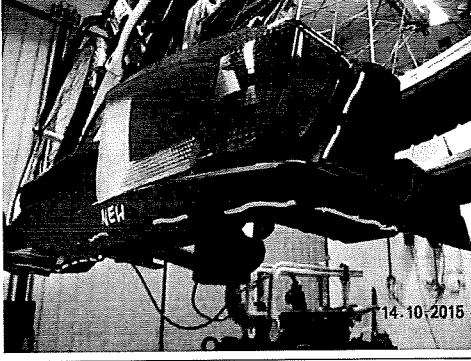


- Correction of : - Identification Information folder; No. VC.00
(was VC.01 for Extension 01)
- Modification of : - Handle assembly (all 3 bike variants)
- User instructions Thule VeloCompact 926, -927
- Update of product marking (all variants, Ext. 02)
- Addition of : - Commercial variant "goline 2Bike 9240"
- User instructions for variant "goline 2Bike 9240"
- Deletion of : - User instructions Thule VeloCompact 926, -927
(previous handle assembly)



Type : VC
 Manufacturer : Thule Sweden AB, SE-330 33 Hillerstorp

Photo documentation

Appendix 1

 <p>14.10.2015</p> <p>a)</p>	 <p>14.10.2015</p> <p>b)</p>															
 <p>NEW</p> <p>c)</p>	 <p>14.10.2015</p> <p>d)</p>															
 <p>14.10.2015</p> <p>e)</p>	 <p>14.10.2015</p>															
 <p>08.02.2015</p> <p>g)</p>	 <p>Radius evaluation Test samples variants "Coach" and "goline 2Bike 9240"</p> <table border="0"> <tr> <td>Housing of rear grouped lamps</td> <td>a) + b)</td> <td>R = 5,0 mm</td> </tr> <tr> <td>Numberplate holder and lamp holder</td> <td>c) + d)</td> <td>R = 5,0 mm R = 2,5 mm</td> </tr> <tr> <td>Hand knob (lockable)</td> <td>e)</td> <td>R = 2,5 mm</td> </tr> <tr> <td>Lamp holder</td> <td>f)</td> <td>R = 5,0 mm</td> </tr> <tr> <td>Variant "goline 2Bike 9240"</td> <td>g)</td> <td>see "Coach"</td> </tr> </table>	Housing of rear grouped lamps	a) + b)	R = 5,0 mm	Numberplate holder and lamp holder	c) + d)	R = 5,0 mm R = 2,5 mm	Hand knob (lockable)	e)	R = 2,5 mm	Lamp holder	f)	R = 5,0 mm	Variant "goline 2Bike 9240"	g)	see "Coach"
Housing of rear grouped lamps	a) + b)	R = 5,0 mm														
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Variant "goline 2Bike 9240"	g)	see "Coach"														