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Mr J Pol  
Thule Towing Systems B.V.

Your Reference:

Date: 12 November 2007

Dear Mr Pol

**MANUFACTURER OR ACCREDITED AGENT: Thule Towing Systems B.V.**

**EEC DIRECTIVE: 94/20**

Job No.	Component	Approval No.	Index Rev. No.
EAH182686	02-045700, non standard coupling balls 50	e11*94/20*6672*00	Not applicable

1. This component has been tested and meets the requirements of the above EEC Directive. I enclose a set of approval documents, comprising the approval, test report and your documentation duly authenticated.

2. If you think there are any errors in the enclosed package, please contact Andrew Meadows, telephone 0117 952 4187, e-mail [andrew.meadows@vca.gov.uk](mailto:andrew.meadows@vca.gov.uk) immediately. Please be aware that from the date of issue we have a three week holding period, any corrections required after this time will need to be corrected via an extension, index revision or correction 1 certificate, as appropriate.

**ROAD TRAFFIC ACT 1988 - SECTION 80**

3. The Secretary of State for Transport authorises, under section 80 of the Road Traffic Act 1988, the above manufacturer or accredited agent to apply to the motor vehicle type/part specified, the appropriate mark designated in the Motor Vehicles (Designation of Approval Marks) Regulations 1979, as amended. The conditions attached to this authorisation are set out overleaf.

4. If this approval results in a change being needed to a vehicle information document issued under the goods vehicle or passenger car national type approval scheme, you should notify us (i.e. submit a 'notifiable alteration') as soon as possible, using the address VCA (Whole Vehicle), Room 1.2, The Eastgate Office Centre, Eastgate Road, Bristol BS5 6XX.

5. VCA is continually scrutinising the quality of the service it provides to customers, in order to discover more ways in which the standard can be improved. If you have a specific complaint concerning the way this job has been dealt with, our customer services leaflet gives guidance on the best approach. If you would like a copy, please contact the undersigned.

Yours sincerely

Leslie Howard Rogers  
Product Certification



VCA Midlands Centre  
Nuneaton, Warwickshire, UK  
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Fax: +44 (0)247 632 9376  
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VCA China  
Beijing  
Telephone: +8610 852 83091/2/3  
Fax: +8610 852 830 97

## 1. CONDITIONS

1.1 This Approval may be withdrawn at any time and while held is subject to the following conditions.

## 2. CONDITIONS OF MOTOR VEHICLE PARTS

2.1 The holder of this approval shall put the approval mark described in the Motor Vehicles (Designation of Approval Marks) Regulations 1979 as amended only on Motor Vehicle Parts that:

- a. Have been manufactured, assembled or completed in factories under his control and
- b. Conform in all material respects with the samples, which were tested before this approval was issued.

2.2 The holder of this approval shall mark his products in the manner set out in the relevant Regulation/Directive as given in the Motor Vehicles (Designation of Approval Marks) Regulations 1979 as amended together with:

- a. The approval number allocated by the Secretary of State for Transport.
- b. His name or trademark
- c. Any other markings specified in the appropriate international Regulation

2.3 The holder of this approval shall be prepared at any time to satisfy Department for Transport officials or agents of the Department, that the quality of the part being produced and marked or intended to be by him with the approval marking conforms in all material respects with that of the samples tested as the International Regulation requires.

2.4 The holder of this approval undertakes to admit duly authorised officials or agents of the Department at all reasonable times to any premises in which parts marked or intended to be marked are being manufactured, assembled or stored and to permit any such official or agent to inspect parts and all records relating to them and their production processes.

2.5 This approval may be suspended or withdrawn by the Secretary of State for Transport at any time without any particular length of notice being given and in the event of that being done the holder will absolve the Secretary of State from any claim for damages or compensation.

## 3. CONDITIONS FOR MOTOR VEHICLES

3.1 The holder of this approval shall put the approval mark described in the Motor Vehicles (Designation of Approval Marks) Regulation 1979 as amended only on Motor Vehicles fitted with Motor Vehicle parts which Motor Vehicles as fitted with such parts conform with the type of Motor Vehicle approved by as on behalf of the Secretary of State for Transport and only on Motor Vehicles that:

- a. Have been manufactured, assembled or completed in factories under his control and
- b. Conform in all material respects with the type of Motor Vehicle, which was tested before an approval certificate was issued.

3.2 The holder of this approval shall mark motor vehicles of the type approved. In the matter set out in the relevant Regulation/Directive using the authorised approval mark as given in the Motor Vehicles (Designation of Approval Marks) Regulation 1979 as amended together with the approval number allocated by the Secretary of State for Transport.

3.3 The holder of this approval shall mark Motor Vehicles of the type approved in the manner set out in the relevant Regulation annexed to the United Nations agreement of 1958 as amended using the authorised approval mark which comprises a capital letter E followed by the number 11 within a circle together with the approval number allocated by the Secretary of State for Transport.

3.4 The holder of this approval shall be prepared at any time to satisfy Department for Transport officials or agents of the Department that Motor Vehicles of the type approved which have been produced and marked or that are intended to be marked by him conform in all material respects with the type of vehicle approved.

3.5 The holder of this approval undertakes to admit duly authorised officials or agents of the Department at all reasonable times to any premises in which the Motor Vehicles of the type approved which have been or are intended to be marked are manufactured, assembled or stored and to permit any such official or agent to inspect the Motor Vehicles and all records relating to them and their production processes.

3.6 This approval may be suspended or withdrawn by the Secretary of State for Transport at any time without any particular length of notice given and in the event of that being done the holder will absolve the Secretary of State from any claim for damages or compensation.



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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

Rev 1/03

COMMUNICATION CONCERNING THE GRANTING OF EEC TYPE APPROVAL AS A  
COMPONENT OF MECHANICAL COUPLING DEVICES FOR MOTOR VEHICLES AND THEIR  
TRAILERS PURSUANT TO DIRECTIVE 94/20/EC OF 30 MAY 1994 (STU)

Type Approval No<sup>(1)</sup>: e11\*94/20\*6672\*00

Reason(s) for Extension: Not applicable

Section I

- 0.1 Make (trade name of manufacturer): BRINK or THULE
- 0.2 Type and general commercial description(s): 02-045700, non standard coupling balls 50
- 0.3 Means of identification of type if marked on the component<sup>(2)</sup>: Make (Trade name), type and class
- 0.3.1 Location of that marking: Type plate on socket plate
- 0.5 Name and address of manufacturer:
- Thule Towing Systems B.V  
Industrieweg 5  
7951 CX  
Staphorst  
The Netherlands
- 0.7 In the case of components and separate technical units, location and method of affixing of the EEC approval mark: Type plate on socket plate, riveted



0.8 Name(s) and address(es) of assembly plants:

Thule Towing Systems B.V.  
Industrieweg 5  
7951 CX  
Staphorst  
The Netherlands

Thule Towing Systems B.V.  
Stephensonstraat 6  
7903 AV Hoogeveen  
The Netherlands

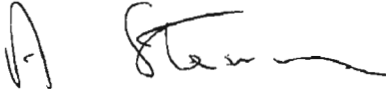
Thule Towing Systems SARL  
ZAC des Naux  
51450 Betheny  
France

Thule Towing Systems A/S  
Glasmagervej 21  
Fensmark  
4684 Holmegaard  
Denmark

Thule Towing Systems AB  
Industrigatan 8  
46228 Vänersborg  
Sweden



Section II

1. Additional information (where applicable): See appendix I
2. Technical service responsible for carrying out the tests: TÜV SÜD Automotive GmbH
3. Date of test report: 7 November 2007
4. Number of test report: 07-00485-CX-GBM
5. Remarks (if any): See appendix I
6. Place: BRISTOL
7. Date: 12 NOVEMBER 2007
8. Signature:  A. W. STENNING  
Head of Product Certification
9. The index to the information package lodged with the competent authority that has granted type approval, which may be obtained on request, is attached.

EAH182686



**APPENDIX I**

to EEC Type Approval Certificate No: e11\*94/20\*6672\*00  
concerning the component type-approval of mechanical coupling devices  
with regard to Directive 94/20/EC

## 1. ADDITIONAL INFORMATION

1.1 Class of type of coupling: A50-X

1.2 Categories or types of vehicles for which the device is designed or restricted: M, N

1.3 Maximum D-value: 17.2 kN

1.4 Maximum vertical load S at the coupling point: 120 kg

1.5 Maximum load U at the fifth wheel coupling point: Not applicable

1.6 Maximum V-value: Not applicable

1.7 Instructions for attachment of the coupling type to the vehicle and photographs or drawings of the fixing points at the vehicle given by the manufacturer; additional information if the use of the coupling type is restricted to special types of vehicles: See manufacturer's fitting instructions

1.8 Information on the fitting of special towing brackets or mounting plates: Not applicable

5. Remarks<sup>(1)</sup>: None



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Web: [www.vca.gov.uk4171](http://www.vca.gov.uk4171)

APPROVAL NUMBER: e11\*94/20\*6672\*00

## INFORMATION PACKAGE CONTENTS

### INDEX

**REVISION NUMBER: Not applicable**

Total number of sheets:	7 (Seven)
Number of separate drawings:	0 (Nil)
Number of separate photographs:	0 (Nil)

Reasons for Revision: Not applicable

EAH182686

Revision date  
&  
Office stamp



relating to the EEC Type Approval as a component of Mechanical Coupling Devices for Motor Vehicles and their Trailers (94/20/EG).

0 GENERAL

0.1 Make (trade name of Manufacture): Brink or Thule.

0.2 Type and commercial description(s): 02-045700

0.5 Name and address of manufacturer: Thule Towing Systems B.V., Industrieweg 5, NL-7951 CX, Staphorst

0.7 In the case of components and separate technical units, location and method of affixing of the EEC approval mark: type plate on socket plate.

0.8 Address(es) of assembly plants(s): **Thule Towing Systems B.V.**, Industrieweg 5, NL-7951 CX Staphorst, The Netherlands / **Thule Towing Systems B.V.**, Stephensonstraat 6, NL-7903 AV Hoogeveen, The Netherlands / **Thule Towing Systems A/S**, Glasmagervej 21, Fensmark, DK-4684 Holmegaard, Denmark / **Thule Towing Systems AB**, Industrigatan 8, SE-46228 Vänersborg, Sweden / **Thule Towing Systems SARL**, ZAC des Naux, F-51450 Bétheny, France

1 CONNECTIONS BETWEEN DRAWING AND TRAILERS SEMI-TRAILERS

1.1 Detailed technical description (including drawings and material specifications) of the type of the mechanical coupling device: See drawing nr. 02-045700 of 28-04-1983 Change I dtd 31-10-2007

1.2 Class and type of the coupling device(s): A50-X

1.3 Maximum D-value (1): 17.2 kN

1.4 Maximum vertical load S at the coupling point (1): 120 Kg

1.5 Maximum load U at the fifth wheel coupling (1): -- t

1.6 Maximum V-value (1): -- kN

1.7 Instructions of attachment of the coupling type to the vehicle and photographs or drawing of the fixing points at the vehicle given by the manufacturer; additional information if the use of the coupling type is restricted to special types of vehicles:  
see fitting instructions type 02-045700 dated 7/10/2007

1.8 Information of the fitting of special towing brackets or mounting plates (1):  
--

Staphorst, 2/11/2007





**Enclosures in triplicate:**

-1 drawing nr: 02-045700 Sheet	01 from	28-04-1983 Change	I dtd	31-07-2007
-1 drawing nr: 02-045700 Sheet	2 from	1/11/2007		
-1 drawing nr: 02-010000 Sheet	1 from	30-10-1991 Change	E dtd	21-11-2000
-1 drawing nr: 02-002800 Sheet	1 from	2/13/1989 Change	B dtd	25-03-1994

Fitting instructions      02-045700      from      7/10/2007


Confirmation



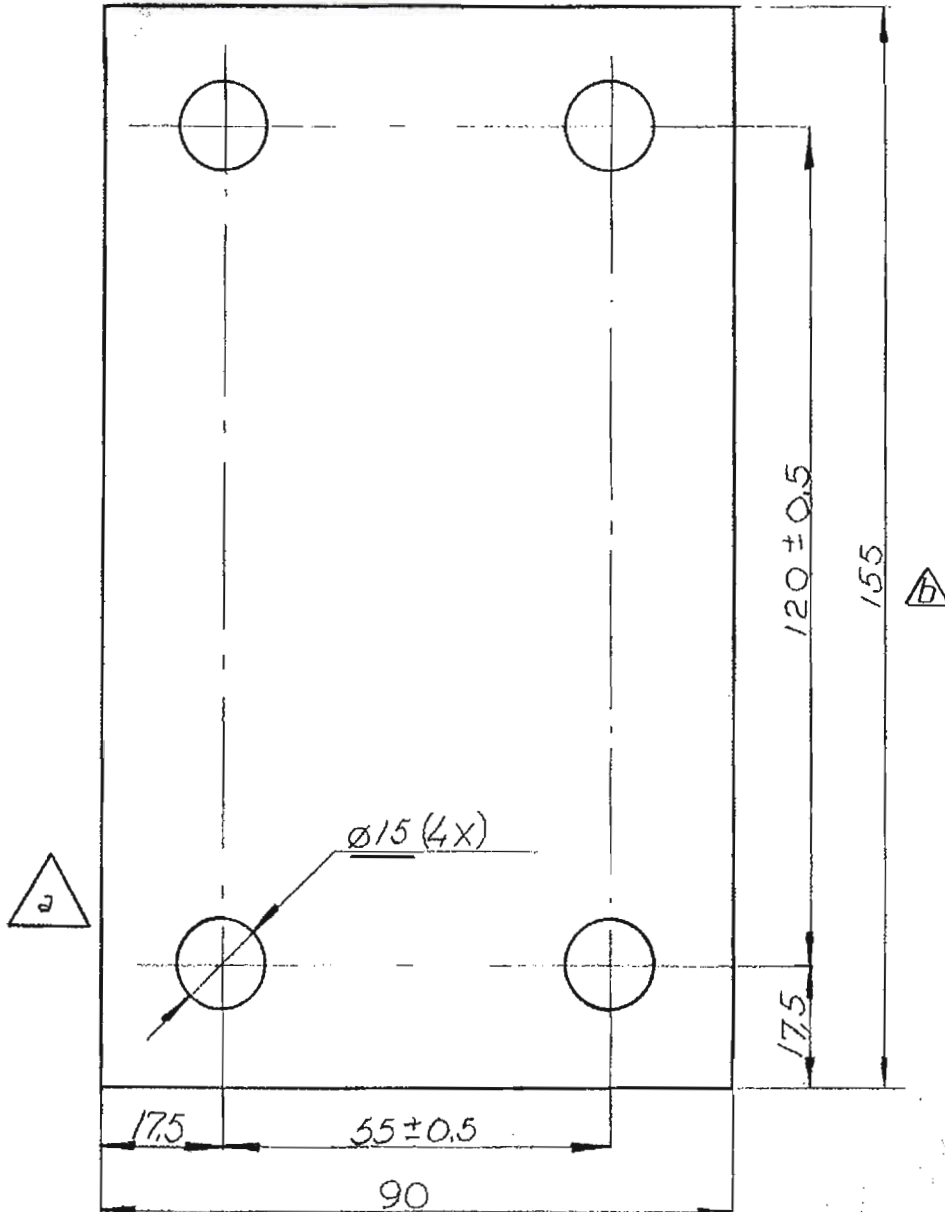


SERIAL NUMBER

<b>BRINK</b> DRAGANORDNING / TOW BAR	
A 50-X	D 17.2kN
S 120kg	XXXX
DETALJNUMMER/PART NUMBER 02-045700	
e11 6672-00	3500 kg
TILLVERKARE/MANUFACTURER: BRINK SVERIGE AB, SWEDEN	

Där ej annat angivits gäller Unless otherwise stated, the following applies		Material <b>POLYESTER</b>	
Måttoleranser / Size tolerances		Formvår eller ämne/Form	
Bearbetade ytor/Machined surface	Icke bearb. ytor/Unmachined surface	Vikt/Weight	
Ytämne/Surface texture	Ytbehandlad/Surface treated	Designed by	
JF	JF	Revision	Approved by
		P	MK
 THULE TOWING SYSTEMS AB S-462 28 VÄNERSBORG SWEDEN		Benämning/Title <b>TYPE PLATE FOR</b> <b>02-045700 - 2</b>	
Replaced By		Skala/Scale	
Replaces		2:1	
Ritn.-nr/Drawing No		Proj	
		Date	
		072101 Nov-07	
		UK Approval Authority	

ÄM nr	Nr	Ändring Modification	Datum	Inf.	Godk.	
1971	a	∅ 15 (4x) VAR ∅ 13 (4x)	860910	CL	Lj	11-11-1988
3110	b	SE ÄM	940325	GE	PH	



Ingår i

Där ej annat angivits gäller Unless otherwise stated, the following applies		Sigg <b>PLJ 10</b>		Formvara eller ämne Form	
Måttoleranser Bearbetade ytor Machined surface $\pm \frac{IT 14}{2}$		Type		Kvalitet Quality <b>SS 1312</b>	
Storlektoleranser Icke bearbetade ytor Unmachined surface $\pm \frac{IT 17}{2}$		Material		Tillstånd	
Ytjämnhet Surface texture		Ytbehandling Surface treated		Condition	
Rårum		Konstr.		Ritad <b>TP</b>	
Grader tillåts icke Burrns not permitted		Skarpa kanter brutna Sharp edges broken		Kontr.	
Benämning Title <b>FÄSTPLATTA</b>		Skala Scale		Proj. <b>VBO</b>	
VBC-PRODUKTER SLÄPVAGNSKOPPLINGAR AB S-462 01 VÄNERSBORG SWEDEN		Ersätter		Datum <b>12-Nov-07</b>	
Ritn.nr Drawing No. <b>P 02-02800</b>					



## Type no: 02-045700

### Ball bracket, 50mm

- Couplings class : A 50-X
- Approval number : e11\*94/20\*6672\*00
- D-Value : 17,2 kN

Tested according to 94/20/EC

### **FITTING INSTRUCTIONS:**

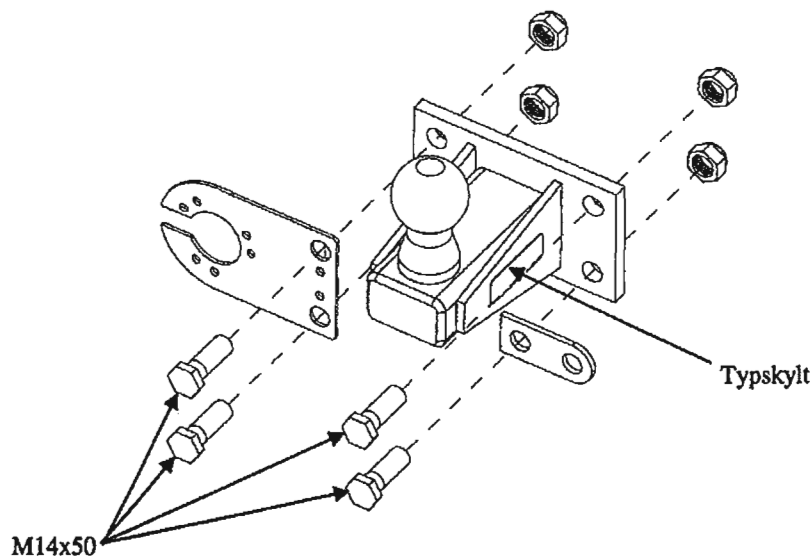
1. Fit the ball bracket using the detached mounting kit.
3. Tighten the 4 nuts and bolts to the torque indicated in the table below.

### **Torque settings for nuts and bolt (8.8)**

M14 - 125 Nm

### **NOTE!**

- It is recommendable to retighten all fixing bolt and nuts after the ball bracket has been used for 1000km.



### **INCLUDED PARTS**

BALL BRACKET	02-045700
PLASTIC PLUG	02-056400
MOUNTING KIT	02-045700



Techn. Report No.:	07-00485-CX-GBM	TA-CX/GAR
Manufacturer:	Thule Towing Systems B.V.	94/20/EC
Type:	02-045700	Page 1 of 3

## TECHNICAL REPORT 07-00485-CX-GBM

(Provisional approval number e11\*94/20\*6672\*00)

Test according to the EC-directive for mechanical coupling devices of motor vehicles and their trailers and their attachment to those vehicles

No. 94/20/EC dated 30.05.1994 including all changes on No.2006/96/EC

### 0. Technical description

- 0.1. Make: BRINK or THULE
- 0.2. Type / commercial description: 02-045700 / non standard coupling balls  
50
- 0.3. Means of identification of type: make (trade name), type and class
- 0.3.1. Location of that marking: type plate on socket plate
- 0.5. Name and address of the manufacturer: Thule Towing Systems B.V.  
Industrieweg 5  
NL-7951 CX, Staphorst  
Netherlands
- location and method of affixing the EC approval mark: type plate on socket plate,  
riveted
- 0.8. Names and addresses of assembly plants:

**Thule Towing Systems B.V.**  
Industrieweg 5  
NL-7951 CX, Staphorst

**Thule Towing Systems B.V.**  
Stephensonstraat 6  
NL - 7903 AV Hoogeveen

**Thule Towing Systems SARL**  
ZAC des Naux  
F - 51450 Bétheny

**Thule Towing Systems A/S**  
Glasmagervej 21, Fensmark  
DK - 4684 Holmegaard

**Thule Towing Systems AB**  
Industrigatan 8  
S - 46228 Vänersborg





Techn. Report No.:	07-00485-CX-GBM	TA-CX/GAR
Manufacturer:	Thule Towing Systems B.V.	94/20/EC
Type:	02-045700	Page 2 of 3

## I. Additional information

- 1.1. Class and type of coupling: A50-X, 02-045700
- 1.2. Categories or types of the vehicles: M, N
- 1.3. Maximum D-value (kN): 17,2
- 1.4. Maximum vertical (static) load S at the coupling point (kg): 120
- 1.7. Instructions for attachment of the coupling type to the vehicle and photographs or drawings of the fixing points at the vehicle given by the manufacturer; additional information if the use of the coupling type is restricted to special types of vehicles:
- see manufacturer's fitting instructions

## II. Test record

The test has been carried out on a quite similar Thule coupling device type 4454. The below listed test results also apply for the above mentioned coupling device type 4456.

### 2.1. Test conditions

Test load (kN):	± 10,35 (alternating load)
Angle of test load (°)	+ 15
Frequency (Hz):	9
Load cycles	2 x 10 <sup>6</sup>

### 2.2. Test result

The test sample withstood the dynamic fatigue test without cracks checked by penetrating means.

2.3. Date of test: 01.06.2007







Techn. Report No.:	07-00485-CX-GBM	TA-CX/GAR
Manufacturer:	Thule Towing Systems B.V.	94/20/EC
Type:	02-045700	Page 3 of 3

### III. Enclosures

See information document no. 02-045700 dated 02.11.2007

### IV. Final Confirmation

The mechanical coupling device type 02-045700 corresponds to the EC directive no. 94/20/EC dated 30-05-1994 including all changes no. 2006/96/EC.

Test equipment, facilities and test site fulfilled the requirements of the applicable legislation.

This technical report consists of 3 pages.



Official recognized expert  
Dipl.-Ing. J. Westphaling

Garching, 07.11.2007

wes/os5

