EC TYPE - EXAMINATION CERTIFICATE

Directive 95/16/EC, Annex Vb

Notified Body:	**TÜV AUSTRIA HELLAS** 429, Mesogeion Ave. GR-15343 Athens, Greece
Certificate number:	**TAH-LM/14/005**
Notified Body Identification Number:	**0906**
1. Name and address of the certificate holder:	**KLEEMANN HELLAS S.A.** Kilkis Industrial Area GR-61100 Kilkis, Greece
2. Name and address of the manufacturer:	**KLEEMANN HELLAS S.A.** Kilkis Industrial Area GR-61100 Kilkis, Greece
3. Description of the product:	Traction Passenger Lift
4. Trademark, type:	**Kleemann, Maison T plus**
5. Installation place of the type sample:	KLEEMANN HELLAS S.A. Kilkis Industrial Area GR-61100 Kilkis, Greece
6. Date of the examination application submission:	03.02.2014
7. Dates of the examination:	February 2014 – May 2014
8. Inspection Body:	TÜV AUSTRIA HELLAS
9. Applied EC Directives:	**Lift Directive 95/16/EC**
10. EC type-examination report number and date:	RT-LM/14/005 – 07/05/2014
11. **Data for identifying the type / Conditions of validity** General Data:	Machine Room Less, Gearless Nominal Load 320 kg, 450 kg Maximum Speed 0.40 m/s Maximum Travel 12 m
Annexes with this certificate:	The report of point 10 is attached to the Certificate

EXAMINATION CONCLUSION:

The technical file submitted and the sample of the type of the product meets the essential health and safety requirements of the Lift Directive 95/16/EC.

Additional information:

The manufacturer / certificate holder must inform the Notified Body of all modifications to the approved type.

Issued in Athens, 08/05/2014

Ioannis Kallias
General Manager

ΕΣΥΔ
Product Certification
No. of Certificate 49-4

TÜV AUSTRIA GROUP

EC TYPE – EXAMINATION REPORT

Directive 95/16/EC, Annex Vb

Notified Body:	**TÜV AUSTRIA HELLAS** 429, Mesogeion Ave GR-153 43 Athens, Greece
Report number:	**RT-LM/14/005**
Notified Body Identification Number:	**0906**
1. Name and address of the manufacturer:	**KLEEMANN HELLAS S.A.** Kilkis Industrial Area GR-61100 Kilkis, Greece
2. Description of the product:	Traction passenger lift
3. Trademark, type:	**Kleemann, Maison T plus**
4. Installation place of the type sample:	KLEEMANN HELLAS S.A. Kilkis Industrial Area GR-61100 Kilkis, Greece
5. Date of the examination application submission:	03.02.2014
6. Dates of the examination:	February 2014 – May 2014
7. Inspection Body:	TÜV AUSTRIA HELLAS
8. Applied EC Directives:	**Lift Directive 95/16/EC**
9. Inspector:	Panagiotis Kontoulis

10. TYPE DESCRIPTION

Basic specifications	Roping	2:1	
	Nominal load Q (kg)	320	450
	Car available area	According to EN 81-1 + A3 /clause 8.2.1	
	Minimum / Maximum suspended load (P+Q)	710 – 1130 kg	970 – 1130 kg
	Maximum travel	12 m	
	Maximum speed	0,40 m/s	
	Max. Car entrances	2	
Machinery	Main machinery	Gearless Torin Drive VM450	
	Machinery space	Top of the shaft (MRL)	
	Drive	VVVF (inverter) / U Control, CH 1000	
	Controller	U Control, CH 1000 / In a cabinet located next to the landing door at the upper landing	
Guide rails	Car guide rails	T 75x62x10	
	Counterweight guide rails	T 50x50x5	
	Max distance between guide rail brackets (car / counterweight)	1250 mm	

Suspension means	Rope type / Breaking load	Drako, 250T Ø 8mm / 43300 N
	Number of ropes	4
	Traction sheave diameter / type, groove angle γ / undercut angle β	Ø200mm / U with undercut, 30° / 75°
Shaft	Landing doors	Automatic or Semiautomatic (single leaf) hinged doors
	Min. pit depth	200 mm*
	Min headroom	2600 mm* (for car exterior 2300 to 2340mm)
	Note: *Dimensions marked with * deviate from EN 81-1+A3/clauses 5.7.1 and 5.7.3. Therefore, protection means are provided to ensure the necessary safety spaces.*	
Car	Car door description	Automatic sliding or folding (BUS)
	Overload device	Ningbo ANT Electronic Co / OMS – 710

11. SAFETY COMPONENTS

Component	Type	Manufacturer
Downwards overspeed protection	Instantaneous safety gear 1410315-D	Kleemann Hellas
Upwards overspeed protection and protection against unintended car movement	Machine brake PZ300B	Suzhou Torin Drive Equipment Co
Overspeed governor	Star	Dynatech
Car buffers	080080 (2 pieces)	BASF
Counterweight buffers	080080 (1 piece)	BASF
Door locking device	EΘ 1 A/B EΘ 2 A/B PRC2-40/10 PRC2-50/11 PRC4-40/10 PRC4-50/11 PRC6-50/11 PRT2-40/10 / PRD2-40/10 PRT2-50/11 / PRD2-50/11	Gea Zita Gea Zita Klefer – Tecnolama Klefer – Tecnolama Klefer – Tecnolama Klefer -Tecnolama Klefer -Tecnolama Klefer -Tecnolama Klefer -Tecnolama

12. Additional basic safety measures during the operation – maintenance - inspection

1. The well have to be totally enclosed by imperforate walls, floor and ceiling, according to the provisions of EN 81-1+A3/clause 5.2.1.1.

2. Maison T plus can be installed in shafts with low pit or/and headroom clearances. In these cases the lift is equipped with extra safety measures according to the following provisions:

Reduced pit clearance

- ✓ A monitoring unit is provided in the landing doors providing access to the pit in conjunction with a safety system according to EN 81-21/clause 5.7.3.
- ✓ A mechanical movable blocking device is provided for blocking the car's downwards travel. When the blocking device is adjusted to the guide rails ensures the necessary safety spaces provided by EN 81-21/clause 5.7.2.3.
- ✓ In cases that the pit depth does not allow for a normal car apron, the car apron can be either of telescopic or retractable type and shall be in accordance to EN 81-21/clause 5.8.
- ✓ A visible or/and audible indication for the information about the position (active and not active) of the mechanical movable blocking device is installed in accordance to EN 81-21/clause 5.7.4.

Reduced headroom clearance

- ✓ A monitoring unit is provided in the landing doors providing access to the car roof in conjunction with a safety system according to EN 81-21/clause 5.5.3.
- ✓ A mechanical movable blocking device is provided for blocking the counterweight's downwards travel. When the blocking device is adjusted to the guide rails ensures the necessary safety spaces provided by EN 81-21/clause 5.5.2.3.
- ✓ In cases that the headroom does not allow for a normal car roof balustrade, the balustrade can be of extendable type and shall be in accordance to EN 81-21/clause 5.6.
- ✓ A visible or/and audible indication for the information about the position (active and not active) of the mechanical movable blocking device is installed in accordance to EN 81-21/clause 5.5.4.

3. Maison T plus is equipped with protection means against unintended car movements away from the landing with the landing door not in the locked position and the car door not in the closed position, according to EN 81-1+A3/clause 9.11. The said protective measurers are the machine brake in conjunction with special software in the controller.

13. Examinations and tests

The type – examination procedure was partially based on the Standards EN 81-1+A3 and EN 81-21. For issues not covered by or not complying with the above Standards, risk assessment methodology was applied and protective measures were adopted.

The type – examination included:

A. Examination of the technical file

The following parts of the product's technical file were examined:

- General description of the product and explanations necessary for understanding its operation
- Design and manufacturing drawings of the product and diagrams of the power and control circuits
- Calculations (car guide rails, suspension ropes, sheaves, traction evaluation)
- Certificates of the safety components
- Risk assessment – protective measures
- Instructions manual of the product

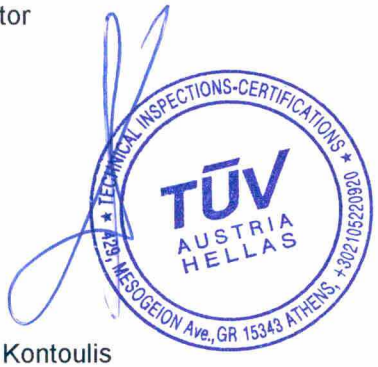
B. Inspections and tests were carried out in the sample of the type of the product in order to verify that it was manufactured in conformity with the technical file.

14. Examination Conclusion

The technical file submitted and the sample of the type of the product were found to meet the essential health and safety requirements of the Lift Directive 95/16/EC.

Athens, 07/05/2014

The inspector



Panagiotis Kontoulis
Head of
TÜV AUSTRIA HELLAS
Lifts & Lifting Appliances Division

TÜV AUSTRIA HELLAS

Kleemann, Maison T plus