



CERTIFICATE

EU Type – Examination



According to Directive 2014/33/EU, (Module B, annex IV)
Certificate No: LF/KSA/A-C-0175/ 17

Identification No of Certification body:

MIRTEC s.a 0437

Name & Address

of the Certificate Holder :
 of the Manufacturer:

TEKİN MAKİNA SANAYİ A.Ş.

75. YIL OSB MAHALLESİ 2006. CADDE NO: 33 ODUNPAZARI
 / ESKİŞEHİR, TÜRKİYE

Date of Submission for
 EU Type-Examination :

17/10/2011

Product of Safety Component:

**Instantaneous safety gear
 with 1 roller
 and part of a protection system against
 unintended car movement
 T3**

Type:

Applicable Standards:

2014/33/EU, annex I,
 EN 81-50:2014 § 5.3.2, § 5.8.
 EN 81-20:2014 § 5.6.2.1, § 5.6.7.

Examination Period:

October 2011, October 2017

Test Laboratory :

MIRTEC

Place of testing:

A' Industrial Area GR38500, Volos

Date & No of laboratory Report:

LF/A-R-1192b/11, 26/10/2011
 LF/KSA/A-R-0175/17, 20/10/2017

Documents annexed:
 to the Certification:

Product description, Drawings ,
 Installation & maintenance instructions, Material list
 ANNEX 1

Field of application

Load, speed, guide rails :

Validation conditions / Additional instructions:

The production of the safety gear falls under random inspections from the certification body.
 For all changes on the materials, drawings and production-assembly methods the certificate holder must inform the certification body.

The safety gear housing should have a label with the necessary information
 (Sr.Nr, Year of production, Field of application Load, speed, and guide rails)

Result of the examination - Declaration:

Herewith we certify that the type of the product mentioned above, meets the requirements of the Directive 2014/33/EU.

Only the products detailed in the test report have been subjected to tests.

Date of issue:

**26.10.2011 Revision 06/11/2017
 Reissued on 20/07/2026**

For MIRTEC S.A.

Signed by:

CHRISTOS SPILIOTOPOULOS

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C. SPILIOTOPOULOS

Certification department of lifts





ANNEX 1

Part of the EU Type-examination LF/KSA/A-C-0175/17

(Reissued on 20/07/2026)



Field of application

Max. Nom. Speed :

Car downwards: 0.63 m/s,

Counter weight or Balancing weight: 1.0 m/s

Max. tripping speed by overspeed governor:

Car: 1.0 m/s,

Counter weight : 1.0 m/s

Tripping speed by lifts with rupture valve

Min: 115% of the nominal speed downwards

Max: as the overspeed governor .

Guide rails :

Thickness 16 mm, Min gripping area 30 mm

Allowable total mass:

The max. allowable mass of empty car with relevant car components and nominal rated load-mass or balancing weight mass, in relation to the tripping speed of the overspeed governor , for one pair of the safety gear. :

tripping speed of the overspeed governor (m/s)	max. allowable mass (F+Q),(Kg) for Guide rails, thickness 16mm
0.50	3379
0.60	3251
0.70	3112
0.80	2966
0.90	2816
1.00	2665
1.20	2371
1.40	2097
1.65	1793

This instantaneous safety gear may be used as a stopping element in a protection system against unintended car movement. It has been tested at different low speeds for this scope and it is assured that allows the stopping of the car in the ranges of stopping distances that refers to 5.6.7.5. of the standard EN 81-20.

Certification department of lifts

Signed by:

CHRISTOS SPILIOTOPOULOS

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C. SPILIOTOPOULOS



ANNEX 2 (Guiderails 16mm)

Part of the EU-Type examination LF/KSA/A-C-0175/17

Safety gear type: Calculations according to EN 81-50 § 5.3.2.3.

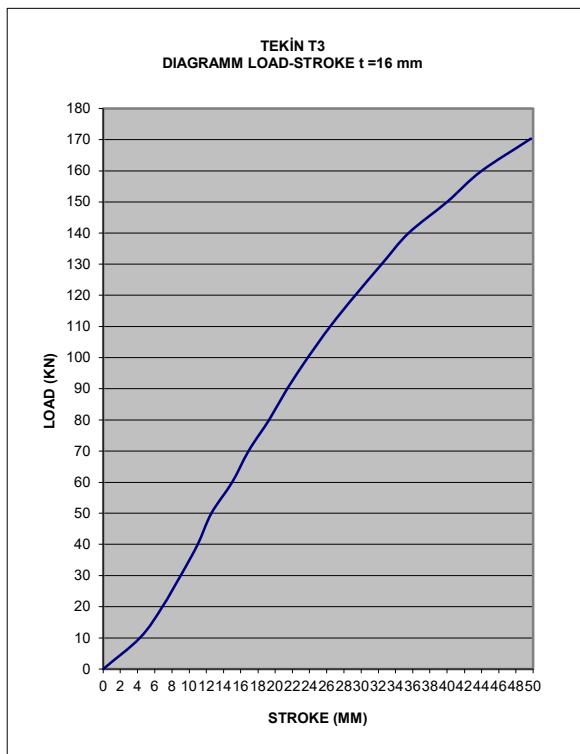
INSTANTANEOUS SAFETY GEAR WITH 1 ROLLER

TYPE : T-3

(DIAGRAM LOAD-STROKE) Guiderails 16 mm Thickness

Η δοκιμή έγινε στα εργαστήρια της EBETAM A.E στον Βόλο στις 17/10/2011

Test performed in Mirtec's Lab in Volos 17/10/2011



ΥΠΟΛΟΓΙΣΜΟΙ CALCULATIONS

Υψος ελεύθερης πτώσης: (h: Height of free fall)
 $h_i = V_i^2 / (2 \cdot g) + 0.1 + 0.03$ (V: Relevant speed)

h1=	0,269	V1	1,65 m/s
h2=	0,230	V2	1,4 m/s
h3=	0,203	V3	1,2 m/s
h4=	0,181	V4	1 m/s
h5=	0,171	V5	0,9 m/s
h6=	0,163	V6	0,8 m/s
h7=	0,155	V7	0,7 m/s
h8=	0,148	V8	0,6 m/s
h9=	0,143	V9	0,5 m/s

tripping speeds of regulator according to
 EN 81-50 § 5.6.2.2.1. and EN 81-20 §5.6.2.1.2.

Συνολική απορροφούμενη ενέργεια σε J:

$(P+Q) = (2/l) \cdot K_{ol} / g \cdot h$

(Absorbed Energy in J) K_{ol}=4731,6

Με τη βοήθεια του σχεδιαστικού πακέτου AUTOCAD
 2002 λαμβανω ως επιφανεια του διαγράμματος
 μετακίνησης - δυναμής: **K_{ol}=4731,6**

Λαμβάνεται συντελεστής ασφαλείας l=2 για τους υπολογισμούς

Επομένως έχουμε:

$$(P+Q) = (2/2) \cdot K_{ol} / g \cdot h$$

Για h1=	0,269	V1=	1,65	(P+Q) 1=	1793 Kg
Για h2=	0,230	V2=	1,40	(P+Q) 2=	2097 Kg
Για h3=	0,203	V3=	1,20	(P+Q) 3=	2371 Kg
Για h4=	0,181	V4=	1,00	(P+Q) 4=	2665 Kg
Για h5=	0,171	V5=	0,90	(P+Q) 5=	2816 Kg
Για h6=	0,163	V6=	0,80	(P+Q) 6=	2966 Kg
Για h7=	0,155	V7=	0,70	(P+Q) 7=	3112 Kg
Για h8=	0,148	V8=	0,60	(P+Q) 8=	3251 Kg
Για h9=	0,143	V9=	0,50	(P+Q) 9=	3379 Kg



Certification Dept. MIRTEC S.A.

Signed by: **CHRISTOS SPILIOTPOULOS**

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Σελίδα 3 από 3