

CERTIFICATE

EU Type – Examination

According to Directive 2014/33/EU, (Module B, annex IV)

Certificate No: LF/KSA/A-C-0174/ 17

Identification No of Certification body:

MIRTEC s.a **CE** 0437

Name & Address

of the Certificate Holder :
of the Manufacturer:

TEKİN MAKİNA SANAYİ A.Ş.
ORGANİZE SANAYİ BÖLGESİ 2. CADDE NO: 4 26110
ESKİŞEHİR, TÜRKİYE

Date of Submission for
EU Type-Examination :

03/10/2006

Product of Safety Component:

**Instantaneous safety gear
with 1 roller
and part of a protection system against
unintended car movement
T2**

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:

November 2006, October 2017

Test Laboratory :

MIRTEC

Place of testing:

Industrial Area GR57022 Sindos, Thessaloniki

Date & No of laboratory Report:

LF/A-R-1120/06, 27/10/2006
LF/KSA/A-R-0174/17, 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 :

22.11.2006 Revision 06/11/2017

For EBETAM A.E

I. Dimitriadis
Director of Athens Office

Certifying department for lifts

C Spiliotopoulos
Inspector of Lifts

EBETAM A.E.
CERT - safecomp / EN 03 (5.0 / 24.10.2016)
AET:29048

Cooperative office in Istanbul; GCN - TURK ULUSLARARASI GÖZETİM BELGELENDİRME LTD. ŞTİ. Atak Plaza - Tavukçuyolu Cad. Demirtürk Sok. No:15 Y. Dudullu / İstanbul / TÜRKİYE Phone: +90 216 420 08 08 fax: +90 216 313 44 19 e-mail: scav@genturk.com <http://www.genturk.com/>

ANNEX 1

Part of the EU Type-examination LF/KSA/A-C-0174/17

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 9 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 9mm
0.50	2057
0.60	1979
0.70	1894
0.80	1805
0.90	1714
1.00	1622
1.20	1443
1.40	1277
1.65	1092

This progressive 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 Dept. EBETAM

C. SPILIOPOULOS



EBETAM A.E.

www.ebetam.gr
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ANNEX 2 (Guiderails 9mm)

Part of the EU-Type examination LF/KSA/A-C-0174/17

Safety gear type:

Calculations according to EN 81-50 § 5.3.2.3.

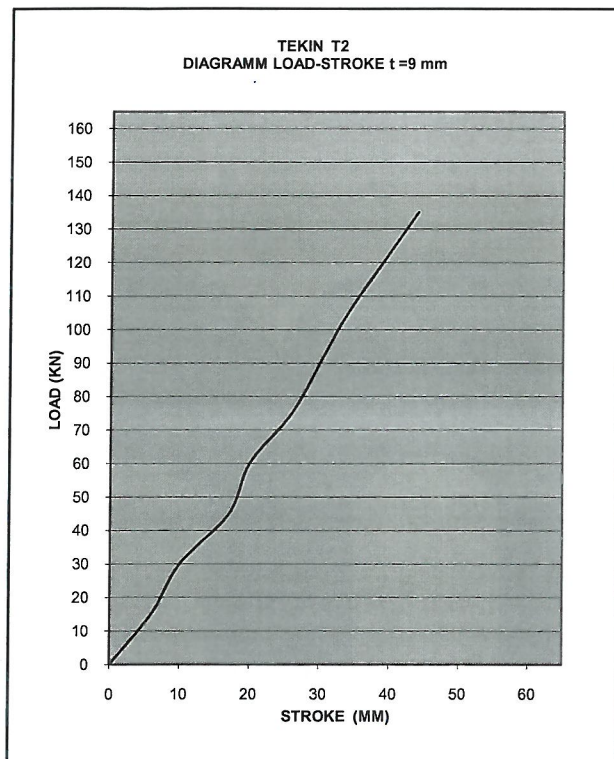
INSTANTANEOUS SAFETY GEAR WITH 1 ROLLER

TYPE : T2

(DIAGRAM LOAD-STROKE) Guiderails 9 mm Thickness

Η δοκιμή έγινε στα εργαστήρια του Παραρτήματος της EBETAM Α.Ε στη Θεσσαλονίκη στις 27/10/2006

Test performed in Mirtec Lab in Thessaloniki 27/10/2006



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:

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

Με τη βοήθεια του σχεδιαστικού πακέτου AUTOCAD

2002 λαμβανω ως επιφάνεια του διαγράμματος

μετακίνησης - δυναμής:

(Absorbed Energy in J)

Kol= 2880

Λαμβάνεται συντελεστής ασφαλείας l=2 για τους υπολογισμούς λόγω του ότι βρισκόμαστε στην
ελαστική περιοχή. Επομένως έχουμε: (Factor 2 because the values of diagramm under the elastic limit)

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

Για h1= 0,269	V1= 1,65	(P+Q) 1= 1092 Kg
Για h2= 0,230	V2= 1,40	(P+Q) 2= 1277 Kg
Για h3= 0,203	V3= 1,20	(P+Q) 3= 1443 Kg
Για h4= 0,181	V4= 1,00	(P+Q) 4= 1622 Kg
Για h5= 0,171	V5= 0,90	(P+Q) 5= 1714 Kg
Για h6= 0,163	V6= 0,80	(P+Q) 6= 1805 Kg
Για h7= 0,155	V7= 0,70	(P+Q) 7= 1894 Kg
Για h8= 0,148	V8= 0,60	(P+Q) 8= 1979 Kg
Για h9= 0,143	V9= 0,50	(P+Q) 9= 2057 Kg

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