

CERTIFICATE

of constancy of performance

1922 - CPR - 0873

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Fire detection and fire alarm systems. Fire alarm devices. Sounders and Visual alarm devices. tekrim TFS-3192 Conventional Fire Alarm Siren with Strobe.

(For list of controlled characteristics, see Annex I and Annex II to 1922 - CPR - 0873 that are an inseparable part of this certificate)

placed on the market under the name or trade mark of

Bilgi Elektronik San. ve Tic. A.Ş.

**Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi No:1, Kat:2
No.32 Ümraniye, İstanbul, Turkey**

and produced in the manufacturing plant

Bilgi Elektronik San. ve Tic. A.Ş.

**Dudullu Organize Sanayi Bölgesi 1. Cadde İsmet Tarman İş Merkezi No:1, Kat:2
No.32 Ümraniye, İstanbul, Turkey**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

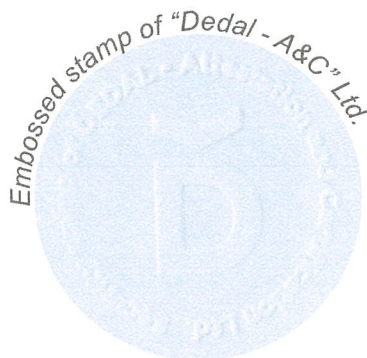
EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006; EN 54-23:2010

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 31.07.2017 and will remain valid until 28.11.2019 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.



Issued:
Burgas, 28 November 2018



Manager:


Dedal
Attestation &
Certification

arch. Galina Vasileva

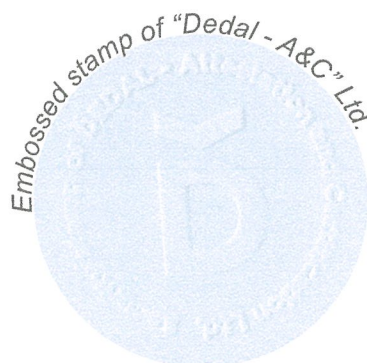
ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE
1922-CPR-0873/ 28.11.2018

Performance list, acc. to EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006

Essential characteristics	Performance	Clause
Performance parameters under fire conditions		
- Sound level	pass	4.2
- Frequencies and sound pattern	pass	4.3
- Reproducibility	pass	5.2
- Operational performance	pass	5.3
- Attention drawing signal and message broadcast sequences	N/A	C.3.1
- Synchronization	N/A	C.3.2
- Broadcast message performance	N/A	C.5.1
- Attention drawing signal/silence/message sequence timing	N/A	C.5.2
- Message synchronization testing	N/A	C.5.3
Operational reliability		
- Durability	pass	4.4
- Construction	pass	4.5
- Marking and data	pass	4.6
- Durability	pass	5.4
- General testing	N/A	C.4
Durability of operational reliability, temperature resistance		
- Dry heat (operational)	pass	5.5
- Dry heat (endurance)	N/A	5.6
- Cold (operational)	pass	5.7
- Damp heat, cyclic (operational)	pass	5.8
- Damp heat, steady state (endurance)	pass	5.9
Durability of operational reliability, humidity resistance		
- Damp heat, cyclic (operational)	pass	5.8
- Damp heat, steady state (endurance)	pass	5.9
- Damp heat, cyclic (endurance)	N/A	5.10
Durability of operational reliability, corrosion resistance		
- Sulphur dioxide (SO2) corrosion (endurance)	pass	5.11
Durability of operational reliability, shock and vibration resistance		
- Shock (operational)	pass	5.12
- Impact (operational)	pass	5.13
- Vibration, sinusoidal (operational)	pass	5.14
- Vibration, sinusoidal (endurance)	pass	5.15
Durability, electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	pass	5.16
Durability of operational reliability, resistance to ingress		
- Enclosure protection	pass	5.17



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ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

1922-CPR-0873/ 28.11.2018

Performance list, acc. to EN 54-23:2010

Essential characteristics	Performance	Clause
Operational reliability		
- Duration of operation	pass	4.2.1
- Provision for external conductors	pass	4.2.2
- Flammability of materials	pass	4.2.3
- Enclosure protection	pass	4.2.4
- Access	pass	4.2.5
- Manufacturer's adjustments	pass	4.2.6
- On-site adjustment of behavior	N/A	4.2.7
- Requirements for software controlled devices	pass	4.2.8
Performance parameters under fire conditions		
- Coverage volume	pass (W-2,4-4)	4.3.1
- Variation of light output	pass	4.3.2
- Minimum and maximum light intensity	pass	4.3.3
- Light color	pass	4.3.4
- Light pattern and frequency of flashing	pass	4.3.5
- Marking and data	pass	4.3.6
- Synchronization	N/A	4.3.7
Durability, temperature resistance		
- Dry heat (operational)	pass	4.4.1.1
- Dry heat (endurance)	N/A	4.4.1.2
- Cold (operational)	pass	4.4.1.3
Durability, humidity resistance		
- Damp heat, cyclic (operational)	pass	4.4.2.1
- Damp heat, steady state (endurance)	pass	4.4.2.2
- Damp heat, cyclic (endurance)	N/A	4.4.2.3
Durability, shock and vibration resistance		
- Shock (operational)	pass	4.4.3.1
- Impact (operational)	pass	4.4.3.2
- Vibration, sinusoidal (operational)	pass	4.4.3.3
- Vibration, sinusoidal (endurance)	pass	4.4.3.4
Durability, corrosion resistance		
- Sulphur dioxide (SO ₂) corrosion (endurance)	pass	4.4.4
Durability, electrical stability		
- Electromagnetic compatibility (EMC), immunity (operational)	pass	4.4.5



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