

CERTIFICATE OF CONSTANCY OF PERFORMANCE

Issued by DBI Certification, notified body No. 2531.

In compliance with *Regulation 305/2011/EU 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

45681-705 XP95 Sounder Visual Alarm Device Base (White) with Isolator

The product fulfils the essential characteristic:

See Annex 1

Intended use:

Applications related to automatic fire alarm systems

Placed on the market under the name or trade mark of:

Apollo Fire Detectors Ltd. 36 Brookside Road Havant, Hampshire, P09 1JR United Kingdom

and produced in the manufacturing plant:

Apollo Fire Detectors Ltd. 36 Brookside Road Havant, Hampshire, P09 1JR United Kingdom

This attests that all provisions concerning the performance described in Annex ZA of the standard(s)

EN 54-23:2010	:	Fire detection and fire alarm systems - Part 23: Fire alarm devices – Visual alarm devices
EN 54-3:2001/A1:2002/A2:2006	:	Fire detection and fire alarm systems - Part 3: Fire alarm devices - Sounders
EN 54-17:2005/AC:2007	:	Fire detection and fire alarm systems - Part 17: Short-circuit isolators

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 2019-11-28 and will remain valid 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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 attached annexes form part of this certificate.

Date of issue: 2023-10-26

(This certificate supersedes the previous version of this certificate issued 2021-10-05)

Chris Ellis Responsible for evaluation

Steen Nilsson Responsible for certification decision





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Annex 1

EXTENT

Type:

45681-705 XP95 Sounder Visual Alarm Device Base (White) with Isolator

Notes:

- 1. The VAD is rated as open class: (Refer to installation guide).
- 2. The VAD operating voltage range 17-28V DC (24V nominal).
- 3. The VAD Light mode (light pattern details): 0.5Hz mode only.
- 4. The VAD includes a short circuit isolator.
- 5. The VAD is a Type A device and includes synchronisation.
- Meets the requirements of EN 54-3: 2001 at the following tone settings: Tone 1 Apollo Evacuation Tone – 567Hz for 0.5s, 850Hz off for 0.5s Tone 0 Apollo Alert Tone – 1s off, 1s 850Hz
- Approved for sounder volumes 2-7 only.

Accessories:

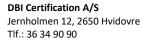
45681-292 White cap (Lockable) 45681-293 Red cap (Lockable)

Performance

Clauses in EN 54-3:2001	Performance
4.2, 4.3, 5.2, 5.3	Pass
4.4, 4.5, 4.6, 5.4, C4	Pass
5.5, 5.6, 5.7, 5.8, 5.9	Pass
5.8, 5.9, 5.10	Pass
5.11	Pass
5.12 to 5.15	Pass
5.16	Pass
5.17	Pass
	4.4, 4.5, 4.6, 5.4, C4 5.5, 5.6, 5.7, 5.8, 5.9 5.8, 5.9, 5.10 5.11 5.12 to 5.15 5.16

5.16 applies only to sounders or voice sounders with active electronic components

Essential characteristics	Clauses in EN 54-17:2005	Performance		
Performance under fire conditions	5.2 1)	Pass		
Operational reliability	4	Pass		
Durability of operational reliability; temperature resistance	5.4, 5.5	Pass		
Durability of operational reliability; vibration resistance	5.9 to 5.12	Pass		
Durability of operational reliability; humidity resistance	5.6, 5.7	Pass		
Durability of operational reliability; corrosion resistance	5.8	Pass		
Durability of operational reliability; electrical stability	5.3, 5.13	Pass		
1) This is assuming that the protected by these devices	ne effect of the fire is to cause a short circu	uit in the transmission path that is		



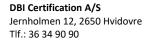
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Essential characteristics	Clauses in EN 54-23:2010	Level(s) or class(es)	Notes
Operational reliability:			
Duration of operation	4.2.1		Pass
Provision for external conductors	4.2.2		Pass
Flammability of materials	4.2.3		Pass
Enclosure protection	4.2.4		Pass
Access	4.2.5		Pass
Manufacturer's adjustments	4.2.6		Pass
On-site adjustment of behaviour	4.2.7		Pass
Requirements for software controlled devices	4.2.8		Pass
Performance parameters under fire condition:			
Coverage volume	4.3.1		Pass
Variation of light output	4.3.2		Pass
Minimum and maximum light intensity	4.3.3		Pass
Light colour	4.3.4		Red/White
Light temporal pattern and frequency of flashing	4.3.5		Pass/Hz
Marking and data	4.3.6		Pass
Synchronization (option with requirements)	4.3.7		Pass
Durability:		None	
Temperature resistance:			
Dry heat (operational)	4.4.1.1		Pass
Dry heat (endurance)	4.4.1.2		Pass
Cold (operational)	4.4.1.3		Pass
Humidity resistance:			
Damp heat, cyclic (operational)	4.4.2.1		Pass
Damp heat, steady state (endurance)	4.4.2.2		Pass
Damp heat, cyclic (endurance)	4.4.2.3		Pass
Shock and vibration resistance:			
Shock (operational)	4.4.3.1		Pass
Impact (operational)	4.4.3.2		Pass
Vibration (operational)	4.4.3.3		Pass
Vibration (endurance)	4.4.3.4		Pass
Corrosion resistance:			
SO2 corrosion (endurance)	4.4.4		Pass
Electrical stability:			
EMC, immunity (operational)	4.4.5		Pass



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Annex 2

TEST DOCUMENTATION

Accredited Laboratory	Report no.	Date
BRE	TE 281812 Revision 1	2014-01-09
BRE	TE 281812 Revision 2	2015-09-24
BRE	TE 286206	2013-12-10
BRE	TE 286206 Revision 1	2014-01-09
BRE	TE-P118556-1000 Revision 1	2021-05-06
BRE	P118556/1.1	2020-05-21
BRE	TE-P110938-1001 Issue: 1	2019-03-25

TECHNICAL BASIS

File Number	Title	
45681-705	Build Standard	





