

DECLARATION OF PERFORMANCE

In accordance with Construction Products Regulation EU No. 305/2011

No: HAES-016499-ESPRIT Issue 1

1. Unique Product identification code of the product type:
ESPRIT-G – Extinguishing Fire detection and fire alarm control panels
2. Type, batch or serial number or any other element allowing identification of the construction product as required under article 11 (4) of the CPR:
ESG-1001 (single zone, 1.2A PSU)
ESG-1002 (single zone, 3.4A PSU)
ESG-1003 (dual zone, 3.4A PSU, large cabinet)
ESG-1004 (single zone, 3.4A PSU, large cabinet)
3. Intended use of the construction product:
Electrical Automatic Control and Delay for Gas Extinguishing Systems
4. Name, registered trade name or registered trademark and contact address of the manufacturer:
Haes Systems Limited
Unit 3, Horton Industrial Park,
West Drayton, Uxbridge, Middlesex UB7 8JD
United Kingdom
5. Where applicable; name and contact address of the authorised representative whose mandate covers the tasks specified in article 12 (2):
Not applicable
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 1
7. In the case of the Declaration of performance concerning a construction product covered by a harmonized standard: **EN 54-2:1997 + A1:2006, EN 54-4:1998 +A1:2002 +A2:2006, EN 12094-1:2003**
BSI 0086
Have performed type testing and the initial inspection of the manufacturing plant and of factory production control with continuous surveillance, assessment and approval of the factory production control under system 1 and issued following certificate of constancy of performance:
0086-CPR-663522
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
Not applicable, see item 7

9. Declared performance:

Harmonized Technical Specification		BS EN 12094-1:2003
Essential characteristics	Performance	Clause
Response delay (response time)		
Response delay	Pass	4.8
Operational reliability		
Functional requirements	Pass	4
Design requirements	Pass	5
Additional design requirements for software controlled e.c.d.s	Pass	6
Performance parameters under fire conditions		
Signal processing and indication	Pass	4.3
Reception and processing of input triggering signals	Pass	4.4
Transmission of extinguishing signal	Pass	4.5
Activation of alarm devices	Pass	4.6
Durability of operational reliability		
Cold (operational)	Pass	9.3 (e)
Vibration, sinusoidal (operational)	Pass	9.3 (f)
Vibration, sinusoidal (endurance)	Pass	9.3 (g)

Harmonized Technical Specification		EN 54-2:1997 + A1:2006
Essential characteristics	Performance	Clause
Performance under fire conditions		
General requirements	Pass	4
General requirements for indications	Pass	5
The fire alarm condition	Pass	7
Response delay (response time to fire)		
Reception and processing of fire signals	Pass	7.1
Output of the fire alarm condition	Pass	7.7
Delay to outputs	Pass	7.11
Operational reliability		
General requirements	Pass	4
General requirements for indications	Pass	5
The quiescent condition	Pass	6
The fire alarm condition	Pass	7

Fault warning condition	Pass	8
Disabled condition	Pass	9
Test condition	Pass	10
Design requirements	Pass	12
Additional design requirements for software controlled control and indicating equipment	Pass	13
Marking	Pass	14
Durability of operational reliability		
Cold (operational)	Pass	15.4
Damp heat, steady state (operational)	Pass	15.5
Impact (operational)	Pass	15.6
Vibration, sinusoidal (operational)	Pass	15.7
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	15.8
Supply voltage variations	Pass	15.13
Damp heat, steady state (endurance)	Pass	15.14
Vibration, sinusoidal (endurance)	Pass	15.15

Harmonized Technical Specification		EN 54-4:1997 +A1 & A2
Essential characteristics	Performance	Clause
Performance of power supply		
General requirements	Pass	4
Functions	Pass	5
Materials, design and manufacture	Pass	6
Operational reliability		
General requirements	Pass	4
Functions	Pass	5
Materials. Design and manufacture	Pass	6
Documentation	Pass	7
Marking	Pass	8
Durability of operational reliability		
Cold (operational)	Pass	9.5
Damp heat, steady state (operational)	Pass	9.6
Impact (operational)	Pass	9.7
Vibration, sinusoidal (operational)	Pass	9.8
Electromagnetic Compatibility (EMC), Immunity tests (operational)	Pass	9.9

