



# CPR - DECLARATION of PERFORMANCE

N° 2831-CPR-F4385  
(Conformity EU 305/2011)

1. Unique identification code of the product-type:

<b>Model No.:</b>	<b>Brand:</b>	<b>Supplier:</b>
<b>ARF-WL8-OV</b>		
<b>KM-WL8-OV</b>	<b>K-Mesh</b>	<b>ASI Oy Ltd.</b>
<b>EK-WL8-OV</b>	<b>EKHO</b>	

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:

<b>ARF-WL8-OV</b>	<b>Wireless Type A Optical Smoke Detector With Built-In Voice Annunciator And Visual Alarm Device</b>
<b>KM-WL8-OV</b>	<b>Wireless Type A Optical Smoke Detector With Built-In Voice Annunciator And Visual Alarm Device</b>
<b>EK-WL8-OV</b>	<b>Wireless Type A Optical Smoke Detector With Built-In Voice Annunciator And Visual Alarm Device</b>

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

**For use in compatible fire detection and alarm system**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer:

**ASI Oy Ltd.**  
**Laitaatsillantie 3**  
**Savonlinna**  
**57170**  
**Finland**  
**asioy.fi**

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in article 12(2):

**N/A**



6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

**System 1**

7. In case of the declaration of performance concerning a construction product covered by harmonized standard:

**EN54-7:2018**  
**EN54-3:2001+A1:2002+A2:2006**  
**EN54-25:2008**  
**EN54-23:2010**

**BRE Global Assurance (Ireland) Limited, N.B. No. 2831, performed the necessary initial inspection of the manufacturing plant and the factory production control together with ongoing continuous surveillance and issued the following certificates confirming constancy of the conformity of the factory production control**

<b>Product code:</b>	<b>LPCB Certificate no.:</b>	<b>LPCB ref. no.:</b>	<b>CPR Reference:</b>
<b>ARF-WL8-OV KM-WL8-OV EK-WL8-OV</b>	<b>1571e</b>	<b>1571e/01</b>	<b>2831-CPR-F4385</b>

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

**N/A**

9. Declared performance:

<b>ESSENTIAL CHARACTERISTICS</b>	<b>CLAUSE APPLICABLE</b>	<b>PERFORMANCE</b>	<b>HARMONISED STANDARD</b>
Nominal activation conditions / Sensitivity, Response delay (response time) and performance under fire conditions	4.8, 5.2, 5.3, 5.4, 5.6, 5.7, 5.18	PASS	EN54-7:2018
Operational reliability	4.2 to 4.7, 4.9 to 4.11	PASS	
Tolerance to supply voltage	5.5	PASS	
Durability of operational reliability, temperature resistance	5.8, 5.9	PASS	



Durability of operational reliability, vibration resistance	5.13 to 5.16	PASS	
Durability of operational reliability, humidity resistance	5.10, 5.11	PASS	
Durability of operational reliability, corrosion resistance	5.12	PASS	
Durability of operational reliability, electrical stability	5.17	PASS	

<b>ESSENTIAL CHARACTERISTICS</b>	<b>CLAUSE APPLICABLE</b>	<b>PERFORMANCE</b>	<b>HARMONISED STANDARD</b>
Performance under fire conditions	4.2, 4.3, 5.2, 5.3, C.3.1, C.3.2, C.5.1, C.5.2, C.5.3	PASS	EN54-3:2001+ A1:2002+A2:2006
Operational reliability	4.4, 4.5, 4.6, 5.4, C4	PASS	
Durability of operational reliability, temperature resistance	5.5, 5.6, 5.7, 5.8, 5.9	PASS	
Durability of operational reliability, humidity resistance	5.8, 5.9, 5.10	PASS	
Durability of operational reliability, corrosion resistance	5.11	PASS	
Durability of operational reliability, shock and vibration resistance	5.12 to 5.15	PASS	
Durability of operational reliability, electrical stability	5.16	PASS	
Durability of operational reliability, resistance to ingress	5.17	PASS	



ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	HARMONISED STANDARD
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	White	
Light temporal pattern and frequency of flashing	4.3.5	PASS/0.5 Hz	
Marking and data	4.3.6	PASS	
Synchronization (option with requirements)	4.3.7	PASS	
Durability:			
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:			
SO <sub>2</sub> corrosion (endurance)	4.4.4	PASS	
Electrical stability:			
EMC, immunity (operational)	4.4.5	PASS	
			EN54-23:2010



ESSENTIAL CHARACTERISTICS	CLAUSE APPLICABLE	PERFORMANCE	HARMONISED STANDARD
Performance parameters under fire conditions	4.1, 4.2.2, 5.2, 8.3.7	PASS	EN 54-25:2008
Response delay (response time to fire)	8.2.3, 8.2.6	PASS	
Operational reliability	4.2.1, 4.2.3 to 4.2.7, 5.3, 5.4, 6, 7, 8.2.2, 8.2.4, 8.2.5, 8.2.7, 8.2.8, 8.2.9, 8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6	PASS	
Durability of operational reliability, temperature resistance	8.3.9, 8.3.10, 8.3.11	PASS	
Durability of operational reliability, vibration resistance	8.3.16, 8.3.17 to 8.3.19	PASS	
Durability of operational reliability, humidity resistance	8.3.13, 8.3.14	PASS	
Durability of operational reliability, corrosion resistance	8.3.15	PASS	
Durability of operational reliability, electrical stability	8.3.20	PASS	

10. This declaration is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

**Tony Betka – Chief Executive Officer  
ASI Oy Ltd., Savonlinna, FINLAND**

**10 November 2022**