



## DECLARATION OF PERFORMANCE

In accordance with Construction Product Reg. EU N° 305/2011

N. 0051-CPR-1998-AP50T rev.1

1.	Unique product identification code:	AP50T (EAN code 8032496173083)																																																																																							
2.	Type batch, serial number:	AP50T																																																																																							
3.	Intended use of the construction product:	EN54-24 Fire detection and fire alarm system – part 24: Component of voice alarm system: Loudspeaker SOUND PROJECTOR (Environmental type B)																																																																																							
4.	Name, registered trademark of the manufacturer and contact address:	Proel S.p.A. Via Alla Ruenia, 37/43 – 64027 Sant’Omero (TE) - Italy																																																																																							
5.	Authorized Representative:	Not Applicable																																																																																							
6.	System of assessment:	1																																																																																							
7.	Declaration of performance:	The Notified Body n. 0051 IMQ S.p.A., by product type testing, inspection of manufacturing plant, inspection of factory production control as system 1 requirements, has issued in date 2020 April 06 the Certificate of Constancy of Performance N. 0051-CPR-1998																																																																																							
8.	European Technical Assessment:	Not Applicable																																																																																							
9.	Declared performance: <b>EN54-24:2008 Harmonised technical specification</b>	<table border="1"> <thead> <tr> <th>Essential Characteristics</th> <th>Performance</th> <th>Clause</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Performance parameters under fire conditions</b></td> </tr> <tr> <td>Frequency response limits</td> <td>pass</td> <td>4.2</td> </tr> <tr> <td>Reproducibility</td> <td>pass</td> <td>5.2</td> </tr> <tr> <td>Rated impedance</td> <td>pass</td> <td>5.3</td> </tr> <tr> <td>Horizontal and vertical coverage angles</td> <td>pass</td> <td>5.4</td> </tr> <tr> <td>Maximum sound pressure level</td> <td>pass</td> <td>5.5</td> </tr> <tr> <td colspan="3"><b>Operational reliability</b></td> </tr> <tr> <td>Durability</td> <td>pass</td> <td>4.3</td> </tr> <tr> <td>Construction</td> <td>pass</td> <td>4.4</td> </tr> <tr> <td>Marking and data</td> <td>pass</td> <td>4.5</td> </tr> <tr> <td>Rated noise power (durability)</td> <td>pass</td> <td>5.6</td> </tr> <tr> <td>Enclosure of the loudspeaker</td> <td>pass</td> <td>5.18</td> </tr> <tr> <td colspan="3"><b>Durability of operational reliability, temperature resistance</b></td> </tr> <tr> <td>Dry heat (operational)</td> <td>pass</td> <td>5.7</td> </tr> <tr> <td>Dry heat (endurance)*</td> <td>pass</td> <td>5.8</td> </tr> <tr> <td>Cold (operational)</td> <td>pass</td> <td>5.9</td> </tr> <tr> <td colspan="3"><b>Durability of operational reliability, humidity resistance</b></td> </tr> <tr> <td>Damp heat, cyclic (operational)</td> <td>pass</td> <td>5.10</td> </tr> <tr> <td>Damp heat, steady state (endurance)</td> <td>pass</td> <td>5.11</td> </tr> <tr> <td>Damp heat, cyclic (endurance)*</td> <td>pass</td> <td>5.12</td> </tr> <tr> <td colspan="3"><b>Durability of operational reliability, corrosion resistance</b></td> </tr> <tr> <td>Sulphur dioxide (SO<sub>2</sub>) corrosion (endurance)</td> <td>pass</td> <td>5.13</td> </tr> <tr> <td colspan="3"><b>Durability of operational reliability, impact and vibration resistance</b></td> </tr> <tr> <td>Shock (operational)</td> <td>pass</td> <td>5.14</td> </tr> <tr> <td>Impact (operational)</td> <td>pass</td> <td>5.15</td> </tr> <tr> <td>Vibration, sinusoidal (operational)</td> <td>pass</td> <td>5.16</td> </tr> <tr> <td>Vibration, sinusoidal (endurance)</td> <td>pass</td> <td>5.17</td> </tr> <tr> <td colspan="3">* Not applicable for components declared as Type A</td> </tr> </tbody> </table>	Essential Characteristics	Performance	Clause	<b>Performance parameters under fire conditions</b>			Frequency response limits	pass	4.2	Reproducibility	pass	5.2	Rated impedance	pass	5.3	Horizontal and vertical coverage angles	pass	5.4	Maximum sound pressure level	pass	5.5	<b>Operational reliability</b>			Durability	pass	4.3	Construction	pass	4.4	Marking and data	pass	4.5	Rated noise power (durability)	pass	5.6	Enclosure of the loudspeaker	pass	5.18	<b>Durability of operational reliability, temperature resistance</b>			Dry heat (operational)	pass	5.7	Dry heat (endurance)*	pass	5.8	Cold (operational)	pass	5.9	<b>Durability of operational reliability, humidity resistance</b>			Damp heat, cyclic (operational)	pass	5.10	Damp heat, steady state (endurance)	pass	5.11	Damp heat, cyclic (endurance)*	pass	5.12	<b>Durability of operational reliability, corrosion resistance</b>			Sulphur dioxide (SO <sub>2</sub> ) corrosion (endurance)	pass	5.13	<b>Durability of operational reliability, impact and vibration resistance</b>			Shock (operational)	pass	5.14	Impact (operational)	pass	5.15	Vibration, sinusoidal (operational)	pass	5.16	Vibration, sinusoidal (endurance)	pass	5.17	* Not applicable for components declared as Type A		
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10	The performance of the product identified in sections 1 and 2 is in conformity with the declared performance in section 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.	Sant’Omero May 26 2020 Signed for and on behalf of the manufacturer																																																																																							

Fabrizio Sorbi  
Chairman