MOFLASH SIGNALLING

Form No: MOF176- Issue A
12/06/2024

Declaration of Performance - 2831-CPR-F2313

Approved Part Codes:	IS-S-02, IS-SB-02-XX, IS-S-02WH, IS-SB-02-xxWH
Equipment Type:	Conventional sounders (Red/White)
Intended Use:	Fire Alarm systems (Buildings)
Manufacturer:	**Moflash Signalling Limited:** 11 Upper Conybere Street, Highgate, Birmingham, UK, B12 0EB
Assessment System:	System 1
Notified Body & Number:	BRE Global Ireland 2831
Type Testing:	EN54-3:2014 + A1:2019
EC Certificate of Constance of Performance:	2831-CPR-F2313

Declaration of Performance:

Essential Characteristics	EN54-3 Clause	Type A	Type B
Reproducibility	5.2	Pass	Pass
Operational performance	5.3	Pass	Pass
Durability	5.4	Pass	Pass
Dry Heat (operational)	5.5	Pass	Pass
Dry Heat (endurance)	5.6	Pass	Pass
Cold (operational)	5.7	Pass	Pass
Damp heat, cyclic (operational)	5.8	Pass	Pass
Damp heat, steady state (endurance)	5.9	Pass	Pass
Damp Heat, cyclic (endurance)	5.10	Pass	Pass
SO2 corrosion (endurance)	5.11	Pass	Pass
Shock (operational)	5.12	Pass	Pass
Impact (operational)	5.13	Pass	Pass
Vibration (operational)	5.14	Pass	Pass
Vibration (endurance)	5.15	Pass	Pass
Electrostatic discharge (operational)	5.16	Pass	Pass
Radiated electromagnetic fields (operational)	5.16	Pass	Pass
Voltage transients, fast transient bursts (operational)	5.16	Pass	Pass
Enclosure Protection	5.17	Pass	Pass



Dan Burrell
Head of Engineering

Note: This Declaration is subject to terms and conditions. Any changes in design or construction will render this Declaration invalid.

EN54-3 Sound Pressure Level Test Results for IS-S-02-XX and IS-SB-02-XX

Tones tested by BRE during EN54-3 accreditation process, results from document number: P109954-1001.

IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:				
Tone Description:	Tone 1			
Tone Freq & Period:	970Hz Continuous			
Angle	Maximum (28v)(dB(A))		Minimum (16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	83.5	82.8	81.8	81.4
45°	85.3	85.6	83.8	84.3
75°	87.7	87.6	86.2	84.7
105°	87.3	87.3	85.8	84.8
135°	83.6	83.2	82	81.1
165°	73.1	83.5	81	81.9

IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:				
Tone Description:	Tone 2			
Tone Freq & Period:	800Hz/970Hz @ 2Hz			
Angle	Maximum(28v)(dB(A))		Minimum(16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	86.3	84.9	84.3	83.6
45°	86.1	86.4	84.3	85.1
75°	91.2	91.3	89.2	89.9
105°	91	90.9	89	89.8
135°	86.4	86.5	84.5	84.3
165°	83.3	86	84.4	84.2

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IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:				
Tone Description:	Tone 3			
Tone Freq & Period:	800Hz-970Hz @ 1Hz			
Angle	Maximum (28v)(dB(A))		Minimum (16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	84.6	84	82.6	82.1
45°	86.1	86.5	84.3	84.7
75°	90.9	91	89.1	88
105°	90.6	90.8	88.7	87.5
135°	85.2	85.3	83.1	83.8
165°	84.8	84.7	82.3	83

IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:	AFNOR NF S 32 001			
Tone Description:	Tone 6			
Tone Freq & Period:	554Hz, 0.1s/440Hz, 0.4s			
Angle	Maximum (28v)(dB(A))		Minimum (16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	83.1	83.1	81	80.7
45°	88.2	88.2	86.2	85.8
75°	89.5	89.4	87.7	87.6
105°	88.9	89	86.8	86.9
135°	87.3	87.4	85.2	85.1
165°	84.3	84.6	82.2	83

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IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:	NEN 2575:2000 Dutch Slow Whoop			
Tone Description:	Tone 7			
Tone Freq & Period:	500-1200Hz, 3.5s/0.5s OFF			
Angle	Maximum (28v)(dB(A))		Minimum (16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	84.9	84.5	83.6	83
45°	90	89.9	87.4	87.6
75°	90.9	90.8	89.2	89
105°	90.6	90.6	89.5	89.1
135°	88.9	88.9	86.5	86.7
165°	85.6	85.5	83.8	84.1

IS-S-02-XX & IS-SB-02-XX Sound Pressure Levels				
Tone Name:	DIN 33 404			
Tone Description:	Tone 13			
Tone Freq & Period:	1200Hz - 500Hz @ 1Hz			
Angle	Maximum (28v)(dB(A))		Minimum (16v)(dB(A))	
	Horizontal	Vertical	Horizontal	Vertical
15°	83.8	83.4	80.4	80.3
45°	88.3	88.2	86.2	86.2
75°	89.4	89.3	87.4	87.3
105°	89.4	89.4	87.3	87.3
135°	87.7	87.8	85.8	85.8
165°	84.7	84.5	81.5	81.5

Refer to installation manual for all other information regarding tone setting and selection.
This is a controlled document and cannot be updated without prior approval from notified body.

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