

# Banshee Excel™ Sounder Range







Fire Alarms

Banshee

**Electronic Sounders** 

BS 5839-1

FlashDome

Evacuation

Audible Alarm

EN 54-3

Beacons

### Banshee Excel™

The Banshee Excel<sup>™</sup> range of sounders, beacons, sounder beacons and accessories represents the most modern, acoustically advanced and by far the most versatile range of conventional electronic sounders, combined units and dedicated beacons available on the market today.

All sounders and sounder beacons (apart from the Banshee Excel™ BD Bedroom Sounder) come with 32 user-selectable tones incorporating low frequencies, high frequencies, European, American and Australian norms and all industry-standard frequency patterns. Tested and approved to EN 54 Part 3, the Banshee Excel™ range boasts leading acoustics, aesthetically pleasing designs and low power consumption.



The Banshee Excel™ BS Base Sounder is the thinnest platform sounder on the market and is renowned for its 360° sound dispersal. The Banshee Excel Lite™ sounder beacon units offer all the functionality of the Banshee Excel™ sounders, together with either Xenon or LED beacon technology and several different coloured lenses to enhance the evacuation signal. The Banshee Excel™ FlashDome stand-alone beacon features ultra-efficient LEDs and is ideal for use in fire alarm systems which need to be upgraded or designed for conformity to DDA requirements. Together, the Banshee Excel™ products are unmatched for diversity and ease of installation.

The Banshee Excel™ range is complemented by a wide selection of accessories to suit all applications.

#### Banshee Excel™ CH & PH Sounders

Banshee Excel™ is manufactured in flame retardant ABS and is available in three colours, making it suitable for a wide range of alarm and signalling applications.

The unit is available with two different sound modules; model CH is fitted with a professional capsule driven horn, whereas the PH version has an innovative and highly efficient piezo horn for lower-cost applications. All models use the push and twist bayonet fitting Banshee<sup>MT</sup> base.



- Available with two different horn options
- 32 user-selectable tones industry standard compatible
- Very low current consumption
- EN 54-3 tested and compliant with the CPD
- VdS approved and LPCB approval pending
- Uses same bases as Banshee<sup>MT</sup> simple push and twist bayonet mounting with locking screw
- Available in three colours red, white or grey
- Easy to install with side and rear cable entry
- Robust 'two in two out' 2.5 mm² terminals
- Three selectable volume levels
- Rated to IP66 or IP45
- Extensive family of accessories for a wide range of applications
- Recyclable



#### Banshee Excel™ BS Base Sounder

The slimmest sounder in its class, the Banshee Excel™ BS supplies true omni-directional sound output and is fully compatible with the other sounders in the range.



- 32 tones designed to be compatible with other Banshee Excel™ sounders
- EN 54-3 tested and compliant with the CPD
- Slimmest profile in the industry
- Low current consumption
- Available in white or ivory to match to detectors
- Omni-directional sound (see Polar Plot page 5)
- Front plate for stand-alone use available
- Three selectable volume levels
- Installer friendly terminals
- Ceiling or wall mounting
- Robust and easily connected 'two in two out' 2.5 mm<sup>2</sup> terminals
- Supplied with fixing screws





#### Banshee Excel Lite™ CHX, CHL & PHL Sounder Beacons

The Banshee Excel Lite™ combines the aesthetics and performance of the Excel Sounder with either a very bright and efficient Xenon Beacon (CHX model) or a low-current LED Beacon (CHL & PHL models). The LED Beacon version is available with either the professional capsule driven horn (CHL) or the piezo horn (PHL) sounder.

Manufactured in flame retardant polymer, the units are available in a choice of base colours and up to 5 different lens colours, making it suitable for a range of fire and security dual notification applications as well as DDA-compliant installations. All models use the push and twist bayonet fitting BansheeMT base.

- Available with either Xenon or LED Beacon with a red or white body
- LED Beacon version available with two different sounder horn options
- Choice of lens colours (CHX: 5 colours, CHL: 3 colours, PHL: 2 colours)
- Sounder has 32 user-selectable tones industry standard compatible
- Very low current consumption
- EN 54-3 tested and compliant with the CPD
- VdS approved and LPCB approval pending
- Easy to install with side and rear cable entry
- Robust 'two in two out' 2.5 mm² terminals
- Choice of three volume levels
- Rated to IP66 or IP45
- Uses same bases as Banshee<sup>MT</sup> simple push and twist bayonet mounting with locking screw
- Extensive family of accessories for a wide range of applications
- Recyclable

#### Banshee Excel™ FlashDome LED Beacon

The Banshee Excel™ FlashDome features ultra-efficient LEDs and is ideal for use in fire alarm systems which need to be upgraded or designed for conformity to DDA requirements.

The FlashDome is 100% compatible with the rest of the Excel Sounder and Sounder Beacon range and utilises the same shallow and deep bases and broad range of accessories.



- Ultra-efficient LEDs
- Very low current consumption
- Sleek, low-profile design
- Compatible with other Excel Sounders and Sounder Beacons and accessories
- Uses same bases as Banshee<sup>MT</sup> simple push and twist bayonet mounting with locking screw



Choice of lens colour:













#### Banshee Excel™ BD Bedroom Sounder

A low cost alternative for fire applications in hotels and residential environments.

- Low current 7mA
- Available in white or red
- Fits standard 25 mm back box



# Specification

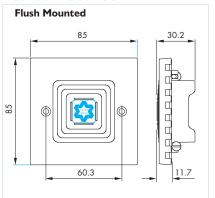
Model	Banshee Excel™ CH & PH	Banshee Excel Lite™ CHX. CHL & PHL	Banshee Excel™ BS	Banshee Excel™ FlashDome	Banshee Excel™ BD
Description:	Sounder	Sounder Beacon	Base Sounder	Beacon	Bedroom Sounder
Operating Voltage (Vdc):	9-30	9-30	9-30	10-28	24
Operating Voltage EN54-3 (Vdc):	24 (20 -28)	24 (20 -28)	24 (20 -28)	-	-
Tone Current Consumption (mA):	See Sound Output Table*	See Sound Output Table*	See Sound Output Table*	-	7 (Typical)
Flash Current Consumption (mA):# - @24 Vdc - @12 Vdc	-	40 (CHX), 16 (CHL & PHL) 90 (CHX), 12 (CHL & PHL)	-	5 5	-
Sound Output (dBA Typ @1m):	See Sound Output Table*	See Sound Output Table*	See Sound Output Table*	-	90
Tones Available:	See Sound Output Table*	See Sound Output Table*	See Sound Output Table*	-	Fast Sweep: 750-850 Hz swept at 9 Hz Continuous: 815 Hz
Body Colours:	Red, White or Grey	Red or White	White or Ivory	Red	Red or White
Body Material:	Flame Retardant ABS	Flame Retardant ABS	Flame Retardant ABS	Flame Retardant ABS	Flame Retardant ABS
Lens Colour (Polycarbonate):	-	CHX: Red, Clear, Amber, Blue, Green CHL: Red, Clear, Amber PHL: Red, Amber	-	Red	-
Temperature Range (Deg C):	-40 to +70	-20 to +55 (CHX & CHL) -20 to +70 (PHL)	-40 to +70	-20 to +70	ТВС
Environment Category / IP Rating:	Type A/IP45 Std Base Type B/IP66 Deep Base	Type A/IP45 Std Base Type B/IP66 Deep Base	Internal use only	Type A/IP45 Std Base Type B/IP66 Deep Base	Internal use only
Volume Control:	High, Medium (-10 dBA), Low (-20 dBA)	High, Medium (-10 dBA), Low (-20 dBA)	High, Medium (-6 dBA), Low (-12 dBA)	-	-
Light Output Rating (Cd):	-	TBC	-	I	-
Flash Rate (Per Second):	-	1	I	I	-
Termination:		Screw terminals	for 0.28 mm <sup>2</sup> to 2.5 mm <sup>2</sup> win	re conductor	

## Installation

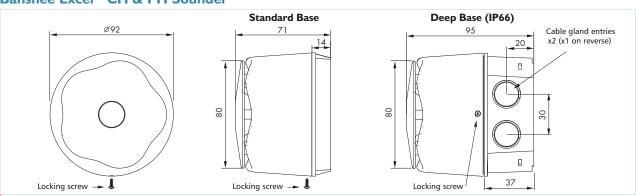
### **Banshee Excel<sup>™</sup> Common Base**

### Standard Deep Base (IP66) Hole x2 Hole x2 Slot x4 Slot x4 4.5 View from View from inside base inside base Used with Banshee Excel<sup>™</sup> CH & PH, Banshee Excel Lite<sup>™</sup> CHX, CHL & PHL and Banshee Excel<sup>™</sup> FlashDome

### **Banshee Excel™ BD Bedroom Sounder**



#### Banshee Excel™ CH & PH Sounder

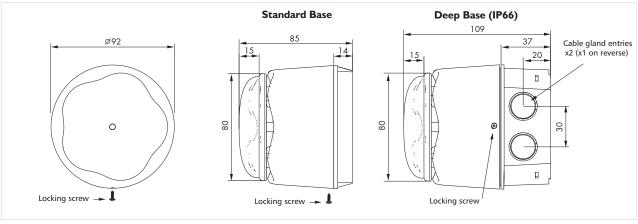


Dimensions (mm)

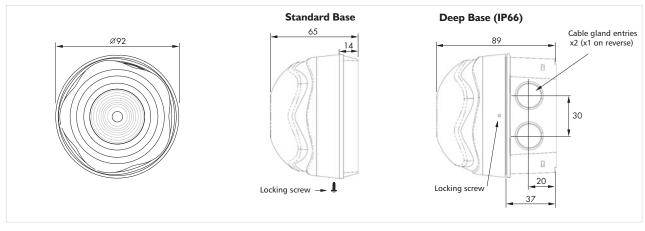
<sup>\*</sup> See Sound Output Table on back page of this document
\*Flash current consumption is additional to sounder current, where applicable (CHX, CHL, PHL)
All units that use the common base meet minimum requirements of IP21C Shallow Base and IP33C Deep Base in accordance with EN54-3

# Installation

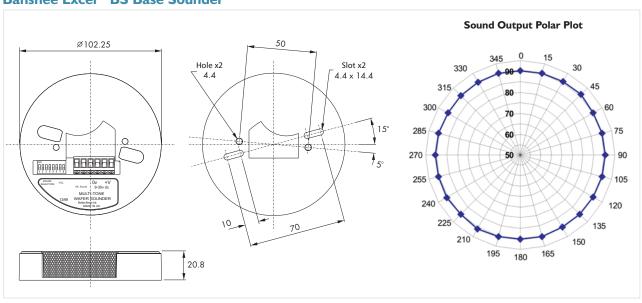
### Banshee Excel Lite™ CHX, CHL & PHL Sounder Beacon



#### **Banshee Excel™ FlashDome Beacon**



### **Banshee Excel<sup>™</sup> BS Base Sounder**



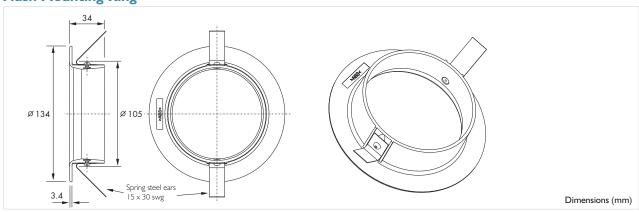
Dimensions (mm)

# Accessories

Accessory	Description	Part No.	Use with Banshee Excel™:  Ch' exh' esh esh just just just the the the short of the line the the the short of the line										
	Flush Mounting Ring	8502900	♂	84×			Like	Tite	Chr.	Philippon -			
	Combination Bracket	8503000	•	•			•	•	•	•			
	Mains Pack 110/230 Vac to 24 Vdc	8502700	•				•		•	•			
	Wall Fixing Clip	8503100	•				•	•	•	•			
	Base Sounder Cable Spacing Ring	8502800			•								
	Steel Web Stopper: Low Profile Cage (Supplied with full fixing kit)	S-9617	•	•			•	•	•	•			
	Steel Web Stopper: Base Sounder - Surface Wiring Cage (Supplied with full fixing kit)	S-9605	•	•	•	•	•	•	•	•			
	Steel Web Stopper: Base Sounder - Flush Wiring Cage (Supplied with full fixing kit)	S-9604	-	•	•	•	•	•	•	•			

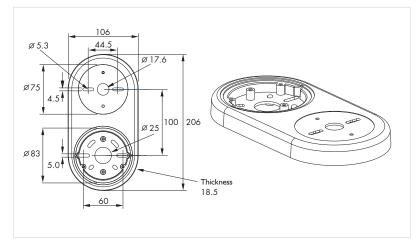
# Accessories Installation

### Flush Mounting Ring

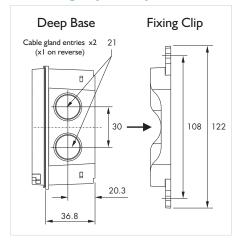


# Accessories Installation

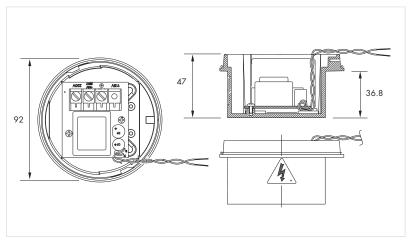
#### **Combination Bracket**



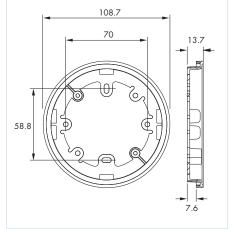
### Wall Fixing Clip & Deep Base



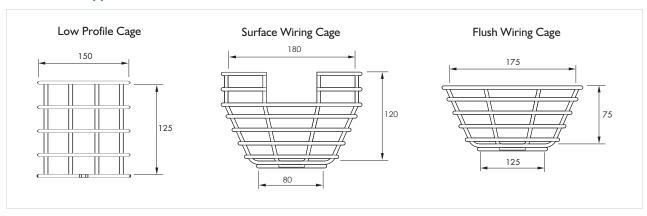
#### **Mains Pack**



### **Base Sounder Cable Spacing Ring**



### **Steel Web Stoppers**



Dimensions (mm)

# Sound Output Table & Tone Specification

Te	no Inf	ormation	nation		Banshee Excel™ CH			СН	Ва	anshee E	Excel" F	Н	Banshee Excel Lite™ CHX			
	nie iiii	00 00 00 00 00 00 00 00 00 00 00 00 00			(1)	2V)	(24V)		(12	2V)	(24	IV)	(1:	2V)	(24	V)
No.	DIL SW 1 2 3 4 5	Description	Frequency and timing	2nd Tone	dBA	mA	dBA	mA	dBA	mA	dBA	mA	dBA	mA	dBA	mA
1		Banshee Buzz LF	800Hz to 950Hz swept at 120Hz	4	94	6	101	12	91	5	99	12	94	6	100	12
2		Banshee Fast Sweep LF*	800Hz to 950Hz swept at 9Hz	4	94	6	101	12	91	5	100	12	94	6	100	12
3		Banshee Slow Sweep LF	800Hz to 950Hz swept at 3Hz	4	94	6	101	12	92	5	100	12	94	6	100	12
4		Banshee Continuous LF	Continuous at 900Hz	4	94	6	101	12	92	6	100	14	94	6	100	12
5		Banshee Fast Sweep LF (New)	830Hz to 970Hz swept at 9Hz	4	95	6	101	12	92	5	100	12	93	6	100	12
6		Medium Sweep LF*	800Hz to 970Hz swept at 1Hz	7	96	6	101	12	93	5	101	13	94	6	100	12
7 8	01100	Continuous LF Back Up Alarm LF	Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off	7	96 96	6 8	102	13	90	5	95 95	10	94 93	6	99	13
9		Alternate LF	Alternating 800Hz/1000Hz at 1Hz	4	96	6	102	13	87	4	96	9	94	6	100	13
10		Medium Sweep LF	800Hz to 1000Hz swept at 0.5 secs	4	95	6	101	12	92	5	100	12	94	6	100	12
11		Alternate LF	Alternating Tones 800/950 at 3Hz	4	96	6	101	12	89	4	96	10	94	6	101	12
12		Banshee Buzz HF	2400Hz to 2900Hz at 120Hz	15	102	16	110	35	102	14	109	32	102	16	109	35
13		Banshee Fast Sweep HF	2400Hz to 2900Hz at 9Hz	15	103	17	110	35	102	13	109	30	103	17	110	35
14		Banshee Slow Sweep HF	2400Hz to 2900Hz at 3Hz	15	103	17	110	35	103	14	110	33	103	17	110	35
15		Banshee Continuous HF	Continuous 2900Hz*	15	103	19	110	39	98	8	104	17	103	19	109	39
16	11110	Banshee Fast Sweep HF (New)	2450Hz to 3100Hz swept at 9Hz	15	103	18	110	36	102	12	109	27	103	18	109	36
17	00001	Back Up Alarm HF	Intermittent at 2900Hz I sec on, I sec off*	15	104	18	110	36	99	8	105	17	103	18	109	37
18	10001	Alternate HF	Alternating Tones 2400/2900 at 3Hz	15	104	16	110	36	99	10	105	23	104	17	110	36
19	01001	Slow Whoop*	500hz rising to 1200hz over 3.5 secs, silence 0.5 sec	4	95	6	101	12	92	5	100	- 11	95	6	101	12
20	11001	Din Tone (DK)*	1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat	4	93	5	100	10	90	4	98	9	93	5	100	10
21	00101	French Fire Sound*	554Hz for 100mS and 440Hz for 400mS	4	90	4	96	7	86	3	93	6	90	4	96	7
22	10101	Australian Alert Signal	420Hz repeating 0.625 sec on, 0.625 sec off	4	89	3	95	6	81	3	88	5	89	3	94	6
23	01101	Australian Evacuation Signal	500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off	4	95	6	103	12	92	5	100	11	95	6	101	12
24		US Temporal Tone LF	950Hz for 0.5 sec on. 0.5 sec off for 3 phases, silence for 1.5secs and repeat	4	95	5	101	10	90	4	95	8	93	5	99	10
25		US Temporal Tone HF	2900Hz for 0.5 sec on. 0.5 sec off for 3 phases, silence for 1.5secs and repeat	15	104	13	110	26	99	6	105	13	103	13	109	27
26		Swedish Tone (Fire)	Intermittent 660Hz 150mS on, 150mS off	26	90	3	96	6	76	3	83	5	90	3	96	6
27		Swedish Tone (All Clear)	Continuous 660Hz	27	91	5	97	9	77	4	83	8	91	5	97	9
28		ISO8201 LF	Intermittent 970Hz 500mS on, 500mS off	28	93	5	99	10	86	4	92	7	90	5	96	10
29		ISO8201 HF	Intermittent 2900Hz 500mS on, 500mS off*	29	103	13	110	27	99	6	105	13	103	13	109	27
30		BT Banshee (FP1063.1)	Yodel 800Hz/1000Hz, 0.25sec each frequency	31	93	6	100	12	87	4	96	10	94	6	100	12
31		BT Banshee (FP1063.1)	Continuous 1000Hz	31	90	12	96 101	14 25	84	4	89 94	9	88 94	12	94 99	14 25
32	11111	Bell Tone	Bell Tone	32	96	12	101	25	88	5	94	10	94	12	99	25
					Bans	hee Exc	el Lite™	CHL	Bans	hee Exc	el Lite™	PHL	В	anshee I	Excel <sup>™</sup> E	BS
1	00000	Banshee Buzz LF	800Hz to 950Hz swept at 120Hz	4	94	6	100	12	90	4	98	11	85	6	91	13
2		Banshee Fast Sweep LF*	800Hz to 950Hz swept at 9Hz	4	94	6	100	12	90	4	99	- 11	84	6	90	13
3										4			04			
4	01000	Banshee Slow Sweep LF	800Hz to 950Hz swept at 3Hz	4	94	6	100	12	91	7	99	- 11	84	6	90	13
-		Banshee Slow Sweep LF Banshee Continuous LF	800Hz to 950Hz swept at 3Hz Continuous at 900Hz	4		6	100	12	91	5	99	11			90 90	13
5	11000				94								84	6		
6	11000	Banshee Continuous LF	Continuous at 900Hz	4	94 94	6	100	12	91	5	99 99 99	14	84 84	6	90	13
7	11000 00100 10100 01100	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz	4 4 7 7	94 94 93 94 94	6 6 6	100 100 100 99	12 12 12	91 91 92 89	5 5 5	99 99 99 95	14 11 11	84 84 84 84 84	6 6 6 7	90 90 90 90	13 13 13
6 7 8	11000 00100 10100 01100	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off	4 4 7 7 4	94 94 93 94 94 93	6 6 6 6	100 100 100 99 99	12 12 12 13	91 91 92 89 89	5 5 5 5	99 99 99 95 95	14 11 11 11	84 84 84 84 84 84	6 6 6 7 4	90 90 90 90 90	13 13 13 14 8
6 7 8 9	11000 00100 10100 01100 11100	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz	4 4 7 7 4 4	94 94 93 94 94 93 94	6 6 6 6 6	100 100 100 99 99 100	12 12 12 13 14 13	91 91 92 89 89	5 5 5 5 5	99 99 99 95 95 95	14 11 11 11 11	84 84 84 84 84 84 84	6 6 6 7 4 7	90 90 90 90 90 90	13 13 13 14 8
6 7 8 9	11000 00100 10100 01100 11100 00010	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz 1 sec on, 1 sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs	4 4 7 7 4 4 4	94 94 93 94 94 93 94 94	6 6 6 6 6 6	100 100 100 99 99 100 100	12 12 12 13 14 13	91 91 92 89 89 87 91	5 5 5 5 4 4	99 99 99 95 95 95 95	14 11 11 11 11 10	84 84 84 84 84 84 84 84	6 6 6 7 4 7 6	90 90 90 90 90 90 90	13 13 13 14 8 14
6 7 8 9 10	11000 00100 10100 01100 11100 00010 10010	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz 1 sec on, 1 sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz	4 4 7 7 4 4 4 4	94 94 93 94 94 93 94 94 94	6 6 6 6 6	100 100 100 99 99 100 100	12 12 12 13 14 13 12	91 91 92 89 89 87 91 89	5 5 5 5 5 4 4 5	99 99 99 95 95 95 95 99	14 11 11 11 10 11	84 84 84 84 84 84 84 84 84	6 6 6 7 4 7 6	90 90 90 90 90 90 90 90	13 13 13 14 8 14 13
6 7 8 9 10 11	11000 00100 10100 01100 11100 00010 10010 01010	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Basck Up Alarm LF Alternate LF Medium Sweep LF* Alternate LF Banshee Buzz HF	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz / 1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating Tones 800/950 at 3Hz  2400Hz to 2900Hz at 120Hz	4 7 7 7 4 4 4 4 15	94 94 93 94 94 93 94 94 94 102	6 6 6 6 6 6 6	100 100 100 99 99 100 100 101	12 12 12 13 14 13 12 12 12	91 91 92 89 89 87 91 89	5 5 5 5 5 4 4 5	99 99 99 95 95 95 95 99 96 108	14 11 11 11 10 11 10 30	84 84 84 84 84 84 84 84 89 90	6 6 6 7 4 7 6 7	90 90 90 90 90 90 90 90 90 90	13 13 13 14 8 14 13 14 30
6 7 8 9 10 11 12	11000 00100 10100 01100 11100 00010 10010 01010 01010	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bask Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Fast Sweep HF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz   Sec on, 1 sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 19Hz	4 7 7 7 4 4 4 4 15	94 94 93 94 94 93 94 94 94 102	6 6 6 6 6 6 6 16	100 100 100 99 99 100 100 101 109	12 12 13 14 13 12 12 12 35 35	91 92 89 89 87 91 89 100	5 5 5 5 5 4 4 5 13	99 99 99 95 95 95 95 99 96 108	14 11 11 11 10 11 10 30 29	84 84 84 84 84 84 84 84 90	6 6 6 7 4 7 6 7 15	90 90 90 90 90 90 90 90 90 90 96 98	13 13 13 14 8 14 13 14 30 30
6 7 8 9 10 11 12 13	11000 00100 10100 01100 11100 00010 10010 01010 11010 00110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Slow Sweep HF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz	4 4 7 7 7 4 4 4 4 15 15	94 94 93 94 94 93 94 94 94 102 103	6 6 6 6 6 6 6 16 17	100 100 100 99 99 100 100 101 109 110	12 12 13 14 13 12 12 35 35	91 91 92 89 89 87 91 89 100 101	5 5 5 5 5 4 4 5 13	99 99 99 95 95 95 95 96 108 108	14 11 11 11 10 11 10 30 29	84 84 84 84 84 84 84 84 90 92	6 6 6 7 4 7 6 7 15	90 90 90 90 90 90 90 90 90 96 98	13 13 13 14 8 14 13 14 30 30
6 7 8 9 10 11 12 13 14	11000 00100 10100 01100 11100 00010 10010 01010 01010 00110 00110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Siow Sweep HF Banshee Continuous HF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz 2400Hz to 2900Hz at 3Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz*	4 4 7 7 4 4 4 4 15 15	94 94 93 94 94 93 94 94 102 103 103	6 6 6 6 6 6 6 16 17 17	100 100 100 99 99 100 100 101 109 110	12 12 13 14 13 12 12 12 35 35 35	91 91 92 89 89 87 91 89 100 101 102 98	5 5 5 5 5 4 4 5 13 12 13	99 99 99 95 95 95 95 99 96 108 108 109	14 11 11 11 10 11 10 30 29 30 27	84 84 84 84 84 84 84 89 90 92 90 94	6 6 6 7 4 7 6 7 15 15	90 90 90 90 90 90 90 90 90 90 96 98 96	13 13 14 8 14 13 14 30 30 30 30
6 7 8 9 10 11 12 13 14 15	11000 00100 10100 01100 11100 00010 10010 01010 11010 00110 10110 01110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bask Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Fast Sweep HF (New)	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz   Sec on, 1 sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz* 2400Hz to 2910Hz* 2450Hz to 3100Hz* 2450Hz to 3100Hz swept at 9Hz	4 4 7 7 4 4 4 4 15 15 15	94 94 93 94 94 94 94 94 102 103 103	6 6 6 6 6 6 6 16 17 17 19	100 100 100 99 99 100 100 101 109 110 110	12 12 13 14 13 12 12 35 35 35 39	91 91 92 89 89 87 91 89 100 101 102 98	5 5 5 5 5 4 4 5 13 12 13 15	99 99 99 95 95 95 95 96 108 108 109 103	14 11 11 11 10 11 10 30 29 30 27 27	84 84 84 84 84 84 84 84 90 92 90 94 87	6 6 6 7 4 7 6 7 15 15 15	90 90 90 90 90 90 90 90 90 90 96 98 96 100	13 13 14 8 14 13 14 30 30 30 30 30
6 7 8 9 10 11 12 13 14 15 16	11000 00100 10100 01100 011100 10010 01010 11010 00110 10110 01110 01110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Basck Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz/1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating 700Hz at 120Hz  2400Hz to 2900Hz at 120Hz  2400Hz to 2900Hz at 170Hz  2400Hz to 2900Hz at 170Hz  2400Hz to 2900Hz at 170Hz  Continuous 2900Hz  2450Hz to 3100Hz swept at 9Hz  Intermittent at 2900Hz sec on, I sec off*	4 4 7 7 4 4 4 4 15 15 15 15	94 94 93 94 94 94 94 94 102 103 103 103	6 6 6 6 6 6 6 16 17 17 19 18	100 100 100 99 99 100 101 101 109 110 110	12 12 13 14 13 12 12 12 35 35 35 39 36	91 91 92 89 87 91 89 100 101 102 98	5 5 5 5 5 4 4 5 13 12 13 15 12	99 99 99 95 95 95 96 108 108 109 103	14 11 11 11 10 11 10 30 29 30 27 27 27	84 84 84 84 84 84 84 84 90 92 90 94 87	6 6 6 7 4 7 6 7 15 15 13 14 8	90 90 90 90 90 90 90 90 90 96 98 96 100 94	13 13 13 14 8 14 13 14 30 30 30 30 31 16
6 7 8 9 10 11 12 13 14 15 16 17	11000 00100 10100 01100 011100 10010 01010 01010 01110 01110 00011 101110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz/8 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 2400Uz900 at 3Hz	4 4 7 7 4 4 4 4 15 15 15 15 15	94 94 93 94 94 94 94 94 102 103 103 103 103 104	6 6 6 6 6 6 6 16 17 17 19 18 18	100 100 100 99 99 100 100 101 109 110 110	12 12 13 14 13 12 12 12 35 35 35 35 37 36	91 91 92 89 89 87 91 100 101 102 98 101 98	5 5 5 5 5 4 4 5 13 12 13 15 12	99 99 99 95 95 95 99 96 108 108 109 103 108	14 11 11 11 10 11 10 30 29 30 27 27 27 27	84 84 84 84 84 84 84 84 90 92 90 94 87 95	6 6 6 7 4 7 6 7 15 15 15 13	90 90 90 90 90 90 90 90 90 90 90 94 100 94	13 13 13 14 8 14 13 14 30 30 30 30 31 16 28
6 7 8 9 10 11 12 13 14 15 16 17 18	11000 00100 10100 01100 00110 00010 10010 11010 00110 10110 00110 10110 00001	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bask Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Slow Sweep HF Banshee Slow Sweep HF Banshee Stow Sweep HF Banshee Fast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop*	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz   sec on, 1 sec off Alternating 800Hz   sec on, 1 sec off Alternating 800Hz   100Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 200Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 9Hz 1450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz 1 sec on, 1 sec off* Alternating Tones 2400/2900 at 3Hz 500hz rising Tones 2400/2900 at 3Hz 500hz rising to 1200hz over 3.5 secs, silence 0.5 sec	4 4 7 7 4 4 4 4 15 15 15 15	94 94 93 94 94 94 94 94 102 103 103 103 103 104 95	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6	100 100 100 99 99 100 100 101 101 110 110	12 12 13 14 13 12 12 35 35 35 35 37 36 37	91 91 92 89 89 87 91 100 101 102 98 101 98	5 5 5 5 5 4 4 5 13 12 13 15 12 12 12	99 99 99 95 95 95 96 108 108 109 103 108 105 99	14 11 11 11 10 11 10 30 29 30 27 27 27 27 23	84 84 84 84 84 84 84 84 89 90 92 90 94 87 95 94 88	6 6 6 7 4 7 6 7 15 15 15 13 14 8	90 90 90 90 90 90 90 90 90 96 98 96 100 94 101	13 13 13 14 8 14 13 14 30 30 30 30 30 31 16 28
6 7 8 9 10 11 12 13 14 15 16 17	11000 00100 10100 01100 00110 00010 10010 11010 00110 10110 00110 10110 00001	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz/8 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 2400Uz900 at 3Hz	4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15	94 94 93 94 94 94 94 94 102 103 103 103 103 104	6 6 6 6 6 6 6 16 17 17 19 18 18	100 100 100 99 99 100 100 101 109 110 110	12 12 13 14 13 12 12 12 35 35 35 35 37 36	91 91 92 89 89 87 91 100 101 102 98 101 98	5 5 5 5 5 4 4 5 13 12 13 15 12	99 99 99 95 95 95 99 96 108 108 109 103 108	14 11 11 11 10 11 10 30 29 30 27 27 27 27 23 12	84 84 84 84 84 84 84 84 90 92 90 94 87 95	6 6 6 7 4 7 6 7 15 15 15 13 14 8 13 5	90 90 90 90 90 90 90 90 90 90 90 94 100 94	13 13 13 14 8 14 13 14 30 30 30 30 31 16 28
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	11000 00100 10100 11100 00010 11000 10010 00110 11010 00110 11110 00001 11010 11110	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound*	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Lontinuous 2900Hz at 3Hz Lontinuous 2900Hz at 3Hz 100Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz 1 sec on, I sec off* Alternating Tones 2400/2900 at 3Hz 500Hz rising to 1200Hz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS	4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 15	94 94 93 94 94 94 94 94 94 102 103 103 103 104 95	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6	100 100 100 99 99 100 100 101 101 110 110	12 12 13 14 13 12 12 35 35 35 35 37 36 37	91 91 92 89 89 87 91 89 100 101 102 98 101 98 98	5 5 5 5 5 4 4 5 13 12 13 15 12 12 11 5	99 99 99 95 95 95 99 96 108 109 103 108 103 105 99	14 11 11 11 10 11 10 30 29 30 27 27 27 27 23	84 84 84 84 84 84 84 84 89 90 92 90 94 87 95 94 88 88	6 6 6 7 4 7 6 7 15 15 15 13 14 8	90 90 90 90 90 90 90 90 96 98 96 100 94 101 100 95	13 13 13 14 8 14 13 14 30 30 30 30 30 31 16 28 10
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	11000 00100 10100 11100 00110 11100 00010 110010 01010 01110 01110 01110 00001 110011 01001 01001 01001	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bask Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Slow Sweep HF Banshee Slow Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Bourshee Fast Sweep HF (New) Boak Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz   sec on, 1 sec off Alternating 800Hz   sec on, 1 sec off Alternating 800Hz   100Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 200Hz at 120Hz 2400Hz to 200Hz at 19Hz 2400Hz to 2900Hz at 3Hz Continuous 3900Hz   sec on, 1 sec off* Alternating Tones 200/920Hz   sec on, 1 sec off* Alternating Tones 2400/2900 at 3Hz 500Hz to 3100Hz swept at 9Hz 1450Hz to 3100Hz swept at 9Hz 1450Hz to 3100Hz swept at 9Hz 150Hz falling to 500Hz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS	4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 4 4	94 94 93 94 94 94 94 94 94 102 103 103 103 103 104 95 93	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6	100 100 100 99 99 100 101 109 110 110 109 109	12 12 13 14 13 12 12 12 35 35 35 39 36 37 36 12	91 91 92 89 87 91 89 100 101 102 98 101 98 97 89 89	5 5 5 5 5 4 4 5 13 12 13 15 12 12 13 15 12 12 13	99 99 99 95 95 95 99 96 108 109 103 108 103 105 99	14 11 11 11 10 11 10 30 29 30 27 27 27 27 27 27 29 6	84 84 84 84 84 84 84 84 89 90 92 90 94 87 95 94 88 87	6 6 6 7 4 7 6 7 15 15 13 14 8 13 5 5	90 90 90 90 90 90 90 90 96 98 96 100 94 101 100 95 93	13 13 13 14 8 14 13 14 30 30 30 30 31 16 28 10
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	11000 00100 11100 01100 11100 00010 10010 01010 11010 00110 11110 00001 11001 00001 11001 00001 11001 00101 11001	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound*	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Lontinuous 2900Hz at 3Hz Lontinuous 2900Hz at 3Hz 100Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz 1 sec on, I sec off* Alternating Tones 2400/2900 at 3Hz 500Hz rising to 1200Hz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS	4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 4 4 4	94 94 93 94 94 93 94 94 94 102 103 103 103 103 103 104 95 93 90 89	6 6 6 6 6 6 6 16 17 17 19 18 18 17 5 4	100 100 100 99 99 100 100 101 109 110 110	12 12 13 14 13 12 12 12 35 35 35 39 36 37 36 12 10 7	91 91 92 89 87 87 91 89 100 101 102 98 101 98 98 91 89 89	5 5 5 5 5 4 4 4 5 13 12 13 15 12 12 13 15 14 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	99 99 99 95 95 95 95 96 108 108 109 103 108 103 105 99 97 92	14 11 11 11 10 30 29 30 27 27 27 27 27 23 12 9 6	84 84 84 84 84 84 84 84 90 92 90 94 87 95 94 88 87 84 88	6 6 6 7 7 6 7 15 15 15 13 14 8 13 5 4	90 90 90 90 90 90 90 90 96 98 100 94 101 100 95 99	13 13 13 14 8 14 13 14 30 30 30 30 31 16 28 10 10 8
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	11000 00100 11100 01100 11100 00010 11010 01010 11010 00110 01110 00001 10000 11000	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Basck Up Alarm LF Alternate LF Medium Sweep LF* Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Tast Sweep HF (New) Banshee Fast Sweep HF (New)	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz/1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating Tones 800/950 at 3Hz  2400Hz to 2900Hz at 120Hz  2400Hz to 2900Hz at 9Hz  2400Hz to 2900Hz at 3Hz  Continuous 2900Hz at 9Hz  Continuous 2900Hz at 9Hz  Alternating Tones 2400/250 at 3Hz  1250Hz to 3100Hz swept at 9Hz  Alternating Tones 2400/290 at 3Hz  500hz rising to 1200hz over 3.5 secs, silence 0.5 sec  1200Hz falling to 500Hz over I sec, silence 10mS, repeat  554Hz for 100mS and 440Hz for 400mS  420Hz repeating 0.625 sec on, 0.625 sec off  500Hz to 1200Hz sweeping, 3.75 secs off	4 4 7 7 4 4 4 4 15 15 15 15 15 15 4 4 4 4	94 94 93 94 94 93 94 94 94 102 103 103 103 104 95 93 90 89	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6 5 4	100 100 100 99 99 100 100 101 101 110 110	12 12 13 14 13 12 12 35 35 35 35 37 36 12 10 7	91 91 92 89 89 87 91 100 101 102 98 98 91 89 91 89	5 5 5 5 5 4 4 5 13 12 13 15 12 12 11 5 4 3 3 5	99 99 99 95 95 95 99 96 108 108 103 103 105 99 97 92 87	14 11 11 11 10 30 29 30 27 27 27 27 27 23 12 9 6 5	84 84 84 84 84 84 84 84 89 90 92 90 92 90 94 87 95 94 88 88 88	6 6 6 7 4 7 15 15 15 13 14 8 13 5 5	90 90 90 90 90 90 90 90 96 98 96 100 94 101 100 95 93 90 90 90	13 13 13 14 8 14 13 30 30 30 30 31 16 28 10
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	11000 00100 11100 01100 11100 00010 10010 10010 00110 10110 00110 11110 00001 11000 11001 11001 00101 11001 00101 11001 00101	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal Australian Factuation Signal US Temporal Tone LF	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz 100Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 2400/2900 at 3Hz 500Hz rising to 1200Hz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 10omS and 440Hz for 400mS 420Hz repeating 0.625 sec on, 0.625 sec off 500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off 950Hz for 0.5 sec on 0.5 sec off for 3 phases, silence for 1.5secs and repeat	4 7 7 4 4 4 4 15 15 15 15 15 15 15 4 4 4 4	94 94 93 94 94 94 94 94 102 103 103 103 104 95 93 90 89	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6 5 4 3 6 5	100 100 100 99 99 100 100 101 101 110 110	12 12 13 14 13 12 12 12 35 35 35 39 36 12 10 7	91 91 92 89 89 87 91 100 101 102 98 101 98 98 91 89	5 5 5 5 5 4 4 4 5 13 12 13 15 12 12 11 5 4 3 3 3 5 4	99 99 99 95 95 95 96 108 108 103 105 99 97 92 87	14 11 11 11 10 30 29 30 27 27 27 27 27 27 29 6 5	84 84 84 84 84 84 84 84 84 87 90 92 90 92 90 94 87 88 88 87 84 88 88	6 6 6 7 4 7 6 7 15 15 13 14 8 8 13 5 5 4	90 90 90 90 90 90 90 90 90 98 98 96 100 94 101 100 95 93 90 90	13 13 13 14 8 14 13 30 30 30 30 31 16 28 10 10 8
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	11000 00100 11100 001100 111100 00010 01010 11010 001110 11110 00001 10001 10001 10010 10101 00101 10101 00101 10101 00101 10101 00101 10101 00101	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Basck Up Alarm LF Alternate LF Medium Sweep LF* Alternate LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Tast Sweep HF Sanshee Fast Sweep HF Sanshee Tast Sweep HF Sanshee Fast Sweep HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Aert Signal Australian Fevacuation Signal US Temporal Tone LF US Temporal Tone LF	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz/1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating 700Hz swept at 0.5 secs  Alternating 700Hz at 120Hz  2400Hz to 2900Hz at 3Hz  Continuous 2900Hz  2450Hz to 3100Hz swept at 9Hz  Intermittent at 2900Hz so on, I sec off*  Alternating 700Hz swept at 9Hz  Intermittent at 2900Hz 1 sec on, I sec off*  Alternating 700Hz 50Hz 1 sec on, I sec off*  S00Hz rising to 1200Hz over 1 sec, silence 0.5 sec  1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat  554Hz for 100mS and 440Hz for 400mS  420Hz repeating 0.625 sec on, 0.625 sec off  500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off  500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 sec off  500Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat  2900Hz 6.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat	4 4 7 7 7 4 4 4 4 115 115 115 115 115 115 115 115	94 94 94 93 94 94 94 94 94 102 103 103 103 103 104 95 93 90 89 95 93	6 6 6 6 6 6 6 6 16 17 17 19 18 18 18 17 6 5 4 3 6 5	100 100 100 99 100 100 101 101 110 110 1	12 12 12 13 14 13 12 12 35 35 35 39 36 37 7 6 12 10 7	91 91 92 89 87 91 100 101 102 98 101 98 91 89 85 81 89 89	5 5 5 5 5 4 4 5 13 12 13 15 12 12 11 15 4 3 3 3 5 4	99 99 99 99 95 95 95 99 96 108 109 103 108 105 99 97 92 87 99 95 103	14 11 11 11 10 11 10 30 29 30 27 27 27 27 23 12 9 6 5	84 84 84 84 84 84 84 84 87 90 92 90 94 87 88 88 88 84 95	6 6 6 7 4 7 7 15 15 15 13 14 8 13 5 5 4 3	90 90 90 90 90 90 90 90 96 98 96 100 94 101 100 95 90 90 90 90	13 13 13 14 8 14 13 30 30 30 30 30 31 16 28 10 10 8 5
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	11000 00100 11100 01100 01100 11100 00010 01010 10110 00110 11110 00001 11000 01001 11001 00101 01001 11001 00101 00101 00101	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bank Up Alarm LF Alternate LF Medium Sweep LF* Alternate LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Bank Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal Australian Evacuation Signal US Temporal Tone LF US Temporal Tone HF Swedish Tone (Fire)	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz/1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating Tones 800/950 at 3Hz  2400Hz to 2900Hz at 120Hz  2400Hz to 2900Hz at 12Hz  2400Hz to 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Alternating Tones 2400/290 at 3Hz  2450Hz to 3100Hz swept at 9Hz  Intermittent at 2900Hz ls sec on, I sec off*  Alternating Tones 2400/290 at 3Hz  500hz fsing to 1200hz over 3.5 secs, silence 0.5 sec  1200Hz falling to 500Hz over I sec, silence 10mS, repeat  554Hz. for 100mS and 440Hz for 400mS  420Hz repeating 0.625 sec on, 0.625 sec off  550Hz for 1200Hz sweeping, 3.75 secs on, 0.25 secs off  550Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for I.5secs and repeat  Intermittent 660Hz 150mS on, 150mS off	4 4 7 7 7 4 4 4 4 4 15 15 15 15 15 15 14 4 4 4 4	94 94 94 93 94 94 94 94 94 102 103 103 103 104 95 99 89 99 99 89	6 6 6 6 6 6 6 6 6 16 17 17 19 18 18 18 17 4 3 6 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 100 100 100 99 99 100 100 110 110 11	12 12 12 13 14 13 12 12 12 35 35 35 35 36 37 36 12 10 7 6	91 91 92 89 87 91 100 101 102 98 98 91 89 89 91 89 89 85 81 91 89	\$ 5 5 5 5 4 4 4 5 5 13 12 12 12 12 14 3 3 3 5 5 4 4 9 9 3	99 99 99 95 95 95 99 96 108 103 103 105 99 97 92 87 99 95 103	14 11 11 11 10 30 29 30 27 27 27 27 29 6 5	84 84 84 84 84 84 84 84 84 89 90 92 90 94 87 95 94 88 87 84 83 88 84 84 84 86 86 86 86 86 86 86 86 86 86 86 86 86	6 6 6 7 4 7 7 15 15 15 13 14 8 8 13 5 5 4 3	90 90 90 90 90 90 90 90 96 98 96 100 95 94 101 100 95 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 14 8 14 13 30 30 30 30 31 16 28 10 10 8 5 10
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	11000 00100 11100 01100 11100 01100 10100 10110 01110 01110 01110 01110 01101 01010 01101 01010 01101	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Sow Sweep HF Banshee Fast Sweep HF Som Medium Sweep HF Banshee Fast Sweep HF Som Tone (DK) French Fire Sound* Australian Alert Signal Australian Alert Signal Australian Facuation Signal Us Temporal Tone LF US Temporal Tone LF US Temporal Tone HF Swedish Tone (Fire) Swedish Tone (All Clear)	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 10Hz 2400Hz to 2900Hz at 10Hz 2400Hz to 2900Hz at 3Hz 2400Hz to 3100Hz swept at 9Hz 100Hz to 3100Hz swept at 9Hz 100Hz to 3100Hz secs, at 1 sec on, I sec off* Alternating Tones 2400/2900 at 3Hz 500Hz rising to 1200Hz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS 420Hz repeating 0.625 sec on, 0.625 sec off 500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off 950Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for I.5secs and repeat Intermittent 660Hz 150mS on, 150mS off	4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 15 15 26 27	94 94 94 93 94 94 94 94 102 103 103 103 104 95 93 104 95 93 90 99 99 99 99 99	6 6 6 6 6 6 6 6 17 17 19 18 18 18 17 6 5 4 3 6 5 13 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	100 100 100 100 100 100 100 101 101 109 109	12 12 12 13 14 13 12 12 12 12 35 35 35 36 37 36 12 10 7 6 12 10 12	91 91 92 89 87 91 100 101 102 98 98 91 89 91 89 91 89 91 87 91 87 97 97 98	\$ 5 5 5 5 4 4 4 5 5 12 12 11 5 5 4 9 9 3 4 4	99 99 99 95 95 95 95 99 96 108 109 103 105 99 97 97 92 87 99 95 81	14 11 11 10 11 10 29 30 27 27 27 27 27 29 6 5 10 9	84 84 84 84 84 84 84 84 84 89 90 92 90 94 87 88 88 87 84 83 88 84 95 86 87 87 88 88 89 89 89 89 89 89 89 89 89 89 89	6 6 6 7 4 7 15 15 15 15 13 14 8 13 5 5 4 4 3 5 5	90 90 90 90 90 90 90 90 96 98 96 100 94 101 100 95 93 90 90 90 91 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 14 8 14 13 30 30 30 30 31 16 28 10 10 8 13 6
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28	11000 00100 11100 001100 11100 00010 10010 01110 00110 10110 10110 10110 10101 1	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Basck Up Alarm LF Alternate LF Medium Sweep LF* Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Fast Sweep HF Continuous HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Tast Sweep HF Continuous HF Banshee Tast Sweep HF Continuous HF Con	Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz i sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 0.5 secs Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 10Hz 2400Hz to 2900Hz at 10Hz 2400Hz to 2900Hz at 3Hz Continuous 3900Hz at 3Hz Continuous 1900Hz be 1 sec on, I sec off* Alternating Tones 2400/2900 at 3Hz Soothz rising to 1200hz over 1 sec, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS 420Hz repeating 0.625 sec on, 0.625 sec off 500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off 500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off 500Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat intermittent 660Hz 150mS on, 150mS off Continuous 660Hz Intermittent 790Hz 500mS on, 500mS off* Vodel 800Hz/1000Hz, 0.25sec each frequency	4 4 7 7 7 4 4 4 4 4 15 15 15 15 15 15 15 14 4 4 4	94 94 93 94 94 93 94 94 102 103 103 103 104 95 93 90 89 90 90 90 90 90	6 6 6 6 6 6 6 6 17 17 19 18 18 17 6 5 4 4 3 6 5 5 13 3 5 5 5 5 5 5 5 5 5 5 7 7 8 7 8 7 8 7 8 7	100 100 100 99 99 100 100 101 101 109 109	12 12 12 13 14 13 12 2 35 35 35 35 37 36 37 7 6 12 10 7 6	91 91 92 89 89 87 91 100 101 102 98 101 98 89 89 85 81 89 89 85 81 89 85 85 86 87 89 89 89 89 89 89 89 89 89 89 89 89 89	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	99 99 99 99 95 95 95 99 96 108 103 103 105 103 105 87 99 97 92 87 103 81 84 91	14 11 11 11 10 30 29 30 27 27 27 27 29 6 5 10 9 9	84 84 84 84 84 84 84 84 84 89 90 92 90 94 87 95 94 88 88 88 87 88 88 84 95 86 87 83 88 84 84 84 84 84 84 84 84 84 84 84 84	6 6 6 6 7 7 4 4 7 15 15 15 13 13 5 4 4 3 5 4	90 90 90 90 90 90 90 90 96 98 98 100 95 99 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 14 8 14 14 13 30 30 30 30 31 16 28 10 10 8 13 6 10 8
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	11000 00100 11100 01100 01100 11100 00010 01010 10110 00110 11110 00011 01010 11100 00101 11001 00101 11101 11101 1101	Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF* Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Banshee F	Continuous at 900Hz  830Hz to 970Hz swept at 9Hz  800Hz to 970Hz swept at 1Hz  Continuous at 950Hz  Intermittent at 950Hz I sec on, I sec off  Alternating 800Hz/1000Hz at 1Hz  800Hz to 1000Hz swept at 0.5 secs  Alternating Tones 800/950 at 3Hz  2400Hz to 2900Hz at 12Hz  2400Hz to 2900Hz at 12Hz  2400Hz to 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Continuous 2900Hz at 3Hz  Solon at 120Hz  2450Hz to 3100Hz swept at 9Hz  Intermittent at 2900Hz at sec on, I sec off*  Alternating Tones 2400/2900 at 3Hz  Solon at 3Hz	4 4 7 7 7 4 4 4 4 115 115 115 115 115 115 115 115	94 94 94 93 94 94 94 94 94 102 103 103 103 103 104 95 95 99 90 89 90 90 90 90 90 90 90 90 90 90 90 90 90	6 6 6 6 6 6 6 6 6 16 17 17 17 19 18 18 17 6 5 4 3 3 6 5 5 13 13 13 13 13 13 13 13 13 13 13 13 13	100 100 100 100 99 99 100 100 110 110 11	12 12 12 13 14 13 15 35 35 35 37 36 12 10 7 6 12 10 27	91 91 92 89 89 87 91 100 101 102 98 91 89 89 85 81 91 98 85 81 99 87 57 57 57 57	\$ 5 5 5 5 5 5 4 4 4 5 5 13 12 12 12 11 5 5 4 5 5 13 3 3 5 5 4 4 9 9 3 3 4 4 8 8 9	99 99 99 99 95 95 95 99 108 108 103 103 103 105 87 99 97 92 87 99 95 103 81 81	14 11 11 11 10 30 29 30 27 27 27 27 27 29 6 5 10 9 20 5 9	84 84 84 84 84 84 84 84 84 89 90 92 90 94 87 88 88 87 84 83 88 84 95 86 87 87 88 88 89 89 89 89 89 89 89 89 89 89 89	6 6 6 6 7 7 6 7 15 15 15 15 15 13 3 5 4 4 3 5 4 6 6 7 7 8 8 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	90 90 90 90 90 90 90 90 96 98 100 95 93 99 90 101 102 99 90 90 90 90 91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 14 8 14 13 30 30 30 31 16 28 10 10 8 5 10 10 8

#### Notes

\*Tones highlighted in bold are approved under the Construction Product Directive. Sound output (dBA) and current (mA) values are typical.

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