

Banshee Excel™ Sounder Range







Fire Alarms

Banshee

Electronic Sounders

BS 5839-1

FlashDome

Evacuation

Audible Alarm

EN 54-3

Beacons

www.acornfiresecurity.com

Banshee Excel™

The Banshee Excel™ 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 slimest 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 Sounder

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 Banshee Excel™ sounder is fitted with a professional capsule driven horn. All models use the push and twist bayonet fitting Banshee™ base.



- 32 user-selectable tones industry standard compatible
- Very low current consumption
- EN 54-3 tested and fully approved in accordance with CPR
- VdS approved
- Uses same bases as Banshee^{MT} 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 $Excel^{TM}$ 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 fully approved in accordance with CPR
- 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 mm² terminals





Banshee Excel Lite™ CHX & CHL 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 model).

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
- Choice of lens colours (CHX: Red, Clear, Amber, Blue, Green / CHL: Red, Clear)
- Sounder has 32 user-selectable tones industry standard compatible
- Very low current consumption
- EN 54-3 tested and fully approved in accordance with CPR
- VdS approved
- 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^{MT} simple push and twist bayonet mounting with locking screw
- Extensive family of accessories for a wide range of applications
- Recyclable



Choice of lens colour:















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^{MT} simple push and twist bayonet mounting with locking screw

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	Banshee Excel Lite™ CHX & CHL	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) 90 (CHX), 12 (CHL)	-	5 5	-
Sound Output (dBA Typ @Im):	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	-	Red	-
Temperature Range (Deg C):	-40 to +70	-15 to +40 (CHX) -20 to +70 (CHL)	-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):	-	I	-	I	-
Termination:		Screw terminal	s for 0.28 mm ² to 2.5 mm ² wir	e conductor	

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

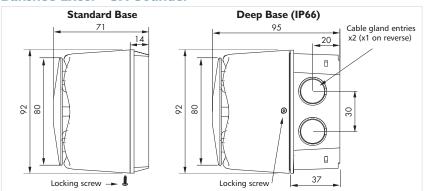
Installation

Banshee Excel[™] Common Base

Standard Deep Base (IP66) Hole x2 Hole x2 Slot x4 Slot x4 4.5 View from View from inside base inside base

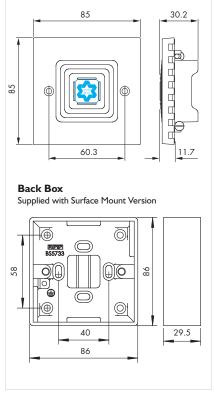
Used with Banshee Excel[™] CH, Banshee Excel Lite[™] CHX & CHL and Banshee Excel[™] FlashDome

Banshee Excel™ CH Sounder



Banshee Excel™ BD Bedroom Sounder

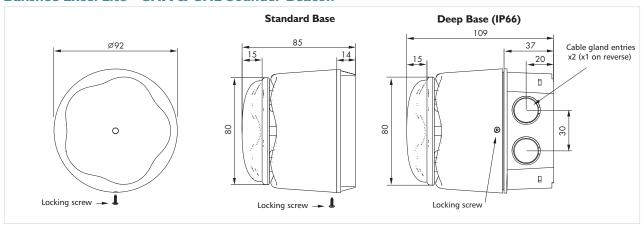
Flush Mounted



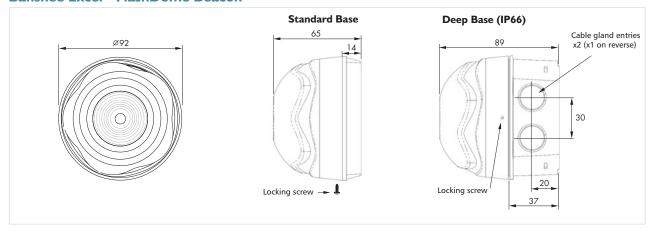
Dimensions (mm)

Installation

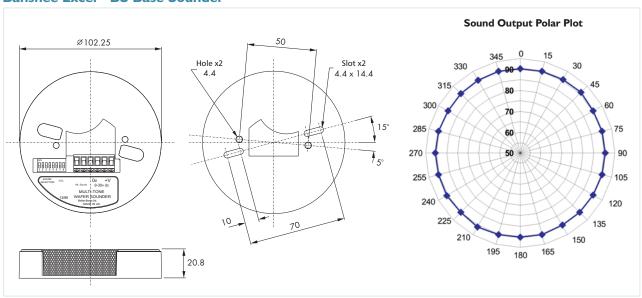
Banshee Excel Lite™ CHX & CHL Sounder Beacon



Banshee Excel™ FlashDome Beacon



Banshee Excel™ BS Base Sounder



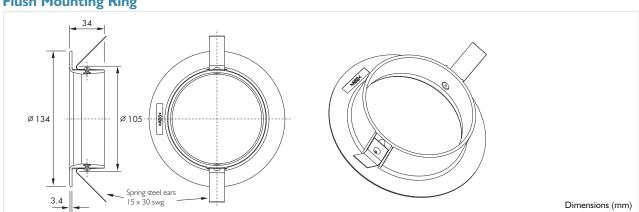
Dimensions (mm)

Accessories

Accessory	Description	Part No.						Excel™:
			강	, &	ФО	Litte .	ckit Vite	CHI Cone
	Flush Mounting Ring	8502900	•				-	
© O	Combination Bracket	8503000	•			•	•	٠
	Mains Pack I I 0/230 Vac to 24 Vdc	8502700	•				•	•
	Wall Fixing Clip	8503100	•				•	٠
	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	•	•	•	•	•	1

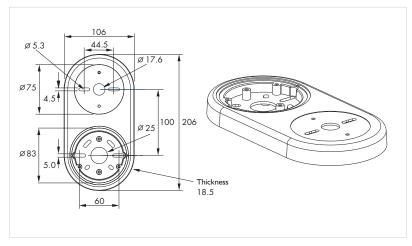
Accessories Installation

Flush Mounting Ring

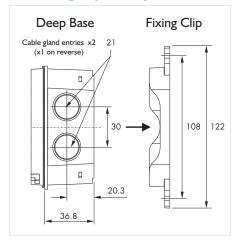


Accessories Installation

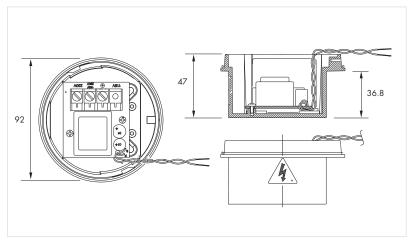
Combination Bracket



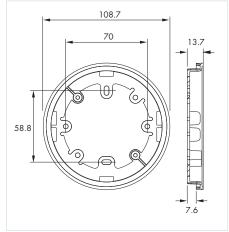
Wall Fixing Clip & Deep Base



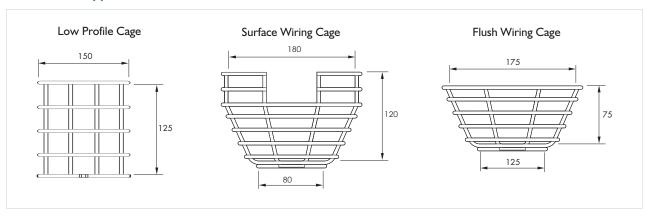
Mains Pack



Base Sounder Cable Spacing Ring



Steel Web Stoppers



Dimensions (mm)

Sound Output Table & Tone Specification

To	one Information			Banshee Excel™ CH				Banshee Excel Lite™ CHX				
		2000-20			(12V) (24V)			IV)	(12	2V)	(24	IV)
No.	DIL SW 1 2 3 4 5	Description	Frequency and timing	2nd Tone	dBA	mA	dBA	mA	dBA	mA	dBA	mA
1	00000	Banshee Buzz LF	800Hz to 950Hz swept at 120Hz	4	94	6	101	12	94	6	100	12
2	10000	Banshee Fast Sweep LF*	800Hz to 950Hz swept at 120Hz	4	94	6	101	12	94	6	100	12
3	01000	Banshee Slow Sweep LF	800Hz to 950Hz swept at 3Hz	4	94	6	101	12	94	6	100	12
4	11000	Banshee Continuous LF	Continuous at 900Hz	4	94	6	101	12	94	6	100	12
5	00100		830Hz to 970Hz swept at 9Hz	4	95	6	101	12	93	6	100	12
6	10100	Medium Sweep LF*	800Hz to 970Hz swept at IHz	7	96	6	101	12	94	6	100	12
7	01100	Continuous LF	Continuous at 950Hz	7	96	6	102	13	94	6	99	13
8	11100	Back Up Alarm LF	Intermittent at 950Hz I sec on, I sec off	4	96	8	102	14	93	6	99	14
9	00010	Alternate LF	Alternating 800Hz/1000Hz at 1Hz	4	94	6	100	13	94	6	100	13
10	10010	Medium Sweep LF	800Hz to 1000Hz swept at 0.5 secs	4	95	6	101	12	94	6	100	12
11	01010	Alternate LF	Alternating Tones 800/950 at 3Hz	4	96	6	101	12	94	6	101	12
12	11010	Banshee Buzz HF	2400Hz to 2900Hz at 120Hz	15	102	16	110	35	102	16	109	35
13	00110	Banshee Fast Sweep HF	2400Hz to 2900Hz at 9Hz	15	103	17	110	35	103	17	110	35
15	10110	Banshee Slow Sweep HF	2400Hz to 2900Hz at 3Hz Continuous 2900Hz*	15	103	17	110	35 39	103	17	110	35 39
16	01110	Banshee Continuous HF Banshee Fast Sweep HF (New)	2450Hz to 3100Hz swept at 9Hz	15	103	18	110	36	103	18	109	36
17	00001	Back Up Alarm HF	Intermittent at 2900Hz I sec on, I sec off*	15	103	18	110	36	103	18	109	37
18	10001	Alternate HF	Alternating Tones 2400/2900 at 3Hz	15	104	16	110	36	103	17	110	36
19	01001	Slow Whoop*	500hz rising to 1200hz over 3.5 secs, silence 0.5 sec	4	95	6	101	12	95	6	101	12
20	11001	Din Tone (DK)*	1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat	4	93	5	100	10	93	5	100	10
21	00101	French Fire Sound*	554Hz for 100mS and 440Hz for 400mS	4	90	4	96	7	90	4	96	7
22	10101	Australian Alert Signal	420Hz repeating 0.625 sec on, 0.625 sec off	4	89	3	95	6	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	95	6	101	12
24	11101	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	93	5	99	10
25	00011	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	103	13	109	27
26	10011	Swedish Tone (Fire)	Intermittent 660Hz 150mS on, 150mS off	26	90	3	96	6	90	3	96	6
27	01011	Swedish Tone (All Clear)	Continuous 660Hz	27	91	5	97	9	91	5	97	9
28	11011	ISO8201 LF	Intermittent 970Hz 500mS on, 500mS off	28	93	5	99	10	90	5	96	10
29	00111	ISO8201 HF	Intermittent 2900Hz 500mS on, 500mS off*	29	103	13	110	27	103	13	109	27
30	10111	BT Banshee (FP1063.1)	Yodel 800Hz/1000Hz, 0.25sec each frequency	31	93	6	100	12	94	6	100	12
31	01111	BT Banshee (FP1063.1)	Continuous 1000Hz	31	90	6	96	14	88	6	94	14
	11111	Bell Tone	Bell Tone	32	96	12	101	25	94	12	99	25
32	11111	Dell Toric		92	70	12	101	2.5	/1	14		2.5
32		Deli Fore				Same S	el Lite™				Excel™ E	
32		Banshee Buzz LF		4		Same S						
		Banshee Buzz LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz		Bans	hee Exc	el Lite™	CHL	В	anshee I	Excel™ E	BS
1	00000	30	800Hz to 950Hz swept at 120Hz	4	Bans 94	hee Exc	el Lite™	CHL 12	B a	anshee I	Excel™ E	B S
1 2	00000	Banshee Buzz LF Banshee Fast Sweep LF*	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz	4 4	94 94 94 94	hee Exc	100 100 100 100	12 12 12 12	85 84 84 84	anshee I	91 90 90 90	13 13
1 2 3	00000 10000 01000 11000	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz	4 4 4 4	94 94 94 94 94 93	6 6 6	100 100 100 100 100	12 12 12 12 12	85 84 84 84 84	6 6 6	91 90 90 90 90 90	13 13 13 13
1 2 3 4 5	00000 10000 01000 11000 00100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz	4 4 4 4	94 94 94 94 93 94	6 6 6	100 100 100 100 100 100	12 12 12 12 12 12	85 84 84 84 84 84	6 6 6 6	91 90 90 90 90 90 90	13 13 13 13 13
1 2 3 4 5 6	00000 10000 01000 11000 00100 10100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz	4 4 4 4 7 7	94 94 94 94 94 93 94	6 6 6 6 6 6	100 100 100 100 100 100 100 99	12 12 12 12 12 12 12 12	85 84 84 84 84 84 84	6 6 6 6 6 6 6	91 90 90 90 90 90 90 90	13 13 13 13 13 13
1 2 3 4 5 6 7 8	00000 10000 01000 11000 00100 10100 01100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 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 4 4 7 7 7	94 94 94 94 94 93 94 94 93	6 6 6 6 6 6 6 6	100 100 100 100 100 100 100 99 99	12 12 12 12 12 12 12 13	85 84 84 84 84 84 84 84	6 6 6 6 6 6 6 7	91 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8
1 2 3 4 5 6 7 8	00000 10000 01000 11000 00100 10100 01100 11100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 800Hz to 970Hz swept at 3Hz 800Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz l sec on, I sec off Alternating 800Hz/1000Hz at 1Hz	4 4 4 4 7 7 7 4	94 94 94 94 93 94 93 94 93	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100 100 100 100 100 100 100 99 99	12 12 12 12 12 12 12 13 14	85 84 84 84 84 84 84 84 84	6 6 6 6 6 6 6 7 4	91 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8
1 2 3 4 5 6 7 8 9	00000 10000 01000 11000 00100 10100 01100 11100 00010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 830Hz to 970Hz swept at 9Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz B00Hz to 1000Hz swept at 0.5 secs	4 4 4 4 7 7 7 4 4	94 94 94 94 93 94 93 94 93 94	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100 100 100 100 100 100 99 99 100 100	12 12 12 12 12 12 12 13 14 13	85 84 84 84 84 84 84 84 84 84	6 6 6 6 6 6 6 7 4 7	91 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14
1 2 3 4 5 6 7 8 9	00000 10000 01000 11000 00100 10100 01100 0010 10100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 900Hz 830Hz 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 70nes 800/950 at 3Hz	4 4 4 4 7 7 7 4 4 4	94 94 94 94 93 94 94 93 94 94	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100 100 100 100 100 100 100 100 100 100 100 100 100 101	12 12 12 12 12 12 12 13 14 13 12	85 84 84 84 84 84 84 84 84 84	6 6 6 6 6 7 4 7 6 7	91 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14
1 2 3 4 5 6 7 8 9 10	00000 10000 01000 11000 00100 10100 01100 00010 10010 01010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Sow Sweep LF 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	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 800Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz les con, 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 120Hz	4 4 4 4 7 7 7 4 4 4 4 4 15	94 94 94 94 93 94 94 93 94 94 94	6 6 6 6 6 6 6 6 16	el Lite*** 100 100 100 100 100 100 100 100 100	12 12 12 12 12 12 12 13 14 13 12 12 12	85 84 84 84 84 84 84 84 84 84 89	6 6 6 6 6 7 4 7 6 7 15	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 13
1 2 3 4 5 6 7 8 9 10 11 12	00000 10000 01000 11000 00100 01100 01100 11100 00010 01001 01010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF 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	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 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	4 4 4 4 7 7 4 4 4 4 15	94 94 94 94 93 94 94 93 94 94 94 102	6 6 6 6 6 6 6 6 16 17	100 100 100 100 100 100 100 100 100 100 100 100 100 101 109 110	12 12 12 12 12 12 12 13 14 13 12 12 12 35	85 84 84 84 84 84 84 84 84 89 90	6 6 6 6 6 7 4 7 6 7 15 15	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8 14 14 13 14 30 30
1 2 3 4 5 6 7 8 9 10 11 12 13	00000 10000 11000 011000 00100 10100 011100 00010 11010 11010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Solw Sweep 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 Fast Sweep HF Banshee Slow Sweep HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 9Hz	4 4 4 4 7 7 4 4 4 4 15 15	94 94 94 94 93 94 94 93 94 94 102 103	6 6 6 6 6 6 6 16 17 17	100 110 110	12 12 12 12 12 12 12 13 14 13 12 12 35 35	85 84 84 84 84 84 84 84 84 89 90	6 6 6 6 6 7 4 7 6 7 15 15 15	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8 14 14 13 14 30 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14	00000 10000 11000 011000 00100 10100 011100 00010 01010 11010 00110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Bansk UP Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Continuous HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 800Hz to 970Hz swept at 1Hz Continuous at 950Hz I sec on, I sec off 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 19Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz	4 4 4 4 7 7 7 4 4 4 4 15 15	94 94 94 94 94 93 94 94 94 94 102 103 103	6 6 6 6 6 6 6 6 6 6 16 17 17 19	100 100	12 12 12 12 12 12 12 13 14 13 12 12 12 35 35 35	85 84 84 84 84 84 84 84 84 89 90 92	7 6 6 6 6 6 6 7 7 6 7 15 15	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 30 30 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	00000 10000 01000 011000 01100 01100 01100 111100 01100 11010 01110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Continuous LF Banshee Continuous LF Back Up Alarm LF Alternate LF Medium Sweep LF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Continuous HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 7ones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz*	4 4 4 4 7 7 7 4 4 4 4 15 15 15	94 94 94 94 94 93 94 94 94 94 102 103 103	6 6 6 6 6 6 6 6 6 6 16 17 17 19 18	el Lite *** 100 100 100 100 100 100 99 99 100 100	12 12 12 12 12 13 14 13 12 12 35 35 35 39 36	85 84 84 84 84 84 84 84 84 87 90 92 90 94	7 4 7 6 7 15 15 13 14	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 13 30 30 30 30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	00000 10000 01000 11000 00100 01100 01100 01100 10010 01010 01110 00110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Solw Sweep 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 Slow Sweep HF Banshee Slow Sweep HF Banshee Fast Sweep HF (New)	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 9Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 9Hz 2400Hz to 3100Hz swept at 9Hz 12450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz sec on, I sec off*	4 4 4 4 7 7 7 4 4 4 4 15 15 15	94 94 94 94 94 93 94 94 94 94 102 103 103 103	6 6 6 6 6 6 6 6 16 17 17 19 18 18	el Lite *** 100 100 100 100 100 100 100 100 100	12 12 12 12 12 13 14 13 12 12 35 35 35 39 36 37	85 84 84 84 84 84 84 84 84 89 90 92 90 94 87	6 6 6 6 6 7 4 7 6 7 15 15 15 13 14 8	91 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 13 14 30 30 30 30 31
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	00000 10000 01000 11000 00100 01100 01100 01100 01010 01010 01010 01110 01110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Banske UP Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Stat Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back UP Alarm HF Alternate HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 800Hz to 950Hz swept at 3Hz 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 70ones 800/950 at 3Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating 70ones 2400/2900 at 3Hz	4 4 4 4 4 7 7 7 7 4 4 4 4 15 15 15 15 15	94 94 94 94 94 93 94 94 94 102 103 103 103 103	6 6 6 6 6 6 6 6 16 17 17 19 18 18 17	100 100	CHL 12 12 12 12 12 12 12 13 14 13 14 13 12 12 12 35 35 35 35 37 36	85 84 84 84 84 84 84 84 84 87 90 92 90 94 87	6 6 6 6 6 6 6 7 4 7 6 7 15 15 15 13	91 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 30 30 30 30 31 16
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19	00000 10000 01000 11000 00100 00100 01100 00010 01010 01010 01010 01010 01110 00110 11110 00011	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Back 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 Tast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop*	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz Continuous 2900Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 800/950 at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz sec on, I sec off* Alternating Tones 2400/2900 at 3Hz S00Nz rising to 1200Hz over 3.5 secs, silence 0.5 sec	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15	94 94 94 94 94 93 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	12 12 12 12 12 13 14 13 12 12 35 35 35 39 36 37 36 12	85 84 84 84 84 84 84 84 84 90 92 90 94 87 95 94 88	7 6 6 6 6 6 6 7 4 7 6 7 15 15 15 13 14 8 8	91 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 13 14 8 14 14 13 14 30 30 30 30 30 30 16 16 28
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	00000 10000 01000 11000 00100 01100 01100 01100 01010 01010 01010 01110 01110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Banske UP Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Stat Sweep HF Banshee Continuous HF Banshee Fast Sweep HF (New) Back UP Alarm HF Alternate HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 800Hz to 950Hz swept at 3Hz 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 70ones 800/950 at 3Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating 70ones 2400/2900 at 3Hz	4 4 4 4 4 7 7 7 7 4 4 4 4 15 15 15 15 15	94 94 94 94 94 93 94 94 94 102 103 103 103 103	6 6 6 6 6 6 6 6 17 17 19 18 18 18 17 6 5	100 100	CHL 12 12 12 12 12 12 12 13 14 13 14 13 12 12 12 35 35 35 35 37 36	85 84 84 84 84 84 84 84 84 87 90 92 90 94 87	7 15 15 13 14 8 13 5 5 5	91 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 13 14 8 14 14 13 30 30 30 30 31 16 28
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	00000 10000 01000 10100 011000 01100 011100 00010 11100 01010 11010 01110 01110 01110 01110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Banske UP Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Slow Sweep HF (New) Banshee Fast Sweep HF (New) Back UP Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound*	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz 1 sec on, I sec off* Alternating 70nes 2400/2900 at 3Hz 500Nz rising to 1200Nz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat	4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15	94 94 94 94 94 93 94 94 94 94 102 103 103 103 103 103 195 95	6 6 6 6 6 6 6 16 17 17 19 18 18 17 6	100 100	12 12 12 12 12 13 14 13 12 12 12 35 35 35 39 36 37 36 12 10	85 84 84 84 84 84 84 84 84 87 90 92 90 94 87 95 94 88 88	7 6 6 6 6 6 6 7 4 7 6 7 15 15 15 13 14 8 8	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 13 30 30 30 30 31 16 16 16 16 16 16 16 16 16 16 16 16 16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	00000 10000 11000 11000 01100 01100 01110 00010 11110 01110 01110 01110 01110 01110 11110 01010 01010 01010 01010 01010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Back Up Alarm LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Slow Sweep HF Sanshee Son Sweep HF Sanshee Tast Sweep HF Sanshee Tast Sweep HF Nack Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 1830Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 800/950 at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz sec on, I sec off* Alternating Tones 2400/2900 at 3Hz S00hz 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	4 4 4 4 7 7 7 4 4 4 4 4 15 15 15 15 15 15 14 4	94 94 94 94 93 94 94 93 94 94 102 103 103 103 104 95 93	6 6 6 6 6 6 6 6 6 16 17 17 19 18 18 18 17 6 5 4	Lite Market 100 100 100 100 100 100 100 100 100 100 100 100 100 110 110 109 110 109 110 109 110 100 100 100 100 100 100 100 100 96	CHL 12 12 12 12 12 13 14 13 14 13 12 35 35 35 37 36 37 36 10 7	85 84 84 84 84 84 84 84 84 87 90 92 90 94 87 95 94 88 87	8 13 5 5 4	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 13 14 8 14 14 13 30 30 30 30 30 31 16 28
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	00000 10000 01000 11000 00100 10100 01100 00110 01010 01010 11110 00110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110 01110	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Banske UP Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Slow Sweep HF (New) Banshee Fast Sweep HF (New) Back UP Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound*	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz to 3100Hz swept at 9Hz Intermittent at 2900Hz 1 sec on, I sec off* Alternating 70nes 2400/2900 at 3Hz 500Nz rising to 1200Nz over 3.5 secs, silence 0.5 sec 1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 14 4 4 4	94 94 94 94 93 94 94 93 94 94 102 103 103 103 104 95 93	6 6 6 6 6 6 6 6 6 17 17 19 18 18 17 6 5 4 3	el Lite™ 100 100 100 100 100 100 100 100 100 10	CHL 12 12 12 12 12 12 13 14 13 12 12 12 13 35 35 35 37 36 12 10 7	85 85 84 84 84 84 84 84 84 84 84 87 90 92 90 94 87 95 94 88 87 88 88 87	8 13 5 5 4 3 3	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8 14 14 13 30 30 30 31 16 28 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	00000 10000 01000 11000 011000 01100 011100 00010 11100 01010 11010 01110 01110 01110 00001 11010 01010 11010 01010 11010 01010 01010 01010 01010	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Fast Sweep LF Banshee Fast Sweep LF (New) Medium Sweep LF* Back Up Alarm LF Back Up Alarm LF Alternate LF Back Up Alarm LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Continuous HF Banshee Fast Sweep HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Adstralian Australian Alastralian Australian Alastralian Australian Alastralian Alastralian Alastralian Australian Australian Alastralian Australian Australian Alastralian Australian Alastralian Australian Alastralian Alastralian Australian Alastralian Australian Alastralian Alastral	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 5.5 secs Alternating 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 9Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz to 3100Hz swept at 9Hz 100Hz falling to 500Hz 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	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 4 4 4 4	94 94 94 94 94 94 93 94 94 94 102 103 103 103 103 103 95 93 99 95	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	el Lite™ 100 100 100 100 100 100 100 100 100 10	CHL 12 12 12 12 12 12 12 13 14 13 12 12 12 35 35 36 37 36 17 6 10 7 6 12	85 85 84 84 84 84 84 84 84 84 84 90 92 92 97 95 88 87 88 88 88 88 88	8 13 5 5 4 3 3 5	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8 14 14 30 30 30 30 30 31 16 28 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	00000 10000 01000 01000 011000 01100 011100 111100 11010 00110 11110 011110 11110 10001 00101 10001 00101 10001 00101 10001	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Fast Sweep LF Banshee Fast Sweep LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Banshee Fast Sweep LF (New) Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Continuous HF Banshee Continuous HF Banshee Tast Sweep HF (New) Banshee Tast Sweep HF (New) Banshee Fast Sweep	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz 800Hz to 970Hz swept at 1Hz 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 70nes 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 19Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz* 2450Hz 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 I sec, silence 10mS, repeat 554Hz for 100mS and 440Hz for 400mS 420Hz repeating 0.625 sec on, 0.625 sec off 950Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for I.5secs and repeat	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 14 4 4 4	94 94 94 94 94 93 94 94 93 94 102 103 103 103 104 104 95 95 95 97 99 99 99 99	6 6 6 6 6 6 6 6 6 6 6 16 17 17 17 18 18 18 17 6 5 4 4 3 6 5 5	el Lite** 100 100 100 100 100 100 100 100 100	CHL 12 12 12 12 12 12 12 13 14 13 12 12 12 35 35 35 37 36 37 36 12 10 7	84 84 84 84 84 84 84 84 84 87 90 92 90 92 95 94 87 95 94 88 88 88 88 88 88 88	8 13 14 8 13 5 5 4 4 3 5 5 4 4	91 90 90 90 90 90 90 90 90 90 90 90 90 90	13 13 13 13 13 13 14 8 14 13 30 30 30 30 31 16 28 10 10 8
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	00000 10000 11000 011000 011000 011000 011100 001100 111100 010110 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100 111100	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Back Up Alarm LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Slow Sweep HF Banshee Son Sweep HF Banshee Tast Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Banshee Fast Sweep HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal Australian Fevacuation Signal US Temporal Tone HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 1830Hz 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 5Hz Intermittent at 950Hz I sec on, I sec off Alternating 700Hz swept 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 at 3Hz Continuous 2900Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 2400/2900 at 3Hz S00hz 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 1.5secs and repeat 2900Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for I.5secs and repeat	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 14 4 4 4 4 4	94 94 94 94 93 94 94 94 94 94 102 103 103 103 104 95 90 89 95 103	6 6 6 6 6 6 6 6 6 6 6 16 17 17 19 18 18 17 6 5 5 4 3 3 6 5 5 13	100 100 100 100 100 100 100 100 100 100 100 100 100 101 100 100 101 100 100 101 100	CHL 12 12 12 12 12 12 13 13 14 13 12 12 12 35 35 35 37 36 12 10 7 6 11 10 27	84 84 84 84 84 84 84 84 84 89 90 92 99 94 87 88 87 84 88 87 95	8 13 5 4 4 3 5 5 4 4 6 6	91 90 90 90 90 90 90 90 90 90 90 90 90 90	33 13 13 13 13 13 13 14 8 14 14 30 30 30 31 16 28 10 10 8 5 10 10 10 10 10 10 10 10 10 10
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	00000 10000 01000 11000 011000 01100 011100 00010 11100 01010 11010 01110 01110 01110 01010 11010 01010 11010 01010 11010 0101	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Fast Sweep LF Banshee Fast Sweep LF Banshee Fast Sweep LF (New) Medium Sweep LF* Continuous LF Back Up Alarm LF Alternate LF Back Up Alarm LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Sanshee Fast Sweep HF (New) Back Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal US Temporal Tone LF US Temporal Tone LF US Temporal Tone HF Sweedish Tone (Fire)	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz 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 5 Secs Alternating 70nes 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 2400Hz to 3100Hz swept at 9Hz 2400Hz to 3100Hz swept at 9Hz 100Hz falling to 500Hz 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 950Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat Intermittent 660Hz 150mS on, 150mS off	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 26 4 4 4 4 4 4 7 7 7 7 8 8 8 8 8 8 8 8 8 8	Bans 94 94 94 94 94 95 96 96 97 97 98 99 99 90 90 90 90 90 90 90 90 90 90 90	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	el Lite** 100 100 100 100 100 100 100 100 100	CHL 12 12 12 12 12 12 12 12 13 14 13 12 12 13 35 35 36 37 36 12 10 7 6 11 10 27 6 9 10	85 85 84 84 84 84 84 84 84 84 84 90 92 90 94 87 95 88 87 83 88 84 84 83 88 84 83 88 84 84 84 84 84 84 84 84 84 84 84 84	anshee I 6 6 6 6 6 6 6 6 6 7 7 7 6 7 15 15 15 15 15 15 15 15 15 15 15 15 15	90 90 90 90 90 90 90 90 90 90 90 90 90 9	33S 13 13 13 13 13 13 13 14 18 14 13 14 13 30 30 30 30 30 30 16 28 10 10 10 10 10 10 10 10 10 10
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	00000 10000 01000 011000 011000 011100 00010 111100 00010 11010 001110 011110 01010 00101 10001 10001 10001 10001 10001 111001 00101 10110 00101 10110 00101	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Solm Sweep LF Banshee Past Sweep LF (New) Medium Sweep LF (New) Medium Sweep LF Back Up Alarm LF Alternate LF Medium Sweep LF Alternate LF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Fast Sweep HF Sonshee Fast Sweep HF Banshee Fast Sweep HF Sonshee Fast Sweep HF So	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 1Hz 830Hz 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 Continuous 2900Hz at 194Ez 2400Hz to 2900Hz at 3Hz Continuous 2900Hz 2450Hz to 3100Hz swept at 9Hz 1450Hz to 3100Hz swept at 9Hz 1500Hz to 1500Hz swept at 9Hz 1500Hz roses 2400/2900 at 3Hz 1500Hz falling to 500Hz over 1 sec, silence 0.5 sec 1500Hz follomS and 44Hz for 400mS 150Hz for 0.5 sec on, 0.625 sec on, 0.525 sec off 150Hz 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	4 4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 26 27 28 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	94 94 94 94 94 94 94 94 94 94 102 103 103 103 103 104 95 95 93 90 90 91	6 6 6 6 6 6 6 6 6 6 6 7 17 17 19 18 18 17 6 6 5 13 3 3 5 5	el Lite** 100 100 100 100 100 100 100 100 100 1	CHL 12 12 12 12 12 12 12 12 12 13 14 13 12 12 35 35 36 17 36 10 7 6 10 27 6	84 84 84 84 84 84 84 84 84 87 90 90 92 90 95 94 87 95 94 88 88 88 88 88 88 88 88 88 88 88 88 88	8 13 5 5 4 4 6 6 3 5 5 5 5 4 6 6 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	90 90 90 90 90 90 90 90 90 90 90 90 90 9	13 13 13 13 13 13 14 8 14 30 30 30 31 16 16 10 8 10
1 2 3 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	00000 10000 01000 11000 00100 10100 01100 00100 11100 00010 11001 01110 00011 11110 00001 11110 00001 11001 01010 01	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Solw Sweep LF Banshee Past 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 Slow Sweep HF Banshee Fast Sweep HF Sanshee Fast Sweep HF Sanshee Fast Sweep HF Sanshee Fast Sweep HF Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal Australian Favcuation Signal Us Temporal Tone LF US Temporal Tone LF US Temporal Tone LF Swedish Tone (All Clear) ISOB201 LF SOR201 LF SOR201 HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 1Hz 830Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/100Hz 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 19Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz 2450Hz to 3100Hz swept at 9Hz 1450Hz to 3900Hz at 9Hz 1500Hz to 1500Hz swept at 9Hz 1500Hz to 1500Hz swept at 9Hz 1500Hz to 1500Hz swept at 9Hz 1610Hz to 1610Hz swept at 9Hz 1750Hz to 1750Hz sec on, I sec off* 1750Hz to 1750Hz sec on, I sec off* 1750Hz for 105 sec on, 0.625 sec, silence 0.5 sec 1750Hz for 105 sec on, 0.625 sec on, 0.55 sec o	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 15 26 27 28 29 29 31	Bans 94 94 94 94 94 94 102 103 103 104 95 93 90 91 90 103 94	hee Exc 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 17 19 18 18 17 6 5 5 17 4 4 3 3 4 4 4 5 5 5 5 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7		CHL 12 12 12 12 12 12 12 12 13 14 13 12 12 12 12 12 16 17 16 17 16 17 17 18 18 19 19 10 27 10 27 10 27 10 27 11	85 84 84 84 84 84 84 84 84 84 87 90 92 92 92 94 87 88 88 84 83 84 84 84 84 84 84 84 84 84 84 84 84 84	anshee I 6 6 6 6 6 6 6 6 6 7 7 4 7 7 15 15 13 14 8 8 3 5 4 4 8 8 7 7	90 90 90 90 90 90 90 90 90 90 90 90 90 9	33S 13 13 13 13 13 13 14 8 14 13 14 13 30 30 30 30 31 16 28 10 10 8 10 10 10 10 10 10 10 10 10 10
1 2 3 4 5 5 6 7 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	00000 10000 01000 11000 00100 10100 01100 00100 11100 00010 11010 01010 11010 00011 11001 00001 11001 01010 01	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Continuous LF Banshee Fast Sweep LF (New) Medium Sweep LF* Back Up Alarm LF Alternate LF Back Up Alarm LF Alternate LF Barshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Buzz HF Banshee Fast Sweep HF Banshee Slow Sweep HF Banshee Continuous HF Banshee Continuous HF Sanshee Tast Sweep HF Sum Shanshee Tast Sweep HF Swedish Tone (LS) Swedish Tone (All Clear) ISO8201 LF ISO8201 HF BT Banshee (FP1063.1)	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 3Hz Continuous at 950Hz 830Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz swept at 5Hz Bo0Hz to 1000Hz swept at 5Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/1000Hz at 1Hz 800Hz to 1000Hz swept at 5.5 sec Alternating Tones 800/950 at 3Hz 2400Hz to 2900Hz at 120Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz at 3Hz Continuous 2900Hz at 9Hz 100Hz to 2900Hz at 3Hz Continuous 2900Hz swept at 9Hz Intermittent at 2900Hz I sec on, I sec off* Alternating Tones 2400/2900 at 3Hz S00Hz 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 swepping, 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 Intermittent 660Hz 150mS on, 150mS off Continuous 660Hz Intermittent 970Hz 500mS on, 500mS off* Yodel 800Hz/1000Hz, 0.25sec each frequency Continuous 1000Hz	4 4 4 4 4 4 7 7 7 4 4 4 4 4 4 4 4 4 4 4	94 94 94 94 93 94 93 94 94 102 103 103 103 104 109 95 93 90 91 103 90 90 91	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		CHL 12 12 12 12 12 12 12 12 12 12 13 14 13 12 12 12 35 35 39 36 37 36 12 10 7 6 12 10 7 6 12 10 27 11 11	85 85 84 84 84 84 84 84 84 84 89 90 90 94 87 95 94 88 88 87 88 88 88 88 88 88 88 88 88 88	anshee I 6 6 6 6 6 6 6 6 6 7 7 4 7 7 15 13 13 14 8 13 5 5 4 4 3 3 5 5 4 4 8 8 7 7 8	90 90 90 90 90 90 90 90 90 90 90 90 90 9	13 13 13 13 13 13 14 8 14 13 30 30 30 30 31 16 28 10 10 8 13 6
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	00000 10000 11000 01100 00100 11100 00100 11100 00110 11010 01101 011110 011110 011110 01101 111100 01001 11101 11101 00101 11101	Banshee Buzz LF Banshee Fast Sweep LF* Banshee Slow Sweep LF Banshee Solw Sweep LF Banshee Past 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 Slow Sweep HF Banshee Fast Sweep HF Sanshee Fast Sweep HF Sanshee Fast Sweep HF Sanshee Fast Sweep HF Up Alarm HF Alternate HF Slow Whoop* Din Tone (DK)* French Fire Sound* Australian Alert Signal Australian Favcuation Signal Us Temporal Tone LF US Temporal Tone LF US Temporal Tone LF Swedish Tone (All Clear) ISOB201 LF SOR201 LF SOR201 HF	800Hz to 950Hz swept at 120Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 9Hz 800Hz to 950Hz swept at 3Hz Continuous at 900Hz 830Hz to 970Hz swept at 1Hz 830Hz to 970Hz swept at 1Hz Continuous at 950Hz Intermittent at 950Hz I sec on, I sec off Alternating 800Hz/100Hz 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 19Hz 2400Hz to 2900Hz at 3Hz Continuous 2900Hz 2450Hz to 3100Hz swept at 9Hz 1450Hz to 3900Hz at 9Hz 1500Hz to 1500Hz swept at 9Hz 1500Hz to 1500Hz swept at 9Hz 1500Hz to 1500Hz swept at 9Hz 1610Hz to 1610Hz swept at 9Hz 1750Hz to 1750Hz sec on, I sec off* 1750Hz to 1750Hz sec on, I sec off* 1750Hz for 105 sec on, 0.625 sec, silence 0.5 sec 1750Hz for 105 sec on, 0.625 sec on, 0.55 sec o	4 4 4 4 4 7 7 7 4 4 4 4 15 15 15 15 15 15 15 15 15 26 27 28 29 29 31	Bans 94 94 94 94 94 94 102 103 103 104 95 93 90 91 90 103 94	hee Exc 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 17 19 18 18 17 6 5 5 17 4 4 3 3 4 4 4 5 5 5 5 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7		CHL 12 12 12 12 12 12 12 12 13 14 13 12 12 12 12 12 16 17 16 17 17 18 18 19 19 10 27 10 27 10 27 10 27 11	85 84 84 84 84 84 84 84 84 84 87 90 92 92 92 94 87 88 88 84 83 84 84 84 84 84 84 84 84 84 84 84 84 84	anshee I 6 6 6 6 6 6 6 6 6 7 7 4 7 7 15 15 13 14 8 8 3 5 4 4 8 8 7 7	90 90 90 90 90 90 90 90 90 90 90 90 90 9	33S 13 13 13 13 13 13 13 14 8 14 13 30 30 30 30 30 30 16 28 8 10 8 10 10 10 10 10 10 10 10 10 10

Notes

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



Assessed to ISO 9001



