



# TECHNICAL DATA SHEET

SANA PASSIVE HELMET  
MOUNTED HEARING  
PROTECTION RANGE



# SANA HELMET MOUNTED EAR DEFENDERS

The new Centurion Sana Ear Defenders offer a wide range of attenuation levels, from 25dB to 34dB, to suit the majority of industrial environments, providing protection against light industry noise through to extremely high noise levels. The Sana range was developed to provide superior performance and enhanced comfort and fit as well as being fully compatible with Centurion's safety helmets and face protection.

## FEATURES AND BENEFITS

- Stylish cup design in matt Black with gloss features
- Colour coded ring and front printing for easy identification and selection of the correct attenuation level
- Easy to adjust steel arms for quick personalised fit
- Compatible with the full range of Centurion safety helmets and face protection
- Soft wide cushions for maximum comfort
- Approved to EN 352-3 and ANSI S3.19
- The Sana ear defender range is also available as headband mounted versions



Sana 25

## MARKETS

- Construction and Buildings. Civil Engineering.
- Utilities Maintenance, Sustainable Energy Oil, Gas and Mining
- Logistics and Transportation,
- Automotive and Aerospace
- Engineering
- Chemicals, Pharmaceutical
- FMCG, Food and Drink, Pulp + Paper, Packaging, Recycling, Agriculture
- Petroleum



Sana 30



Sana 34

## SPECIFICATION

Product	Product code	Colour	To fit clip types	To fit helmet types	Weight
Sana 25 Helmet	9943634	Black with Green ring	Euro, Connect and Contour clips	All Centurion helmets	243g
Sana 30 Helmet	9943638	Black with Yellow ring			246g
Sana 34 Helmet	9943639	Black with Red ring			365g

## MATERIALS

Cup	ABS (Acrylonitrile-Butadiene-Styrene)
Foam	PU (Polyurethane)
Cushion	PU (Polyurethane)
Arms	Steel
Adaptor	PA (Polyamide / Nylon)
Clips	PA (Polyamide / Nylon)

**ATTENUATION DATA TESTED ACCORDING TO EN352-3:2020**

**SANA 25**

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	9.3	16.4	22.5	33.9	36.4	37.5	35.3	25 dB
Standard Deviation (dB)	3.2	3.5	2.5	3.5	2.9	3.2	4.5	
Assumed Protection Value (dB)	6.1	12.9	20.0	30.3	33.5	34.3	30.7	

$SNR_m = 27.6$        $H = 33dB$        $H_m = 35.2$        $H_s = 2.3$   
 $SNR_s = 2.4$        $M = 23dB$        $M_m = 25.2$        $M_s = 2.4$   
 $SNR (dB) = 25.0$        $L = 14dB$        $L_m = 16.8$        $L_s = 2.9$

**SANA 30**

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	17.1	19.9	27.5	39.5	38.4	37.5	39.4	30 dB
Standard Deviation (dB)	3.3	2.5	3.2	2.4	3.1	3.5	3.6	
Assumed Protection Value (dB)	13.8	17.4	24.3	37.2	35.3	34	35.9	

$SNR_m = 32.3$        $H = 36dB$        $H_m = 37.8$        $H_s = 2.0$   
 $SNR_s = 2.0$        $M = 28dB$        $M_m = 30.0$        $M_s = 2.1$   
 $SNR (dB) = 30.0$        $L = 20dB$        $L_m = 22.5$        $L_s = 2.3$

**SANA 34**

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	22.3	24.4	33.6	41.5	37.1	38.9	39.2	34 dB
Standard Deviation (dB)	3.0	2.5	3.1	3.6	3.1	2.8	3.4	
Assumed Protection Value (dB)	19.3	21.9	30.5	37.9	33.9	36.1	35.8	

$SNR_m = 35.9$        $H = 36dB$        $H_m = 38.1$        $H_s = 2.3$   
 $SNR_s = 1.7$        $M = 32dB$        $M_m = 34.3$        $M_s = 2.0$   
 $SNR (dB) = 34.0$        $L = 25dB$        $L_m = 27.4$        $L_s = 2.4$

**ATTENUATION DATA TESTED ACCORDING TO ANSI S3.19-1974**

**SANA 25**

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	12.1	14.9	22.7	35.3	36.6	37.3	37.7	36.3	36.0	19dB
Standard Deviation (dB)	3.1	2.9	2.3	3.2	3.1	3.6	2.6	4.1	4.4	

**SANA 30**

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	16.5	18.8	28.5	40.1	38.5	41.5	39.1	39.4	38.9	24dB
Standard Deviation (dB)	3.2	2.3	2.9	3.3	3.3	4.4	3.9	4.9	4.4	

**SANA 34**

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	20.8	23.2	33.5	41.4	38.5	41.0	41.4	40.1	39.7	28dB
Standard Deviation (dB)	3.1	2.1	2.6	3.5	2.8	2.8	3.1	3.6	4.8	

## Care and Maintenance

### Storage

Can be stored and transported in their original cartons at ambient temperature (-20°C to +55°C).  
May be stored in the dark for up to 5 years.  
Do not store in direct/high heat or sunlight as this may distort the shell.

### Lifetime:

The Centurion ear defenders have an in-use life of up to 5 years.  
Excessive wear and tear can considerably reduce the lifespan of the product.

### Cleaning:

Clean using warm soapy water and soft cloth.

### Maintenance:

Check before use that all parts are undamaged. Ear Defenders and in particular cushions may deteriorate with use and should be examined at regular intervals for cracking and leakage. Hygiene kits with replaceable cushions and foam pieces are available from Centurion.

### Disposal:

Recycling is preferred when possible. Look out for the recycling symbol for material category.

## Accessories - Hygiene Kits

Product	Product code	Content
Sana 25	9946467	2 x cushions and 2 x foam pieces for a pair of ear defenders
Sana 30	9946468	
Sana 34	9946469	

## Packaging

Product	Individual box dimensions	Individual box weight including pair of ear defenders	Outer box dimensions	Outer box weight including 10 pairs of ear defenders
Sana 25	10.5 x 11 x 15cm	0.35kg	57 x 22.5 x 16.5cm	4.0kg
Sana 30	12 x 11 x 16.5cm	0.35kg	57 x 26 x 18cm	4.0kg
Sana 34	16 x 11 x 16.5cm	0.47kg	57 x 33.5 x 18cm	5.3kg

## Product Codes and Bar Codes

Product code	Description	Case bar code	Unit bar code
9943634	Sana 25 Helmet Mounted Ear Defenders	05056375417559	05056375417566
9943638	Sana 30 Helmet Mounted Ear Defenders	05056375417573	05056375417580
9943639	Sana 34 Helmet Mounted Ear Defenders	05056375417597	05056375417603



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