

EU Type Examination Certificate

This is to certify that:

3M United Kingdom Plc
3M Centre
Cain Road
Bracknell
Berkshire
RG12 8HT
United Kingdom

Holds Certificate Number:

CE 706317

In respect of:

**Personal hearing protection to EN 352-2:2002 -
Ear-plugs
Model: 3M™ E-A-R™ Classic Range**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified
Body for the above Regulation
(Notified Body Number 0086):


Chris Lewis - Certification Director, Product Certification

First Issued: 2019-04-04

Latest Issue: 2019-04-04

Effective Date: 2019-04-04

Expiry Date: 2024-04-04

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No. CE 706317

Product Specification

Product Name: 3M™ Disposable Earplugs.

Product Type: Hearing protectors – ear-plugs.

Model: (standard industrial products)
E-A-R™ Classic™ (corded and uncorded)
E-A-R™ Classic™ II (corded and uncorded)
E-A-R™ Classic™ Small (uncorded)
E-A-R™ Classic™ Superfit 33 (uncorded)
E-A-R™ Classic™ Superfit 36 (uncorded)
E-A-R™ Classic™ Soft (corded and uncorded).

Technical Specification: Harmonized European Standard: EN 352-2:2002.

Product Description: The Ear-plugs have been designed to be inserted into the ear canal. The earplugs are disposable and as detailed above some models are available as uncorded and some as uncorded and corded products.

EN 352-2 classifications: Disposable.
(all models)

Product Assessment

The product assessments were based on BS EN 352-2:2002, the English language version of EN 352-2:2002, hearing protectors – ear-plugs.

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Attenuation values for Classic and Classic II (uncorded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Mf (dB) | 22.3 | 23.3 | 24.6 | 26.9 | 27.4 | 34.1 | 41.6 | 40.4 |
| Standard Deviation Sf (dB) | 5.4 | 5.3 | 3.6 | 5.4 | 4.8 | 3.1 | 3.5 | 6.4 |
| Assumed Protection Value APVf (dB) (APVf = Mf-Sf) | 16.9 | 18.0 | 21.0 | 21.5 | 22.6 | 31.0 | 38.1 | 34.0 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 30 dB |
| Medium Frequency Attenuation Value (M) | 24 dB |
| Low Frequency Attenuation Value (L) | 22 dB |
| Single Number Rating (SNR) | 28 dB |

Sizing

Nominal Diameter: Smallest – 5mm Largest – 13mm.

Attenuation values for Classic and Classic II (corded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Mf (dB) | 21.7 | 23.7 | 26.1 | 30.4 | 30.1 | 33.8 | 42.6 | 42.1 |
| Standard Deviation Sf (dB) | 6.3 | 5.6 | 5.2 | 5.7 | 5.3 | 4.6 | 4.0 | 5.7 |
| Assumed Protection Value APVf (dB) (APVf = Mf-Sf) | 15.4 | 18.1 | 20.9 | 24.7 | 24.8 | 29.2 | 38.6 | 36.4 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 30 dB |
| Medium Frequency Attenuation Value (M) | 26 dB |
| Low Frequency Attenuation Value (L) | 23 dB |
| Single Number Rating (SNR) | 29 dB |

Sizing

Nominal Diameter: Smallest – 5mm Largest – 13mm.

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Attenuation values for Classic Small (uncorded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Mf (dB) | 21.3 | 25.8 | 27.6 | 30.8 | 31.1 | 35.6 | 41.9 | 42.9 |
| Standard Deviation Sf (dB) | 10.4 | 7.9 | 8.8 | 8.6 | 6.7 | 4.2 | 4.9 | 6.2 |
| Assumed Protection Value APVf (dB) (APVf = Mf-Sf) | 10.9 | 17.9 | 18.8 | 22.2 | 24.4 | 31.4 | 37.0 | 36.7 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 31 dB |
| Medium Frequency Attenuation Value (M) | 25 dB |
| Low Frequency Attenuation Value (L) | 21 dB |
| Single Number Rating (SNR) | 28 dB |

Sizing

Nominal Diameter: Smallest – 5mm Largest – 11mm.

Attenuation values for Classic Superfit 33 (uncorded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Mf (dB) | 24.9 | 27.5 | 31.2 | 33.9 | 34.5 | 37.5 | 43.3 | 45.0 |
| Standard Deviation Sf (dB) | 7.2 | 6.9 | 6.9 | 7.0 | 6.0 | 3.3 | 3.3 | 4.8 |
| Assumed Protection Value APVf (dB) (APVf = Mf-Sf) | 17.7 | 20.6 | 24.3 | 26.9 | 28.5 | 34.2 | 40.0 | 40.2 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 35 dB |
| Medium Frequency Attenuation Value (M) | 29 dB |
| Low Frequency Attenuation Value (L) | 26 dB |
| Single Number Rating (SNR) | 33 dB |

Sizing

Nominal Diameter: Smallest – 5mm Largest – 12mm.

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Attenuation values for Classic Superfit 36 (uncorded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation M _f (dB) | 29.1 | 32.4 | 36.0 | 38.0 | 38.9 | 39.1 | 43.1 | 44.6 |
| Standard Deviation S _f (dB) | 6.2 | 7.3 | 7.3 | 6.8 | 6.7 | 3.1 | 6.1 | 6.3 |
| Assumed Protection Value APV _f (dB) (APV _f = M _f -S _f) | 22.9 | 25.1 | 28.7 | 31.2 | 32.2 | 36 | 37.0 | 38.3 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 36 dB |
| Medium Frequency Attenuation Value (M) | 33 dB |
| Low Frequency Attenuation Value (L) | 30 dB |
| Single Number Rating (SNR) | 36 dB |

Sizing

Nominal Diameter: Smallest – 5mm Largest – 13mm.

Attenuation values for Classic Soft (corded)

| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation M _f (dB) | 31.8 | 33.9 | 35.9 | 36.6 | 36.8 | 37.1 | 43.4 | 44.7 |
| Standard Deviation S _f (dB) | 4.6 | 5.3 | 5.0 | 4.2 | 4.6 | 3.7 | 4.2 | 5.7 |
| Assumed Protection Value APV _f (dB) (APV _f = M _f -S _f) | 27.2 | 28.6 | 30.9 | 32.4 | 32.2 | 33.4 | 39.2 | 39.0 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 35 dB |
| Medium Frequency Attenuation Value (M) | 33 dB |
| Low Frequency Attenuation Value (L) | 32 dB |
| Single Number Rating (SNR) | 36 dB |

Sizing

Nominal Diameter: Smallest – 9mm Largest – 12mm.

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Attenuation values for Classic Soft (uncorded)

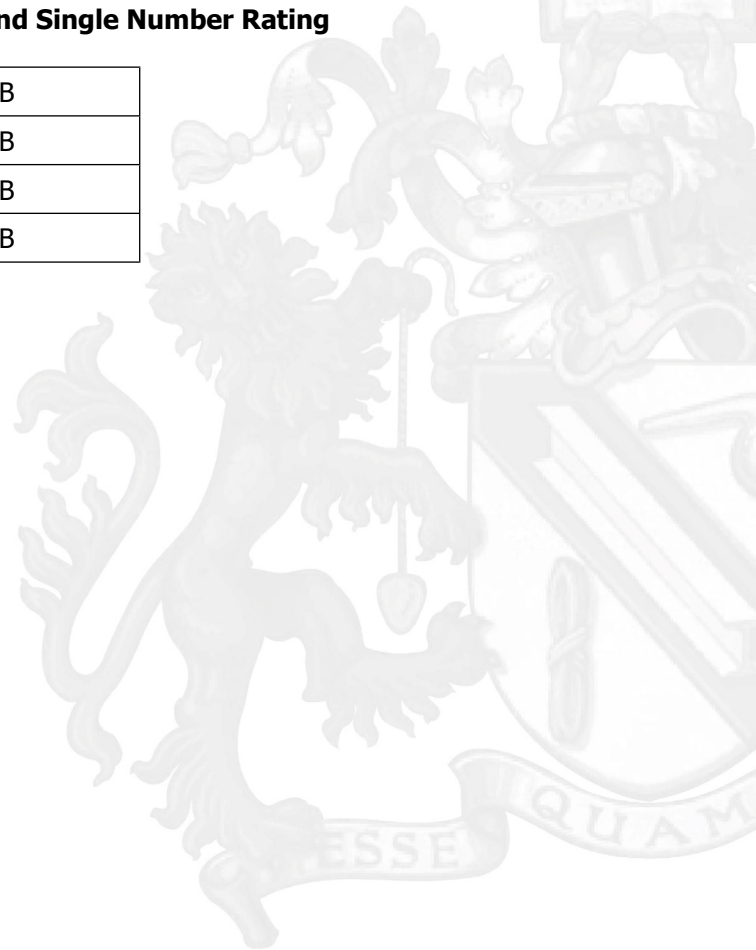
| Test Frequency f (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|--|------|------|------|------|------|------|------|------|
| Mean Attenuation Mf (dB) | 28.2 | 30.6 | 32.8 | 35.9 | 36.0 | 38.5 | 43.8 | 43.1 |
| Standard Deviation Sf (dB) | 6.7 | 6.4 | 5.4 | 4.2 | 3.7 | 3.2 | 3.8 | 3.8 |
| Assumed Protection Value APVf (dB) (APVf = Mf-Sf) | 21.5 | 24.2 | 27.4 | 31.7 | 32.3 | 35.3 | 40.0 | 39.3 |

High, Medium and Low Frequency Attenuation Values and Single Number Rating

| | |
|--|-------|
| High Frequency Attenuation Value (H) | 36 dB |
| Medium Frequency Attenuation Value (M) | 33 dB |
| Low Frequency Attenuation Value (L) | 29 dB |
| Single Number Rating (SNR) | 36 dB |

Sizing

Nominal Diameter: Smallest – 9mm Largest – 12mm.



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Packaged variants

In addition to the products referenced on this Certificate the standard industrial products may also be sold as market specific packaged variants. Such variants will be differentiated and the Technical File(s) will be updated with the appropriate information.

Kits and packouts

The products referenced on this Certificate may also be combined with other 3M products into a kit or packout. There will be no change to the product but the User Information may vary, in such instances the applicable Technical File(s) will be updated with the appropriate information.

Certificate Administration Details

Technical File Reference:

| Item | Technical File |
|----------------------------|----------------|
| 3M Classic Range Earplugs. | TF0537 |

Certificate Amendment Record:

| Issue date | Comments | BSI Review No. |
|------------|---|-----------------|
| April 2019 | First issue under PPE Regulation (EU) 2016/425. | 0086:19:9716226 |

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type Based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 595701.

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