





This is to certify that: 3M United Kingdom Plc

3M Centre Cain Road Bracknell **RG12 8HT** United Kingdom

Holds Certificate Number: CE 773234

In respect of:

Personal hearing protection to EN 352-2:2020 - Earplugs Models: E-A-Rcaps™, 1310, E-A-R™ Caboflex™

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 2797):

Drs. Dave Hagenaars, Managing Director

First Issued: 2022-10-14 Latest Issue: 2022-10-14 Effective Date: 2022-10-14 Expiry Date: 2027-10-13

Page: 1 of 6



No. CE 773234

Product Specification

Product Name: 3M[™] Banded Earplugs

Product Type: Hearing Protectors – Earplugs

Model: E-A-Rcaps™

1310

E-A-R™ Caboflex™

Technical Specification: Harmonized European Standard EN 352-2:2020

Product Description: The E-A-Rcaps and 1310 are fitted with semi-aural eartips designed to seal

the entrance part of the ear canal to protect against hazardous noise and loud sounds. The Caboflex are fitted with tapered eartips designed for

insertion into the ear canal. All eartips are replaceable.

EN 352-2 Classifications:

E-A-Rcaps	Reusable band with	Under-the-chin (U-T-C)
	disposable eartips	
1310	Reusable band with	Behind-the-head (B-T-H)
	disposable eartips	Under-the-chin (U-T-C)
E-A-R Caboflex	Reusable band with	Behind-the-head (B-T-H)
	reusable eartips	Under-the-chin (U-T-C)

First Issued: 2022-10-14 Effective Date: 2022-10-14 Latest Issue: 2022-10-14 Expiry Date: 2027-10-13

Page: 2 of 6

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

No. CE 773234

Model: E-A-Rcaps

Attenuation values for under-the-chin wearing mode:

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	20.6	19.4	19.2	18.4	21.2	29.9	37.7	39.3
Standard Deviation SD (dB)	3.2	4.6	1.9	2.2	2.3	4.0	4.9	3.5
Assumed Protection Value APV_f (dB) (APV _f = MV-SD)	17.4	14.8	17.3	16.2	18.9	25.9	32.8	35.8

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

riigii, ricaiaiii ana Low i requeile, Accentaction		, J	
Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	28.3	2.2	26
Medium Frequency Attenuation Value (M)	21.5	1.7	20
Low Frequency Attenuation Value (L)	19.7	1.5	18
Single Number Rating (SNR)	25.0	1.5	24

Sizing

Under-the-chin head size range: S/M/L

Mass: 8 grams

First Issued: 2022-10-14 Effective Date: 2022-10-14 Latest Issue: 2022-10-14 Expiry Date: 2027-10-13

Page: 3 of 6

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

No. CE 773234

Model: 1310

Attenuation Values for behind-the-head wearing mode:

Accellance Laines for Bellina the field								
Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	25.2	23.7	19.9	19.8	23.3	31.9	39.0	37.9
Standard Deviation SD (dB)	5.4	4.6	3.4	3.4	2.9	2.5	3.7	3.8
Assumed Protection Value APV_f (dB) (APV _f = MV-SD)	19.8	19.1	16.5	16.4	20.4	29.4	35.3	34.1

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

riigii, ricaiaiii ana Low i requeile, Accentaction		, J	
Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	30.3	2.1	28
Medium Frequency Attenuation Value (M)	23.2	2.7	21
Low Frequency Attenuation Value (L)	21.2	2.9	18
Single Number Rating (SNR)	26.7	2.5	24

Attenuation values for under-the-chin wearing mode:

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	26.1	26.0	21.2	18.5	22.9	32.3	39.2	38.4
Standard Deviation SD (dB)	3.4	4.3	3.3	2.1	2.1	3.8	4.2	3.7
Assumed Protection Value APV_f (dB) (APV _f = MV-SD)	22.7	21.7	17.9	16.4	20.8	28.5	35.0	34.7

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	30.0	1.8	28
Medium Frequency Attenuation Value (M)	22.6	1.8	21
Low Frequency Attenuation Value (L)	21.2	2.0	19
Single Number Rating (SNR)	26.2	1.7	25

Sizing

Behind-the head and under-the-chin head size range: S/M/L

Mass: 13 grams

First Issued: 2022-10-14 Effective Date: 2022-10-14 Latest Issue: 2022-10-14 Expiry Date: 2027-10-13

Page: 4 of 6

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

No. CE 773234

Model: Caboflex

Attenuation Values for behind-the-head wearing mode:

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	22.0	20.6	21.3	23.6	24.9	27.1	33.3	36.3
Standard Deviation SD (dB)	8.7	8.8	8.7	7.2	5.1	5.9	4.2	7.7
Assumed Protection Value APV_f (dB) (APV _f = MV-SD)	13.3	11.8	12.6	16.4	19.8	21.2	29.1	28.6

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	27.9	5.0	23
Medium Frequency Attenuation Value (M)	24.3	5.8	19
Low Frequency Attenuation Value (L)	22.0	7.3	15
Single Number Rating (SNR)	26.7	5.6	21

Attenuation values for under-the-chin wearing mode:

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Value MV (dB)	22.3	22.3	21.8	23.4	25.6	27.3	32.8	35.1
Standard Deviation SD (dB)	7.9	8.3	7.7	7.2	4.9	4.7	5.3	5.9
Assumed Protection Value APV_f (dB) (APV _f = MV-SD)	14.4	14.0	14.1	16.2	20.7	22.6	27.5	29.2

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

Value	MV (dB)	SD (dB)	APV (dB)
High Frequency Attenuation Value (H)	28.3	4.5	24
Medium Frequency Attenuation Value (M)	24.9	5.4	20
Low Frequency Attenuation Value (L)	22.9	6.6	16
Single Number Rating (SNR)	27.2	5.2	22

Sizing

Nominal Diameter: Smallest – 7 mm Largest – 14 mm **Behind-the head and under-the-chin head size range:** S/M/L

Mass: 12 grams

First Issued: 2022-10-14 Effective Date: 2022-10-14 Latest Issue: 2022-10-14 Expiry Date: 2027-10-13

Page: 5 of 6

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.

No. CE 773234

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 References:

Item	Technical File
3M™ Banded Earplugs	TF0693

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
October 2022	First issue.	2797:22:3701456

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.

First Issued: 2022-10-14 Effective Date: 2022-10-14 Latest Issue: 2022-10-14 Expiry Date: 2027-10-13

Page: 6 of 6

This certificate has been issued by and remains the property of BSI Group The Netherlands B.V., John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands and should be returned immediately upon request.