PERISTEGRAF srl
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EU DECLARATION OF CONFORMITY

PERISTEGRAF S.R.L.- VIA GIACOMO PERONI,150 - 00131 ROMA - ITALY - TEL. 06-96035140.

FAX. 06-96036338 P.IVA 01768221002

Declare under our sole responsability, that the product below:

Description of the product: **no-valve FFP2 Foldable Respirator/Half Face/Non-Reusable**

Brand name: **BSB_PVR _FFP2 NR**

Model name: **BSB_PVR _FFP2 NR**

Meets the following European regulation:

- 2016/425 (UE) Regulation

CE

Applicable harmonized standard:

- EN 149:2001+A1:2009

The notified body **GEPTESZT KFT. (No. 2233)**
1037 Budapest, Jablonka u. 79
Hungary

Performed the EU type-examination (Module B) and iussed the EU type-examination certificate:
No. VD35/167/2011/E/2233

The PPE is subject to the following conformity assesment procedure:

◊ *Conformity to tape based on internal production control plus supervised product checks at random intervals (Module C2) under surveillance of the notified body:* **GEPTESZT KFT. (No.2233)**

Rome, 22/10/2020

Signed for and on behailf of Peristegraf srl
Antonio Boccia

Peristegraf srl
Via Giacomo Peroni 130 - 00131 Roma
Tel. 06 96035140 - Fax 06 96036338
P.iva 01768221002 - c.f. 07404600582

GÉPTESZT Nº.: TD11/GT167/193/2011/E/2233

EU TYPE-EXAMINATION CERTIFICATE

Name of Certification Body:	**GÉPTESZT Kft.**	Phone:	**+3612503531**
EU notified body identification number:	**2233**	Fax:	**+3614300888**
Address:	**Jablonka St. 79, 1037 Budapest, HUNGARY**	E-mail:	**gepteszt@gepteszt.hu**

Present EU type-examination certificate is valid only with the sealed identification sample (authentic sample) and the documents identified below. The EU type-examination certificate is not transferable.

1. Product designation: **Particle filtering half mask**
   BSB_PVR_FFP2 *non reusable particle filtering half mask without valves.*
   Serial / Model No.: BSB_PVR_FFP2
   Year of production: 2020
2. Name and address of the holder of the certificate (Manufacturer or authorized representative):
   PERISTEGRAF SRL
   Address: Via Giacomo Peroni, 150 – 00131 Roma (RM) (Italy)
3. Name and address of the Manufacturer: same as above (point 2)
4. Protecting ability of PPE: Personal protective equipment providing respiratory system protection.
   Category III. **EN 149:2001+A1:2009 class FFP2 NR**
5. Identification data of the records of examination for compliance of PPE:
   a. Certification Body: *GÉPTESZT Kft.*
      Record of examination: *VD35/167/2011/E/2233*
   b. Identification of body: *NB2233*
6. Documentation of the compliance with the essential health and safety protection requirements:
   Fully applied nationalized standard(s) during the production of the PPE:
   Category III. EN 149:2001+A1:2009 class FFP2 NR

   Annexes:
   - Users information
   - Technical file
7. CE Requirements for indicating the CE mark: The size of the CE marking may not be less than 5 mm. The CE mark must be located on the product label
8. Further notes relating to the PPE: Manufacturer cannot place on the market or bring into service any Category III PPE without having established a formal agreement with a Notified Body about conformity to type assessment.

The EU type-examination certificate will be withdrawn in case of existence of conditions stated in Article 32 point 5. and in Annex V. 7.7. of regulation (EU) 2016/425 of the European Parliament of the Council.

Legal remedy can be applied against the condition stated in the EU type-examination Certificate. The application for appeal should be submitted to the Director Manager of GÉPTESZT Kft., and the application will be judged by the board of GÉPTESZT Kft. Certificate Body.

The type tested complies with the regulation (EU) 2016/425 of the European Parliament of the Council.

The present certificate is valid until 20th November, 2025

Budapest, 20th November, 2020– HUNGARY

GÉPTESZT Kft.
EVE Tanusító Szervezet
NB 2233
1037 Budapest, Jablonka u.79.

.....
Budai István
Head of Certification Body

GÉPTESZT Kft.

Notified Body No. 2233 registered in the European Union

Address: Jablonka St. 79., Budapest, 1037, HUNGARY
e-mail: nb2233@gepteszt.hu
web: www.gepteszt.hu
Phone: +3612503531

PERSONAL PROTECTIVE EQUIPMENT
EU TYPE-XAMINATION
TEST REPORT

EN 149:2001+A1:2009
Particle filtering half mask

The examination and testing of Personal Protective Equipment were carried out in accordance with **MSZ EN ISO/IEC 17025:2005** standard
by GÉPTESZT Kft. Notified Body, identified under number 2233 in the EU

Customer:	**PERISTEGRAF SRL** Address: Via Giacomo Peroni, 150 – 00131 Roma (RM) (Italy)
Model:	**BSB_PVR_FFP2**
Classification:	**FFP2 NR**
Exhalation valve:	**NO**
Inhalation valve:	**NO**
Uses:	**non reusable**
Project number:	**GT167**
Test report number:	**VD35/167/2011/E/2233**
Project worksheet number:	**VD-34-2020-167**
Date of the test:	**2020.11.16-11.19.**
Samples received date:	**2020.11.16.**
Sample numbers:	**167-1 - 167-45**
Attachment:	**no**

GÉPTESZT KFT.
EVE Vizsgáló Laboratórium
NB 2233
1037 Budapest, Jablonka u. 79.
Labor: 1032 Budapest, Gyenes u.12.

Issued: **Budapest, 2020.11.19.**

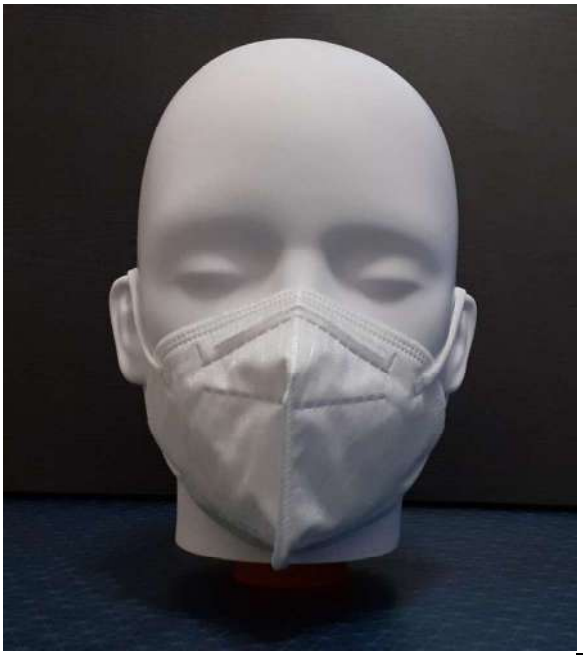
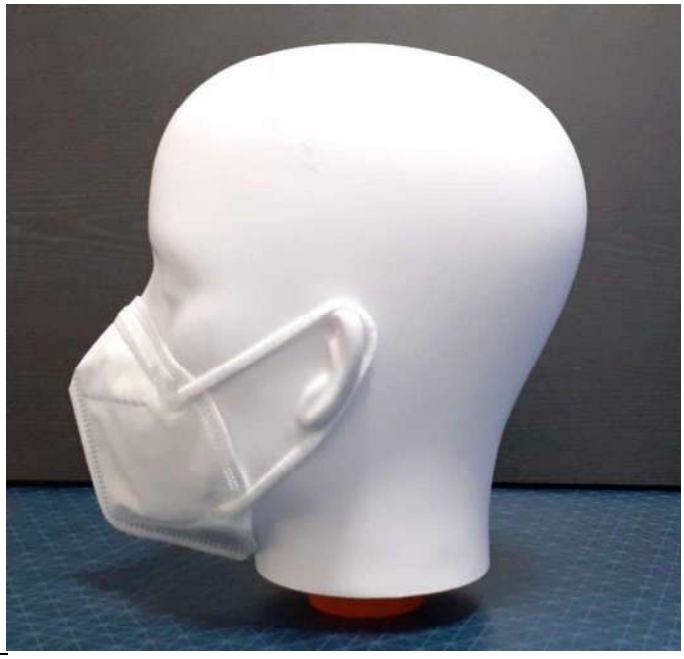
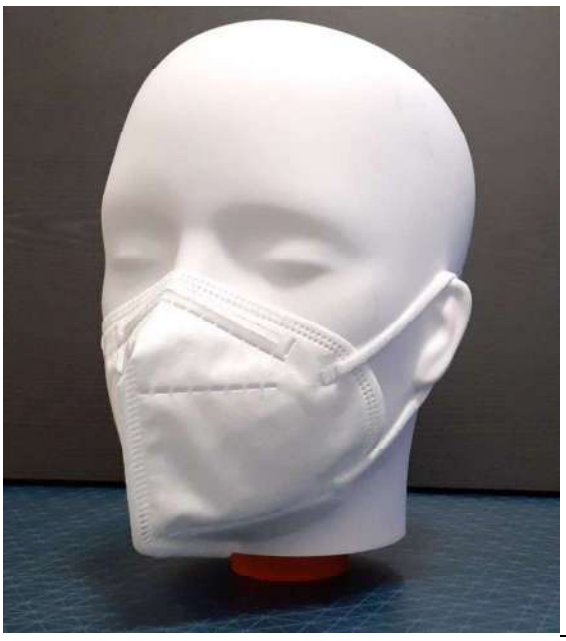
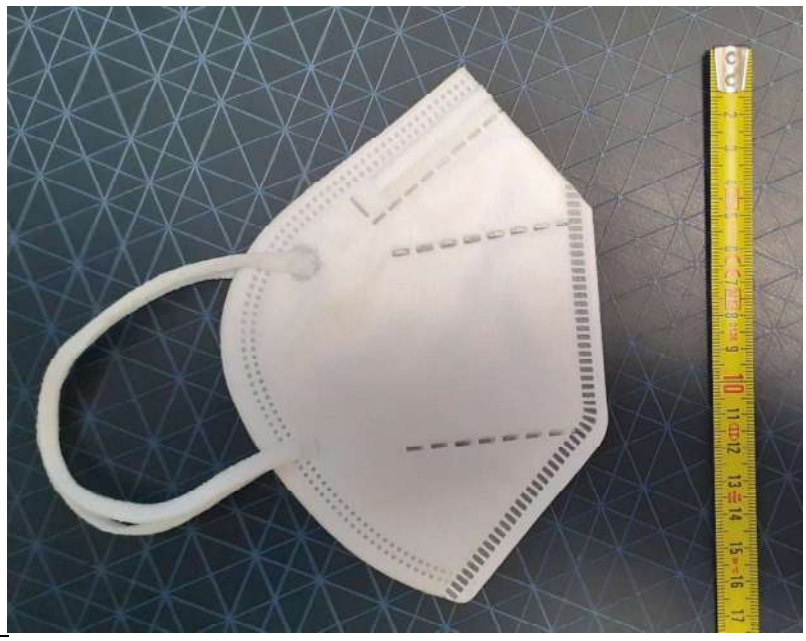
Budai Dániel
Director of Laboratory

Relevant standards, directives and requirements:
EN 149:2001+A1:2009 Filtering half masks to protect against particles

Description of the sample
The foldable mask is sold in white colour and consists of 5 layers:

1. Layer 1: (external: Spunbonded no-woven fabric
2. Layer 2: Spunbonded Nonwoven fabric.
3. Layer 3: Melt Blown non-woven fabric
4. Layer 4: Melt Blown (2nd) filter.
5. Layer 5 (internal): Spunbonded "

The elastic earloops are made of spandex. The nose bar is made of PE, PP, Galvanized Wire.

Short description of EU-type tests:

Requirement	Test method	Description	Result
7.4	8.2	Packaging	Passed
7.5	8.2	Material	Passed
7.6	8.11	Cleaning and disinfecting	NA
7.7	8.4	Practical performance	Passed
7.8	8.2	Finish of parts	Passed
7.9.1	8.5	Total inward leakage	Passed
7.9.2	8.11	Penetration of filter material: NaCl	Passed
7.9.2	8.11	Penetration of filter material: paraffin oil	Passed
7.10	8.4 and 8.5	Compatibility with skin	Passed
7.11	8.6	Flammability	Passed
7.12	8.7	Carbon dioxide content of the inhalation air	Passed
7.13	8.4 and 8.5	Head harness	Passed
7.14	8.4	Field of vision	Passed
7.15	8.2, 8.3.4, 8.8	Exhalation valve(s)	NA
7.16	8.9	Breathing resistance	Passed
7.17	8.10	Clogging	NA
7.18	8.2	Demountable parts	NA
9	-	Marking	Passed
10	-	Information to be supplied by the manufacturer	Passed

Analysis and details of EU-type test results:

7.4 Packaging
Each mask is packed in a transparent printed polypropylene bag, and 20 pieces of masks are packed in a paper box. It gives enough protection against mechanical damage or contamination.

PASSED

7.5 Material

- conditioning S.W.: Sample nr: 167-25 to 167-27
  None of the particle filtering half masks have suffered mechanical failure of the facepiece or straps.
- conditioning T.C.: Sample nr.: 167-8 to 167-10
  Particle filtering half masks did not collapse.

PASSED

7.6 Cleaning and disinfecting (only for reusable masks)
Because the mask is non-reusable, this test was not carried out.

NA

7.7 Practical performance
The particle filtering half masks are tested by practical performance tests under realistic conditions.

1. Walking test for 10 min
2. Work simulation tests:
   - walking on the level with headroom of (1,3 ± 0,2) m for 5 min;
   - crawling on the level with headroom of (0,70 ± 0,05) m for 5 min;
   - filling a small basket 20x in 10 min;

Subjects	Samples	Conditioning	Result
BA	167-1	A.R.	PASSED
DF	167-2	A.R.	PASSED

There were not any imperfections related to the wearer's acceptance.

PASSED

7.8 Finish of parts

Parts of the device are likely to come into contact with the wearer have no sharp edges or burrs.

PASSED

7.9.1 Total inward leakage

With sodium chloride aerosol. The masks were in good condition.

Number of subjects were replaced, because of not fitting/facial dimensions: ……0…….

Subjects facial dimensions				
Subject	**Face length, mm**	**Face width, mm**	**Face depth, mm**	**Mouth width, mm**
LA	123	140	105	60
RE	115	138	112	48
BD	120	130	135	55
MD	117	120	108	60
NA	130	120	130	50
PA	120	165	120	70
KCS	113	143	127	54
TLI	125	165	140	75
TLA	115	130	110	53
DF	108	136	105	55

Subject	**Sample**	**Cond.**	**Total inward leakage, %**					**Mean, %**
			Walk	**Head left/right**	**Head up/down**	**Talk**	**Walk**	
LA	167-3	A.R.	7,14	6,29	5,87	5,07	6,77	6,23
RE	167-4	A.R.	7,58	6,35	6,3	10,42	5,6	7,25
BD	167-5	A.R.	3,59	6,56	6,95	8,8	4,59	6,10
MD	167-6	A.R.	2,84	1,74	2,1	2,92	2,19	2,36
NA	167-7	A.R.	5,72	6,29	6,9	6,51	5,67	6,22
PA	167-8	T.C.	4,66	5,38	3,35	8,01	4,65	5,21
KCS	167-9	T.C.	3,45	2,92	3,21	4,18	4,35	3,62
TLI	167-10	T.C.	4,12	5,13	3,66	4,2	3,15	4,05
TLA	167-11	T.C.	4,69	4,22	4,48	4,81	3,78	4,40
DF	167-12	T.C.	4,15	5,35	3,6	6,71	4,07	4,78

50 out of the 50 individual exercise results for total inward leakage were not greater than 11 % and

10 out of the 10 individual wearer arithmetic means for the total inward leakage were not greater than 8%.

PASSED

7.9.2 Penetration of filter material: NaCl

NaCl aerosol: concentration: 4-12 mg/m^3, flow: 95 l/min

Sample	**Conditioning**	**Penetration, %**	**Exposure, %**
167-13	A.R.	1,48	NA
167-14	A.R.	1,32	NA
167-15	A.R.	1,35	NA
167-16	S.W.	1,18	NA
167-17	S.W.	1,19	NA
167-18	S.W.	1,10	NA
167-19	**M.S→T.C.**	NA	1,38
167-20	**M.S→T.C.**	NA	1,51
167-21	**M.S→T.C.**	NA	1,47
Maximum permitted:		**6 %**	

The penetration of the filter material did not exceed the maximum permitted 6 % in case of any masks.

PASSED

7.9.2 Penetration of filter material: paraffin oil

Paraffin aerosol: concentration: 15-25 mg/m^3, flow: 95 l/min

Sample	Conditioning	Penetration, %	Exposure, %
167-22	A.R.	1,56	NA
167-23	A.R.	1,55	NA
167-24	A.R.	1,62	NA
167-25	S.W.	1,51	NA
167-26	S.W.	1,62	NA
167-27	S.W.	1,56	NA
167-28	**M.S→T.C.**	NA	2,32
167-29	**M.S→T.C.**	NA	2,24
167-30	**M.S→T.C.**	NA	2,50
Maximum permitted:		**6 %**	

The penetration of the filter material did not exceed the maximum permitted 6 % in case of any masks.

PASSED

7.10 Compatibility with skin

Materials that may come into contact with the wearer's skin are not known to be likely to cause irritation or any other adverse effect to health.

During the Practical performance test there were no problems.
During the Total inward leakage test there were no problems.

PASSED

7.11 Flammability

Sample	Conditioning
167-30	T.C.
167-28	T.C.
167-23	A.R.
167-22	A.R.

The materials used do not present a danger for the wearer and are not of highly flammable nature. The samples did not burn.

PASSED

7.12 Carbon dioxide content of the inhalation air

Air supplied from breathing machine: 25 cycles/min and 2,0 l/stroke, carbon dioxide content of exhaled air 5 V/V%, air flow 0,5 m/s.

Ambient carbon dioxide level: 0,08 % (less than 0,1 %.)

Sample	CO_2, V/V%
167-43	0,67
167-44	0,63
167-45	0,75

The carbon dioxide content of the inhalation air (dead space) did not exceed an average of 1,0 V/V %.

PASSED

7.13 Head harness

There were no adverse comments regarding security following limited practical performance and total inward leakage testing.

The product satisfied the total inward leakage requirements. See part 7.9.1. for results.

PASSED

7.14 Field of vision

Sample
167-1
167-2

During the practical performance test the field of vision was not affected adversely by wearing mask.
PASSED

7.15 Exhalation valve(s)

NA

7.16 Breathing resistance

Sample	Conditioning	Inhalation resistance		Exhalation resistance 160 l/min				
		30 l/min	95 l/min	ahead	vert. upwards	vert. downwards	left	right
167-34	A.R.	0,63	1,87	2,91	2,92	2,91	2,91	2,92
167-35	A.R.	0,57	1,95	2,89	2,88	2,90	2,90	2,88
167-36	A.R.	0,64	1,97	2,90	2,91	2,90	2,90	2,91
167-37	T.C	0,59	1,98	2,79	2,81	2,80	2,81	2,82
167-38	T.C	0,53	1,95	2,74	2,76	2,74	2,74	2.75
167-39	T.C	0,57	2,10	2,78	2,79	2,78	2,77	2,78
167-40	S.W.	0,62	1,91	2,93	2,92	2,92	2,93	2,92
167-41	S.W.	0,60	1,90	2,89	2,89	2,90	2,91	2,90
167-42	S.W.	0,62	1,90	2,91	2,89	2,90	2,92	2,91
Maximum permitted		**0,7**	**2,4**	**3,0**				

None of the measured values exceeded the maximum values.
PASSED

7.17 Clogging
The optional dolomit clogging test was not required by manufacturer.
NA

9. Marking
The marking information is complete and clearly and durably marked on the packaging.
The marking information is complete and clearly and durably marked on the particle filtering half mask.
PASSED

10. Information to be supplied by the manufacturer
Information to be supplied by the manufacturer accompany every smallest commercial available package and contain all information necessary for trained and qualified persons.
PASSED

Result of EU-type test:

The above described **BSB_PVR_FFP2 particle filtering half mask** at the time of the test **is conformed** to the test requirements of EN 149:2001+A1:2009 class FFP2 NR at the close date of test report.

E N D O F T H E T E S T R E P O R T