

In compliance with the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

**NATURAL SMOKE AND HEAT EXHAUST VENTILATOR MARTOP**

placed on the market under the name or trade mark of

**MarTop OÜ**

Toome 3A, Tamsalu, Tamsalu vald, 46107 Lääne-Virumaa, ESTONIA

and produced in the manufacturing plant

**Antes Sales OÜ**

Rehemäe tee 14, Kärkla, 92421 Hiiumaa, ESTONIA

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12101-2:2005**

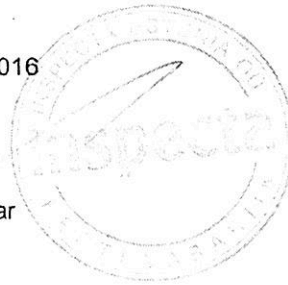
under system 1 for the performance set out in this certificate are applied and that

**the performance of the construction product is assessed to remain constant.**

This certificate was first issued on **04.04.2013** and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The validity of the certificate can be checked on the Internet at [www.inspecta.com/et](http://www.inspecta.com/et).

Tallinn 19.04.2016

Tõnu Roosaar  
Manager



**CE**

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**Group headquarters:** Inspecta Group Oy, Helsinki, Finland

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**Product:** Natural smoke and heat exhaust ventilator MARTOP.

**Characteristics:**

Natural smoke and heat exhaust ventilator can be accommodated on flat roof (slope relative to horizontal plane can vary from 0° to 30°);  
Minimum height of NSHEV upstand + fixed frame is 900 mm;  
Minimum angle of flap opening to fire open position is 140°;  
Opening mechanism, MARTOP OÜ + actuator Multilab B23 (24 V DC), DewertOkin GmbH + gas spring Long LIFE KS.

Essential characteristics	Paragraph	Classification
Reliability	7.1	Re 50 (+10 000) type B
Opening under load	7.2	SL 750
Low ambient temperature	7.3	SL 250 T(-25) SL 500 T(-15)
Wind load	7.4	WL 1500
Resistance to heat	7.5	B 600
Reaction to fire of the materials	7.5.2.1	Metal sheet - class A1, OSB plate - class D-s2, d0, sealing of flap - class F
<b>Aerodynamic free area</b>		
Dimensions of geometric area [mm]	Discharge coefficient $C_v$ [-]	Aerodynamic free area $A_a$ [m <sup>2</sup> ]
1000 x 1000	0,77	0,77
1000 x 1600	0,77	1,23
1000 x 2000	0,70	1,40
1200 x 1200	0,77	1,11
1200 x 1800	0,77	1,66
1200 x 2400	0,70	2,02
1200 x 2570	0,67	2,07
1000 x 2000 with wind deflectors	0,77	1,54
1200 x 2400 with wind deflectors	0,77	2,22
1200 x 2570 with wind deflectors	0,77	2,37

Testing was performed by FIRES, s.r.o., Notified Body No 1396.



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