VTT EXPERT SERVICES LTD

Notified body No. 0809
VTT EXPERT SERVICES LTD
P.O. Box 1001, FI-02044 VTT, Finland

CERTIFICATE OF CONSTANCY OF PERFORMANCE

0809 - CPR - 1182

In compliance with *Regulation 305/2011/EU 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 ventilators

which are wall mounted, outward opening, bottom hung windows with aluminium profiles and electrically operated chain actuator, specified on page 2;

placed on the market under the name or trade mark of

Tikli Group Oy
Yhdystie 40
FI-62800 VIMPELI

and produced in the manufacturing plant

Tikli Group Oy
Yhdystie 40
FI-62800 VIMPELI.

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

EN 12101-2:2003

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on May 18, 2016 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Espoo May 18, 2016

Tiina Ala-Outinen
Business Manager

Tiina Tirkkonen
Product Manager

Characteristic	Roca SuperMaster	Mingardi MXL	Mingardi MXL
	window - maximum weight: 58 kg - height x width max: 1,0 m x 1,7 m	window - maximum weight: 62 kg - height x width max: 1,2 m x 1,4 m	window - maximum weight: 120 kg - height x width max: 1,2 m x 2,4 m
Aerodynamic free area	1), 2)	$C_v = 0,55$ 2)	$C_v = 0,49$ 2)
Reliability	Re 100	Re 1000	
Snow load	SL 0	SL 0	
Low ambient temperature	T (00)	T (-05)	T (00)
Wind load	WL 3000	WL 1500	
Resistance to heat	B 300	B 300	
Reaction to fire of the components	A1, NPD	A1, NPD	A1, NPD

1) Aerodynamic free area in the fire position is calculated according to the instructions based on ITT tests.
2) A_a is given in the declaration of performance.