



## BUILDING RESEARCH INSTITUTE CERTIFICATION DEPARTMENT

ul. FILTROWA 1, 00-611 WARSZAWA  
ph.: +48 (22) 57 96 167, +48 (22) 57 96 168, fax: +48 (22) 57 96 295  
e-mail: [certyfikacja@itb.pl](mailto:certyfikacja@itb.pl), [www.itb.pl](http://www.itb.pl)



### EC CERTIFICATE OF CONFORMITY 1488-CPD-0151/W

In compliance the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products, amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

### NATURAL SMOKE AND HEAT EXHAUST VENTILATORS MCR-PROLIGHT

performance according to Annex No: Z-1488-CPD-0151/W (pages 1+11) which is an integral part this certificate

placed on the market by

**MERCOR SA**  
**ul Grzegorza z Sanoka 2**  
**80-408 Gdańsk**

and produced in the factory

**MERCOR SA Zakład Produkcyjny Ciepłowo**  
**ul. Kwarcowa 3a**  
**83-031 Łęgowo**

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body - *Building Research Institute* - has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

### EN 12101-2:2003

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on 09.07.2010 (updated on 15.12.2010, 21.01.2011, 27.07.2011, 01.09.2011) and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.

HEAD  
of the Certification Department

  
Barbara Dobosz



Warsaw, 01.09.2011

DIRECTOR  
of the Building Research Institute

  
Marek Kaproń

**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Natural smoke and heat exhaust ventilators MCR-PROLIGHT are designed to remove smoke, heat and toxic substances produced during the fire. They support the evacuation of people from buildings, facilitate access for fire fighting, reduce the temperature in the zones under ceiling and delay the spread of fire in the horizontal direction.

Classified according to standard EN 12101-2:2003:

**Reliability max Re 300<sup>4</sup>, wind load max WL 1500<sup>1,2,3</sup>, low ambient temperature max T(-25)**

**resistance to heat max B 600<sup>1</sup>, performance according to Table 2**

**snow load:**

TYP C-A, C-B equipped with pneumatic actuators PUAV: **max SL 2000, max SL 950(PVC)**

TYP C-A, C-B equipped with pneumatic actuators PZ (JOFO): **max SL 750**

TYP C-A, C-B equipped with electric actuators MCRW i MCRW SG: **max SL 1600, max SL 550(PVC)**

TYP E-A, E-B equipped with pneumatic actuators PUAV: **max SL 2000, max SL 950(PVC)**

TYP E-A, E-B equipped with electric actuators MCRW i MCRW SG: **max SL 1600, max SL 550(PVC)**

TYP NG-A equipped with pneumatic actuators PUAV: **max SL 2000, max SL 950(PVC)**

TYP NG-A equipped with electric actuators MCRW i MCRW SG: **max SL 1600, max SL 550(PVC)**

TYP DVP-A, DVP-B, DVPS-A equipped with pneumatic actuators PUAV + standard opening mechanism: **max SL 1750**

TYP DVP-A, DVP-B, DVPS-A equipped with electric actuators MCRW i MCRW SG: **max SL 2000**

TYP DVP-A, DVP-B, DVPS-A equipped with pneumatic actuators PUAV i PVZ (Jofo) + standard opening mechanism: **max SL 1300**

TYP DVP-A, DVP-B, DVPS-A equipped with pneumatic actuators PUAV i PVZ (Jofo) + mechanism for opening H30: **max SL 550**

TYPY C-A, C-B, E-A, E-B, NG-A equipped with pneumatic actuators PZ (JOFO): **max SL 750**

TYPY C-A, C-B, E-A, E-B, NG-A equipped with electric actuators MCRW i MCRW SG: **max SL 1600**

1. Applies to single and double leaf ventilator equipped with the or springs and pneumatic actuators PUAV or electric actuators 24V provided that the base is not made of polyester resin

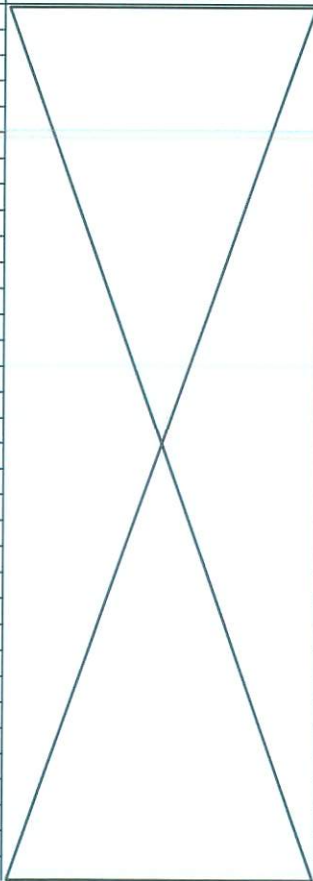
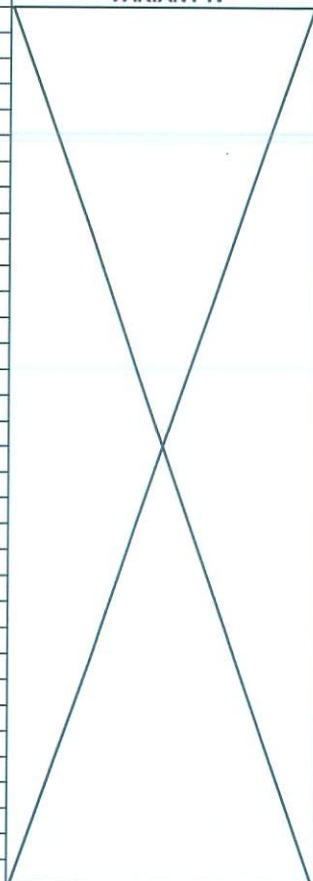
2. When using lock MCR – KHN placed in the middle of the crossbeam and controlled by the actuator piston.

3. Not applicable to ventilators made of PVC profiles

4. Applies to single leaf smoke ventilators equipped with gas springs or pneumatic actuator PZ d-74 / 6 and double leaf ventilators with pneumatic or electric actuators

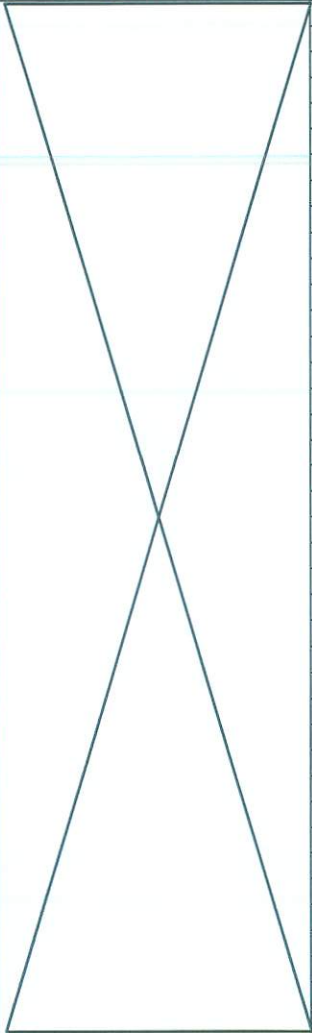
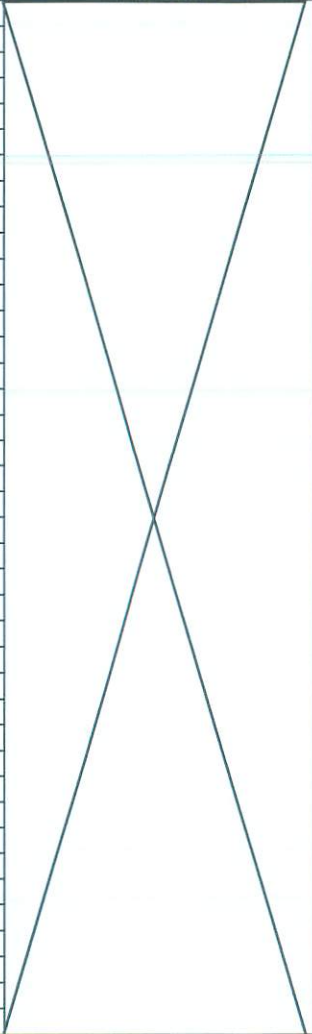
**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A, DVP-B and DVPS-A

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT I	VARIANT II	VARIANT III	VARIANT IV
C-A i E-A	1000 x 1000	0,64		0,72	
	1000 x 1200	0,74		0,85	
	1100 x 1100	0,74		0,85	
	1000 x 1300	0,79		0,92	
	1150 x 1150	0,79		0,91	
	1000 x 1400	0,85		0,98	
	1200 x 1200	0,85		0,98	
	1000 x 1500	0,90		1,04	
	1250 x 1250	0,91		1,05	
	1000 x 1600	0,94		1,10	
	1200 x 1400	0,97		1,13	
	1300 x 1300	0,96		1,13	
	1200 x 1500	1,03		1,21	
	1000 x 1800	1,03		1,22	
	1350 x 1350	1,04		1,20	
	1000 x 1900	1,08		1,27	
	1300 x 1500	1,09		1,29	
	1400 x 1400	1,10		1,27	
	1000 x 2000	1,12		1,34	
	1200 x 1700	1,14		1,35	
	1300 x 1600	1,16		1,35	
	1400 x 1500	1,16		1,37	
	1000 x 2100	1,16		1,40	
	1200 x 1800	1,19		1,43	
	1100 x 2000	1,21		1,45	
	1000 x 2200	1,19		1,45	
	1500 x 1500	1,22		1,44	
	1150 x 2000	1,24		1,50	
	1000 x 2300	1,22		1,50	
	1300 x 1800	1,26		1,52	
1500 x 1600	1,30	1,51			
1200 x 2000	1,30	1,56			
1000 x 2400	1,27	1,56			
1550 x 1550	1,30	1,51			

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Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A, DVP-B and DVPS-A (continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT I	VARIANT II	VARIANT III	VARIANT IV
C-A i E-A	1300 x 1900	1,33		1,58	
	1000 x 2500	1,30		1,63	
	1400 x 1800	1,36		1,61	
	1200 x 2100	1,34		1,63	
	1600 x 1600	1,36		1,61	
	1300 x 2000	1,38		1,66	
	1200 x 2200	1,40		1,69	
	1500 x 1800	1,43		1,70	
	1400 x 2000	1,46		1,76	
	1300 x 2200	1,49		1,80	
	1600 x 1800	1,50		1,79	
	1200 x 2400	1,47		1,81	
	1700 x 1700	1,50		1,76	
	1300 x 2300	1,52		1,88	
	1500 x 2000	1,56		1,86	
	1200 x 2500	1,53		1,89	
	1600 x 1900	1,58		1,88	
	1250 x 2500	1,56		1,94	
	1500 x 2100	1,61		1,95	
	1600 x 2000	1,63		1,95	
	1800 x 1800	1,65		1,94	
	1300 x 2500	1,63		2,02	
	1400 x 2500	1,75		2,14	
	1600 x 2200	1,76		2,15	
	1800 x 2000	1,80		2,16	
	1500 x 2400	1,80		2,20	
	1900 x 1900	1,81		2,13	
	1600 x 2300	1,84		2,21	
	1500 x 2500	1,84		2,25	
	1900 x 2000	1,86		2,24	
	1950 x 1950	1,86		2,24	
	1600 x 2400	1,88		2,30	
1950 x 2000	1,91	2,30			
1800 x 2200	1,94	2,34			
2000 x 2000	1,96	2,32			
1950 x 2200	2,06	2,49			
1800 x 2400	2,07	2,55			
1800 x 2500	2,16	2,61			
1950 x 2500	2,29	2,78			
2000 x 2500	2,35	2,85			

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Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A, DVP-B and DVPS-A(continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT II	VARIANT V	VARIANT IV	VARIANT VI
C-A i E-A	2000 x 2000	2,56	3,12	2,68	3,24
	1950 x 1950	2,43	2,97	2,55	3,08
	1900 x 1900	2,35	2,82	2,45	2,92
	1800 x 1800	2,11	2,49	2,20	2,62
	1700 x 1700	1,88	2,23	1,97	2,34
	1600 x 1600	1,66	1,97	1,74	2,05
	1550 x 1550	1,56	1,85	1,63	1,92
	1500 x 1500	1,46	1,73	1,55	1,80
	1400 x 1400	1,27	1,51	1,35	1,57
	1350 x 1350	1,20	1,40	1,26	1,46
	1300 x 1300	1,12	1,28	1,17	1,35
	1250 x 1250	1,03	1,19	1,09	1,25
	1200 x 1200	0,95	1,09	1,01	1,14
	1150 x 1150	0,87	1,01	0,93	1,04
	1100 x 1100	0,80	0,92	0,85	0,96
C-B i E-B	1000 x 1000	0,67	0,75	0,71	0,79
	1950 x 2000	2,50	3,04	2,61	3,16
	1900 x 2000	2,43	2,96	2,55	3,08
	1500 x 1600	1,56	1,85	1,63	1,92
	1400 x 1500	1,37	1,62	1,45	1,68
	1800 x 2000	2,34	2,81	2,45	2,92
	1600 x 1800	1,87	2,22	1,96	2,33
	1950 x 2200	2,75	3,35	2,87	3,47
	1300 x 1500	1,27	1,50	1,35	1,56
	1200 x 1400	1,11	1,28	1,16	1,34
	1600 x 1900	1,98	2,34	2,07	2,46
	1500 x 1800	1,76	2,08	1,84	2,16
	1000 x 1200	0,79	0,91	0,84	0,95
	1800 x 2200	2,53	3,09	2,65	3,21
	1300 x 1600	1,35	1,60	1,44	1,66
	1600 x 2000	2,08	2,46	2,18	2,59
	1200 x 1500	1,19	1,39	1,24	1,44
	2000 x 2500	3,20	3,90	3,35	4,05
	1950 x 2500	3,12	3,80	3,27	3,95
	1400 x 1800	1,64	1,94	1,71	2,02
	1000 x 1300	0,86	0,99	0,91	1,03
	1800 x 2400	2,76	3,37	2,89	3,50
1500 x 2000	1,95	2,31	2,04	2,43	
1600 x 2200	2,29	2,75	2,39	2,85	
1300 x 1800	1,52	1,80	1,61	1,87	

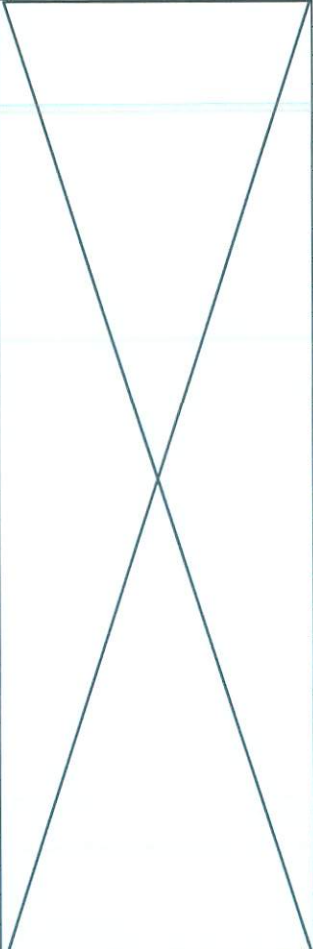
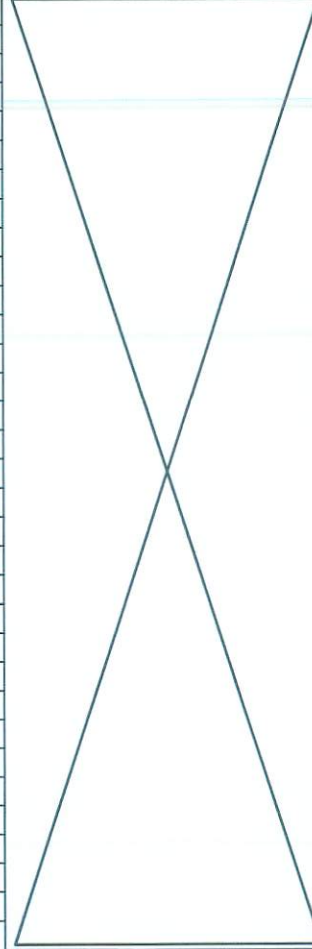
**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-B, NG-A, DVP-A, DVP-B and DVPS-A (continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT II	VARIANT V	VARIANT IV	VARIANT VI
C-B i E-B	1800 x 2500	2,88	3,51	3,02	3,65
	1500 x 2100	2,05	2,43	2,14	2,55
	1000 x 1400	0,92	1,06	0,98	1,11
	1200 x 1700	1,33	1,57	1,41	1,63
	1400 x 2000	1,82	2,16	1,90	2,24
	1600 x 2000	2,08	2,50	2,18	2,59
	1300 x 1900	1,61	1,90	1,68	1,98
	1600 x 2400	2,50	3,00	2,61	3,11
	1200 x 1800	1,40	1,66	1,49	1,73
	1000 x 1500	0,99	1,14	1,05	1,19
	1300 x 2000	1,69	2,00	1,77	2,08
	1500 x 2400	2,34	2,77	2,45	2,88
	1000 x 1600	1,06	1,22	1,12	1,26
	1500 x 2500	2,44	2,89	2,55	3,00
	1200 x 2000	1,56	1,85	1,66	1,92
	1300 x 2200	1,86	2,20	1,94	2,29
	1150 x 2000	1,50	1,77	1,59	1,84
	1200 x 2100	1,64	1,94	1,71	2,02
	1300 x 2300	1,94	2,30	2,03	2,39
	1400 x 2500	2,28	2,70	2,38	2,80
	1000 x 1800	1,19	1,37	1,24	1,44
	1100 x 2000	1,43	1,69	1,52	1,76
	1200 x 2200	1,72	2,03	1,80	2,11
	1000 x 1900	1,25	1,44	1,31	1,52
	1300 x 2500	2,11	2,50	2,21	2,60
	1250 x 2500	2,03	2,41	2,13	2,50
	1200 x 2400	1,87	2,22	1,96	2,30
	1000 x 2000	1,32	1,54	1,38	1,60
	1200 x 2500	1,95	2,31	2,04	2,40
	1000 x 2100	1,39	1,62	1,45	1,68
	1000 x 2200	1,45	1,69	1,52	1,76
	1000 x 2300	1,50	1,77	1,59	1,84
1000 x 2400	1,56	1,85	1,66	1,92	
1000 x 2500	1,63	1,93	1,73	2,00	

**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A , DVP-B and DVPS-A(continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT I	VARIANT II	VARIANT III	VARIANT IV
NG-A	1000 x 1000		0,65		0,65
	1200 x 1200		0,96		0,98
	1000 x 1500		1,01		1,02
	1250 x 1250		1,06		1,08
	1200 x 1500		1,22		1,26
	1000 x 2000		1,36		1,38
	1200 x 1800		1,49		1,53
	1000 x 2200		1,52		1,54
	1500 x 1500		1,55		1,60
	1500 x 1600		1,68		1,70
	1000 x 2400		1,66		1,68
	1000 x 2500		1,73		1,75
	1600 x 1600		1,79		1,84
	1500 x 1800		1,89		1,94
	1600 x 1800		2,02		2,07
	1200 x 2400		2,02		2,07
	1200 x 2500		2,10		2,16
	1500 x 2100		2,24		2,30
	1600 x 2000		2,27		2,34
	1800 x 1800		2,30		2,37
	1500 x 2200		2,34		2,41
	1600 x 2200		2,50		2,57
	1800 x 2000		2,56		2,66
	1500 x 2400		2,56		2,63
	1500 x 2500		2,66		2,74
	1800 x 2200		2,81		2,93
	2000 x 2000		2,84		2,96
	1600 x 2500		2,84		2,96
	1800 x 2400		3,11		3,20
	2100 x 2100		3,18		3,26
	1800 x 2500		3,24		3,33
	2200 x 2200		3,48		3,63
2000 x 2500	3,60	3,75			

**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A, DVP-B and DVPS-A (continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]			
		VARIANT I	VARIANT II	VARIANT III	VARIANT IV
DVP-A (WITH SQUARE OR RECTANGULAR UPRIGHT UPSTAND)	1200 x 2500	1,62	1,83	1,89	-
	1200 x 3000	1,98	2,20	2,30	2,30
	1500 x 2500	1,84	2,33	2,21	2,44
	1500 x 3000	2,25	2,79	2,66	2,93
	1600 x 1600	1,28	1,56	1,51	1,61
	1600 x 2500	1,92	2,48	2,28	2,60
	1600 x 2800	2,15	2,82	2,55	2,91
	1600 x 3000	2,30	3,02	2,74	3,17
	1800 x 1600	1,38	1,76	1,64	1,84
	1800 x 1800	1,52	2,01	1,85	2,07
	1800 x 2500	2,07	2,84	2,48	2,97
	1800 x 2800	2,32	3,18	2,77	3,33
	1800 x 3000	2,48	3,40	2,97	3,56
	2000 x 2000	1,80	2,48	2,16	2,60
	2000 x 2400	2,16	3,02	2,59	3,17
	2000 x 2500	2,25	3,15	2,70	3,30
	2000 x 2800	2,52	3,53	3,02	3,70
	2000 x 3000	2,70	3,78	3,18	3,96
	2200 x 2200	2,13	3,05	2,57	3,19
	2200 x 2400	2,32	3,33	2,75	3,48
2200 x 2500	2,37	3,47	2,86	3,63	
2400 x 2400	2,42	3,63	2,94	3,80	
2400 x 2500	2,52	3,84	3,06	4,02	
2500 x 2500	2,63	4,00	3,19	4,19	
2500 x 3000	3,15	4,80	3,75	5,03	
3000 x 3000	3,60	5,85	4,32	6,12	



**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR – PROLIGHT types C-A i E-A, C-B i E-A, NG-A, DVP-A, DVP-B and DVPS-A(continuation)

VENTILATOR TYPE	NOMINAL SIZE	GEOMETRIC AREA [M <sup>2</sup> ]	
		VARIANT V	VARIANT VI
DVP-B (WITH SQUARE OR RECTANGULAR UPRIGHT UPSTAND)	1800 x 1600	1,99	1,96
	3000 x 3000	6,57	6,66
	2500 x 2500	4,50	4,50
	2400 x 2400	4,15	4,15
	2200 x 2200	3,44	3,44
	2000 x 2000	2,80	2,80
	1800 x 1800	2,24	2,24
	1600 x 1600	1,74	1,74
	2400 x 2500	4,32	4,32
	2200 x 2400	3,75	3,80
	2200 x 2500	3,91	3,96
	2500 x 3000	5,40	5,48
	2000 x 2400	3,41	3,41
	2000 x 2500	3,55	3,55
	1800 x 2500	3,20	3,20
	2000 x 2800	3,98	4,03
	2000 x 3000	4,32	4,32
	1800 x 2800	3,58	3,58
	1600 x 2500	2,80	2,80
	1800 x 3000	3,83	3,83
	1500 x 2500	2,63	2,63
	1600 x 2800	3,14	3,14
	1600 x 3000	3,41	3,41
	1500 x 3000	3,15	3,15
1200 x 2500	2,07	2,04	
1200 x 3000	2,48	2,45	

**ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)**

Table 1. Geometric area of smoke vents MCR-PROLIGHT types C-A i E-A, C-B i E-B, NG-A, DVP-A, DVP-B and DVPS-A(completion)

TYP KLAPY	WYMIAR NOMINALNY	POWIERZCHNIA CZYNNA [m <sup>2</sup> ]			
		WARIANT I	WARIANT II	WARIANT III	WARIANT IV
DVPS-A (PODSTAWA SKOŚNA)	1600 x 1600	X	1,56	X	1,54
	1800 x 1600		1,76		1,76
	1200 x 2500		1,83		1,80
	1800 x 1800		2,01		2,04
	1200 x 3000		2,20		2,20
	1500 x 2500		2,36		2,36
	2000 x 2000		2,52		2,60
	1600 x 2500		2,52		2,56
	1600 x 2800		2,87		2,91
	1800 x 2500		2,88		2,97
	1500 x 3000		2,84		2,93
	2000 x 2400		3,07		3,17
	1600 x 3000		3,07		3,12
	2200 x 2200		3,15		3,19
	2000 x 2500		3,25		3,35
	1800 x 2800		3,23		3,33
	2200 x 2400		3,43		3,54
	1800 x 3000		3,51		3,62
	2200 x 2500		3,58		3,69
	2000 x 2800		3,64		3,75
	2400 x 2400		3,74		3,92
	2400 x 2500		3,96		4,08
	2000 x 3000		3,90		4,08
2500 x 2500	4,13	4,31			
2500 x 3000	5,03	5,25			
3000 x 3000	6,03	6,39			

Variant I – SHEV without wind deflectors and with minimum height of upstand 300 mm

Variant II – SHEV with wind deflectors and with minimum height of upstand 300 mm

Variant III – SHEV without wind deflectors and with minimum height of upstand 500 mm

Variant IV – SHEV with wind deflectors and with minimum height of upstand 500 mm

Variant V – SHEV with wind deflectors and inlet deflectors with minimum height of upstand 300 mm

Variant VI – SHEV with wind deflectors and inlet deflectors with minimum height of upstand 500 mm

## ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)

Table 2. Reaction to fire classification according to EN 13501-1

MATERIAL	PURPOSE	CLASSIFICATION/TEST REPORT AND OTHER DOCUMENTS	CLASSIFICATION	FIELD OF APPLICATION
PROFILES/SHEETS: <ul style="list-style-type: none"> <li>• ALUMINIUM</li> <li>• ZINC-COATED STEEL</li> <li>• STAINLESS STEEL</li> </ul>	UPSTAND FRAME COMPONENTS REINFORCEMENTS COVERING OF SANDWICH HINGES WIND DEFLECTORS CONTROL JET LOCKS	COMMISSION DECISION 96/603/EC EXCHANGED BY COMMISSION DECISION 2003/593/EC	A1	WITHOUT SURFACE TREATMENT
MINERAL WOOL ISOVER G 32 – A2	INSULATION OF UPSTAND  CORE OF SANDWICH PANEL USED AS A FILLING OF THE FLAP	SP-Swedish National Institute of Building Technology Report No. P1063270(06/18/2002)	A2-s1, d0	- DENSITY RANGE 120-130kg/m <sup>3</sup> - GLUE AMOUNT IN THE WOOL 9-11% - max THICKNESS 30 mm
THERMALROOF TR26 25 mm		ITB Fire Research Department NP-1337.1/07/AK	D-s2, d0	
THERMALROOF TR26 25 mm		ITB Fire Research Department NP-1337.2/07/AK	D-s3, d0	
TECHROCK 150		FIRES-RF-034/10 FIRES-CR-030/10	E	DENSITY: 150±20 kg/m <sup>3</sup>
POLYCARBONATE MULTIWALL SHEET EXTRUDED LEXAN TERMOCLEAR LT2UV: <ul style="list-style-type: none"> <li>• LT2UV103RS19</li> <li>• LT2UV103TS20</li> <li>• LT2UV103X20</li> <li>• LT2UV105RS175</li> <li>• LT2UV163TS27</li> <li>• LT2UV163X29</li> </ul>	DOME	Report No. E128253 Warrington - Centre for Fire Research	B-s1, d0	- THICKNESS AND COLOUR SHADE CAN NOT BE CHANGED - AREA DENSITY SHALL BE IN A RANGE OF 2720-2880 g/m <sup>2</sup>
POLYCARBONATE MULTIWALL SHEET EXTRUDED: <ul style="list-style-type: none"> <li>• MAKROLON UV CLEAR 2099</li> <li>• MAKROLON GP CLEAR 099</li> <li>• MAKROLON MULTI UV (4/10- 6,6/16-20,6/20-20)</li> </ul> MACROLUX (EMP S.A.) <ul style="list-style-type: none"> <li>• 5X16 mm</li> <li>• 5X25 mm</li> </ul>		ITB Fire Research Department NP – 776.3/08/T NP - 587.4/08/TG NP-1095/A/07/BP		- AREA DENSITY SHALL BE 1200kg/m <sup>3</sup>



## ANNEX NO Z-1488-CPD-0151/W (an integral part of the certificate no 1488-CPD-0151/W)

Table 2. Reaction to fire classification according to EN 13501-1(completion)

MATERIAL	PURPOSE	CLASSIFICATION/TEST REPORT AND OTHER DOCUMENTS	CLASSIFICATION	FIELD OF APPLICATION
MACROLUX (EMP S.A.) <ul style="list-style-type: none"> <li>• 3W 10 mm</li> <li>• 3W 16 mm</li> <li>• 4RW 16 mm</li> <li>• 5W 16 mm</li> <li>• 5W 20 mm</li> <li>• 5RW 25 mm</li> <li>• 5RW 32 mm</li> </ul>	DOME	NP-1095.1/07/BP NP-1095/23-189/07 NP-1095/34-99/07/ NP-1095/23-190/07/ NP-1095/34-106/07/	B-s2, d0	- AREA DENSITY SHALL BE 1200kg/m <sup>3</sup>
POLYCARBONATE MULTIWALL SHEET EXTRUDED , TYPE: <ul style="list-style-type: none"> <li>• MAKROLON UV CLEAR 2099</li> <li>• MAKROLON UV CLEAR 099</li> </ul> LEXAN THERMOCLEAR LT2UV <ul style="list-style-type: none"> <li>• LT2UV166RS27</li> <li>• LT2UV166RS25</li> <li>• LT2UV205RS33</li> <li>• LT2UV205X32</li> <li>• LT2UV255X34</li> <li>• LT2UV256X35</li> <li>• LT2UV325X38</li> </ul>		ITB Fire Research Department		NP-587.5/08/TG NP-776.4/08/TG
OTHER MULTIWALL SHEETS PC OTHER EXTRUDED PC QINN PETEG PMMA	DOME	Not tested	F	WITHOUT LIMITATION
PUR FOAM EPS PANEL BOARDS	CORE OF SANDWICH PANEL WITCH USED AS A FILILING OF THE FLAP			
PVC PROFILES	FRAME OF THE FLAP			
PES BITUMEN REINFOCED BY FIBREGLASS	UPSTAND CONTROL JETS			
EPDM	Uszczelki			
PES (PES20X5/33A/K1/TA-FRB, PES40X3/33A/TA-FRB, PES30X10/25A/2H70/TA-FRB		FIRES-RF-033/10 FIRES-CR-029/10 FIRES-RF-054/09 FIRES-CR-085/09	E	DENSITY 33 kg/m <sup>3</sup> ±3,5kg/m <sup>3</sup> WITH ACRYLIC GLUE, TYPE A1 APPLIED IN AMOUNT OF min 25g/m <sup>2</sup>
Sandwich panel XPS AL/XPS/AL	UPSTAND, VENTILATOR FILLINGS	FIRES-CR-151-10	E	DENSITY 35 kg/m <sup>3</sup>

HEAD  
of the Certification Department

  
Barbara Dobosz



Warsaw, 01.09.2011

DIRECTOR  
of the Building Research Institute

  
Marek Kaproń