

DIN EN 13141-6:2015-02 (E)

Ventilation for buildings - Performance testing of components/products for residential ventilation - Part 6: Exhaust ventilation system packages used in a single dwelling

Contents		Page
Foreword		4
Introduction		6
1	Scope	8
2	Normative references	9
3	Terms and definitions	10
4	Symbols and abbreviations	11
5	Performance testing of aerodynamic characteristics	12
5.1	General	12
5.2	Test installation and conditions	13
5.2.1	Test configuration	13
5.2.1.1	Test installation	13
5.2.1.2	Maximum airflow test configuration	13
5.2.1.3	Minimum airflow test configuration	14
5.2.1.4	Boosted airflow test configuration	14
5.2.1.5	Energy efficiency test -- reference configuration	14
5.2.2	Installation of duct connecting roof/wall outlet terminal to the fan unit	16
5.2.3	Installation of ducts connecting exhaust air terminal devices and fan unit	16
5.2.4	Test conditions	17
5.2.4.1	Exhaust conditions	17
5.2.4.1.1	Normal conditions	17
5.2.4.1.2	Wind conditions	18
5.2.4.2	Temperature	18
5.2.4.3	Electrical conditions	18
5.3	Test procedure	18
5.4	Presentation of results	18
6	Performance testing of external leakages	19
7	Performance testing of electrical power	20
7.1	General	20
7.2	Method	21
7.3	Analysis of results	21
7.4	Presentation of results	21
8	Performance testing of energy efficiency	21
9	Performance testing of acoustic characteristic	22
9.1	General	22
9.2	Determination of the sound power level of the exhaust air terminal devices or range hood	23
9.2.1	Test installation and conditions for exhaust air terminal devices	23
9.2.2	Test installation and conditions for range hoods	24
9.2.3	Test procedure	24

9.3	Determination of the sound power level of the fan unit	24
9.3.1	General -- Noise radiated through the casing of the unit	24
9.3.2	Test installation and conditions	24
9.3.3	Measurements	24
9.4	Presentation of the results	25
Annex A (informative) Example of compensating mounting for air flow measurement device		26
Bibliography		27