



Test Certificate for Construction Products of a National Approved Test Laboratory P - BAY 09-0041 - 2008



Industrie Service

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Industrie Service

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Allgemeines bauaufsichtliches Prüfzeugnis

(Test Certificate for Construction Products of a National Approved Test Laboratory)

Number of Test Certificate: **P - BAY 09 – 0041**

No.

Date: 2008-03-14

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Client: **EURO WINDKAT GmbH
Leibnizstraße 8
97204 Höchberg**

Subject
of Test Certificate **Terminal for Chimneys
type WINDKAT**

Valid until: **13.03.2013**

This test certificate includes 4 pages and 2 annexes

This test certificate is an English translation of an original document in German. In any case of doubt the German version is binding

I General Provisions

1. This test certificate serves as a prove that the subject of the test certificate is allowed to be used in buildings and constructions according to the legal German requirements (Landesbauordnungen)
2. This test certificate does not substitute the legal requirements concerning the permissions, allowances or confirmation as a basis for the performance of construction projects.
3. The test certificate is issued without taking into account any rights of third parties, especially regarding any industrial property rights.
4. Manufacturer and sales companies of the subject of the test certificate shall supply the user of the product with a copy of the test certificate and they shall inform him, that the test certificate has to be available at the application site. Additional regulations in the special provisions of the test certificate have to be taking into account also. On requirement any implied authority shall get a copy of this test certificate.
5. The test certificate shall be copied only to the full extent. Any publication of excerpts needs the express written approval of TÜV SÜD Industrie Service GmbH in advance. Any advertising documents shall not be in contradiction to this test certificate. Any other translation of this document has to be marked with the note that the translation is not approved by TÜV SÜD Industrie Service GmbH.
6. TÜV SÜD Industrie Service GmbH has the right to inspect or let inspect the manufacturing site, store houses of sales companies or application sites in order to verify whether the provisions of this test certificate are met.
7. This test certificate is issued repealable. The provisons of this test certificate may be supplemented or altered after the issue, especially if new technical knowledge makes an amendment necessary.
8. The construction products handled in this test certificate requires a procedure of assessment of conformity and marking in line with the legal requirements for the use in Germany (Übereinstimmungszeichen-Verordnungen der Länder).

II Special Provisions

1. Scope of the test certificate

The subject of this test certificate is a terminal for chimneys to reduce the influence of wind, based on the document Bauregelliste A, Teil 2, lfd. Nr. 1.6, Ausgabe 2007/1.

The terminal may be used for chimneys of appliances for solid fuel, liquid fuel and gaseous fuel. The use for the supply of combustion air to the appliance in combination with the chimney (balanced flue) is not allowed.

2. Provisions for the construction product

2.1 Features, properties and composition

The terminal consists of a flue pipe, which ends in an outer secondary pipe in concentric arrangement. The outer pipe is designed in such a way that in 3 rows on the circumference openings with deflectors direct to the circular gap between inner flue pipe and outer secondary pipe. The upper end of the terminal is formed as a double cone covering the opening of the flue pipe and the secondary pipe. The double cone is fixed by 3 supports. For cleaning of the flue the double cone can be folded in.

The terminal is fixed with a plate (welded to the outer secondary pipe) on the chimney by positive locking. The terminal is manufactured completely in the material quality 1.4404 according to DIN EN 10088-1.

Additional information is documented in annex A of this test certificate and in the test report A 1720-00/08 dated 2008-03-14, TÜV SÜD Industrie Service GmbH.

2.2 Production and marking

2.2.1 Production

The terminal is produced in the manufacturing site of EURO WINDKAT GmbH or at a subcontractor with EURO WINDKAT GmbH taking the responsibility.

2.2.2 Marking (special for the use in Germany)

The described construction product, the packaging or the accompanying documents have to be marked with the national Ü-mark after the declaration of conformity by the manufacturer. The Ü-mark has to be in line with the legal requirements (Übereinstimmungszeichenverordnungen der Länder). The marking shall be applied only to products as described in clause 1 with regard to the conditions according to clause 2.3.

2.3 Assessment of conformity

2.3.1 General

The manufacturer shall declare conformity of the construction product with the provisions of the test certificate for every manufacturing site on the basis of a factory production control.

2.3.2 Factory production control

Every manufacturing site has to install and perform a factory production control. Factory production control is the continuous surveillance of production by the manufacturer. Factory production control shall ensure the conformity of the product with the provisions of this test certificate.

The factory production control has to be documented in a quality manual, which describes the system, the responsible person, the necessary checks, the applicable limits and the necessary test equipment (including calibration).

The factory production control has to include as a minimum requirement

- the control of dimensions for every production lot
- the marking of products for every production lot
- the control of material quality by supplier's confirmation for every delivery

The results of factory production control have to be documented and stored for 5 years as a minimum.

3. Provisions for the design, the installation and the use

After sootfire the terminal has to be inspected regarding any damage before further use. In the case of condensing flue gas the terminal has to be inspected regularly regarding corrosion attack, minimum once a year.

The flow resistance of the terminal is negligible for dimensioning the chimney according to DIN EN 13384-1 ($\zeta_{\text{terminal}} = 0,0$).

The position of the flue gas outlet of the chimney has to be in line with the legal requirements (Landesfeuerungsverordnungen) and the applicable technical rules.

4. Legal basis

This test certificate is issued on the basis of

- Artikel 21, Bauordnung des Landes Bayern
- in connection with
- Bauregelliste A, Teil 2, lfd. Nr. 1.6, Ausgabe 2007/1.

TÜV SÜD Industrie Service GmbH
PÜZ-Stelle nach Bauordnung des Landes Bayern



Johannes Steiglechner