

## Technical Bulletin No. 29 contains:

1. New certificates for ventilated facade systems
2. Wall-mounted natural smoke and heat exhaust ventilator,  
type GLOS ETEM E45

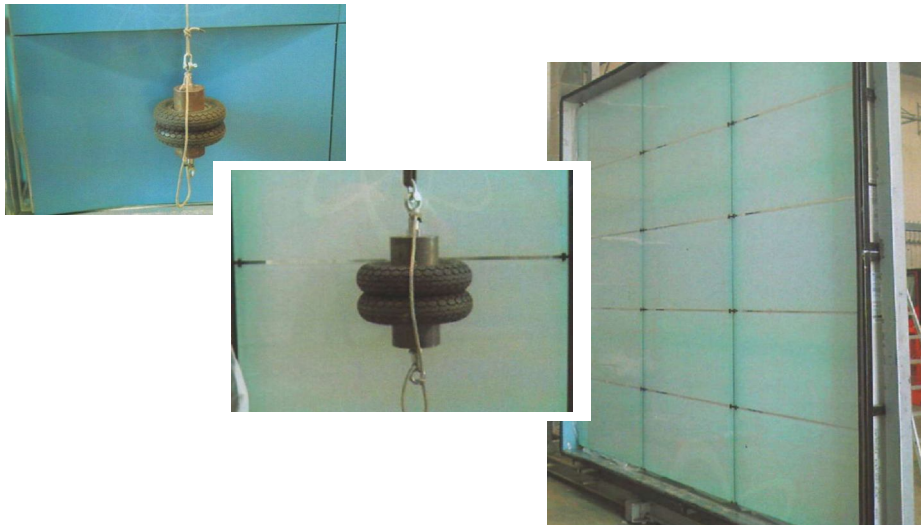
## 1. New certificates for ventilated facade systems

The certification process of ventilated facade systems ETEM finished successfully.

The tests are accomplished by Istituto Giordano, Italy.

The latest certificates prove the technical characteristics of the following systems:

- **Bravo** - system designed for composite materials; the test sample is made with **etalbond**
- **Vario clips** - system for flat materials; the test sample is made with glass panes
- **Vario K20** – system for ceramic tiles Agrob Buchtal



The tests of the three systems are accomplished according to the requirements of the following European standards:

- **EN 1991-1-4:2010 (Eurocode 1)** – Actions on structures - Part 1-4: General actions - Wind actions
- **EN 14019:2004** – Curtain Walling - Impact resistance - Performance requirements

Soon the certificates will be available for download at [www.madeinetem.com](http://www.madeinetem.com) .

## 2. Wall-mounted natural smoke and heat exhaust ventilator, type GLOS ETEM E45

ETEM Bulgaria and Sament gathered their efforts and developed a new product, which is an adequate solution for natural smoke exhaust.

Our new development is **GLOS ETEM E45**, a wall-mounted natural smoke and heat exhaust ventilator for vertical mounting with opening to the inside. This product is based on window system E 45 and it is already tested in a Notified European Body according to EN 12101-2.

GLOS ETEM E 45 meets the requirements of the currently amended national Ordinance I3-1971, which concerns the requirements for fire safety in buildings

We managed to realize the initial purposes of the project:

- ❖ to improve our competitiveness
- ❖ to diversify our product list by adding a new group of products – natural heat and smoke exhaust ventilators.

Our customers could take advantage of the variable applications of that product - it can be used as a separate window and also as a part of a curtain wall system. Rounded frames from system E 45 could not be used for natural smoke and heat exhaust ventilators.

The consequence for processing a customer request is as follows:

1. Send the project info to [ibramm@etem.com](mailto:ibramm@etem.com)
2. After examination the project info is sent to Sament
3. Sament issues an offer
4. The fabricator has to be inspected and approved by Sament
5. Sament mounts the electric devices
6. Sament issues the final certificate for conformity.