

GreCon

Press release

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VOC quick test to determine volatile organic compounds from wood based panels

Fagus-GreCon the international leading manufacturer of measuring systems for the wood based panel industry, will present a laboratory measuring system prototype to determine the emission of volatile organic compounds (VOCs) from wood products. This prototype will be unveiled at LIGNA 2017. The declaration of VOC emissions from construction products in the scope of the CE marking which will be mandatory within the near future is the catalyst for this innovative prototype.

"With this development, we want to make available to the wood based panel industry a system that quickly gains authoritative results on the VOC emission of a product at the factory laboratory" explains Dr. Jörg Hasener, responsible for innovation, patents & strategy at Fagus-GreCon.

GreCon GA 6000, which is already well established in the wood-based panel market and is used to determine formaldehyde emissions, generates the gas flow necessary for the analysis of the VOCs. An enrichment system isolates and separates the VOCs from the gas flow and gas chromatography and ion mobility spectrometry is used for the detection. Evaluation takes place automatically. Like the established methods for the determination of formaldehyde emissions, the VOC quick test only takes few hours. The actual measurement takes approximately one hour from the beginning of enrichment in the gas flow until the results are at hand.

The challenge and focus of the research is developing the optimum sample conditioning to ensure correlation of the VOC Quick Test method results with those of the reference methods specified in prEN 16516.

The EU requirements motivated this development: With prEN 16516, harmonized measuring or test procedures to determine the emissions from construction products have been available throughout the EU since 2015. This means, the VOC emissions must be determined in future and declared in the CE marking of the products. However, the methods specified in prEN 16516 of the ISO 16000 series – especially the test chamber test with gas chromatography and mass spectrometry to determine the substances, with a test duration of 28 days and the demanding analysis, take too much time and are too expensive to be able to be used by the manufacturer for factory-own production control.

After completion of the development work, this VOC quick test will offer a user-friendly and robust system, which will provide reliable information on the VOC emission. Analogue to the methods for formaldehyde emissions, this system shall also be used in the factory-own production control.



The banner consists of three main sections. On the left is the GreCon logo in white on a yellow background, with 'Fagus-GreCon' written below it. The middle section has a dark blue background with the text 'TAKE YOUR PRODUCTION TO THE NEXT LEVEL!' in white, followed by 'Let's talk at LIGNA: Hall 26 · Booth C42' in yellow and white. The right section has a light blue background with the LIGNA logo in white, and the dates '22.-26.05.2017' and location 'Hannover' below it.

GreCon



GreCon, Inc.

The North American headquarters and wholly owned subsidiary of Fagus-GreCon.

Fagus-GreCon - Innovation is our Tradition

Fagus-GreCon Greten GmbH & Co. KG is a privately held company located in Alfeld/Hanover, Germany. The **GreCon** business unit is the market leader in the development and manufacturing of fire protection systems and measuring equipment for many types of industries - including the wood-based panels industry. The **Fagus** business unit belongs to the leading suppliers of the footwear industry because of the worldwide unique combination of design, lasts and molds. All business units operate worldwide and offer customer support on the job-site. The company counts more than 500 employees.

Further information you'll find at

www.grecon-us.com

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