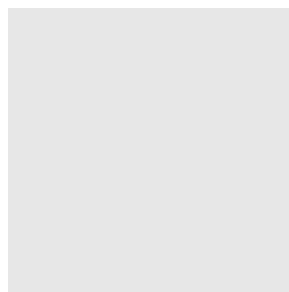
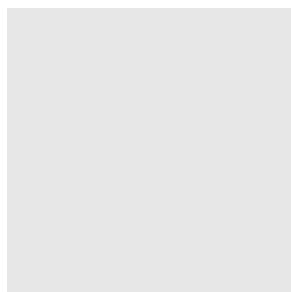


DIN EN 16516

European test standard for emissions testing of construction products



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DIN EN 16516

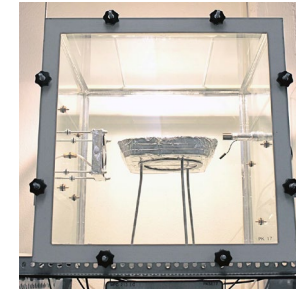
European test standard
for emissions testing of
construction products –

Base for many
quality marks/
test programmes



One emission test – many possibilities*

DIN EN 16516



Emission test chamber

What are emissions and how can they be measured?

Many indoor products emit gaseous substances, some of which are hazardous to health – so-called volatile organic compounds (VOC).

These emissions can be measured in emission test chambers – small rooms made of glass or stainless steel that simulate the climatic conditions of a real interior.



EMICODE® seal



M1



Blue Angel



natureplus®-
label



eco-INSTITUT-Label



AgBB



DIBt expertise/
approval



Belgian
VOC regulation

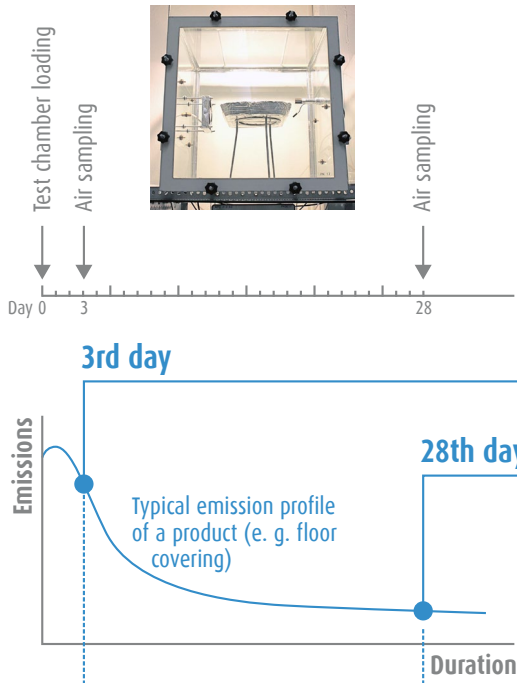


French
VOC label



CAM – Criteri
Ambientali Minimi

*Selection of common quality marks (environmental and health labels) and test programmes for construction products



| Test report | |
|-------------|-----------|
| VOC 1 | 123 µg/m³ |
| VOC 2 | 80 µg/m³ |
| VOC 3 | 234 µg/m³ |
| TVOC | 437 µg/m³ |

| Test report | |
|-------------|-----------|
| VOC 1 | 15 µg/m³ |
| VOC 2 | 6 µg/m³ |
| VOC 3 | 87 µg/m³ |
| TVOC | 108 µg/m³ |

The requirements of the quality marks and test programmes in comparison

| Quality marks (voluntary seals) | | | | | Test programmes | | | | |
|---------------------------------|----|------------|-------------------|--------------------|---|--------------------------|------------------------|------------------|---------------------------------|
| | | | | | | | | | |
| EMICODE® seal | M1 | Blue Angel | natureplus® label | eco-INSTITUT-Label | AgBB | DIBt expertise/ approval | Belgian VOC regulation | French VOC label | CAM – Criteri Ambientali Minimi |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | | | § Legal requirements/ statutory regulations | | | | |

Emissions

For emission measurements, there are usually **2 measurement time points**: On the **3rd and 28th day** after test chamber loading, an air sample is taken from the test chamber. For individual quality marks/ programmes, only **1 measurement** is required after **28 days**.

In addition to VOC, other substances are also measured for individual quality marks/programmes (e. g. ammonia for M1, DIBt).



Further requirements

Many quality marks have further requirements: e.g. for critical ingredients, odour, quality or wood origin. These requirements are tested independently of the emission measurement.

The eco-INSTITUT is a recognized testing laboratory for these quality marks. However, the certification or awarding of the label is carried out by the respective label provider.

The **eco-INSTITUT-Label** is awarded by our own certification body.

