

Assessment of Compliance

Emission measurements according to SS-EN ISO 16000-9:2006 regarding volatile organic compounds (VOC and VVOC/SVOC), carcinogenic substances and formaldehyde after 28 days have been performed on wooden doors with the product names **T48 Laminat**, **T48 Målad** and **T48 Faner**, see the respective test reports 7P04246-01, 7P04246-02 and 7P04246-03, all dated 2017-06-30.

Byggsvarubedömningen has criteria regarding Emissions to indoor environment. The emissions are measured according to a standard method such as ISO 16000-9. The requirements for the *Recommended class* is that the requirements to one of the following systems are being met: Emission EC1, Emission EC1^{PLUS}, Blue Angel, M1 (RTS) or GUT.

The emission results for the tested products are compared to the requirements of M1.

Compounds	Requirement M1 small area (mg/m ³)	Test Results T48 Laminat (mg/m ³)	Test Results T48 Målad (mg/m ³)	Test Results T48 Faner (mg/m ³)	Pass / Fail
TVOC	< 0.02	< 0.010	< 0.010	< 0.010	PASS
Formaldehyde	< 0.01	< 0.002	< 0.002	< 0.002	PASS
CMR 1A+1B	< 0.001	< 0.001	< 0.001	< 0.001	PASS
Ammonia	< 0.01	not measured	not measured	not measured	--
Odour	≥ 0.0	not measured	not measured	not measured	--

The tested products **T48 Laminat**, **T48 Målad** and **T48 Faner**, are in compliance with the tested requirements of M1 and with the Recommended class according to Byggsvarubedömningen.

The emission result of formaldehyde can be converted into a concentration according to EN 717-1:2004 (Wood-based panels – Determination of formaldehyde release – Part 1: Formaldehyde emission by the chamber method).

In EN 717-1 the area specific air flow rate is 1 m³/m²h, this means that the concentration equals the emission rate. After adjustment of measuring at different relative humidity (division by 1.09 (ASTM E 1333-96)) the emission of formaldehyde of the three tested products expressed as **concentration according to EN 717-1 is < 0.01 mg/m³**.

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The criteria for Class E1:

The formaldehyde concentration measured according to EN 717-1:2004 shall be less or equal to 0.124 mg formaldehyde/m³ (according to EN 13986:2004+A1:2015 Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking).

The tested products **T48 Laminat**, **T48 Målad** and **T48 Faner**, are in compliance with the criteria for Class E1.

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