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NSAI Standards

Standard Recommendation
S.R. CR 213:1984

Particle boards - Determination of formaldehyde emission under specified conditions - Method called: formaldehyde emission method

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W **NSAI.ie**

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

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CEN

REPORT
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CR 213

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Key words : Particle boards, tests, measurement, emission of formaldehyde, sampling, specimen preparation, apparatus, testing, conditions, humidity, procedure.

English version

PARTICLE BOARDS
DETERMINATION OF FORMALDEHYDE EMISSION UNDER SPECIFIED CONDITIONS
METHOD CALLED: FORMALDEHYDE EMISSION METHOD

Panneaux de particules - Détermination de l'émission d'aldéhyde formique dans des conditions déterminées. Méthode dite: Méthode d'émission d'aldéhyde formique.

Spanplatten - Bestimmung der Formaldehydabgabe unter festgelegten Bedingungen. Methode genannt: Formaldehydabgabe Methode.

This **CEN REPORT** has been established by Technical Committee CEN/TC 91 and has been approved on 1983-06-15 by the Administrative Board of the European Committee for Standardization in accordance with CEN Internal Regulations.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung
Central Secretariat : Rue Bréderode 2, B-1000 Brussels

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Foreword

A standard for the determination of the formaldehyde emission of particle boards is necessary for controlling the boards in all European countries in the same way. Up till now, every country has its own methods and regulations, with which the producers of particle boards have to comply. All these methods have their own problems on translating the test results into practice. For that reason, CEN/TC 91 has developed a new method as close to practice as possible.

National standards on the same item do not exist.

This method for the determination of formaldehyde emission has not yet been accepted by CEN/TC 91 as a European Standard EN because there are some items that still have to be investigated. The members of CEN/TC 91 have reached a temporary agreement about these items, on the condition that investigations will be made.

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The emission of formaldehyde from a particleboard is a complex process. For a given board, the test result depends upon its age, ageing conditions, moisture content etc., at the time of testing.

The "characteristic of the formaldehyde emission", as determined by the method laid down in this CEN report, is the formaldehyde emission of the test board which is assumed to be in a steady state under specified conditions of temperature, relative humidity, ventilation and loading of the testroom (chamber). The test results must be considered in relation to the specific board-conditions at the time of testing as outlined above. Although the test conditions are close to practice, their exact relation to practice is not known.

Further emission methods will not be developed. The existing methods (e.g. FESYP, TNO) will be harmonized as far as possible with the technical principles of this CEN report.

1 Scope

This CEN report describes a method for characterising the formaldehyde emission from particleboards under specified conditions that have a relation to practice.

2 Field of application

The present CEN report describes a method for the determination of the emission of formaldehyde of particleboards under specified conditions, known as Formaldehyde Emission Method. The method can be used for all kinds of particleboards, coated or uncoated.

3 Principle

The test specimen is conditioned in a climatic chamber at a specified temperature and relative humidity. Under these same conditions of temperature and relative humidity, the formaldehyde concentration in the air of a testroom is measured in a steady state of temperature, relative humidity, ventilation rates and loading rates of the testroom.

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