

ICS 87.040

English Version

**Paints and varnishes - Coating materials and coating systems  
for exterior wood - Assessment of air inclusions/microfoam in  
coating films**

Peintures et vernis - Produits de peintures et systèmes de  
peintures pour le bois en extérieur - Evaluation des bulles  
et microbulles d'air dans les feuillets de peinture

Beschichtungsstoffe - Beschichtungsstoffe und  
Beschichtungssysteme für Holz im Außenbereich -  
Beurteilung von Lufteinschlüssen/Mikroschaum in  
Beschichtungsfilmen

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## Foreword

This document (CEN/TS 16358:2012) has been prepared by Technical Committee CEN/TC 139 “Paints and varnishes”, the secretariat of which is held by DIN.

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## 1 Scope

This Technical Specification specifies a test method for assessing microfoam in coating films on stable wood components. Samples are taken from finished wood components that are produced in a production plant, by craftsmen or a laboratory.

## 2 Principle

Microfoam in coating films is assessed by counting the quantity of air inclusions on the cross section of a coated sample along a distance of 10 mm using a microscope with min.  $80\times$  magnification.

NOTE This method does not include measurement of size of air inclusions on cross sections of the coating film. This would not give evidence on the real size of air inclusions, because the measured diameter depends on the position where an air bubble is cut at random.

## 3 Procedure

Three test samples of coated wood are collected in a distance of min. 200 mm from the corner joints or end grain. It is recommended to collect full cross sections of the wooden window profiles of the frame and casement which enables the assessment of microfoam on all coated surfaces. Clean cross sections of the coating and wood substrate are produced using razor blades or a microtome over a length of min. 15 mm on each position where assessment shall be carried out. Figure 1 shows a possible shape of samples for easy preparation of cross sections. Samples may be moistened to ease cutting of cross sections. On each sample a distance of 10 mm is marked within the prepared cross section by razorblade or microtome cuts.