



BSI Standards Publication

Soil improvers and growing media — Determination of a quantity

National foreword

This British Standard is the UK implementation of EN 12580:2022. It supersedes BS EN 12580:2013, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AW/20, Topsoil, other growing media and turf.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

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English Version

Soil improvers and growing media - Determination of a quantity

Amendements organiques et supports de culture -
Détermination de la quantité

Bodenverbesserungsmittel und Kultursubstrate -
Bestimmung der Menge

This European Standard was approved by CEN on 5 July 2022.

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European foreword

This document (EN 12580:2022) has been prepared by Technical Committee CEN/TC 223 “Soil improvers and growing media”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2023 and conflicting national standards shall be withdrawn at the latest by May 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12580:2013.

In comparison with the previous edition, the following technical modifications have been made:

- the text has been editorially revised, no technical changes to the described method have been made;
- references in Clause 2 and the Bibliography have been updated;
- the terms and definitions have been aligned with CEN/TS 17732:2022;
- the figure has been replaced by two other figures with an example of the apparatus.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

Soil improvers and growing media are generally traded by volume as the weight of the product can be greatly affected by the moisture content. It is important for both consumers and traders to know the volume of product being traded. Furthermore, for the cultivation of plants, it is the volume of the product, and not the weight, that is generally important. The volume is calculated from knowing the weight and bulk density of the product, the latter being determined from weighing a known reference volume of product. For those materials traded by reference to its mass, this document recognizes the effects the moisture content can have on the quantity declared. Therefore, the principle is that for such transactions any weight should be accompanied by the moisture content so that the solid matter content can be calculated.

As some soil improvers and growing media are compressible (and some might be presented in compressed blocks or bales), it is important that this aspect be addressed in the method of determining the bulk density. A suitably competent person should undertake this testing.

Even for materials traded by volume, the moisture content can have an effect as high moisture levels increase agglomerations, can reduce the ability to decompress or reconstitute materials, reduce their flow characteristics and give higher bulk densities and lower volumes.

NOTE Mass and weight are used interchangeably with the same meaning within this document.

The sampling of all materials prior to quantity determination is covered in EN 12579. The sample preparation is covered in EN 13040.

Quantity determination will be performed as soon as possible after preparation and sampling.