

Flexible sheets for waterproofing — Determination of the resistance to wind load of mechanically fastened flexible sheets for roof waterproofing

ICS 91.100.50

National foreword

This British Standard is the UK implementation of EN 16002:2010.

The UK participation in its preparation was entrusted to Technical Committee B/546, Flexible sheets for waterproofing and water vapour control.

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

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English Version

**Flexible sheets for waterproofing - Determination of the
resistance to wind load of mechanically fastened flexible sheets
for roof waterproofing**

Feuilles souples d'étanchéité - Feuilles bitumineuses, en
plastique et en caoutchouc destinées à assurer l'étanchéité
des toitures - Détermination de la résistance à
l'arrachement au vent

Abdichtungsbahnen - Bestimmung des Widerstandes
gegen Windlast von mechanisch befestigten
Dachabdichtungsbahnen

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Foreword

This document (EN 16002:2010) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by November 2010, and conflicting national standards shall be withdrawn at the latest by November 2010.

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Introduction

The test is performed on a standard test configuration, i.e. a load-bearing structure, a layer of insulation material and the mechanically fastened membrane(s).

For the determination of the performance of the mechanical fastening system (fastener and washer), with or without possible substrates, ETAG 006:2000, Annex D may be used. The suppliers of these mechanical fastening systems should provide the required information.

For the calculation of the performance of wind load resistance of the whole roof, see the relevant national and/or international standards.

The result of this standard is the resistance to wind load of the flexible sheet expressed as the characteristic load per fastener. Safety factors may be defined by national regulation and/or within European or national application documents.

In principle, the test apparatus may also be used to assess (partially) bonded flexible sheets, but some modifications and additional guidance are needed. This is the reason to limit the scope of this standard to mechanically fastened sheets only.