



National Standards Authority of Ireland

STANDARD

I.S. TS 13126-8:2004

ICS 91.190

**BUILDING HARDWARE, FITTINGS FOR  
WINDOWS AND DOOR HEIGHT WINDOWS -  
REQUIREMENTS AND TEST PROCEDURES -  
PART 8: TILT & TURN, TILT-FIRST AND  
TURN-ONLY HARDWARE**

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel: (01) 807 3800  
Fax: (01) 807 3838

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TECHNICAL SPECIFICATION  
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**CEN/TS 13126-8**

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English version

**Building hardware, fittings for windows and door height windows  
- Requirements and test procedures - Part 8: Tilt & turn, Tilt-First  
and Turn-Only hardware**

Quincaillerie pour le bâtiment , ferrures de fenêtres et  
portes-fenêtres - Exigences et méthodes d'essais - Partie 8  
: Ferrures d'oscillo-battant, de battant-oscillant et d'ouvrant  
pivotant

Baubeschläge - Beschläge für Fenster und Fenstertüren -  
Anforderungen und Prüfverfahren - Teil 8: Drehkipp-,  
Kippdreh- und Dreh-Beschläge

This Technical Specification (CEN/TS) was approved by CEN on 18 August 2003 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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**Management Centre: rue de Stassart, 36 B-1050 Brussels**

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## **Foreword**

This document (CEN/TS 13126-8:2004) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

A full contribution to the preparation of this Technical Specification has been made by the European manufacturers’ organisation ‘ARGE’ and National Standards institutions.

This Technical Specification is one of a series of Technical Specifications dedicated to building hardware products. It is divided into seventeen parts to incorporate all types of windows and door height windows.

Informative annex A of CEN/TS 13126-1 gives detailed schedules of the elements of components of the seventeen parts of this Technical Specification.

Normative annex B of CEN/TS 13126-1 gives schedules of the elements of components used on the 21 types of window opening functions.

Normative and informative annex to all parts of this Technical Specification are indicated in the content of the seventeen parts.

The performance tests incorporated in this standard are considered to be reproducible and as such will provide a consistent and objective assessment of the performance of these products throughout CEN Member States.

Annex A is informative and annex B is normative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## **CEN/TS 13126-8:2004 (E)**

### **1 Scope**

This Part of CEN/TS 13126 specifies the requirements and test procedures for durability, strength, security and function of Tilt & Turn, Tilt-First and Turn-Only hardware for windows and balcony doors in accordance with the diagrams A, B and E annex A, CEN/TS 13126-1.

By means of this standard, the user of recognised tested hardware can presume, that with correct usage, the Tilt & Turn, Tilt-First or Turn-Only hardware complete mechanism for windows and balcony-doors has met the prescribed requirements.

In order to maintain the guaranteed characteristics during the utilization period, it is indispensable to comply with the manufacturers product information as well as the manufacturers maintenance & service instructions in a manner that can be proven.

### **2 Normative references**

This Technical Specification incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to, or revisions of, any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 1670, *Building hardware – Corrosion resistance – Requirements and test methods.*

EN 12519:2004, *Windows and doors - Terminology*

CEN/TS 13126-1:2004, *Building hardware – Fittings for windows and door height windows – Requirements and test methods – Part 1: Requirements common to all types of fittings.*

### **3 Terms and definitions**

For the purposes of this Technical Specification, the terms and definitions given in EN 12519:2004 for windows and doors and the following apply to windows and balcony-doors made of wood, PVC-U, aluminium or steel and their appropriate material combinations.

#### **3.1**

##### **Tilt & Turn hardware**

Tilt & Turn hardware opens and locks windows and balcony-doors. Tilt & Turn hardware is used to enable windows and balcony-doors initially into the turning position (sidehung), and then into the tilting position by operating the handle. Tilt & Turn hardware in the sense of this standard is a one-hand-operation hardware for windows and balcony-doors for structural engineering, meeting the application range requirements stated in table 1. Other Tilt & Turn hardware designs, in particular those with an increased application range are not affected by these standard.

#### **3.2**

##### **Tilt-First Hardware**

Tilt-First Hardware is used to enable windows and balcony-doors initially into the tilting position, and then into the turning position (sidehung) by operating the handle. The definition of terms, range of application as well as other demands made on Tilt & Turn hardware are also to be applied to Tilt-First hardware.

#### **3.3**

##### **Turn-Only hardware**

Turn-Only hardware is used to enable windows and balcony-doors into a turning position (sidehung) by operating the handle. The definition of terms, range of application as well as other demands made on Tilt & Turn hardware are also to be applied to Turn-Only hardware complete mechanism.

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