

PRESS RELEASE

14-12-105

19 December 2014

New Window Standard DIN 18055

The German Standard consolidates the requirements for windows and external doors

DIN 18055 "Criteria for the application of windows and external doors according to DIN EN 14351-1" is valid with effect from November 2014. It contains the minimum requirements applicable in Germany. These include, for example, thermal protection or heat insulation, the resistance to wind loads or watertightness against driving rain, for which ift Rosenheim has developed a practical online tool with the help of which the requirements can be easily determined.

So far, the requirements for windows and external doors were distributed in different regulations and legislation. The normative principles have been consolidated into a national standard at the request of the windows industry. Thus, DIN 18055 assists in obtaining the requirements with limit values and classifications more easily for a construction property in Germany. The following characteristics have been handled primarily in chapter 4:

- Resistance to wind and snow loads for roof windows,
- Air permeability and watertightness,
- Resistance to impacts and load-bearing capability of safety devices,
- Sound or heat insulation and reaction to fire,
- Radiation properties,
- Operating forces, mechanical strength and burglar resistance,
- Durability and behaviour with different climates,
- Freedom from barriers,
- Use of glazing or doors that safeguard against falling and which have emergency exit locks or alarm door locks.



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November 2014

Empfehlungen für den Einsatz von Fenstern und Außentüren nach DIN 18055:2014-11

Beschreibung:
Objekt: Musterbau
Strasse: Musterstrasse
PLZ + Ort: 83026 Rosenheim
Bauherr: Musterbau
Gebäudehöhe (in m): 12
Windzone: 2

Ersteller:
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Empfehlungen für Anforderungen an Fenster und Außentüren

Eigenschaft	Fenster	Außentür	
		geschützte Bereiche	nicht geschützte Bereiche
Widerstand gegen Windlast nach EN 12210	III (B4)	II	II
Dringende Regen nach EN 12208	SA	nicht über 40	4A
Luftdurchlässigkeit nach EN 12207	3	2	2

Die Tabelle in diesem Dokument ist auf der Grundlage des Dokuments "Die allgemeinen Einbaueigenschaften der Fenster bis 6 m" für Außentüren über 6 m in der Tabelle der Tabelle der Tabelle.

Notizen:
Die Tabelle in diesem Dokument ist auf der Grundlage des Dokuments "Die allgemeinen Einbaueigenschaften der Fenster bis 6 m" für Außentüren über 6 m in der Tabelle der Tabelle der Tabelle.

Legende:
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Informationen:
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Erstellt von: ift-EMPFEHLUNG für den Einsatz von Fenstern und Außentüren
Erstellt am: 19.12.2014
Erstellt von: Max Musterbauer, Musterfirma
Erstellt von: 19.12.2014
Erstellt von: http://www.ift-rosenheim.de

Fig. 1
ift recommendation for use determines the required classes for wind load, driving rain and air permeability in conformity with the standard

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ift Rosenheim

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Doors and Gates
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Recommendations and other explanations on the requirements are furnished in the Appendices A to E.

There was a significant change for the wind load assumptions made for a building that are now determined on the basis of Eurocode 1, DIN 1991-1-4. This led to a minor stringency that nonetheless, is being taken into account in the tables and the ift online tool "Usage recommendations FE 14/2". A sample calculation for the resistance to wind loads is provided in the FAQ section at www.ift-rosenheim.de/faq.

Another change to the draft version so far has been to the requirements of water tightness to driving rain and resistance to wind loads for external doors. You can now differentiate between the protected and unprotected installation location and position. As a result, there is considerable relaxation for barrier-free external doors.

With the help of DIN 18055, the work of tendering and CE marking has been simplified considerably since the requirements have been specified clearly and unambiguously, and have been consolidated into one standard. There are no changes as far as CE marking and declaration of performance; however, they should comply with the recommendation. For this purpose, the comments to DIN EN 14351-1 contain detailed explanations, practical examples and all normative principles necessary as well as references. The ift recommendation for use that is available online enables window classes for wind load, driving rain and air permeability to be determined easily and in conformity with the standard.

(2.453 total characters incl. spaces, lead 463 characters)

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About the ift Rosenheim

ift Rosenheim is a notified European testing, surveillance and certification body with international accreditation, according to DIN EN ISO/IEC 17025. The core activities of ift Rosenheim include practice-oriented, holistic and fast testing and assessment of all characteristics of windows, facades, doors, gates, glazing and construction materials. Ift's goals are the sustainable improvement of product quality, design, and technology as well as standardisation procedures and research. Certification by ift Rosenheim ascertains acceptance all over Europe. ift is committed to providing knowledge and as a neutral institution, ift Rosenheim enjoys a special status with the media and a great variety of publications document cutting-edge information.

Pictures (available to download from the picture library at www.ift-rosenheim.de/bildarchiv)

No.	Image title and file name	Image
1	<p>The ift recommendation for use determines the required classes for wind load, driving rain and air permeability in conformity with the standard</p> <p>File name: PI1412105_Fig_01_Einsatzempfehlung.jpg</p> <p>Source: ift Rosenheim</p>	<p>The image shows the cover of a technical document titled 'Empfehlungen für den Einsatz von Fenstern und Außentüren nach DIN 18055:2014-11'. It includes the ift Rosenheim logo and a table with technical specifications for windows and external doors.</p>
2	<p>The ift recommendation for use needs only the zip code and the building height to be entered for calculating the classes for wind load, driving rain and air permeability.</p> <p>File name: PI1412105_Fig_02_Einsatzempfehlung_input_mask.jpg</p> <p>Source: ift Rosenheim</p>	<p>The image is a screenshot of a web-based input mask for calculating the required classes for wind load, driving rain, and air permeability. It contains various input fields for building details and a 'Berechnen' (Calculate) button.</p>

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3	<p>The comment for Product Standard EN 14351-1, Windows and external doors, includes all the required references for verifications conforming to standards and the CE marking</p> <p>File name: PI1412105_Fig_03_Comment_14351_1.jpg</p> <p>Source: ift Rosenheim</p>	