

**IRISH STANDARD** 

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ICS 91.140.10

ENERGY PERFORMANCE OF BUILDINGS ECONOMIC EVALUATION PROCEDURE FOR
ENERGY SYSTEMS IN BUILDINGS

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#### **English Version**

# Energy performance of buildings - Economic evaluation procedure for energy systems in buildings

Performance énergétique des bâtiments - Procédure d'évaluation économique des systèmes énergétiques des bâtiments Energieeffizienz von Gebäuden -Wirtschaftlichkeitsberechnungen für Energiesysteme in Gebäuden

This European Standard was approved by CEN on 11 August 2007.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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# EN 15459:2007 (E)

Cont	<b>Contents</b> Page					<b>nts</b> Pag	
Forewo	ord	4					
Introdu	ıction	5					
1	Scope	6					
2	Normative references						
3	Terms and definitions, symbols and units						
3.1	Terms and definitions						
3.2	Symbols and units						
4	Organisation of the costs	10					
5	Basic calculations	12					
5.1	Interest rate, discount rate, present value factor and annuity factor	12					
5.1.1	Real interest rate						
5.1.2	Discount rate						
5.1.3	Present value factor						
5.1.4	Annuity factor						
5.2	Global cost						
5.2.1	Principles of the calculation						
5.2.2	Calculation of the final value	_					
5.3 5.3.1	Annuity calculationGeneral						
5.3.1	Annuity calculation for unchanged components during the design payback period of the	10					
5.5.2	building	12					
5.3.3	Annuity calculation for replaced components						
5.3.4	Annuity calculation for running costs						
5.3.5	Influence of price development for dynamic calculations						
6	Principles of the method	19					
6.1	General						
6.2	STEP 1 - Financial data						
6.2.1	Duration of the calculation						
6.2.2	Financial rate	21					
6.2.3	Human operation costs						
6.2.4	Energy prices						
6.3	STEP 2 - General information about the project						
6.3.1	Identification of systems						
6.3.2	Environment of the project						
6.3.3	Meteorological and environmental data (not mandatory)						
6.3.4	Constraints/oppportunity related to energy						
6.4 6.4.1	STEP 3 - Systems characteristics						
6.4.2	Data collectionSTEP 3.1 - Investment costs for systems related to energy						
6.4.3	STEP 3.1 - Investment costs for systems related to energy						
6.4.4	STEP 3.3 – Running costs except energy costs						
6.5	STEP 4 - Energy costs						
6.5.1	General						
6.5.2	STEP 4.1 - Calculation of energy consumption						
6.5.3	STEP 4.2 - Energy costs						
6.6	STEP 5 - GLOBAL COST CALCULATION						
6.6.1	Step 5.1 Calculation of replacement costs						
6.6.2	Step 5.2 Calculation of final value						
6.6.3	Step 5.3 Calculation of global cost	26					

# EN 15459:2007 (E)

6.7	STEP 6 - ANNUITY COST CALCULATION	26
Annex	A (informative) Economical data for energy systems	28
Annex	B (informative) Systems description	32
Annex	C (informative) Calculation sheet for global cost calculation	38
Annex	D (informative) Annuity calculation, organisation of data and results	39
Annex	E (informative) Example 1 - Dwelling 100 m² with gas heating system	40
E.1	STEP 1 - Financial Data	
E.2	STEP 2 - General information about project	40
E.2.1	Identification of systems	40
E.2.2	Environment of the project	40
E.2.3	Meteorological and environmental data (for information)	40
E.3	STEP 3 - System characteristics	
E.3.1	STEP 3.1 - Investment costs for building construction and systems related to energy	41
E.3.2	STEP 3.2 – Periodic costs for replacements	
E.3.3	Step 3.3 – Running costs except energy costs	
E.4	STEP 4 – Energy costs	
E.4.1	STEP 4.1 - Energy consumption	
E.4.2	Step 4.2 - Energy costs	
E.5	STEP 5 - Global costs	
E.5.1	Step 5.1 and 5.2 - Calculation of replacement costs and final value	
E.5.2	Step 5.3 - Global cost report	
E.6	STEP 6 – Annuity calculation costs	49
Biblio	graphy	50

EN 15459:2007 (E)

#### **Foreword**

This document (EN 15459:2007) has been prepared by Technical Committee CEN/TC 228 "Heating systems in buildings", the secretariat of which is held by DS.

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 2008, and conflicting national standards shall be withdrawn at the latest by May 2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association (Mandate M/343), and supports essential requirements of EU Directive 2002/91/EC on the energy performance of buildings (EPBD). It forms part of a series of standards aimed at European harmonisation of the methodology for calculation of the energy performance of buildings. An overview of the whole set of standards is given in prCEN/TR 15615.

The subjects covered by CEN/TC 228 are the following:

- design of heating systems (water based, electrical etc.);
- installation of heating systems;
- commissioning of heating systems;
- instructions for operation, maintenance and use of heating systems;
- methods for calculation of the design heat loss and heat loads;
- methods for calculation of the energy performance of heating systems.

Heating systems also include the effect of attached systems such as hot water production systems.

All these standards are systems standards, i.e. they are based on requirements addressed to the system as a whole and not dealing with requirements to the products within the system.

Where possible, reference is made to other European or International Standards, a.o. product standards. However, use of products complying with relevant product standards is no guarantee of compliance with the system requirements.

The requirements are mainly expressed as functional requirements, i.e. requirements dealing with the function of the system and not specifying shape, material, dimensions or the like.

The guidelines describe ways to meet the requirements, but other ways to fulfil the functional requirements might be used if fulfilment can be proved.

Heating systems differ among the member countries due to climate, traditions and national regulations. In some cases requirements are given as classes so national or individual needs may be accommodated.

In cases where the standards contradict with national regulations, the latter should be followed.

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



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