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SIST EN 441-6:2000

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EUROPEAN STANDARD

EN 441-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Descriptors: Refrigerators, furniture, commerce, classifications

English version

**Refrigerated display cabinets - Part 6:
Classification according to temperature**

Meubles frigorifiques de vente Partie 6: Verkaufskühlmöbel - Teil 6: Temperaturklassen
Classification d'après les températures

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 44 "Household refrigerating appliances", the secretariat of which is held by UNI.

This European Standard shall be given the status of National Standard, either by publication of an identical text or by endorsement, at the latest by april 1995, and conflicting National Standards shall be withdrawn at the latest by april 1995.

This European is part of a series:

- Part 1: Refrigerated display cabinets - Terms and definitions
- Part 2: Refrigerated display cabinets - General mechanical and physical requirements
- Part 3: Refrigerated display cabinets - Linear dimensions, areas and volumes
- Part 4: Refrigerated display cabinets - General test conditions
- Part 6: Refrigerated display cabinets - Classification according to temperature
- Part 7: Refrigerated display cabinets - Defrosting test
- Part 8: Refrigerated display cabinets - Water vapour condensation test
- Part 9: Refrigerated display cabinets - Electrical energy consumption test
- Part 10: Refrigerated display cabinets - Test for the absence of odour and taste
- Part 11: Refrigerated display cabinets - Installation, maintenance and user's guide

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According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

1.1 This standard specifies terminology, general mechanical and physical requirements, test conditions as well as installation, maintenance and user's guide for refrigerated display cabinets for the sale and/or display of food products.

This standard does not cover refrigerated vending machines or cabinets intended for use in catering or similar non retail applications.

1.2 This part of EN 441 specifies the method of classification and particular requirements for refrigerated display cabinets.

Decisions regarding the choice of the types of food for display in the cabinets are outside the scope of this European Standard.

2 Normative references

This European standard 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 [SIST EN 441-6:2000](http://standardsite.ch.ai/c/alog/sist/EN-441-6-2000) or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- EN 441-2 Refrigerated display cabinets - Part 2: General mechanical and physical requirements
- EN 441-4 Refrigerated display cabinets - Part 4: General test conditions
- pr EN 441-5 Refrigerated display cabinets - Part 5: Temperature test

3 Classification according to temperatures

3.1 Climate class

The number of the test room climate class shall be indicated for each cabinet in accordance with EN 441-4, 4.1.7.

3.2 M-package temperature class

Six M-package temperature classes are determined as specified in table 1 and according to EN 441-5.

Table 1 - M-package temperature classes

Class	The highest temperature θ_{ah} of the warmest M-package equal to or lower than $^{\circ}\text{C}$	The lowest temperature θ_b of the coldest M-package equal to or higher than $^{\circ}\text{C}$	The lowest temperature θ_{al} of the warmest M-package equal to or lower than $^{\circ}\text{C}$
L1	-15	-	-18
L2	-12	-	-18
M1	+5	-1	-
M2	+7	-1	-
H	+10	+1	-
S	special classification		

4 Cabinet classification

The cabinet classification is given by the combination of climate class and M-package temperature class.

NOTE: For example a cabinet tested in a test room climate class 3 with a M1 class would be designated as 3M1.