



BSI Standards Publication

Building Information Modelling — Level of Information Need

Part 1: Concepts and principles

National foreword

This British Standard is the UK implementation of EN 17412-1:2020.

The UK participation in its preparation was entrusted to Technical Committee B/555, Construction design, modelling and data exchange.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2020
Published by BSI Standards Limited 2020

ISBN 978 0 539 02227 8

ICS 35.240.67

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2020.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 17412-1

November 2020

ICS 35.240.67

English Version

**Building Information Modelling - Level of Information
Need - Part 1: Concepts and principles**

Modélisation des informations de la construction -
Niveau du besoin d'information - Partie 1 : Concepts et
principes

Building Information Modelling -
Informationsbedarfstiefe - Konzepte und Definitionen

This European Standard was approved by CEN on 18 October 2020.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 General.....	8
5 Framework to specify the level of information need.....	8
5.1 General.....	8
5.2 Consider the purposes	8
5.3 Consider the information delivery milestones	9
5.4 Consider the actors	9
5.5 Consider the objects within a breakdown structure.....	9
6 Definition of level of information need and its subdivision	10
6.1 General.....	10
6.2 Geometrical information.....	11
6.2.1 General.....	11
6.2.2 Detail	11
6.2.3 Dimensionality.....	13
6.2.4 Location.....	14
6.2.5 Appearance	14
6.2.6 Parametric behaviour	15
6.2.7 Relationships of aspects of geometrical information and prerequisites	16
6.3 Alphanumerical information.....	16
6.3.1 General.....	16
6.3.2 Identification	17
6.3.3 Information content.....	17
6.4 Documentation	17
6.5 Relationship diagram on level of information need	18
7 Verification and validation.....	19
Annex A (informative) Overview of the main concepts related to information exchange	20
Annex B (informative) Example of method to specify level of information need.....	21
Bibliography	25