ISO 7519:2024-03 (E)

Technical product documentation (TPD) - Construction documentation - General principles of presentation for general arrangement and assembly drawings

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Construction drawings 2

4.1 General principles 2

4.1.1 Standardized and documented approach to communication 2

4.1.2 Conveyance of purposes 2

4.1.3 Dimensional accuracy 2

4.1.4 Use of content from scanned sources 3

4.1.5 Provision and robustness of external references 3

4.2 Types of drawings 3

4.3 Organization of drawing sets 3

4.3.1 Supplementary information of drawings 3

4.3.2 Hierarchy and grouping of drawings 4

4.4 Site plan 4

4.5 Site layout drawing 5

4.6 General arrangement drawings 6

4.7 Assembly drawings 6

4.8 Component drawings 7

4.9 Detail drawings 7

5 General techniques 7

5.1 General 7

5.2 General representation techniques 7

5.2.1 Simplification 7

5.2.2 Representation types 7

5.3 Simplified representation 8

5.3.1 General 8

5.3.2 Simplified low level representation 8

5.3.3 Simplified medium level representation 8

5.3.4 Simplified high-level representation 8

5.3.5 Simplified detailed representation 9

5.4 Graphical symbols 9

5.4.1 General 9

5.4.2 Graphical symbol types 10

5.4.3 Presentation 10

5.4.4 Consistent understanding 10

5.4.5 Readability 10

5.5 Lines 10

5.5.1 Line types 10

5.5.2 Line width 11

5.5.3 Line use for parts in the cutting plane 11

5.5.4 Line use for parts in front of the cutting plane 11

5.5.5 Line use for parts beyond the cutting plane 11

5.5.6 Line use for indicating function within a simplified representation 12

5.5.7 Line use for indicating function within a graphical symbol 12

5.5.8 Other line uses 12

5.6 Hatching, shading and colour ... 13
5.6.1 Purpose ... 13
5.6.2 Hatching and scale ... 13
5.6.3 Hatching of large area ... 13
5.7 Alphanumerical information ... 14
5.7.1 General ... 14
5.7.2 Text styles and height ... 14
5.7.3 Designations ... 14
5.7.4 General text ... 14
5.7.5 Reference keynotes ... 14
5.7.6 Schedules and lists ... 15
6 Application of representation ... 15
6.1 Stairs and ramps ... 15
6.2 Doors ... 16
6.2.1 Simplified representation ... 16
6.2.2 Door swings ... 17
6.3 Windows ... 17
6.4 Suspended ceilings ... 18
6.5 Openings, holes and recesses ... 18
6.5.1 Openings and holes ... 18
6.5.2 Recesses ... 19
6.6 Arrow symbols ... 19
6.7 Referencing and cross referencing ... 19
Annex A (informative) **Examples of door and window representation ... 21**
Annex B (informative) **Materials in plan or section ... 24**
Bibliography ... 26