



**International  
Standard**

**ISO 7519**

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

*Documentation technique de produits (TPD) — Documentation  
de construction — Principes généraux de présentation pour les  
dessins de disposition générale et d'assemblage*

**Second edition  
2024-03**



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b> .....	<b>v</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Construction drawings</b> .....	<b>2</b>
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
<b>5 General techniques</b> .....	<b>7</b>
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