



ISO DRG directives

DRG working instructions and directives

*Instructions et directives
de travail DRG*

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For all questions concerning the processing of graphics, please contact drawings@iso.org.

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DRG working instructions and directives

1 Introduction

These DRG working instructions and directives are in conformity with decisions taken by the members of the ITSIG GRAPH group for the preparation and processing of graphics in the ISO system. The rules provided are in conformity with the standards developed by ISO/TC 10 and ISO/TC 213. The instructions will be updated when necessary for conformity with any relevant changes in the ISO/TC 10 and ISO/TC 213 standards and the ITSIG GRAPH decisions.

Certain features covered in this document do not exist in the off-the-shelf version of AutoCAD but only in the customized version developed in collaboration with ITSIG GRAPH. The ISO Central Secretariat (ISO/CS) would be happy to provide details concerning these customized features on request.

For all questions concerning the processing of graphics, please contact drawings@iso.org.

2 Terms and definitions used in this document

The terms and definitions used in this document have been defined with a view to providing a simple means of classification of the various types of graphic found in documents prepared and processed in the ISO system. They are not intended to be used in place of the official terms and definitions standardized by ISO/TC 10 and ISO/TC 213.

Table 1 — Terms and definitions used in this document

Term / Terme	Definition	Includes	Excludes
technical drawing dessin technique	technical information, given on an information carrier, graphically presented in accordance with the published rules of ISO/TC 10 and ISO/TC 213 REMARK The fonts used on technical drawings shall be in conformity with ISO 3098.	mechanical engineering and construction (architectural, civil engineering, shipbuilding) drawings	TC 10 technical drawings TC 213 technical drawings diagrams charts graphs illustrations photographs graphical symbols
TC 10 technical drawing dessin technique du TC 10	technical drawing in accordance with the rules of ISO/TC 10 which are published or not yet published REMARK The fonts used on TC 10 technical drawings shall be in conformity with ISO 3098.		technical drawings TC 213 technical drawings diagrams charts graphs illustrations photographs graphical symbols
TC 213 technical drawing dessin technique du TC 213	technical drawing in accordance with the rules of ISO/TC 213 which are published or not yet published REMARK The fonts used on TC 213 technical drawings shall be in conformity with ISO 3098.		technical drawings TC 10 technical drawings diagrams charts graphs illustrations photographs graphical symbols
diagram schéma	drawing in which graphical symbols are used to indicate the function of the components of a system and their relationships REMARK The fonts used on diagrams shall be those used in the text (e.g. Arial, Times New Roman) except for dimensions which shall be in conformity with ISO 3098.	flow diagram schéma de procédé diagramme d'implantation	technical drawings TC 10 technical drawings TC 213 technical drawings charts graphs illustrations photographs graphical symbols

Table 1 (continued)

Term / Terme	Definition	Includes	Excludes
chart organigramme	drawing in which graphical symbols are used to indicate the function of the components of a process or organizational structure and their relationships REMARK The fonts used on charts shall be those used in the text (e.g. Arial, Times New Roman).	flow chart organization chart organigramme	technical drawings TC 10 technical drawings TC 213 technical drawings diagrams graphs illustrations photographs graphical symbols
graph graphique	graphical presentation, usually within a coordinate system, expressing the relationship between two or more variable quantities REMARK The fonts used on graphs shall be those used in the text (e.g. Arial, Times New Roman).		technical drawings TC 10 technical drawings TC 213 technical drawings diagrams charts illustrations photographs graphical symbols
illustration illustration	drawing which illustrates an element of the related text but which is not a technical drawing, a diagram, a chart, a graph, a photograph or a graphical symbol REMARK 1 The fonts used on illustrations shall be those used in the text (e.g. Arial, Times New Roman). REMARK 2 An illustration shall not contain dimensioning or geometrical information unless it illustrates a concept related to dimensioning or geometrical information.	chromatograms chromatogrammes designations désignations	technical drawings TC 10 technical drawings TC 213 technical drawings diagrams charts graphs photographs graphical symbols
photograph photographie	REMARK The fonts used on photographs shall be those used in the text (e.g. Arial, Times New Roman).		technical drawings TC 10 technical drawings TC 213 technical drawings diagrams charts graphs illustrations graphical symbols

Table 1 (continued)

Term / Terme	Definition	Includes	Excludes
graphical symbol symbole graphique	visually perceptible figure with a particular meaning used to transmit information independently of language NOTE It may be produced by drawing, printing or other means. [ISO 9186:2001]	graphical symbols falling under the scope of ISO/TC 145, and those falling under the scope of ISO/TC 10/SC 10 and published in the ISO 14617 series and the ISO/IEC 81714 series.	technical drawings TC 10 technical drawings TC 213 technical drawings diagrams charts graphs illustrations photographs graphical symbols falling under the scope of ISO/TC 82, Mining
graphic dessin	any type of drawing or photograph REMARK The collective term is graphics (dessins).	technical drawings TC 10 technical drawings TC 213 technical drawings diagrams charts graphs illustrations photographs graphical symbols	

3 Glossary

Table 2.1 — French / English glossary

French	English
arête cachée, f	hidden edge
arête vue, f	visible edge
assemblage, m	assembly
axe de révolution, m	centreline
axe des graphiques, m	graph axis
bout carré de l'arbre, m	square end on shaft
cadre de tolérance, m	tolerance frame
cadre, m	frame
caractère, m	character
cartouche du dessin, m	title block of the drawing
chromatogramme, m	chromatogram
chromé, adj	chromium plated
continu, adj	continuous
contour, m	outline
contour primitif d'un objet, m	initial outline
contour caché, m	hidden outline
contour vu, m	visible outline
convention de codage, f	encoding convention
couche, f	layer
coupe, f (la section et la partie de l'objet située en arrière du plan sécant par rapport à la direction de l'observation)	section (a section, or sectional view, at the cutting plane including other visible outlines situated beyond the cutting plane when seen in the direction of viewing)
coupe et indication de coupe, f	section and cutting plane indication
demi-coupe, f	half section
trait oblique, m	oblique stroke
description des entités, f	description of entities
dessin technique, m	technical drawing
dessin technique du TC 10, m	TC 10 technical drawing
dessin technique du TC 213, m	TC 213 technical drawing
dessins (terme collectif), m	graphics (collective term)
diagramme d'implantation, m	diagram
dimension, f	dimension
échelle de réduction, f	reduction ratio
élément, m	feature
en zigzag continu uniforme	uniform zigzag continuous line
épaisseur de trait, f	line weight
épaisseurs de traits, f	line weights
état de surface, m	surface state
fichier natif, m (fichier dans le format propriétaire du logiciel dans lequel ils étaient créés, p.ex. pour AutoCAD "DWG", pour Adobe Illustrator® "AI", pour CorelDraw "CDR")	native file (file in the proprietary format of the software in which they were created, e.g. for AutoCAD "DWG", for Adobe Illustrator® "AI", for CorelDraw "CDR")

Table 2.1 (continued)

French	English
format de publication d'origine, m	original publication size
format natif, m (format propriétaire d'un logiciel, p.ex. pour AutoCAD "DWG", pour Adobe Illustrator® "AI", pour CorelDraw "CDR")	native format (proprietary format of a software, e.g. for AutoCAD "DWG", for Adobe Illustrator® "AI", for CorelDraw "CDR")
format de création propriétaire, m	proprietary creation format
format d'échange, m	exchange format
formulaire, m	form
fraisé, adj	milled
graphique, m	graph
hachure, f	hatching
illustration, f	illustration
image doit être orientée à la verticale, f	image orientation shall be upright
imprimante de basse résolution, f	low resolution printer
interrompu, adj	dashed
intersection, f	intersection
intersection fictive, f	imaginary intersection
intersection réelle, f	true intersection
légende, f	key
couche multiple de dix, f	layer decade
ligne de cote, f	dimension
ligne d'attache, f	projection line
ligne de centre de gravité, f	centroidal line
ligne de cote continue, f	continuous dimension line
ligne de repère, f	leader line
limites de l'image, f	image boundary
méthode de projection du premier dièdre, f	first-angle projection method
méthode de projection du troisième dièdre, f	third-angle projection method
mixte fin, adj	chain thin
mixte fin à deux tirets, adj	chain thin double-dashed
nom de police de symboles, m	symbolic font name
note de bas de figure, f	footnote to the figure
objet, m	object
objet transparent, m	transparent object
organigramme, m	chart flow chart organization chart organigramme
ouverture carrée/rectangulaire, f	square/rectangular opening
partie composant, f /élément physique, m	component part/physical element
partie contiguë, f	adjacent part
photographie, f	photograph
pièce symétrique, f	symmetrical part
plan de coupe, m	cutting plane

Table 2.1 (continued)

French	English
police grotesque, f, (par exemple Arial)	grotesque font (e.g. Arial)
projection du premier dièdre, f	projection in the first-angle representation
projection du troisième dièdre, f	projection in the third-angle representation
prolongement de la ligne d'attache de cote, m	prolongation of extension line
repère, m	reference
repère d'élément, m	item reference
reproduite à une échelle réduite, adj	reproduced in reduced size
réservé, adj	reserved
schéma, m	diagram
schéma de procédé, m	flow diagram
section, f (l'intersection du plan de coupe et de la matière de l'objet)	section (a section at the cutting plane showing no other outlines)
section sortie, f	removed section
section de faible épaisseur, f	thin section
section rabattue sur place ou sortie, f	section revolved in the relevant view or removed section
section transversale, f	cross-section
symbole graphique, m	graphical symbol
symbole, m	symbol
texte, m	text
titre de la figure, m	figure title
tolérance de forme, f	tolerance of form
trace de plan de symétrie, f	line of symmetry
trame, f	shading
type de trait, m	line type
version compatible, f	compatible version
version linguistiques distincte, f	separate language version
vue d'arrière, f	view from the rear
vue de dessous, f	view from below
vue de dessus, f	view from above
vue de droite, f	view from the right
vue de face, f	view from the front
vue de gauche, f	view from the left
vue éclatée, f	exploded views
vue interrompue, f	interrupted view
vue locale, f	local view
vue particulière, f	special view
vue partielle, f	partial view

Table 2.2 — English / French glossary

English	French
adjacent part	partie contiguë, f
assembly	assemblage, m
centreline	axe de révolution, m
centroidal line	ligne de centre de gravité, f
chain thin	mixte fin, adj
chain thin double-dashed	mixte fin à deux tirets, adj
character	caractère, m
chart	diagramme, m
chromium plated	chromé, adj
compatible version	version compatible, f
component part/physical element	partie composant, f/élément physique, m
continuous	continu, adj
continuous dimension line	ligne de cote continue, f
cross-section	section transversale, f
cutting plane	plan de coupe, m
dashed	interrompu, adj
description of entities	description des entités, f
dimension	ligne de cote, f
dimension	dimension, f
encoding convention	convention de codage, f
exchange format	format d'échange, m
exploded views	vue éclatée, f
feature	élément, m
figure title	titre de la figure, m
first-angle projection method	méthode de projection du premier dièdre, f
footnote to the figure	note de bas de figure, f
form	formulaire, m
frame	cadre, m
graph	graphique, m
graph axis	axe des graphiques, m
graphics (collective term)	dessins (terme collectif)
grotesque font (e.g. Arial)	police grotesque, f (par exemple Arial)
half section	demi-coupe, f
hatching	hachure, f
hidden edge	arête cachée, f
hidden outline	contour caché, m
image boundaries	limites de l'image, f

Table 2.2 (continued)

English	French
image orientation shall be upright	image doit être orientée à la verticale
imaginary intersection	intersection fictive, f
initial outline	contour primitif d'un objet, m
interrupted view	vue interrompue, f
intersection	intersection, f
item reference	repère d'élément, m
key	légende, f
layer	couche, f
layer decade	couche multiple de dix, f
leader line	ligne de repère, f
line type	type de trait, m
line weight	épaisseur de trait, f
line weights	épaisseurs de traits, f
line of symmetry	trace de plan de symétrie, f
local view	vue locale, f
low resolution printer	imprimante de basse résolution, f
milled	fraisé, adj
native file (files in the proprietary format of the software in which they were created, e.g. for AutoCAD "DWG", for Adobe Illustrator® "AI", for CorelDraw "CDR")	fichier natif, m (fichier dans le format propriétaire du logiciel dans lequel ils étaient créés, p.ex. pour AutoCAD "DWG", pour Adobe Illustrator® "AI", pour CorelDraw "CDR")
native format (proprietary format of a software, e.g. for AutoCAD "DWG", for Adobe Illustrator® "AI", for CorelDraw "CDR")	format natif, m (format propriétaire d'un logiciel, p.ex. pour AutoCAD "DWG", pour Adobe Illustrator® "AI", pour CorelDraw "CDR")
object	objet, m
oblique stroke	trait oblique, m
original publication size	format de publication d'origine, m
outline	contour, m
partial view	vue partielle, f
projection line	ligne d'attache, f
projection in the first-angle representation	projection du premier dièdre, f
projection in the third-angle representation	projection du troisième dièdre, f
prolongation of extension line	prolongement de la ligne d'attache de cotes, m
proprietary creation format	format de création propriétaires, m
reduction ratio	échelle de réduction, f
reference	repère, m
removed section	section sortie, f
reproduced in reduced size	reproduite à une échelle réduite, adj
reserved	réservé, adj
section (a section at the cutting plane showing no other outlines)	section, f (l'intersection du plan de coupe et de la matière de l'objet)

Table 2.2 (continued)

English	French
section (a section, or sectional view, at the cutting plane including other visible outlines situated beyond the cutting plane when seen in the direction of viewing)	coupe, f (la section et la partie de l'objet située en arrière du plan sécant par rapport à la direction de l'observation)
section and cutting plane indication	coupe et indication de coupe, f
section revolved in the relevant view or removed section	section rabattue sur place ou sortie, f
separate language version	version linguistique distincte, f
shading	trame, f
special view	vue particulière, f
square/rectangular opening	ouverture carrée/rectangulaire, f
square end on shaft	bout carré de l'arbre, m
surface state	état de surface, m
symbolic font name	nom de police de symbole, m
symbol	symbole, m
symmetrical part	pièce symétrique, f
text	texte, m
thin section	section de faible épaisseur, f
third-angle projection method	méthode de projection du troisième dièdre, f
title block of the drawing	cartouche du dessin, m
tolerance frame	cadre de tolérance, m
tolerance of form	tolérance de forme, f
transparent object	objet transparent, m
true intersection	intersection réelle, f
uniform zigzag continuous line	en zigzag continu uniforme, adj
view from above	vue de dessus, f
view from below	vue de dessous, f
view from the front	vue de face, f
view from the left	vue de gauche, f
view from the rear	vue d'arrière, f
view from the right	vue de droite, f
visible edge	arête vue, f
visible outline	contour vus, m

4 Structure of the ISO AutoCAD template "ISO GRAPH Template V1.1.dwt"

Table 3 — Structure of the ISO GRAPH Template V1.1.dwt

Layer	Layer name	Line thickness	Colour	Description/remark	Illustration of line type
0	—	—	grey	Default layer in AutoCAD	Layer does not print
00.1	SYMBOLS	0,175 mm	green	—	
00.2	DIMENSIONS	0,175 mm	green	—	
00.3	HATCHING	0,175 mm	green	—	
00.4	TEXT	0,25 mm	yellow	—	
00.5	CHANGES	0,175 mm	31	—	Layer does not print
00.6	—	—	—	Reserved	
00.7	—	—	—	Reserved	
00.8	FRAME	—	—	Layer does not print	
01.0	CONTINUOUS	—	—	Reserved	
01.1		0,125 mm	red	ISO 128, continuous line	
01.2		0,175 mm	green		
01.3		0,25 mm	yellow		
01.4		0,35 mm	white		
01.5		0,50 mm	cyan		
01.6		0,70 mm	magenta		
01.7		1,00 mm	blue		
01.8		—	—	Reserved	
01.9		—	—	Reserved	

Table 3 (continued)

Layer	Layer name	Line thickness	Colour	Description/remark	Illustration of line type
02.0	DASHED ^a	—	—	Reserved	
02.1		0,125 mm	red	ISO 128, dashed line	---
02.2		0,175 mm	green		---
02.3		0,25 mm	yellow		---
02.4		0,35 mm	white		---
02.5		0,50 mm	cyan		---
02.6		0,70 mm	magenta		---
02.7		1,00 mm	blue		---
02.8	CENTER ^a	—	—	Reserved	
02.9		—	—	Reserved	
04.0		—	—	Reserved	
04.1		0,125 mm	red	ISO 128, long dashed dotted line	---
04.2		0,175 mm	green		---
04.3		0,25 mm	yellow		---
04.4		0,35 mm	white		---
04.5		0,50 mm	cyan		---
04.6		0,70 mm	magenta		---
04.7		1,00 mm	blue		---
04.8		—	—	Reserved	
04.9		—	—	Reserved	

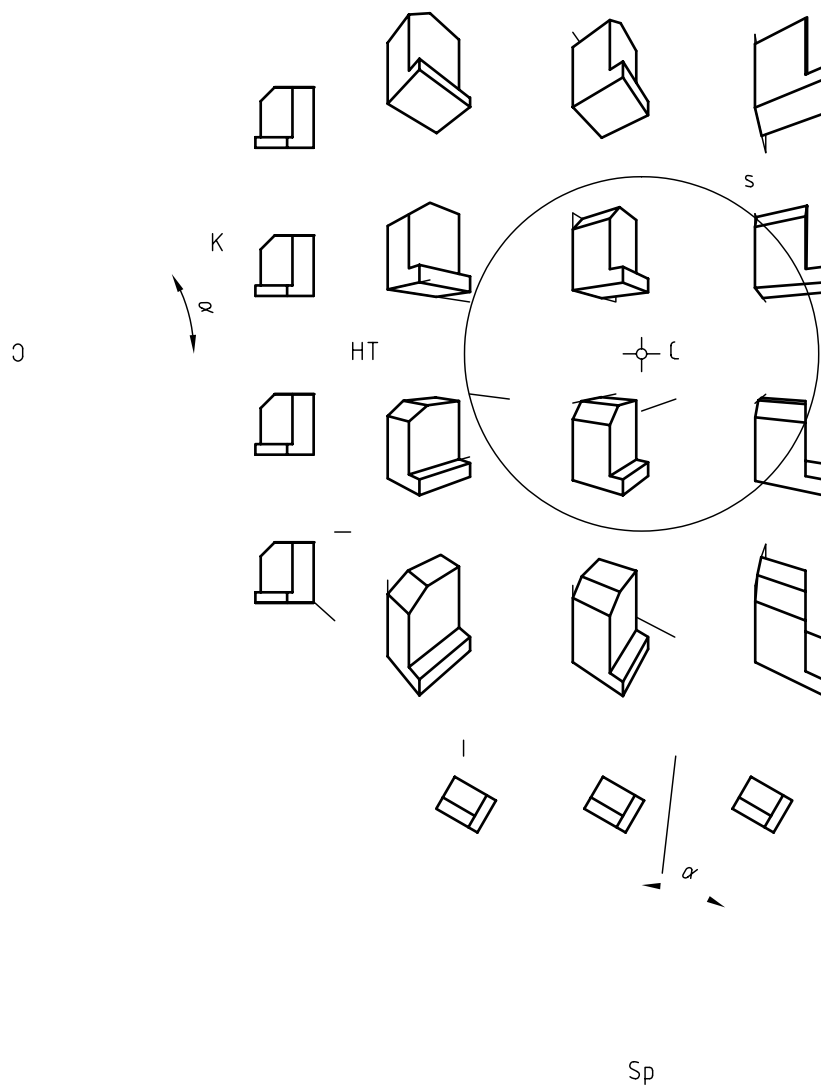
Table 3 (continued)

Layer	Layer name	Line thickness	Colour	Description/remark	Illustration of line type
05.0	PHANTOM ^a	—	—	Reserved	
05.1		0,125 mm	red	ISO 128, long dashed double-dotted line	
05.2		0,175 mm	green		
05.3		0,25 mm	yellow		
05.4		0,35 mm	white		
05.5		0,50 mm	cyan		
05.6		0,70 mm	magenta		
05.7		1,00 mm	blue		
05.8		—	—	Reserved	
05.9		—	—	Reserved	
16.0	SAFETY COLOUR GREEN		90	"solid" hatching	
16.1	SAFETY COLOUR BLUE		150		
16.2	SAFETY COLOUR RED		10		
16.3	SAFETY COLOUR YELLOW		50		
16.4	SAFETY COLOUR ORANGE		30		
16.5	SAFETY COLOUR WHITE		255		
16.6	SAFETY COLOUR BLACK		29	"solid" hatching	
17.0	LIGHT GREY		254		
17.1	MEDIUM GREY		253		
17.2	DARK GREY		252		

^a Possible reduction factors are 0,25, 0,5 and 0,75.

Annex A (normative)

Directives for graphics



A.1 Correction symbols (extract from ISO 5776:1983)

Table A.1 — Correction symbols (extract from ISO 5776:1983)

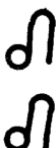
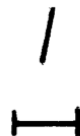
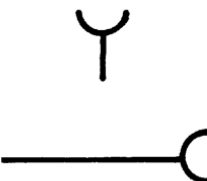
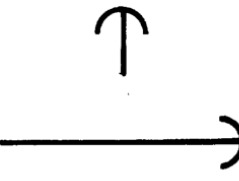
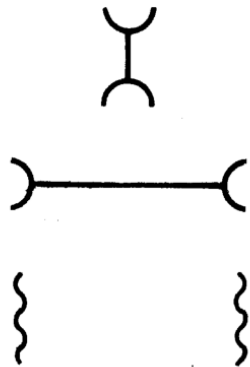
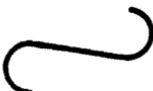
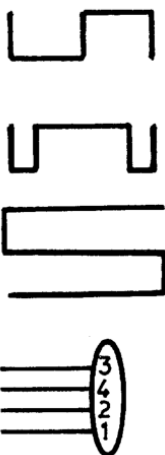
No. N° N°	Instructions	Instructions	Назначение	Symbols Symboles Знаки
1	Leave unchanged	Laisser tel quel	Оставить без изменения	-----
2	Delete — one character — characters or word(s)	Supprimer — un caractère — des caractères ou un (des) mot(s)	Выкинуть — одну букву — буквы или слово(а)	
3	Substitute — one character — characters or word(s)	Substituer — un caractère — des caractères ou un (des) mot(s)	Заменить — одну букву — буквы или слово(а)	
4	Insert — character(s) or word(s) — a given text referred to or attached (for example 2)	Insérer — un (des) caractère(s) ou un (des) mot(s) — un texte donné en renvoi ou en annexe (par exemple 2)	Вставить — буквы или слово(а) — данный текст, на который дается ссылка (например, 2 вставка)	
5	Increase the space — between two characters, two words — between two lines, two paragraphs, two clauses	Augmenter l'espacement — entre deux caractères, deux mots — entre deux lignes, deux alinéas, deux paragraphes	Увеличить пробел — между двумя буквами, двумя словами — между двумя строками, двумя абзацами, двумя параграфами	
6	Reduce or delete the space — between two characters, two words — between two lines, two paragraphs, two clauses	Diminuer ou supprimer l'espacement — entre deux caractères, deux mots — entre deux lignes, deux alinéas, deux paragraphes	Уменьшить или уничтожить пробел — между двумя буквами, двумя словами — между двумя строками, двумя абзацами, двумя параграфами	

Table A.1 (continued)

No. N° N°	Instructions	Instructions	Назначение	Symbols Symboles Знаки
7	Equalize the space — between two characters, two words — between two lines, two paragraphs, two clauses — between several lines of the text	Égaliser l'espacement — entre deux caractères, deux mots — entre deux lignes, deux alinéas, deux paragraphes — entre plusieurs lignes du texte	Сделать равномерный пробел — между двумя буквами, двумя словами — между двумя строками, двумя абзацами, двумя параграфами — между несколькими строками текста	
8	Start a new paragraph	Créer un alinéa (aller à la ligne)	Сделать абзац (набирать вподбор)	
9	Run on (no new paragraph)	Continuer sans alinéa (supprimer un alinéa)	Продолжать набирать вподбор (без абзаца)	
10	Transpose — adjacent characters or words — separated characters or words — adjacent lines or groups of lines — various lines	Transposer — des caractères ou mots voisins — des caractères ou mots non voisins — des lignes ou groupes de lignes voisines — diverses lignes	Переставить — соседние буквы или слова — несоседние буквы или слова — соседние строки или несколько строк — разные строки	
11	Centre	Centrer	Выключить по центру	