



All rights reserved including the right of reproduction in whole or in part in any form. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without prior permission from Usługi Informatyczne "SZANSA" Sp. z o.o.

All signs found in the text are trademarks or registered trademarks of their respective owners. Usługi Informatyczne "SZANSA" Sp. z o.o. has made its best effort to deliver complete and reliable information within this manual. The firm shall not be held liable for the usage, or for any potential breach of patent or copyrights included within the manual.

Usługi Informatyczne "SZANSA" Sp. z o.o. may in no way be held responsible for damage that may occur as a result of and/or when using the information found within the manual.

Usługi Informatyczne "SZANSA" Sp. z o.o.
ul. Świerkowa 25
43-305 Bielsko-Biała
NIP 937-267-27-69
www.zwcad.pl
tel. +48 33 307 01 95

Copyright © Usługi Informatyczne "SZANSA" Gabriela Ciszynska-Matuszek.

Table of content

Load	10
Gis data panel.....	10
Import/Export.....	10
Import SHP	10
Export SHP.....	11
Data: Table edit.....	12
Data: Add data	13
Data: Remove data.....	13
Tools	14
Label.....	14
Report	14
Select.....	15
Select by area.....	16
Turn on/off fill.....	16
GML	17
GML Import.....	17
GML Export	17
WFS Import	18
WMS.....	19
WMS_Import.....	19
Reference systems	19
Set reference systems.....	19
Transform drawing.....	20
Mark coordinate	20
OSM.....	21
OpenStreetMap	21
H	21
H.....	21
Selection.....	22
Select inside polyline.....	22
Select crossing polyline	23
Select inside by point.....	24
Select inside and crossing by point.....	24
Manage points.....	26
Add points	26
Describe points	26
Quick point.....	27
Interpolate	27

Import points	28
Export coordinates	28
Table of points	29
Report points as table	32
Points by distance	32
Manage lines	33
Describe objects	33
Draw by numbers	34
Mark middle segment of the polyline	34
Export polyline coordinates	34
Polyline coordinates to a table	35
Raster images	36
Insert all rasters from a selected folder	36
Insert multiple raster files	36
Tools	37
Rectangular offset	37
Front measure	38
Describe conduit	39
Mark a boundary	39
Insert a cross grid	40
Save text in txt file	41
Rectangle	41
View	42
Cover elements with text	42
Bring forward	42
Trim Map	42
Visibility	43
Profile	45
Mark Contour Lines	45
Label Contour Line	45
Draw Profile	46
PRPOG	47
Horizontal fundamental geodesic network	47
Horizontal base geodesic network	47
Fundamental height geodesic network	47
Vertical geodesic network	48
Fundamental gravimetric geodesic network	48
Gravimetric base geodesic network	48
Fundamental magnetic geodesic network	48

Base magnetic geodesic network	49
Detailed horizontal geodesic control network	49
Detailed height geodesic control network.....	49
PRG	50
Country border.....	50
Voivodeship border.....	50
District border	51
Commune border	51
Permanently stabilized state point of the state border.....	51
Permanently stabilized intermediate point of the state border.....	52
Land and building records	52
Cadastral unit	52
Cadastral precinct	52
Cadastral parcel	53
Border point.....	53
Land use outline	53
Classification outline	54
Building	54
Above ground storey.....	55
Underground storey.....	55
Connector.....	55
Overhang.....	56
Building passage.....	56
Different type of block	57
Terrace	57
Porch	57
Vestibule	58
Stairs.....	58
Pillar	59
Ramp	59
Entrance to the underground	59
Ramp for disabled people	60
Geodetic record of land utilities networks	60
Water pipe	60
Water supply technical device	61
Valve.....	61
Hydrophore plant.....	61
Hydrant	62
Street spring	62

Ordinary well.....	63
Deep well	63
Sewage pipe	63
Sewage technical device	64
Valve.....	64
Sewage well.....	64
Sewage grate.....	65
Linear drainage	65
Cesspool	66
Home sewage treatment plant	66
Sewer outlet.....	66
Pumping station	67
Electrical cable	67
Electrical technical device	68
Electrical cabinet or container	68
Transformer station	68
Lantern	69
Lightning pole.....	69
Wind turbine	70
Electric vehicle charging station.....	70
Gas pipe.....	70
Gas technical device.....	71
Valve.....	71
Gas cabinet or container	71
Gas station	72
Gas tank	72
Heat pipe.....	73
Heat technical device.....	73
Valve.....	73
Telecommunication cable	74
Telecommunication technical device.....	74
Telecommunication cabinet or container.....	75
Telecommunication tower.....	75
Telecommunication pole	76
Special cable.....	76
Special network's technical device	77
Unidentified wire	77
Unidentified network's technical device.....	77
Technological channel.....	78

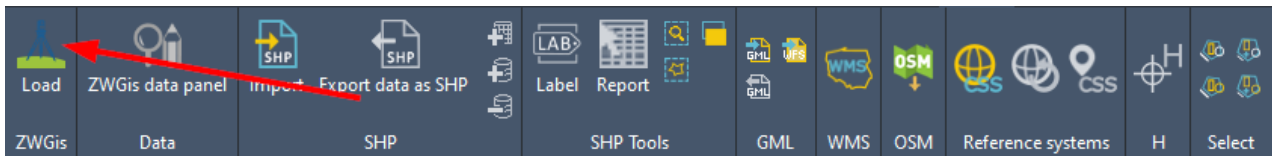
Cable protective casing	78
Underground chamber.....	79
Manhole to a chamber or sewer.....	79
Overhead wire pole.....	79
Traction pole	80
Cable support.....	80
Underground building	81
Database of topographic objects.....	81
Building in construction	81
Building	81
Overground storey	82
Underground storey.....	82
Connector.....	83
Overhang.....	83
Drive through the building.....	84
Different type of block	84
Terrace	84
Porch	85
Vestibule	85
Stairs.....	86
Support associated with a building.....	86
Ramp	86
Entrance to the underground	87
Ramp for disabled people	87
Cooling tower.....	88
Industrial chimney.....	88
Water tower.....	88
Fire tower.....	89
Mine shaft tower.....	89
Observation tower	90
Tank or silo	90
Shed.....	90
Dumpster	91
Figure, cross	91
Fountain	92
Statue	92
Monumental ruin	92
Retaining wall.....	93
Support.....	93

Different building	93
Permanent fence.....	94
Gate.....	94
Wicket	95
Roadway.....	95
Curb.....	95
Pavement	96
Bike lane.....	96
Paved area.....	96
Roadside ditch.....	97
Stairs in the communication route	97
Bridge	98
Culvert.....	98
Overpass.....	98
Wharf	99
Protective barrier	99
Ramp	Błąd! Nie zdefiniowano zakładki.
Acoustic screen	99
Track.....	100
Platform	100
Ramp	101
Cableway.....	101
Different communication object.....	102
Forest area	102
Tree or bush cover	102
Graveyard.....	103
Lawn.....	103
Deciduous tree	104
Conifer.....	104
Different land development facility	104
Outdoor pool.....	105
Different sport facility	105
Sports square	105
Playground	106
Ski lift.....	106
Flowing water.....	107
Flood embankment.....	107
Still water	107
Drainage ditch.....	108

Weir.....	108
Floodgate	109
Causeway	109
Dam.....	110
Spur	110
Different object related to water.....	110
Pier	111
Reinforced slope	111
Unreinforced slope	111
Natural picket.....	112
Artificial picket	112

Load

In order to load ZWCAD faster, the application isn't active at all time. If you want to use the application during your project, please use this function to load its content into the ZWCAD. You can also run ZWCAD with ZWGeo by opening it from the desktop's icon.



Gis data panel

With this command you can turn on the Gis data panel on.



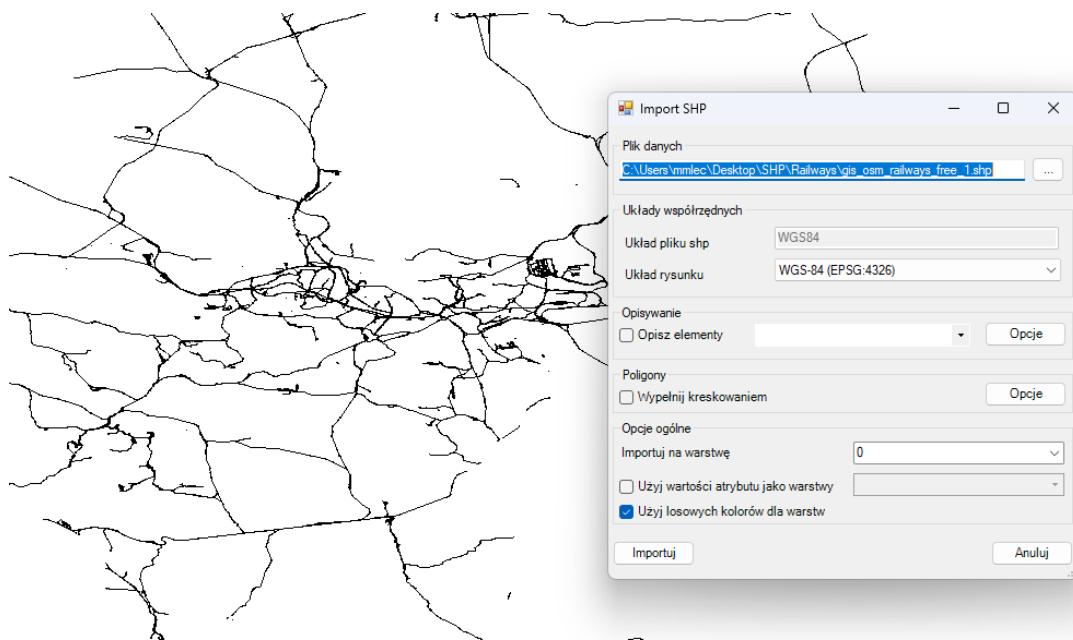
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Import/Export

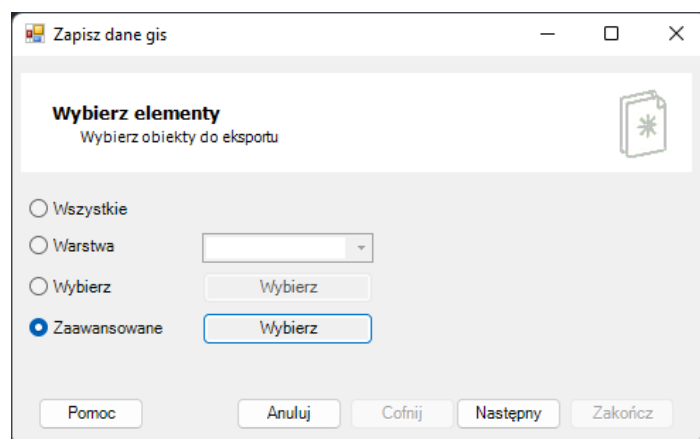
Import SHP

With this tool you can import .shp file to the drawing. Run the command, choose a file and click Import. You can also label with one category of the file or fill with hatch.

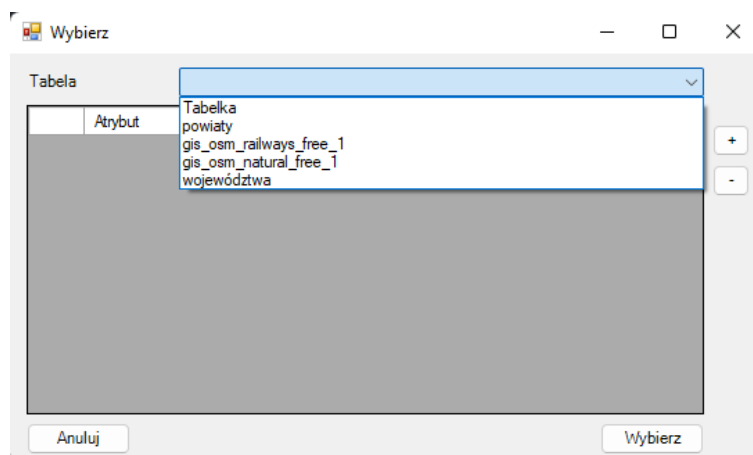


Export SHP

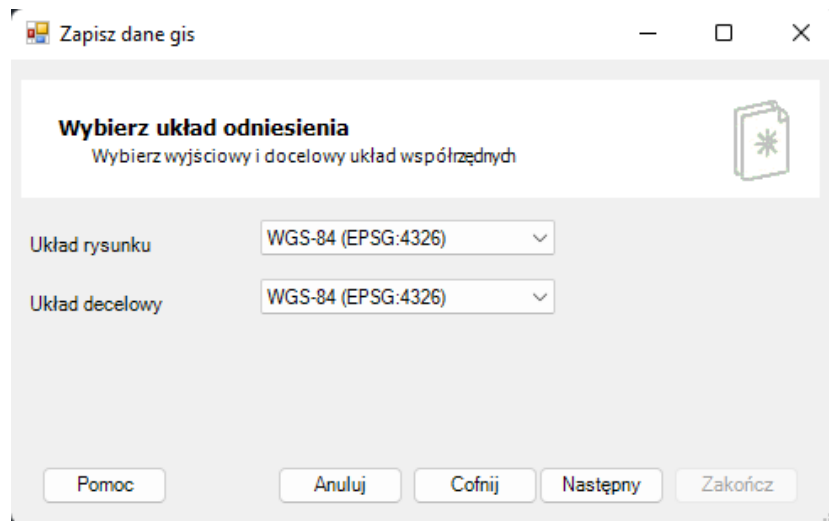
With this function you can export elements of the project with set values. Run the command so the window will pop out:



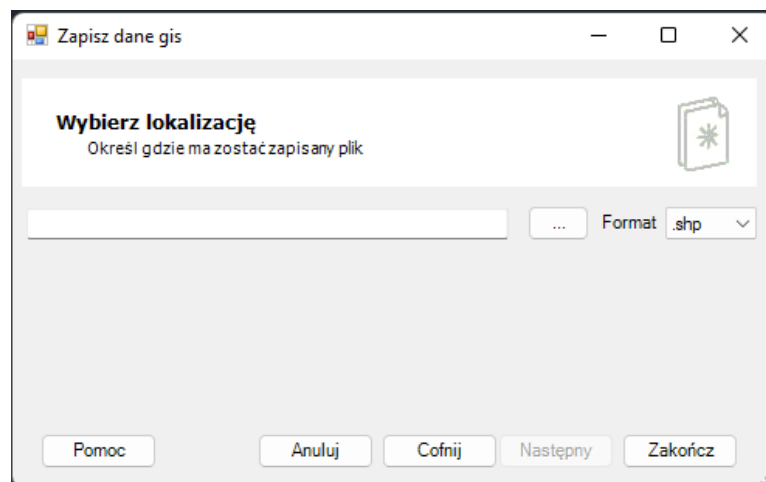
You can choose to export all, one layer, selected elements or one table.



In next window you should choose a reference systems to save to.



With last window, all there is to do is choose a location of the file to be saved in.

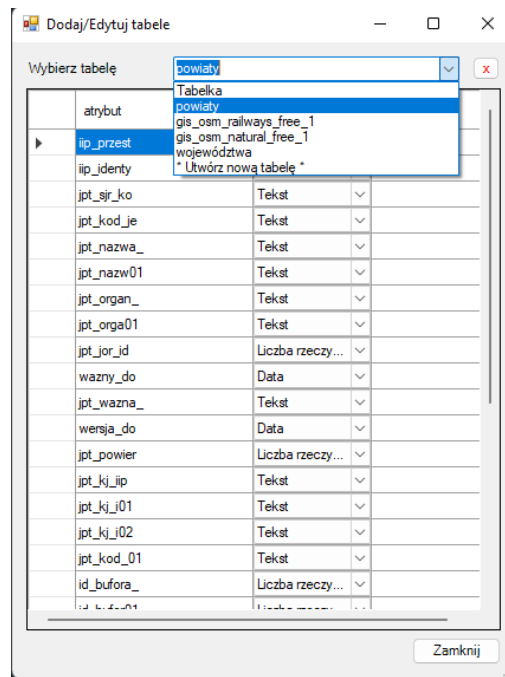


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Data: Table edit

You can use this function to create or edit a table, that is used to label objects in your drawing.

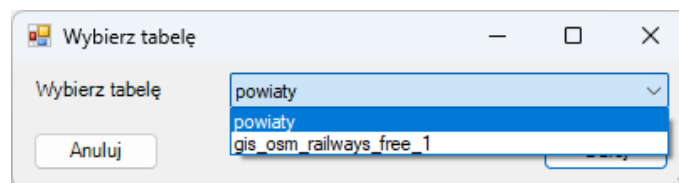


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Data: Add data

This function allows you to add a point or polyline to a table. After running the command, just point at proper table and object.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Data: Remove data

You can use this command to remove any element off the table. Run the function, then select proper elements and confirm with Enter.

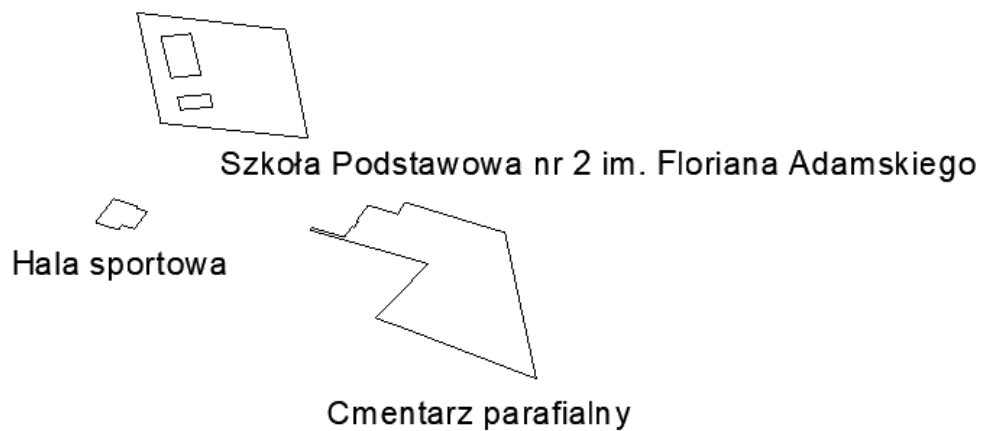
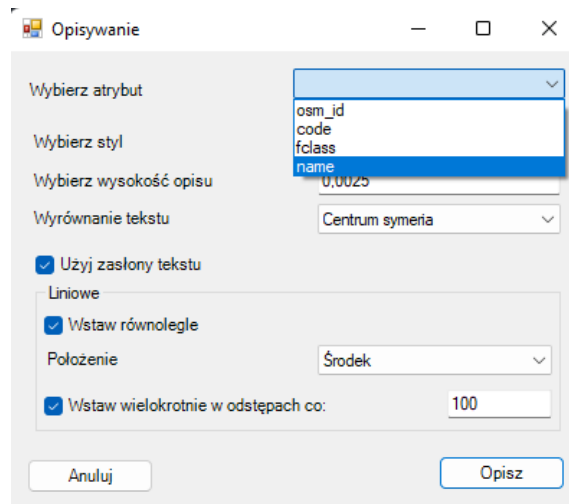
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Tools

Label

Label function is for inserting a description of a point that is available for it. After running the command, select the objects and choose the attribute.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Report

The Report command creates an editable table in a drawing. You need to select the elements you want to be placed and confirm with Enter.

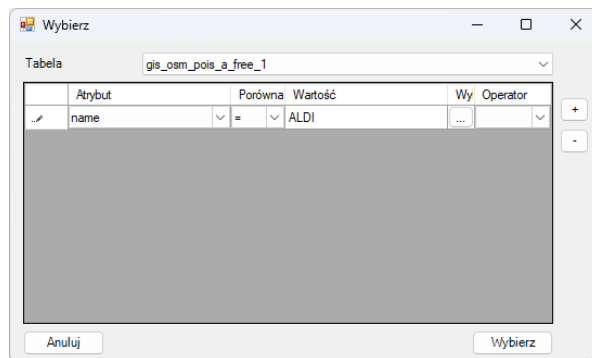
gis_osm_pois_a_free_1			
osm_id	code	fclass	name
770396316	2083	kindergarten	Przedszkole Miejskie nr 27
747454371	2083	kindergarten	Przedszkole Akademia Kolorowych Podróż
700129963	2082	school	Szkoła Podstawowa nr 17
549207655	2744	theme_park	Centrum Rozrywki Sosnowiec
549207655	2251	sports_centre	Centrum Rozrywki Sosnowiec
469455864	2541	car_dealership	Skoda Auto Ślówka Sosnowiec
427792938	2950	to_wer	Dawna wieża transformatora
398213757	2204	park	Park Sielecki
398213756	2204	park	Park Sielecki
248842594	2501	supermarket	ALDI
193684679	2404	guesthouse	Pensjonat Sielec
193684541	2402	motel	Okraglak Residence
189308365	2251	sports_centre	Centrum wspinaczkowe Sport Poziom 450
180841320	2501	supermarket	Biedronka
180816934	2012	community_centre	Sosnowieckie Centrum Organizacji Pozarządowych
133017945	2251	sports_centre	MOSiR Kąpielisko Sielec
133002047	2256	stadium	Stadion Żmowy
133002039	2721	attraction	Zamek Sielecki
133002039	2731	castle	Zamek Sielecki
133002039	2014	arts_centre	Zamek Sielecki
70083988	2504	mall	Centrum Handlowe Plejada Sosnowiec

The function is available in ZWGeo 2025:

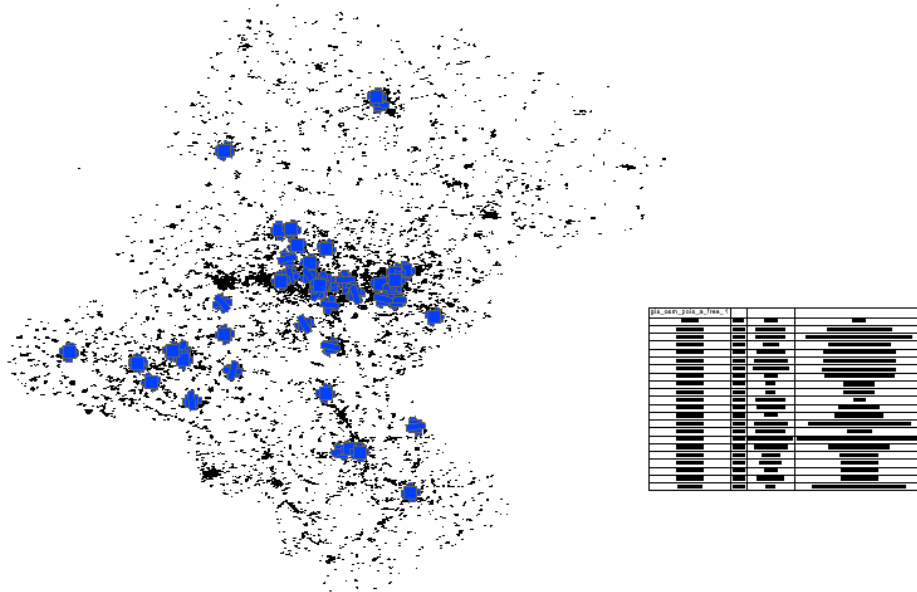
[ZWGeo 2025](#)

Select

You can use the Select function in order to select elements from one group. Just turn on the command and select a group from your ZWGeo table. All of the objects in this group will be selected.

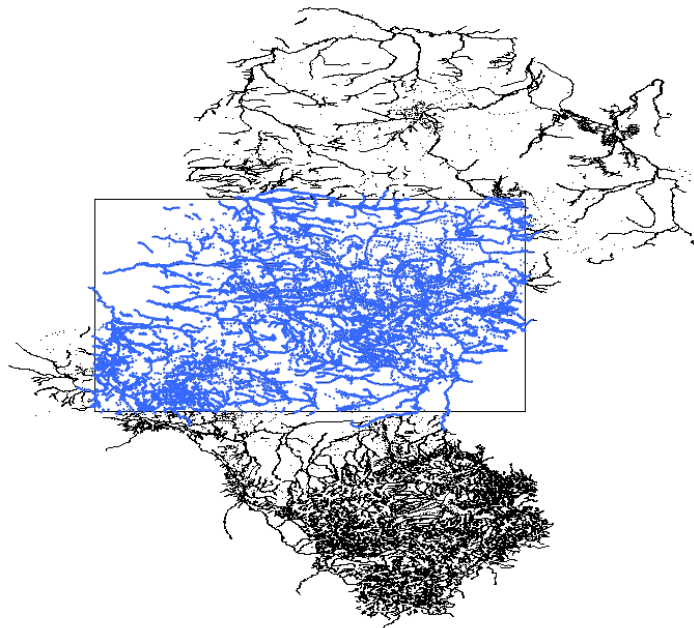


In this example, all ALDI buildings in the area were selected:



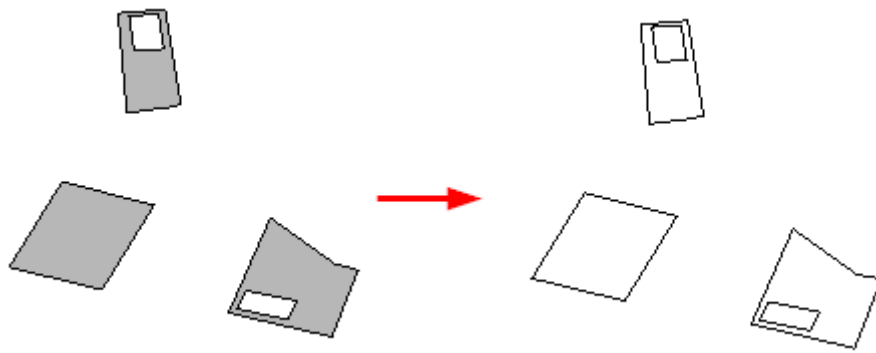
Select by area

You can use this function to select points or lines inside an area. Run the command, select the rectangular frame and all the objects inside will be selected.



Turn on/off fill

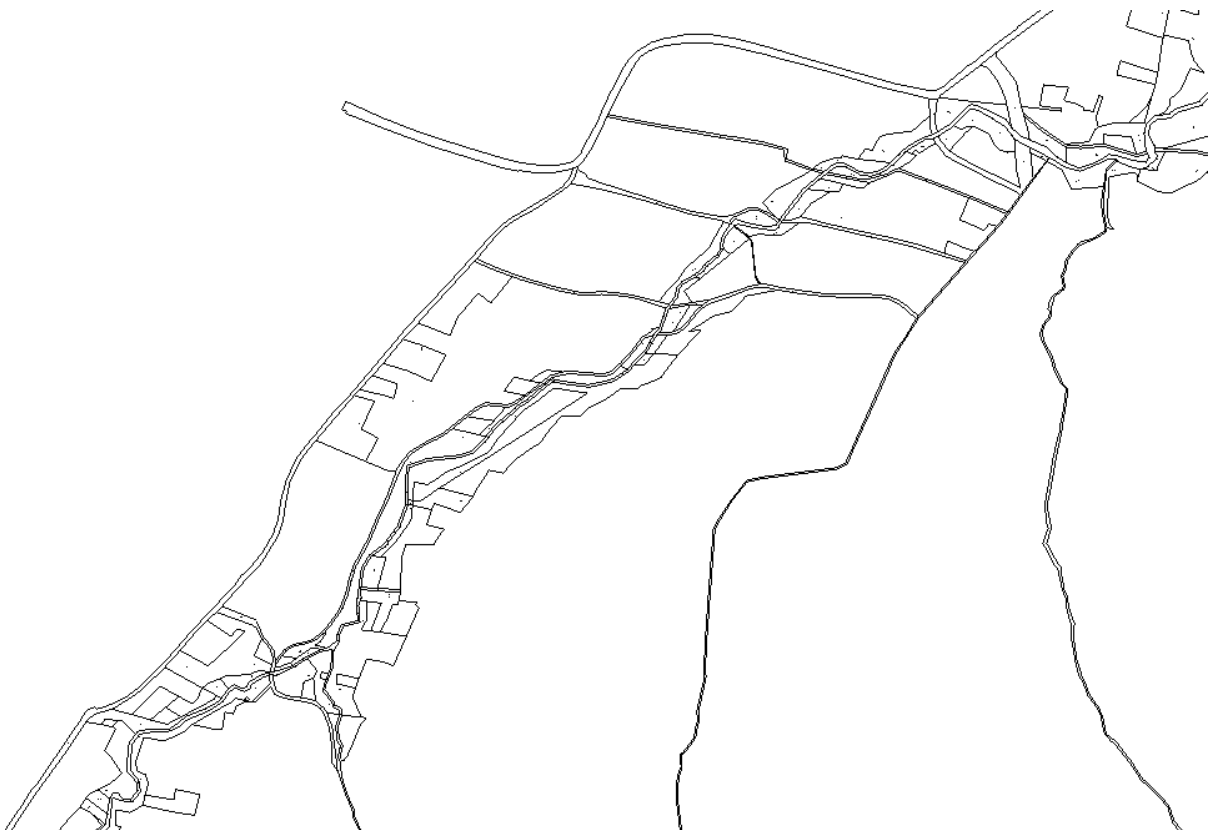
You can turn filling of objects on or off with this command.



GML

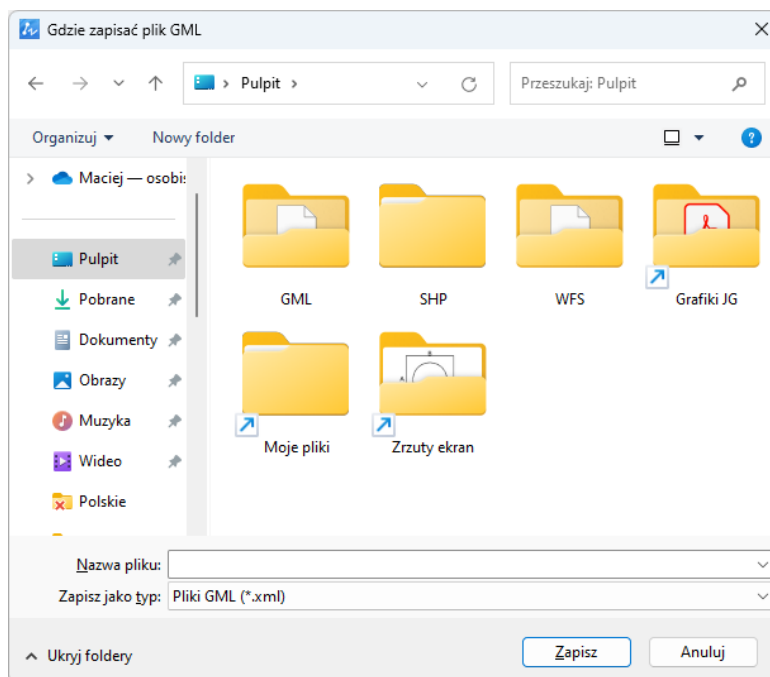
GML Import

This function can import a GML file into a drawing.



GML Export

This function can be used to export a piece of a drawing into GML file. You need to start the command, and then select needed elements, then press Enter.

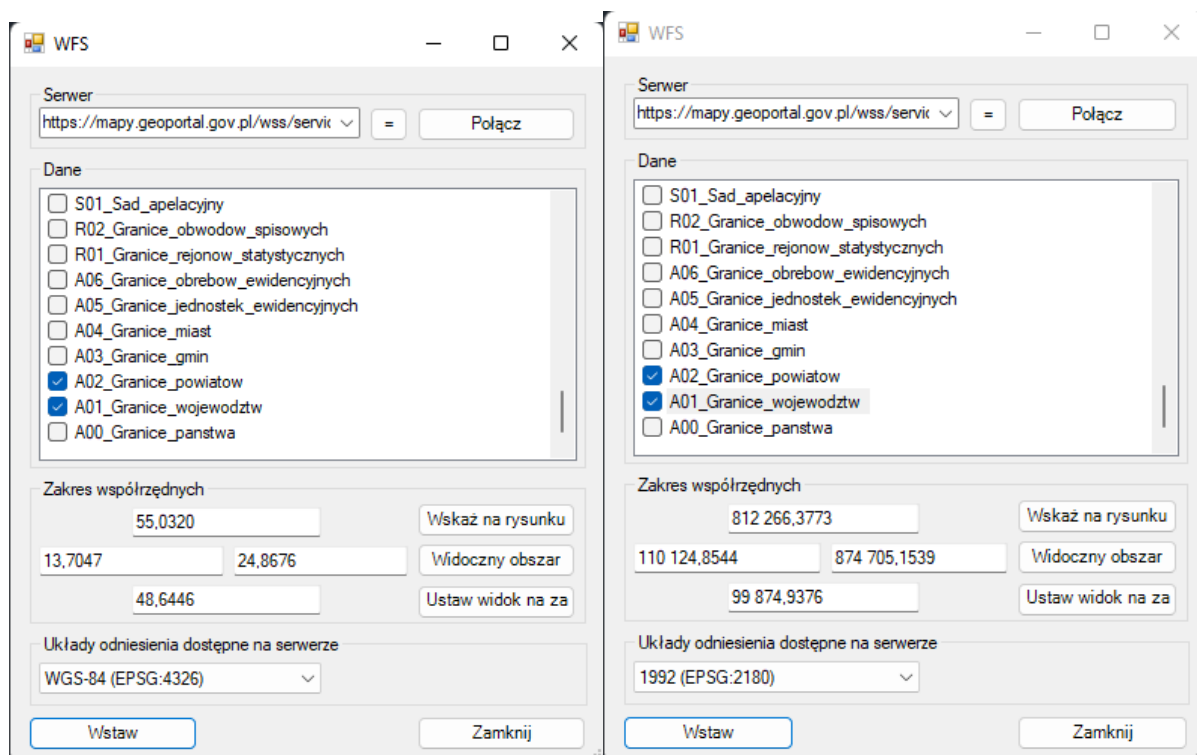


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

WFS Import

You can use this function to insert WFS data from a server directly into your drawing. In order to do so, you need to copy an address of a service to the top box and connect.



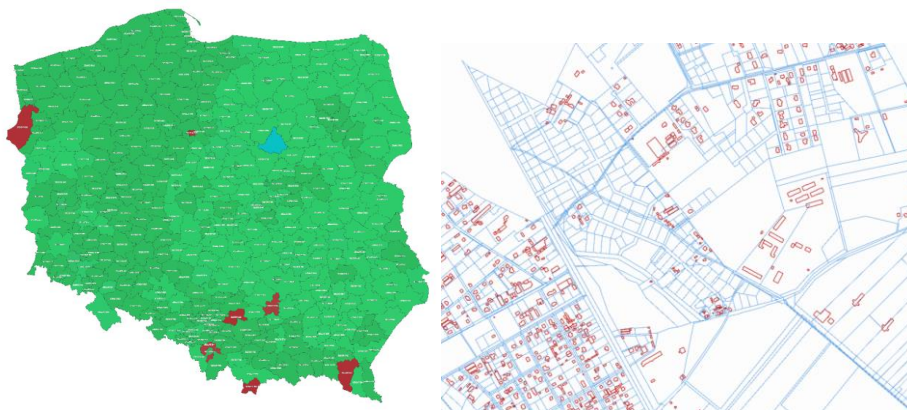
Here is the effect of importing WFS map with Polish borders.



WMS

WMS_Import

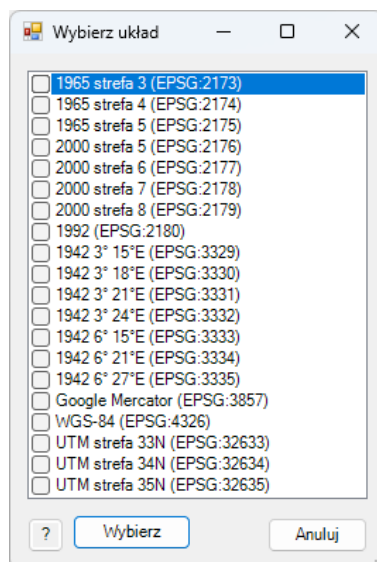
With this function you can import WMS map from Polish servers. You can choose a server and decide which features are to be imported.



Reference systems

Set reference systems

You can set a reference system in your drawing with this command. The window will pop out, in which you can choose the system you need.



Transform drawing

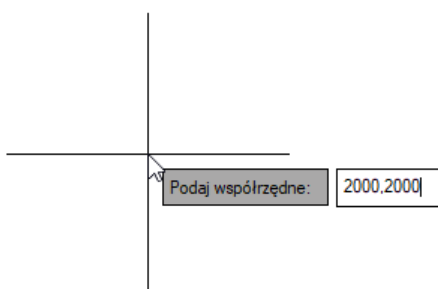
With this function you can convert reference system in your drawing into another geodetic reference system. After executing the command and choosing a new system, a copy of it will be saved with date and time, and the current drawing will be converted into the new reference system.

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Mark coordinate

You can use Mark coordinate function to insert a point into your drawing from another reference system. The system will ask for a system and then for coordinates to insert.



Here is an example of inserted point, labelled in two reference systems:

~~2000(15): 2000,2000~~
 2000(24): 2400,16619297023,1472250,46303924

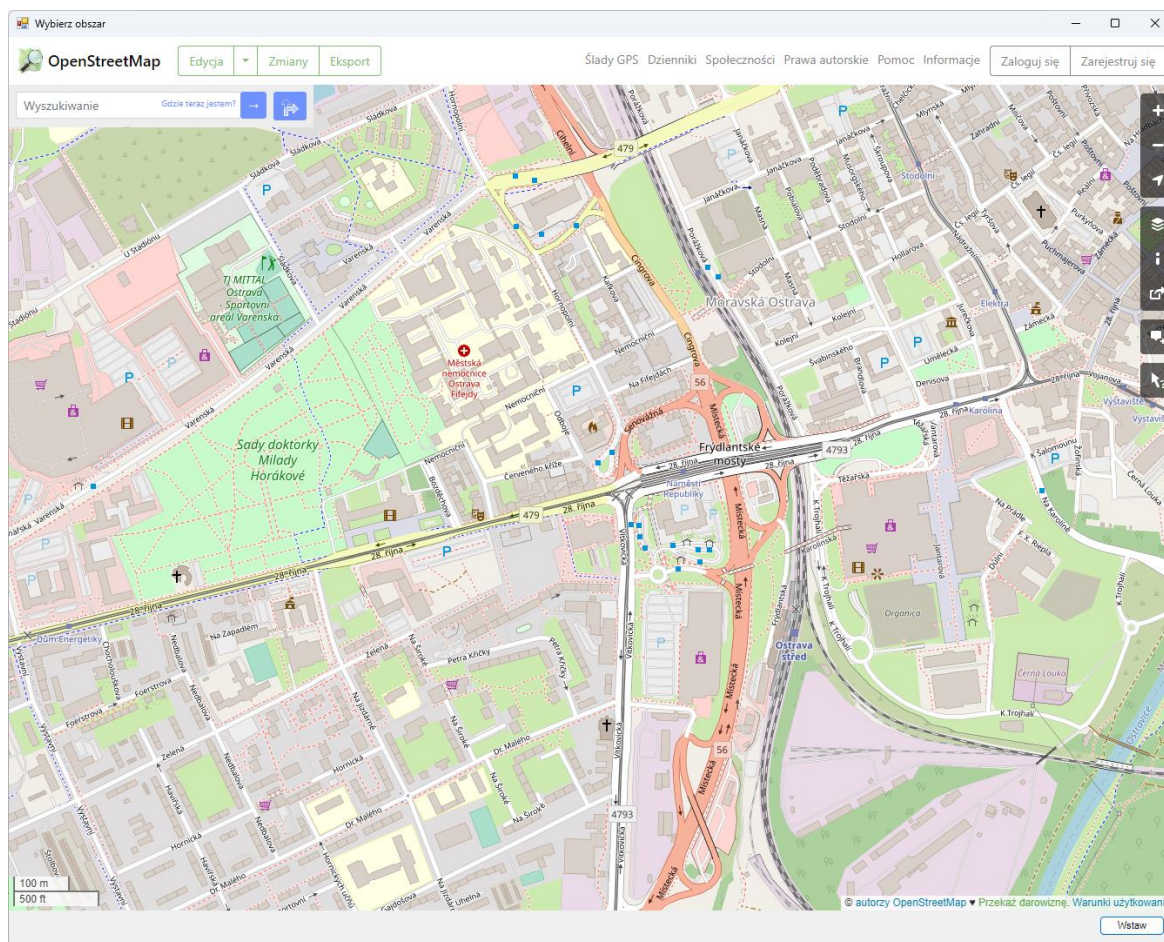
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

OSM

OpenStreetMap

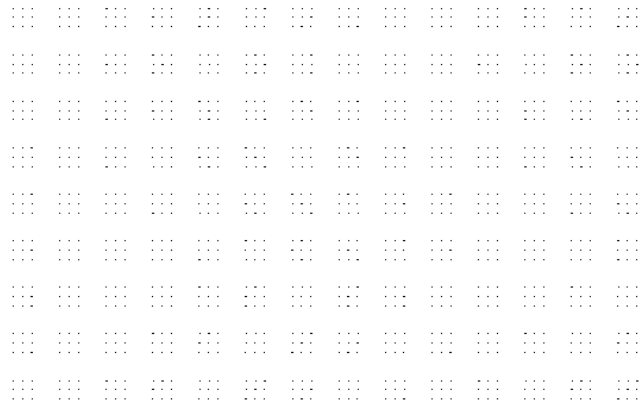
This function enables you to insert a map as a raster image from any place using OpenStreetMaps. After running the command, open a map you want to be placed and click Insert. You may have to choose a reference system as well.



H

H

With this function you can easily set up points or blocks in the drawing, or copy them to fill an area. After running the command, choose a point or a block to be copied, then start inserting them. You can also type A as Area in command tab to fill a rectangular area with your objects. You can also type D as Density to control distance between elements.



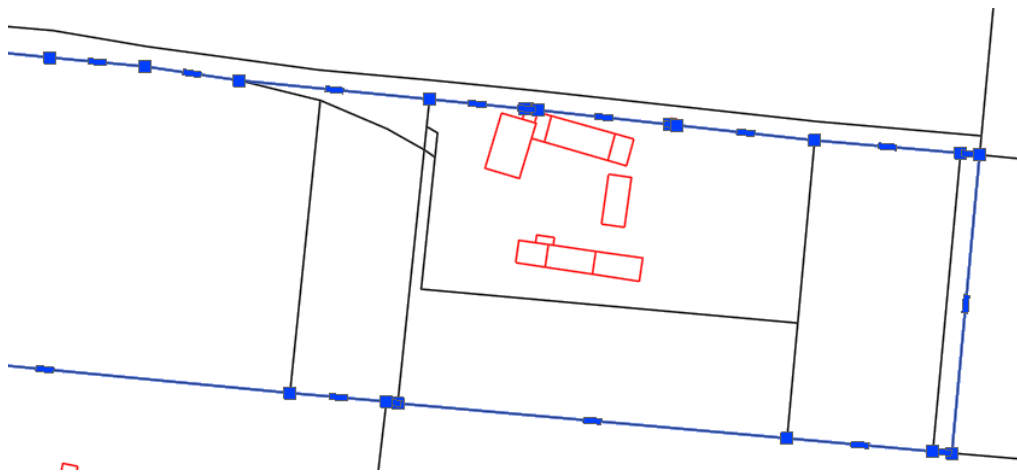
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Selection

Select inside polyline

This function allows all objects that are inside the selected polyline but not adjacent to it to be selected.

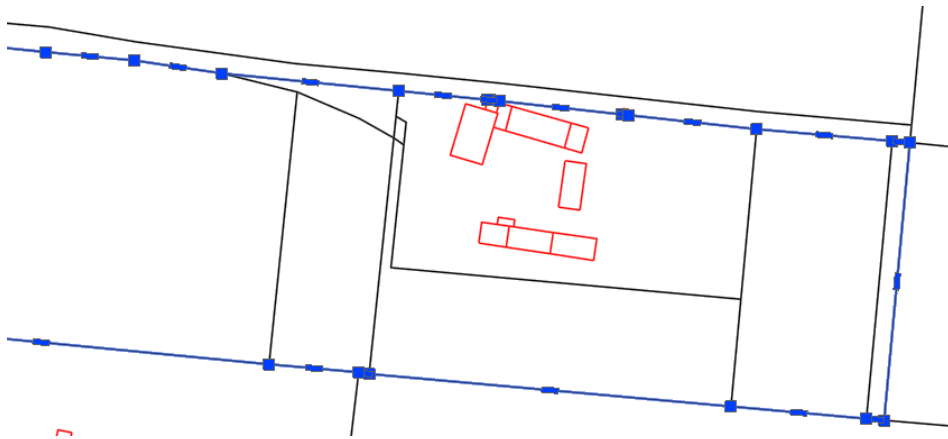


Here is the effect of the command after choosing the selected polyline.



Select crossing polyline

This function allows all objects that are inside the selected polyline but also adjacent to it to be selected.

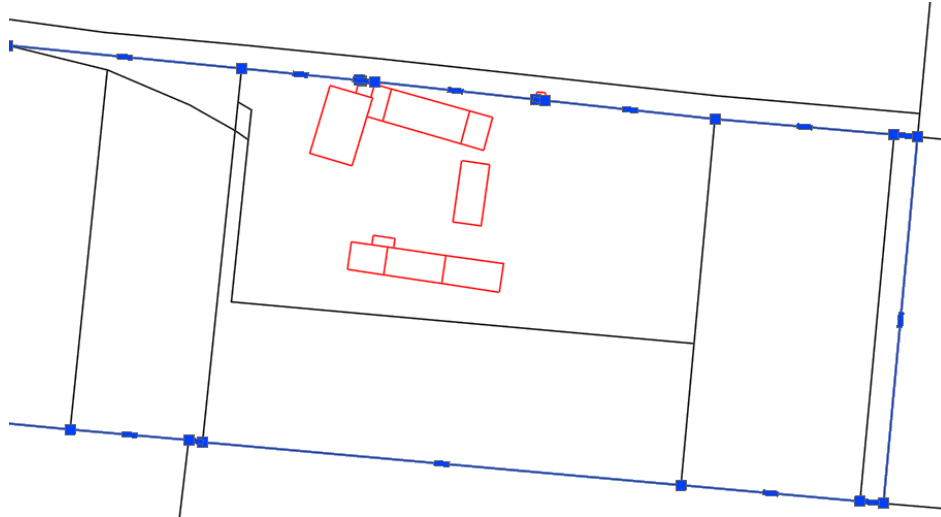


Here is the effect of the command after choosing the selected polyline.

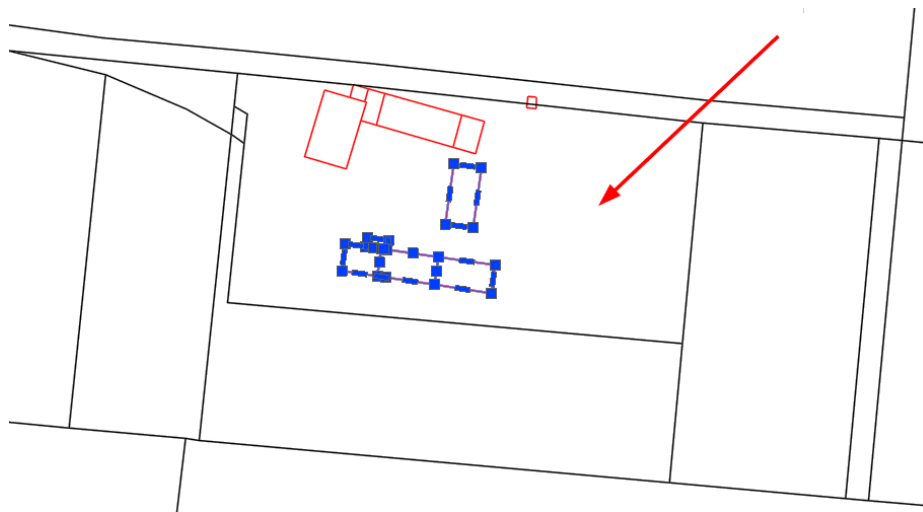


Select inside by point

This function allows all objects that are inside some enclosed area but are not adjacent to the boundary to be selected.

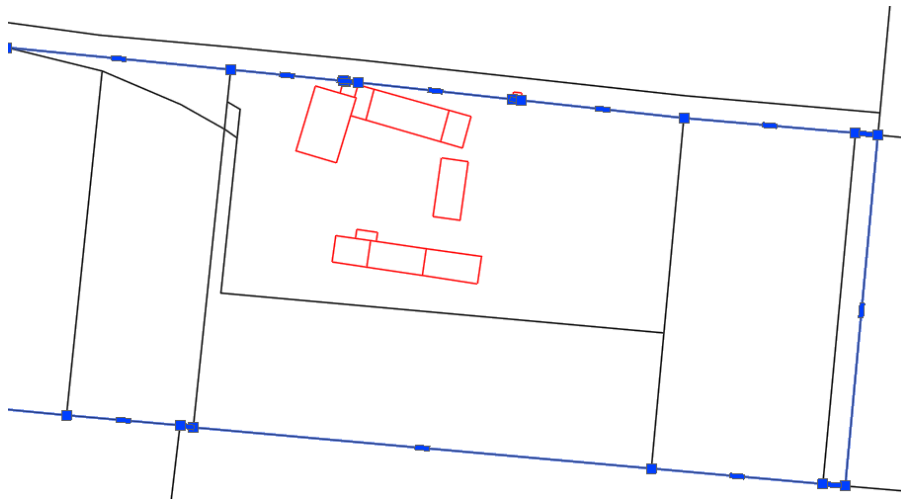


When a point inside the enclosed area is selected, the function will select all objects that are entirely within it and are not in contact with the boundary.

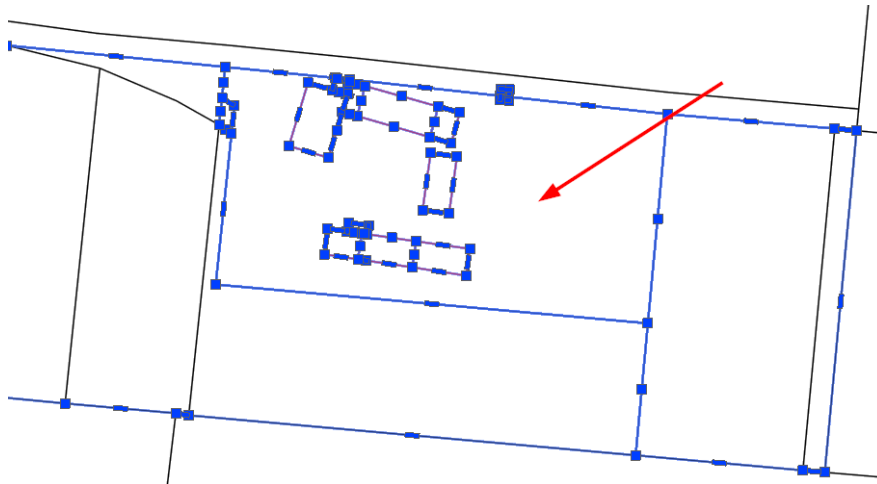


Select inside and crossing by point

This function allows all objects that are inside some enclosed area or crossing the boundary to be selected.



When a point inside the enclosed area is selected, the function will select all objects that are entirely within it and are in contact with the boundary.

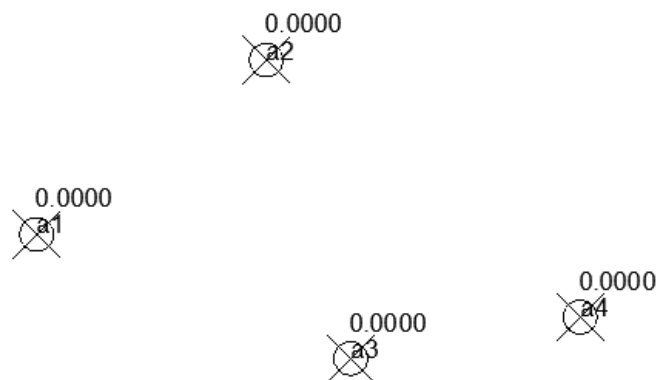


ZWGEO

Manage points

Add points

The command let user mark points by insert point entity and text containing series and number in points clicked by user. After running the command, the user will be asked to input series and start number. After that, click on the place where first point should be located, and set a symbol of this point.

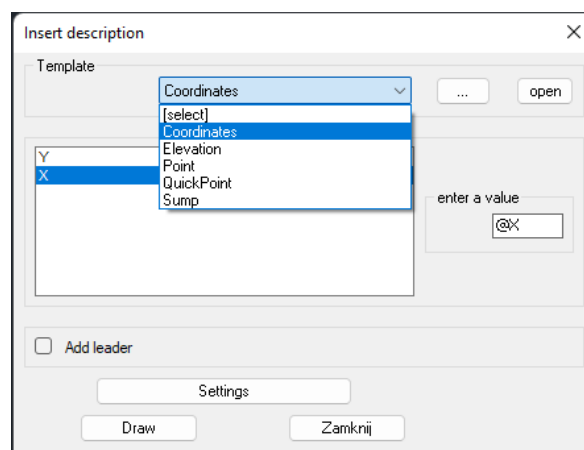


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Describe points

You can use this function to insert points based on a template. Run the command, and choose set of values from: Coordinates, Elevation, Point, Quick Point and Sump. You can then put a point into a drawing with chosen description. You can also add a leader to your point.

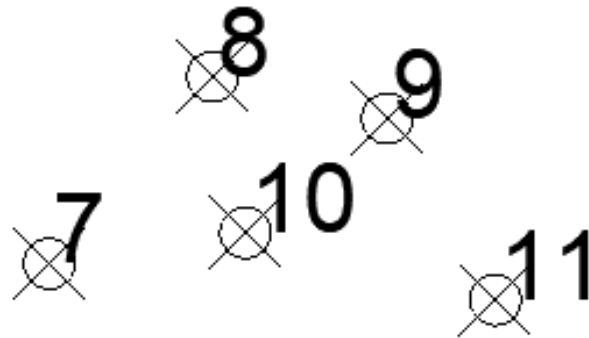


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Quick point

You can use this function to conveniently insert many points, one by one. The points will have advancing numeration. You can also edit it any time by double clicking.

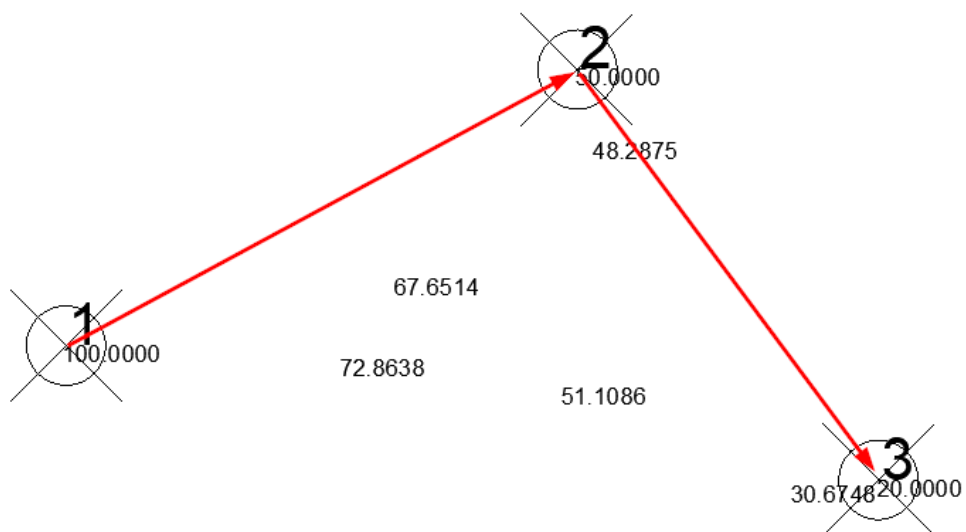


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Interpolate

This function can be used to define a plane and calculate coordinates of points in this plane. Any points that are to be interpolated must be located within boundaries of 3 lines.



- First, choose 3 points you want to be your reference point. Make sure that they have Z value set, and its different from each other.

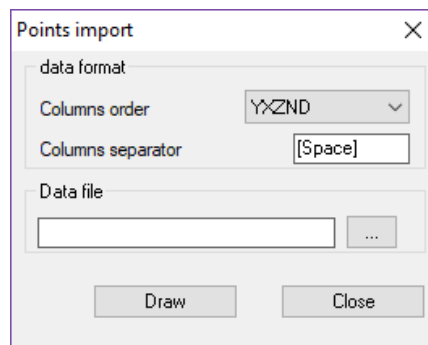
- Then you can draw a line between them, so a triangle is created, but this only makes it more readable. Make sure you have localization to point turned on, or you won't be able to catch your points.
- Run the command, and draw 2 lines between your points to make a triangle.
- Now you can click on any point within the figure, to create points with Z value, based on created plane.

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Import points

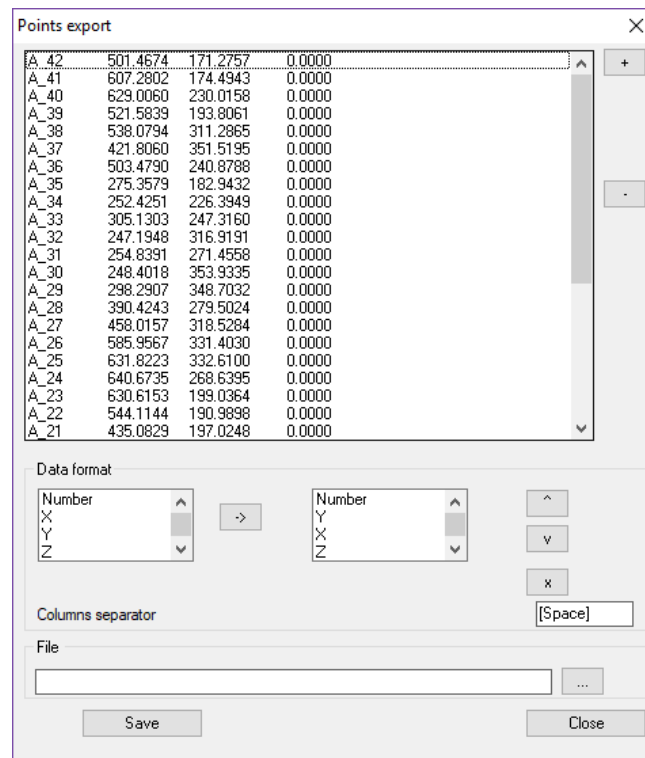
The command inserts into drawing points defined in text files. After executing the command, application will display a window:



In this window user may select format of files with data, columns order and separator of columns. Also user may select file with data. After clicking button [Draw], application will insert points, numbers and blocks of symbols if contained on a data file.

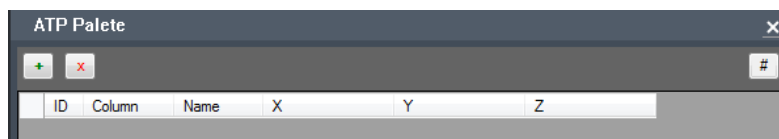
Export coordinates

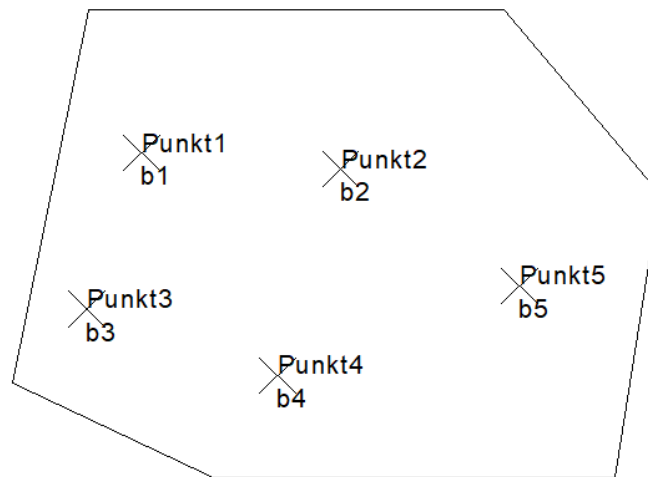
The command will export coordinates of points into text files. After executing the command, application will display window:



In this window, there is a list of points selected from drawing. If you want to select a new one, click point [+] and application will ask you to select points. You can remove them from this list by [-]. In this window you can also define format of a file, columns order and a separator. Also you must write or select a path to a file where points will be stored. After clicking [Save], points will be saved.

Table of points





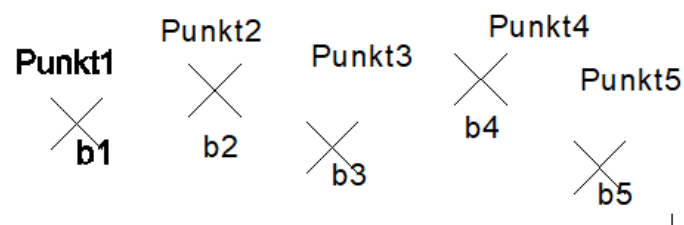
You will get the following result:

ATP Palette						
<div> <div>+</div> <div>x</div> </div>						
	ID	Znajdź	Nazwa	X	Y	Z
	3C55	[*]	ZWGEO_Pt	446,207	172,375	0,000
	3C1C	[*]	ZWGEO_Pt	370,510	144,209	0,000
	3BE3	[*]	ZWGEO_Pt	310,657	165,040	0,000
	3BAA	[*]	ZWGEO_Pt	390,251	208,936	0,000
	3B71	[*]	ZWGEO_Pt	327,967	214,038	0,000

This is the way how points have been added to the table. When changing properties in the table, the changes in the drawing are applied automatically.

	ID ▲	Znajdź	Nazwa	X	Y	Z
	3B71	[*]	ZWGEO_Pt	400,000	150,000	25,000
	3BAA	[*]	ZWGEO_Pt	390,251	208,936	0,000

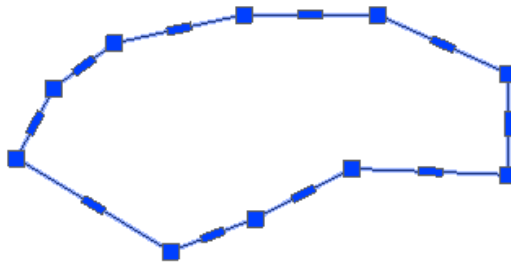
After changing coordinates of Punkt1, it will move to a different place. It is also possible to move points in the model:



Active Points Table will adjust values accordingly to their new position:

ATP Palette							
ID	Znajdź	Nazwa	X	Y	Z	NUMER	
3B71	[*]	ZWGEO_Pt	323,356	183,939	25,000	Punkt1	
3BAA	[*]	ZWGEO_Pt	359,888	192,734	0,000	Punkt2	
3BE3	[*]	ZWGEO_Pt	391,007	177,851	0,000	Punkt3	
3C1C	[*]	ZWGEO_Pt	430,245	195,778	0,000	Punkt4	
3C55	[*]	ZWGEO_Pt	461,628	172,572	0,000	Punkt5	

Once a selected polyline is added into the table, it will display all information regarding coordinates of polyline vertexes, its area and perimeter.

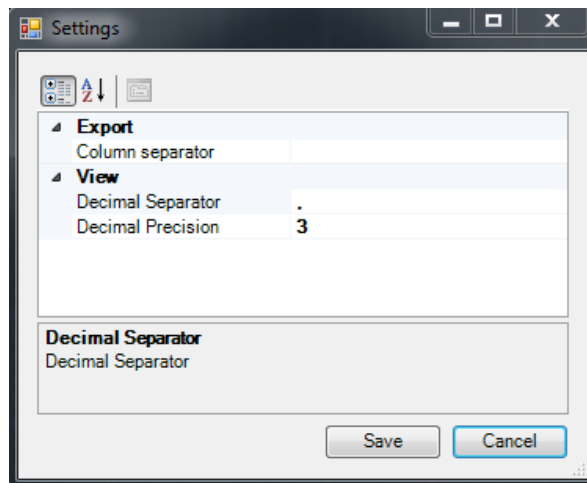


ATP							
	Znaj	Nazwa	X	Y	Z	Powierzchnia	Długość
>	[*]	Pollinia				8323,573	395,411
			820,572	446,304	0,000		
			863,129	455,687	0,000		
			907,027	455,687	0,000		
			950,255	436,251	0,000		
			950,255	403,076	0,000		
			898,650	405,087	0,000		
			866,816	388,667	0,000		
			839,002	377,944	0,000		
			788,402	408,438	0,000		
			800,466	431,560	0,000		
			820,572	446,304	0,000		

Any changes to polyline vertexes will be automatically applied within the table. Active Points Table handles:

- points,
- group of objects,
- attribute blocks,
- polylines.

To access settings, click on this icon or type in the command ATP_SETTINGS. Following parameters can be adjusted:



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Report points as table

You can use this command to make a table of points. Run the function, select points you want in your table, and confirm with Enter. Then place it in your drawing.

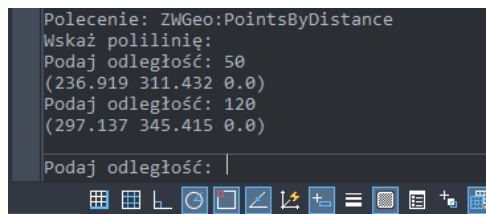
Zestawienie współrzędnych punktów			
Współrzędna X	Współrzędna Y	Współrzędna Z	Numer
322.813	185.3564	0	a1
402.6712	245.874	0	a2
431.9942	142.3078	0	a3
511.8524	156.6573	0	a4
739.0316	204.0972	100	1
814.6298	244.8452	50	2
859.1309	184.2594	20	3
803.9066	129.0351	0	4
896.6619	125.8182	0	5
942.2353	239.4836	0	6
975.6741	175.2768	0	7
990.3674	192.1299	0	8
1006.0752	188.3666	0	9
993.3126	178.0584	0	10
1015.8107	172.0044	0	11

The function is available in ZWGeo 2025:

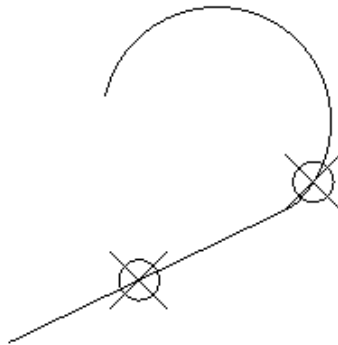
[ZWGeo 2025](#)

Points by distance

With this function you can insert points on a polyline. You need to run the command, and choose a polyline. Command line will prompt for a distance:



When you type the distance, a point will be made and its coordinates will be listed. You can continue inserting points or finish with Enter.



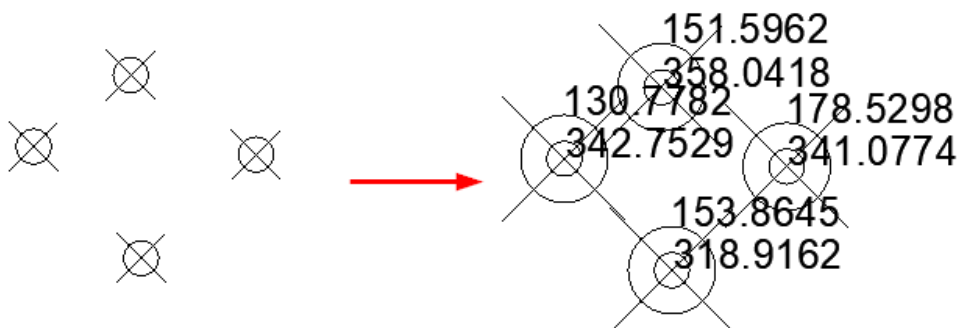
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Manage lines

Describe objects

With this function, you can easily add values to points in your drawing. You may press S to go for setting, and then you can choose a set of values to input, for example Coordinates, Point etc.

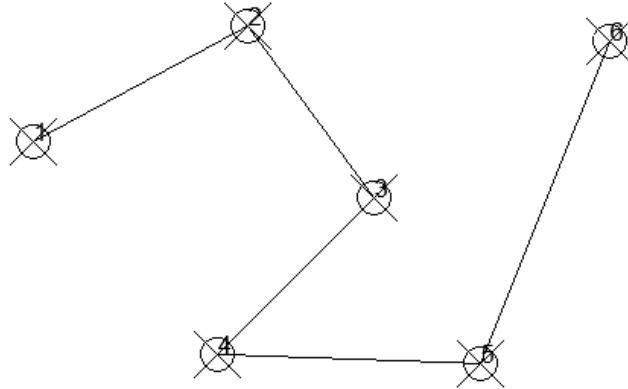


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Draw by numbers

When using this function, you can draw a line through each point of your choosing. Run the command, and type points you want to be connected. You can divide points in order by a comma (,) or select more of them one by one for example 5-15.

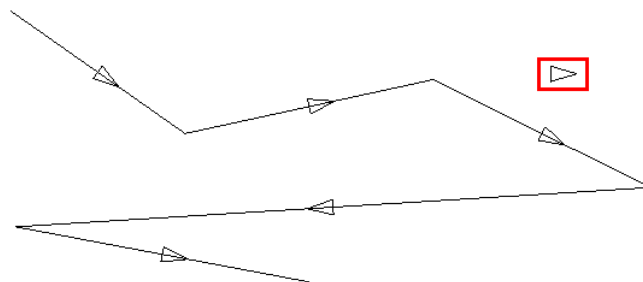


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Mark middle segment of the polyline

With this function you can put a block into the middle of each section of polylines. Run the command, then click on a block that will be put in the middle of a line, and choose polylines. Confirm with Enter.

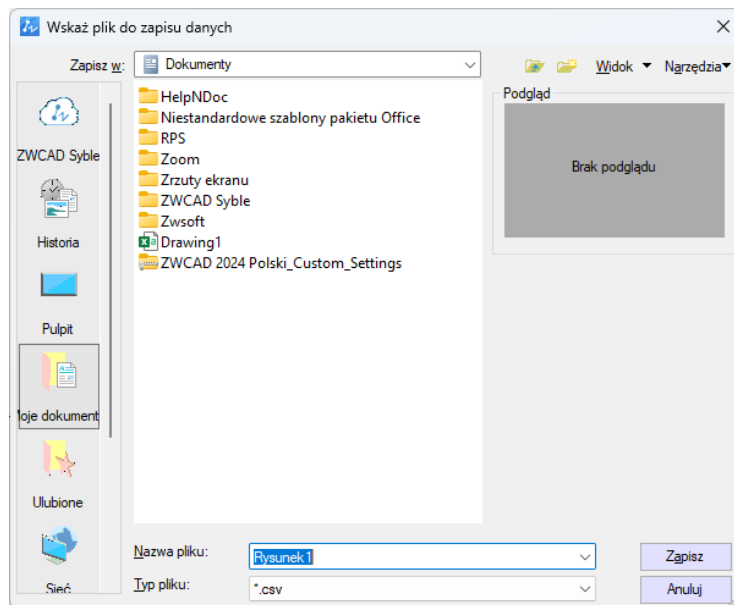


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Export polyline coordinates

In order to export coordinates of polyline's points you can use this function. The program will ask for location and a file to save, in which coordinates will be saved. You can save it in .csv or .txt.



Here is how it looks after the process:

	A	B	C
1	X	Y	Z
2	1274.9220	183.3887	0.0000
3	1351.0564	129.7730	0.0000
4	1459.3602	153.3639	0.0000
5	1554.2601	106.1820	0.0000
6	1277.0666	89.0250	0.0000
7	1405.2083	64.8979	0.0000

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Polyline coordinates to a table

This function makes a table with coordinates of a chosen polyline. Just select polylines you want to be labelled and confirm with Enter.

Zestawienie punktów		
Pozycja X	Pozycja Y	Pozycja Z
1405.2083	64.8979	0
1277.0666	89.025	0
1554.2601	106.182	0
1459.3602	153.3639	0
1351.0564	129.773	0
1274.922	183.3887	0

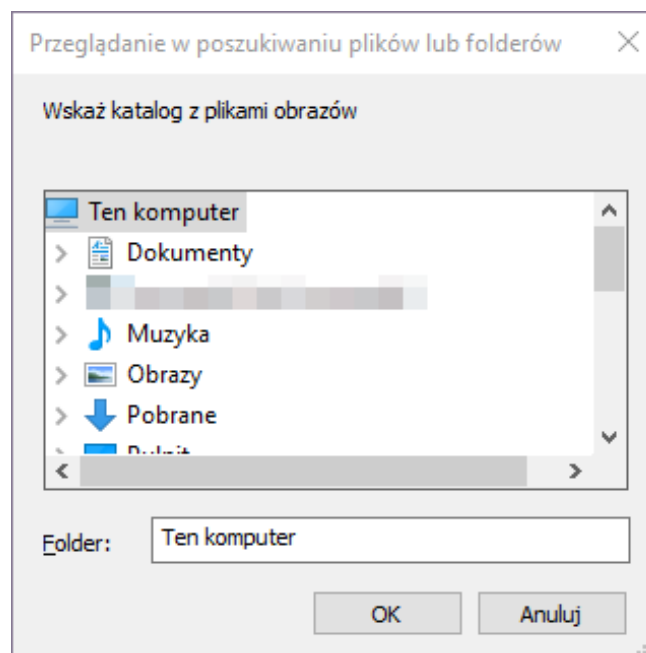
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Raster images

Insert all rasters from a selected folder

By this command you can export values of texts into external text file. After running the command, go to select Texts or MTexts and choose a path to text file where data will be stored.

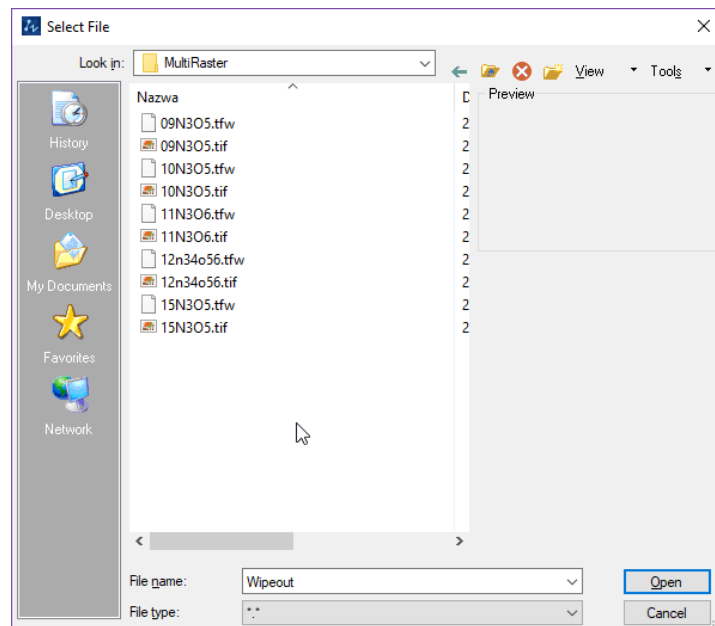


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Insert multiple raster files

The function will let you select many raster images, and insert it automatically using positioning file.



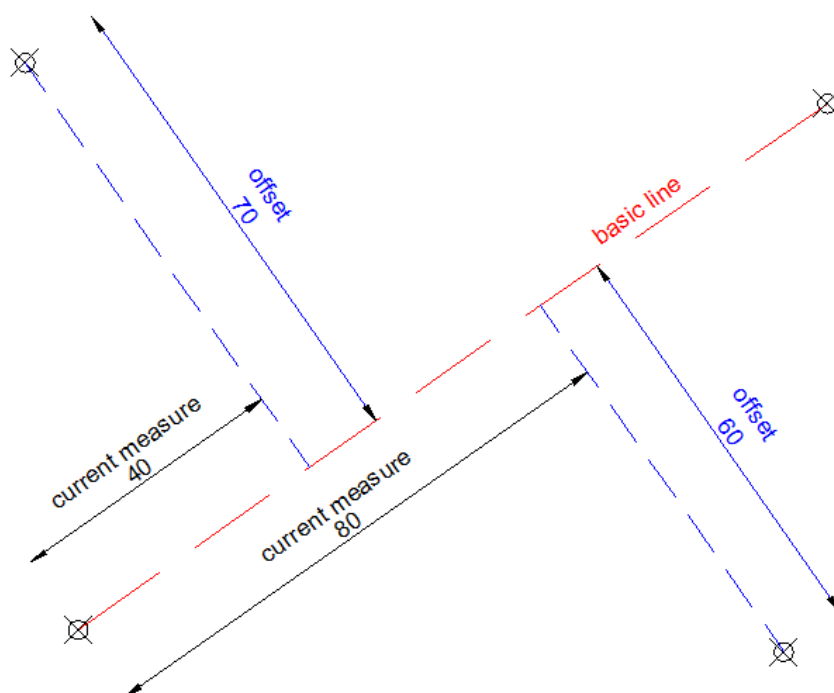
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Tools

Rectangular offset

Offsets square is a function used to measure the details of a terrain. After activating the function, indicate two points on the base line. Then please specify the distance and offset. The location corresponding to the entered value will be inserted point.

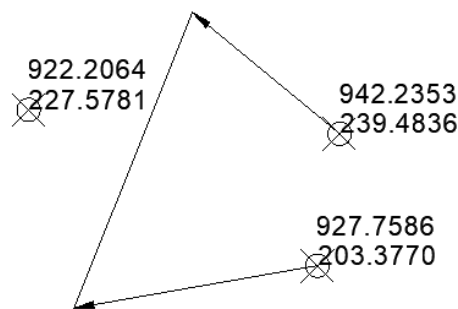


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Insert coordinate description

By this command you can mark points in project by describing coordinates X and Y. The application will ask you to pick a point and insert description block in the chosen point. If you click next points, there will be leader connecting first click point with the rest of points, and description block will be always on last picked point.

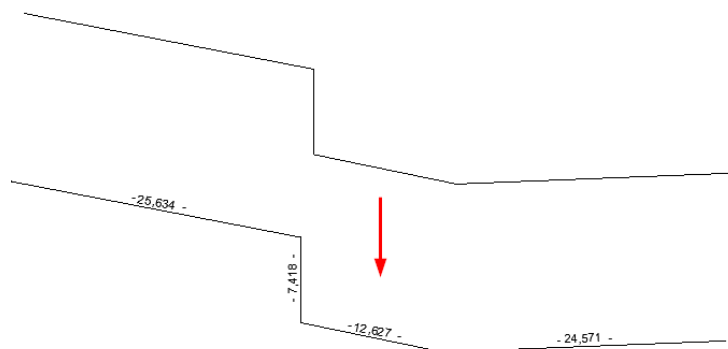


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Front measure

Front measure can be used to add lengths of certain segments such as cabling or pipes.

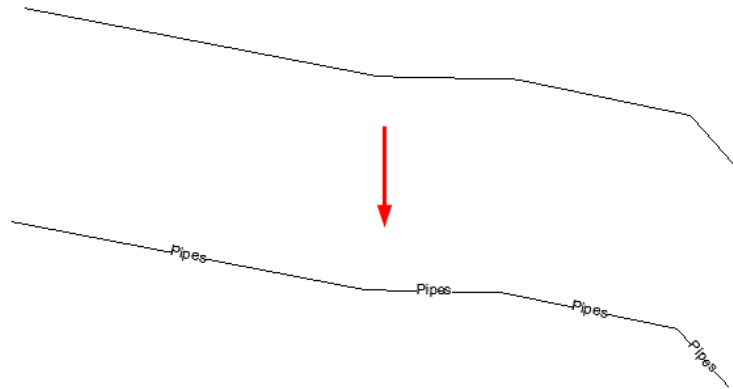


The function is available in ZWGeo 2025:

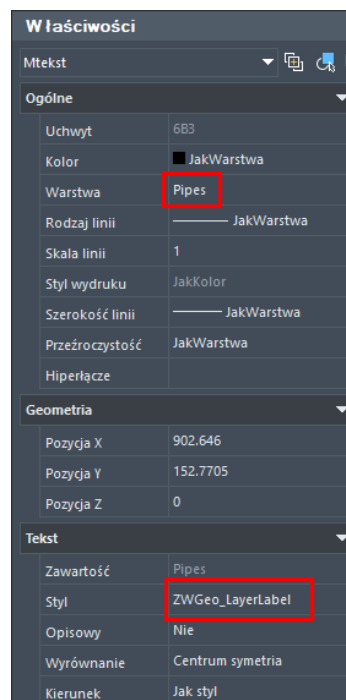
[ZWGeo 2025](#)

Describe conduit

After running the layer label command, you'll have to select polylines and they'll get labelled with a proper layer name in the middle of each segment:



Layer label adds a description to each segment of a selected polyline as well as the name of the layer.



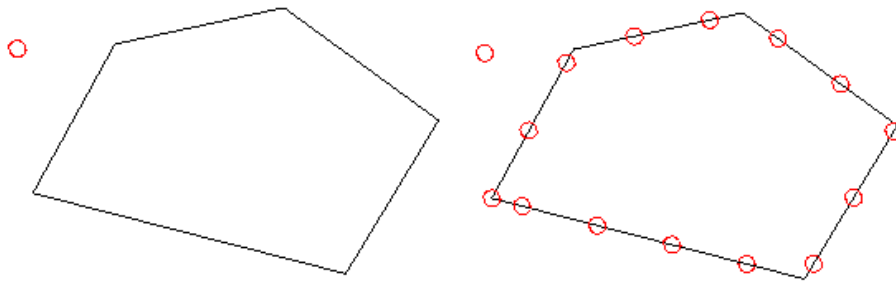
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Mark a boundary

Draw a fence by multiple copy of selected object along selected path. To draw such fence you need to:

1. Draw symbol which should be copied
2. Draw axis of fence (lines or polylines).
3. Run the command.
4. Select a symbol to copy.
5. Pick a base point.
6. Write a distance between symbols or click two points.
7. Select fence objects, the same drawn on point 2.



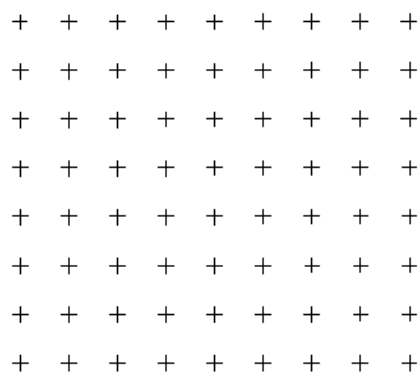
On the picture above you can see project before and after using the command.

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Insert a cross grid

The command will draw an array of crosses in range – windows selected by two opposite points. In the command bar you have to specify the distance between cross marks.

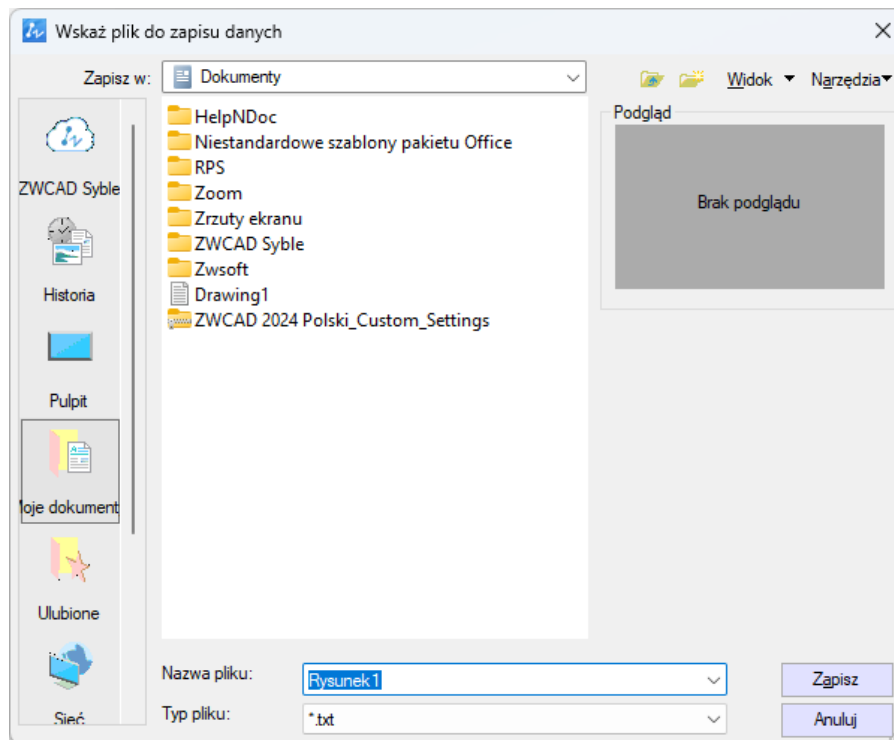


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Save text in txt file

By this command you can export values of texts into external text file. After running the command, go to select Texts or MTexts and choose a path to text file where data will be stored.

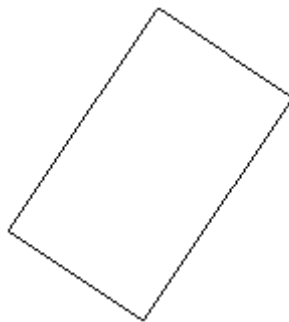


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Rectangle

This function makes drawing rectangles at any angle. Run the command, choose an angle and height/width.



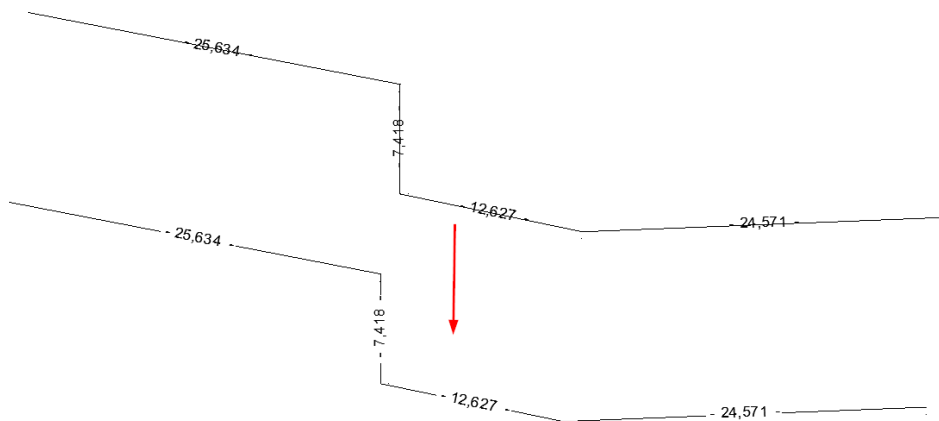
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

View

Cover elements with text

This command helps you make drawing more readable, by covering objects under MText by wipeout. All you need to do is run the command and select multiline text entity. Everything under this MText will not be visible, but it will remain there.

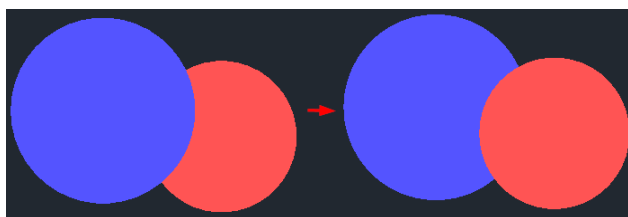


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Bring forward

Just run the command and select those entities, which should be over the other ones, and then select one entity which should be at the bottom of draw order.

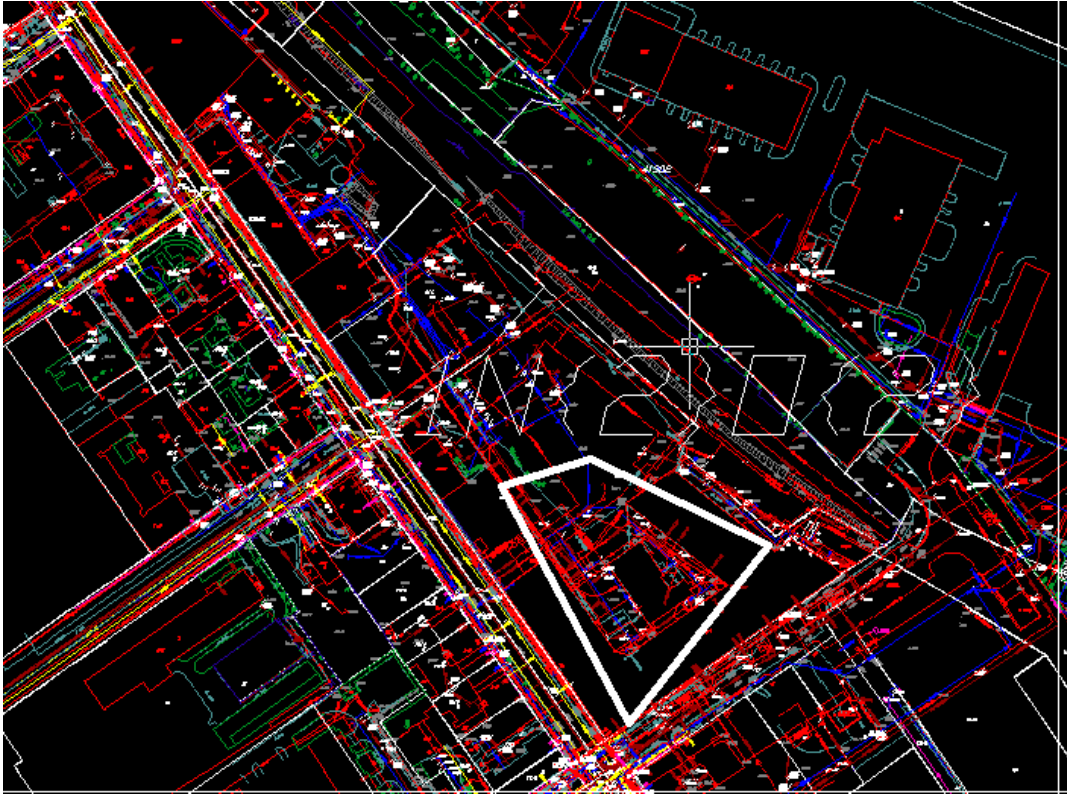


The function is available in ZWGeo 2025:

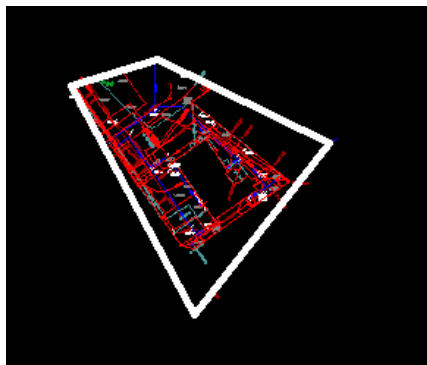
[ZWGeo 2025](#)

Trim Map

Maps can be cut by using a single button. Select an area outside of a closed polygon. Once the area to cut is selected (LINE, POLYLINE, ARC, CIRCLE, ELLIPSIS, IMAGE or TEXT), and there is something outside of the cut line, the effect will be similar to the one presented below:



This functionality makes work much smoother and easier. Cutting maps is considered as a work improvement since at the end of the design process, almost always maps require manual cutting, as the terrain is too large and, as confirmed by many users, this part of work is the most time consuming one when working on maps.



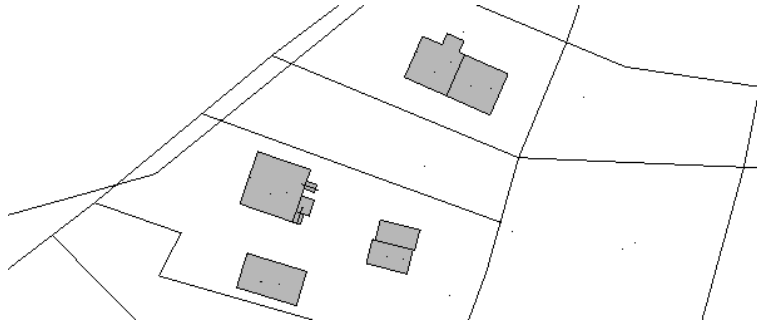
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

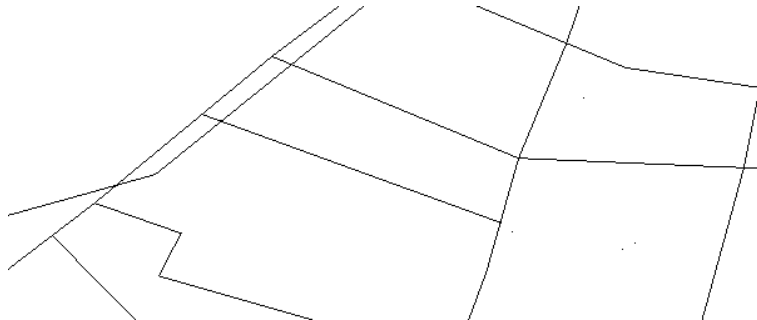
Visibility

After running the command, indicate items that will be in one of the first group of objects. After selecting the items and approving by pressing Enter, previously selected objects

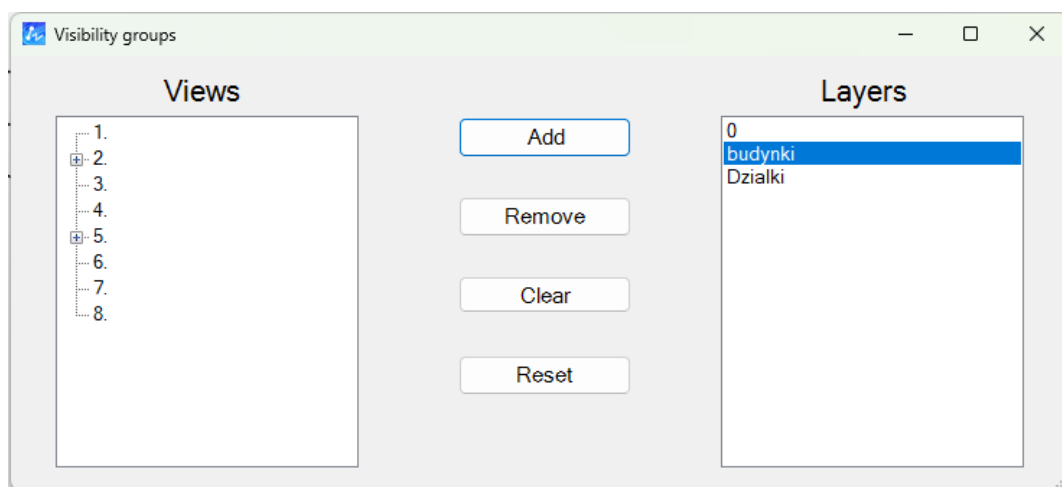
won't be visible. To enable it you have to run the command. In this way, the user can quickly turn on and off groups of elements in the drawing. Just make sure that objects are on a different layers.



The user can make eight groups of objects in the drawing, they are formed in an analogous manner.



The function allows you to turn off or on all previously defined object groups 1-8. You can also change the assignment of visibility buttons in a specially designed options panel.



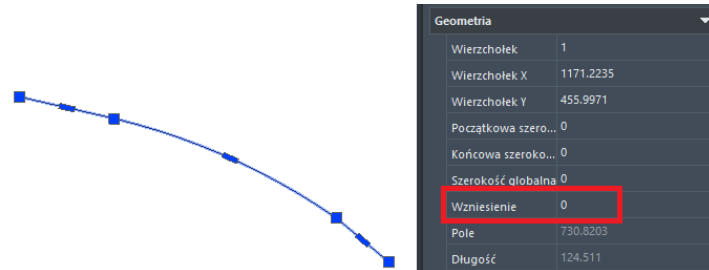
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

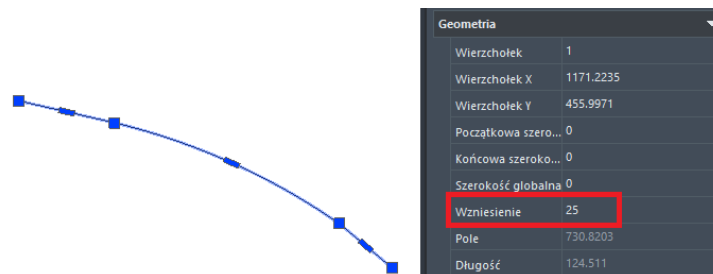
Profile

Mark Contour Lines

With this function, you can easily change a height of a contour line. To do so, run the command and click on a line, then type its value. The Z parameter will be changed.



The picture before and after said function is used.



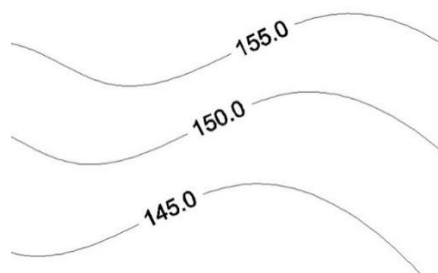
In case of problems, convert your contours to Light Polylines with a CONVERTPOLY command.

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Label Contour Line

The function labels contour lines. After running the command, make a line that will go through your chosen lines. In each place that contour crosses with this function's line, a description of its height will be placed.



In case of problems, convert your contours to Light Polylines with a CONVERTPOLY command.

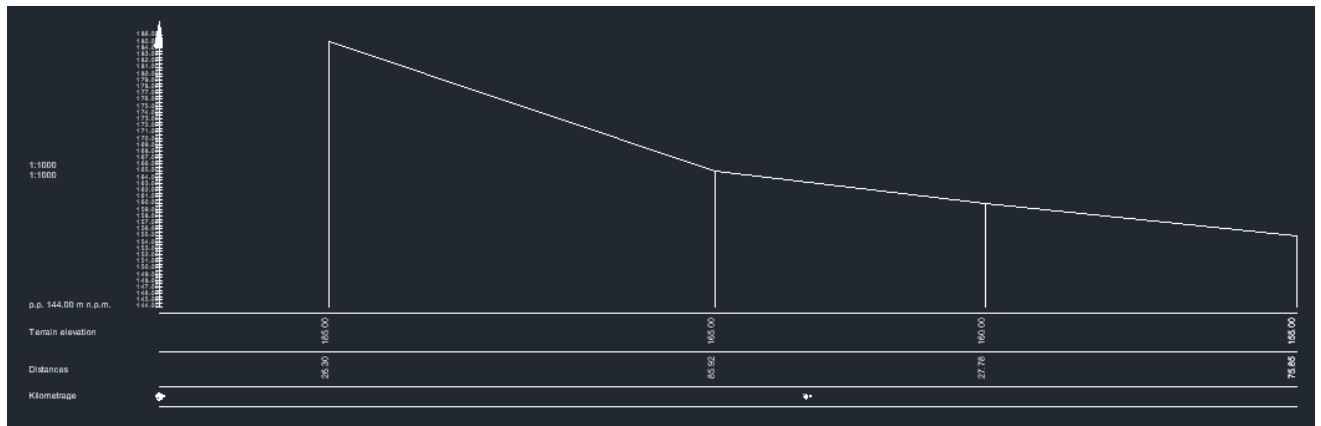
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Draw Profile

To draw a longitudinal profile, run the command and select contour lines. Then, draw a line you want to be a profile, and insert it to the drawing.

In case of problems, convert your contours to Light Polylines with a CONVERTPOLY command.



The function is available in ZWGeo 2025:

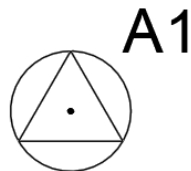
[ZWGeo 2025](#)

ZWMaps

PRPOG

Horizontal fundamental geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Horizontal base geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Fundamental height geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Vertical geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.

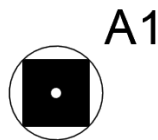


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Fundamental gravimetric geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.

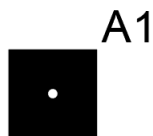


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gravimetric base geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Fundamental magnetic geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Base magnetic geodesic network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.

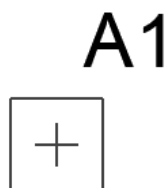


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Detailed horizontal geodesic control network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Detailed height geodesic control network

This function allows you to insert a warp mark. Run the command, enter the number and select the insertion point.

A1



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

PRG

Country border

With this function, you can easily change a polyline to mark a national border. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Voivodeship border

With this function, you can easily change a polyline to mark the boundary of a voivodeship. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

District border

With this function, you can easily change a polyline to mark a district boundary. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

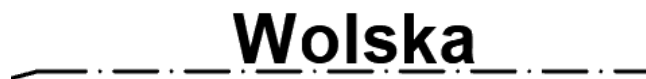


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Commune border

With this function, you can easily change a polyline to mark a commune boundary. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

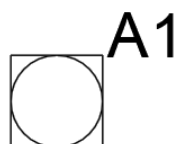


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Permanently stabilized state point of the state border

This function allows you to insert a boundary point marker. Run the command, enter the number and select the insertion point.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Permanently stabilized intermediate point of the state border

This function enables the insertion of an intermediate state border point marker. Run the command, enter the number and select the insertion point.



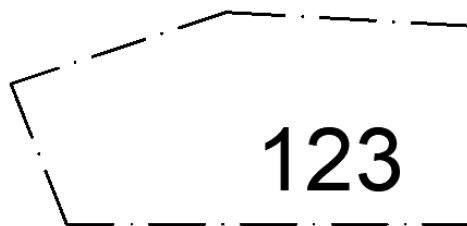
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Land and building records

Cadastral unit

With this function, it is easy to change a polyline to a cadastral unit. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

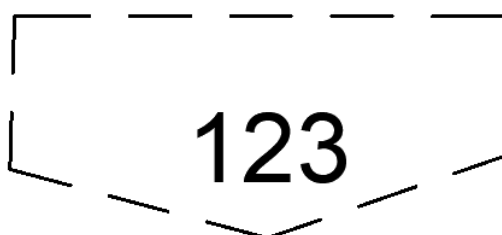


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cadastral precinct

With this function, it is easy to change a polyline to a cadastral precinct. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cadastral parcel

With this function, it is easy to change a polyline to a cadastral precinct. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Border point

This function allows you to insert a boundary point marker. Run the command, select the type and indicate the insertion point.

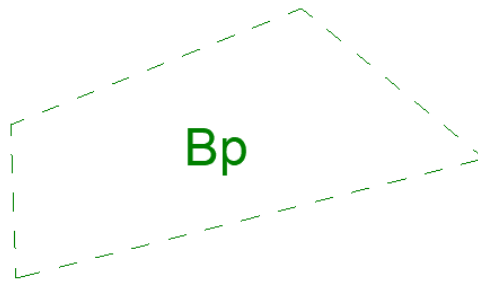


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Land use outline

With this function, you can easily change a polyline to a land use contour marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

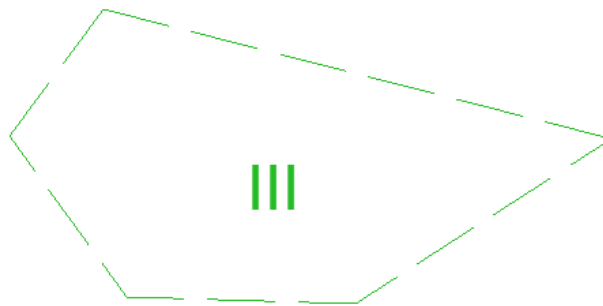


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Classification outline

With this function, you can easily change a polyline to a classification outline marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

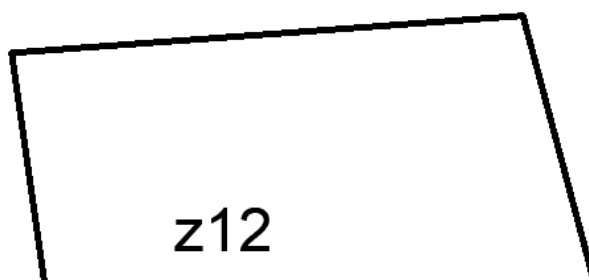


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Building

With this function, you can easily change a polyline to a building designation. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

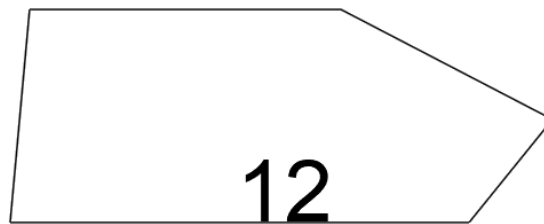


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Above ground storey

With this function, a polyline can be easily changed to a ground floor designation. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

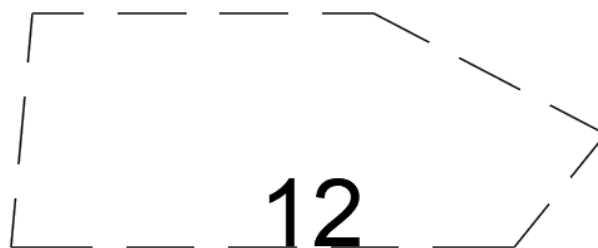


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Underground storey

With this function, you can easily change the polyline to mark the underground storey. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

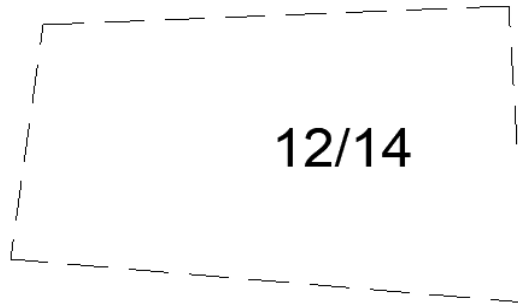


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Connector

With this function, it is easy to change a polyline to a connector marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

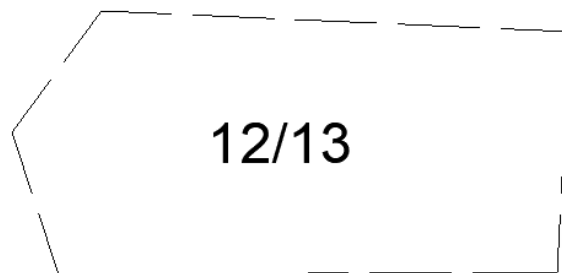


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Overhang

With this function, you can easily change a polyline to an overhang marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

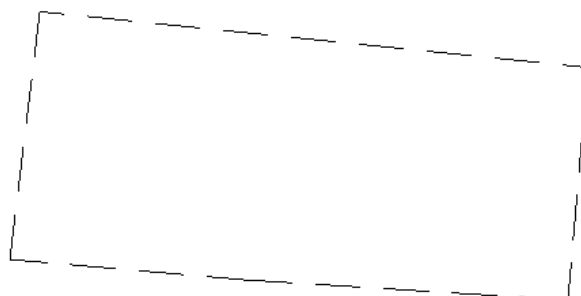


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Building passage

With this function, you can easily change a polyline to mark a building crossing. Simply select the command and point to the object, or select D for Draw from the command line to manually create the marking.

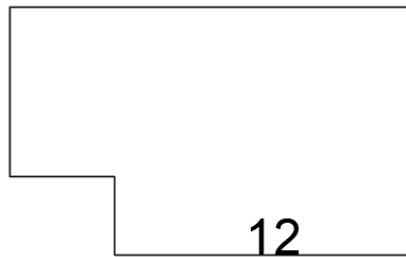


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different type of block

With this function, you can easily change a polyline to mark a different type of block. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

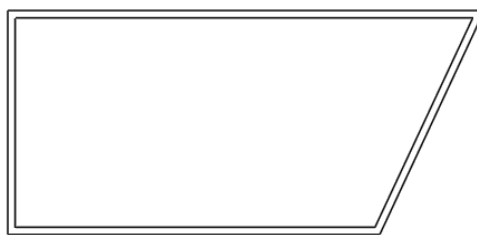


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Terrace

With this function you can easily change a polyline to a terrace marking. Simply select the command and point to the object or select D for Draw from the command line to manually create the marking.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Porch

With this function, you can easily change a polyline to mark a veranda or porch. Simply select the command and point to the object or select D for Draw from the command line to manually create the marking.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Vestibule

With this function, it is easy to change a polyline to a windfall marking. Simply select the command and point to the object or select R for Draw from the command line to manually create the marking.

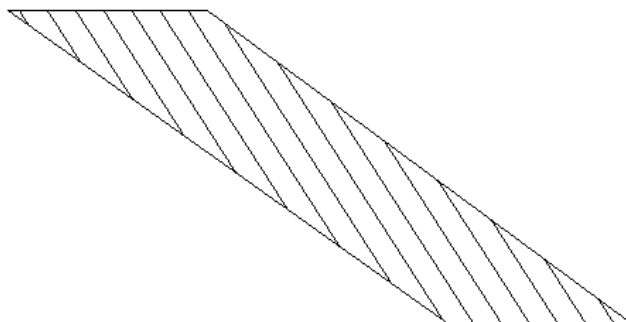


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Stairs

With this function you can easily change a polyline to a staircase marking. Simply select the command and point to the object or select D for Draw from the command line to manually create the marking.

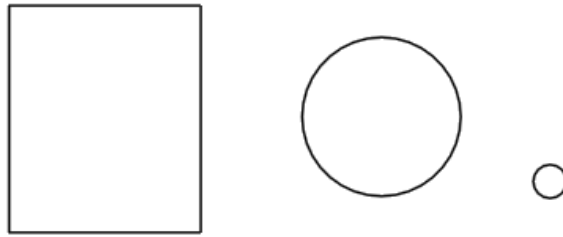


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Pillar

With this function, you can easily change a polyline to a support marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw one of the support shapes manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ramp

With this function, you can easily change a polyline to a ramp marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

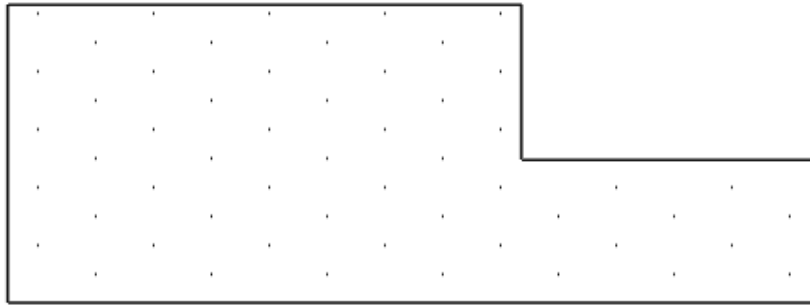


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Entrance to the underground

With this function, you can easily change a polyline to mark an underground entrance. Simply select the command and point to the object or select D as Draw from the command line to manually create the marking.

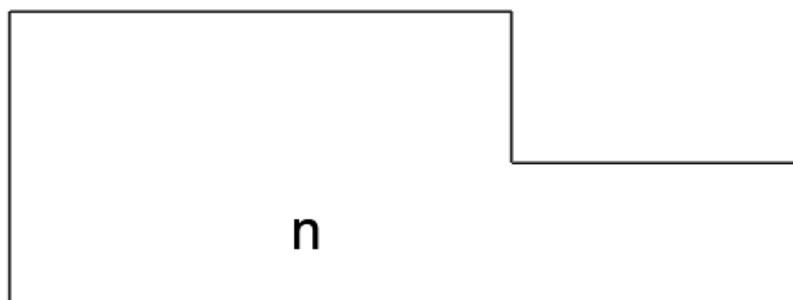


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ramp for disabled people

With this function, a polyline can be easily changed to mark a ramp for the disabled. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



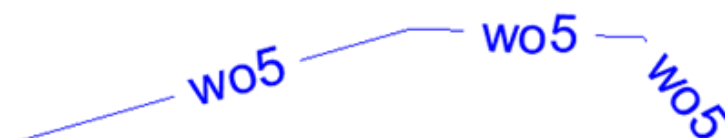
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Geodetic record of land utilities networks

Water pipe

With this function, it is easy to change the polyline to a water pipe designation. Simply select the command, enter the diameter of the pipe and indicate the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

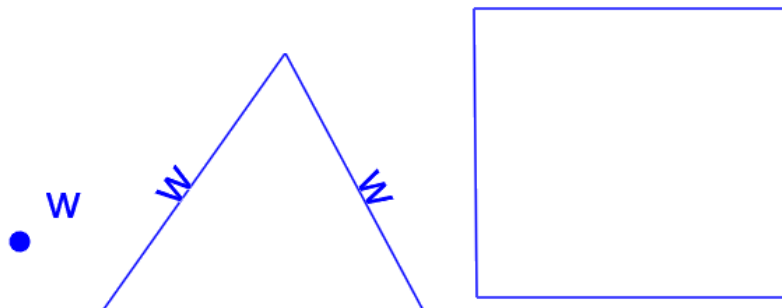


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Water supply technical device

With this function, you can easily change a polyline to mark a water supply technical facility. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.

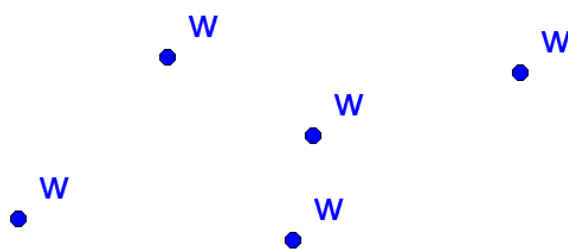


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Valve

With this function, you can easily insert the designation of a gate or valve. Simply select the command and indicate the position on the drawing.



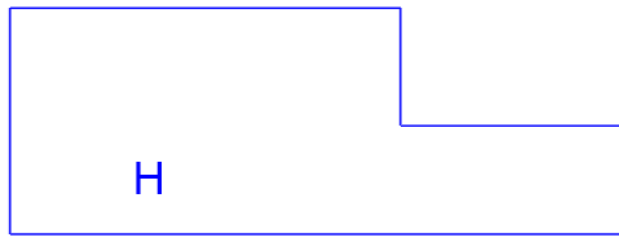
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Hydrophore plant

With this function, it is easy to change the polyline to the hydro plant marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the

command line to draw the line manually or enter a description.

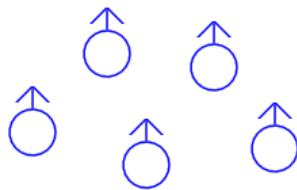


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Hydrant

With this function, you can easily insert a hydrant marking. Simply select the command and indicate the location on the drawing.

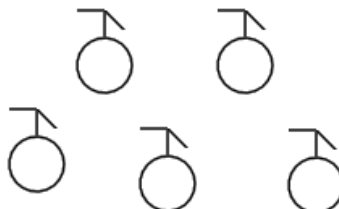


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Street spring

With this function, it is easy to insert the designation of a street spring. Simply select the command and indicate the location on the drawing.

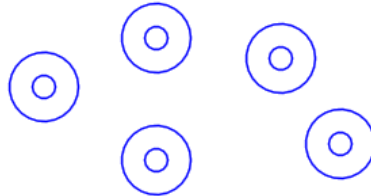


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ordinary well

With this function, you can easily insert a well marking. Simply select the command and indicate the location on the drawing.

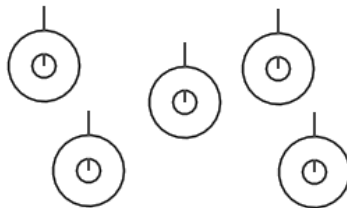


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Deep well

With this function, it is easy to insert a deep well marking. Simply select the command and indicate the location on the drawing.

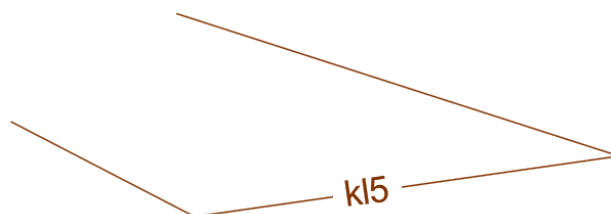


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sewage pipe

With this function, you can easily change a polyline to mark a sewer pipe. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

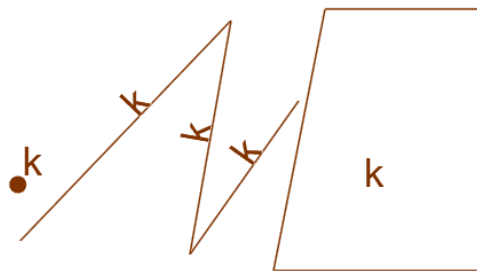


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sewage technical device

With this function, you can easily change the polyline to the designation of a sewer technical device. Simply select the command, enter the diameter and indicate the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

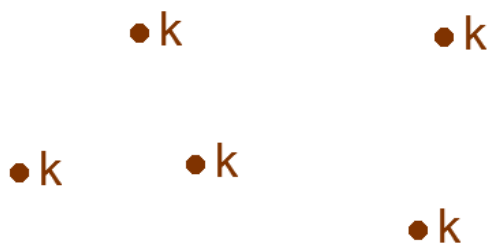


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Valve

With this function, you can easily insert the designation of a gate or valve. Simply select the command and indicate the position on the drawing.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sewage well

With this function, you can easily change the polyline to mark a sewer manhole. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sewage grate

With this function, it is easy to change a polyline to a drain marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

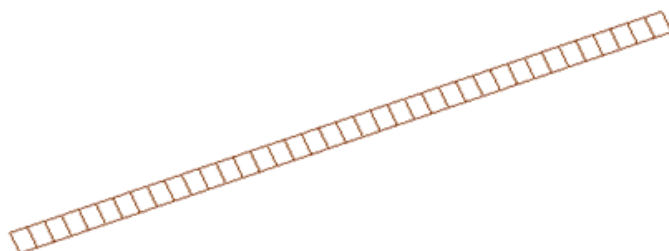


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Linear drainage

With this function, it is easy to change a polyline to a linear drain marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually.

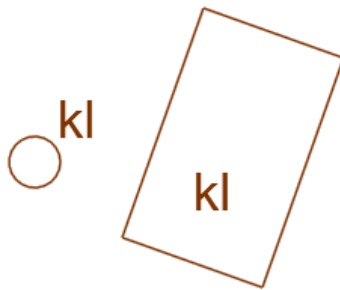


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cesspool

With this function, it is easy to change the polyline to mark the settling tank. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw a line or point manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Home sewage treatment plant

With this function, you can easily change the polyline to mark a domestic wastewater treatment plant. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw it manually or enter a description.

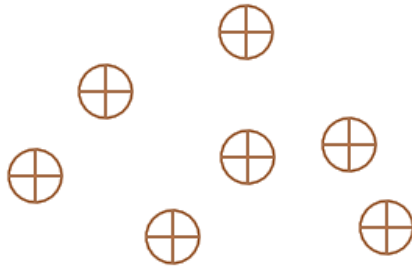


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sewer outlet

With this function, it is easy to insert a sewer outlet marking. Simply select the command and indicate the location on the drawing.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Pumping station

With this function, it is easy to change the polyline to the pumping station marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

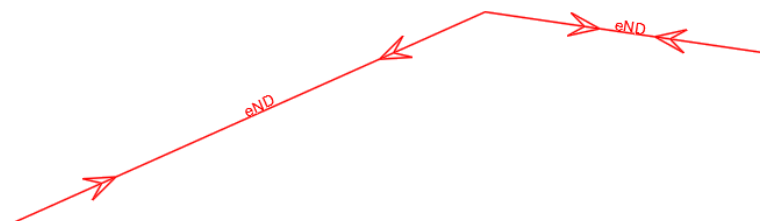


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Electrical cable

With this function, it is easy to change a polyline to mark a power cable. Simply select the command, then the conductor type and indicate the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

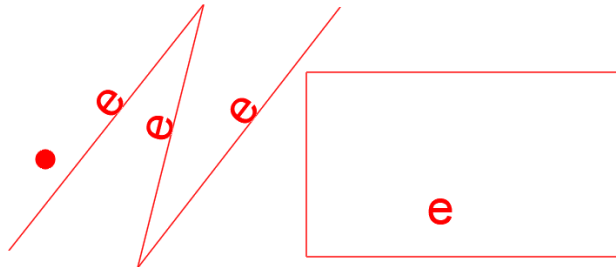


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Electrical technical device

With this function, it is easy to change a polyline to mark an electrical technical device. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Electrical cabinet or container

With this function, you can easily change the polyline to mark a power cabinet or container. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.

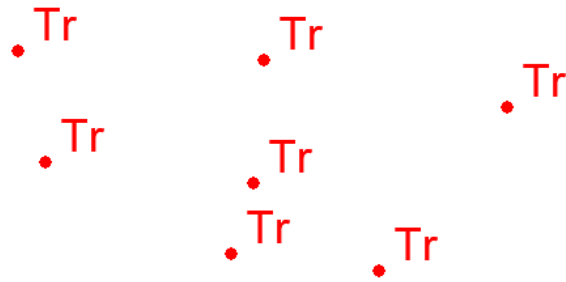


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Transformer station

With this function, you can easily insert a transformer station marking. Simply select the command and indicate the location on the drawing.

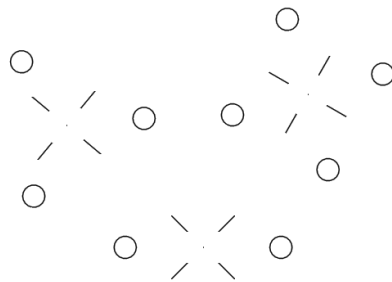


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Lantern

With this function, you can easily insert a lantern marking. Simply select the command, enter the number of light sources and indicate the location on the drawing.

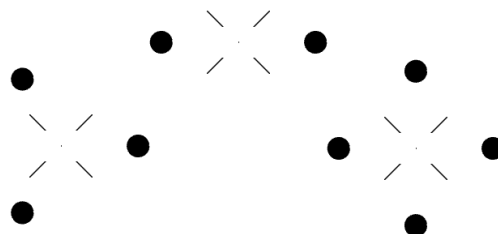


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Lightning pole

With this function, it is easy to insert a lighting mast marking. Simply select the command, enter the number of light sources and indicate the location on the drawing.

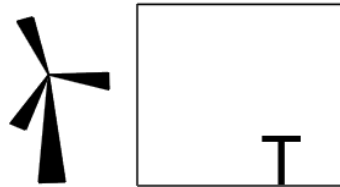


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Wind turbine

With this function, a polyline can be easily changed to a wind turbine designation. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line or point manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Electric vehicle charging station

With this function, you can easily insert the marking of the electric vehicle charging station. Simply select the command and indicate the location on the drawing.

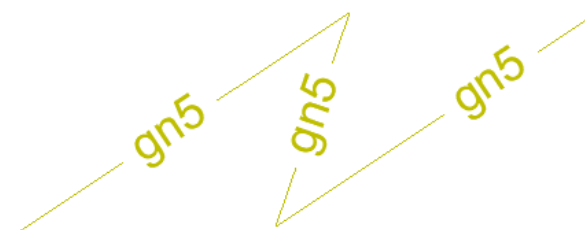


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gas pipe

With this function, a polyline can be easily changed to a gas line marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

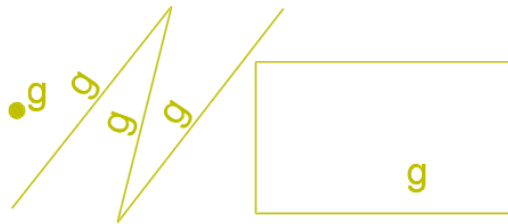


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gas technical device

With this function, a polyline can be easily changed to the designation of a gas technical device. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Valve

With this function, you can easily insert the designation of a gate or valve. Simply select the command and indicate the position on the drawing.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gas cabinet or container

With this function, you can easily change a polyline to mark a gas cabinet or container. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a point or polygon manually or enter a description.

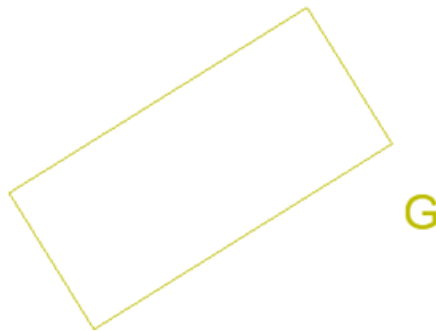


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gas station

With this function, you can easily change the polyline to the gas station marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line or point manually or enter a description.

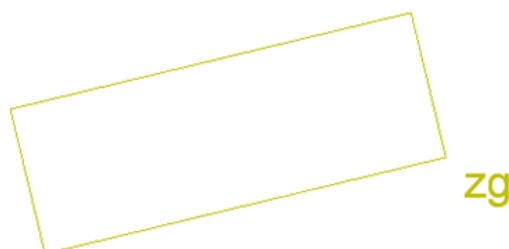


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gas tank

With this function, you can easily change the polyline to the gas tank marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

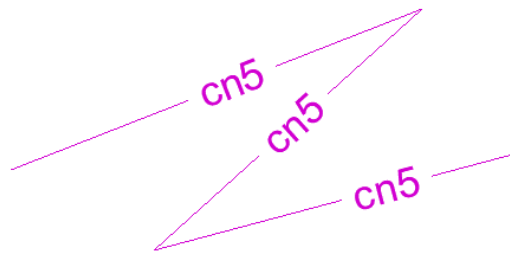


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Heat pipe

With this function, you can easily change the polyline to the heat pipe marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

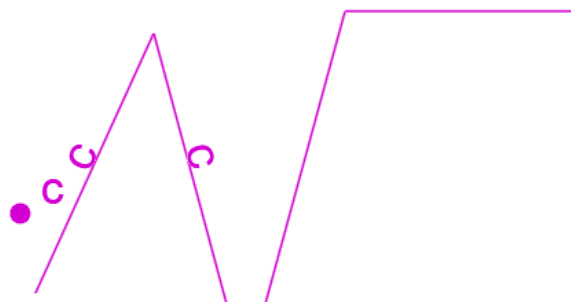


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Heat technical device

With this function, a polyline can be easily changed to the marking of a heating technical device. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.

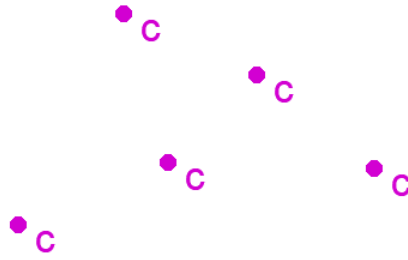


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Valve

With this function, you can easily insert the marking of a gate or valve. Simply select the command and indicate the position on the drawing.

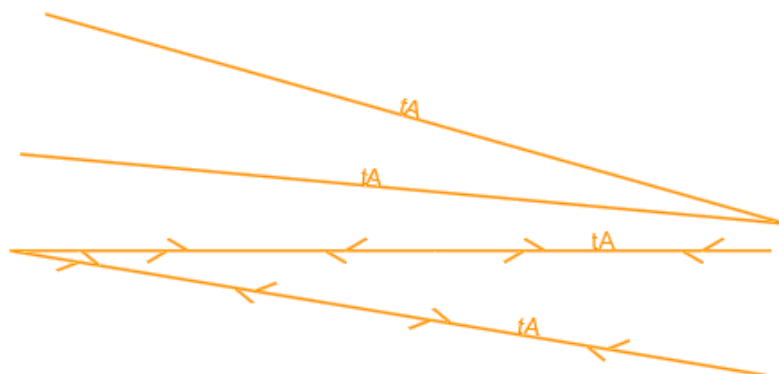


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Telecommunication cable

With this function, a polyline can be easily changed to a telecommunications cable marking. Simply select the command and the type of conductor and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

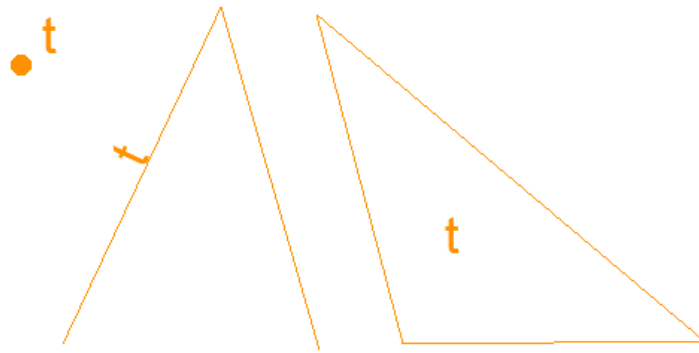


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Telecommunication technical device

With this function, you can easily change a polyline to mark a telecommunications technical device. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line, point or polygon manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Telecommunication cabinet or container

With this function, you can easily change a polyline to mark a telecommunications cabinet or container. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a point or polygon manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Telecommunication tower

With this function, you can easily change a polyline to mark a telecommunications tower. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line or point manually or enter a description.

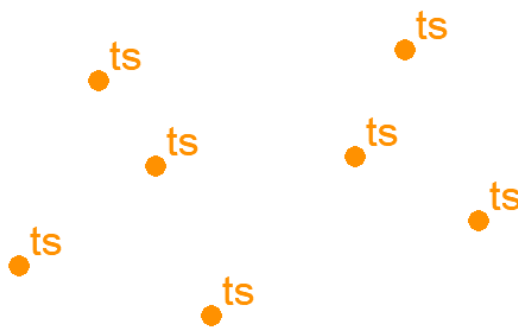


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Telecommunication pole

With this function, you can easily insert a telecommunications pole marking. Simply select the command and indicate the location on the drawing.

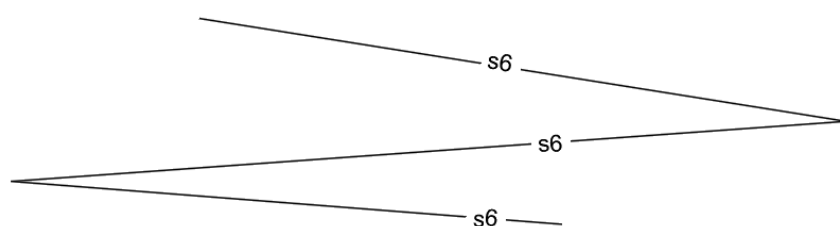


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Special cable

With this function, a polyline can easily be changed to a special cable marking. Simply select the command and the diameter of the conductor and point to the object. Alternatively, you can use the prompts in the command line to draw the line manually or enter a description.

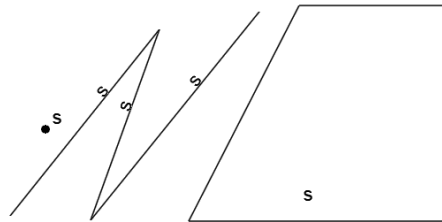


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Special network's technical device

With this function, you can easily change the polyline to mark a technical device of a special network. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to insert a point, draw the outline manually or enter a description.

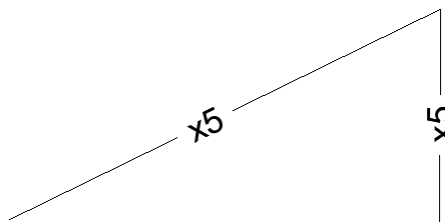


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Unidentified wire

With this function, you can easily change the polyline to mark an unidentified wire. Simply select the command and the diameter of the conductor and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.

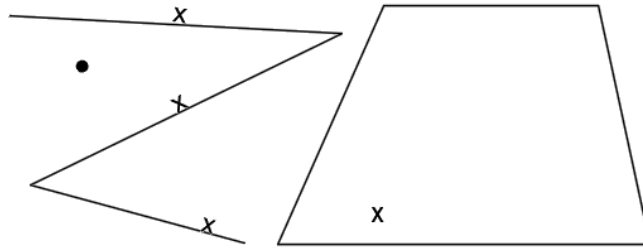


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Unidentified network's technical device

With this function, you can easily change a polyline to mark a technical device of an unidentified network. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to insert a point, draw the outline manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Technological channel

With this function, it is easy to change the polyline to a technological channel marking. Simply select the command and the diameter of the duct and indicate the object. Alternatively, you can use the prompts in the command line to draw the line manually or enter a description.

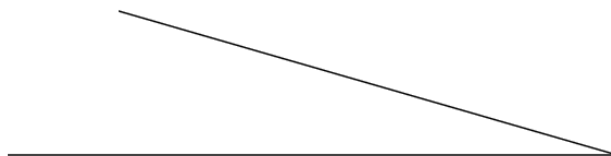


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cable protective casing

With this function, it is easy to change the polyline to the cable protective casing marking. Simply select the command, enter the diameter and indicate the object. Alternatively, you can use the prompts in the command line to draw the line manually.

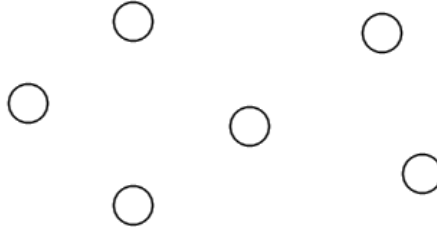


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Underground chamber

With this function, you can easily insert the marking of an underground chamber. Simply select the command and point to a location on the drawing.

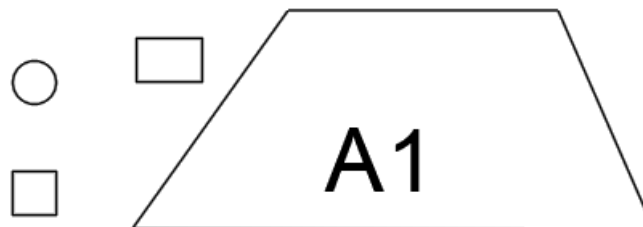


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Manhole to a chamber or sewer

With this function, you can easily insert a manhole marking into a chamber or sewer. Simply select the command and point to a polyline on the drawing, or select any of the shapes available on the command line.

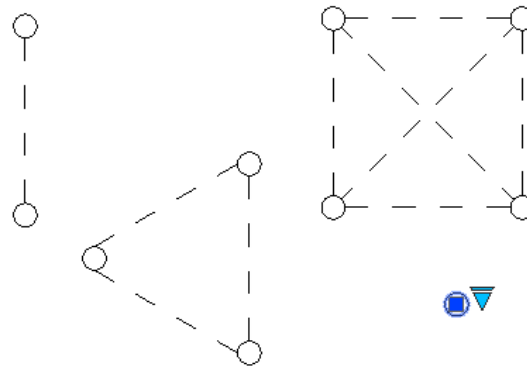


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Overhead wire pole

With this function, it is easy to insert overhead wire markings. Simply select the command and indicate a location on the drawing. The markings are parametric blocks in which the visibility can be changed to different variants and then easily edited.

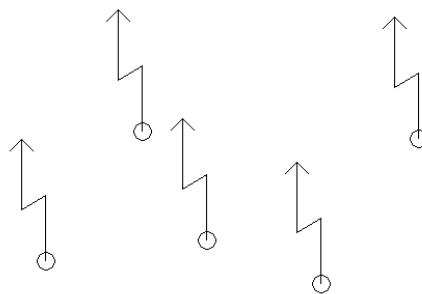


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Traction pole

With this function, you can easily insert a traction pole marking. Simply select the command and indicate the location on the drawing.

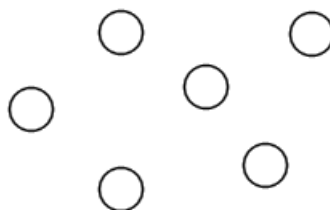


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cable support

With this function, you can easily insert a cable support marking. Simply select the command and indicate the location on the drawing.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Underground building

With this function, you can easily change a polyline to mark an underground structure. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the line manually or enter a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Database of topographic objects

Building in construction

With this function, you can easily change a polyline to a building in construction marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.



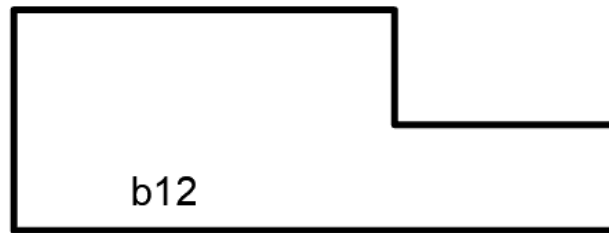
The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Building

With this function, you can easily change a polyline to a building marking. Simply select the command, the building location and indicate the object. Alternatively, you can use the

prompts in the command line to draw the outline manually and insert a description in which the type of building and the top floor must be indicated.

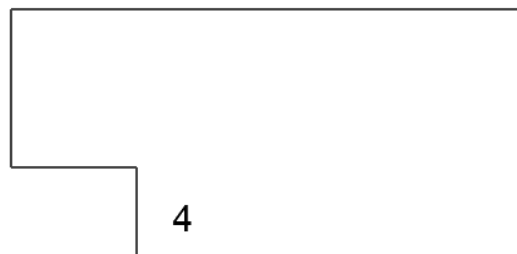


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Overground storey

With this function, it is easy to change the polyline to mark the above-ground storey. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description in which the top storey must be indicated.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Underground storey

With this function, you can easily change the polyline to mark the underground storey. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

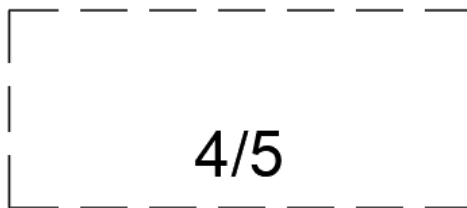


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Connector

With this function, it is easy to change a polyline to a connector marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description in which the storeys must be indicated.

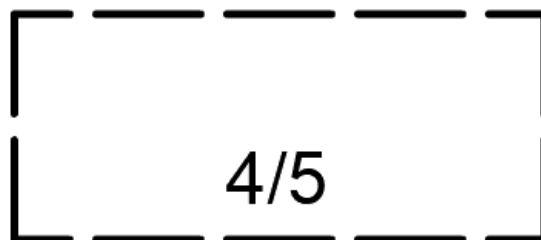


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Overhang

With this function, you can easily change a polyline to an overhang marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description in which the storeys must be indicated.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Drive through the building

With this function, it is easy to change a polyline to mark a building crossing. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different type of block

With this function, you can easily change a polyline to mark another type of block. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description in which to indicate the storeys.

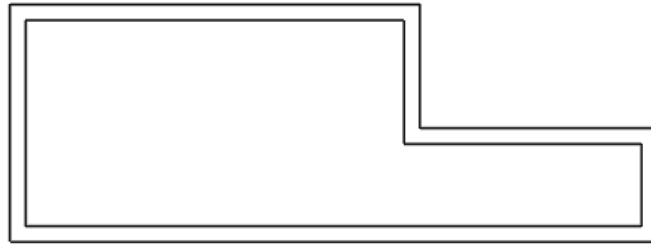


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Terrace

With this function, you can easily change the polyline to a terrace marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

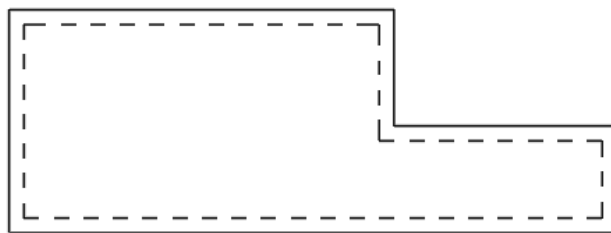


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Porch

With this function, you can easily change a polyline to mark a porch. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

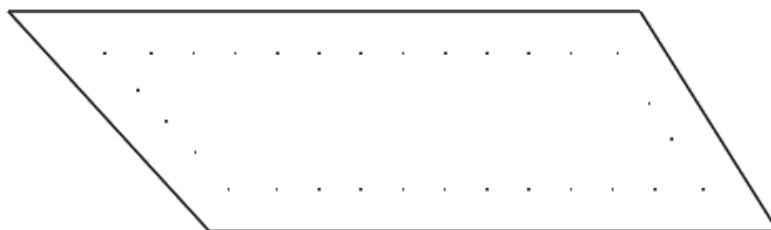


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Vestibule

With this function, it's easy to change a polyline to a vestibule marking. Simply select the command and point to the object, or select R as Draw from the command line to manually create the marking.

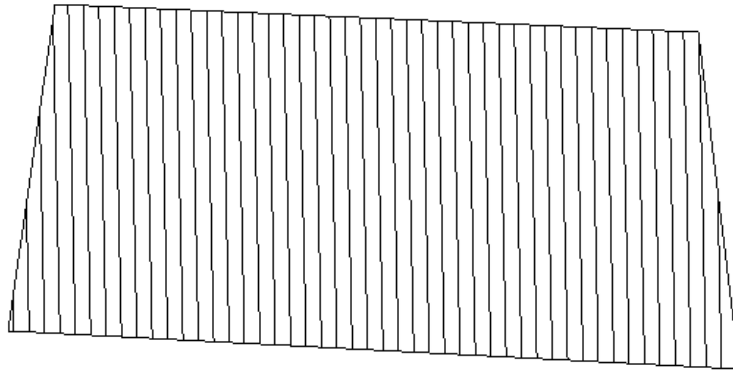


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Stairs

With this function, you can easily change the polyline to mark the staircase. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually. You still only need to indicate the direction of the staircase.

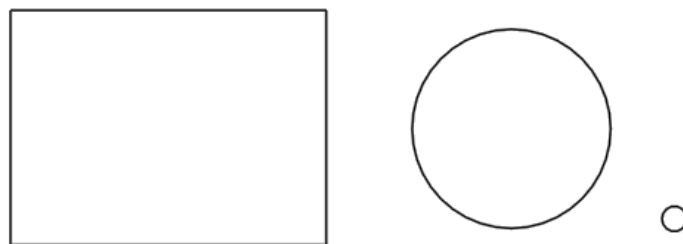


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Support associated with a building

With this function, you can easily change a polyline to a support marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually in one of the available shapes.

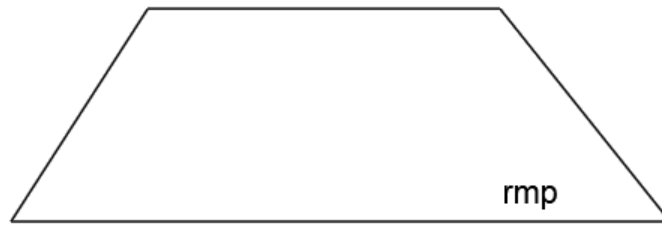


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ramp

With this function, you can easily change a polyline to a ramp marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually and insert a description.

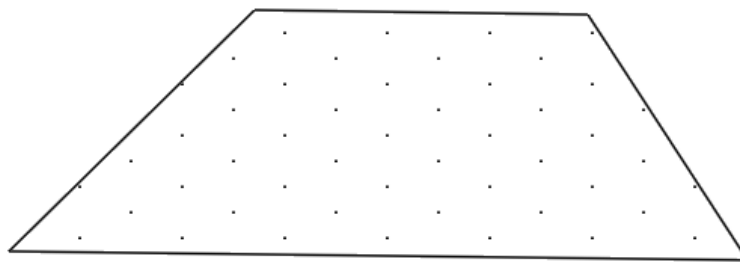


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Entrance to the underground

With this function, you can easily change the polyline to mark the underground entrance. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

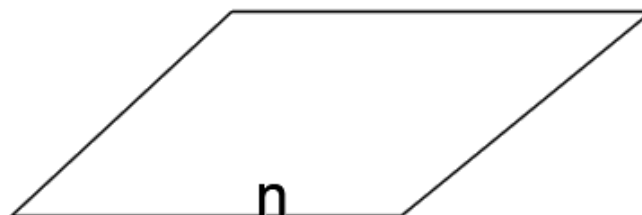


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ramp for disabled people

With this function, a polyline can be easily changed to mark a disabled ramp. Simply select the command and indicate the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

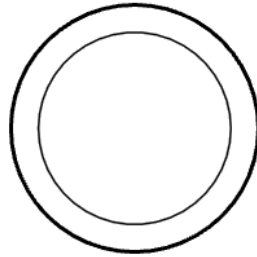


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cooling tower

With this function, you can easily change the polyline to mark the cooling tower. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually.

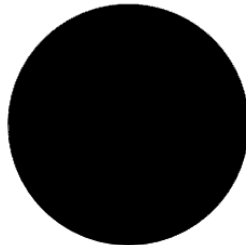


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Industrial chimney

With this function, you can easily change the polyline to mark an industrial chimney. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually.

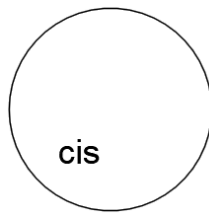


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Water tower

With this function, you can easily change the polyline to mark the water tower. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Fire tower

With this function, you can easily change the polyline to mark a fire tower. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

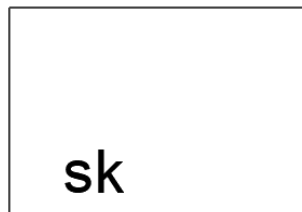


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Mine shaft tower

With this function, you can easily change the polyline to mark the mine shaft tower. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Observation tower

With this function, you can easily change the polyline to mark the observation tower. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Tank or silo

With this function, you can easily change the polyline to mark a tank or silo. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

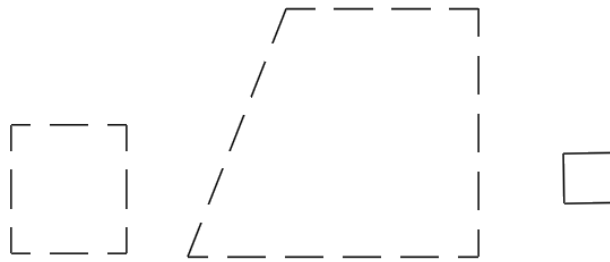


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Shed

With this function, you can easily change the polyline to mark the shed. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually in one of the available shapes.

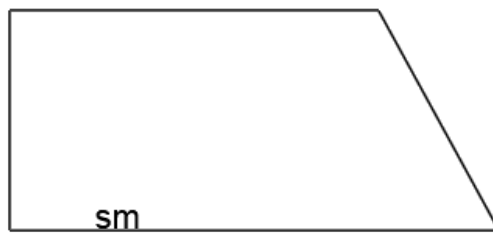


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Dumpster

With this function, it is easy to change a polyline to mark a dumpster. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

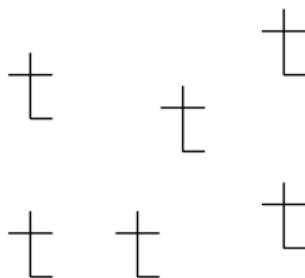


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Figure, cross

With this function, you can easily insert a crosshair marking. Simply select the command and point to a location on the drawing.

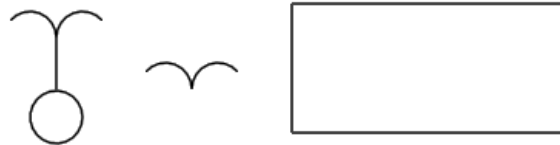


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Fountain

With this function, you can easily change the polyline to mark the fountain. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually in one of the available shapes.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Statue

With this function, you can easily change a polyline to mark a monument. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the object manually or insert it as a point.

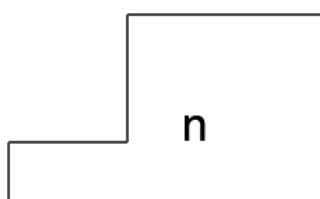


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Monumental ruin

With this function, you can easily change a polyline to mark a monumental ruin. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the object manually or insert a description.

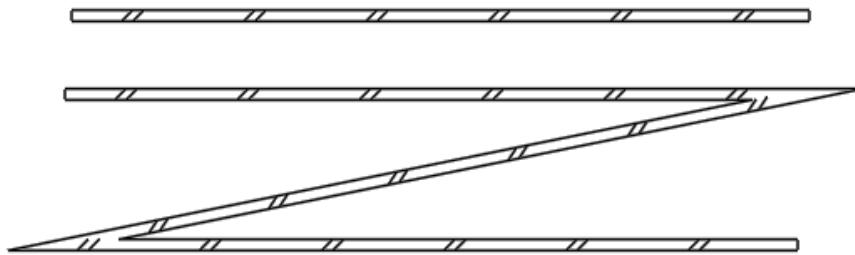


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Retaining wall

With this function, you can easily change a polyline to a retaining wall marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually.

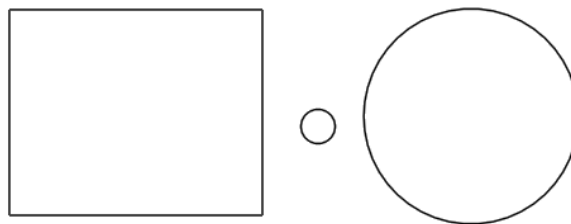


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Support

With this function, you can easily change a polyline to a support marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually in one of the available shapes.

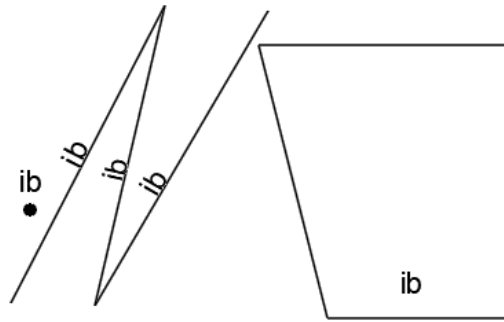


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different building

With this function, you can easily change a polyline to mark different building. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually in one of the available shapes.

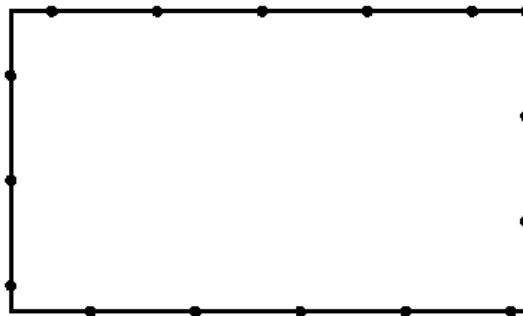


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Permanent fence

With this function, you can easily change a polyline to mark a permanent fence. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Gate

With this function, you can easily change a polyline to a gate marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually.

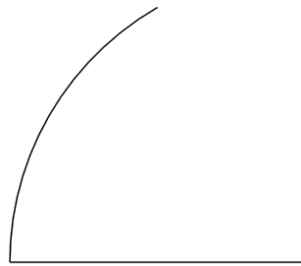


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Wicket

With this function, you can easily change a polyline to a wicket marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Roadway

With this function, you can easily change a polyline to a roadway marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Curb

With this function, you can easily change a polyline to a curb marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.

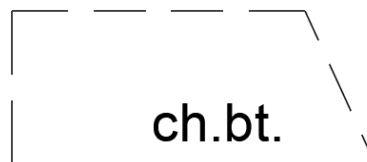


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Pavement

With this function, you can easily change a polyline to a pavement marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Bike lane

With this function, you can easily change a polyline to mark a bike lane. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Paved area

With this function, you can easily change a polyline to mark a paved area. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.

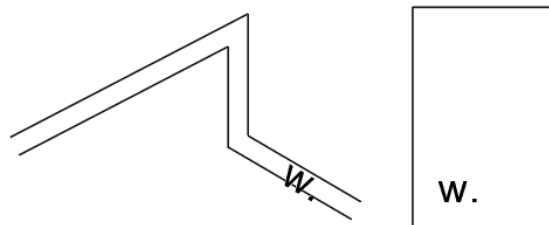


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Roadside ditch

With this function, you can easily change a polyline to mark a roadside ditch. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.

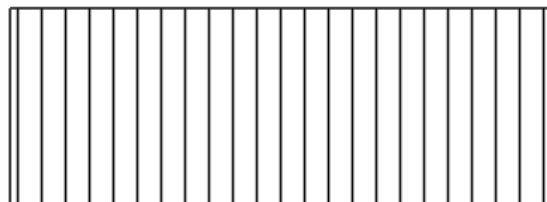


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Stairs in the communication route

With this function, you can easily change the polyline to mark the staircase. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually and specify the direction.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Bridge

With this function, you can easily change the polyline to mark a bridge. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.

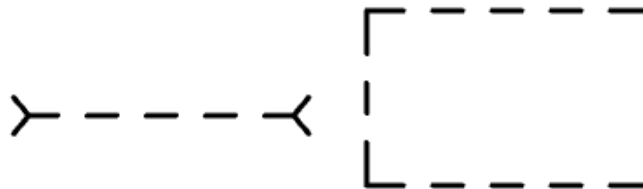


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Culvert

With this function, you can easily change a polyline to a culvert marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw a line or polygon manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Overpass

With this function, you can easily change a polyline to mark a viaduct. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.

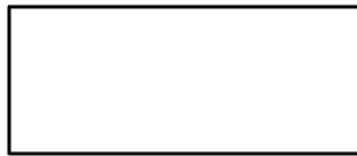


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Wharf

With this function, it is easy to change a polyline to mark a flyover. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.

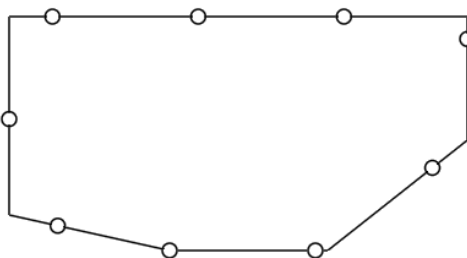


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Protective barrier

With this function, a polyline can be easily changed to a barrier marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.

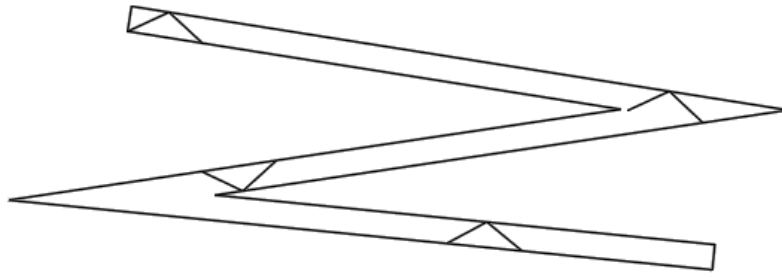


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Acoustic screen

With this function, a polyline can be easily changed to a acoustic screen marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the object manually.

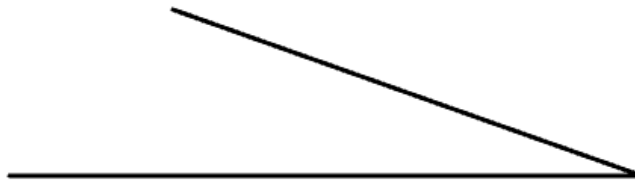


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Track

With this function, you can easily change a polyline to a track marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually.

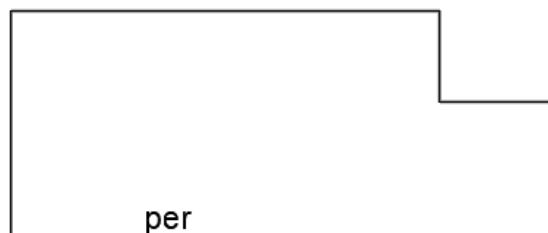


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Platform

With this function, you can easily change a polyline to a platform marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the polyline manually or insert a description.

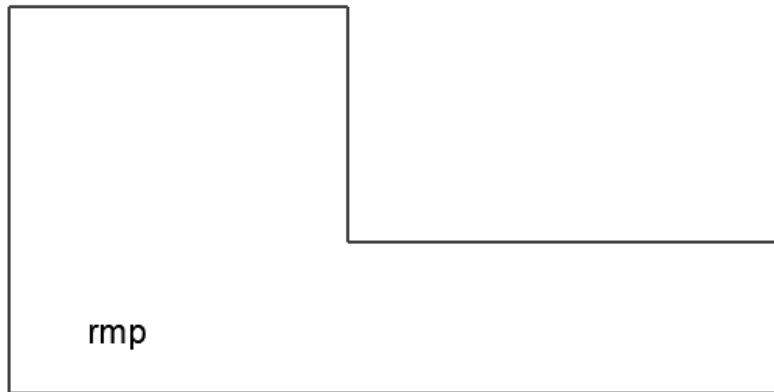


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ramp

With this function, you can easily change a polyline to a ramp marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually and insert a description.

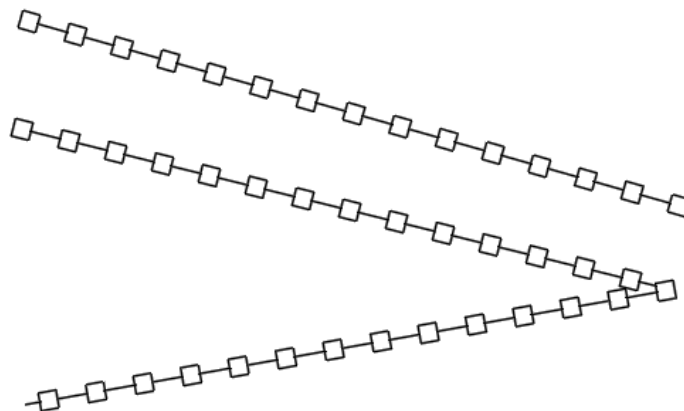


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Cableway

With this function, you can easily change a polyline to a cableway marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the polyline manually or insert a description.

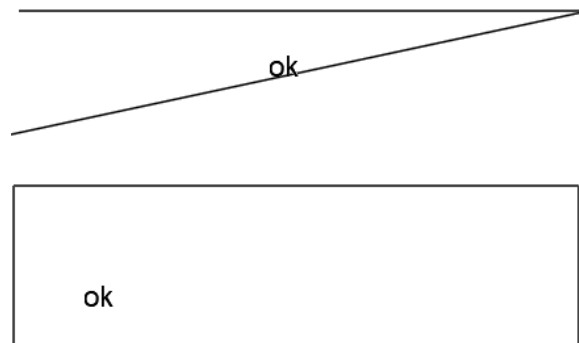


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different communication object

With this function, you can easily change a polyline to mark a different communication object. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw objects manually or insert a description.

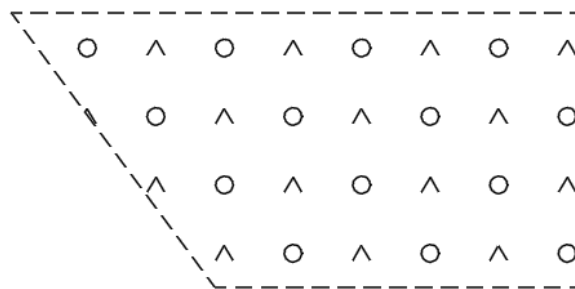


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Forest area

With this function, it is easy to change a polyline to a forest area designation. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the objects manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Tree or bush cover

With this function, it is easy to change a polyline into a tree and shrub designation. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the objects manually.

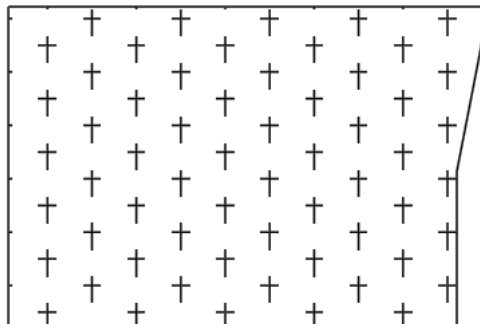


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Graveyard

With this function, you can easily change a polyline to mark a cemetery. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

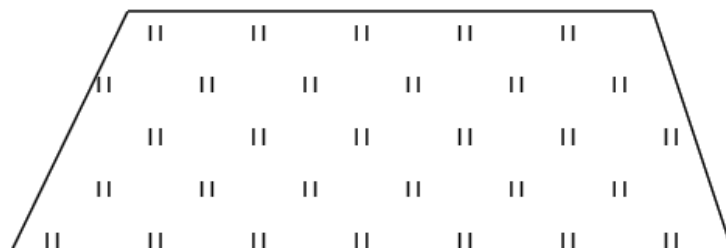


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Lawn

With this function, you can easily change a polyline to a lawn marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

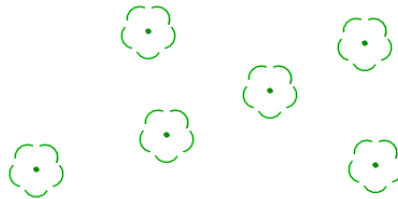


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Deciduous tree

With this function, you can easily insert a tree marking. Simply select the command and point to a location on the drawing.

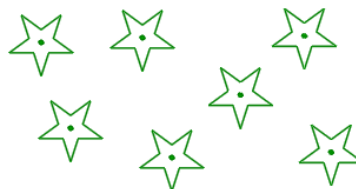


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Conifer

With this function, you can easily insert a tree marking. Simply select the command and point to a location on the drawing.

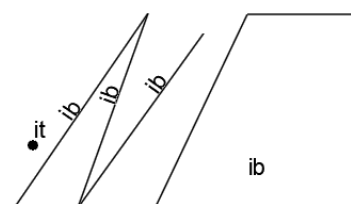


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different land development facility

With this function, you can easily change a polyline to mark different land use object. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw objects manually or insert a description.

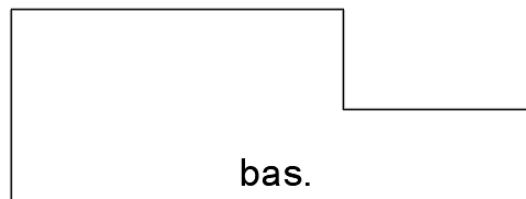


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Outdoor pool

With this function, you can easily change a polyline to mark an outdoor swimming pool. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different sport facility

With this function, you can easily change a polyline to mark a sports ground. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Sports square

With this function, you can easily change a polyline to mark a sports ground. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a symbol.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Playground

With this function, you can easily change a polyline to mark a playground. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a symbol.

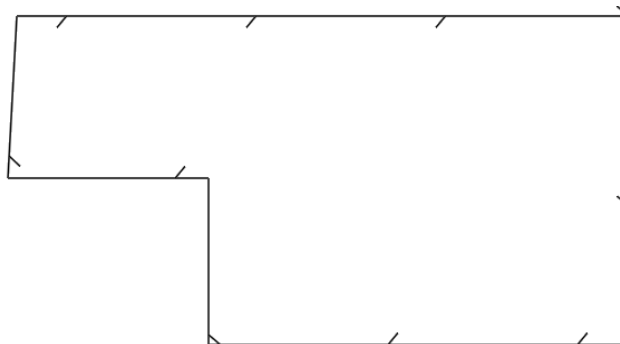


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Ski lift

With this function, you can easily change a polyline to a ski lift marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

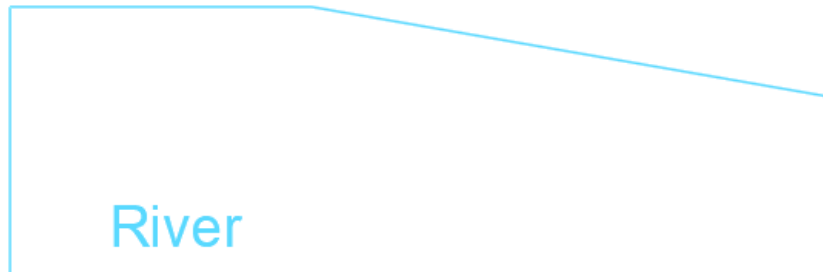


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Flowing water

With this function, it is easy to change a polyline to a flowing water marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description.

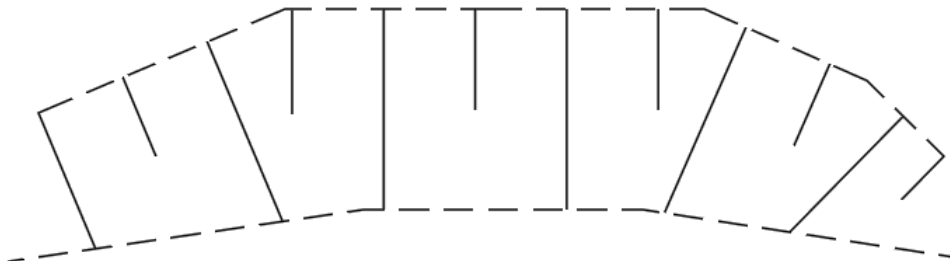


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Flood embankment

With this function, you can easily create a flood embankment. To do so, start the command, then indicate both slope boundaries.

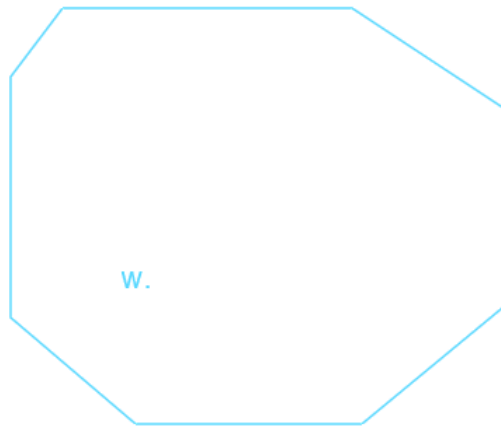


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Still water

With this function, you can easily change a polyline to a standing water marker. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually and insert a description.

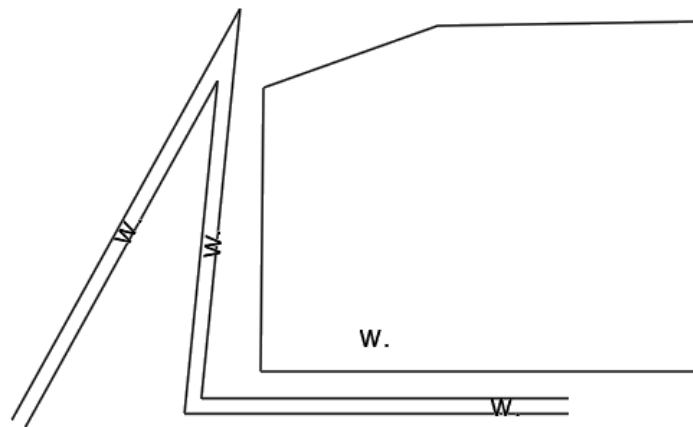


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Drainage ditch

With this function, you can easily change the polyline to mark a drainage ditch. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the line or outline manually and insert a description.

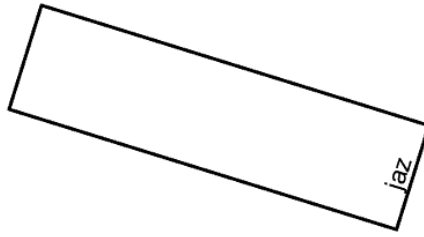


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Weir

With this function, you can easily change the polyline to a weir designation. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw objects manually or insert a description.

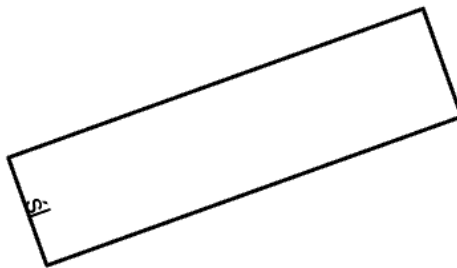


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Floodgate

With this function, a polyline can be easily changed to a floodgate marking. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw objects manually or insert a description.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Causeway

With this function, you can easily create a causeway marking. To do so, start the command, then indicate both slope boundaries.

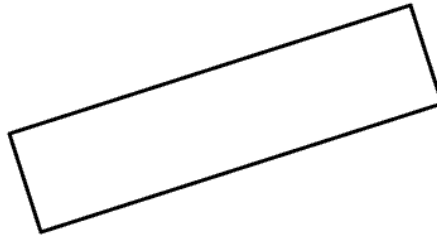


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Dam

With this function, a polyline can be easily changed to a dam marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Spur

With this function, you can easily change a polyline to a spur marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Different object related to water

With this function, you can easily change a polyline to a spur marking. Simply select the command and point to the object. Alternatively, you can use the prompts on the command line to draw the outline manually.

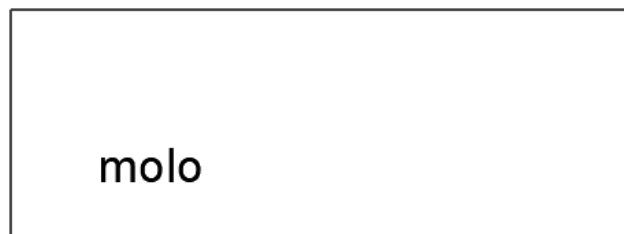


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Pier

With this function, you can easily change a polyline to mark a pier. Simply select the command and point to the object. Alternatively, you can use the prompts in the command line to draw the outline manually or insert a description.

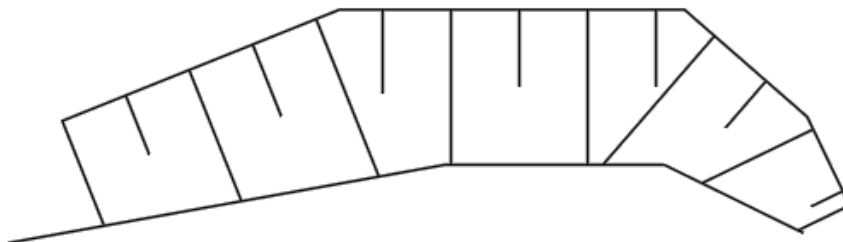


The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Reinforced slope

With this function, you can easily create a reinforced slope. To do so, start the command, then indicate both slope boundaries.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Unreinforced slope

With this function, you can easily create an unreinforced slope. To do so, start the command, then indicate both slope boundaries.



The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Natural picket

With this function you can easily insert a picket mark. Simply select the command, enter the number and indicate the location on the drawing.

A2

A1

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)

Artificial picket

With this function you can easily insert a picket mark. Simply select the command, enter the number and indicate the location on the drawing.

A2

A1

The function is available in ZWGeo 2025:

[ZWGeo 2025](#)