ZWGeo 2020 User Manual

ZWGeo 2020



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ZWGeo 2020

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1 Description

Application ZWGEO is application (add-on) which help in surveyor work, in following areas:

- 1 Mark points on project by name and number
- 2 Add possibility of save points in external text files
- 3 Add possibility of load points from external text files

2 Requirements

ZWGeo is an application (add-on) for ZWCAD 2020. It works with the most recent version of ZWCAD 2020.

3 Support

Technical support is available from 8 am to 4 pm from Monday to Friday, we invite you to contact us by e-mail or telephone.

E-mail: pomoc@zwcad.pl

Phone: 33 474 04 03

4 Installation

Application installs automatically after run downloaded installation package.

Default application is installed in folder C:\Szansa\ZWGEO\2020\EN. In time of installation, it's possible to set different installation path. This is not recommended especially in Windows Vista, Windows 7, Windows 8, Windows 10. Build in UAC function in this systems lock some functions of application.

After correct installation and run ZWCAD. Application ZWGEO 2020 should load automatically. On ZWCAD window, there should be toolbar as below.



If for some reasons application and menu will not be loaded automatically, You can load it manual following instructions on chapter Błąd! Nie można odnaleźć źródła odwołania..



5 Activation of application

Activation must be completed on an account with administrative privileges.

Once the trial period of 30 days runs out, a license will be needed in order to use the program. After receiving the payment, an e-mail with an activation code will be sent.

In order to activate the program, use the command ZWGeo:Activate or click on this icon U in ZWGeo toolbar. The following window will appear: Once Activator has been launched, the following window will be displayed:

Application	Module	Version	Licence type	Licence state	Expiring	The code
, ppiedaion	modulo				Copining	
(Windle)		100	(Margaret	New		
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of the second	and the second se	100	(Second	(Berne)		
and the state	100	100	(Margaret	(Heren		
121400	10.00	100	Charles .	Charles .	-	
Cit Could be	ingent.	100	Concerned and the second	(Heren		
24 Carton Alexandre		200	10000	(Second	-	
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200 Barbarbar		100	in the second	All and a second se	2010 Com	100.010 (0.01
ZWGeo 📐	All	2020		Active	19-07-2019	The set of the set
(100 m)			10000	(Martine)		
		1		1		4

Please click on "Activate".

A choice between activating the appliaction online or offline will be present.

Activation		
Online	Offline	
	Activation code	
	Activate	
		Close

5.1 Online Activation

Please note: Online activation requires an Internet connection. If there is no internet connection available please use the Offline Activation.

In the field "Activation code" please type in the information sent during realization of the order, afterwards click on "Activate".

An information window will pop up confirming the activation.



Once ZWCAD is launched, all functions of the program should be loaded and available.

5.2 Offline Activation

In the " Offline " tab	Online Offline additio	onal steps are required to complete	e the activation.
	Activation		
	Online Offline		
	Activation code		
	1: Create request file		
	2:		
	3: Activate		
		Close	

In the field "Activation code" please type in the information sent during realization of the order.

Activation code	
Activate	

Afterwards it is necessary to click on "Create a request file", it will create an additional file which needs to be saved on the desktop or in any other directory of the computer.

1: Create request file]
------------------------	---

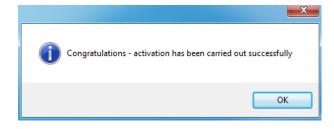
The file needs to be sent in a form of an attachment to, <u>pomoc@zwcad.pl</u> and a reply will consist of response file which then needs to be loaded in the activator:

2:	

Response file needs to be saved on the computer and its localization needs to be determined by clicking on the following icon

Once the response file is loaded, click on "Activate".

An information window will pop up confirming the activation.



Once ZWCAD is launched, all functions of the program should be loaded and available.

5.3 Transfer of a license

The license of UISZANSA applications in the form of a program code can be transferred to a different workstation.

In order to transfer the license to a different computer, it is necessary to return the active license and once that is done, it will be possible to activate the license on a different Workstation.

5.3.1 Returning the license

License return is available in the UISZANSA Activator window.

Applicati	on Module	Version	Licence type	Licence state	Expiring	The code
Contraction of the local distribution of the	19 E -	100	The second second	1004	10 Mar 10	1000.000.000
Contract of		100	Concerned in the second	(Acres)	-	
and the second		100	10000	(Margaret		
- 10 Test	6 - East	100	CONTRACTOR OF	CONTRACT		
100 100	6 (A)	100	Concerned to the second	(Margaret	-	
1000	 Network 	100	Children and	Children .		
Sec.	for the state	100	(Margaret	(Hereiter)		
24 Back		100	10000	100000	-	
1000	a (1997)	100	CONTRACTOR OF	CONTRACT		
1000		100	No.	in the second second	Desire Contra	100.000 (0.01
ZWGe	D 📐 All	2020	i a constante da con	Active	19-07-2019	10100
(100 m)			(Margaret	(Married Street		

Once "**Return**" has been clicked on, an additional window will appear in which it will be possible to return the license, either online or offline.

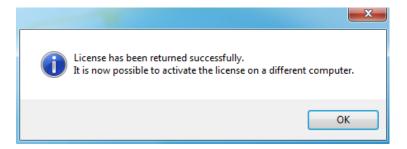
License return	
Online Offline	
Activation code	
Return	
	Close

5.3.1.1 Online return

Please note: Online return requires an Internet connection. If there is no internet connection available please use the Offline return (3.1.2 Offline return).

To carry out the online return, please type in your license details followed by clicking on "Return".

Once confirmed, the license will be usable on a different workstation.



5.3.1.2 Offline return

In the **"Offline**" tab additional steps are required to complete the return of a license.

License ret	turn	100	
Online	Offline		
	Activation code		
1:	Create request file		
2: 3:	Return		
			Close

In the field "Activation code" please type in your license details.

Activation code		

Afterwards it is necessary to click on "Create a request file", it will create an additional file which needs to be saved on the desktop or in any other directory of the computer.

1:	Create request file

The file needs to be sent in a form of an attachment to, <u>pomoc@zwcad.pl</u> and a reply will consist of response file which then needs to be loaded in the activator:

2:	

Response file needs to be saved on the computer and its localization needs to be determined by

clicking on the following icon.

Once the response file is loaded, click on "Return"



Once ZWCAD is launched, all functions of the program should be loaded and available.

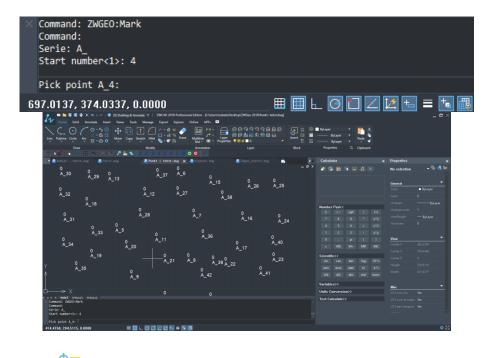
6 ZWGEO Commands

6.1 Mark points Φ^1

Command: ZWGEO:MARK

Command let user mark points by insert point entity and text containing series and number in points clicked by User.

After run command User will be asked to input series and start number. After click each point in clicked point inserted will be point and text where number will be increased by 1 in each point.

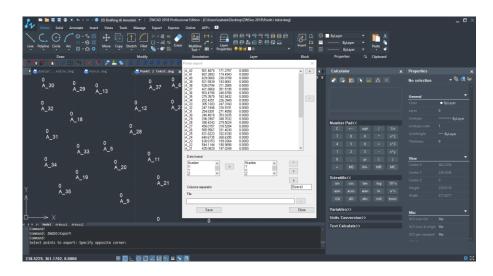


6.2 Save points

```
Command: ZWGEO:EXPORT
```

Command will export coordinates of points into text files.

After run command, application will display window:



In this window there is a list of points selected from drawing. If You want to select new points , click point [+] and application will ask You to select points. You can remove points from this list by [-].

In this window You can also define format of file, columns order and separator. And also You should write or select path to file where points will be stored. After click point [Save], points will be saved.

A 42	501.4674	171.2757	0.0000		+
A 41	607.2802	174.4943	0.0000		
A 40	629.0060	230.0158	0.0000		
A 39	521.5839	193.8061	0.0000		
A_38	538.0794	311.2865	0.0000		
A_37	421.8060	351.5195	0.0000		
A_36	503.4790	240.8788	0.0000		
A_35	275.3579	182.9432	0.0000		
A_34	252.4251	226.3949	0.0000		
A_33	305.1303	247.3160	0.0000 0.0000		
A_32 A_31	247.1948 254.8391	316.9191 271.4558	0.0000		
A_31 A_30	204.6351	353,9335	0.0000		
A_30 A_29	298.2907	348.7032	0.0000		
A 28	390.4243	279.5024	0.0000		
A 27	458.0157	318.5284	0.0000		
A 26	585.9567	331.4030	0.0000		
A_25	631.8223	332.6100	0.0000		
A_24	640.6735	268.6395	0.0000		
A_23	630.6153	199.0364	0.0000		
A_22	544.1144	190.9898	0.0000		
A_21	435.0829	197.0248	0.0000		¥
- Data fo	rmat				
Numbe	er a		Number		1
X	,	->	Y		
Y			ž	V]
Z	`		Z	<u> </u>]
				×	1
				*	
Column	s separator			[Spa	acel
					•
File					

6.3 Load points from file $\stackrel{\clubsuit}{\rightarrow}$

Command: ZWGEO: IMPORT

Command inserts into drawing points defined in text files.

After run command application will display window:

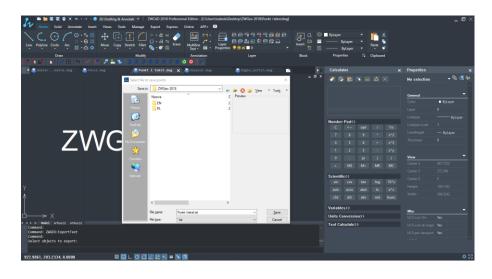
Points import	×
data format	
Columns order	YXZND ~
Columns separator	[Space]
Data file	
Draw	Close

In this window User may select format of file with data, columns order and separator of columns, also User may select file with data. After click button [Draw], application will insert points, numbers and blocks symbols if contained on data file.

6.4 Save text to external file

Command: ZWGEO:ExportText

By this command You can export values of texts into external text file. After run command it's enough to select Texts or MTexts and path to text file where data will be stored.



6.5 Inserts all rasters images from folder 🎢

Command: ZWGEO:RastersFromFolder

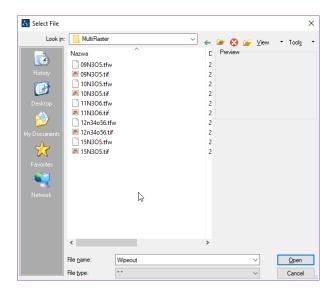
Insert all raster images from selected folder into project.

Przeglądanie w poszukiwaniu plików lub folderów	\times
Wskaż katalog z plikami obrazów	
	_
Ten komputer	^
> 🔮 Dokumenty	
>	
> 👌 Muzyka	
> 📰 Obrazy	
> 🖶 Pobrane	
s nuluta	~
< >>	
Eolder: Ten komputer	
OK Anuluj	

6.6 Inserts many selected raster images F

Command: ZWGEO:MultiRaster

Function will let You select many raster images, and insert it automatically using positioning file.

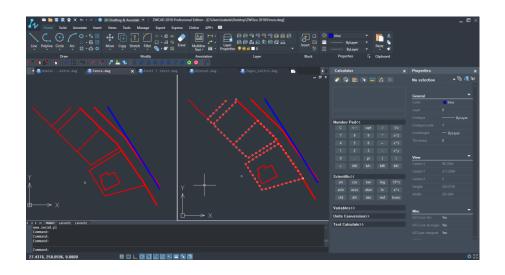


6.7 Insert fence markings

Command: ZWGEO:Fence

Draw fance by multiple copy of selected object along selected path. To draw such fence You should:

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



On picture above You can see project before and after run command.



Command : ZWGEO:MarkCoordsWithLeader

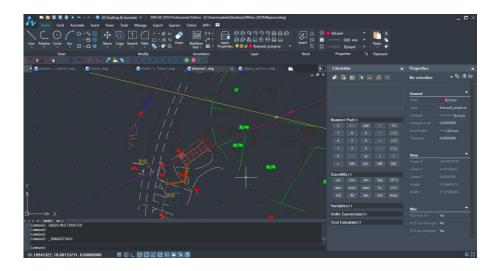
By this command You can mark points in project by descsribe coordinates X and Y.

Application will ask You to pick point and insert description block in picked 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.

6.9 Insert array of crosses

Command : ZWGEO:MarkCrosses

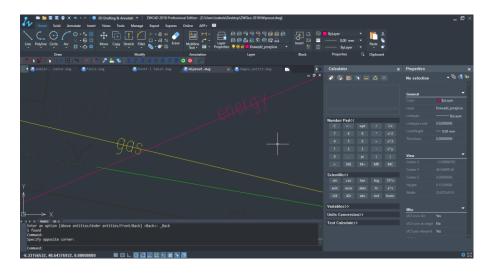
Command will draw array of crosses in range – windows selected by two oposite points.



In the command bar You have to specify distanse between cross marks.

6.10 Mask entities lebow MText 🏋

Command : ZWGEO:Wipeout



This command help You to make drawing more readable by covering objects under MText by wipeout. All You need to do is run command and select MText entity. Everything under this MText will not be visible, but it will there like line on picture above, will not be split into two separate lines but only not visible in rande under MText.

$\begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\$	Manage Export Express → ▲ ≪ ↓ th Filet the main the filet the f	Online APP+		WGeo 2018(Wipeout.dwg)	•			0,00 mm ByLayer		Poste			
Draw 2 15 07 15 2 22 15 14 2 2 2 2 5 7 2 2 5 7 2 5 7 2 5 7 2 5 7 2 5 7 2 5 7 2 5 7 5 7	Modify	Annotation			BA	lock	Prope	nties		Clipboar			
🔻 👼 domiarkatne.dwg 🛛 👼 Fence.dwg	Punkt i tekst.dwg	Nipeout.dwg	× 📑		-	< ۵	Calcula	ator				Properties	
						- • ×	0	6				No selection	a 🎜 🖉 🚽
												General	
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1							asin r2d	dZr	abs	md	trunc		
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Command:							Text Ca	(culate)					
Command: .undo													
Enter the number of operations to undo or [Auto/Cont AI_DRAWORDER Command:	tro1/Begin/End/Mark/Back]	(D: 1											
-5.84056941, 48.31059353, 0.00000000 🖩 🖽 🛓													\$ 5

6.11 Move Above

Command: ZWGEO:MoveAbove

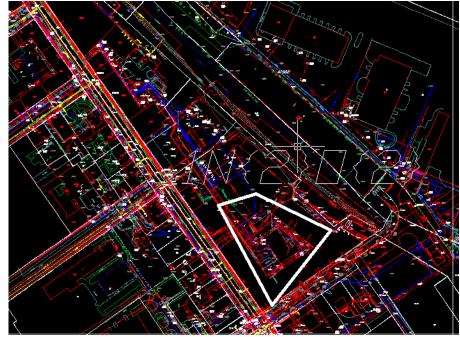
This command is very usefull with connection with previous one. In such example You should run command ZWGEO:MoveAbove and select those entities, which should be over the other ones, and then select one entity which should be at the bottom of draw order.

\times	<pre>Command:draworder</pre>						
	Select entities to change draw order:						
	1 found						
	Select entities to change draw order:						
	Enter an option [Above entities/Under entiti	es/Fr	ont/	Back]	<back>:</back>	_A	
	Select reference objects:						
	1 found						
	Select reference objects:						
	Command:						
	Command:						
2	203.0414, 271.9406, 0.0000		3 Ц	٩P] 🔟 🟒	+	+. 🛲
<u> </u>	203.0414, 271.3400, 0.0000						

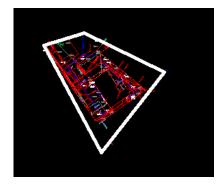


Command : ZWGEO:TrimMap

Maps can be cut by using a single button. Select an area outside of a closed polygon. Once an area to cut is selected (LINE, POLYLINE, ARC, CIRCLE, ELLIPSIS, IMAGE or TEXT)



And an area outside of the cut line, the effect will be similar to the one presented below:



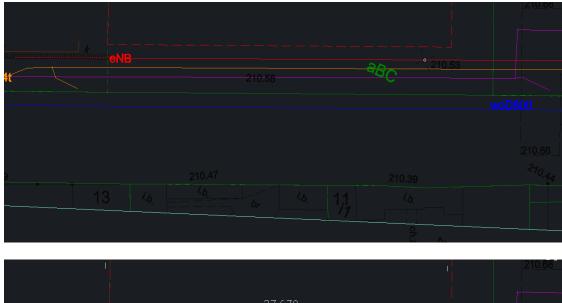
This functionality makes work much smoother and easier.

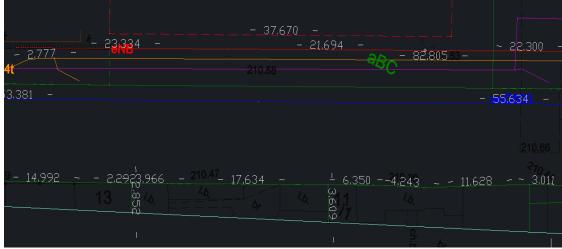
Cutting maps is considered as a work improvement since at the end of the design process, almost always maps require manual cutting, as the terrain is too large and as confirmed by many users, this part of work is the most time consuming one when working on maps.



Command: ZWGEO:FrontMeasure

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

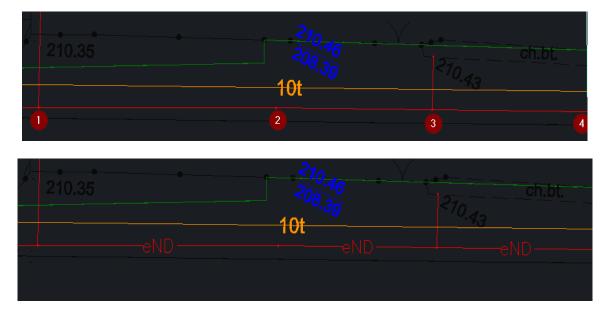




6.14 Layer label – **New in ZWGeo 2020**

Command: ZWGEO:LayerLabel

When we run the layer label command, we will have to select polylines and in the middle of (1), (2), (3), (4) eND (name of the layer) will be shown:



Layer label (1) adds a description to each segment of a selected polyline as well as the name of the layer (2)

Właściwości	×
Mtekst	▼ 🔟 🛃 😽
Ogólne	<u> </u>
Uchwyt	
Kolor	JakWarstwa
Warstwa 2	eND
Rodzaj linii	——— JakWarstwa
Skala linii	1.00
Styl wydruku	
Szerokość linii	JakWarstwa
Hiperłącze	
Geometria	<u> </u>
Pozycja X	6599838.54
Pozycja Y	5741401.59
Pozycja Z	10.18
Tekst	<u> </u>
Zawartość	
Styl	ZWGeo_LayerLabel
Opisowy	Nie
Wyrównanie	Centrum symetria
Kierunek	Poziomy
Zdefiniowana szerokość	0.00
Wysokość tekstu	0.75
Obrót	100.6276g
Współczynnik odstępu	1.00



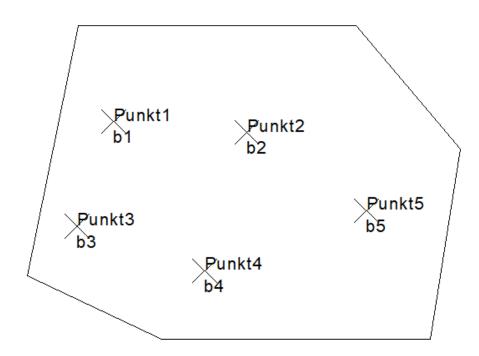
Command : ZWGEO:ATP_START

Function can be run by using the command ATP_START

Once the function is started, the following table will appear:

A	TP Palete					×
•	×					#
Г	ID Column	Name	х	Y	Z	

To which we can add points from drawing with this button **bar and select** objects (points in this case), just as presented below:



We will get the following result:

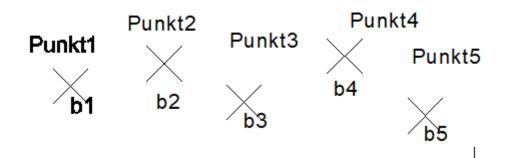
ATP Pal	ete					
* X						
ID	Znajdź	Nazwa	Х	Y	Z	
3C55	[*]	ZWGEO_Pt	446,207	172,375	0.000	
3C1C	[*]	ZWGEO_Pt	370,510	144,209	0.000	
3BE3	[*]	ZWGEO_Pt	310,657	165,040	0.000	
3BAA	[*]	ZWGEO_Pt	390,251	208,936	0.000	
3B71	[*]	ZWGEO_Pt	327,967	214,038	0.000	

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	Х	Y	Z
3B71	[*]	ZWGEO_Pt	400,000	150,000	25,000
2011	[*]		200 251	200 020	0.000

After changing coordinates of Point1, it will move to a different place.

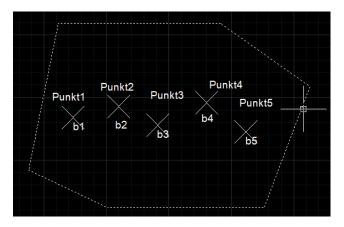
It is also possible to move points in the model:



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

Å	ATP Palete									
ŀ	+ X									
Г	ID 🔺	Znajdź	Nazwa	Х	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:



The table will display all information regarding coordinates of polyline vertexes, its area and peremiter.

×											
ID 🔺		Znajdź	Nazwa	х	Y	Z	NUMER	SYMBOL	Н	Powierzchnia	Długoś
3B71		[*]	ZWGEO_Pt	323,356	183,939	0,000	Punkt1	b1			
3BAA		[*]	ZWGEO_Pt	359,888	192,734	0,000	Punkt2	b2			
3BE3		[*]	ZWGEO_Pt	391,007	177,851	0,000	Punkt3	b3			
3C1C		[*]	ZWGEO_Pt	430,245	195,778	0,000	Punkt4	b4			
3C55		[*]	ZWGEO_Pt	461,628	172,572	0,000	Punkt5	b5			
3C5A	>	[*]	Polilinia							27254,273	636,017
3C5A_0				350,559	111,935	0,000					
3C5A_1				476,134	111,935	0,000					
3C5A_2				512,626	208,739	0,000					
3C5A_3				441,220	259,222	0,000					
3C5A_4				311,243	259,222	0,000					
3C5A_5				287,478	141,862	0,000					
3C5A_6				350,559	111,935	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.

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	- 8 ×		ĸ						
		ID		Znaj Nazwa	X	Y	Z		Długość
		26E	>	[*] Poliinia				24832	428,776
		26			159,602	98,941	0.000		
		26			231,869	107,804	0,000		
		26			327,315	142,574	0,000		
+		26			335,497	177,344	0.000		
		26			347,768	249,610	0.000		
		26			344,359	302,106	0.000		
		26			305,499	309,605	0.000		
$ \downarrow \downarrow \downarrow + +$		26			252,322	308,924	0,000		
		26D	>	[*] Poliinia				9224,2	349,666
		269	>	[*] Pollinia				35617,	770,915
$ \bigcirc \langle \rangle$		26			117,700	126,998	0.000		
		26			-114,099	126,998	0.000		
		26			-114,099	280,657	0.000		
		26			117,700	280,657	0,000		
		25C		[*] Punkt	-2,919	200,943	0,000		
		25B		[*] Punkt	31,169	207,761	0.000		
Ϋ́		25A		[*] Punkt	45,853	242,898	0.000		
Δ.		259		[*] Punkt	-4,493	261,777	0.000		
		258		[*] Punkt	-14,457	226,640	0.000		
		257		[*] Punkt	-57,460	211,956	0.000		
\longrightarrow ×		256		[*] Punkt	-66,900	239,227	0,000		

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

🖳 Settings			x
ê∎ ≵ ↓ 📼			
✓ Export			
Column separator			
⊿ View			
Decimal Separator			
Decimal Precision	3		
Decimal Separator			
Decimal Separator			
	Save	Can	cel

6.16 Activate ZWGeo 2020

Activation has been described in point 5 of the user manual.

J

6.17 Updating ZWGeo 2020

ZWGeo 2020 as well as other applications provided by UI SZANSA Get periodical updates to the applications. In order to check if an update is available, click on the corresponding icon.

🛒 Setup - ZWGEOUpdater	
	Welcome to the ZWGEOUpdater Update Wizard
	This will update ZWGEOUpdater version v.2020.0 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
ZWGED	
	Next > Cancel

6.18 ZWGeo 2020 User Manual

User manual is launched after clicking on the icon. The manual is opened in a PDF program.

7 ZWGEO Switch

Function bar responsible for the creation of groups of objects by specifying their visibility.

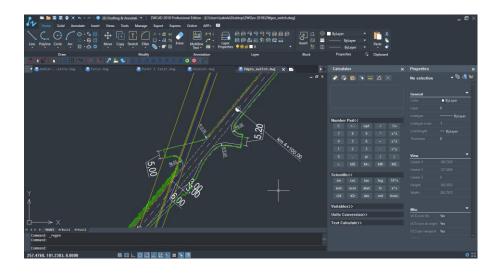


7.1 Turn on\off group **12345678**

After run the command, indicate the items that will be one of the first group of objects. After selecting the items and then approve the Enter, previously selected objects will not 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.

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Command: _regen Command:									
Comand:									
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The User can made eight groups of objects in the drawing, they are formed in an analogous manner.



7.2 Turn on\off all groups ON OFF

Functions allow You to turn off or turn on all previously defined object groups 1-8.

8 Calculation module

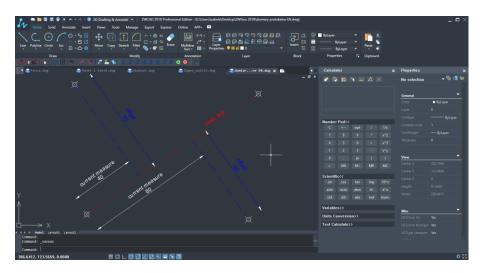
8.1 Rectangular offset

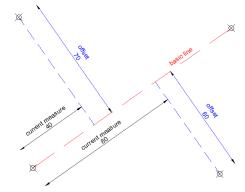
Offsets square is a function used to measure the details terrain.

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.





9 Additional information

9.1 Icons are not visible after installation

After install ZWGEO and run ZWCAD, icons should be visible. If You use Ribbon interface, Icons may not be visible, in this case run command _Toolbar.

Menu Group	Toolbars	
A994 ZWCAD ZWGE0_2018_0		<u>R</u> ename <u>D</u> elete
□ <u>L</u> arge Buttons ☑ <u>S</u> how ToolTips		

On displayed window please activate tab "Toolbars". In list please select ZWGEO, and next please mark field ZWGEO 2020. After close window, Toolbar should be visible.

If on this window, there is no ZWGEO 2020, application is not loaded. In this case please follow steps from point: **Błąd! Nie można odnaleźć źródła odwołania.**

9.2 Manual application load

After installation of application, it should be automatically load to ZWCAD. Function should be available and toolbar with icons should be visible. If for some reasons it's not load automatically, You should load in manually. To do it, You should follow steps:Run command _appload and You will see window:

oad Application Files		×
Application Files:	✓ Save updates	
		<u>A</u> dd File
		<u>R</u> emove File
		Load
		<u>U</u> nload
		Add to startup suite
		Startup suite
		<u>0</u> K
Help		

- 1. Click Add File.
- In new open window change default extension to .zel. than find path where application have been installed. Default its C:\Szansa\ ZWGEO\2020\EN, select file ZWGEO.zelx and click Open.
- 3. On appload window click Load to load application,
- 4. If You want application to be loaded automatically each time You run ZWCAD, please select ZWGeo.zelx on list of files to load, and click button Add to startup suite.

9.3 Manual menu load

1. In command line please type "__menuload" ZWCAD will display window.

Load/Unload Custo	mizations			×
Loaded Custor APP+ ZWCAD ZWGE0_201			<u>U</u> nload	
<u>F</u> ile Name:			Load Bro <u>w</u> se	2
		4	<u>C</u> lose	<u>H</u> elp

2. Please press button [Browse] [1]. In new window.

🜆 Select Customization File				×
← → → ↑ 📙 « OS (C:) → Szansa → ZW	/GEO → 2018 → EN → Menu	ٽ ~	Przeszukaj: Menu	Q
Organizuj 🔻 Nowy folder			-	•
 Ż Szybki dostęp OneDrive Ten komputer Šieć Grupa domowa 	ZWGeo.cuix			
		2		
<u>N</u> azwa pliku:		~	Customization files(*.cu	ix) ~ Anuluj

Please find file "ZWGEO.cuix". Default location of this file is:

C:\Szansa\ZWGEO\2020\EN\Menu****, but You may change it in time of installation.

- 3. Select file and press [Open].
- 4. Load file by press "Load"[2].
- 5. On list [3] new item will be display, that confirms correct load of menu.
- 6. By button "Close"[4] You may close window. On main window of ZWCAD, new toolbar with icons will be display.