

ArCADia

Work in a CAD environment using BIM tools. Object drawing, quick documentation creation.

Software based on a well-known and developed for many years CAD platform, which guarantees full compliance with the DWG format.

The first Polish software for the construction industry allowing the designer to work in accordance with BIM technology.

Software that uses many solutions that significantly accelerate design work in the construction industry. By using objects such as a multi-layer wall, doors or windows, the user can quickly create CAD drawings, without losing anything from the full compatibility of the project with the DWG format.

The ArCADia program ends Autodesk's monopoly on the market of CAD programs, bringing to an end unjustified overpricing and proving that a program with high quality and functionality can be available at a price which is corresponding to the capabilities of each designer.





ArCADia software FEATURES:

- Support BIM technology, object-oriented architectural design.
- Ready-made architectural elements: multilayer walls, stairs, bases, columns, chimneys, windows and doors.
- · Comparing and merging documents.
- Automatic floor entry, additional support for Teriva floor design.
- Drawing of flat and spatial technical documentation and its writing to the native dwg format characteristic of most CAD applications.
- Work on layered drawing with the ability to use groups, blocks, external references and raster backdrops.
- Precise drawing with the ability to use Cartesian and polar coordinates, characteristic points and tracking.
- Work on a real-world model and the ability to print at any scale from a specified sheet of paper.
- Generating statements.
- Supporting the IFC format. A possibility to exchange design data with other programs.

Included FEATURES:

- BIM FEATURES
- ADVANCED DRAWING TOOLS

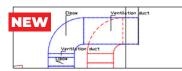
BIM FEATURES

BASIC TOOLS | ARCHITECTURE | CONSTRUCTION | WATER INSTALLATIONS | SEWAGE INSTALLATIONS | GAS INSTALLATIONS | HEATING INSTALLATIONS | ELECTRICAL INSTALLATIONS | COMMMUNICATION

ArCADia BIM SYSTEM (BASIC TOOLS WHICH ARE INCLUDED IN PRICE)



A change in the program's licensing, introducing network licenses.



Changes in creating a level view to facilitate the drawing of installations.



Tutorial videos available at command icons.



Changes in the program installation, from now on libraries of surfaces and 3D objects are downloaded as separate installations.

Deserts	25.0x3.25mm	Property	Dimensions
NEW	3.20m	Name	Dimensions
Text	BIM		DN diameter Element grou
Address	arcadiabimsys	Value	Element state
File	C-\ Program E	Unit	Flow - Hydrar

Expanded element description options.

Group 1

Ν

Man 2

Standard library

Running people

Walking people

Standing people

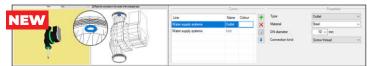
Sitting people

options.



New version of dynamic coordinate input and a setup window for dynamic input.

Introduced a new level of detail mainly used for installation elements.



Option of inserting system objects (devices, fittings) with a user-defined 3D view (based on .dwg .3Ds, .obj., .O2c, .rvt and .rfa files). The element defined in this way can be connected to the installation being designed in the program through the function of editing the location of connectors.



PBR texture library.



Smart TOP 10

A smart list of the most often used commands that are automatically memorized when working on a project, creating a personalized tool palette.



Library

Built-in library that allows for detailing with 2D symbols and 3D objects needed in the drawing.



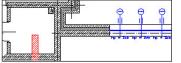
Dimensioning

Possibility of entering linear and angular dimensioning.

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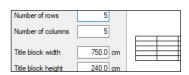
Project Manager tree

Managing views and the displayed information through the clear tree of the Project Manager.



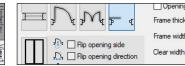
Comparing

The possibility to compare two versions of a project created as an Ar-CADia system model in the scope of new and modified system elements.



Drawing tables

Creating and inserting drawing tables with the option of saving them to the program library.



Expanded element description

Walls, windows, doors

Inserting elements such as wall, pipe, etc. using the smart tracking function.

Choose branches from the documents:	Α	в
Architecture	\checkmark	~
Electric installations	✓	
Gas installations	~	2

Merging

The possibility to merge the building model from an architectural design with the installation design models to create one complete model of a building project.

Template r	ame	+
Standard	New template	
	Enter template name	
	New template	

Custom setting

Saving custom settings for elements (pens, fonts, default element sizes, etc.) in the project template.

Visualization

Showing elements drawn in the view in a classic or the new 3D view rendered in real time (visualization using a 3D game engine).



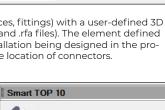
Collision

Collisions list of all or individual Ar-CADia system elements on a view, 3D view and a clear list.



Elements

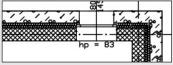
Built-in library of all elements types, with the possibility of expansion.



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ARCHITECTURE



Choice of defined or drawing any multilayer wall. Built-in catalogue of construction materials.



Inserting an automatic roof on the closed external walls contour. Inserting of roof windows and dormer windows.



Inserting of window and door woodwork in a parametric way. Inserting woodwork.

v	Parame
Prefix	Collect from level
Number	2
Name	Kitchen

Creating a level with the possibility of copying selected elements.



Automatic creation of rooms from the closed outlines of walls and virtual walls, assigning names, functions, temperature and lighting demand.



Inserting automatic ceilings on the closed external walls contour.



Defining one- and multi-flight stairs and winder stairs in any view.

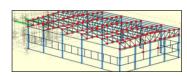
CONSTRUCTION



Constructing the structural systems of Teriva ribbed-beam roofs, containing all the basic elements of the system: ceiling beams, reinforcing ribs, hidden ribs, exchanges, supporting mesh and additionally all necessary material lists including the elements needed to make the ceiling, completed with reinforcing steel and monolithic concrete.



Inserting the binding joist with the insertion of longitudinal reinforcement and stirrups.

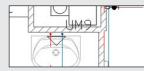


Transferring the location and the material as well as the bar cross-section to the construction view. Passing the remaining elements of the architectural model in the form of a rendered or translucent 3D view, and in the case of modular axes, bar elements and surface elements also in the form of their active underlay.



Automatic 3D construction view created on the basis of a three-dimensional architectural model of a building.

WATER SUPPLY INSTALLATIONS



Drawings of the internal water supply system | connection point | water meter set | pipelines.

Δ	Q	PS1	Level 1	Incorrectly connect
8	Q	PS1	Level 1	Unconnected pipe
	Q	PS1	Level 1	Incorrectly connect
	Q	PS1	Level 1	Unconnected pipe
-	-	-		

Checking the installation for connections correctness.



Automatic generation of connection fittings, creation of point numbering and installation description. Creating own templates.

€	Shut-off valve
\triangleleft	Sink faucet
ج	

Generating ready-made materials lists, devices and connection fittings included in the project.



Inserting fittings and devices from the manufacturers' library. Inserting devices with individually set shapes and dimensions defined by the user (eg DHW heaters). Inserting into the program library typical element systems.



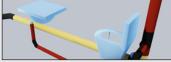
Applying risers and distribution pipes from a library. It is possible to simultaneously run several parallel conduits with different functions and connect them intelligently. Drawing simplifications that allow you to change the level of many elements of the installation at the same time.

ArCAD

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SEWAGE INSTALLATIONS



3D installation preview, which facili-

tates the correcting of irregularities

in the pipeline route not shown on

the view.

m No

Generating ready-made materials

included in the project.

nections correctness.

lists, devices and connection fittings

Name

Checking the installation for con-

Three-way DN100 Elbow

Three-way 30 PVC DN100 Elbow 1 PVC DN100



Entering the pipeline route of the

sewage system with a given slope

on the view.

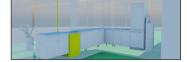
Grey and black wa

Pipelines with automatic distinction between outflow channels, risers and connecting pipes for accessories

A	Q	Installati	Location Level	Description Unconnected pipeline
A	Q		Level	Unconnected pipeline
A	Q		Level	Items unconnected to
A	Q		Level	Items unconnected to

Generating ready-made materials lists, devices and connection fittings included in the project.

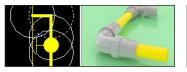
GAS INSTALLATIONS



Drawings of the internal gas installation.

Global library	Project library		
🤣 🔛 📈 🖻	🨻 🔛 📈 🔛		
Y 🗁 Standard library	✓ 🗁 ASBER		
Y 🗁 ASBER	Y 🗁 Kuchnie gazowe		
> 🚞 Kuchnie 🤉	Ø GRE-1200-29		

Possibility to easily and quickly enter additional databases to the main library.



Automatic generation of a set of connection fittings.

		Installati	Location	Description
×	Q	GB1	Ground floor	Unconnected pipe
A	Q	GB1	Ground floor	A appliance or val
A	Q		Ground floor	Items unconnecte
A	Q		Ground floor	The element is no

Checking the installation for connection correctness.



Ready-made lists of materials and lists of elements.



Fittings and devices from the manufacturers' library.



Roon number	Room name	Room temperature ti (*C)	Receiver power [V]	Type/Series of type
Level 2				
Ungrouped		- 252		
5	Bathroon	24.0	506	Leros LERI206P
10	Room	20.0	750	typ 20
2	Room	20.0	900	typ 21
9	Room	26.0	2500	

Ready-made materials lists, devices and connection fittings. Lists of receivers in rooms.



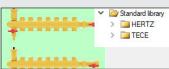
Inserting the fastening with the possibility of defining parameters characteristic for the fastening used.



Heat receivers, i.e. panel, ribbed, bathroom and channel heaters, heating pipes, air heaters and fancoil units.

		Installati	Location	Description
0	Q	KPS1	Level 0	The installation de
A	Q		Level 0	Unconnected pipe
A	Q		Level 0	Unconnected pipe

Checking the installation for connection correctness.



Fittings and devices from the manufacturer's library.



Automatic creation of point numbering and installation descriptions. Creating own templates.



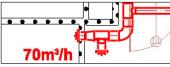
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ArCAD

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Creating drawings of the internal ventilation system - from intake/ exhaust elements, through ventilation devices (fans, heaters, fire dampers, etc.), to the end elements of the installation in the form of air inlets and outlets.



Preparation of the ventilation flow and usage report based on the object architecture (or user-defined rooms).

ELECTRICAL INSTALLATIONS

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m+



Inserting duct elements and fittings (made of various materials) with round, rectangular and oval cross--sections. Inserting ventilation devices from the manufacturers' library with the option of adding your own

	Nu	Nazwa pomieszcz	Kubatur	Ogrzewanie	Te
Q	13	Pom. biurowe	54.69	Wewnętrzne	
Q	1	Komunikacja	94.63	Wewnętrzne	
Q	2	Pom. biurowe	67.08	Wewnętrzne	
Q	12	Pom. biurowe	34.50	Wewnętrzne	
Q	3	Pom. blurowe	46.16	Wewnetrzne	

obiects.

Saving layouts made of many elements, e.g. part of the installation, to the program library, in order to reuse it. Creating descriptions and saving your own annotation templates



Preview of the installation in 3D view, which facilitates the correction of irregularities in the route of the ducts not shown on the plan.



Possibility to define any number of ventilation systems used in the project and their properties, including air parameters (in terms of temperature and relative humidity).

Rysunek	Nazwa	Oznaczenie
0	Anenostat	WY1 WY1 WY17-WY19
	Centrala namiewno-mymiewna	CV1

Generating lists of materials and devices included in the project, intended for further processing and for the creation of cost estimates and investment valuations.

cation	×	G12 30 cm Circu			
Standard library		TR1/1 300 W			
> aquatec		Type parameters			
> arsvs		regular			

Possibility to assign receivers to a particular distribution board (addressing).



Designation of cable routes.

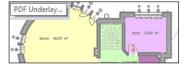
Ite	mName
Ung	rouped
1	Ceiling lamp, IP 20, 1×30W

Generating a list of materials used in the project.

-0--R 1

Installation level

An extensive library of manufacturers catalogues of electrical installation elements.



Import PDF files analogously to raster underlays or with conversion to vector elements. Export to PDF file.



Possibility to enlarge the library of 2D/3D objects with the formats: XOBJECT, ACO, O2C, OBJ, XOBJ3D and DWG

COMMUNICATION

Possibility to modify symbols of entered objects and assign receivers to

Drawing of internal electrical in-

0+

a particular distribution board.

fixtures.

IIII 0

stallations with distribution boards,

sockets, connectors, boxes, lighting

Hatch pattern	ns.dwg
IntelliCAD Lo	go.dwg
Intl space stat	tion dec 98.dwg
Kico hatch nat	AutoCAD 2018 (*.dwg) AutoCAD 2018 ASCII (*.dxf)
iso naten pat	AutoCAD 2018 ASCII (*.dxf)
Main Floor C	AutoCAD 2018 Binary (*.dxf)
	AutoCAD 2012 (* dura)

AutoCAD format from 2.5 to 2018 (DWG, DXF).

Project structure	
✓ ∯ Project: No name	
 Site: Terrain model (designed) 	
✓	
Do Level: Level 2	

IFC file conversion into ArCADia's basic objects (walls, windows, doors, ceilings, roofs).



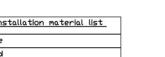
Importing/editing raster images files : JPG, TIF, BMP, PNG.

(Woodwork list (id: 1)	×
r 🕺	RTF (S) 🔊 🗙	ļ
Pens	Save to text editor file (RTF)	•

Export of material lists of elements included in the project to RTF, CSV and to the Ceninwest program.)









DRAWING TOOLS An extended CAD drawing engine

ADVANCED DRAWING TOOLS



Floating data input window at cursor.



The program window is divided into tabs in which the drawings are successively displayed.



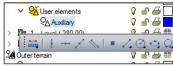
Implemented Lisp programming language interpreter. Possibility to load SDS and IRX overlays.



Creating a three-dimensional CAD project from ArCADia's objects (walls, pipes, cables etc.)

√ 0	white	Continu	0
A-Anno-Scrn	250	Continu	0
A-Anno-Titl	233	Continu	0
A-Anno-Titl	234	Continu	0
A Anna Titl	- 221	Cartin	0

Working on layers. Project management explorer.



New auxiliary options placed in a special group and easily accessible from the left toolbar.

Properties	
All (72)	~ T=
All (72)	
Text (14) Circle (16)	

Docked property panel.

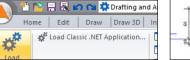


BEDROOM-

New options for measuring length, area and perimeter.

Tool Palettes	bit	3D Mirror
Lipo M	3D Or	
E H Rotate	Order	+ + 3D Array

Displaying tool palettes. Dedicated Express tools toolbar.



Home Edit Draw Draw 3D In

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Entering and defining symbol librar-

ies, blocks, simple and complex texts

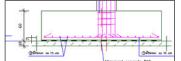
(SHX and TrueType fonts). Additional

multiline text editor. New functions of the word editor: columns, scaling, entering text along the arc and borders, text fitting, rotation, auto

STANDARD

numbering, etc.

Text



Basic tools for creating 2D and 3D drawings.

Standard

Dimensioning assigned to the ele-

to define your own styles.

ment: linear and angular, the ability

Home

Center Lines • Linear

Edit Draw Draw 3D

对 Dimension Styles Manager...



Ability to open and fully edit ACIS solids (format developed by Spatial Technology Inc.). Import and export of ACIS solids in SAT format. Only in ArCADia PLUS.

	-
Starting point for distance:	
End point:	
Distance = 259.7661, Angle in Delta X = 259.7661, Delta Y =	XY F
Delta X = 259.7661, Delta Y =	0.00
Command:	

Automatic field and distance measurement, setting coordinates.

(+) Rotate	Mirror	Arri	Ľ	ר ביו	• 🏑 🗗 👔 • 🥔 🛲 💺
Мо	dify 🔻	_	Line	Polyline	Construction

Possibility to fully modify and edit the properties of all drawn elements

←0→	Î	Vertical	~	Angled
Construction Line •	, ↓ ↓	Both Horiz		, angled
← Horiz	ontal		1/	Bisect Angle

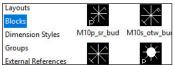
New options for construction lines.

Island display style:

A wide range of hatch patterns. New hatch definition and gradient fill window.



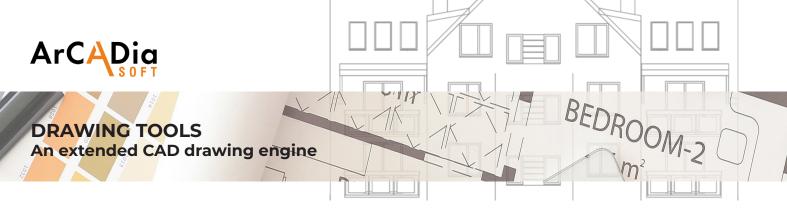
A multiline drawing option.



Enhanced block reference and dimension support capabilities.

Quick Sele	ct are		~
Properties:	Color _		
	Layer	Operator:	= Equals
	Linetype Linetype scale	cale	= Equals
	Print style		<> Not Equal > Greater Than

Options: Select similar (with adding to the selection and the settings window), Multiadogy, Multiline editor. Dashed line.



ADVANCED DRAWING TOOLS

۵ 🖾	ACIS In	
Point Cloud Attach Underlay Image•	Autodesk Point Cloud (*.pcg)	
	Autodesk Point Cloud (*.pcg) Point Cloud Project (*.rcp)	
	Point Cloud Scan (* me)	

Possibility to add point cloud in RCP / RCS format.

Drawing Units	Coordinate Input	Display Entity Cre		
Draw ortho	-			
	nagriet			

Auxiliary grid, orthogonal drawing functions, polar tracking.

Facet Model Meshes New types of 3D objects (primitives) - Facet Modeler (ODA surface modeler), along with basic editing

冒 Cylinder |

🕒 Torus

Pyramid 🌑 Sphere

🛛 Вох

functions.

Cone

Union

🗇 Subtract 📔

🗖 Intersect 🌽

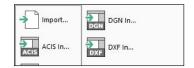
4	Entity Snap Settings	0	Nearest Snap
		1	Endpoint Snap
	Tracking Point	*	Midpoint Snap
Г °	From Point Snap	0	Center Snap
1-1	Mid Between 2 Points 9	L	Pernendicular Sna

Extended recognition of snap points (ESNAP), e.g. for lines - center, end points and intersections of lines.

Possibility of photorealistic visualization and rendering. Drawing in hidden line mode and shading in real time.



Modification of the top menu, ribbons (panels and tabs), toolbars, command status bar and keyboard shortcuts.



Possibility to open ACIS solids (without option to create and fully editing). DWF, DGN and DAE formats support. Export of STL files.



Precise printing by setting all print parameters. Possibility to create a non-rectangular viewport in the paper space.