REMAK

EXPORT TO IFC (REVIT)

Thank you for your interest in the AeroCAD Design Program and above all the new export function to IFC format. The following lines will show you how to export and work with the IFC files afterwards.

1. When a RMK project (AeroCAD output) is finished, select **Export to IFC (Revit)**... option from the project menu.

	AeroCAD	- [Ax0138	83583.rmk]	
	<u>P</u> roject	Edit	<u>O</u> bjects	<u>D</u> isplay	Services
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=6				Ctrl+S	
	🖥 S <u>a</u> ve a	S		Ctrl+Shift+S	
	Export			Ctrl+Shift+E	
Ē	Export t	o I <u>F</u> C (Re	vit)	Ctrl+Shift+I	
÷	Project	3 information	n	Ctrl+I	

You can also use the keyboard shortcut **Ctrl + Shift + I**. Check/change current language version of the AeroCAD program before exporting since the text legends of IFC file will match that language.

2. Then, the **system save file dialog** will open. You can change the default file path (1), enter file name (2), select type (3), and save all (4) afterwards.

The default file type is * .zip, which means that IFC files will be stored in bulk, one file for each device in the project (the file name is set according to the device number) and then compressed to * .zip. The second option is to save IFC file based on the active device only.

→ × ↑ → Tento počítač	> Místní disk (C:) > AeroCAD 🚺		√ Ū	Prohledat: Aero	CAD	
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Users who do not work with AeroCAD program can request an IFC file from their REMAK contractor or business partner.

Note: This document does not serve as AeroCAD manual. There is a separate **AeroCAD 6 - user guide** available at https://www.remak.eu/sites/default/files/files/aerocad_userguide_en.pdf



3. The IFC file is primarily intended for use in **Autodesk Revit** (versions 2017 and later are supported). REMAK_ Revit_plugin is required for correct import. The plugin installer is available here: https://www.remak.eu/en/webform/download-remak-revit-plugin

or can be downloaded directly by clicking on the link displayed in the info window which appears when saving the IFC file:

AeroCAD
To use the IFC file in Autodesk Revit, download and install our plugin, which you can find at <u>https://www.remak.eu/en/webform/download-remak-revit-plugin</u>
ОК

4. After downloading the installer, close Autodesk Revit and **start the installation** by running the REMAK _Revit_plugin.exe file

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	~	Δν0140 200 (5)	26.00.2018 11-41	RFMAK AeroCAD	63 kR

Note: The installer must be run with Administrator Privileges

5. Follow the instructions of the installation wizard

Installer La	anguage	×
R	Please select a language.	0
	English	~
	OK	Cancel









6. Open the Autodesk Revit project in which the IFC file should be imported. In the **Add-Ins** menu, you can choose to import the REMAK IFC file (1), or you can add the option to the Quick Access toolbar (2)

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ß	5	P	Help		Pohled		R				
Modify	Batch Print	Transmit model(s)	About	Kontrola Správ	a O aplikaci	Launch WSM	Convert RFA About Formit	IFC import			
Select 🔻	Batch Print	eTransmit		Model	Review	WorksharingMonitor	Formlt Converter	REMAK IFC import			
				_				Imports the geometry into Revit from the IFC file. The IFC file			
Propertie	s			×	Main Electric	al Distribution	Typical Room WSHP X	must be created by AeroCAD (design application by REMAK a.s. company).			
	Floor Plan			•				Currently used version of plugin to import the geometry is 0.3.7.			
Elect Pla	n Tunical Poor	m W/CLID		- Edit Type				Press F1 for more help			



The program **checks for updates** on start-up. If there is a new version, it will automatically update. For these purposes, you need to have **write permission to the folder**: c:\ProgramData\Autodesk\ApplicationPlugins\REMAK_ Revit_plugin

If the right is not set correctly, a warning appears when Revit is run:



In this case, we recommend to contact your administrator. Note: In some cases, running Revit with the **"Run as administrator"** option can solve the problem (from the menu that is activated by right-clicking on the startup file).

7. If you want to import the REMAK IFC file, **click on the Remak import IFC option** (1), then the system dialog opens. Navigate to the directory where the IFC file is located (2) and select it (3).

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Vložit	Poznámky	Analyzovat	Objerny a pozer	mek Spolupracovat	Pohled Správa	Doplňky	Upravit		
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8. After selecting a file and confirmation, the IFC will start to load into your Revit project.



This process should take from a few seconds to about a minute, depending on the complexity of imported device.

9. Once the process is complete, HVAC unit can be placed according to your requirements



10. Connect HVAC ducts and media distribution pipes to prepared connectors.

Air connectors are available on all connecting surfaces (1, 2), media connectors (3) on all exchangers and sanitary to connect condensate drains.





11. In the properties of the imported unit you will find **basic information**, data and parameters, everything with text descriptions in the required language.

Properties		\$ Main Electric		💾 Typica	al Room V	VSHP X	
Hvac	Type Propertie Family:	is Hvac	G			X	
Mechanical Equipment (1)	✓ 🗄 Edit Type	r ciriiry.	Tivac				Load
Host	Floor : FB 15.0 - Teppich	Type:	Hvac			~	Duplicate
Offset	0.0						Rename
Electrical Engineering	*						Rename
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Nominal power input CU VCS	1560.00 W		Parameter			Value	=
Power voltage CU VCS	3×400V+N+PE 50Hz					value	
Electrical - Loads	*	Mechanica					*
Panel		Classificati			None		
Circuit Number		Identity D	ata				^
Dimensions	*	URL			www.ren	nak.eu	
Height	920.2	Type Imag	e				
Length	3100.8	Keynote					
Weight (+-10%)	850.290 kg	Model			AeroMas	ster XP 06	
Width	1970.1	Manufactu	rer		REMAK		
Mechanical	*	Type Com	ments		Zařízení	č.2	
E1	0.00 L/s	Description	1		Air hand	ling unit	
E2	0.00 L/s	Assembly	Lode				
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12	0.00 L/s	Assembly [Description				
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Total outputs for cooling	0.00 W	OmniClass	Title		Climate	Control (HVAC)	
Total outputs for heating	4780.00 W	Code Nam	e				
System Classification	Supply Air, Hydronic Return, Hyd						
System Name							
Mechanical - Flow	···	1					
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12. The exported IFC file is universal and can be imported to any browser (XbimXplorer, BIMVision, etc.) or program (Allplan, ArchiCAD, etc.). IFC and text in Unicode support is required for correct loading (some older browsers may not support this text encoding standard).

