TUTORIAL BIM







BIM

DESCRIPTION

- Import BIM data
- Create points on BIM file
- Drawing on BIM file

GOAL

• Import and manage BIM data





New Project

				X-PAD Office Fusion
X-PAD Office Fusion	New			
Open other projects				
Options			TEMPLATE	
About X-PAD Office Fusion		Xa	Xa	
Exit	New project (Wizard)	Empty project	From template	

• Click on Empty Project to create a new empty project





Import BIM file

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	1	Surfaces		•	
4	1	Drawings		ŧ	
		Main drawing		ŧ	
	\cong	Sections groups		•	
	0	External documents		Ŧ	I
	6	Point clouds (Registered)		ŧ	
	1	Point clouds (Not registered)		ŧ	I
	<u></u>	Raster maps		•	
	۵	Orthophotos		ŧ	
4	3	Projection planes			
		< None			
	8	Clipping planes		•	¥
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5] P	roject Manager			
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FILE	HOME	VIEW	DRAW	EDIT	SURVEY	SUR	FACES D	ESIGN 3D	X-SECT	TIONS CA	DASTRAL
		0							Ħ		
Project	Scanner	TPS	Digital level	Controller	X-PAD Survey	Text	DWG/DXF	LandXML	Survey data	BIM model	Scanner data
Settings		Tr	ansfer					Import fil	e		

It is possible to import a BIM file from **Project Manager** menu or directly from **Home** menu





Import BIM file

Building Information Model			<
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From **Building Information Model** menu Click on **1**, than select **IFC** file. It is possible to select a different layer for all the entities





Graphic View







BIM Entity tools

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Project N	umber 🔮 🛆	ilding l	nfo	mation Mo
⊿ Defau	t 🔮	Clinic	_A_	20110906.ifc
⊿ lfc	Building			
	TOF Footing	121407020	resource and	2248
	IfcDoor	oject N	lum	ber
	M_Curtain Wall Dbl Chain Link:M_Curt 🌻 🖉 🔺	Defau	lt	
	M_Curtain Wall Dbl Chain Link:M_Curt 🌻	⊿ lfc	Bui	lding
	First Floor		ТС	F Footing
	▶ 1AC1 ♥		-	lfcDoor
	• 1AC2		1	10000
	• 1AC3			M_Curt
	▶ 1AC4			M_Curt
	• 1AC5	- 4	Fir	st Floor
	▶ 1A01 ♥			1AC1
	▶ 1A02			. IfcSpace
	▶ <u>1403</u>			140
	▶ <u>1A04</u>			TAC
	▶ <u>1A05</u>			▲ IfcFlow
	▶ <u>1A06</u>			M_F
				1AC2
	▶ 1A08			IC C

ting or Curtain Wall Dbl Chain Link:M_Curt... Curtain Wall Dbl Chain Link:M Curt... Select entities Zoom Space Isolate 1AC All entities ON Flow . Expand all MF x 2... . + Collapse all

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From **Building Information Model** menu it is possible to select some tools directly from the icons on the bottom of the menu or by right click with mouse on the entity of the list





BIM Entity Properties and Layers

operties	
IFC entity	
Name	M_Curtain Wall Dbl Chain Link:
Туре	lfcDoor
Layer	A-DOOR
Pset_DoorCommon	•
Reference	M_Curtain Wall Dbl Chain Link:
IsExternal	Yes
FireRating	Fire Rating
PSet_Revit_Identity Data	
Mark	1F01a
PSet_Revit_Other	
InstallationDate	InstallationDate
SerialNumber	SerialNumber
WarrantyStartDate	WarrantyStartDate
BarCode	BarCode
AssetIdentifier	AssetIdentifier
TagNumber	1F01a
Set_Revit_Phasing	
Phase Created	New Construction
PSet_Revit_Dimensions	
Width	2.702
Height	1.962
PSet_Revit_Type_Dimension	ons 🍝
Pipe Radius	0.019
PSet_Revit_Type_Materiak	s and Finishes 🔺
Glazing Material	Metal - Chain Link
Frame Material	Metal - Aluminum
PSet_Revit_Type_Construct	tion
Function	1

Layers	<
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A-AREA-IDEN	🔳 🕈 🖆 🔔
A-CLNG-SUSP	■ ? =
A-DOOR	🗌 🕈 💼
A-FLOR-CASE	∎ • =
C A-FLOR-HRAL	∎ • ≞
A-FLOR-STRS	∎ ? = î
🗢 A-GLAZ	∎ • =°
C A-GLAZ-CWMG	∎ 🕯 🛋
C A-WALL-MBNI	∎ † ≞ `
CROSS-SECTIONS	∎ ? =
🗢 Default	📕 🕈 🛋
C E-FIXT	■ ? =
	■ ? =
C PLOTBOXES	📕 🕈 🛋 📕
C P-SANR-FIXT	■ 🕈 🛋
C SECTIONS-TERRAIN	📕 🕈 🛋
SURFACE-BOUNDARY-LINES	🗖 🕯 🗖
SURFACE-BREAK-LINES	∎ ? =
SURFACE-CONTOURLINES-MAIN	🗖 🕈 🛋
SURFACE-CONTOURLINES-SUB	🔲 🕈 🖆
SURFACE-CUTFILL-LINES	🗖 🕯 🗖
SURFACE-DESIGN-LINES	• •
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From **Building Information Model** menu it is possible to select an entity from the list and visualize all the properties.

From **Project Manager** menu it is possible to visualize all the Layers





Draw on BIM File





From **Draw** menu it is possible to select all the tools, from **Point** to **Orthophoto**, to draw directly on the File





Draw on BIM File

FILE	HOME VIE	EW DF	CAW E	DIT	SURVEY	SURFAC	ES DESI	GN 3D X-SECTION
Settings	New drawing	Point	Polyline	Line	Arc 3 points *	Circle C+R *	Polygon	Create point Working mode Point name •
D	rawing				I	nsert		





From **Draw** menu it is possible to select all the Polyline Tools to draw a **Quick Horizontal/Vertical Section**

