

# User's Manual 11.ADDONS







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#### THE NEW UPGRADED INTERFACE of SCADA Pro Ι.



## II. DETAILED DESCRIPTION OF THE NEW INTERFACE

In the new upgraded SCADA Pro, all program commands are grouped in 11 Units.

Addons         Image:	Basic	Modeling	View	Tools	Slabs	Loads	Analysis	Post-Processor	Members Design	Drawings-Detailing	Addons
Addons											
Wodeling       View       Tools       Slabs       Lads       Analysis       Post-Processor       Members Design       Drawings-Detailing       Addors         English       Parameters       Concrete       Steel       Steel       Concrete			Ade	dons							
Basic       Modeling       View       Tools       Slabs       Loads       Analysis       Post-Processor       Members Design       Drawings-Detailing       Addons         Figlish       Fig		ê 😂 🗢 🌖	i 👘 🛃 '	1 🖡 🗖	0-0.00	- 4	Ŧ				
Image: Parameters       Image: Steel Cross-Sections       Image: Print Cross-Sections       Image: Print Cross-Sections       Image: Print Cross-Sections         The 11th Unit named "ADDONS" contains five command groups:         1. Language         2. Parameters         3. Bill of Materials         4. Calculation Printout         5. View		Basic Mo	deling	View	Tools	Slabs	Loads Analy	sis Post-Process	or Members Design	Drawings-Detailing	Addons
The 11th Unit named "ADDONS" contains five command groups: 1. Language 2. Parameters 3. Bill of Materials 4. Calculation Printout 5. View	English Languag	Parameters Parameters	Concret	te Steel Bill of Ma	Steel Cross-Sectio	ons Calcu	Print Iations Printout	© Output ♥ Tree ♥ Property View Fis	MPUFIX scher		
<ol> <li>2. Parameters</li> <li>3. Bill of Materials</li> <li>4. Calculation Printout</li> <li>5. View</li> </ol>	The	11th Uni	it nam	ned "A	DDON	S" cor	ntains five	command	groups:		
<ol> <li>Farameters</li> <li>Bill of Materials</li> <li>Calculation Printout</li> <li>View</li> </ol>	1. 2	Daram	age								
4. Calculation Printout 5. View	2.	Bill of	Mate	rials							
5. View	4.	Calcul	ation	Printo	out						
	5.	View									



The new upgraded version of SCADA Pro includes five languages with the ability to switch automatically from one to another.

Select the language from the list. The interface and all the generated files produced during the project will be in the selected language (design check's files, results, printout, etc.)

The default language is the same as in Windows. The change of the language causes a momentary closure of the program, and then it opens automatically in the selected language.

You can open a project which is already created in a language to a different one. You can also start a project in one language and finish it in another.

1 The initial data change according to the selected language.



## 2. Parameters

In each new file you create, in the interface displays the General Parameters window, where you can specify since from the beginning the Materials and Regulation to use, some general details of the project and other parameters, such as time of automatic storage (Autosave).

Other Paran	notore Sr	roon	Drowing	Dien	lov	
Project	General Information	Jieen	Materia	al - Regulation	lay	
Regulation	Greek				×	
National	EAK				~	
Standard Steel	Shapes	Euro			~	
Concrete		Steel				
Foundation	C20/25 ×	Membe	rs - Elements	S275(Fe430)	$\sim$	
roundation	020/25	Steel PI	ate	S275(Fe430)	~	
Upper	C20/25 V	Bolts		48	~	
Steel		Wold		\$275/Eo/130)	~	
Main	B500C ~	Weid		5275(1 8450)		
Stirrups	B500C ~	Timber		C14	$\sim$	
Ultimate γc 1.5 γs 1.15	Serviceabili <u>t</u>	γM0 γM4 1 [	γM1 [1.: γM5 [1.:	γM2 γ1 25 1.25 γM7 1	5	
	OK	Cancel	Apply	Н	elp	
2.1	Material	– Reg	ulation	l		
2.1 Proje	• Material	- Reg	ulation	) Ma	 aterial - F	Regulat
2.1 Proje Regulation	Material	- Reg	ulation	Ma	aterial - F	Regulat

Select the **regulation** by choosing between:

Greek EC Italia SBC

Standard Steel Shapes

And then select the corresponding national norm or Eurocode annex.

Euro

General
Greek
Cyprus
Italia
Austrian
German
Polish

For the Steel, Shapes select between the European and the USA standard.

 $\sim$ 

 $\sim$ 

 $\sim$ 



For **concrete structures** select the quality of the corresponding materials. The Concrete to use in the foundation and the Upper structure and the steel of the reinforcement.

Concrete		
Foundation	C20/25	$\sim$
Upper	C20/25	$\sim$
Steel Main	S400s	~
Stirrups	S400s	$\sim$

Respectively, select the quality of Steel for the **steel structures** and of Timber for the **timber structures**.

$\boldsymbol{\epsilon}$	Steel		
	Members - Elements	S275(Fe430)	$\sim$
	Steel Plate	S275(Fe430)	$\sim$
	Bolts	4.8	$\sim$
	Weld	S275(Fe430)	$\sim$
(	Timber	C14	$\sim$

Finally, define the Safety Factors used in the corresponding verification checks:

Safety Factors	. 140		. 140	. 142
Ultimate Serviceabil	it yiviu	YIVI I		YIVI3
	1	1	1.25	1.25
γc 1.5	YM4	γM5	yM7	
γs 1.15 1	1	1	1.1	

## **2.2 Project General Information**

Other Parameters		Screen	Drawing	Display
Project Gener	al Inforr	mation	Material - R	egulation
Project Title	Two s	torey new buildir	ng in reinforced concr	ete ^
				~
Short Description				^
Short Description				
				~
Owner	Georg	ge Smith		^
				~
Project Address	Aigaid	ou Pelagous 6		^
				×
Urban Planning	Agia F	Paraskevi		~
Township - State	Athen	s - Greece		~
				~
Consultants				
	ACE			~
Responsible	ACLI	ILLLAS		
Region - Date	8/9/20	16		

Type some project data that will be included in the print out of the project.



2.3 0	ther Parar	neters	
General Parameters			×
Project General Info	rmation	Material - Re	gulation
Other Parameters	Screen	Drawing	Display
Autosave Time Interval (minutes)	10		
ОК	Cancel	<u>A</u> pply	Help

Contains the Autosave option where you can activate it and define the Time Interval in minutes.

## 2.4 Screen

Choose screen's characteristics. The background's top and bottom color, the pointer's shape and size, the osnap's step (d1 and d2 are the distances in x and z). Otherwise, select from the "Predefined" backgrounds.

General Parameters	×
Screen Drawing Display	
Background Pointer Snap (cm) Pointer Shape Size Cross ∨ 36	
Drawing Limits (cm)           From         To           X         Y         Z           -100         -100         6000         4000	
Predefined	
OK Cancel Apply Help	

Moreover, in "Drawing Limits", the "Calc" command calculates automatically the Drawing's limits according to the drawing area.





2.5 Drawing
-------------

General Parameters ×	
Screen Drawing Display	
Axes	Choose:
✓ Display X Y Z Z	<ul> <li>To display or not the global axes</li> </ul>
Grid (cm) Distances dx 100 dv 100 dz 100	<ul> <li>The color of the global axes</li> </ul>
Color	Set the grid at the main levels defined by the global
Type Solid Line V Solid Line V	axis X, Y, Z (level XY, XZ, and YZ) and some other
Mesh (cm)	grids that will help you to input the structural
Levels VY VZ VZ	elements.
Color	
Type Solid Line ♥ Solid Line ♥ Solid Line ♥	
Distances // X // Y // X // Z // Y // Z	
OK Cancel Apply Help	
To create a grid on XY level, select	and click on <i>first</i> .
In the dialog box define the limits and	the step for the parallel on X axis lines. Click
Addition and OK. Then, repeat for the addition and OK.	he vertical direction and click on we to receive the
image's grid:	
Level XY - Axes // X (cm)	
I       0.00         1       0.00         2       0.00         3       0.00         4       0.00         5       0.00         6       0.00         7       0.00         8       0.00         9       0.00         10       0.00	

#### Choose:

- To display or not the global axes
- The color of the global axes



## 2.6 Display

General Parameters
Screen Drawing Display
Model Display
Type Cylinder v Thicknes Small v 3D Display
Transparent Deformed Model
Diagrams Display
Text Size 10 Text Color
Diagrams Hatch 🗹 Diagram Color
Hatch in 50 Points Display Memo 🗸
Color Palette
Rainbow V Number 65536 V
min-max
Auto V 0 0 Number 10
OK Cancel Apply Help

On "Display" set model's display characteristic ("Type", "Thickness") and diagram's display ("Text", "Hatch").

Select also the degree of transparency as well as the color of the deformed model, the diagrams display, and the color palette.



## 3. Bill of Materials



The "Bill of Materials" command group contains the commands related to the estimation of the materials' quantities and the corresponding cost.

#### 3.1 Concrete

Select the command and in the dialog box press **Calculation**. The table includes the analytical concrete bill per level and element group as well as the total concrete bill.

CONCRETE BILL OF	MATERIALS					×
Level	BEAMS	COLUMNS	FOOTINGS	SLABS	PLATE ELEM	TOTAL
0 - 0.00 0	8.25	0.00	39.06	0.00	36.45	83.76
1 - 400.00 opo	2.52	54.23	0.00	15.99	0.00	72.75
2 - 700.00 opo	8.58	17.91	0.00	23.06	0.00	49.55
3 - 1000.00 op	8.16	17.91	0.00	23.06	0.00	49.13
4 - 1300.00 op	8.13	17.91	0.00	23.07	0.00	49.10
5 - 1600.00 op	7.31	17.30	0.00	19.25	0.00	43.85
6 - 1900.00 op	1.75	9.99	0.00	1.49	0.00	13.24
TOTAL	44.69	135.25	39.06	105.93	36.45	361.39
Results File (	Bill of Materials)		Calculation		ОК	Cancel

A Press "Results File (Bill of Materials)" to attach the Calculation Printout.

#### 3.2 Steel

It calculates the steel reinforcement quantity of a concrete structure.

Choose the level	BEAMS BEAMS COLUMNS FOOTINGS SLABS PLATE ELEMENTS, the type of steel
	,
MANTLES	
MANTLES	
THORAX ForSteel	
reinforcement ALL	and press Calculation I. Then, the steel reinforcement
quantities in Kg, per element, di	ameter, and type of steel reinforcement is displayed.
Alternatively, select Structu t	o receive directly the bill of steel for the entire building.



0 - 0.00 0	•	Structu BEA	MS M	ANTLES 💌		Calculation
Member	Longitudinal	Stirrups	Total	Mantles	thorax	ForStee
1-324	146.14684	19.58958	165.73642			
2-330	167.25079	36.24073	203.49152			
4-332	155.16281	37.22021	192.38303			
8-334	120.66742	20.56906	141.23648			
27-254	107 7653/	18 798/1	126 56374			
[]						
0	Longitudinal	Stimups	Total			
Φ20	2047.76086	0.00000	2047.76086			
Φ12	301,16241	0.00000	301,16241			
Φ8	0.00000	271,24771	271.24771			
Φ16	6.99173	0.00000	6.99173			
Φ14	2.44493	0.00000	2.44493			
m10	A 00720	0.0000	A 00700			
Category	Longitudinal	Stimuos	Total			
BEAMS	2363.16724	271,24771	2634,41504			
COLUMNS	0.00000	0.00000	0.00000			
FOOTINGS	1190.82080	0.00000	1190.82080			
SLABS	0.00000	0.00000	0.00000			
PLATE ELEME	0.00000	0.00000	0.00000			
ΤΟΤΑΙ	2552 000UV	271 24771	2026 22601			

A Press "Results File (Bill of Materials)" to attach the Calculation Printout.

## **3.3 Steel Cross Section**

It calculates the quantity of the structural steel.

"Analytical": per element and cross section concerning the length (m), weight in Kg (per m or in total); "Summary".

l of Material	s - Steel			Bill of Material	s - Steel				
Dement	Crean Solution	Lawath	Maialat (as	Element	Cross-Section	Length	Weight/m	Weight (Kg)	
Element	Cross-Section	Length	weight/m	-	IPE 450	18.00	77.60	1396.80	
K1 / 1	IPE 450	0.34	//.60	-	IPE 330	36.97	49.10	1815.41	
K3/3	IPE 450	0.34	77.60	_	IPE 100	288.00	8.10	2332.80	
K4 / 4	IPE 450	0.34	77.60	_					
K5/5	IPE 450	0.34	77.60						
K6 / 6	IPE 450	0.34	77.60						
K7/7	IPE 450	0.34	77.60						
K8/8	IPE 450	0.34	77.60						
K9/9	IPE 450	0.34	77.60						
K10 / 10	IPE 450	0.30	77.60						
K11 / 11	IPE 450	0.34	77.60						
K13 / 13	IPE 450	0.34	77.60						
K14 / 14	IPE 450	0.34	77.60						
K15 / 15	IPE 450	0.34	77.60						
K16 / 16	IPE 450	0.34	77.60		(	· · · ·			
K17 / 17	IPE 450	0.34	77.60	ОК	Ana	lytical	TOTAL W	EIGHT OF	5545.01
K18 / 18	IPE 450	0.34	77.60	Cancel	Sum	Imary			
1/10 / 10	IDE 460	0.04	77.00	00.00					
ОК	Analyti	cal	TOTAL WE	IGHT OF	5545.01				
Cancel	Summa	ary							



PRINT							
Print							
alculations Pri	ntout						
OMUNE DI	000000000000000000000000000000000000000	200000000					
ROVINCIA DI	000000000000000000000000000000000000000	200000000					
			BREVE DESCRI	IZIONE DELL'OPERA	Pagina : t		
RE	RELAZIONE TECN						
		EDIFICIO IN CEMENTO ARVI	A70				
						Pagina 2	
			Test	NORMATEV	A DE REFEREMENTO		
	1	Dimension in plans Numero Res Artesse Auoriteme	1041 3 4 5% 6n 55%	NORMATIV Platental I debite determine 21 performer autoritation and 22 performer autoritation and	IS. OSCHEARAZSONE DE CUE	Fages	7
	1	Dimension in pane Vumero Ran Atess fuoriteme Effecte compressive	30#3 3 6m batter 6m canto	NORMATTY Plant of the second	AN DE REFEREMENTO 38. DECHEMAZIONE DE CUE MALE E décidide 2007	E. PUNTO 16,2 DH. 14,01(2008	2
		Dimension in pane Numero Ran Antesse Kont Bante Antesse compressive	1043 3 4 5% 6m 445% 6m 6 1045% 1000 1000 1000 1000 1000 1000 1000 10	NORMATIV Statutes and service of the service and service of the service of the service of the service of the service of the service and the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the serv	AN DE REFERENTENTE 38. DECHEMARZEONE DE CUE ANAGE E HOFFICH FOUTE 1 WENTER 70	R. PUNTO 10.2 DH, SL/SL/2008 Dr.J.C.BLO DI (DIIS) DI GUDUD PUDTO DI STORE DI GUDUD PUDTO DI STORE DI GUDU	
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XGGETTO		Entergoningung Characters Charact	20#3 3 d proj de de data 5 d c data 5 d c data 1 dat 1 dat 1 dat 1 dat 1 dat 1 dat 1 dat 1 dat 1 dat 1 dat	новности нателя и вода отказато на нателя и вода на работа на работа нателя на работа на работа нателя на работа на работа нателя на работа на работа на работа работа		E-Parties     E-Parties	Total and the second
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OGGETTO COMMITTENTE	200000000000000000000000000000000000000		10-43 3 6-1 6-1 6-1 20-1 - 20 20-	новности нали и представите на представите на нали и представите на представите на на предст	AL DE REFERENCESION BALENCESSO	Experiment     E	To back light in the light of t
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		10-413 3 4 m meno 6 m l 6 m l 6 m l 10 m m 10 m l 10 m			Language	
DGGETTO COMMITTENTE		Energie repairs Versitätä	10/43 3 4 proj 4 pr	нолного статите и статите с состатите на состатите статите на состатите с состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состатите на состат			
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DGGETTO COMMITTENTE L PROGETTISTA L DIRETTORE		Drawpon ngana Vanar Van Anato Kari Ivra Vanar Van Vanar Van Vanar Van Vanar Van Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vanar Vana	15643 1 1 1 1 1 1 1 1 1 1 1 1 1	НОЛИЦИИ самотели (1 или) (1 или) (1 или) (1 или) самотели (1 или) (1 или) (1 или) самотели (1 или) (1 или) (1 или) самотели (1 или) (1 или) (1 или) или) (1 или) (1 или) (1 или) (1 или) (1 или) или) (1 или) (1 или) (1 или) (1 или) (1 или) (1 или) или) (1 или)		Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page        Page         Page         Page         Page         Page         Page         Page         Page          Page           Page           Page                  Page	
DGGETTO COMMITTENTE IL PROGETTISTA IL DIRETTORE DEI LAVORI			2023 6	нолности статитет и али статитет и служитет и полности и для и статитет и полности и для и статитет и полности и для и статитет и полности и статитет и полности и полн		Approx     Approx	
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**Print** and in the dialog box "Calculation Printout", on the left, the list with the Available Chapters is displayed. Double click on the selected chapter to show it on the right list. Fill in the Printout list by clicking two times on the available chapters and then press "Project Report".



Availiable Chapters		Printout Number of Pages :	
	^	Cover	Building Data
···· Program Assumptions		Short Description	Mayalla
		Regulations	Move up
EC		Solemn Declaration	Move Down
Seismic Analysis Parameters		Program Assumptions	
···· Material Descriptions		Seismic Analysis Parameters (EC)	Delete
Combinations			Delete All
Table of Contents			
Analysis			Insert File
Sci EAK Static			
SC2 EC8-Greek Pushover			Error Correction
Checks			
Decian			5
			Format Page
Nodes Capacity Design			Paging 0
- Footing Design			
E. Columns			
···· Level 0			Export Printout
Level 1			
···· Level 2			Print
Level 3			Project Report
Level 4			riojecticport
Level 5			Save

Press "Project Report" to open the preview.

2 Preview			
Print 🔄 🕂 Save 💌 👬 🔟 🖉 🧉 🖉 🖣 1 of 2 🕨 🕅 Clos	e		_
Prepared report			
Adobe Acrobat			
W Rich Text he			
HTML file	<b>URBAN &amp; RURAL</b>		
MHT file (web-archive)	PLANNING		
36 XML (Excel) table	OFFICE		
Excel 2007 fie	OFFICE		
W Microsoft Word 2007 file			
PowerPoint 2007 fie	MUNICIPALITY		
OpenOffice Calc			
OpenOffice Writer			
Microsoft XPS file			
CSV file			
DBF table			
Text Fle Matrix Printer			
Image fie			
		TECHNICAL DEDODT	
	PROJECT TITLE		
	1		
	1		
	OWNER		
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P 1 - ( 2	1		1







	Project Data	* ^
	Ση - 🥐	
Γ		
	G Arcs	
	G Circles	
	+ Beams	
	Columns	
	🗄 🔬 Nodes	
	Hathbean	ns
	MathColu	mns
	A Surf 2D	-
	Sull 2D	
	Suff 3D	
	🗄 🦇 Slabs	
Pri	operties	å ×
•	i ≙↓ 🔟 🗲	
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La	yer	Δοκοί Σκυροδέματος
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Bit	Nodes First Node Final Node	16 13
Bit	Nodes First Node Final Node *Cross Section* Material	16 13 Concrete
Bit	map First Node Final Node *Cross Section* Material Quality	16 13 Concrete B225
Bit	Nodes First Node Final Node "Cross Section" Material Quality Rigid Offsets (cm)	16 13 Concrete B225
Bit	Nodes First Node Final Node "Cross Section" Material Quality Right Offsets (cm) dx (Start)	16 13 Concrete B225 7.50
Bit	Nodes First Node Final Node *Cross Section* Material Quality Rigid Offsets (cm) dx (Start) dx (End)	16 13 Concrete 8225 7.50 7.50
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TREE. An "Interactive" list that contains all project's elements and gives the ability to search and locate them.

PROPERTIES. "Properties" list displays on the right and gives information about the characteristics of an element. Through this list, the user can make changes as appropriate.

## 6. Fischer



SCADA Pro integrates calculations programs for anchors and other anchor materials of the famous company Fischer, to serve the user's needs and offer ready solutions. Relevant instructions can be found under "Techniques Handbook".