# **COURSE UNIT 5**



**Work Drawings** 

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# INTRODUCTION

## How to use this course unit

This course unit is not a manual but a combination of theory and workshops with which to learn the programme on a 1-to-1 basis. Every mouse-click and every entry is described in detail, providing you with a teaching resource that lets you learn the basics of the programme by yourself. Each chapter provides explanations, information, and a workshop to practise the functions. To enable the workshops to be completed smoothly, the explanations should be read through very carefully. The order of chapters should not be changed because each workshop builds on the previous one. The programme DVD contains examples stored as an ELITECAD file, enabling problematic places to be reviewed.

## **Conventions used in this course unit**

The start and end of a workshop are marked as follows:

**V V V WORKSHOP** \_

**WORKSHOP END** 

Functions are written in block capitals. The corresponding icon also appears for new functions.

FUNCTIONS (BLOCK CAPITALS)

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Functions can be accessed directly using icons (buttons). The functions are grouped together in toolbars or in the large tool management.



## [Enter]

Function keys on the keyboard appear within square brackets.

### Input values (bold)

Input values must be entered using the keyboard. When the text is entered in the input line, it must be confirmed with the [Enter] key.

# PREPARATION

## **V V V WORKSHOP**

In this course unit we start with the project status that you created in course unit 4 or you use our example supplied (CAD\_Object4). First, load the project.

1. Open the project settings.

St	orey	/			
Ø	P.		* (	É:	⊳ ⊨ ₽
	f	]			

Existing model from course unit 4

A Project		×
Window	Record Help	
Project: Standard:	test course	
Standard.	English	~

Without model from course unit 4

A Project		×
Window F	Record Help	
Project: Standard:	CAD_Object4 English	

Select the relevant project and confirm with OK.

2. Load the corresponding model file with the menu FILE > OPEN.



Select the model and open it.

Open

The opened model should have this status.





------ EXPLANATION

The changeover to the representation mode "work drawing" also changes the scale of the model and of the views. As a result, the plot compilations can no longer be used.

Make sure that you save the "input model" with its views and plots as an independent file. Use the SAVE AS function in the FILE menu to save a model and all its plans under a new name. A back-up copy of the entire file can also be created in the same way.

3. In views management delete all plots and views. Select the views and delete them using the context menu.

[Ctrl] key = multiple selection; [Shift] key = "from-to" selection



4. From the FILE menu select SAVE AS and save the file under the new name **Working-drawing-course 5.d**.

A Save drawing			×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\ll$ en_uk $\Rightarrow$ CAD_	Object4 > V	ی بر Search C	CAD_Object4
Organise 👻 New folder			::: - ?
Name	Date modified	Туре	Size
<u>conf</u>	05/10/2020 11:29	File folder	
~\$Model.d	09/11/2020 14:38	Elite Document	<u>1 KB</u>
E Model.d	27/09/2013 11:53	Elite Document	<u>3,074 KB</u>
File name: working drawing c	ourse 5		~
Save as type: ELITECAD files (*.d)			~
∧ Hide Folders		Save	Cancel

## **WORKSHOP END**



## **SWITCH REPRESENTATION LEVEL**

To be able to plan efficiently, the modifiability of the representation level is decisive. The construction objects are drawn once and can be displayed in different ways. The representation level does not depend on the scale of the drawing.



## **V V V WORKSHOP**

1. Switch the representation level from construction project to work drawings. Ensure that you are in the model.

	Construction project	Ŧ
4 4 9 9	no phase	
1:100	Working drawing	
	Construction project	

2. The model and the MST must be updated.

A Refresh representation level	×
Refresh what?	
☑ Design model - AR-Objects	
☑ Scale	
✓ Views	
Freeze active views Release frozen views	_
OK Cancel	

ELITECAD

3. In views management, switch to the GF.



4. The walls have changed the hatches; the windows, doors and room labels have adjusted the level of detail.



**WORKSHOP END** 

# **PARAMETER REPRESENTATION LEVEL**

The way in which the AR objects are displayed in the different representation levels can be set in the parameter mask.

	🔼 Represe	ntation levels - settings	×
	Name:	Working drawing	
	Code:	EN050	
	1:?	1:50	
	Actions		
Working drawing	Parame	eters New	Import
1:50 v cm v A3 v	Сор	y Delete	Export
Parameters			

### Materials

A Representation	level paramete	rs	×
	Materials pa	arameters	
Material	Material:	Brick ~	
Door	2	Brick	
Rooms	5		
3D-Objects		Save modifications	
	ОК	Cancel	

In materials management, the line width and hatch parameters are defined which are used to display the materials of components in the floor plan view and/or section view.

A Representation	level parameters			×
	Door parameters /	/ Depiction		
Material Window Door Rooms Dimensions 3D-Objects	Depiction Label Fire proofing Centre line Lintel lines Slab elevation	Door leaf asymmetrica Door jamb	Opening symbol ✓ 2D ✓ 3D Ø I leaf Ø ✓ 2D ✓ 3D Ø	<ul> <li>4</li> <li>4</li> <li>4</li> <li>4</li> <li>4</li> </ul>
	ОК	Ca	ncel	

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In the window parameters, the display of windows in 2D and 3D can be defined. In addition, you can modify the type of label and the text parameters to be used, the settings of the height markers, the length and the pen for the centre line and the line types for the lintel lines.



Representation	level parameters			×
	Door parameters	/ Depiction		
Material Window Door Rooms Dimensions 3D-Objects	Depiction Label Fire proofing Centre line Lintel lines Slab elevation	Door leaf asymmetrica Door jamb	Opening symbol ✓ 2D ✓ 3D 🖋 I leaf 🖋	<ul> <li>4</li> <li>4</li> <li>4</li> <li>4</li> </ul>
	ОК	Ca	ancel	

In the door parameters, you can define the display of doors in 2D and 3D. In addition, you can modify the type of label and the text parameters to be used, the length and the pen for the centre line and the pens and line types for the lintel lines.

#### Rooms

A Representation	level parameters		×
	Room parameters		
Material			
Window	Parameter name:	Working drawing List	
Door	Room group:	List	
Rooms			
Dimensions			
3D-Objects			
	]		
	ОК	Cancel	

In the room parameters you can select the data record for the room label and room group used.

The construction parts are adjusted when the representation level is changed or when the settings for this representation level are updated, even when different settings were applied on the parameter screens of the relevant construction parts. To prevent this with individual construction parts, each construction part has the option to be frozen when edited. If this option is set, this construction part is ignored when the representation level is updated.

鑗



#### Dimensions

Representation level parameters						
	Dimension paramete	rs				
Material						
Window						
Door	Parametergroup 1	Arial 3.5 L30	List			
Rooms	Parametergroup 2	Arial 2.5 L20	List			
Dimensions	Parametergroup 3	Arial 2.5 L04	List			
3D-Objects						
	ОК	Cancel				

On this screen you specify the dimension parameters for the "parameter groups 1-3" to be used during architectural dimensioning.

r∤ ©3_	Arial 3.5 L30	•	A I 3.5	* *	1॒॔30	•
'⊬≀ ©?						
/⊀ ©1						
/~/ @2						
/~∤ @3						

The dimension parameter must be selected from "List...", i.e. from a list of all of the settings created under the function "Dimension parameters". The selection of an representation level automatically converts the current dimension parameter.

## **3D** objects

A Representation	level parameters		×
	3D Parameters		
Material			
Window			
Door	Parameter name:	Standard 🗸	
Rooms			
Dimensions			
3D-Objects			
	ОК	Cancel	

In the 3D parameters, the data record can be selected which is to be used as a standard for 3D objects (plane, box, rotation bodies, free forms, etc.).

# **CHANGE REPRESENTATION LEVEL**

After the representation level has been changed, all objects are updated (with the exception of objects on locked layers). Everything must be set up before the imaging depth is changed.

**V V V V WORKSHOP** 

1. Switch to the model and set everything up.

2. Open the representation level settings and switch to the window parameters.

Parameters

3. Switch to label. Activate the inner label and change the type to "R PAR+LF LI fr TFS" (raw parapet and lower face Lintel from top face slab). Complete the formatting text and confirm with OK.

Representation	level parameters	;	×
	Window parameters / La	bel	
Material Window Door Rooms Dimensions 3D-Objects	Depiction Label Outer height marke Fire proofing Centre line Lintel lines	A       Arial 2.0 justify       List         Type       Rough clearance          A       Arial 2.0 justify       List         Type       RPH + LH from TFS          RPH <>;LFLI<>       RPH <>;LFLI<>	
	ОК	Cancel	

## 4. Update the model.

Message	×				
Refresh design model + views					
ОК	Cancel				

5. The windows now have a label.



# **MODIFY EXTERNAL WALL**

The walls from the building permit are single-layered and must be adjusted in accordance with the construction.

**V V V WORKSHOP** 

1. Switch the "GF" floor to visible *alone* on the screen.



## 2. Select the outer wall and switch to the parameter screen.

$\Box_{\widehat{e}}$	Outer wall	-	١Ċ,	<u>∞</u> ‡ 30	- <b>2</b> 70	-20	) 🏂 🖣	Brick	-	
----------------------	------------	---	-----	---------------	---------------	-----	-------	-------	---	--

3. Select *Exterior insulation* as type and change the thickness of the brick to 17.5.

A WALL			
Window Record Help			
	Туре: 🎽	Exterior insulation ~	
*	Layer:	Wall	
Dimensions		Parameters Preview	
Ŧ	33.5	≝⊾ 2 ✓ 幸 17.5 ∞∞ ✓ 🗰 +₩ 🜌 ∰	
	F	Brick V	
270		1	
	-20	Tiled stone105	
±	<b>—</b>	2222 Brick 2 -17.8000	
I Paranet wall		The second secon	
System-built wall		Layer group top     V	
Input		Layer group top V	
		Structural construction 🗸 🔒	
ОК		Cancel	



4. The room labels may need to be updated. From the menu select LAY-OUT > REFRESH ROOMS and confirm with OK.

## WORKSHOP END

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## EXPLANATION

If the wall thickness is changed, the wall connections adjust themselves automatically. Library parts, stairs, own 2D elements, etc. must be adjusted manually to the new ratios.

# **MODIFY WINDOW STOP**

The window stops must be adjusted to the new wall construction.

```
V V V WORKSHOP
```

1. Edit the window in the *Living* room at the top left.



2. In the properties bar switch to the large parameter screen.



3. Give the window a stop, set the width to **4** and the depth to **16** and change the "Enter size" to finished clearance, then switch to the "Stop detail editor" and activate all stops. Close the "Stop detail editor" with *Apply*.





4. Open the frame parameters and change the frame strength at the side and top to 6 cm. Confirm with OK.



The floor plan and geometry lines are shown in the model. The cleared display of the floor plan can be checked in the plan view in print mode.

Model

Floor plan



# **MODIFY DOOR STOP**

## **VVVVWORKSHOP**.

1. Select the kitchen doors.

		80 -	200	- <mark>[]</mark> 0	⊠,A IE-
--	--	------	-----	---------------------	---------

2. Check whether the "fixed point" is in the correct place.

Following selection, the "fixed point" is indicated by a handle and can if necessary be dragged to the correct position.



3. Change the door jamb type to "Embracing jamb" and then open the "Door jamb parameters".



DOOR			×
Window Record Help			
	Туре: 🎽	Standard ~	
r 🕸	Material:	Wood ~	
	Layer:	Door ~	
Dimensions		Selection	
200 Fire proofing H	LE 0	Shape     Door jamb     Stop       Image: Symbol     Image: Symbol     Image: Symbol     Image: Symbol       Symbol     Elevation     Image: Symbol       Image: Symbol     Image: Symbol     Image: Symbol       Image: Symbol	
✓ room dividing			
Input		Detail parameter	
	Door ~	<b>R # 3 5 5 16 1</b> 0	
ОК		Cancel	

•. Change the settings for the "	Embracing jamb" as shown and cl
A Detail-Parameters (Mind the rep. level )	parameters) ×
Door jamb parameters	Embracing jamb 3 4 0 4 0 4 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0
	312
OK	Cancel

4. Change the settings for the "Embracing jamb" as shown and close both door masks.

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For display of doors, the same applies as for windows. The display in the model is not purged.

### Model

Floor plan



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Kr	5		UF	

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# **SET DOORS WITH STOP**

Since, in the work drawing, the outside doors also have a stop, they are best reinserted again.

**V V V WORKSHOP** 

1. The outside door must first be deleted.

Select the door, which is most easily done by selecting the door leaf, and delete it by using the function DELETE or by pressing the **[Delete]** key.



2. Start the function CREATE DOORS and open the parameter mask from the properties bar.



3. Select the type *Entry door* and change the rest of the values. Switch to the stop editor of the doors.



4. Set the stop to one side and above at **10** cm. No preview will be displayed because the wall function is not yet known.

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A Stop detail editor	- 🗆 ×
	Pull layer into reveal (main wall)          1       IT.5       Brick         2       16       Insulation-exterior         3       Insulation-exterior       Insulation-exterior         4       Insulation       Insulation         5       Insulation       Insulation
	Pull layer into reveal (secondary wall)          1
Display Left stop side  Managing stops (main wall)	Managing stops (secondary wall)
$\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Lengthen free stops at secondary wall
ОК Ар	ply Cancel

5. Set the doors into the middle of the exterior wall. Click again to determine whether the door opens inwards or outwards.



# TRANSFER THE PARAMETERS OF THE DOORS

The parameter settings of the modified components can now be transferred globally to all others.

**\* \* \* \* WORKSHOP** 

1. Select the function TRANSFER PARAMETERS.



2. Click on the kitchen door you created earlier and from which the parameters are to be transferred. The parameters cannot be transferred to all doors (outside door, garage door, sliding door) meaning that you have to make a selection. The parameters may only be transferred to doors that are 80 cm wide and 200 cm high.

$\times$		Selec	tion		×
^			Parameter	Value	^
		4	General		
			Door shape	Rectangle	
			Reference point	1	
	2		Width	80	
			Height	200	
			Lower edge	0	
			Depth	0	
			Layer	Door	
			Material	Wood	
			Lintel	without	
			Fire proofing class (Each character f.		
			Enter dimensions	Finished clearance	
			Enter the start height	Finished clearance	
			Quantities	Door	
			Openings in 3D		
1_×			2D only in active storey	4	~
on all		V		Select Cancel	

3. Thanks to the selection the parameters can now be transferred *to all*. Compared to *on image* this also includes the doors of the basement and of the top floor not displayed.

V	Quantities		- ° = -	Doo	r		
	Openings in 3D		$\mathbb{P}^{n} = 0$				
₽	2D only in active storey		•° = .				~
		Apply:	single		on image	on all	>>

**WORKSHOP END** 

# TRANSFERRING THE PARAMETERS OF THE WINDOWS

## V V V V WORKSHOP

1. Make the top floor visible as well.

2. Select the function TRANSFER PARAMETERS.

<u></u>

3. Click on the window in the living area modified previously. Not all values may be transferred because the windows differ in size or are divided in different ways. Activate the window depth, input of sizes, the values of the frame (except frame width below) and the stop parameter. Transfer the values *to the image* (to all visible objects) > the basement windows must not be affected.

Window parameters copy X				Window parameters copy				
	Parameter		Value		Parameter		Value	^
	General		value		Frame width un		6	
	Window shape	-C =	Rectangle		Frame width below		12	
	Reference point		3		Frame width left	e =	6	
	Width		120		Frame width right	- -	2	
	Height		210		Top joint width	-	0	
	Parapet height	- -	0		Joint width below	- C =	0	
	Depth		16		Top joint in 3D	- -	<u>-</u>	
	Recess for radiator	- -	6		Bottom joint in 3D			
	Outside recess	- C =			Left joint in 3D	<i>e</i> = 1		
	Laver		Window		Right joint in 3D	- -		
	Material		Wood		Frame contour		*	
	Casement/Muntins layout		*		Bottom frame side		*	
	Handles		*		Pen		4	
	Glass composition		*		Line type	- C =	1	
	Lintel	-C =	contiguous		3D frame depiction	- -	320	
	Enter dimensions	- -	Einished clearance		Frame 3D hatching	-		
	Enter the start height		from rough floor level		Individual frame outer side depiction	- -		
	Rough/finished lintel		0		Frame outside 3D-depiction	- -	320	
	Side plaster thickness		0		Frame outside 3D-hatch	-		
	Ouantities	- -	Window		Casement contour		*	
	Fire proofing class (Fach character following)				3D casement depiction	2.0	320	
	Frame				Leaf 3D hatching	-		
	Floor plan depiction	- <b>C</b> =	Frame and casement separated		Individual wing outside depiction	- -		
	Normal frame/ Block frame	- C =	Normal frame		Wing outside 3D depiction	e =	320	
	Inward/Outward	<i>•</i> ? = 1	open inward		Wing outside 3D hatch	<i>•</i> =		
	Casement thickness	-e = 1	7.5	⊳	Label			
	Casement offset	<i>•</i> • = 1	1.5	Þ	Muntins and pane			
	Projection side	- C = 1	0	Þ	Walling			
	Window frame thickness	- C = 1	6	Þ	Exterior sill			
	Casement	<i>•</i> ? = 1		Þ	Interior sill			
	Casement frame width	-C = 1	4	Þ	Roll blind			
	Frame	<i>•</i> ° = 1		Þ	Venetian blind			
	Side joint	-e = 1		⊳	Symbols			
	side joint width	- e = 1	0	Þ	Assembly frame / Padding			
	W.frame in 3D	-e = 1		4	Stop			
	Wing in 3D	-e = -			Stop parameters		*	
	Frame width up	-e = 1	6	Þ	Recess for radiator			
	Frame width below	-e = 1	12	Þ	Opening			
	Frame width left	<i>•••=</i>	6	Þ	Lintel			~
	Apply:	single	on image on all >>		Apply:	single	on image on all	>>

4. The recess depth of the window doors no longer matches the new wall construction. Change the recess depth to 11.5 cm, the lintel depiction to without, and transfer these values to all window doors.



You can select the window doors according to their height and width.

Window parameters copy X						Selection				
_				_	_					
	Parameter		Value	^		Parameter	Value			
4	General				4	General				
	Window shape	$\mathbb{P}^{n} = 0$	Rectangle			Window shape	Rectangle			
	Reference point	•° = 1	3			Reference point	3			
	Width	$\mathbb{P}^{n} = \mathbb{P}$	120			Width	120			
	Height	-e = 1	210			Height	210			
	Parapet height	•° = 1	0			Parapet height	0			
	Depth	$\mathcal{L} = 0$	16			Depth	16			
Ø	Recess for radiator	•° = 1	11.5			Recess for radiator	6			
	Outside recess	-e =				Outside recess				
	Layer	- ° = 1	Window			Layer	Window			
	Material	•° = -	Wood			Material	Wood			
	Casement/Muntins layout	e =	*			Lintel	contiguous			
	Handles	e =	*			Enter dimensions	Finished clearance			
	Glass composition	9 =	*			Enter the start height	from rough floor level			
	Lintel	- c = 0	contiguous			Rough/finished lintel	0			
	Enter dimensions	•° = 1	Finished clearance			Side plaster thickness	0			
Len			· · · · · ·	¥				~		
	Apply:	single	on image on all >>				Select Cancel			

## **WORKSHOP END**

## **Move windows**

The addition of the stop for the windows causes the position of the windows to be changed. To move an object you can use either the manipulation function MOVE SELECTION or the handles. View the advantages and disadvantages in the workshop.

**V V V V WORKSHOP** 

1. Switch to the plan view GF.

Plan views
🕞 🖻 BA
🕞 🛃 GF
CP 🖻 TF

2. The two windows in the rooms *Bathroom* and *Cupboard* must be corrected. Select the window in the *Cupboard* with mouse **P1** and start the function MOVE SELECTION.

<u>[</u>]

3. The function allows you to use a freely selectable reference point. Click on the point **P2** and drop the window at point **P3**. End the function.



4. Also move the window in the room *Bathroom* so that the window reveal is flush with the interior wall.

- 1. Select window
- 2. Function MOVE SELECTION
- 3. Reference point
- 4. New position
- 5. Cancel function



5. The function (Re)Draw walls recalculates all wall connections and removes superfluous lines. If 2 walls with the same material meet each other, the dividing line is removed.

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**WORKSHOP END** 

# **CORRECT STAIR**

The stair landing must be adjusted to the new wall construction.

## **V V V V WORKSHOP**

1. The staircase protrudes into the wall. Measure the value. To do so, open the measurement functions (context menu "Measure") and use the MEASURE VERTICAL function to measure the distance between the landing and the wall corner.



2. The last step must be shortened by **3.5** cm. Select the stair and open the parameter mask of the staircase. Shorten the length of the flight of stairs and the length of the landing by **3.5** cm, change the rise width to **29** cm and assign the values.



3. Select the stairs and move them with the handle to the corner of the wall.



# **EXTERNAL DIMENSIONS**

The floor plan can now be measured using the different options for architectural measurement. It does not matter whether you measure in the model or in the plan view. The correct floor must be active in the model. Like construction parts, measurements can be copied to the current floor.

**V V V V WORKSHOP** 

1. Prepare the position of the external dimensioning using help lines.

n

Create help lines with a distance of **300** cm to the walls.

2. Click on the function CHAIN DIMENSION.

\*\*\*\*

Switch to the parameter 1.



3. Create the vertical main dimension. Set the two dimension points **P1** and **P2**, set the position of the dimension chain **P3**.

4. To start a new dimension chain you either need to restart the function CHAIN DIMENSION or you select the function AUTOMATIC on the properties bar.

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5. Create the horizontal main dimension. Set the two dimension points **P4** and **P5**, set the position of the dimension chain **P6**.



6. Start a new dimension chain.



7. Switch to the PARAMETER GROUP **2**. In the additional functions open the PARAMETER FOR OPENING DIMENSIONING. In the settings you can determine the desired options for the points to be measured.

```
♥ ♥ Arial 2.5 L20 • AI 2.5 ÷ 社 ▼ 20 ▼ | � | ♥ | ↓ | # 篇▼ # 翻 147 |
```

Parameter for opening dimensioning	×
<ul> <li>Height text at window</li> <li>Top</li> <li>LF lintel</li> <li>LF blind / finished lintel</li> <li>LF blind + height</li> <li>Bottom</li> <li>TF Exterior sill</li> <li>TF Interior sill</li> <li>TF Exterior rough parapet</li> <li>TF Interior rough parapet</li> </ul>	<ul> <li>✓ Height text at door</li> <li>Top</li> <li>✓ LF lintel</li> <li>✓ LF frame</li> <li>Bottom</li> <li>✓ TF Floor</li> <li>✓ TF rough slab</li> </ul>
ОК	C With stop Cancel



8. Under additional functions, select the OPENING DIMENSION.



Specify the points **P11** and **P12** for the reference line and click for the position on the text of the primary dimension **P13**.

In the input line specify the distance to the primary dimension. Downwards and upwards the gap is negative.



10. Start a new dimension chain and select the opening dimension again. The additional functions must be reselected for every dimension chain.

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11. Specify the points **P10** and **P11** for the reference line. For the position, click on the text of the primary dimension **P12** and enter the distance **10**.



12. Generate the secondary dimension for the two vertical primary dimensions.





13. Add the dimension points for the brick wall. Edit the dimension P19.



14. Select the function "Define measuring point". Add the dimension point P20.





16. Complete the dimensioning with a single dimension for the window's stop. Start a new dimension line.

\*\*\*\*

17. Change the length of the help line to **10**. Define the two dimension points **P1** for the rough reveal **P2** for the finished reveal. Set the position of the dimension line **P3**, to distance **-10**.



18. Start a new dimension chain. Indicate the two points to be measured, **P4** and **P5**. It is not necessary to set a distance for the position, just click on the snap point of the previously created dimension, **P6**.



9.00



**WORKSHOP END** 

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# **INTERNAL DIMENSIONS**

**V V V WORKSHOP** 

1. Prepare the positions of the internal dimensions with help lines.

**n** //

Create help lines with a distance of **60 cm** to the outer wall.



2. Start the function CHAIN DIMENSION.

3. Switch to the PARAMETER GROUP **3**. In the additional functions open the PARAMETER FOR OPENING DIMENSIONING. Change the options as shown below and confirm with OK.

H H? ▼ B3 Arial 2.5 L04 ▼		147   ヘ 🍤   🗰 🚔 🗰
A Parameter for opening dimensioning		×
Height text at window	✓ Height text at door Top	
C LF lintel	<ul> <li>LF lintel</li> </ul>	
<ul> <li>C LF blind / finished lintel</li> <li>C LF blind + height</li> </ul>	C LF frame Bottom	
Bottom	TF Floor	
TF Exterior sill     TF Interior sill	C TF rough slab	
<ul> <li>C TF Exterior rough parapet</li> <li>C TF Interior rough parapet</li> </ul>	Full heat insulation Without stop With stop	
ОК	Cancel	

## - EXPLANATION

In the "Parameters for Opening Dimension" different options can be selected as to which heights need to be measured for the opening dimension for the window and door opening. If changes were made in this mask, the dimension and the additional function must be accessed again.



4. Under additional functions, select the OPENING DIMENSION.

'à ∖fr às Arial 2.5 L06 - A1 2.5 1 11 × 6 - 1 °₽, × 147° / 3 °2 i		- AI 2.5	<u>↑</u> 1 <u>1</u> - 6	- <sup>0</sup>	1475	╮┣┛│ [##1] [##2] [#?] [#?] [#?] [#?] [#?] [#?] [#?] [#?
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Specify the points **P1** and **P2** for the reference line and specify the position of the chain dimension **P3**.



5. Start a new dimension chain and select the OPENING DIMENSION in the additional functions.

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Specify the points **P4** and **P5** for the reference line and specify the position of the chain dimension **P6**.



Room labels can simply be moved. Select the room label and move it to the new position.

r TIP

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- TIP

Dimension texts can be moved. If the dimension text is selected, the dimension texts can be moved by their handles.



1



6. Now add the remaining dimensions.

7. The opening dimension can also be combined with the normal point entry. Start a new dimension chain and select the OPENING DIMENSION.

₩ ®	<b>□!</b>	P3 Arial 2.5 L06	<ul> <li>▲ I 2.5</li> </ul>	*	<b>1</b> ∎   <del>-</del> 6	- <sup>0</sup> -	1.47	~ ♥   <sup>†</sup> r	Ħ∦∰ ₩	
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8. Specify the points P1 and P2 for the reference line of the opening dimension and locate the dimension chain P3.



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9. In the properties bar now switch to the point entry and specify the other points.

ELITECAD

#### 10. Now try to continue to add to the floor plan with the dimension options.



— TIP

If an incorrect dimension point was selected, you can simply click in the properties bar on DELETE DIMENSIONING POINT and the point can be deleted again by left-clicking on it.

To continue with dimensioning, select the function DEFINE DIMENSIONING POINT and continue dimensioning.

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----- TIP

A room label can be moved outside the room using its handles. The calculation point (blue cross) must always remain in the room.



# SAVE

**V V V V WORKSHOP** 

1. Switch to the model and set up all data.



2. Save the file using the SAVE function from the FILE menu.

**WORKSHOP END**