

REBARCAD INDIA CONFIGURATION GUIDE





Microsoft Partner



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1 Introduction

This guide gives a brief overview on how **RebarCAD** can be configured to suit different code of practises or project requirements such as **Bar Shape**, **Bar Grade**, **Drawing Annotations**, **Bar Schedule**, **Reports** etc. A summary of important configuration settings is provided along with tips on best practises to help customise **RebarCAD**.





2 Configuring RebarCAD

This chapter describes how to customise **RebarCAD** to work according to your work settings, which might include standard codes of practice for reinforcement detailing and scheduling, bars and ranges representation, annotations, schedule settings etc,.

This chapter also describes where **RebarCAD** saves the configuration settings.

2.1 Creating Configuration Settings

The configuration settings are saved in a physical file. These files are called **DEF** files and are saved with *.DEF extension. **RebarCAD** places them in the following path in your local system by default.

C:\Program Files\CADS\AutoCAD 20xx\CADS RC India 9.01\CADS-RC\params

The first part of the file location, i.e. C:\Program Files\CADS\AutoCAD 20xx depends on the installation location you have chosen while installing RebarCAD and the AutoCAD version on which RebarCAD is installed.

Organize 🔻 🧻 Open New folder 🔠 🐨 🗍 🔞								
Favorites	Name	Date modified	Туре	Size				
Nesktop	Config.cfg	4/16/2012 11:28 AM	CFG File	3 KB				
Downloads	Default.cfg	4/16/2012 11:29 AM	CFG File	1 KB				
📃 Recent Places	Detailer.cfg	4/16/2012 11:28 AM	CFG File	2 KB				
_	DrawingSheet.cfg	4/16/2012 11:28 AM	CFG File	32 KB				
🗃 Libraries	SupportFiles.cfg	4/16/2012 11:29 AM	CFG File	3 KB				
Documents	CADS-RC.DEF	4/16/2012 11:29 AM	DEF File	16 KB				
🌙 Music	[] IS2502.def	4/16/2012 11:29 AM	DEF File	16 KB				
E Pictures	[] IS13920.def	4/16/2012 11:29 AM	DEF File	16 KB				
🛃 Videos	My_Def_File.def	4/16/2012 11:29 AM	DEF File	16 KB				
	RC_LAB.DEF	4/16/2012 11:29 AM	DEF File	1 KB				
Computer	RC_SECTD.DEF	4/16/2012 11:28 AM	DEF File	21 KB				
🏭 OS (C:)	rc_sectw.def	4/16/2012 11:28 AM	DEF File	23 KB				
👝 Datas (D:)	cads-rc.dfr	4/16/2012 11:29 AM	DFR File	3 KB				
👝 swap (E:)	RCGRPLAY.GLO	4/16/2012 11:28 AM	GLO File	12 KB				
01 Project Managem	RCOUTLNE.ICN	4/16/2012 11:28 AM	ICN File	7 KB				
My Web Sites on MS	progname.id	4/16/2012 11:29 AM	ID File	1 KB				
	📝 IS2502.sdl	4/16/2012 11:29 AM	SDL File	5 KB				
📭 Network	📄 defcom.txt	4/16/2012 11:29 AM	Text Document	1 KB				
	ENTINFO.TXT	4/16/2012 11:29 AM	Text Document	3 KB				

The **DEF file** can be used to share configuration settings across different computers.

You can open DEF files as text file (*.txt) using the **Open with** options provided by **Windows Explorer**, as shown below.





SupportFiles.cfg		4/16/2012 11:29 AM	CFG	File	3 KB
CADS-RC.DEF		4/16/2012 11:29 AM	DEF	File	16 KB
S2502.def		A/16/2012 11:20 AM	PEF	File	16 KB
IS13920.def		Open	DEF	File	16 KB
My_Def_File.def	_	Edit	DEF	File	16 KB
RC_LAB.DEF	<u>.</u>	Scan with AVG	her		1 VD
RC SECTD.DEF		Open with		Notepad	
rc_sectw.def		Add to archive	<u>^</u>	WordPad	
cads-rc.dfr		Add to "IS2502.rar" Compress and email		Choose defau	t program
RCGRPLAY.GLO		Compress to "IS2502.rar" and email	- FLO	File	12 KB
RCOUTLNE.ICN		Restore previous versions	CN	File	7 KB
progname.id			– D Fi	le	1 KB

The installed **DEF files** are generally named after the standard code of practice supported. When a new drawing file is opened the configuration settings are inherited by the drawing.

Therefore, if a drawing is opened in an environment where the DEF file is not found in the specified folder then RebarCAD will report the same when opening the file and will work with the configuration settings last saved with the drawing. You will get the following message in the command line.

🛃 AutoCAD Text Window - 21032012 t1.dwg		x
Edit		
Opening an AutoCAD 2010 format file.		
Substituting [simplex.shx] for [scripts].		
Regenerating model.		
CADS-RC reading 'C:\Program Files\CADS\AutoCAD 2011\CADS RC		
9.01\CADS-RC\params\My_DEF_file.DEF' configuration from disk -		
Warning - failed to read 'C:\Program Files\CADS\AutoCAD 2011\CADS R	С	
9.01\CADS-RC\params\My_DEF_file.DEF', resorting to 'CADS-RC'.and dr	awing.	
Reading Database Success		-
Command:	•	

If a drawing is opened in an environment where there is a DEF file available with the same name but with different configuration settings then the configuration settings saved in the drawing file will be used. But note that - any new drawing created in that environment will inherit the configuration settings from the local DEF file.

The DEF file used with the current drawing is shown in the Draw Bar or Draw Range dialog.





a	Not Used	C		Other	dead Dea
Sketch Bar Shape Code :	Not Used	Set Ske	etch Bar	Dn-schedu	lied bar
Shape Code					
010 011 012	010		Suppress c/c	10.07.002.0	
013 014 020 021	© Std. © Sp <u>c</u> l ▼ Del		View	Aignment	Bar Styl <u>e</u>
1 A 2 022	Tel Del		Side 🔻	Outer 👻	Centre 👻
Bar Label Data					
A <u>u</u> lti No. <u>B</u> ars <u>G</u> rade	Size	<u>P</u> rfx	<u>M</u> ark	<u>c</u> /c	Notes
FE-500	◄ 6	•	01	0.0	
Assign Barto					
Member	Release		Drawing Sheet		Revision Mark
UNASSIGNED -	UNASSIGNED	-	UNASSIGNED	•	_
Bid Item	Billing <u>C</u> ode		Bid Structure		
UNASSIGNED Defar -	UNASSIGNED	-	UNASSIGNED	•	
Dimension Data			Se	et No.:	
Edit Dimensions	First Bar	La	st Bar	Extra	act Data
Bar Lengths	0	0		Co	uplers
Dar Longina					-gpiora

Majority of the drawing related configuration settings are stored within the **DEF file**, such as label format, Bar mark format etc, but many configuration such as Bar shape library, Schedule configuration etc. are stored in different physical files but are only referenced in the **DEF** file. The more information about the same is available in <u>Section 7</u>. If you wish to transfer configuration settings from one system to another then please ensure all the referenced files are also transferred. More details are available in <u>Section 2.4</u>.

2.2 Creating DEF File

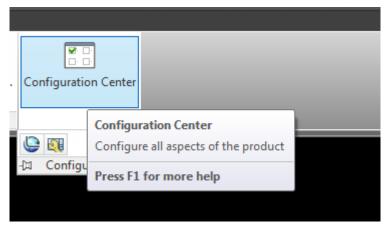
You can create your configuration settings file by changing configuration settings available in the configuration centre.







You can access this as a separate Panel in the RebarCAD ribbon



Or from menu bar RebarCAD ->Configuration -> Configuration Centre

Detailed information about different sections of the configuration centre is given in <u>sectionSection 7</u>

You can change any of the configuration setting used in this dialog and then save the settings into an external file from **Configuration Centre->Miscellaneous Configuration option** using **Write Prototype Settings...** button.





RebarCAD - Miscellaneous Configuration						
Section Marker Configuration						
More Miscellaneous Config						
Schedule Layer Configuration						
Shape Diagram Configuration						
Generate files						
Title Block Configuration						
Write Prototype Settings						
OK Cancel <u>H</u> elp						

Write Prototype Settings... button will write any changes to the configuration settings to an external file. The file name and location is prompted in a subsequent dialog.

	Section Mark	er Configuratio	on	
Writ	ting prototype	settings	EX	
0%			100%	
	Successful	y written to file		
	C:\ProgramDa			
		OK		
Prototype	Settings			
Succ	essfully writter	n to file :-		
U C:\P	rogramData\C	ADS\autoca		s rc indi
9.01	cads-rc\Paran	ns\IS2502.ini		

The default folder where *.ini file is generated is

C:\ ProgramData\CADS\AutoCAD 20xx\CADS RC India 9.01\CADS-RC\params





The first part of the file location, i.e. C:\ ProgramData\CADS\AutoCAD 20xx depends on the installation location you have chosen while installing RebarCAD and the AutoCAD version on which RebarCAD is installed.

You may rename the file generated as a new **DEF file** containing your configurations settings. Ensure that you change the file extension to *.def from *.ini.



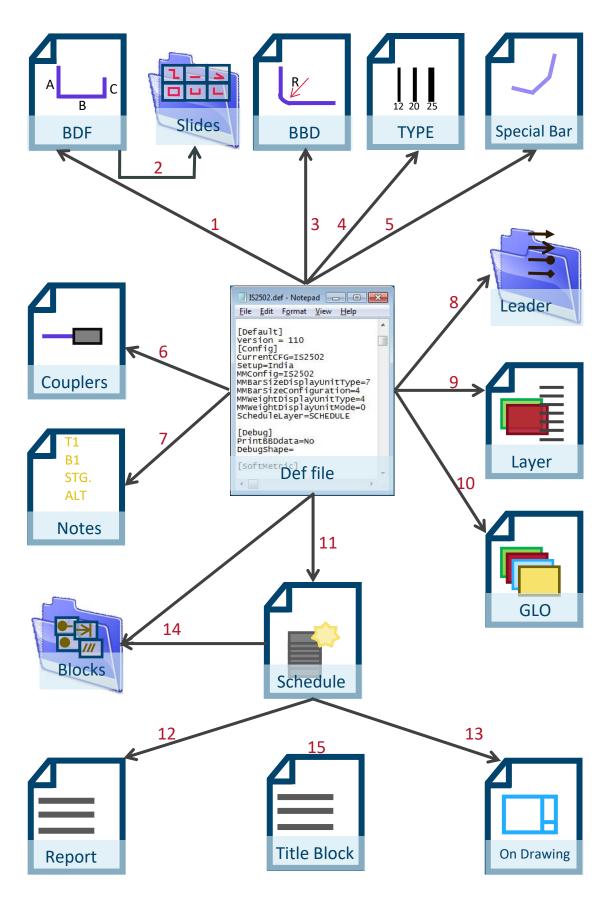
- If you have both *.def file and *.ini file in the same name then the configuration settings stored in *.ini file prevails. Hence when you rename your *.ini file into *.def file remember to name the *.ini file also differently.
- Avoid saving your configuration settings into DEF files supplied by RebarCAD or with the same name otherwise you might lose your settings the next time you upgrade RebarCAD to higher version.
- Write prototype settings... does not write changes to the DEF file in use, rather it update the *.ini file and the drawing.

2.3 Configuration Settings Structure

Configuration settings in **RebarCAD** are organised across various physical files in the system. These files are stored in different folders based on their usage. A schematic representation of the configuration setting is given below along with detailed description.







Please refer to the table below for detailed description of each component





Ref	File Name	Default location	Details
1	BDF	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\params Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *.BDF	Bar Definition File There are a number of BDF files included in the RebarCAD installation based on standard code of practise or normally used bar shapes in any region. BDF files form the basic building block for RebarCAD whereby all information about the bar shape geometry is stored in this file. The data in BDF File is very complex and you should avoid editing it manually. If you want BDF file to be customised based on your company practise then you can contact <u>CADS Support</u> for more information. Normally a single BDF file is sufficient to detail a RebarCAD drawing. In special cases you can load up to three BDF files for a single job. The three different BDF files are called Primary, Secondary and Tertiary files. More details are available in <u>Section 7.7.1</u> .
2	Slides	C:\Program Files\CADS\AutoCAD 2011\CADSRC India 9.01\CADS-RC\params Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *.SLB	 The slide files contain the image of the bar shape defined in BDF file. This image is used in various places in the application such as draw bar dialog to display bar shape on the dialog. For each bar shape AutoCAD blocks are stored in the following locations: C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\DWGSketches. The shape blocks stored here are the 'master' blocks used for Bar Shedule on Drawing and Reports C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\DWGSketches\DimSketches. The shape blocks stored here are used display of for Dimensioned Sketches in bar schedule C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\DWGSketches\LabelSketches. The shape blocks stored here are used display of for Dimensioned Sketches in bar schedule C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\DWGSketches\LabelSketches. The shape blocks stored here are used display of for Dimensioned Sketches in bar schedule C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\DWGSketches\LabelSketches. The shape blocks stored here are used for display of bar shapes on Bar label.
3	BBD	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\params Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *BBD.TXT	BBD file stores bending rules based on supported standard code of practise. The data in BBD File is very complex and you should avoid editing it manually. If you want BBD file to be customised based on your company practise then you can contact <u>CADS Support</u> for more information.





4	ТҮРЕ	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\params Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *TYPE.TXT	TYPE file stores different bar grades and diameter as defined in supported standard code of practise or any special bar grade or diameter used in particular region.
5	Special Bar	C:\ProgramData\CADS \AutoCAD 2011\CADS RC India 9.01\CADS- RC\Params For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File name Specials.spl	As per default configuration settings, new bar shape definition created using Special Bar feature in RebarCAD is saved in the drawing. If you choose to save in an external file, then all the special shapes created will be saved in this file. You will also have to enable the configuration to load Special Bars from this file when you open the drawing next time or this Special Bar file is used in some other system. It is recommended to get bars customised as BDF file rather than Special Bar in case you wish to use the special shapes repeatedly. If situation warrants that you have to use Special Bar for repetitive use then it is recommended to create Specials.spl file in one system and then distribute to others. Avoid multiple systems appending Special bars to the same Specials.spl file.
6	Couplers	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS- RC\Couplers Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *.CPL	A majority of the coupler manufacturers are supported by RebarCAD and are available in the standard installation by default. The file name is known by the coupler manufacturer's name and can be opened as a text file. In the same folder you will find sub folders for each manufacturer where additional details about the coupler are available and RebarCAD invokes them from coupler dialog as and when required. You can also create your own coupler file, for example single file containing couplers from more than one manufacturer and can specify the folder location and file name from where the coupler details are to be read. Please refer to the <u>Section 7.5</u> for more details.
7	Notes	C:\ProgramData\CADS \AutoCAD 2011\CADS RC India 9.01\CADS-	Standard notes can be used while drawing bars or ranges in RebarCAD . The Notes file can be opened as a text file and you can add or amend Standard notes as per your project requirements.





		RC\Params For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File name RC_LAB.def	
8	Leaders	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\Blocks Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *.dwg	RebarCAD can be configured to use up to three types of Leaders in a drawing. The leader type is required to be configured in the Label Configuration. The leader arrow is defined by AutoCAD blocks which have to be placed in default folder location.
9	Layer	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\params Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File name RC-LAY.txt	You can define the layers you wish to populate by default in your new drawings.
10	GLO	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\Params Where folder path C:\Program Files\CADS refers to the location where you have installed	Group Layering Option data is stored in the file which can be opened as text file. This file is used only when GLO is configured as per Configuration centre->Global/General Configuration->GROUPLAYERING





		RebarCADand\AutoCAD2011\refers to the AutoCADversiononwhichRebarCADis installedFile extension *.glo	
11	Schedule	C:\ProgramData\CADS \AutoCAD 2011\CADS India RC 9.01\CADS-RC For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File type *.xml	The bar schedule related configuration as available with Configuration centre->Configure bar schedule settings is stored in this file.
12	Reports	C:\ProgramData\CADS \AutoCAD 2011\CADS RC India 9.01\CADS- RC\Templates\Reports For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File type *.repx	There are three types of Reports which can be configured. Minor changes could be done using in built report editor, for major changes you can request <u>CADS Support</u> to customise the same for you.
13	On Drawing	C:\ProgramData\CADS \AutoCAD 2011\CADS RC India 9.01\CADS- RC\Templates\SOD_Ta bles For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed	Schedule on Drawing template can be customised using RebarCAD features as well as can be customised by <u>CADS</u> <u>Support</u> on request.





		File type *.xml	
14	Blocks	C:\Program Files\CADS\AutoCAD 2011\CADS RC India 9.01\CADS-RC\Blocks Where folder path C:\Program Files\CADS refers to the location where you have installed RebarCAD and \AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File extension *.dwg	RebarCAD relies on numerous AutoCAD blocks for drawing bars and ranges, such as Range end markers, revision clouds, leader arrows etc. All these Blocks are stored in the file path as given here. These blocks are configured through Configuration centre .
15	Title Blocks	C:\ProgramData\CADS \AutoCAD 2011\CADS RC India 9.01\CADS-RC For Window 7 and will be available in Document & Settings\All users\ folder in Window XP system\AutoCAD 2011\ refers to the AutoCAD version on which RebarCAD is installed File name Titleblockconfig.xml	This file keeps the details of title block which are configured as well as how the attributes are mapped to Bar Schedule . The file location cannot be configured hence it should be always placed in the default location.

2.4 Change Configuration Settings

You can change configuration settings for the drawing you are working on from Ribbon





Co	onfiguration Center		
_			
10			
DH1	Carfin		
A	Change Detailing	Standard	
	Select the DEF file standard	that corresponds to your required detailing	
	Press F1 for more	e help	

Or from Menu bar: RebarCAD ->Configuration -> Configuration Centre->Change Detailing Standard

When you select this option yo	ou get a dialog to select the	DEF file you wish to use.
--------------------------------	-------------------------------	---------------------------

A Please choose Config file							
CADS-RC	CADS-RC > params - + Search params						
Organize 🔻 New fold	er						
★ Favorites	Name	Date modified	Туре				
🧮 Desktop	CADS-RC.DEF	4/16/2012 11:29 AM	DEF File				
🐌 Downloads	IS2502.def	4/16/2012 11:29 AM	DEF File				
📃 Recent Places	📄 IS13920.def	4/16/2012 11:29 AM	DEF File				
	My_Def_File.def	4/16/2012 11:29 AM	DEF File				
🥃 Libraries	RC_LAB.DEF	4/16/2012 11:29 AM	DEF File				
Documents	RC_SECTD.DEF	4/16/2012 11:28 AM	DEF File				
🎝 Music	rc_sectw.def	4/16/2012 11:28 AM	DEF File				
Pictures							
Videos 🗧							
🖳 Computer							
🏭 OS (C:)							
👝 Datas (D:)							
👝 swap (E:)							
01 Project Mana <u>c</u>							
Mv Web Sites on 🐣	<						
File <u>n</u>	ame: *.def 🔹	(*.def)	•				
		Open (Cancel				

It is recommended to use this option ONLY to apply simple configuration changes to an existing drawing file such as annotations, drawing entities etc. In case there are bars in the





drawing drawn with different **Bar Shape library** or **Bar Grade library** then you may face unexpected errors.

2.5 Transferring Configuration Settings

This section explains in detail how to transfer your **RebarCAD** settings from one computer to another.

If you have a large number of **RebarCAD** users in your team, it is recommended to create the configuration settings in one system then copy the same to another system. This will ensure consistency in drawing and schedule produced by your team.

As explained in <u>Section 2.2</u> and <u>Section 2.4</u>, the **DEF file** stores a large number of configuration settings. At the same time it references to other physical files such as bar shape library file. Therefore if you wish to transfer configuration settings from one system to another please copy all the edited configuration files to the new system to the appropriate folder locations. Note that you have to copy only the edited files, the default configuration files are installed automatically in each system when **RebarCAD** is installed. For example you are using the default **Revision Callout** (RevisionCallout.dwg) block then the block is not required to be copied to the new system.



- As far as possible try not to change the default folder locations, this will help to transfer files to systems where **RebarCAD** is installed in different location or different version of AutoCAD without much problem. Otherwise **RebarCAD** will be forced to refer to the 'hardwired' folder location of the original system.
- You may keep your configuration files in a network location and configure all instances of **RebarCAD** to share the same. Although it is not a recommended practice, if you still wish to do so, then use the Windows standard **Map network drive...** option to map a network location as a local drive.





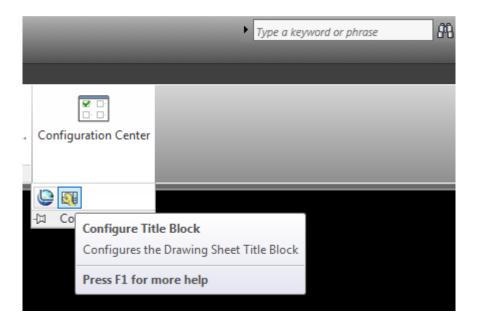
3 Title Blocks

This chapter describes how to configure your Drawing Title Block to create **Drawing Sheets** in **RebarCAD**.

3.1 Configuring Title Blocks

RebarCAD recognises whether an AutoCAD block is a title block by reading through its attributes. **RebarCAD** keeps a library of commonly used attribute for the parameter Drawing Number, and matches the same to with any title block to automatically recognise the Drawing title block.

You can configure any AutoCAD block as a title block by mapping its attribute with **RebarCAD** Schedule parameters. You an access the mapping dialog from **RebarCAD** Ribbon, **Configuration Centre** Panel



Or from RebarCAD Menu Bar Configuration->Configure Title Block.

The **Configure Title Block** dialog is also presented when you open **RebarCAD** for the first time.





📚 RebarCA	D - Configure Title Block		×
First sele Then ch	screen before using RebarC to allow drawing sheets crea linked with the bar list. ect your title block, which will oose the field name that corn		iry
	r title block: 🔛 Block nar	me: a1cads AutoCAD Attribute Name	▼ ▲
Dr	rawing Number	DRAWINGNO	
	rawing Title	DWGTITLE1	
	cale	SCALE	
Dr	rawn By	DRAWN	Ξ
Ch	necked By	СНКD	
lss	sue Date	DATE	
Dr	rawing Revision Mark	DRAWINGSHEETREVISIONMARK	
Cli	ient	CLIENT	
An	chitect Name	ARCHITECT	
Jo	b Number	JOBTITLE1	
Pr	oject Name	JOBTITLE2	
Sit	te Reference1	SITEREFERENCE1	
Sit	te Reference2	SITEREFERENCE2	
M	aterialFor		
Lo	ocation		
Remove	this block	Apply Cancel Help	

You can select the title block you wish to configure as **RebarCAD** drawing Sheet using the option Select your title block:. This command will take you to AutoCAD and you can select any AutoCAD block you wish to configure.

Once the block is selected it will list all the attributes available in the AutoCAD block in the right hand side panel **AutoCAD Attribute Name**. The left hand side panel Title Block fields are **RebarCAD** parameters which is expected to be mapped. You should assign each **RebarCAD** parameter to a AutoCAD Attribute such that whenever you edit any value in the Title block in future, it will automatically get updated to **RebarCAD**.

If your Title Block has no attributes, the **Configure Title Block** dialog box will offer you the chance to add a single attribute automatically, to represent the drawing number. Alteast one attribute, mapped as **Drawing Number** is required for a AutoCAD block to be used as **RebarCAD** title block.





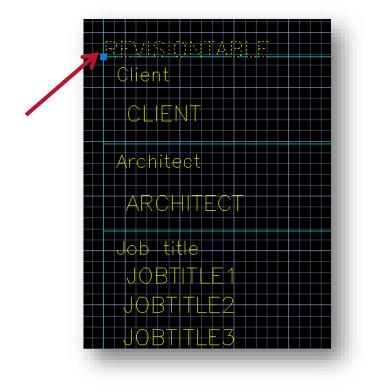
You can select the **Remove this block** button if you want to remove the Title Block from the configured list of Title Blocks. Once the configured title block is removed, inserting the AutoCAD block in the drawing will not be considered as **RebarCAD** drawing sheet.

You can configure any number of Title Blocks in **RebarCAD**. You can always review the blocks you have configured and make changes in the Block name list. The details are saved to the title block configuration file as explained in <u>Section 2.4</u>.

3.2 Configuring Revision Table in Title Block

A revision table is added when you issue a drawing for the first time. Thereafter, the same table is updated on every drawing issue. The revision table can be configured as defined in <u>Section 6</u>

The location of the revision table in the title block is recognised by the attribute **REVISIONTABLE**



The direction in which the revision table should grow is defined in the revision table customisation as described in <u>Section 6</u>.

For more information on attribute please refer to any of the title blocks supplied with **RebarCAD** installation and are available in the following location.

C:\Program Files\CADS\AutoCAD 2011\CADS Viewport Manager 9.00\Blocks

and

C:\Program Files\CADS\AutoCAD 2011\CADS Scale 9.00\Blocks





In case the **REVISIONTABLE** attribute is not available in the title block then **RebarCAD** will ask you to place the revision table manually when doing the drawing issue for the first time.



In case AutoCAD block is having an attribute name similar to generally used for Drawing number attribute then the AutoCAD block might get added to the drawing as a title block. Use the Remove this block option in the Configure Title Block dialog to reinstate the block as ordinary AutoCAD block. Once done ensure you distribute the titleblockconfig.xml (refer Section 2.4) to all affected systems.





4 Profiles & Workspaces

AutoCAD Profiles store your drawing environment settings. You can create AutoCAD profiles for different users or for different projects. You can share these profiles by importing and exporting them as files (*.arg).

When you install **RebarCAD**, a new profile (for example **CADS-RCi V9-10** for **RebarCAD** v9.10), based on the default AutoCAD profile is created. This profile includes the following **Support File Search Path** and **Working Support File Search Path**. These paths are essential for loading and running **CADS** products.

A Options	—
Current profile: CADS-RCi V9-10 쳠 Current drawing: Drawing1	.dwg
Files Display Open and Save Plot and Publish System User Preferences Drafting 3D Modeling Se	election Profiles
Search paths, file names, and file locations:	
드····卷 Support File Search Path	▲ <u>B</u> rowse
····· → C:\program files\common files\cads shared\acadsupp\r18	A <u>d</u> d
	Remove
····· → C:\program files\cads\autocad 2012\cads rc india 9.01\cads-rc	
	Move Up
	Move Down
····· → C:\program files\cads\autocad 2012\cads rc india 9.01\cads palettes	Set Current
····· → C:\program files\autodesk\autocad 2012 - english\help	
·····→ C:\program files\autodesk\autocad 2012 - english\express	
·····→ C:\program files\autodesk\autocad 2012 - english\support\color	
C:\Program Files\Common Files\CADS Shared\AcadSupp\	
OK Cancel	Apply Help





urrent pr	rofile:	CADS-RCi V9				nt drawing		ng1.dwg		
Files	Display	Open and Save	Plot and Publish	System	User Preferences	Drafting	3D Modeling	Selection	Profiles	
Search	n paths, f	ile names, and file l	ocations:							
		C:\program files\a	utodesk\applicatio	onplugins \	fusionplugin.bundle	e\contents	\resources\	*	Browse	
		C:\Program Files\(Common Files\CAD	OS Shared	d\AcadSupp\					
		C:\Program Files\(Common Files\CAL	OS Shared	d\AcadSupp\R18				A <u>d</u> d	
		C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01				Remove	
		C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01\C/	ADS-RC				
		C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01\C/	ADS Drawi	ng Environmen	t	Move <u>U</u> p	
		C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01\C/	ADS Scale		=	Move Down	
		C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01\C/	ADS Viewp	ort Manager		Move Down	
	L	C:\Program Files\(CADS\AutoCAD 2	012\CAD	S RC India 9.01\C/	ADS Palett	es		Set Current	
<u> </u>	😤 Wor	king Support File S	earch Path							_
		C:\program files\c	ommon files\cads	shared\a	cadsupp/					
		C:\program files\c	ommon files\cads	shared\a	cadsupp\r18					
		C:\program files\c	ads\autocad 2012	<pre>2\cads rc</pre>	india 9.01					
		C:\program files\c	ads\autocad 2012	<pre>2\cads rc</pre>	india 9.01\cads-rc					
		C:\program files\c	ads\autocad 2012	<pre>2\cads rc</pre>	india 9.01\cads dra	awing envi	ronment			
		C:\program files\c	ads\autocad 2012	<pre>2\cads rc</pre>	india 9.01\cads sc	ale				
		C:\program files\c	ads\autocad 2012	<pre>2\cads rc</pre>	india 9.01\cads vie	wport man	ager	-		
					_	ОК				

To run **RebarCAD** using your own profile, you will have to port these paths to your profile. You can also copy the **RebarCAD** profile and rename and update this to your requirements. When you install any upgrades in future, they will overwrite this **RebarCAD** profile. Therefore, you will have to update the same whenever you upgrade to higher version of **RebarCAD**.

When you install **RebarCAD**, a desktop icon is created on your desktop. The **RebarCAD** desktop loads the default profile when **RebarCAD** is started. It is specified in the desktop item property

"C:\Program Files\CADS\AutoCAD 2012\CADS RC India 9.01\RebarCAD 9.10 (AutoCAD 2012).exe" /t "C:\Program Files\Common Files\CADS Shared\AcadSupp\CADSISO.dwt" /p "CADS-RCi V9-10"

Where, keyword **/t** points to the default drawing template file and **\p** the default profile. If you wish you can specify your own profile – provided you have configured your profile to load **RebarCAD**. Every time you install **RebarCAD** it will overwrite the default icon. Therefore it will be useful to create your own shortcut in case you are using different template file and/or profile.





Security	Details	Previous Versions
General	Shortcut	Compatibility
Re	ebarCAD 9.10 (AutoCAD	2012)
Target type:	Application	
Target location:	CADS RC India 9.01	
Target:	AcadSupp\CADSISO.	dwt" /p "CADS-RCi V9-10"
<u>S</u> tart in:	"C:\Program Files\CAL	DS\AutoCAD 2012\CADS F
Shortcut key:	None	
<u>R</u> un:	Normal window	•
Comment:	RebarCAD 9.10 (Auto	CAD 2012)
Open <u>File</u> L	ocation Change lo	con Advanced
Open Lie D		

Similarly if you want to run AutoCAD without loading any CADS application, you can specify a **/p** profile designator that loads AutoCAD **<<Unnamed Profile>>** as shown below.

à

RebarCAD 9.10 (AutoCAD 2012)					
Target type:	Application				
Target location: CADS RC India 9.01					
<u>T</u> arget:	dSupp\CADSISO.dwt" /p "< <unnamed profile="">>"</unnamed>				

AutoCAD Workspace is a set of menus, toolbars, palettes, and ribbon control panels that are grouped, and organized to work in a custom, task-oriented drawing environment.

When RebarCAD is installed, a RebarCAD Workspace is created, (as shown below).





					Aut	toCAD 2012 -
Тос	ols Draw Dimension	Modify Para	ametr	ic Window	Help	RebarCAD
	Workspaces	•		Drafting & Ann	otation	
м	Palettes	•		3D Basics		
M	Toolbars	•		3D Modeling		
	Command Line	Ctrl+9		AutoCAD Classi	ic	
D	Clean Screen	Ctrl+0	\checkmark	RebarCAD		G
ABC	Spelling			Save Current As	i	
R	Quick Select		<u> </u>	Workspace Sett	ings	
	Draw Order	+		Customize		
	Isolate	+		Display Worksp	ace Label	
	Inquine					

The **RebarCAD** Workspace shown above is a custom version of the standard 2D Drafting and Annotation workspace. It has added menus, toolbars, palettes, and ribbon control panels necessary for running **CADS** products. **RebarCAD** Workspace (**CADS.CUI** file) is supplied as an enterprise CUI which is always in a read-only format, as shown below.

🚰 Customize User Interface		
Customize Transfer		
Customizations in All Files	\$	Properties 🖈
All Customization Files]	
ACAD	Â	⊿ General
Trafting & Annotation Default SD Modeling		Name CADS Display Name CADS
		Filename C:\Users\kaarthickb\AppData\R
Quick Access Toolbars		
ert Carl Ribbon ert Carl Ribbon ert Carl Ribbon		
ie · III Menus ·····□ Quick Properties		
+ 		
₩	E	
⊕-(^C) Double Click Actions ⊕-(^C) Mouse Buttons		
LISP Files ⊕ - (\$) Legacy		
CADS (Enterprise - read only)		
RebarCAD (current) Guick Access Toolbars		
ie C = Ribbon ie I = Toolbars		
Ēi Quick Properties ⁺ ⊡ Rollover Tooltips		
∰-∿ि∰ Shortcut Menus स∵-ि Keyboard Shortcuts		
CO Double Click Actions	-	General
Command List:	×	
	<u> </u>	Cancel Apply Help (

24





If you wish to customise your user environment, you can either create a new workspace and port **RebarCAD** items into the same or **Save As.. RebarCAD** workspace in a different name and port your settings into the same.

By default **RebarCAD** is set as your default workspace, if you wish to force open a particular workspace every time you launch AutoCAD then you can use the keyword **\w** and specify your workspace in the shortcut icon.

Security	Details	Pr	evious Versions			
General	Shortcu	ıt 👘	Compatibility			
RebarCAD 9.10 (AutoCAD 2012)						
Target type:	Application					
Target location	: CADS RC India 9.	01				
<u>T</u> arget:	AcadSupp\CADS	SISO.dwt" /p	"CADS-RCi V9-10"			
<u>S</u> tart in:	"C:\Program Files	\CADS\Auto	CAD 2012\CADS F			
Shortcut key:	None					
<u>R</u> un:	Normal window		•			
Comment:	RebarCAD 9.10 (AutoCAD 201	2)			
Open <u>F</u> ile L	ocation <u>C</u> han	ge Icon	Advanced			

As stated above **RebarCAD** creates its own profile and adds **RebarCAD** as enterprise CUI. If you wish you can specify your own profile name to which you wish to use while installing **RebarCAD**. Note that the profile you specify should not have any Enterprise CUI as AutoCAD supports only one Enterprise CUI and **RebarCAD** is always created as an Enterprise CUI.





RebarCAD 64-bit		×
	AutoCAD	
RebarCAD World Case, Bebar Software	Please select the Autodesk product available in your system for which you would like to install CADS product	
Wand Class Rebar Sattware	AutoCAD 2012	
No.		
the taxes of	If you are an advanced AutoCAD user you car configure <u>CADS AutoCAD environme</u>	et.
L'un north	in you are an advanced Autochto daer you can coningure <u>chtos Autochto environme</u>	
Help	Cancel < <u>B</u> ack Nex	>

CADS AutoCAD Environment Options						
AutoCAD Profile Name						
Please enter the AutoCAD Profile name that you would like to use to store configuration settings for:						
CADS-RC	CADS-RCi V9-10					
-Drawing Temp						
Please enter t	he name of the drawing template file to be used on all new drawings for:					
CADS-RC	C:\Program Files\Common Files\CADS Shared\AcadSupp\CADSISO.dwt					
Help	OK Cancel					

Please get in touch with <u>CADS Support</u> if you have any queries or wish to get your AutoCAD profile customised to work with **RebarCAD**.







- By default menu bar is not displayed, you may enable it by typing MENUBAR in the AutoCAD command line and setting the value to 1. You can also customise your workspace to always display the menu bar.
- Your last changed settings are saved when you close AutoCAD and you are presented with the same when you open AutoCAD subsequently.
- There is no profile file (*.arg) supplied by RebarCAD, but you can save any profile as AutoCAD profile file (*.arg) and reuse in different machine.





5 Report Templates

This section describes how to undertake some of the most common report template customisation tasks.

RebarCAD contains a free report designer. You can access this through **RebarCAD** > **Configuration** > **Configuration Centre** > **Configure Schedule Settings** > **Report** > **Customise** buttons, as show below.

📚 RebarCAD - Configure Settings 🛛 💽							
Configure Settings							
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.							
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate							
Bar schedule report format							
Template Default (Dimensioned Sketches) Customise							
Weight report format Template Weight Report by All Scheduled Bars Customise							
Weight summary format Template Weight Summary by Type/Size Customise							
Save Apply 🔀 Close 🦃 Help							

The **Report Designer** has many options to customise reports as per your requirement. These report formats are stored as *.REPX files as explained in <u>Section 4</u>. At a time you can work with up to three report formats. By default, **RebarCAD** support the following

- Bar Schedule Report
- Weight Report
- Weight Summary Report





There are two reports available in the default location given in section 4. Select the one which resemble closest to your requirement and save the report in a different name.

📚 Select a Report Template						
CADS-RC + Templates + Reports + 47	Search Reports	م				
Organize 🔻 New folder	!≕ ▼					
✓ Favorites Image: Desktop Image: Desktop Image: Downloads Image: Downloads Image: Downloads Image: Recent Places Image: Documents Imag	Date modified 4/16/2012 11:29 AM 4/16/2012 11:29 AM	Type REPX File REPX File				
swap (E:) O1 Project Manac Mv Web Sites on	Report Templates (*.repx Open) ancel				

With **Report Designer** you can configure any type of report. A simple overview is given below. **CADS** also provides free report customisation service hence do not hesitate to contact <u>CADS Support</u> for your report customisation request.

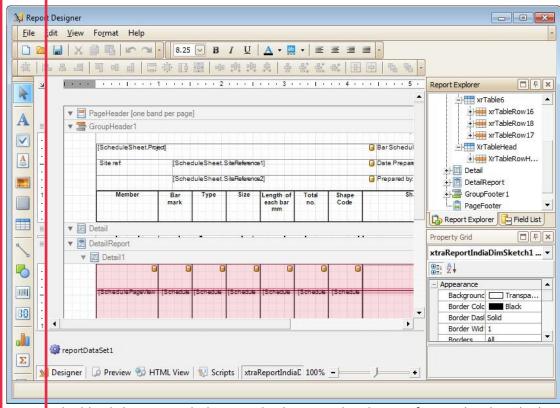
By default, the Report Designer will open in Designer mode





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								+ Detail
	-	[ScheduleS	Sheet.Project]				😡 Bar Schedul	+ 🛅 DetailReport
A	-	Site ref.	[Schedule	Sheet.SiteReference	e1]		📴 Date Prepara	+ 🚟 GroupFooter 1
70	1		[Schedule	Sheet.SiteReference	e2]		Prepared by:	Pagerooter
	- 1	Mem	ber Bar T	ype Size	Length of Tot	al Shape	Sh	
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		🔻 🗐 Detail						Report Explorer 🔁 Field
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2	M Des		😔 HTML View 🛛 🐐		Dementinglia C 10	0%	•	

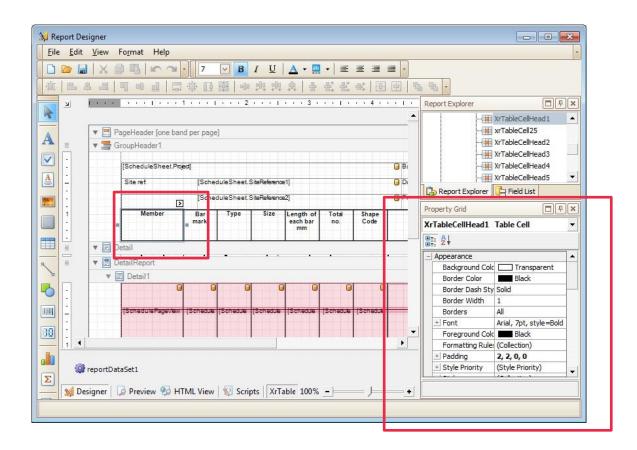
You can create new controls by copying existing ones or by selecting a new one from left hand side explorer.



You can double click on any edit box to edit the text. Also the text format, border, shading etc can be controlled by the **Property Grid**.







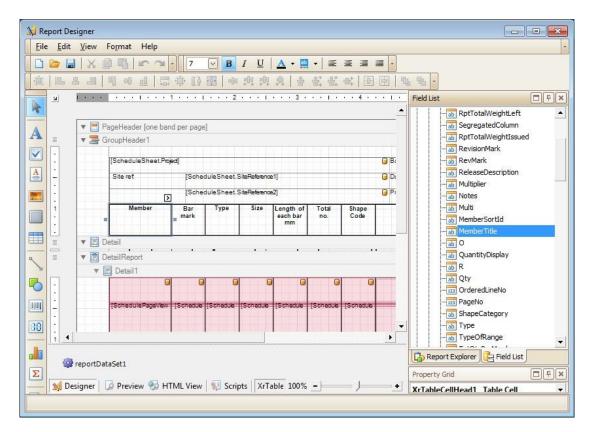
You can assign any bar parameter to cell from **Property Grid ->Data ->Data Binding->Text - >Binding**. All bar parameters exposed by **RebarCAD** to the **Report Designer** is available here.





🔊 R	eport De	signer											×
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11	-			ISchei	duleSheet.	SiteReferenc	e21				Report Explorer	Field List	
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													11,

The supported bar parameters can also be viewed in the Field List







You can carry on simple customisation to your header likewise. For example, if you wish to

add your company name in the header then select the option Label from the Standard Control toolbar and add it to the report. You may customise the appearance as explained earlier from Appearance option in the Property Grid.

A Report Designer	
Eilc Edit Vicw Format Help	
	•
Tool Box #X x	Report Explorer
Standard &	
Pict	B Report Explorer
Panel	
	Property Grid
Line 2 Member Bar Type Size length Tratal Shape 2* P	label1 Label
Shape	- Appearance
Image: Bar Image: Bar	Background Cc Transparent Border Coler Black Border Dash St Sold Burder Wicth 1 Borders None + Font Arial, 24pt Foreground Cc Black FormattingRul (Collection)
Image: Pag Image: Pag Image: Pag	Font Gets or sets the control's font.

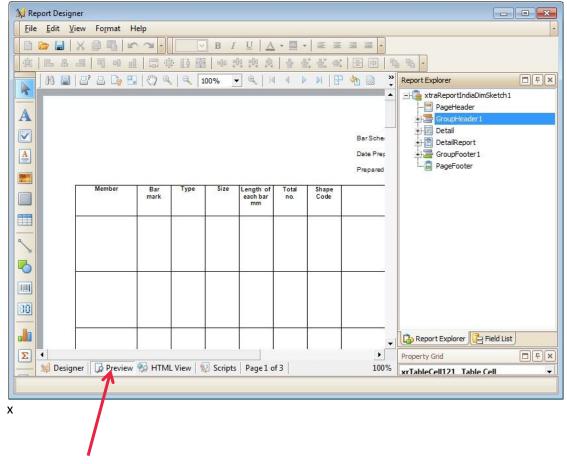
Similarly, you may add logo in the header by choosing the **Picture Box** option form the **Standard Control** toolbar and uploading a picture in the **Data Binding ->Image** option in the **Property Grid**.





🙀 Report Designer				
<u>File Edit View Format Help</u>				
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ToolBox PX v		Report Explorer		
Standard &	×	xtraReportIndia1		
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	roupHeader1	- GroupHeader1		
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	My Company	A xrLabel2		
Picture Box	My Company			
Panel	[ScheduleSheetProject]	Report Explorer Field Lst		
	Site ref. [ScheduleSheet.SiteReference1]	Property Grid		
Table F .	[ScheduleSheet.SiteReference2]	pictureBox1 PictureBox -		
Linc Linc	Member Bar Type Size Length Total Shape A^ B^			
	mark of no. Code			
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	🌛 Preview 💁 HTML View 🙀 Scripts 🛛 pictureBoxl (Loci 100%	Bndable. Gets or sets the image to display		
Picture Box				

Once you are done with your customisation you can preview the report by clicking on the **Preview** tab available in the left bottom tab.









- It is always easier to customise the report by editing an existing Report Template (*.repx).
- Never update the default Report Templates (*.repx) supplied in the RebarCAD installation as they will get overwritten when you reinstall RebarCAD. Therefore, always Save As.. the customised Report Template (*.repx) in a different name than the default ones.
- The Report Designer is very powerful and can handle literally all types of reports. At the same time, its versatility could confuse any new user, therefore when in doubt, please do not hesitate to contact <u>CADS Support</u> to get your report template customised.





6 Schedule on Drawing

RebarCAD uses AutoCAD Tables to generate the schedules on drawings based on predefined templates. You can customise the schedule on drawing report format by defining a series of AutoCAD tables i.e. describing the various rows in the schedule on drawing.

The Schedule on Drawing template is stored in the form of XML file (*.xml) and is called a **Table Template**. Each **Table Template** file can contains more than one format. For example in the same XML file you can define a **Schedule on Drawing** with logo and another without logo. The **Table Template** file (*.xml) may also contain

- Revision Table template
- Weight Table on Drawing template
- Text List on Drawing template

A set of default template files are installed when you install **RebarCAD**. These **Table Template** files are installed in the following location:

C:\ProgramData\CADS\AutoCAD 20xx\CADS RC India 9.01\CADS-RC\Templates\SOD_Tables

Sample AutoCAD drawing containing AutoCAD tables used to create the **Table Template** files (*.xml) are also provided in the following location:

C:\ProgramData\CADS\AutoCAD 20xx\CADS RC India 9.01\CADS-RC\Templates\Template Creation Tables

Where AutoCAD 20xx is the version of AutoCAD on which **RebarCAD** is installed. For Windows XP the template will be installed in **Document & Settings** folder.

The Schedule on Drawing Template can be configured from **Configuration Centre-> Configure Schedule Settings->Schedule->Template file name.** You can browse for the **Table Template** file (*.XML) and the formats contained in the file will be displayed in the corresponding template type options.





🕏 RebarCAD - Configure Settings 🛛 🛛 💌					
Configure Settings					
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.					
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate					
Schedule type Fixed Length Number of lines per page 10 Schedule on drawing display options					
Display schedule Drawing Sheet Place weight summary table All					
Shape table type Prompt while placing Place shape diagrams table					
Schedule on drawing and printed report data options					
✓ Include standard straight bars					
✓ Include tapered range straight bars Advanced options					
✓ Show dimensioned bar shape sketches Preset schedule format					
✓ Display leg dimensions for straight bars Combine bars options					
✓ Display bar mark for straight bars					
Template details					
Template file name C:\ProgramData\CADS\autocad 2					
Revision table template C:\ProgramData\CADS\autocad 2012\cads rc india 9.01\cads-rc					
Schedule table on drawing template CADS STANDARD					
Weight table on drawing template Default					
Text list on drawing template Default					
Save Apply 🔀 Close 🧐 Help					

You may wish to use the supplied AutoCAD tables to create your own schedule template file. Alternatively you may draw your own AutoCAD table and customised as described below.

1. Create an AutoCAD DWG file containing AutoCAD Table entities to describe different types of row – for example Header Row, Normal data row, Data row with Attached diagram etc. Please refer to one of the drawings supplied with the installation as explained above.





	1			1	1
Modify 🔻	Couplers 🔻	Annotate 💌	Generate 💌	Check 🔻	Schedule 💌

Header Section

10	Schedule Number <dtcdrawingsheetna></dtcdrawingsheetna>							
	LOCATION	Mark Designatio N	Size And Type	Number Of Sets	NUMBER Per Set	total Number	LENGTH	Shape (All Dimensions are in Accordance with this standard unless Otherwise stated)

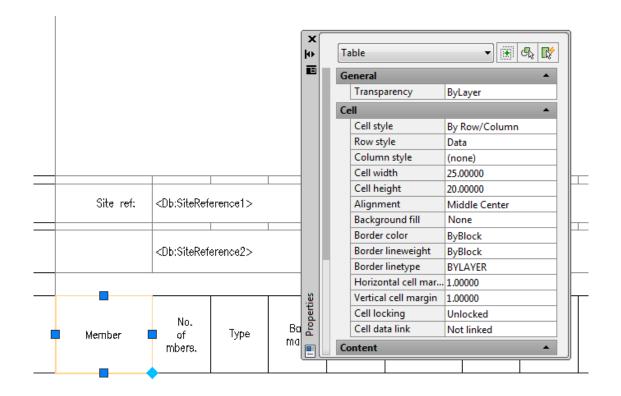
Normal Data Line Section

			<dbxmemberti tle></dbxmemberti 	<db:barma rk></db:barma 	<var:ty peSize></var:ty 	<db:multi plier></db:multi 	<db:totq tyPenMe mber></db:totq 	<db:total Quantity ></db:total 	<dbxleng th></dbxleng 	<var:shapediagram></var:shapediagram>
Blar	٦k	D	ata	Lin	е	Sec	ctic	n		

- 2. Format the AutoCAD table style to suit the way you wish to represent Schedule on drawing, i.e. borders, cell widths, cell margin etc. The first column in the table should provide the height of the table row.
- 3. If the row is supposed to show a static text then you may enter the same using standard AutoCAD Table Content. For example header rows as shown below. You may also attach an image to the cell.



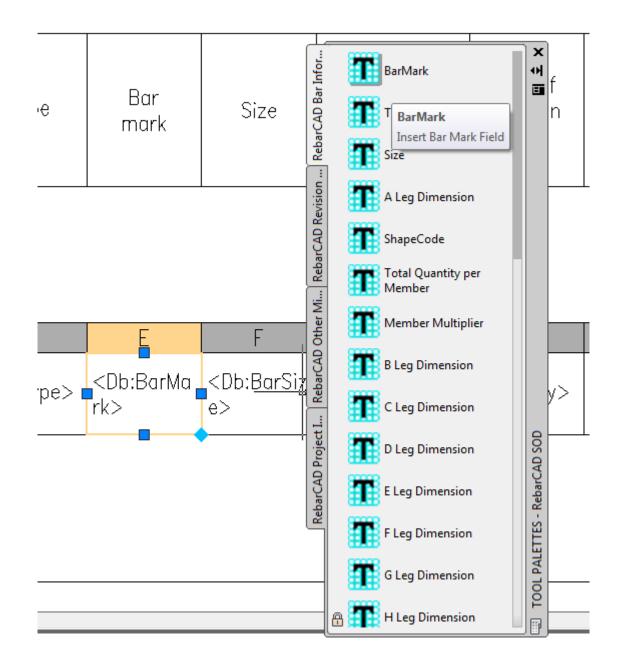




4. If the table row is linked to standard bar parameter then it should be described using **RebarCAD SOD** Tool Palette. The tool palette has four palettes with different bar parameters. You may click on the Icon and then select the cell in the table to link it to the parameter, for example Bar Mark as shown below.







 Once you are through with all the sections i.e. Header, Data row, Footer etc you may invoke the **RebarCAD** feature which will save the description here as Schedule on Drawing Template. The command is available in the Menu bar command **RebarCAD** ->Configuration->Select Tables for Templates->Schedule on Drawing.





AutoC		12 - NOT FOR RESALE	CA	DS STAND	ARD.dwg				
Help	Reb	arCAD CADS SCALE	C	ADS-VPM	CADS-DE				
		Draw Bar Draw Range Labelling Leaders	* * *	9 🔨 ই - 🗵 💯		Issue [Drawing Sheet	Configuration Center	¢ F
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		Couplers Accessories	+						
		Tools Links	+						
		View Schedule Place Schedule View Offcut List Review	•						
		Configuration Help	•	-	ige Detailing Standard iguration Center				
Siz	e	Length of each bar + mm		Doub	tips Toggle ble Click Edit Toggle igure Title Block t Tables for Templates	•	Revision 1		
							Weight Ta Text List		

6. The command will invoke a dialog, browse for the Table template file you might wish to add your new template to. For example, you might be fine with the existing revision table template but would like to update a new Schedule on Drawing template. Once done give a new name to the Schedule on Drawing template name.





RebarCAD - Select Tabl	les for Barli	st on Drawing Temp	olate	X	
Create AutoCAD Bar List Template Customize your AutoCAD bar list tables by creating your own templates. Each template consists of a number of predefined AutoCAD table sections, as described by the 'View Details' option, that can be used to customize the layout and contents of your tables.					
Select table template file	e for append	ling new tables			
Select table template	C:\Program	nData\CADS\autocad	2012\cads	rc india !	
Table details for bar list	on drawing	template			
Template name		My_new_SOD_temp	late	View Details	
Header section				Select >>	
Normal data line section	Normal data line section			Select >>	
Wrapped data line secti	Wrapped data line section			Select >>	
Wrapped data line secti	on with diag	ram		Select >>	
Notes section				Select >>	
Blank data line section				Select >>	
Diagram line section				Select >>	
Footer section				Select >>	
Click here to view the customization guide					
[Save	Save As	Cancel	Help	

- 7. Now for each of the section defined on the left select the table as was customised in point 1 to point 4 above. You may choose to ignore any section if you envisage you will not be using for your Schedule on drawing, for example Footer section.
- Once done you may save the new Schedule on template in the same Table Template (*.xml) file or Save As.. the Schedule on Drawing Template to a new Table Template (*.xml) file.
- 9. Now the Table Template (*.xml) file is ready to be configured in **RebarCAD**.

The same procedure is to be followed when customising Revision Table, Weight Table on Drawing and Text List on Drawing. If you have any issue with customising your own **Table Template** then please get in touch with <u>CADS Support</u> to request one.





7 Configuration Centre

As the name implies, the **Configuration Centre** controls all the configuration requirements in **RebarCAD**. The feature is divided into sub section for better management of relevant data. There are more than 500 configuration options, details of some of the important configuration options are given below.



7.1 Bar Configuration

Configurations related to bars representation, bar marking, match bar etc are stored here. You can update the configurations based on your requirement





RebarCAD - Bar Configuration			×
Drawing		Miscellaneous	
Reinf. Bar Layer	REBARS	Bend Type <u>W</u> indow	On 🔻
Centre Line Colour	cyan	Display <u>S</u> ET Warnings	Yes 🔻
Profile Line Colour	white	New View DLG Appears	Always 🔻
Bar Section Layer	0-70	Rounding/Match Bars	3
<u>P</u> line Width = Diameter	No 🔻	Bar <u>M</u> arking	
Draw Over Sized Ends	No 🔻	Special Bars	
Over Sized Ends <u>F</u> actor	0.3	Tolerance Rules	
Oversized Bars Ends Proportional to Bar Size	No 👻	Advanced	
		OverStockLength	
ОК	Cancel	Help	

7.1.1 General

You can change the bar layer, colour etc using this section from the **Drawing** sub group. You may choose to either draw bar in profile mode or in centre mode and if required in different colours too.

Centreline mode	
Profile mode	

The profile mode is always drawn proportional to the bar diameter and the centreline mode is drawn with zero line width irrespective of the bar diameter.

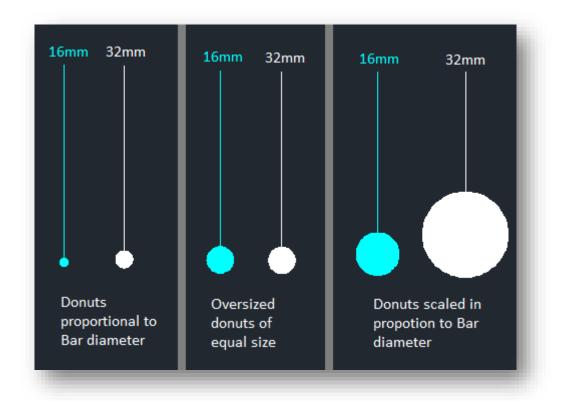
You may also draw bars as solid lines with thickness proportional to the bar diameter by setting **Pline Width = Diameter** as **Yes**.





16 mm			- 1
32 mm			
	 	 	_

How to display the bar donuts can also be configured from here from **Oversized end** options here.



The **Miscellaneous** sub group is used to default how to invoke dialogs, but is recommended not to change the same as the configurations mentioned here aid in error checking.

7.1.2 Rounding/Match Bars

This is a very important configuration option in relation to bar fabrication as you can specify whether you want to round up or round down the bar lengths. You may specify the rounding for both individual bar lengths and the total bar lengths. Note that the rounded data as configured here is sent to Bar Schedule and there is no other option in Bar Schedule for





rounding the data. The rounding should not be confused with precision data available with <u>Configure Schedule Settings</u>.

RebarCAD - Rounding/Match Bars Config	g - X-
Rounding	
Bent <u>R</u> ounding Direction	Nearest 👻
Bent Rounding Value	5.00
Straight Rounding Direction	Up 👻
Straight Rounding Value	25.00
Bent Length Rounding Direction	Up 💌
Bent Length Rounding Value	25.00
Straight Length Rounding Direction	Up 💌
Straight Length Rounding Value	25.00
Match Bars	
Straight Length <u>T</u> olerance	0.0
Select/Show Bars Length Tolerance	1.0
OK Cancel	Help

You can also specify length tolerance which should be used for matching identical bars. All the values given here are in millimeters.

7.1.3 Bar Marking

You can specify the Bar Mark format for the below dialog.





RebarCAD - Bar Marking Configuration	×				
<u>T</u> apered Start Suffix (letter/number) Mark E <u>x</u> clude Chars Bar <u>M</u> ark Prefix Number of Mark <u>Z</u> eros <u>N</u> umber of Tapered Mark Zeros	a				
<u>O</u> ld Style Marking	Yes 🔻				
Bent Bar Mark Format					
Tapered Bent Bar Mark Format					
Straight Bar Mark <u>F</u> ormat					
Straight Tapered Bar Mark Format					
OK Cancel <u>H</u>	lelp				

You can configure your drawing to use predefined prefix from the **Bar Mark Prefix** option here and similarly suffix to be used for Tapered ranges with varying length bars. **The Number of Mark Zeros** is used to specify the leading zeros if any you would like to have have for the bar marks, for example if the value is 3 then the first Bar Mark will be 001.

The Bar Mark format can be defined for bent and straight bars separately. The same applied for Tapered bars.





RebarCAD - Text Formatting - Edit	
SPREFXSBMARK	
\$MULTI - Label Multiplier.	SCENTR - Centres.
\$NOBAR - Number of bars.	SCCALT - Alt sized Centres.
\$BTYPE - Bar Grade	\$NOTES - Label notes.
\$BTPID - Bar Grade ID	\$SHPCD - Bend Type
\$BDIAM - Bar size.	\$SHP99 - Code >= 99 show 99.
\$BDALT - Equivilent Bar size.	\$CIRCS - Start point of circle.
SPREFX - Bar mark prefix.	\$CIRCE - End point of circle.
\$BMARK - Bar mark.	\$LNGTH - Length of bar.
\$SUFX1 - First Tapered suffix.	\$LNALT - Alt length of bar.
\$SUFX2 - Second Tapered suffix.	\$TBLCK - Block linked to bar type and size.
tilda - Link to keyword.	\$BLOCK(??) - Insert block name.
	Dim Sketch - Insert dimension sketch.
ОК	Cancel

The variables could be specified by keywords preceded by **\$**. The Keywords are applied as soon as you click on the button. You may also include static text if you so desire. Avoid special characters such as *, + as they might conflict with normal numbering system. You may also include AutoCAD Blocks if you so desire. AutoCAD Blocks and Label Sketch do not work with AutoCAD leaders.

7.1.4 Special Bars

You may choose to either save the special bars in a separate file or with the drawing (<u>Refer</u> <u>Section 2.4</u>). Also you can apply various default options when you create a new special bar.





RebarCAD - Special Bar Configuration	×
Special Bar File	
Use <u>S</u> pecial Bar File	No 💌
Special Bar <u>F</u> ile and Path	specials.spl
Read Special's from Drawing	Yes 🔹
Read Over Existing Special's	No 🔻
Use Special Bar Display Shape	No 🔻
Special Bar Display Shape	99
Calculations	
Default Description Code	
{Description = "Special Bar";}	
Default <u>S</u> lide Code	
{Slide = "special.sld";}	
Default <u>V</u> arSetup Code	
{NoBarMarkPrompt = 0;SpecialBar = 1;}	
Default <u>S</u> cheduleData Code	
{Category = "Bent";}	
Default Length Calculation	
{length=A+B+C+D+E+F+G;}	
Default Rounding Calculation	
{StdRounding(0);lengthRounded=ARounde	d+BRounded+CRou
OK Cancel	Help

7.1.5 Tolerance rule

You can specify tolerance rules from here. The default for bent bars and links are 5 mm up to bar length of 1000 mm, 10 mm for bar length of 1001 to 2000 mm and 25 mm for bar lengths more than 2001 mm or straight bars.





RebarCAD - Enter Tolerance Rules				
Maximum of 50 characters in a line.				
{if (Category=="Link" Category=="Bent"){if (cur				
dim<=750.0)tolerance=5.0;else{if(curdim>750.0 && c				
urdim<=1500.0)tolerance=10.0;else{if(curdim>1500.0				
&& curdim<=2500.0)tolerance=15.0;else{tolerance=2				
5.0;}}}else{if (Category=="Straight")t				
OK Cancel <u>H</u> elp				

7.1.6 Advanced

There are some advance configurations related to Bars are stored here. Many are related to default behavior of the system when you opt to draw a tapered range, stretch bars, change bar diameters etc. It is recommended to keep the default settings as it aid error checking





RebarCAD - Advanced Bar Configuration	×			
Miscellaneous				
Diameter Change Check	Yes 🔻			
Blips when doing Tapered Ranges	Yes 🔻			
Use <u>F</u> ast BBD	Yes 🔻			
<u>R</u> adius Dimensions to outer	No 🔻			
Stretching				
Stretch Changes Mark	Ask 🔹			
Stretch Asks For <u>M</u> ark	No 🔻			
Stretch to Stock Defaults				
Bar Lengths				
Maximum Length <u>W</u> arning	Ask 🔻			
Always Display Length in Inches	No 🔻			
Zero Length Inches Text	-0''			
Exclude Bar Shapes				
Shape list sorting				
Sort alphanumerically	No 🔻			
Group by prefix letter				
OK Cancel	Help			

7.1.7 Over Stock Length

You may set the **Stock Length** of the bars here. **RebarCAD** automatically lap the bars when the bar length exceeds the **Stock Length** specified here. You may choose to specify the **Lap Length** for each bar diameters. You can specify how you wish to label the bars along with the default Label notes when bars exceed the stock length.

Generally the bars supplied at site are of slightly different lengths. You may specify some **Over Length** such that the last bar is not trimmed for small increases beyond stock length. These bars are handled at site by using the larger of the stock bars.

The distance between two bars when lapped together is given in **Bar Offset** field.





RebarCAD - Over Stock Length Configuration				
Stock Length 12000.00	Lap Length 500.00			
🔲 Enable Lap Length For Each Ba	r Size Specify Lap Length Values			
Display Method Labelling Option				
Label Placing	Bar Notes			
None On bar distance 20.00	Int. Label And			
Place Manually	Last Label Continuous 👻			
Range Line for all bars	🔲 Display Leader			
Last Bar Option Run Out Over Length 1500.00 Bar Offset 2.00				
OK Can	cel Help			

7.2 Label Configuration

The **Label Configuration** dialog contains the configuration settings for all type of annotations used in **RebarCAD**, namely, **Bar Label**, **Bar Reference** and **Ticks and Tags**. This section also deals with **Leaders**.

RebarCAD - Label Configuration			— ×	
Bar Label Configuration		Bar Ref. Configuration		
Bar Label Layer	BAR-LBL	Bar <u>R</u> ef Text Layer	0-25TEXT	
Bar Label Text <u>S</u> tyle	romans	Bar Ref Text <u>Style</u>	romans	
Bar Label <u>W</u> idth Factor	1.0	Bar Ref <u>W</u> idth Factor	1.0	
Bar Label <u>H</u> eight	3.0	Bar Ref Height	2.5	
Label <u>Q</u> uestion Default	No 👻		2.0	
Notes File	rc_lab.def	B <u>a</u> r Ref Formatting		
Ticks and Tags Leaders Bent Label Format Straight Label Format Tagered Label Format AutoCAD Dimension Label/Leader Configuration Straight Configuration Straight Configuration				
Draw Dimension Label/Leaders ? Off Retain Leader Shape ? Yes Group label and notes as a single multiline text entity ? Yes				
OK Cancel <u>H</u> elp				





7.2.1 Bar Labels

You can configure layers in which you would like the bar labels to be drawn along with the bar label text properties. As explained in section 2.4, the Notes are specified in a separate file and can be configured here.

The **Bar Label** format should be defined separately for Straight and Bend bars. **Bar Label** format is also required to be specified separately for Tapered bars.

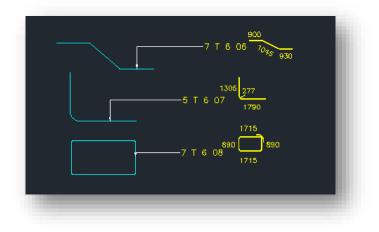
The Bar Label format is driven by keywords and you can specify the same in dialogs provided for the same

RebarCAD - Text Formatting - Edit	
\$BMARK	
\$MULTI - Label Multiplier.	\$CENTR - Centres.
\$NOBAR - Number of bars.	SCCALT - Alt sized Centres.
\$BTYPE - Bar Grade	\$NOTES - Label notes.
\$BTPID - Bar Grade ID	\$SHPCD - Bend Type
\$BDIAM - Bar size.	\$SHP99 - Code >= 99 show 99.
\$BDALT - Equivilent Bar size.	SCIRCS - Start point of circle.
SPREFX - Bar mark prefix.	\$CIRCE - End point of circle.
\$BMARK - Bar mark.	\$LNGTH - Length of bar.
\$SUFX1 - First Tapered suffix.	\$LNALT - Alt length of bar.
\$SUFX2 - Second Tapered suffix.	\$TBLCK - Block linked to bar type and size.
	\$BLOCK(??) - Insert block name.
tilda - Link to keyword.	\$BLOCK(??) - Insert block name.
	Dim Sketch - Insert dimension sketch.
ОК	Cancel <u>H</u> elp

You may include static text such as **c/c**, **X**, etc. You may include AutoCAD blocks – for example to encircle the bar mark. **Label sketches** are also possible provided the relevant AutoCAD blocks are provide as described in <u>Section 2.4</u>.







Multiline Bar Label is also possible from Global/Central Configuration

Configuration Centre->Global/General Configuration->Label->LabelFormatExtraNotes1 Configuration Centre->Global/General Configuration->Label->LabelFormatExtraNotes2 Configuration Centre->Global/General Configuration->Label->LabelFormatExtraNotes3 Configuration Centre->Global/General Configuration->Label->LabelFormatExtraNotes4



You may also configure to place AutoCAD Blocks automatically when the Bar Label is placed or choose to place it manually after placing the Bar Label, which is useful when you have congested drawings or multiline labels. This setting is controlled by <u>Global/Central</u> <u>Configuration</u>

Configuration Centre->Global/General Configuration->Label->PlaceLableBlockManually

There are two additional configurations, **LabelBlockXoffset** & **LabelBlockYOffset**, to control the position of the Label Block when automatic placement of Label Block is in use.

AutoCAD Blocks in Bar Label and Label Sketches are supported for AutoCAD Dimensioned Leaders.

7.2.2 Bar reference

You can format Bar Reference layer, text properties etc. from here.





Bar Ref. Configuration	
Bar <u>R</u> ef Text Layer	0-25TEXT
Bar Ref Text <u>Style</u>	romans
Bar Ref <u>W</u> idth Factor	1.0
Bar Ref <u>H</u> eight	2.5
Bar Ref Formatting	

Also the Bar Reference could be formatted from the Bar Ref Formatting option.

RebarCAD - Text Formatting - Edit	
SBMARK	
SMULTI - Label Multiplier.	SCENTR - Centres.
\$NOBAR - Number of bars.	\$CCALT - Alt sized Centres.
\$BTYPE - Bar Grade	\$NOTES - Label notes.
\$BTPID - Bar Grade ID	\$SHPCD - Bend Type
\$BDIAM - Bar size.	\$SHP99 - Code >= 99 show 99.
\$BDALT - Equivilent Bar size.	\$CIRCS - Start point of circle.
\$PREFX - Bar mark prefix.	\$CIRCE - End point of circle.
\$BMARK - Bar mark.	\$LNGTH - Length of bar.
\$SUFX1 - First Tapered suffix.	\$LNALT - Alt length of bar.
\$SUFX2 - Second Tapered suffix.	STBLCK - Block linked to bar type and size.
	SBLOCK(??) - Insert block name.
tilda - Link to keyword.	
	Dim Sketch - Insert dimension sketch.
ОК	Cancel <u>H</u> elp

7.2.3 Tick & tag configuration

The Tick & Tag Configuration dialog can be invoked from Ticks and Tags.. button.





RebarCAD - Tick ar	nd Tag Configuratio	n		—
		A	uto Ticks and Tags	Off •
<u>+</u>		<u>+</u> 01-	01_ Layer	
5.0	0.6	2.0	Tag Layer	0-25TEXT
			Layer	
14.0	2.0	1.4	Tick Layer	REBARS
			<u>ai</u> Layer	
12.0	6.0	1.4	Text Layer	0-25TEXT
Tick and Tag Text S	<u>è</u> tyle romans	Tick and	Tag Text <u>W</u> idth Factor	1.0
Click on slide to show	w text description.		Тад	Text <u>F</u> ormat
	ОК	Cancel	Help	

In the **Tag, Tick, Text Layer** tabs, you can enter the layers in the respective fields, as per your need. Alternatively, you can call in a standard list to select the required layers. The location of **Ticks and Tags** respective to the bar can also be configured from here using different options provided.

You can choose to automatically **Ticks and Tags** all bars when drawing the bar using the option **Auto Ticks and Tags** to **Yes**.

7.2.4 Leaders

There are two types of **Leaders** supported by **RebarCAD**. The default one is called **RebarCAD** Leaders where the leader is created by **RebarCAD** using other AutoCAD entities.

RebarCAD also uses **AutoCAD Leaders** and draws leader as defined in current AutoCAD **DIMSTYLE**. **AutoCAD Leaders** can be enabled by setting the option **Draw Dimension Label/ Leader** to **Yes**.

You can configure up to three types of **Leaders** for a drawing in **RebarCAD**, a particular type of leader can be drawn from the following option in **RebarCAD** ->**Annotation** panel.





Image: Second				
Anr Leader Option 1				
Link a previously drawn bar and label with an arrowhead style leader				
Press F1 for more help				

These leader options can be configured from Leaders.. button in the Label Configuration dialog.

RebarCAD - Leader Configurati	on		— ×
Leader 1 Configuration		Leader 2 Configuration	
Leader Arrow <u>F</u> ile	leadrblk.dwg	Leader Arrow <u>F</u> ile	leadrdot.dwg
Bar <u>L</u> eader Layer	0-25TEXT	Bar <u>L</u> eader Layer	0-25TEXT
Leader <u>M</u> ode	Undemeath 💌	Leader Mode	Undemeath 💌
Leader Arrow Length	2.0	Leader Arrow Length	1.0
Leader Arrow <u>W</u> idth	0.6	Leader Arrow <u>W</u> idth	1.0
Leader 3 Configuration			
Leader Arrow File	leadcirc.dwg	<u>A</u> uto Leader Bars	Yes 🔻
Bar <u>L</u> eader Layer	0-25TEXT	Leader Style for Ranges	Leader 1 💌
Leader Mode	Underneath 🔹	Leader Snap Setting	
Leader <u>A</u> rrow Length	1.0		
Leader Arrow <u>W</u> idth	1.0		
	ОК Са	ancel <u>H</u> elp	

You can configure the three types of leader differently over here. Based on the options provided here **RebarCAD** creates appropriate AutoCAD **DIMSTYLES** when the **AutoCAD Leader** option is switched on.





You may also default Leader snap settings, default Leader to be used for Ranges etc from here.

7.3 Configure Schedule Settings

You can configure your Bar Schedule and related functionalities from here. Each section is described in details below.

7.3.1 General

The **Detailing** options helps you control the Members and Releases dialog display when drawing the first bar. The **Electronic schedule data file** helps you configure **RebarCAD** to automatically generate a data file. You can configure to save **RebarCAD** bar data into a particular format and save it to a folder location. This option is generally used by many customers to push data from drawing into their enterprise database.

The **Management** option is similar to the previous option.

Please Note: Here, PDF refers to Project Data File, *not* the Adobe format.





📚 RebarCAD - Configure Settings	×				
Configure Settings					
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.					
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate					
Detailing ✓ Display 'Members' dialog on drawing the first bar □ Display 'Releases' dialog on drawing the first bar					
Electronic schedule data file Output electronic schedule data file on 'Save'					
Electronic schedule file format CADS-RC Standard File Output (.CSF)					
Electronic schedule file location SteelPAC File Output (.SDI) Pinnade File Output (.PIN)					
O Drawing file folder O Fixed location Ariadis File Output (.SDI) CADS-RC Standard File Output (.CSF) Harris File Output (.TSV) Schnell File Output (.TXT)					
Management					
Management system None					
Management system file (PDF) location :					
⊙ Drawing file folder					
O Fixed location					
Save Apply 🔀 Close 🦃 Help	,				





7.3.2 Schedule

ኛ RebarCAD - Configure Settings 🥂					
Configure Settings					
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.					
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate					
Schedule type Fixed Length Number of lines per page 10					
Schedule on drawing display options					
Display schedule Drawing Sheet Place weight summary table All					
Shape table type Prompt while placing 💌 🗆 Place shape diagrams table					
Schedule on drawing and printed report data options					
✓ Include standard straight bars ✓ Include coupled straight bars					
✓ Include tapered range straight bars Advanced options					
✓ Show dimensioned bar shape sketches Preset schedule format					
✓ Display leg dimensions for straight bars					
✓ Display bar mark for straight bars					
Template details					
Template file name C:\ProgramData\CADS\autocad 2					
Revision table template Default					
Schedule table on drawing template CADS STANDARD					
Weight table on drawing template Default					
Text list on drawing template Default					
Save Apply 🗙 Close 🦃 Help					

Schedule Type/Number of Lines Per Page – You can configure RebarCAD to use a fixed number of lines per page. Should you change the number of lines per page then you will need to update/define some accompanying report formats (*.repx) to match. The variable length option allows for more control on page placement whilst placing a schedule on drawing.

Display Schedule by – You can configure the schedule on drawing to be displayed on either a **Drawing Sheet**, **Member** or **Release** basis. You will need to ensure that appropriate template is selected for **Schedule Table on Drawing Template**.

Place Weight Summary Table/Place Shape Diagrams Tables – You can configure whether to automatically add additional **Weight summary table** or **Shape diagram tables** as part of process of placing a **Schedule on Drawing**. The additional **Shape table type** option controls the layout of the additional shape diagram table.

Schedule on Drawing and Print Report Data Options – These options allows for the inclusion/exclusion of specific data from all reports. You can also configure when you want **RebarCAD** to combines bars as shown below:





😤 RebarCAD - Combine Bars				
Combine Bars				
Specify when and how you would like the bar marks to be combined in schedule and reports.				
Combine Bars				
O Always				
⊙When				
Placing schedule on drawing				
Printing schedule reports				
✓ Issuing the schedule				
✓ Ordering materials				
Creating electronic schedule transfer file				
Schedule on Drawing and Printed Report Option				
Combine bar marks across different assignments (e.g, Member, Drawing sheet, Release, BidItem, BidStructure and BillingCode)				
🗸 OK 🗙 Cancel 🔇 Help				

Selecting *Always* will result in bars being combined immediately following creation, although the continuous combining of the schedule may have implications for the performance (speed) of the software. If you would rather control exactly when the schedule is combined then you should disable all the. *When* options and instead use either the **Combine Bars** command or option within the **Format Bar List** dialog.

You may also also choose to combine bars across **Drawing Sheet**, **Release**, **Member**, **Bid Item** or **Bid Structure**. The bars will be combined only when you place **Schedule on Drawing** or print **Reports**.

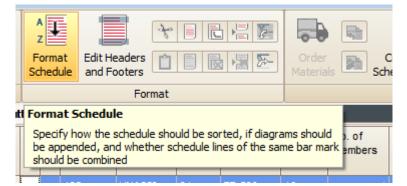
Additional options are available via the **Advanced Options** button where you can specify how the **Tapered Ranges** should be displayed in **Bar Schedule**.





RebarCAD - Advanced Options	
Advanced Options You can specify advanced display o on drawing and printed report data.	options for schedule
Advanced display options Display run-out dimensions Show only first and last bar	of tapered range
Abbreviation text	Varies To
Abbreviation text position	Between First and Last Tapered Rang 💌
	✓ OK X Cancel QK Help

Preset Schedule Formats – This dialog allows you to define your default **Bar Schedule** formatting options. These options are applied only to new drawings. If you wish to change the format settings of an existing drawing you will have to use the option Format Schedule available in **Bar Schedule** ribbon.



Template Details – You may select the **Table Template** file and define **Schedule on Drawing**, **Revision Table**, **Weight Table** and **Text List** format, please refer <u>Section 6</u> for more details on how to create a **Table Template** and define table formats.





7.3.3 Issuing & Revision

📚 RebarCAD - Configure Settings						
Configure Settings						
Choose your preferred product setting schedule format, units formatting, pro printed reports. These settings can b several computers to maintain consist	duction system settings, and e saved in a configuration file	the design and contents of your				
General Schedule Issuing & Rev	ision Localisation Release	& Ordering Reports Estimate				
Issue type	Revision level	Revision mark				
Draft	First Issue					
For Approval	Revision 1	A				
Tender	Revision 2	B				
Contract	Revision 3	C				
Specify revision levels for						
Schedule revision system Custom schedule revision system						
Show revision marks	On issued pages only					
Show revision history	Show all revision marks	▼				
Schedule header revision mark	Schedule header revision mark Show highest revision mark on schedule page					
Lock issued pages Lock issued lines Always issue schedule with drawing						
Track changes option	Track changes option					
Callout symbol	Callout symbol c:\program files\cads\autocad 2012\cads rc ii					
Schedule strike-out format Strikeout Font Revision cloud offset 0.5						
	Save	pply 🗙 Close 🦃 Help				

Issue Type – List all the issue types that should be offered when issuing a drawing sheet. Click on the * row to add additional entries. You may also edit the default ones provided by **RebarCAD**.

Revision Level – Define the revision marks that should be offered when issuing a schedule or drawing sheet. **Auto-Generate** button will automatically generate all the **Revision Levels** if you specify the first revision level i.e. **Revision 1**.

Schedule Revision System – You may either opt for the BS 4466 / BS 8666:2005 standards or may specify your own. Once you select *BS 4466 / 8666*, the Custom schedule revision system settings are disabled. You may enable them by selecting *Custom*.

Show Revision Marks – This option determines whether bars being added to new pages following an issue, should receive a revision mark.

Show Revision History – This option determines whether all revision marks are shown in the schedule, or whether only the changes in the current revision are displayed.





Schedule Header Revision Mark – The option determines which revision mark is displayed in the header of each schedule page

Lock Issued Pages – This option determines whether issued schedules pages are locked so that they can't be formatted and new bars can't be added. e.g. set this option to lock issued pages and new bars will be add to a new page following an issue. Set this to lock issued lines and new bars will be appended to the issued schedule page.

Always Issue Schedule with Drawing – If this option is selected then the corresponding Schedule Sheet is always issued when a Drawing is issued.

Callout Symbol – Specify the AutoCAD block that should be used to contain the revision mark on the drawing.

Schedule Strike-out Format - Specify your preferred way of denoting a stuck out line. The strike out is applicable for **Schedule on Drawing** and **Reports**. The bar schedule view might not show the option as selected here.

7.3.4	Localisation

		Localisation	Release & Ordering	Reports	Estimate
Unit options					
Bar size	Metric		•		
Dimension	Metric		▼		
Weight	Metric		•		
Advanced unit options					
Leasth	Units		Precision		
Length	mm	•	0		
Total length	mm	-	0		
Weight	kgs	-	3		
Total weight	tonnes	•	3		
Dimension display optior	ns for 'Imperial' u	nits			
Use Fraction S	Symbols (e.g.	¼, ½, and ¾ i	instead of 1/4, 1/2, an	d 3/4)	





The **Localisation Settings** dialog offers various settings that control the units and unit precision to be used for **Bar Schedule**.

7.3.5 Release and Ordering

📚 RebarCAD - Configure Settings		×
Configure Settings		
schedule format, units formatting, produc	including your revision management preferences, preferred ction system settings, and the design and contents of your aved in a configuration file which can be shared between it standards.	J
General Schedule Issuing & Revisio	n Localisation Release & Ordering Reports Estimate	
Fabrication / Production output		
Enable releases feature		
Production output system	Soulé File Output (.SLE)	
	Configure format	
Production output path	C:\Users\kaarthickb\Documents\CADS\Product	
Synchronize release status with	n file	
Release status file	C:\ProgramData\CADS\autocad 2012\cads rc	
Generate release register file		
Release register file path	C:\ProgramData\CADS\autocad 2012\cads rc	
Stock Bar Optimizer		
Offcut file name	C:\ProgramData\CADS\autocad 2012\cads rc in	
	Save Apply 🗙 Close 🖓 He	lp

You may use this dialog to specify your default **Production output system** for **Ordering** materials. There are advance settings available which automatically reads **Release status** (fabricated or not) from an external file.

You can also specify the name and location of the **Offcut file** which is used in **Stock Bar Optimisation** and display of Offcut list during detailing.





7.3.6 Report settings

📚 RebarCAD - Configure Settings 🛛 💽
Configure Settings
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate
Bar schedule report format
Template Default (Dimensioned Sketches) Customise
Weight report format Template Weight Report by All Scheduled Bars Customise
Weight summary format Template Weight Summary by Type/Size
Save Apply 🗙 Close 🦃 Help

Report Settings allow you to specify the format of your printed reports. There are three report sections – each related to the three options offered under the **Print** and **Print Preview** commands, as shown below. Please refer to <u>Section 5</u> on how to customise **Report Templates**.





🐔 RebarC	AD - Schedul	le					
			POF \$	Line .	A z		
Print v	Print Preview ~	Excel Export ~	PD Expo	-	Forma Schedu		Edit Heade and Footer
Bar Schedule Report						Fo	
👼 Wei	ght Report		~	For	natted	F	Free-form
	what Commence	Denert					Member
👦 Wei	ght Summary	кероп					member
	wing1.dwg	кероп					member
🚽 🚺 Dra	- ·	Report					
👻 🚺 Dra	wing1.dwg	Report		▶1		÷	123
👻 🚺 Dra	wing1.dwg UNASSIGNED	Report		▶1 2		li li	

You can control the presentation of diagrams within reports using the **Configuration Centre** > **Miscellaneous Configuration > Shape Diagram Configuration dialog box.**

It may be necessary to experiment a little with the settings before arriving at diagrams that best match with your quality and presentation requirements.

R	ebarCAD - Bend Type Dia	gram Configurati	on 🏼 💌		
	Generate bend type diagra drawings	ms from Yes	•		
	Font name	Romans	•		
	Text scale factor	2			
	Text weight (Thickness)	700			
	Diagram line thickness	10			
	Regenerate bend type diagrams				





7.3.7 Estimate

📚 RebarCAD - Configure Settings 🥢 📈
Configure Settings
Choose your preferred product settings including your revision management preferences, preferred schedule format, units formatting, production system settings, and the design and contents of your printed reports. These settings can be saved in a configuration file which can be shared between several computers to maintain consistent standards.
General Schedule Issuing & Revision Localisation Release & Ordering Reports Estimate
Bid Item
✓ Enable bid item feature
Insist on bid item assignment
Import bid items from file on 'Open'
Bid item folder / filename C:\ProgramData\CADS\autoca
Report bar as incomplete in drawing audit if assigned to bid item with data status as Unavailable
Bid Structure
Enable bid structure feature
□ Insist on bid structure assignment
Import bid structures from file on 'Open'
Bid structure folder / filename C:\ProgramData\CADS\autoca
Report bar as incomplete in drawing audit if assigned to bid structure with data status as Unavailable
Save Apply 🔀 Close 🦃 Help

You can control **Bid Item** and **Bid Structure** settings from here. **Bid Item** and **Bid Structure** may be configured to be read from external file and made a mandatory field while drawing **Bars** and **Ranges**.





7.4 Range Configuration

The settings within the **Range configuration** help you to configure Range display in drawings.

RebarCAD - Range Configuration		- ×		
Indicator Line Layer RANGELAY End Marker Layer RANGELAY RC Dot Layer RANGELAY Range Text Layer RANGELAY Intermediate Layer RANGELAY Staggered Text stg. Altemate Text(1) alt.	Prompt for Range Offsets First bar offset Last bar offset Start of Range Snap Other Range Snaps Draw RC Dot Draw Range Text	Yes ▼ 0.0 0.0 0.0 0.0 Near ▼ Perp ▼ Yes ▼ Yes ▼		
Tapered Ranges Runs	New <u>Vi</u> ew DLG Appears for	Both		
OK Cancel Help				

You may also configure how you wish the **Draw Range** command to work. For example if you always draw ranges using cover lines, then you may set the Prompt for Range Offsets to No. You may also define default range offset if you are using it.

The **Range** snap settings can also be configured along with how you wish to display the **Range** indicator in the drawing. You can configure the AutoCAD blocks used in **Range** indicator display as indicated in <u>Section 2.4</u>.

The **Bar Runs** can be configured from the **Runs.** button, similar to options available for donuts (**Bar in section**) as explained in <u>Section 7.1</u>.

7.5 Coupler Configuration

The **Coupler Configuration** dialog contains configuration for the symbols and labels that are used to indicate coupled bars.





RebarCAD - Coupler Configuration		- ×		
Coupler Symbol Configuration				
Tension Block		tension.dwg		
Tension <u>L</u> ayer		COUPLAY		
Compression Block		compress.dwg		
Compression Layer		COUPLAY		
<u>T</u> hread Block		thread.dwg		
Thread <u>L</u> ayer		COUPLAY		
Coupler Text Format	Coupler Text Format Thread Text Format			
Coupler Data				
Synchronize coupler data with file				
Coupler_folder & filename	c:\program files\	cads\autocad 20		
Coupler Size Configuration				
Draw couplers to which size?		Symbol Size 🔻		
Symbolic coupler length	5.0			
Symbolic coupler width	2.0			
Coupler Schedule Config				
Coupler Label Config				
End treatment config				
OK Cancel <u>H</u> elp				

You can specify the AutoCAD blocks you would like to use for couplers & threads and define the AutoCAD layer too. **Coupler** and **Thread Labels** can be formatted through **Coupler Text Format..** and **Thread Text Format..** respectively. You can use up to 3 lines for **Coupler** and **Thread Label**, and each line can be configured from here. The Keywords can be used along with static text. **Coupler** and **Thread Label** properties can be configured from **Coupler Label Config..**





RebarCAD - Coupler Text Formatting - Edit	×
Line 1 Line 1 Line 2 Line 3	
\$MANUF - Manufacturer. \$NOTES - Label notes.	
\$CTYPE - Coupler Type. SBTYPE - Bar Grade	
\$REDCR - Reducer Text. \$SHPCD - Bend Type	
\$TODIA - Size Attached to. \$SHP99 - Code >= 99 show 99.	
\$FMDIA - Size Attch'd from \$BMARK - Bar mark.	
SENTRT - End Treatment SCATNO - Category number	
tilda - Link to keyword.	
OK Cancel <u>H</u> elp	

As described in <u>Section 2.4</u>, you can configure additional file from where the coupler data is to be retreived. This is generally usefull if you have couplers of different manufacturers to be used in a project. You can enable this option from **Synchronise couper data with file** and configure the file name and location. Please get in touch with <u>CADS Support</u> if you need the coupler file format.

Re	RebarCAD - End Treatment Configuration.			
	End Treatment	Description		
	Threaded			
	Saw cut			
	saw cut			
	Add Update Delete	OK Cancel Help		

You can specify a list of **End Treatment** for your project from the **End treatment config** button.





7.6 Miscellaneous Configuration

RebarCAD - Miscellaneous Configuration
Section Marker Configuration
More Miscellaneous Config
Schedule Layer Configuration
Shape Diagram Configuration
Generate files
Title Block Configuration
Write Prototype Settings
OK Cancel <u>H</u> elp

As the name suggests, this section holds a large number of miscellaneous configuration options.

The **Section Marker Configuration** controls the size and layers used for the **Section Markers** available from the tools & symbols option.

Shape Diagram Configuration controls the display of shape diagram on Bar Schedule. The dimensioned sketches are controlled by the AutoCAD blocks supplied, please refer <u>Section</u> <u>2.4</u>. You may configure RebarCAD to create a new Drawing Sheet whenever a Title Block is copied from Title Block Configuration..

Write Prototype Settings... is a very important configuration and it's purpose is outlined in <u>Section 2.3</u>.

7.7 Support files

The configuration support files used by **RebarCAD** are listed in <u>Section 2.4</u>. This dialog helps in configuring some of the commonly used **Support Files**.





RebarCAD - Support Files	×
Shape code definition (BDF) support files	
Primary bar definition file	IS2502.BDF
Secondary bar definition file	None
Tertiary bar definition file	None
Additional support files	
Dimensions list file	IS2502_DIMS.TXT
Bar types and sizes file	IS2502_TYPEM.TXT
Bar bending data (BBD) file	IS2502_BBDM.TXT
User interface support files	
Dialog control file	IS2502.DCL
Schedule support files	
Schedule configuration file	C:\ProgramData\CADS\au
Specialist options	
Ask user to confirm configuration on starting a new drawing?	No 🔻
OK Cancel H	elp

Dimensions List file., **Dialog Control file...** and **Specialist options** are still available due to legacy issues, you are recommended to keep them with their default settings.

7.7.1 BDF Files

RebarCAD - Support Files	X
Shape code definition (BDF) support files	
Primary bar definition file	IS2502.BDF
Secondary bar definition file	None
Tertiary bar definition file	None
Additional support files	
Dimensions list file	IS2502_DIMS.TXT
Bar types and sizes file	IS2502_TYPEM.TXT
Bar bending data (BBD) file	IS2502_BBDM.TXT

RebarCAD allows up to three **BDF** files to be configured. As mentioned in <u>Section 2.4</u>, the **BDF** files contain the shape definitions. Normally you need only one **BDF** file to list all the





shapes to be used in a project. Sometimes you have additional bar shape requirement and those can be updated to your project without changing your **Primary BDF** file through **Secondary** and **Tertiary BDF** files.

In case there is a **Bar Shape** with same name defined in more than one **BDF** file then the shape defined in **Tertiary BDF** file take higher priority than **Secondary BDF** file which in turn has higher priority than the **Primary BDF** file. Therefore in between a project you can overwrite your existing **Bar Shape** with new **Bar Shape** definition by using **Secondary** and **Tertiary BDF** file.

7.8 Global/General Configuration

The **Global / General Configuration** option allows access to all the configuration variables used by **RebarCAD**. To view individual configuration item values, you have to highlight the configuration item in the scrolling list; values can be changed by entering the required value in the input field. The edited values will be assigned only if the **Assign to CFG..** button is clicked and will be applied only to the current drawing.

The configuration settings exposed here is meant for expert users of **RebarCAD**, therefore do take caution when editing them. Please contact <u>CADS Support</u> whenever you are in doubt.





CADS Global Configuration Centre	×
BARS	•
SUFFIX RCBARLAY BARCENCOL BARPROCOL RCBARSECLAY SHAPEWIN READSC99FILE SC99LIBPATHANDNAME BARDESCFILEPATHANDNAME BARDESCFILEPATHANDNAME DIMSDATAFILEPATHANDNAME DIMSDATAFILEPATHANDNAME BARTYPESPATHANDNAME DISPLAYSETWARNING NEWVIEWDLG DISPLAYOLDSHAPES SC99SLIDEPATH DIAMCHANGECHECK USEPLINEWIDTH PLINEWIDTH PLINEWIDTHFACT DRAWBLIPS DRAWOVERSIZEDENDS OVERSIZEENDSFACT DRAWOVERSIZEDENDSPROPORTIONALTOSIZE INVAILDBARCOLOR	
BARS RCBARSECLAY	
REBARS	
Assign to CFG	
OK Cancel <u>H</u> elp	

The configuration settings available here may or may not be available in other configuration settings dialog as described in <u>Section 7</u>. For example, **RCBARSECLAY** under sub group **BARS** refer to **Bar Configuration -> Bar in Section Layer**, <u>Section 7.1</u>.





RebarCAD - Bar Configuration			23
Drawing		Miscellaneous	
Reinf. Bar Layer	REBARS	Bend Type Window	On 🔹
Centre Line Colour	cyan	Display SET Warnings	Yes 🔹
Profile Line Colour	white	New View DLG Appears	Always 👻
Bar Section Layer	Bar in Section	×]
Pline Width = Diameter	0 DIM CONSTRUC	▲ E	
Draw Over Sized Ends	0-25 0-35		
Over Sized Ends Factor	0-50 0-70		
Oversized Bars Ends Proportional to Bar Size	0-25TEXT	Cancel Help	
ОК	Cancel	Help	

The configuration settings available here are divided into sub groups as shown below

CADS Global Configuration Centre	×
RANGE	-
GROUPLAYERING	A 1
RCLIBRARY	
SECTIONMARKERS	
RCLEADER	
BARREFS	
RANGE	
MISCELLANEOUS	
ABOUTBOX	
LAYERALIASMANAGER	
MEMORYSAVERS	
COUPLERS	
COUPLERSCONFIG	
GRID	
MATCHBARS	
ROUNDING	
STOCKBARS	
OVERSTOCKLENGTH	
TOLERANCES	
OVERRIDINGBARRADII	E
PROJECTSETTINGS	
ACCESSORIESLISTCONFIG FESLABSETTINGS	
SUDE	
WMFCONFIGURATION	
TITLEBLOCKCONFIG	
IS2502_BBDM	
PROTECTION	
GENERATEFILES	
SCHEDULEONDRAWING	
ENDTREATMENTCONFIG	-

