



# **RGS REBAR**

## **ADVANCE TRAINING**



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# PREFACE

This material is intended to be a Advance Training Workbook for the users of RGS REBAR. The users are advised to workout the exercises given in this book, so that they can understand the advance features of the software very well. After completing this workbook, the user is expected to use RGS-REBAR and detail any project.

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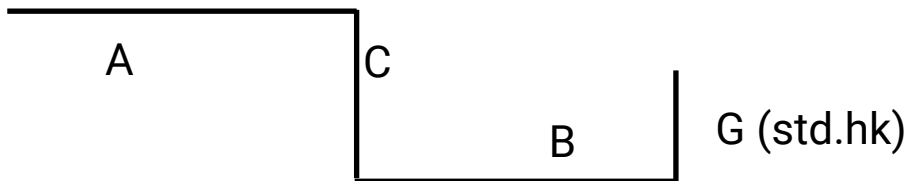
# Special Bend Tools

Concept: - This menu is used to edit the existing special bends. User can Export and Import the special

**Menu** : **Rebar Tools / special bend tools / special Bend editor**

**Exercise: -**

1.Edit the pictures as shown as below.



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# Create and Insert Details Library

Concept: - This is the library, which has got the Elements detailed and stored for each Detailing Code. Repeating Elements like Pile Cap, Column etc., can be detailed and stored in the Library and can be recalled and reused for any number of times.

**Menu** : **Rebar Tools / Details Library / Create Library**

**Command** : CRL

## **Exercise.1: -**

Create any object like Footing, Beam etc and follow the steps given below.

Let us assume creating a details library for a beam structure

1. Select the details library option in Rebar tools from the menu, now select the create library option.
2. Create a preferred template name as BEAM, template type as BEAMS and template id as B01.
3. Now click select objects from the bottom of the dialog box and window select the beam which you want to create detail library, Save the created library.
4. Select the insert library option from details library in Rebar tools from the menu
5. Insert the template from the following location  
C>Program files>RGS>RGS Rebar 4.0>Library>TIS (TIS detailing code)> Select the created template
6. select the assigned template type and Id.



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# CUSTOMIZATION TOOLS











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# Job Preferences

## 3.Bar mark: -

### Exercise-1: -

- a) Create a settings for Bar mark = A001
- i) Bar mark syntax – Bar no only selected from the available field
- ii) Assign bar marks for straight bars – selected

### Exercise-2 -

- a) Create a settings for Bar mark which shows the bar size, bend alias and Leg values.

iii) Retain bar mark is should not be selected for new drawing. This option can be selected and use it for the Revision works drawing.

- iv) Bend alias - Not applicable

- v) Barmark affecting factors :

#### 1.Bar size

#### 2.Bend type

#### 3.End preparations

#### 4.Leg values were selected from the available field.

(Alpha code and Element mark are not selected)

- vi) Starting number for bar mark – 001 and max.no of characters in barmark – 6.

vii) Bar marks settings for varying bars – Single bar mark for varying set with varying suffix option is selected.

Viii) Bar mark based on Element mark is not selected. No fixed bar marks are required.



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# Job Preferences

## 4.Callout :-

i)Callout format for Straight bars :-

1.Places = 6x2x16 # 6 23'9" @ 24" VEF (EP) LE : CP

2.x

3.Layer

4.x

5.Quantity

6.space

7.Bartype

8.barsize

9.space

10.Total Length

11.space

12.spacing

13.space

14.Remarks

15.space

16.coatings

17.spacerequired.

# Job Preferences

## Callout :-

18.End preparation

ii) Callout format for Bend bars:

1.Places = 6x2x16 # 6 6A004 @ 24" VEF (EP) LE : CP

2.x

3.Layer

4.x

5.Quantity

6.space

7.Bartype

8.barsize

9.space

10.Bar mark

11.space

12.spacing

13.space

14.Remarks

15.space

16.coatings

17.space

18.End preparation

ii)Format of ALT Bars spacing – Double spacing is selected.

iii)Auto clouds rebar objects for revisions are selected and Auto cloud for Revision greater than 0 is given.

iv)Revision border block is selected.

v)Callout positioning from insertion point – 2" given in X & Y direction.



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# Job Preferences

## 5.Labels: -

i) Straight bar Label format: -

1.Bar type = #6 23'9"@24" VERT (EP) LE : CP

2.Bar size

3.space

4.Total length

5.space

6.spacing

7.Remarks

8.coating

9.Space

10.End preparations

ii) Bend bar Label format: -

1.Bar type = #6 6A005 @ 24" VERT (EP) LE : CP

2.Bar size

3.space

4.Bar mark

5.space

6.spacing

7.Remarks

8.coating

9.Space

10.End preparations

ii) Label positioning from insertion point – 2" given in X & Y direction.

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# Job Preferences

## 6.CAD Standards: -

- i) RGS-Rebar Imperial A1 Sheet selected for Title block
  - ii) Rebar & View – Rebar layer for Rebar and Rebar – view layer for view
  - iii) Rebar – Range layer for Range, cover layer for cover lines
  - iv) Range blocks and revision blocks are selected.
  - v) Call out – Rebar-callout layer and text style – callout text
  - vi) Label – Rebar-label layer and text style – label text
  - vii) Element mark – element mark layer – element mark text
- All rebar entities are assigned with respective named layers and text styles.
- ix) BBS header Data, Header text, BBS Row Data & BBS Row text are assigned with same name layers and text styles.
  - ii) Label positioning from insertion point – 2” given in X & Y direction.

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# Job Preferences

## 7.Presentation Settings: -

i) Visibility factor for Model space:

Arrowheads, bar donuts, BBS Block, callout, custom text, Dimension text, Element mark, Elevation block, Label, Range block, Range Donut and Revision Block all are assigned = 48.

Detailing blocks – 1.

ii) Paper settings for Presentation

a) Range donut size = 0.084inch

b) Text height

BS Block = 0.084inch

Callout = 0.094inch

Element mark = 0.1inch

Label = 0.094inch

c) Bar Donuts

Bar donut for presentation = 0.04inch



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# Job Preferences

## 8.Others: -

- a) Takeoff format file – PLF
- b) Truck details -
  - Truck width – 88 inches
  - Truck load - 40000lbs
- c) Length Details -
  - Stock length – 480 inches
  - Shipping length - 540inches
  - Mill length - 720inches
- d) Allow hook value other than standard value is not selected.
- e) Maximum detailing length – stock length
- f) Maximum length validation based on – Theoretical length
- g) Takeoff total length based on -Theoretical length
- h) Length Display format = FT'-IN"
- i) Leg value rounding factor for straight bar = 1" and Bend bar = 0.5"
- j) Total Length rounding factor for straight bar = 1" and Bend bar = 0.5"
- k) Length rounding method = nearest

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# Job Preferences

## Others: -

l) Coating abbreviations: -

a) Epoxy - (\*EP)

b) Galvanized - (\*GV)

c) Dipping - (\*DP)

h) Minimum Leg Value for respective Bar sizes: -

# 3 = 4 inches

# 4 = 4.5 inches

# 5 = 5.5 inches

# 6 = 7 inches

# 7 = 8 inches

# 8 = 10 inches

# 9 = 14 inches

# 10 = 16 inches

# 11 = 18 inches

#14 = 22 inches

#18 = 29 inches

All settings are finished and saved as a Job settings file.

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# CAD Standards

User can customize the range blocks, revision blocks and layer settings.

**Exercise: -**

Create a CAD standards file with new layer settings and colours as per customer requirement.

1. Create a new CAD Standards file with the following setting.

2. Range line end closed with Donut = 

3. Callout text style = Times new roman

4. Rebar colour = Magenta

# Redraw Entities

**Menu** : Rebar tools / Redraw entities

**Command** : RES

## **Exercise: -**

1. Change the rebar colour as Magenta in Job properties menu
2. Redraw the bars, colour of rebar will updated.
3. Change the CAD Standards file as described above and reload the file in Job Preferences screen.
4. Redraw the existing ranges.



Before Redraw - Range line



After Redraw - Range line

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# Rebar Spread

**Menu** : **Rebar tools / Auto Detailer / Rebar spread**

**Command** : RSP

**Exercise:** -

Create a slab structure and follow the given steps

1. Go to Rebar tools>Auto Detailer>Rebar spread
2. On the Rebar spread dialog box enter the required fields
3. Click on opening button and select opening covers
4. Click on conditional support buttons and select support positions
5. Select draw horizontal button, wait until the bars are drawn
6. Finally select draw vertical button and wait for it's completion