

GRAITEC Advance BIM Designers 2017 R2 SP1



The first service pack for **GRAITEC BIM Designers 2017 R2** offers solutions for the drawings of Reinforced Concrete modules in Standalone version.

IMPROVEMENTS

These solutions are globally applied for:

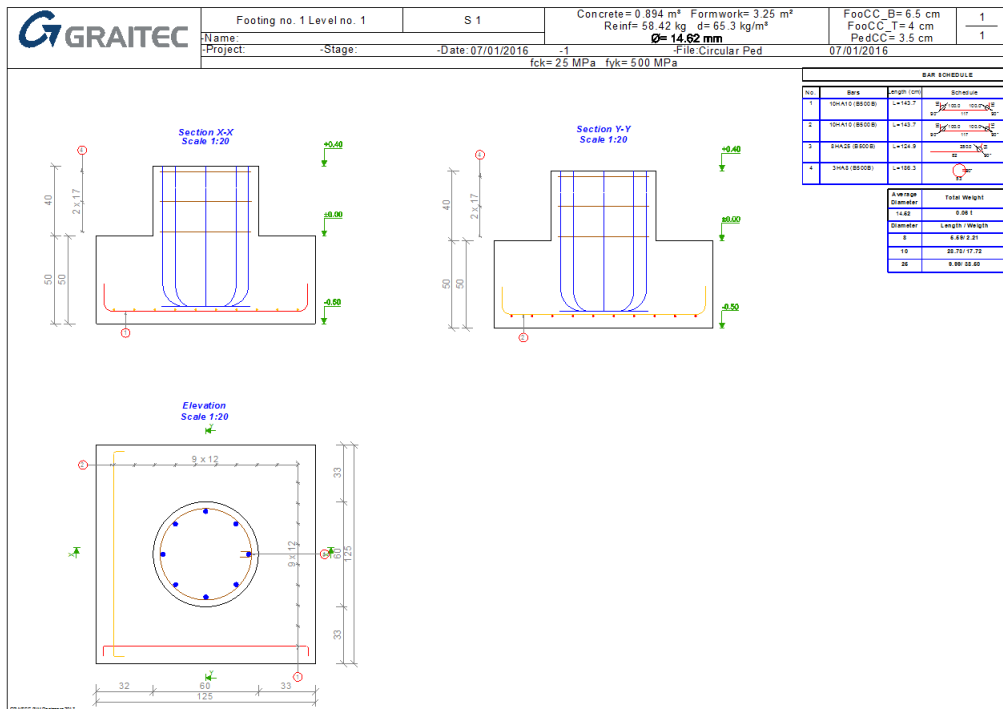
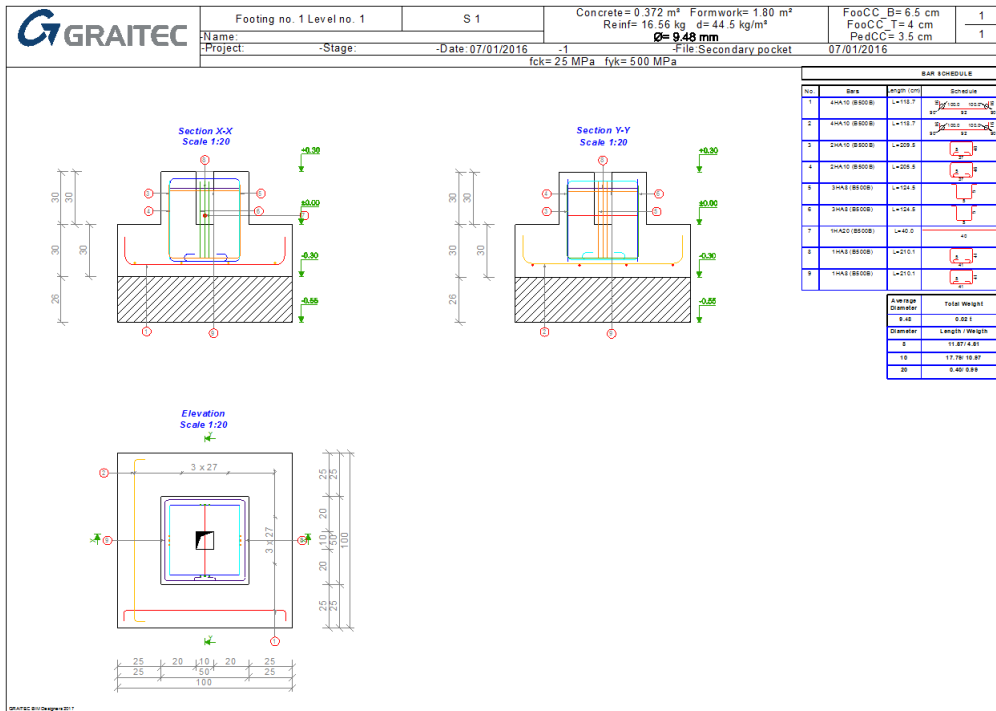
- Page layout: overall page layout has been improved;
- Auto scaling: better auto scaling of sections and elevations;
- Bending radius for reinforcement applied on footings and columns, in accordance with the assumptions set for design calculation (Eurocode 2 calculation).

CORRECTIONS

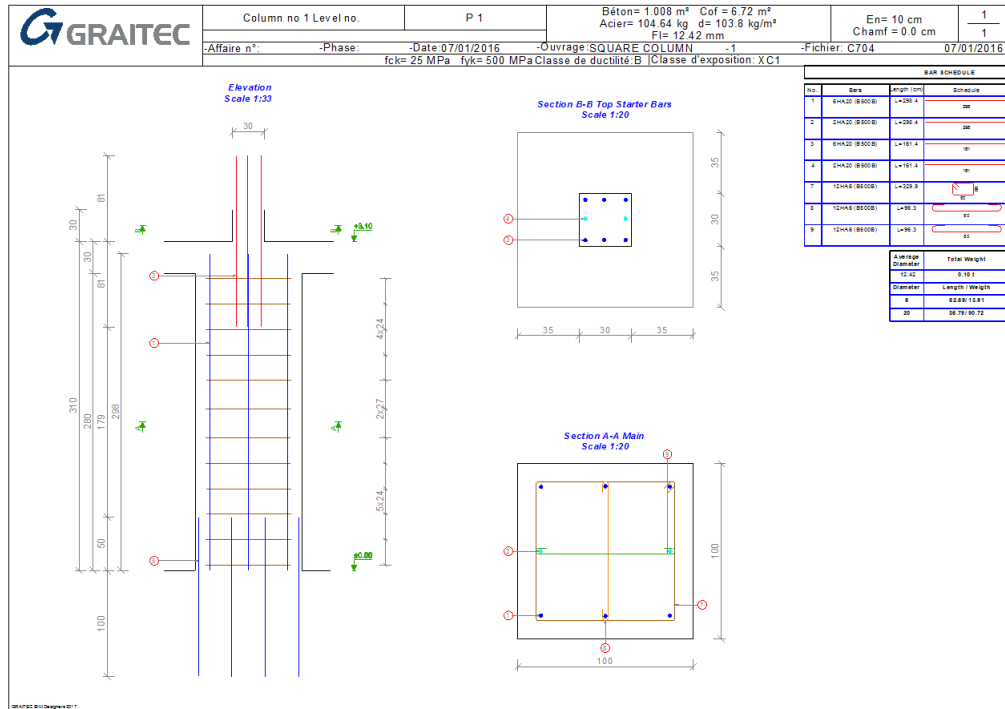
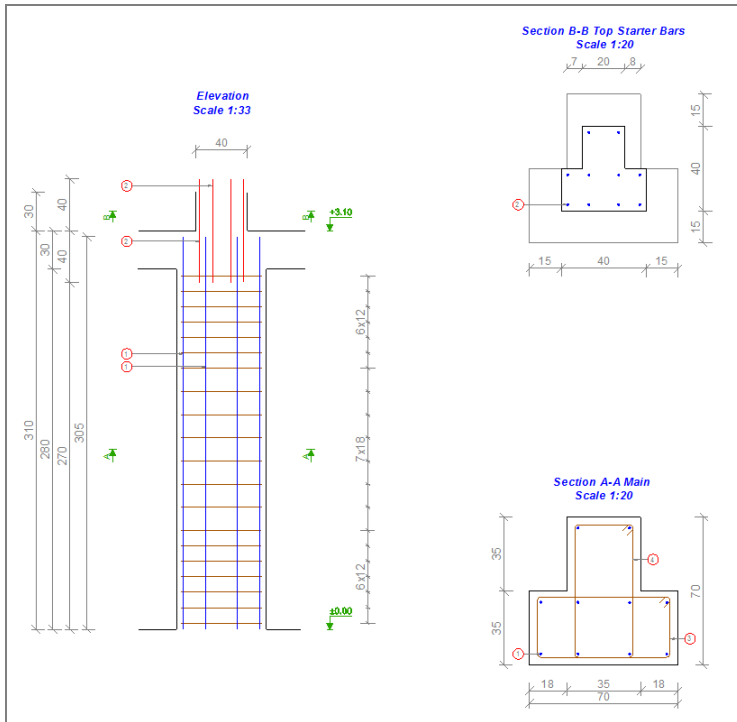
In GRAITEC BIM Designers 2017 R2 - SP1, several corrections have been made in connection with:

- Reinforcement distribution: correct bar placement in accordance with the design calculation results, design and reinforcement assumptions, for footings, columns and beams.
- Correct display of marks on drawings and in bar schedules;
- Title block information of quantities and specific ratios;
- Easy switch between beam spans using keyboard arrows;
- Bar schedule corrections for bar schemas, regarding annotations and bending radius;
- Better management of annotations on sections and elevations: titles display in accordance with the position of the section/elevation, the position of dimensions and section/elevation symbols, some bars tags were overlapping.
- Better management of overcrowded dimensions.
- In the RC Column designer, some bars with different diameters were displayed with the same line thickness.
- Some identical bars were tag with different numbers.
- In the RC Footing Designer, some bars tags were displayed without number.

Reinforced Concrete Footing Designer



Reinforced Concrete Column Designer



Reinforced Concrete Beam Designer

	Poutre n09 Niveau n01	POUTRE9.1 TO	Béton= 1.740 m ³ Cof= 9.16 m ³ Acier= 102.04 kg d= 58.6 kg/m ³ Fl= 8.00 mm	EB= 2.5 cm EH= 2.5 cm EL= 2.5 cm	1 1
	-Affaire n°: PH RDC	-Date: 07/01/2016	-Ouvrage: BEAM	-Fichier: 07/01/2016	1
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Classe d'exposition X C1					

Elevation
Scale 1:50

No	Bar	Length (cm)	Schedule
1	3HA2 (B500)	L=254.0	3x11
2	3HA2 (B500)	L=148.0	3x8
3	3HA2 (B500)	L=122.0	3x8
4	3HA2 (B500)	L=297.5	3x8
5	3HA12 (B500)	L=184.3	3x12
6	3HA11 (B500)	L=150.9	3x11
7	3HA2 (B500)	L=258.0	3x8
8	1HA8 (B500)	L=289.9	1x8
9	3HA1 (B500)	L=200.0	3x8
10	3HA2 (B500)	L=160.0	3x8
11	3HA12 (B500)	L=240.0	3x12
12	3HA11 (B500)	L=184.9	3x11
13	3HA2 (B500)	L=288.9	3x8
14	1HA8 (B500)	L=200.0	1x8

Average Diameter	Total Weight
8	8.10 t
12	16281.17 kg
8	8830.03 kg
12	4182.88 kg

Section A-A
Scale 1:20

Section B-B
Scale 1:20

	Beam no 1 Level no.	T 1.1 TOT 1.3	Concrete= 2.010 m ³ Formwork= 15.20 m ² Reinf= 124.42 kg d= 61.9 kg/m ³ Ø= 8.10 mm	Bot= 2.5 cm Top= 2.5 cm Lateral= 2.5 cm	1 1
	-Project:	-Stage:	-Date: 07/01/2016	-1	-File: 07/01/2016
fck= 25 MPa fyk= 500 MPa					

Elevation
Scale 1:50

No	Bar	Length (cm)	Schedule
1	4HA2 (B500)	L=119.1	4x11
2	4HA2 (B500)	L=112.4	4x8
3	2HA2 (B500)	L=107.9	2x8
4	4HA12 (B500)	L=224.4	4x12
5	1HA8 (B500)	L=122.0	1x8
6	3HA2 (B500)	L=249.9	3x8
7	3HA2 (B500)	L=221.7	3x8
8	4HA2 (B500)	L=172.0	4x8
9	4HA2 (B500)	L=224.4	4x8
10	2HA2 (B500)	L=188.2	2x8
11	4HA2 (B500)	L=202.0	4x8
12	4HA2 (B500)	L=172.0	4x8
13	2HA8 (B500)	L=209.9	2x8
14	2HA8 (B500)	L=211.7	2x8
15	4HA2 (B500)	L=112.4	4x8
16	4HA2 (B500)	L=110.1	4x8
17	2HA2 (B500)	L=106.8	2x8
18	4HA12 (B500)	L=224.4	4x12
19	1HA8 (B500)	L=122.0	1x8
20	3HA2 (B500)	L=249.9	3x8
21	3HA2 (B500)	L=221.7	3x8

Average Diameter	Total Weight
8	8.10 t
8	12229.27 kg
8	2682.78 kg
12	1848.12 kg

Section A-A
Scale 1:20

Section B-B
Scale 1:20

Section C-C
Scale 1:20