

Autodesk Robot Structural Analysis Professional 2011 - Project: 054.ANG.052 v1.0 11.06 (054.ANG.052 v1.0 11.06.17) - Level: - Results (FEM): available - Results: available

File Edit View RC Element Analysis Results Reinforcement Tools Add-Ins Window Help

RC Component Inspector

Structure Foundation - View Foundation - Results Foundation - Reinforcement Foundation - note

Type C Name

Stories

Standard Level

Undefined

S9

S7

S7

S8

S6

S5

S5

S5

S4

S4

S4

S3

S3

S2

S2

S1

S1

Structure elements / Drawings

Name	Value	Unit
General		
Calculation status	available	
Reinforcement pa...		
Calculation option...		
Material properties		
Concrete		
Class	C25/30	
Characteristic ...	25,00	(MPa)
Longitudinal reinf...		
Class	B500A (Deformed)	
Characteristic ...	500,00	(MPa)
Transversal reinf...		
Class	B500A (Deformed)	
Characteristic ...	500,00	(MPa)
Elevation		
Reference level	-	(m)
Geometry	Rectangular	
Structure		
Objects		
Nodes	1215 1218 3760 3761	
Bars		
Panels		
Loads		
Simple cases		
Manual combin...	100 101 102 103 10...	
Code combinati...		

Foundation

Foundation - note

• Classe de estrutura : S1

1.3.2 Análise do punção e do esforço transverso

Sem punção

1.3.3 Armadura teórica

Sapata:

inferior:

ALS : comb1 N=134,36 Mx=-296,42 My=-80,59 Fx=-12,03 Fy=44,24
 My = 82,61 (kN*m) $A_{sx} = 3,14$ (cm²/m)

ALS : comb1 N=134,36 Mx=-296,42 My=-80,59 Fx=-12,03 Fy=44,24
 Mx = 222,80 (kN*m) $A_{sy} = 3,14$ (cm²/m)

$A_{s\ min} = 3,14$ (cm²/m)

Armaduras superiores:

ALS : comb15 N=-28,91 Mx=343,02 My=80,94 Fx=12,08 Fy=-51,20
 My = -51,87 (kN*m) $A_{sx} = 3,14$ (cm²/m)

ALS : comb15 N=-28,91 Mx=343,02 My=80,94 Fx=12,08 Fy=-51,20
 Mx = -203,65 (kN*m) $A_{sy} = 3,14$ (cm²/m)

$A_{s\ min} = 3,14$ (cm²/m)

Fuste:

Armaduras longitudinais $A = 32,07$ (cm²) $A_{min} = 7,20$ (cm²)
 $A = 2 * (A_{sx} + A_{sy})$
 $A_{sx} = 2,25$ (cm²) $A_{sy} = 13,79$ (cm²)

1.3.4 Armaduras adoptadas

Sapata:

Inferior:

Ao longo do eixo X:
 16 B500A 10 l = 2,8800 (m) e = 1*-1,4400

Ao longo do eixo Y:
 12 B500A 10 l = 3,8800 (m) e = 0,2500

Armaduras superiores:

Ao longo do eixo X: