

Grupa A

Zadatak **1**

b	35 cm
h	60 cm
d1	5 cm
d	55 cm
fck	30 Mpa
fcd	20 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

M _{sd}	80.0 kNm
μ _{sd}	0.038
x	5.89 cm
z	52.91 cm
A _{s1}	3.48 cm ²

Zadatak **2**

b	30 cm
h	50 cm
d1	5 cm
d	45 cm
fck	25 Mpa
fcd	16.67 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

ε _{s1}	10.0 ‰	
M _{Rd}	161.0 kNm	0.159
ε _{s1}	5.0 ‰	
M _{Rd}	237.9 kNm	0.235
ε _{s1}	3.0 ‰	
M _{Rd}	291.6 kNm	0.288

Zadatak **3**

b _{eff}	180 cm	
b _w	30 cm	
h _f	8 cm	
h	70 cm	
d1	5	12 cm
d	65	58 cm
fck	35 Mpa	
fcd	23.33 Mpa	
fyk	500 Mpa	
fyd	434.78 Mpa	

(1)

M _{sd}	150.0 kNm	ε _{s1}	10.0 ‰	
μ _{sd}	0.008	ε _{c2}	0.2 ‰	
x	4.81 cm	ξ	0.074	0.02
z	63.31 cm	ζ	0.974	
A _{s1}	5.45 cm ²			

(2)

M _{sd}	1800.0 kNm	ε _{s1}	10.0 ‰
μ _{sd}	0.127	ε _{c2}	0.2 ‰
x	1.16 cm	ξ	0.02
z	57.59 cm	ζ	0.993
A _{s1}	76.67 cm ²		

Grupa B

Zadatak **1**

b	35 cm
h	60 cm
d1	5 cm
d	55 cm
fck	30 Mpa
fcd	20 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

M _{sd}	120.0 kNm
μ _{sd}	0.057
x	7.15 cm
z	52.415 cm
A _{s1}	5.27 cm ²

Zadatak **2**

b	30 cm
h	50 cm
d1	5 cm
d	45 cm
fck	25 Mpa
fcd	16.67 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

ε _{s1}	10.0 ‰	
M _{Rd}	161.0 kNm	0.159
ε _{s1}	5.0 ‰	
M _{Rd}	237.9 kNm	0.235
ε _{s1}	3.0 ‰	
M _{Rd}	291.6 kNm	0.288

Zadatak **3**

b _{eff}	180 cm	
b _w	30 cm	
h _f	8 cm	
h	70 cm	
d1	5	12 cm
d	65	58 cm
fck	35 Mpa	
fcd	23.33 Mpa	
fyk	500 Mpa	
fyd	434.78 Mpa	

(1)

M _{sd}	220.0 kNm	ε _{s1}	10.0 ‰	
μ _{sd}	0.012	ε _{c2}	0.2 ‰	
x	4.81 cm	ξ	0.074	0.02
z	63.31 cm	ζ	0.974	
A _{s1}	7.99 cm ²			

(2)

M _{sd}	2100.0 kNm	ε _{s1}	10.0 ‰
μ _{sd}	0.149	ε _{c2}	0.2 ‰
x	1.16 cm	ξ	0.02
z	57.59 cm	ζ	0.993
A _{s1}	89.44 cm ²		

Grupa C

Zadatak **1**

b	35 cm
h	60 cm
d1	5 cm
d	55 cm
fck	30 Mpa
fcd	20 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

M _{sd}	150.0 kNm
μ _{sd}	0.071
x	7.98 cm
z	52.085 cm
A _{s1}	6.62 cm ²

Zadatak **2**

b	30 cm
h	50 cm
d1	5 cm
d	45 cm
fck	25 Mpa
fcd	16.67 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

ε _{s1}	10.0 ‰	
M _{Rd}	161.0 kNm	0.159
ε _{s1}	5.0 ‰	
M _{Rd}	237.9 kNm	0.235
ε _{s1}	3.0 ‰	
M _{Rd}	291.6 kNm	0.288

Zadatak **3**

b _{eff}	180 cm	
b _w	30 cm	
h _f	8 cm	
h	70 cm	
d1	5	12 cm
d	65	58 cm
fck	35 Mpa	
fcd	23.33 Mpa	
fyk	500 Mpa	
fyd	434.78 Mpa	

(1)

M _{sd}	280.0 kNm	ε _{s1}	10.0 ‰	
μ _{sd}	0.016	ε _{c2}	0.2 ‰	
x	4.81 cm	ξ	0.074	0.02
z	63.31 cm	ζ	0.974	
A _{s1}	10.17 cm ²			

(2)

M _{sd}	1700.0 kNm	ε _{s1}	10.0 ‰
μ _{sd}	0.120	ε _{c2}	0.2 ‰
x	1.16 cm	ξ	0.02
z	57.59 cm	ζ	0.993
A _{s1}	72.41 cm ²		

Grupa D

Zadatak **1**

b	35 cm
h	60 cm
d1	5 cm
d	55 cm
fck	30 Mpa
fcd	20 Mpa
fyk	500 Mpa
fyd	434.78 Mpa

M _{sd}	160.0 kNm
μ _{sd}	0.076
x	8.42 cm
z	51.92 cm
A _{s1}	7.09 cm ²

Zadatak **2**

b	30 cm	ε _{s1}	10.0 ‰	
h	50 cm	M _{Rd}	161.0 kNm	0.159
d1	5 cm	ε _{s1}	5.0 ‰	
d	45 cm	M _{Rd}	237.9 kNm	0.235
fck	25 Mpa	ε _{s1}	3.0 ‰	
fcd	16.67 Mpa	M _{Rd}	291.6 kNm	0.288
fyk	500 Mpa			
fyd	434.78 Mpa			

Zadatak **3**

b _{eff}	180 cm	
b _w	30 cm	
h _f	8 cm	
h	70 cm	
d1	5	12 cm
d	65	58 cm
fck	35 Mpa	
fcd	23.33 Mpa	
fyk	500 Mpa	
fyd	434.78 Mpa	

(1)

M _{sd}	300.0 kNm	ε _{s1}	10.0 ‰	
μ _{sd}	0.017	ε _{c2}	0.2 ‰	
x	4.81 cm	ξ	0.074	0.02
z	63.31 cm	ζ	0.974	
A _{s1}	10.90 cm ²			

(2)

M _{sd}	1600.0 kNm	ε _{s1}	10.0 ‰
μ _{sd}	0.113	ε _{c2}	0.2 ‰
x	1.16 cm	ξ	0.02
z	57.59 cm	ζ	0.993
A _{s1}	68.15 cm ²		