

## 27. STATIČKE TABLICE I TABLICE ZA DIMENZIONIRANJE

### 27.1. TABLICE ZA PRORAČUN MOMENATA SAVIJANJA I POPREČNIH SILA KONTINUIRANIH NOSAČA

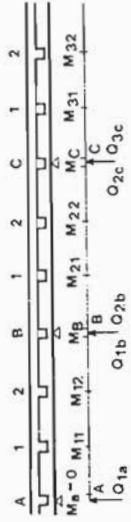
#### NAPOMENA:

Kako su ove tablice kopirane iz Priručnika za proračun armiranobetonskih konstrukcija [70], u njima je ostala oznaka "Q" za poprečne sile, što nije u skladu s oznakom za te sile "V" rabljenu u ovoj knjizi.

Razmaci žica u tablicama za mrežastu armaturu 1, 2. i 3. označeni su za uzdužne žice sa "a", umjesto  $s_p$ , a poprečnih sa "t", umjesto  $s_t$ .

Mole se, stoga, korisnici ove knjige da opravdaju ovaj nesklad.

Nosači sa 2 do 5 jednakih polja s jednakim rasporedom opterećenja u poljima (kontinuiranim ili koncentriranim)



Nosač preko dva jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
0.2001, 0.2001 A B C Za stalno opterećenje stavlja se G umjesto P, odnosno g umjesto p	M <sub>11</sub>	0.070 pl <sup>2</sup>	0.156 Fl	0.222 Fl	0.180 Fl	0.258 Fl	0.095 Kl	0.094 Kl	0.089 Kl	0.089 Kl	
	M <sub>12</sub>		0.111 F	0.039 Fl	0.039 Fl	0.266 Fl	0.219 Fl	0.094 Kl			
	M <sub>13</sub>		-0.188 Fl	-0.333 Fl	-0.281 Fl	0.023 Fl	-0.080 Fl				
	M <sub>Bmin</sub>		0.375 pl	0.667 F	0.719 F	-0.469 Fl	-0.395 F	-0.156 Kl	-0.151 Kl	-0.151 Kl	
	R <sub>A</sub> =Q <sub>1A</sub>		1.250 pl	2.667 F	2.563 F	1.031 F	1.104 F	0.344 Kl	0.345 Kl	0.349 Kl	
	R <sub>Bmax</sub>		-0.625 pl	-1.333 F	-1.281 F	3.938 F	3.792 F	1.312 Kl	1.310 Kl	1.302 Kl	
	Q <sub>1Bmin</sub>		0.095 pl <sup>2</sup>	0.203 Fl	0.278 Fl	0.215 Fl	0.316 Fl	0.129 Kl	0.125 Kl	0.121 Kl	
	M <sub>11max</sub>			0.222 F	0.145 Fl	0.145 Fl	0.333 Fl	0.319 Fl			
	M <sub>12max</sub>			-0.094 Fl	-0.107 Fl	-0.141 Fl	0.200 Fl	0.085 Fl	-0.078 Kl	-0.078 Kl	
	M <sub>13max</sub>			0.406 F	0.833 F	0.859 F	1.266 F	1.302 F	0.422 Kl	0.424 Kl	
M <sub>B</sub>			-0.047 Fl	-0.056 Fl	-0.035 Fl	-0.059 Fl	-0.032 Fl	-0.035 Kl	-0.034 Kl		
R <sub>A</sub> =Q <sub>1Amax</sub>			-0.111 Fl	-0.106 Fl	-0.106 Fl	-0.117 Fl	-0.059 Fl	-0.035 Kl	-0.034 Kl		
M <sub>11min</sub>			-0.094 F	-0.157 F	-0.141 F	-0.234 F	-0.198 F	-0.078 Kl	-0.076 Kl		
M <sub>12min</sub>											
M <sub>13min</sub>											
R <sub>A</sub> =Q <sub>1Amin</sub>											

Nosač preko tri jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
0.21051, 0.20001 A B C D Za stalno opterećenje stavlja se G umjesto P, odnosno g umjesto p	M <sub>11</sub>	0.080 pl <sup>2</sup>	0.175 Fl	0.244 Fl	0.194 Fl	0.281 Fl	0.108 Kl	0.107 Kl	0.102 Kl	0.102 Kl	
	M <sub>12</sub>		0.100 Fl	0.156 Fl	0.081 Fl	0.313 Fl	0.258 Fl	0.107 Kl			
	M <sub>13</sub>		0.100 Fl	0.067 Fl	0.025 Fl	0.094 Fl	-0.067 Fl	0.042 Kl	0.040 Kl	0.063 Kl	
	M <sub>21</sub>		-0.150 Fl	-0.267 Fl	-0.267 Fl	-0.375 Fl	-0.317 Fl	-0.125 Kl	-0.124 Kl	-0.121 Kl	
	M <sub>22</sub>		0.400 pl	0.733 F	0.775 F	1.125 F	1.183 F	0.375 Kl	0.375 Kl	0.379 Kl	
	R <sub>A</sub> =Q <sub>1A</sub>		1.100 pl	2.267 F	2.225 F	3.375 F	3.317 F	1.124 Kl	1.124 Kl	1.121 Kl	
	R <sub>B</sub>		-0.600 pl	-1.267 F	-1.225 F	-1.875 F	-1.817 F	-0.625 Kl	-0.624 Kl	-0.621 Kl	
	Q <sub>1B</sub>		0.500 pl	1.000 F	1.000 F	1.500 F	1.500 F	0.500 Kl	0.500 Kl	0.500 Kl	
	Q <sub>2B</sub> =Q <sub>2C</sub>		0.101 pl <sup>2</sup>	0.213 Fl	0.289 Fl	0.222 Fl	0.328 Fl	0.136 Kl	0.134 Kl	0.128 Kl	
	M <sub>11max</sub>				0.244 Fl	0.166 Fl	0.406 Fl	0.338 Fl	0.134 Kl		
M <sub>12max</sub>				-0.133 Fl	-0.113 Fl	-0.168 Fl	-0.158 Fl	-0.062 Kl	-0.061 Kl		
M <sub>13max</sub>				-0.133 Fl	-0.133 Fl	-0.168 Fl	-0.158 Fl	-0.062 Kl	-0.061 Kl		
M <sub>21min</sub>				0.867 F	0.867 F	1.313 F	1.342 F	0.375 Kl	0.376 Kl		
M <sub>22min</sub>											
M <sub>B</sub>											
R <sub>A</sub> =Q <sub>1Amax</sub>											

Nosač preko tri jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
	$M_{11} \min$	-0.038 FI	-0.044 FI	-0.028 FI	-0.047 FI	-0.026 FI	-0.028 KI	-0.027 KI	-0.028 KI	-0.027 KI	-0.027 KI
	$M_{12} \min$	-	-0.089 FI	-0.084 FI	-0.094 FI	-0.079 FI	-	-	-	-	-
	$M_{13} \min$	-	-	-	0.141 FI	-0.132 FI	-	-	-	-	-
	$M_{21} \max$	0.075 pl <sup>2</sup>	0.200 FI	0.138 FI	0.188 FI	0.100 FI	0.104 KI	0.096 KI	0.102 KI	0.096 KI	0.096 KI
	$M_{22} \max$	-	0.200 FI	0.138 FI	0.188 FI	0.100 FI	-	-	-	-	-
	$M_B$	-0.050 pl <sup>2</sup>	-0.130 FI	-0.113 FI	-0.188 FI	0.258 FI	-0.063 KI	-0.061 KI	-0.062 KI	-0.061 KI	-0.061 KI
	$R_A = O_{1A} \min$	-0.050 pl	-0.133 F	-0.113 F	-0.188 F	-0.158 F	-0.063 K	-0.062 K	-0.062 K	-0.061 K	-0.061 K
	$M_B \min$	-0.117 pl <sup>2</sup>	-0.311 FI	-0.263 FI	-0.438 FI	-0.369 FI	-0.146 KI	-0.142 KI	-0.145 KI	-0.142 KI	-0.142 KI
	$M_C$	-0.039 pl <sup>2</sup>	-0.099 FI	-0.075 FI	-0.125 FI	-0.106 FI	-0.041 KI	-0.041 KI	-0.041 KI	-0.041 KI	-0.041 KI
	$R_B \max$	1.200 pl	1.300 F	2.450 F	3.750 F	3.633 F	1.251 K	1.249 K	1.249 K	1.244 K	1.244 K
$O_{1B} \min$	-0.617 pl	-1.311 F	-1.263 F	-1.837 F	-1.869 F	-0.646 K	-0.645 K	-0.645 K	-0.642 K	-0.642 K	
$O_{2B} \max$	0.583 pl	1.222 F	1.188 F	1.813 F	1.764 F	0.605 K	0.604 K	0.604 K	0.602 K	0.602 K	
	$M_B \max$	0.025 FI	0.044 FI	0.036 FI	0.063 FI	0.053 FI	0.022 KI	0.021 KI	0.021 KI	0.021 KI	
	$M_C$	-0.067 pl <sup>2</sup>	-0.178 FI	-0.150 FI	-0.250 FI	-0.211 FI	-0.083 KI	-0.083 KI	-0.083 KI	-0.081 KI	-0.081 KI
	$O_{1B} \max$	0.017 pl	0.044 F	0.038 F	0.063 F	0.053 F	0.022 K	0.021 K	0.021 K	0.021 K	0.021 K
	$O_{2B} \min$	-0.083 pl	-0.222 F	-0.180 F	-0.313 F	-0.264 F	-0.105 K	-0.104 K	-0.104 K	-0.102 K	-0.102 K
		$M_{11} \max$	0.170 FI	0.238 FI	0.190 FI	0.275 FI	0.193 FI	0.104 KI	0.103 KI	0.103 KI	0.098 KI
		$M_{12}$	-	0.143 FI	0.069 FI	0.299 FI	0.247 FI	-	-	-	-
		$M_{13}$	-	-	-	0.074 FI	-0.033 FI	-	-	-	-
		$M_{21}$	0.037 pl <sup>2</sup>	0.079 FI	0.029 FI	0.007 FI	-0.070 FI	0.056 KI	0.049 KI	0.053 KI	0.049 KI
		$M_{22}$	-	0.111 FI	0.059 FI	0.165 FI	0.134 FI	-	-	-	-
		$M_{23}$	-	-	-	0.074 FI	0.005 FI	-	-	-	-
$M_B$		-0.107 pl <sup>2</sup>	-0.286 FI	-0.241 FI	-0.402 FI	-0.339 FI	-0.134 KI	-0.130 KI	-0.133 KI	-0.130 KI	
$M_C$		-0.071 pl <sup>2</sup>	-0.107 FI	-0.161 FI	-0.268 FI	-0.226 FI	-0.089 KI	-0.088 KI	-0.088 KI	-0.086 KI	
$R_A = O_{1A}$		0.393 pl	0.714 F	0.759 F	1.096 F	1.161 F	0.366 K	0.367 K	0.367 K	0.370 K	
$R_B$		1.143 pl	1.214 F	2.321 F	3.536 F	3.452 F	1.179 K	1.178 K	1.178 K	1.174 K	
$R_C$	0.929 pl	0.892 F	1.810 F	2.732 F	2.774 F	0.910 K	0.910 K	0.910 K	0.912 K		
$O_{1B}$	-0.607 pl	-1.286 F	-1.241 F	-1.902 F	-1.839 F	-0.634 K	-0.633 K	-0.633 K	-0.630 K		
$O_{2B}$	0.536 pl	0.554 F	1.095 F	1.634 F	1.613 F	0.545 K	0.545 K	0.545 K	0.544 K		
$O_{2C}$	-0.464 pl	-0.446 F	-0.920 F	-1.366 F	-1.387 F	-0.455 K	-0.455 K	-0.455 K	-0.456 K		
	$M_{11} \max$	0.210 FI	0.286 FI	0.220 FI	0.325 FI	0.222 FI	0.134 KI	0.132 KI	0.132 KI	0.126 KI	
	$M_{12} \max$	-	0.238 FI	0.160 FI	0.400 FI	0.332 FI	-	-	-	-	
	$M_{13} \max$	-	-	-	0.224 FI	0.109 FI	-	-	-	-	
	$M_{21} \min$	-0.045 pl <sup>2</sup>	-0.127 FI	-0.110 FI	-0.184 FI	-0.160 FI	-0.056 KI	-0.056 KI	-0.056 KI	-0.055 KI	
	$M_{22} \min$	-	-	-	-0.167 FI	-0.141 FI	-	-	-	-	
	$M_{23} \min$	-	-	-	-0.151 FI	-0.123 FI	-	-	-	-	
	$M_B$	-0.054 pl <sup>2</sup>	-0.143 FI	-0.121 FI	-0.201 FI	-0.170 FI	-0.067 KI	-0.067 KI	-0.067 KI	-0.065 KI	
	$M_C$	-0.036 pl <sup>2</sup>	-0.054 FI	-0.090 FI	-0.134 FI	-0.113 FI	-0.045 KI	-0.045 KI	-0.045 KI	-0.041 KI	
	$R_A = O_{1A} \max$	0.446 pl	0.857 F	0.879 F	1.299 F	1.299 F	0.433 K	0.433 K	0.433 K	0.435 K	

Nosač preko četiri jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
	$M_{11}$	0.077 pl <sup>2</sup>	0.238 FI	0.190 FI	0.275 FI	0.193 FI	0.104 KI	0.103 KI	0.103 KI	0.098 KI	
	$M_{12}$	-	0.143 FI	0.069 FI	0.299 FI	0.247 FI	-	-	-	-	
	$M_{13}$	-	-	-	0.074 FI	-0.033 FI	-	-	-	-	
	$M_{21}$	0.037 pl <sup>2</sup>	0.079 FI	0.029 FI	0.007 FI	-0.070 FI	0.056 KI	0.049 KI	0.053 KI	0.049 KI	
	$M_{22}$	-	0.111 FI	0.059 FI	0.165 FI	0.134 FI	-	-	-	-	
	$M_{23}$	-	-	-	0.074 FI	0.005 FI	-	-	-	-	
	$M_B$	-0.107 pl <sup>2</sup>	-0.286 FI	-0.241 FI	-0.402 FI	-0.339 FI	-0.134 KI	-0.130 KI	-0.133 KI	-0.130 KI	
	$M_C$	-0.071 pl <sup>2</sup>	-0.107 FI	-0.161 FI	-0.268 FI	-0.226 FI	-0.089 KI	-0.088 KI	-0.088 KI	-0.086 KI	
	$R_A = O_{1A}$	0.393 pl	0.714 F	0.759 F	1.096 F	1.161 F	0.366 K	0.367 K	0.367 K	0.370 K	
	$R_B$	1.143 pl	1.214 F	2.321 F	3.536 F	3.452 F	1.179 K	1.178 K	1.178 K	1.174 K	
$R_C$	0.929 pl	0.892 F	1.810 F	2.732 F	2.774 F	0.910 K	0.910 K	0.910 K	0.912 K		
$O_{1B}$	-0.607 pl	-1.286 F	-1.241 F	-1.902 F	-1.839 F	-0.634 K	-0.633 K	-0.633 K	-0.630 K		
$O_{2B}$	0.536 pl	0.554 F	1.095 F	1.634 F	1.613 F	0.545 K	0.545 K	0.545 K	0.544 K		
$O_{2C}$	-0.464 pl	-0.446 F	-0.920 F	-1.366 F	-1.387 F	-0.455 K	-0.455 K	-0.455 K	-0.456 K		
	$M_{11} \max$	0.210 FI	0.286 FI	0.220 FI	0.325 FI	0.222 FI	0.134 KI	0.132 KI	0.132 KI	0.126 KI	
	$M_{12} \max$	-	0.238 FI	0.160 FI	0.400 FI	0.332 FI	-	-	-	-	
	$M_{13} \max$	-	-	-	0.224 FI	0.109 FI	-	-	-	-	
	$M_{21} \min$	-0.045 pl <sup>2</sup>	-0.127 FI	-0.110 FI	-0.184 FI	-0.160 FI	-0.056 KI	-0.056 KI	-0.056 KI	-0.055 KI	
	$M_{22} \min$	-	-	-	-0.167 FI	-0.141 FI	-	-	-	-	
	$M_{23} \min$	-	-	-	-0.151 FI	-0.123 FI	-	-	-	-	
	$M_B$	-0.054 pl <sup>2</sup>	-0.143 FI	-0.121 FI	-0.201 FI	-0.170 FI	-0.067 KI	-0.067 KI	-0.067 KI	-0.065 KI	
	$M_C$	-0.036 pl <sup>2</sup>	-0.054 FI	-0.090 FI	-0.134 FI	-0.113 FI	-0.045 KI	-0.045 KI	-0.045 KI	-0.041 KI	
	$R_A = O_{1A} \max$	0.446 pl	0.857 F	0.879 F	1.299 F	1.299 F	0.433 K	0.433 K	0.433 K	0.435 K	

Nosač preko četiri jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
		$x = 10,4 + 0,51l$	$1/2$	$1/3, 1/3, 1/3$	$1/4, 1/2, 1/4$	$1/4, 1/4, 1/4, 1/4$	$1/5, 1/3, 1/3, 1/3$	$1/2, 1/2$	$1/2, 1/2$	$0,4, 0,2, 1,0, 4, 1,0, 3, 1$	$0,4, 0,2, 1,0, 4, 1,0, 3, 1$
	M <sub>1</sub> min	-0,023 pl <sup>2</sup>	-0,040 FI	-0,048 FI	-0,030 FI	-0,050 FI	-0,028 FI	-0,030 KI	-0,030 KI	-0,029 KI	
	M <sub>12</sub> min			-0,095 FI	-0,090 FI	-0,110 FI	-0,085 FI				
	M <sub>13</sub> min					-0,151 FI	-0,141 FI				
	M <sub>2</sub> max	0,080 pl <sup>2</sup>	0,183 FI	0,206 FI	0,140 FI	0,191 FI	0,090 FI*	0,111 KI	0,108 KI	0,102 KI	
M <sub>22</sub> max			0,222 FI	0,160 FI	0,333 FI	(0,099 FI)					
M <sub>23</sub> max					0,224 FI	0,127 FI*					
M <sub>B</sub>	-0,054 pl <sup>2</sup>	-0,090 FI	-0,143 FI	-0,121 FI	-0,201 FI	-0,170 FI	-0,067 KI	-0,067 KI	-0,065 KI		
M <sub>C</sub>	-0,036 pl <sup>2</sup>	-0,054 FI	-0,095 FI	-0,080 FI	0,134 FI	-0,113 FI	-0,045 KI	-0,045 KI	-0,044 KI		
R <sub>A</sub> = Q <sub>1</sub> A min	-0,054 pl	-0,080 F	-0,143 F	-0,121 F	-0,201 F	-0,170 F	-0,067 K	-0,067 K	-0,065 K		

\* Označeni način opterećenja ne daje točnu max. odnosno min. vrijednost jer se ova točka nalazi na vanjskom potpazu nosača (između stalne točke i ležaja). Granična vrijednost dobivena drugačijim načinom opterećenja dana je u zagradi.

Nosač preko četiri jednaka raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
		$x = 10,4 + 0,51l$	$1/2$	$1/3, 1/3, 1/3$	$1/4, 1/2, 1/4$	$1/4, 1/4, 1/4, 1/4$	$1/5, 1/3, 1/3, 1/3$	$1/2, 1/2$	$1/2, 1/2$	$0,4, 0,2, 1,0, 4, 1,0, 3, 1$	$0,4, 0,2, 1,0, 4, 1,0, 3, 1$
	M <sub>B</sub> min	-0,121 pl <sup>2</sup>	-0,181 FI	-0,321 FI	-0,271 FI	-0,452 FI	-0,382 FI	-0,151 KI	-0,150 KI	-0,148 KI	
	M <sub>C</sub>	-0,018 pl <sup>2</sup>	-0,027 FI	-0,048 FI	-0,040 FI	-0,067 FI	-0,057 FI	-0,023 KI	-0,022 KI	-0,022 KI	
	M <sub>D</sub>	-0,058 pl <sup>2</sup>	-0,087 FI	-0,155 FI	-0,131 FI	-0,218 FI	-0,184 FI	-0,072 KI	-0,072 KI	-0,070 KI	
	R <sub>B</sub> max	1,223 pl	1,335 F	2,595 F	2,502 F	3,637 F	3,707 F	1,279 K	1,279 K	1,270 K	
Q <sub>1B</sub> min	-0,621 pl	-0,881 F	-1,321 F	-1,271 F	-1,952 F	-1,862 F	-0,651 K	-0,651 K	-0,646 K		
Q <sub>2B</sub> max	0,603 pl	0,854 F	1,274 F	1,231 F	1,885 F	1,825 F	0,628 K	0,628 K	0,624 K		
M <sub>B</sub> max	0,013 pl <sup>2</sup>	0,020 FI	0,036 FI	0,030 FI	0,050 FI	0,042 FI	0,017 KI	0,017 KI	0,016 KI		
M <sub>C</sub>	-0,054 pl <sup>2</sup>	-0,080 FI	-0,143 FI	-0,120 FI	-0,201 FI	-0,170 FI	-0,068 KI	-0,068 KI	-0,064 KI		
M <sub>D</sub>	-0,049 pl <sup>2</sup>	-0,074 FI	-0,131 FI	-0,110 FI	-0,104 FI	-0,156 FI	-0,069 KI	-0,061 KI	-0,060 KI		
Q <sub>1B</sub> max	-0,080 pl	-0,121 F	-0,214 F	-0,181 F	-0,301 F	-0,254 F	-0,100 K	-0,100 K	-0,090 K		
Q <sub>2B</sub> min	-0,087 pl	-0,100 F	-0,178 F	-0,151 F	-0,251 F	-0,212 F	-0,083 K	-0,083 K	-0,080 K		
M <sub>B</sub>	-0,036 pl <sup>2</sup>	-0,054 FI	-0,095 FI	-0,080 FI	-0,134 FI	-0,113 FI	-0,045 KI	-0,045 KI	-0,044 KI		
M <sub>C</sub> min	-0,107 pl <sup>2</sup>	-0,181 FI	-0,286 FI	-0,241 FI	-0,402 FI	-0,339 FI	-0,134 KI	-0,133 KI	-0,130 KI		
R <sub>C</sub> max	1,143 pl	1,214 F	2,381 F	2,321 F	3,536 F	3,452 F	1,178 K	1,178 K	1,172 K		
Q <sub>2C</sub> min	-0,571 pl	-0,807 F	-1,191 F	-1,160 F	-1,768 F	-1,726 F	-0,589 K	-0,588 K	-0,586 K		
M <sub>B</sub>	-0,071 pl <sup>2</sup>	-0,107 FI	-0,190 FI	-0,161 FI	-0,268 FI	-0,226 FI	-0,089 KI	-0,089 KI	-0,086 KI		
M <sub>C</sub> max	0,036 pl <sup>2</sup>	0,054 FI	0,095 FI	0,080 FI	0,134 FI	0,113 FI	0,045 KI	0,045 KI	0,044 KI		
R <sub>C</sub> min	-0,214 pl	-0,321 F	-0,571 F	-0,482 F	-0,804 F	-0,757 F	-0,268 K	-0,268 K	-0,260 K		
Q <sub>2C</sub> max	0,107 pl	0,161 F	0,286 F	0,241 F	0,402 F	0,339 F	0,134 K	0,133 K	0,130 K		

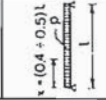
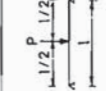
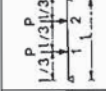
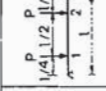
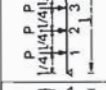
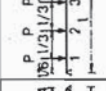
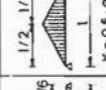

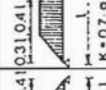
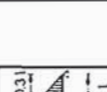
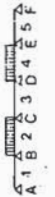
Nosač preko pet jednakih raspona

Način opterećenja	Statička velična	Način opterećenja u opterećenom polju									
		$x = (0,4 \pm 0,5)l$	$1/2$	$1/3, 1/3, 1/3$	$1/4, 1/2, 1/4$	$1/4, 1/4, 1/4, 1/4$	$1/5, 1/3, 1/3, 1/5$	$1/2, 1/2$	$0,41, 0,21, 0,41$	$0,31, 0,41, 0,31$	
<p>0.2113   0.2113   0.2105  </p> <p>0.2000  </p> <p>A 1 B 2 C 3 D 4 E 5 F</p>	$M_{11}$	0,078 $pl^2$	0,171 F	0,240 F	0,191 F	0,276 F	0,194 F	0,106 K	0,104 K	0,099 K	
	$M_{12}$	-	-	0,146 F	0,072 F	0,303 F	0,250 F	-	-	-	
	$M_{13}$	-	-	0,076 F	0,028 F	0,005 F	-0,028 F	-	-	-	
	$M_{21}$	0,033 $pl^2$	0,112 F	0,099 F	0,058 F	0,155 F	-0,069 F	0,052 K	0,050 K	0,046 K	
	$M_{22}$	-	-	0,123 F	0,072 F	0,054 F	0,125 F	-	-	-	
	$M_{23}$	0,046 $pl^2$	0,132 F	0,123 F	0,072 F	0,079 F	0	0,066 K	0,066 K	0,061 K	
	$M_{31}$	-	-	0,123 F	0,072 F	0,204 F	0,167 F	-	-	-	
	$M_{32}$	-0,105 $pl^2$	-0,158 F	-0,281 F	-0,237 F	-0,395 F	-0,333 F	-0,131 K	-0,130 K	-0,127 K	
	$M_B$	-0,079 $pl^2$	-0,118 F	-0,211 F	-0,179 F	-0,296 F	-0,250 F	-0,099 K	-0,098 K	-0,096 K	
	$M_C$	0,385 pl	0,342 F	0,719 F	0,763 F	1,105 F	1,167 F	0,369 K	0,370 K	0,373 K	
	$R_A = Q_{1A}$	1,132 pl	1,197 F	2,351 F	2,296 F	3,494 F	3,417 F	1,163 K	1,162 K	1,158 K	
	$R_B$	0,974 pl	0,960 F	1,930 F	1,941 F	2,901 F	2,917 F	0,968 K	0,968 K	0,968 K	
	$Q_{18}$	-0,605 pl	-0,658 F	-1,281 F	-1,237 F	-1,895 F	-1,833 F	-0,631 K	-0,630 K	-0,627 K	
	$Q_{28}$	0,526 pl	0,540 F	1,070 F	1,059 F	1,599 F	1,583 F	0,532 K	0,532 K	0,531 K	
$Q_{2c}$	-0,474 pl	-0,460 F	-0,930 F	-0,941 F	-1,401 F	-1,471 F	-0,468 K	-0,468 K	-0,469 K		
$Q_{3c}$	0,500 pl	0,500 F	1,000 F	1,000 F	1,500 F	1,500 F	0,500 K	0,500 K	0,500 K		

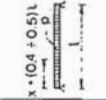
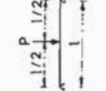
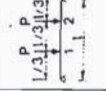
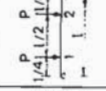
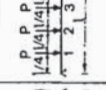
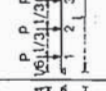
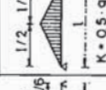
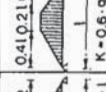
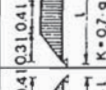
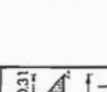
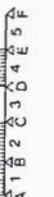
Nosač preko pet jednakih raspona

Način opterećenja	Statička velična	Način opterećenja u opterećenom polju									
		$x = (0,4 \pm 0,5)l$	$1/2$	$1/3, 1/3, 1/3$	$1/4, 1/2, 1/4$	$1/4, 1/4, 1/4, 1/4$	$1/5, 1/3, 1/3, 1/5$	$1/2, 1/2$	$0,41, 0,21, 0,41$	$0,31, 0,41, 0,31$	
<p>A 1 B 2 C 3 D 4 E 5 F</p>	$M_{11}$ max	0,100 $pl^2$	0,211 F	0,287 F	0,220 F	0,326 F	0,222 F	0,135 K	0,132 K	0,126 K	
	$M_{12}$ max	-	-	0,240 F	0,161 F	0,401 F	0,333 F	-	-	-	
	$M_{13}$ max	-	-	-0,120 F	-0,111 F	-0,185 F	0,111 F	-	-	-	
	$M_{21}$ min	0,046 $pl^2$	-0,069 F	-0,120 F	-0,111 F	-0,185 F	-0,160 F*	-0,058 K	-0,058 K	-0,056 K	
	$M_{22}$ min	-	-	-0,117 F	-0,096 F	-0,173 F	(-0,169 F)	-	-	-	
	$M_{23}$ min	-	-	-0,117 F	-0,096 F	-0,160 F	-0,132 F*	-	-	-	
	$M_{31}$ max	0,086 $pl^2$	0,191 F	0,228 F	0,161 F	0,227 F	0,125 F*	0,117 K	0,114 K	0,109 K	
	$M_{32}$ max	-	-	0,228 F	0,161 F	0,352 F	(0,138 F)	-	-	-	
	$M_B$	-0,053 $pl^2$	-0,079 F	-0,140 F	-0,118 F	-0,197 F	-0,167 F	0,066 K	-0,066 K	-0,064 K	
	$M_C$	-0,039 $pl^2$	-0,059 F	-0,105 F	-0,089 F	-0,148 F	-0,125 F	-0,050 K	-0,050 K	-0,048 K	
	$R_A = Q_{1A}$ max	0,447 pl	0,421 F	0,860 F	0,882 F	1,303 F	1,333 F	0,434 K	0,434 K	0,436 K	

Nosač preko pet jednakih raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
											
 $P_A = \sigma_1 \text{ Amin}$	$M_{11\text{min}}$	-0.039 FI	-0.047 FI	-0.030 FI	-0.049 FI	-0.028 FI	-0.030 KI	-0.030 KI	-0.029 KI	-0.029 KI	
	$M_{12\text{min}}$	-	-0.094 FI	-0.089 FI	-0.099 FI	-0.083 FI	-	-	-	-	
	$M_{13\text{min}}$	-	-	-	-	-	-	-	-	-	
	$M_{21\text{max}}$	0.079 pl <sup>2</sup>	0.205 FI	0.139 FI	0.190 FI	0.090 FI*	0.109 KI	0.106 KI	0.101 KI	0.101 KI	
	$M_{22\text{max}}$	-	0.216 FI	0.154 FI	0.327 FI	0.271 FI	-	-	-	-	
	$M_{23\text{max}}$	-	-	0.215 FI	0.118 FI*	0.118 FI*	-	-	-	-	
	$M_{31\text{min}}$	-0.040 pl <sup>2</sup>	-0.105 FI	-0.089 FI	-0.148 FI	-0.148 FI	-0.125 FI*	-0.050 KI	-0.050 KI	-0.048 KI	
	$M_{32\text{min}}$	-	-0.105 FI	-0.089 FI	-0.148 FI	-0.148 FI	-0.138 FI	-	-	-	
	$M_B$	-0.053 pl <sup>2</sup>	-0.079 FI	-0.118 FI	-0.197 FI	-0.167 FI	-0.066 KI	-0.066 KI	-0.066 KI	-0.064 KI	
	$M_C$	-0.039 pl <sup>2</sup>	-0.059 FI	-0.089 FI	-0.148 FI	-0.148 FI	-0.050 KI	-0.050 KI	-0.050 KI	-0.048 KI	
$P_A = \sigma_1 \text{ Amin}$	-0.053 pl	-0.079 F	-0.140 F	-0.197 F	-0.167 F	-0.066 K	-0.066 K	-0.066 K	-0.064 K		

Nosač preko pet jednakih raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
											
 $P_A = \sigma_1 \text{ Amin}$	$M_{B\text{min}}$	-0.120 pl <sup>2</sup>	-0.179 FI	-0.319 FI	-0.269 FI	-0.449 FI	-0.379 FI	-0.149 KI	-0.148 KI	-0.144 KI	
	$M_C$	-0.022 pl <sup>2</sup>	-0.032 FI	-0.057 FI	-0.048 FI	-0.081 FI	-0.068 FI	-0.027 KI	-0.027 KI	-0.027 KI	
	$M_D$	-0.044 pl <sup>2</sup>	-0.066 FI	-0.118 FI	-0.100 FI	-0.166 FI	-0.140 FI	-0.055 KI	-0.055 KI	-0.053 KI	
	$M_E$	-0.051 pl <sup>2</sup>	-0.077 FI	-0.137 FI	-0.116 FI	-0.193 FI	-0.168 FI	-0.064 KI	-0.063 KI	-0.062 KI	
	$R_{B\text{max}}$	1.218 pl	1.327 F	2.581 F	2.490 F	3.817 F	3.680 F	1.271 K	1.259 K	1.201 K	
	$R_{1B\text{min}}$	-0.620 pl	-0.679 F	-1.319 F	-1.265 F	-1.949 F	-1.879 F	-0.649 K	-0.648 K	-0.644 K	
	$R_{2B\text{max}}$	0.599 pl	0.647 F	1.262 F	1.221 F	1.868 F	1.811 F	0.622 K	0.621 K	0.617 K	
	$M_{B\text{max}}$	0.014 pl <sup>2</sup>	0.022 FI	0.038 FI	0.032 FI	0.054 FI	0.045 FI	0.018 KI	0.018 KI	0.017 KI	
	$M_C$	0.057 pl <sup>2</sup>	-0.066 FI	-0.153 FI	-0.129 FI	-0.215 FI	-0.182 FI	-0.072 KI	-0.071 KI	-0.069 KI	
	$M_D$	-0.035 pl <sup>2</sup>	-0.052 FI	-0.093 FI	-0.078 FI	-0.130 FI	-0.110 FI	-0.044 KI	-0.043 KI	-0.043 KI	
$M_E$	-0.054 pl <sup>2</sup>	-0.081 FI	-0.144 FI	-0.121 FI	-0.202 FI	-0.170 FI	-0.067 KI	-0.067 KI	-0.065 KI		
$R_{B\text{min}}$	-0.285 pl	-0.129 F	-0.230 F	-0.194 F	-0.323 F	-0.273 F	-0.108 K	-0.108 K	-0.103 K		
$R_{1B\text{max}}$	0.014 pl	0.022 F	0.038 F	0.032 F	0.054 F	0.045 F	0.018 K	0.018 K	0.017 K		
$R_{2B\text{min}}$	-0.072 pl	-0.108 F	-0.191 F	-0.161 F	-0.269 F	-0.227 F	-0.090 K	-0.089 K	-0.086 K		

Nosač preko pet jednakih raspona

Način opterećenja	Statička veličina	Način opterećenja u opterećenom polju									
		$x = 1/4 + 0.5l$ 	$1/2$ 	$1/3$ 	$1/4$ 	$1/2$ 	$1/4$ 	$1/3$ 	$1/2$ 	$1/4$ 	$1/2$ 
	M <sub>B</sub>	-0.035 pl <sup>2</sup>	-0.052 FI	-0.093 FI	-0.078 FI	-0.130 FI	-0.110 FI	-0.044 KI	-0.043 KI	-0.042 KI	0.310, 0.410, 0.31
	M <sub>C</sub> min	-0.111 pl <sup>2</sup>	-0.167 FI	-0.297 FI	-0.250 FI	-0.417 FI	-0.352 FI	-0.139 KI	-0.138 KI	-0.134 KI	
	M <sub>D</sub>	-0.020 pl <sup>2</sup>	-0.031 FI	0.064 FI	-0.046 FI	-0.076 FI	0.064 FI	-0.025 KI	-0.025 KI	-0.024 KI	
	M <sub>E</sub>	-0.057 pl <sup>2</sup>	-0.086 FI	-0.153 FI	-0.129 FI	-0.215 FI	-0.182 FI	-0.071 KI	-0.071 KI	-0.069 KI	
	R <sub>C</sub> max	1.167 pl	1.251 F	2.447 F	2.377 F	3.628 F	3.530 F	1.209 K	1.209 K	1.208 K	
	Q <sub>2C</sub> min	-0.576 pl	-0.615 F	-1.204 F	-1.172 F	-1.787 F	-1.742 F	-0.595 K	-0.595 K	-0.592 K	
Q <sub>3C</sub> max	0.591 pl	0.636 F	1.242 F	1.205 F	1.841 F	1.788 F	0.613 K	0.613 K	0.610 K		
	M <sub>B</sub>	-0.071 pl <sup>2</sup>	-0.106 FI	-0.180 FI	-0.159 FI	-0.265 FI	-0.223 FI	-0.087 KI	-0.087 KI	-0.085 KI	
	M <sub>C</sub> max	0.032 pl <sup>2</sup>	0.048 FI	0.086 FI	0.073 FI	0.121 FI	0.102 FI	0.040 KI	0.040 KI	0.038 KI	
	M <sub>D</sub>	-0.059 pl <sup>2</sup>	-0.088 FI	-0.156 FI	-0.132 FI	-0.220 FI	-0.186 FI	-0.074 KI	-0.074 KI	-0.072 KI	
	M <sub>E</sub>	-0.048 pl <sup>2</sup>	-0.072 FI	-0.128 FI	-0.108 FI	-0.179 FI	-0.152 FI	-0.060 KI	-0.060 KI	-0.058 KI	
	R <sub>C</sub> min	-0.194 pl	-0.291 F	-0.517 F	-0.436 F	-0.727 F	-0.614 F	-0.241 K	-0.241 K	-0.233 K	
	Q <sub>2C</sub> max	0.103 pl	0.154 F	0.274 F	0.232 F	0.386 F	0.326 F	0.127 K	0.127 K	0.123 K	
Q <sub>3C</sub> min	-0.091 pl	-0.136 F	-0.242 F	-0.205 F	-0.341 F	-0.288 F	-0.113 K	-0.113 K	-0.110 K		

Nosač preko pet i više jednakih raspona, opterećen kontinuiranim opterećenjem

Oznake	Sva polja potpuno opterećena										Minimum										Maksimum										
	α					γ					β					ν					β					ν					
	5	6	7	8	∞	5	6	7	8	∞	5	6	7	8	∞	5	6	7	8	∞	5	6	7	8	∞	5	6	7	8	∞	
M <sub>1</sub>	-0.1053	-0.1058	-0.1056	-0.1057	-0.1057	-0.1196	-0.1199	-0.1198	-0.1198	-0.1198	-0.1196	-0.1198	-0.1198	-0.1198	-0.1198	+0.0143	+0.0141	+0.0141	+0.0141	+0.0141	+0.0141	+0.0142	+0.0142	+0.0141	+0.0141	+0.0141	+0.0141	+0.0141	+0.0141	+0.0141	
M <sub>2</sub>	-0.0789	-0.0789	-0.0775	-0.0773	-0.0774	-0.1112	-0.1102	-0.1106	-0.1105	-0.1105	-0.1112	-0.1102	-0.1106	-0.1105	-0.1105	+0.0223	+0.0333	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	+0.0331	
M <sub>3</sub>		-0.0865	-0.0845	-0.0851	-0.0848	-0.1154	-0.1154	-0.1144	-0.1147	-0.1147	-0.1154	-0.1144	-0.1147	-0.1147	-0.1147	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	+0.0289	
M <sub>4</sub>				-0.0825	-0.0830	-0.1136	-0.1136	-0.1134	-0.1134	-0.1134	-0.1136	-0.1134	-0.1134	-0.1134	-0.1136																
M <sub>5</sub>					-0.0835	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136																
M <sub>6</sub>					-0.0833	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136	-0.1136																
M <sub>11</sub>	+0.0779	+0.0777	+0.0778	+0.0777	+0.0777	-0.0222	-0.0222	-0.0221	-0.0222	-0.0222	-0.0222	-0.0222	-0.0221	-0.0222	-0.0222	+0.1002	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	+0.0999	
M <sub>12</sub>	+0.0332	+0.0341	+0.0338	+0.0339	+0.0339	-0.0458	-0.0454	-0.0455	-0.0454	-0.0454	-0.0458	-0.0454	-0.0455	-0.0454	-0.0454	+0.0790	+0.0795	+0.0795	+0.0795	+0.0795	+0.0795	+0.0794	+0.0794	+0.0795	+0.0795	+0.0795	+0.0795	+0.0795	+0.0795	+0.0795	
M <sub>13</sub>	+0.0461	+0.0433	+0.0440	+0.0438	+0.0438	-0.0394	-0.0408	-0.0405	-0.0406	-0.0405	-0.0394	-0.0408	-0.0405	-0.0406	-0.0405	+0.0855	+0.0841	+0.0841	+0.0841	+0.0841	+0.0841	+0.0844	+0.0844	+0.0841	+0.0841	+0.0841	+0.0841	+0.0841	+0.0841	+0.0841	
M <sub>14</sub>			+0.0405	+0.0412	+0.0411	-0.0412	-0.0411	-0.0423	-0.0432	-0.0419	-0.0412	-0.0411	-0.0423	-0.0432	-0.0419																
M <sub>15</sub>				+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417	+0.0417																
M <sub>16</sub>				+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416	+0.0416																
X <sub>1</sub>	0.395	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.441	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.447	
X <sub>2</sub>	0.526	0.503	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.513	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	
X <sub>3</sub>	0.500	0.490	0.493	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.492	0.500	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	0.495	
X <sub>4</sub>		0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	
X <sub>5</sub>				0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	0.499	
X <sub>6</sub>				0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	

Oznaka	Sva polja potpuno opterećena										Minimum										Maksimum																			
	a					b					c					d					e					f					g					h				
	Broj polja					Broj polja					Broj polja					Broj polja					Broj polja					Broj polja					Broj polja					Broj polja				
$Q_0$	+0.3947	+0.3942	+0.3944	+0.3943	+0.3943	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528	-0.0528
$Q_1$	-0.6052	-0.6058	-0.6056	-0.6057	-0.6057	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198	-0.6196	-0.6199	-0.6198	-0.6198	-0.6198
$Q_2$	+0.5263	+0.5288	+0.5282	+0.5284	+0.5284	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709	-0.0718	-0.0705	-0.0709	-0.0709	-0.0709
$Q_3$	-0.4737	-0.4712	-0.4718	-0.4717	-0.4717	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756	-0.5765	-0.5753	-0.5756	-0.5756	-0.5756
$Q_4$	+0.5000	+0.4903	+0.4930	+0.4924	+0.4924	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946	-0.0909	-0.0959	-0.0946	-0.0946	-0.0946
$Q_5$	-0.5000	-0.5096	-0.5070	-0.5078	-0.5078	+0.5026	+0.5020	+0.5020	+0.5020	+0.5020	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028	-0.5026	-0.5029	-0.5028	-0.5028	-0.5028
$Q_6$																																								
$R_0$	+0.3947	+0.3942	+0.3944	+0.3943	+0.3943	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528	-0.0526	-0.0529	-0.0528	-0.0528	-0.0528
$R_1$	+1.1316	+1.1346	+1.1338	+1.1340	+1.1341	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847	-0.0861	-0.0847	-0.0847	-0.0847	-0.0847
$R_2$	+0.9737	+0.9615	+0.9649	+0.9639	+0.9641	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983	-0.1938	-0.2000	-0.1983	-0.1983	-0.1983
$R_3$																																								
$R_4$																																								
$R_5$																																								
$R_6$																																								

Minimalni ležajni moment  $M_{le} = (ag + yp)^2$   
 Maksimalni moment u polju  $M_{max} = (ng + |lp|)^2$   
 Udelenost maksimalnog momenta od lijevog ležaja  
 $x_n = \xi \cdot l$  - za totalno opterećenje  
 $x_n = \eta \cdot l$  - za opterećenje u nepovoljnijem položaju za  $M_{max}$

27.2. TABLICE ZA PRORAČUN PLOČA NOSIVIH U DVA OKOMITA SMJERA

$$\lambda = \frac{l_y}{l_x}$$

$$M_{x\max} = \frac{q l_x^2}{\epsilon \lambda}$$

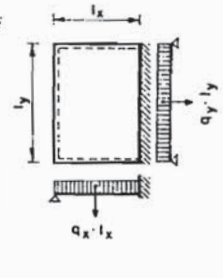
$$M_{y\max} = \frac{q l_y^2}{\phi_y}$$

$$q_f = \kappa \cdot q \quad q_y = (1 - \kappa)q$$

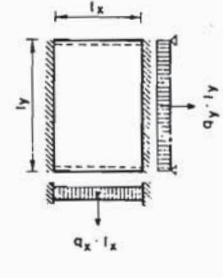


Slučaj 1	$\lambda$	$\phi_{1x}$	$\Delta$	$\phi_{1y}$	$\Delta$	$\kappa_{1x}$	$\Delta$
	1	2	3	4	5	6	7
	0.50	169.17		10.57		0.0588	
	0.55	125.10	8.814	11.35	0.156	0.0838	0.0050
	0.60	94.94	6.031	12.30	0.190	0.1147	0.0052
	0.65	75.31	3.927	13.44	0.228	0.1515	0.0073
	0.70	61.60	2.741	14.79	0.270	0.1936	0.0084
	0.75	51.63	1.983	16.35	0.313	0.2404	0.0093
	0.80	43.97	1.544	18.01	0.331	0.2906	0.0100
	0.85	38.29	1.136	20.15	0.427	0.3430	0.0105
	0.90	34.26	0.807	22.36	0.444	0.3962	0.0106
	0.95	30.44	0.764	24.79	0.486	0.4489	0.0125
	1.00	27.43	0.602	27.43	0.527	0.5000	0.0132
	1.10	22.79	0.464	33.37	0.594	0.5942	0.0054
	1.20	19.45	0.334	40.34	0.697	0.6747	0.0080
	1.30	17.02	0.244	48.60	0.826	0.7407	0.0066
	1.40	15.22	0.180	58.45	0.985	0.7935	0.0053
	1.50	13.87	0.135	70.22	1.176	0.8351	0.0042
	1.60	12.88	0.099	84.43	1.421	0.8666	0.0033
	1.70	12.06	0.082	100.77	1.634	0.8931	0.0025
	1.80	11.45	0.061	121.69	2.092	0.9130	0.0020
	1.90	10.97	0.048	143.00	2.131	0.9287	0.0016
	2.00	10.57	0.040	169.17	2.617	0.9412	0.0012

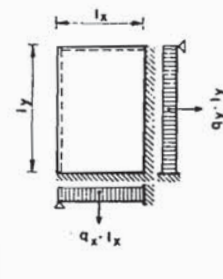


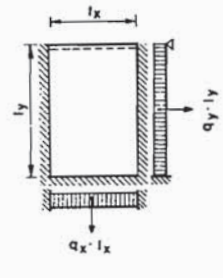
Slučaj 2	$\lambda$	$\varphi_{2x}$	$\Delta$	$\varphi_{2y}$	$\Delta$	$\kappa_{2x}$	$\Delta$
	8	9	10	11	12	13	14
	0.50	140.91		11.28		0.1351	
	0.55	107.37	6.707	12.38	0.217	0.1862	0.0102
	0.60	85.30	4.414	13.70	0.266	0.2447	0.0117
	0.65	70.59	2.542	15.29	0.320	0.3086	0.0128
	0.70	59.24	2.270	17.19	0.379	0.3751	0.0133
	0.75	50.86	1.676	19.41	0.444	0.4417	0.0133
	0.80	44.56	1.259	21.99	0.516	0.5059	0.0129
	0.85	39.70	0.971	24.96	0.595	0.5661	0.0121
	0.90	35.74	0.792	28.37	0.683	0.6212	0.0110
	0.95	32.54	0.640	32.30	0.786	0.6706	0.0099
	1.00	29.93	0.522	36.75	0.890	0.7143	0.0087
	1.10	26.02	0.391	47.58	1.083	0.7854	0.0071
	1.20	23.33	0.269	61.38	1.381	0.8383	0.0053
	1.30	21.43	0.191	78.75	1.736	0.8772	0.0039
	1.40	20.04	0.138	100.28	2.153	0.9057	0.0029
	1.50	19.02	0.103	126.64	2.636	0.9268	0.0021
	1.60	18.30	0.071	158.52	3.189	0.9425	0.0016
	1.70	17.63	0.067	196.69	3.817	0.9543	0.0012
	1.80	17.05	0.059	239.81	4.312	0.9633	0.0009
	1.90	16.67	0.037	295.08	5.527	0.9702	0.0007
2.00	16.50	0.021	357.03	6.195	0.9756	0.0005	

UVIJEK PARALELNO S UKLIJEŠTENIM RUBOM

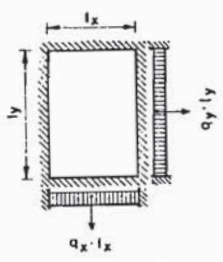
Slučaj 3	$\lambda$	$\varphi_{3x}$	$\Delta$	$\varphi_{3y}$	$\Delta$	$\kappa_{3x}$	$\Delta$
	15	16	17	18	19	20	21
	0.50	136.06		12.48		0.2381	
	0.55	107.42	5.728	14.10	0.323	0.3139	0.0152
	0.60	87.62	3.960	16.12	0.404	0.3932	0.0159
	0.65	73.76	2.772	18.60	0.496	0.4716	0.0157
	0.70	63.69	2.014	21.16	0.603	0.5456	0.0148
	0.75	56.16	1.505	25.24	0.725	0.6127	0.0134
	0.80	50.42	1.148	29.56	0.864	0.6709	0.0116
	0.85	45.97	0.891	34.66	1.021	0.7230	0.0104
	0.90	42.48	0.698	40.65	1.199	0.7664	0.0087
	0.95	39.70	0.555	47.64	1.398	0.8029	0.0073
	1.00	37.47	0.446	55.74	1.620	0.8333	0.0061
	1.10	34.18	0.329	75.33	1.959	0.8798	0.0046
	1.20	31.93	0.225	101.68	2.635	0.9120	0.0032
	1.30	30.34	0.159	134.65	3.296	0.9346	0.0023
	1.40	29.18	0.116	175.88	4.123	0.9505	0.0016
	1.50	28.31	0.087	226.65	5.077	0.9620	0.0012
	1.60	27.64	0.067	288.36	6.171	0.9704	0.0008
	1.70	27.12	0.052	362.50	7.414	0.9766	0.0006
	1.80	26.71	0.041	450.72	8.822	0.9813	0.0005
	1.90	26.37	0.034	555.49	10.377	0.9849	0.0004
2.00	26.09	0.028	675.81	12.132	0.9877	0.0003	

UVIJEK PARALELNO S UKLIJEŠTENIM RUBOM

Slučaj 4	$\lambda$	$\varphi_{4x}$	$\Delta$	$\varphi_{4y}$	$\Delta$	$\kappa_{4x}$	$\Delta$
	22	23	24	25	26	27	28
	0.50	271.75		16.98		0.0588	
	0.55	194.98	6.707	17.84	0.171	0.0838	0.0050
	0.60	145.73	4.414	18.89	0.209	0.1147	0.0062
	0.65	112.92	2.942	20.16	0.254	0.1515	0.0073
	0.70	90.16	2.270	21.65	0.298	0.1936	0.0084
	0.75	73.99	1.676	23.41	0.353	0.2404	0.0093
	0.80	62.18	1.259	25.47	0.411	0.2906	0.0100
	0.85	53.34	1.768	27.84	0.465	0.3430	0.0105
	0.90	46.58	1.352	30.56	0.543	0.3962	0.0106
	0.95	41.52	1.052	33.65	0.619	0.4489	0.0105
	1.00	37.15	0.833	37.15	0.700	0.5000	0.0102
	1.10	31.09	0.606	45.52	0.837	0.5942	0.0094
	1.20	27.01	0.408	56.01	1.063	0.6747	0.0080
	1.30	24.17	0.285	69.02	1.287	0.7407	0.0066
	1.40	22.12	0.204	84.99	1.596	0.7935	0.0053
	1.50	20.62	0.150	104.38	1.940	0.8351	0.0042
	1.60	19.49	0.113	127.72	2.334	0.8676	0.0033
	1.70	18.62	0.087	155.54	2.782	0.8931	0.0025
	1.80	17.95	0.068	188.41	3.287	0.9130	0.0020
	1.90	17.41	0.053	226.93	3.852	0.9287	0.0016
2.00	16.98	0.043	271.75	4.882	0.9412	0.0012	

Slučaj 5	$\lambda$	$\varphi_{5x}$	$\Delta$	$\varphi_{5y}$	$\Delta$	$\kappa_{5x}$	$\Delta$
	29	30	31	32	33	34	35
	0.50	246.42		17.88		0.1111	
	0.55	186.97	11.891	19.12	0.251	0.1547	0.0087
	0.60	138.61	9.671	20.68	0.313	0.2058	0.0102
	0.65	110.30	5.661	22.60	0.384	0.2631	0.0114
	0.70	90.65	3.931	24.92	0.464	0.3244	0.0123
	0.75	76.58	2.814	27.69	0.555	0.3876	0.0126
	0.80	66.24	2.068	30.98	0.658	0.4503	0.0125
	0.85	58.46	1.556	34.84	0.772	0.5108	0.0121
	0.90	52.51	1.191	39.35	0.900	0.5675	0.0114
	0.95	47.86	0.980	44.56	1.043	0.6196	0.0104
	1.00	44.18	0.736	50.57	1.201	0.6667	0.0094
	1.10	38.84	0.535	65.30	1.474	0.7454	0.0079
	1.20	35.27	0.357	84.25	1.895	0.8057	0.0060
	1.30	32.79	0.248	108.24	2.398	0.8510	0.0045
	1.40	31.01	0.178	138.11	2.987	0.8848	0.0038
	1.50	29.71	0.130	174.79	3.669	0.9101	0.0025
	1.60	28.73	0.093	219.29	4.450	0.9291	0.0019
	1.70	27.97	0.075	272.65	5.337	0.9435	0.0014
	1.80	27.38	0.059	336.02	6.337	0.9545	0.0011
	1.90	26.92	0.047	410.58	7.456	0.9631	0.0009
2.00	26.54	0.038	497.61	8.702	0.9697	0.0007	

UVIJEK PARALELNO SA SLOBODNO POLOŽENIM RUBOM

Slučaj 6	$\lambda$	$\varphi_{6x}$	$\Delta$	$\varphi_{6y}$	$\Delta$	$\varphi_{6x}$	$\Delta$
	36	37	38	39	40	41	42
	0.50	436.53		27.28		0.0588	
	0.55	310.15	25.276	28.38	0.220	0.0638	0.0050
	0.60	229.50	16.130	29.74	0.273	0.1147	0.0062
	0.65	175.97	10.706	31.41	0.334	0.1515	0.0073
	0.70	139.24	7.346	33.43	0.404	0.1936	0.0084
	0.75	113.30	5.189	35.85	0.483	0.2404	0.0093
	0.80	94.51	3.757	38.71	0.573	0.2906	0.0100
	0.85	80.60	2.782	42.08	0.673	0.3430	0.0105
	0.90	70.10	2.100	46.00	0.784	0.3962	0.0106
	0.95	62.04	1.614	50.53	0.907	0.4489	0.0105
	1.00	55.74	1.259	55.74	1.043	0.5000	0.0102
	1.10	46.77	0.897	68.48	1.274	0.5942	0.0094
	1.20	40.90	0.588	84.80	1.632	0.6747	0.0080
	1.30	36.89	0.400	105.38	2.057	0.7407	0.0066
	1.40	34.08	0.282	130.92	2.555	0.7935	0.0053
	1.50	32.04	0.204	162.22	3.130	0.8351	0.0042
1.60	30.54	0.151	200.13	3.790	0.8676	0.0033	
1.70	29.40	0.114	245.53	4.540	0.8931	0.0025	
1.80	28.52	0.088	299.38	5.385	0.9130	0.0020	
1.90	27.75	0.077	362.69	6.331	0.9267	0.0016	
2.00	27.28	0.047	436.53	7.384	0.9412	0.0012	

27.3. TABLICE GLATKE ARMATURE

TABLICA 1.

Promjer mm	Površina presjeka u cm <sup>2</sup> za komadu																Masa kg/m	Opseg cm	Promjer mm
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
5	0.20	0.39	0.59	0.79	0.98	1.18	1.37	1.57	1.77	1.96	2.16	2.36	2.55	2.75	2.95	0.154	1.57	5	
6	0.26	0.57	0.85	1.13	1.41	1.70	1.98	2.26	2.55	2.83	3.11	3.39	3.68	3.96	4.24	0.222	1.89	6	
7	0.38	0.77	1.16	1.54	1.92	2.31	2.69	3.08	3.46	3.85	4.23	4.62	5.00	5.39	5.77	0.302	2.20	7	
8	0.50	1.01	1.51	2.01	2.51	3.02	3.52	4.02	4.52	5.03	5.53	6.03	6.54	7.04	7.54	0.395	2.51	8	
9	0.64	1.27	1.91	2.55	3.18	3.82	4.45	5.00	5.73	6.36	7.00	7.63	8.27	8.91	9.54	0.499	2.83	9	
10	0.79	1.57	2.36	3.14	3.93	4.71	5.50	6.20	7.07	7.85	8.64	9.43	10.21	11.00	11.78	0.617	3.14	10	
11	0.95	1.90	2.86	3.80	4.75	5.70	6.65	7.60	8.55	9.50	10.45	11.40	12.35	13.30	14.26	0.746	3.48	11	
12	1.13	2.26	3.39	4.52	5.66	6.79	7.92	9.05	10.18	11.31	12.44	13.57	14.70	15.83	16.97	0.888	3.77	12	
13	1.33	2.66	3.98	5.31	6.64	7.96	9.29	10.62	11.95	13.27	14.60	15.93	17.26	18.58	19.91	1.042	4.06	13	
14	1.54	3.08	4.62	6.16	7.70	9.24	10.78	12.32	13.86	15.39	16.93	18.47	20.01	21.55	23.09	1.208	4.40	14	
15	1.77	3.53	5.30	7.07	8.84	10.60	12.37	14.14	15.91	17.67	19.44	21.21	22.97	24.74	26.51	1.387	4.71	15	
16	2.01	4.02	6.03	8.04	10.05	12.06	14.07	16.09	18.10	20.11	22.12	24.13	26.14	28.15	30.16	1.578	5.03	16	
17	2.27	4.54	6.81	9.08	11.35	13.62	15.89	18.16	20.43	22.70	24.97	27.24	29.51	31.78	34.05	1.782	5.34	17	
18	2.54	5.09	7.63	10.18	12.72	15.27	17.81	20.36	22.90	25.45	27.99	30.54	33.08	35.63	38.17	1.998	5.65	18	
19	2.84	5.67	8.51	11.34	14.18	17.01	19.85	22.68	25.52	28.35	31.19	34.02	36.86	39.69	42.53	2.228	5.97	19	
20	3.14	6.28	9.43	12.57	15.71	18.85	21.99	25.13	28.27	31.42	34.56	37.70	40.84	43.98	47.12	2.468	6.28	20	
22	3.80	7.60	11.40	15.21	19.01	22.81	26.64	30.41	34.21	38.01	41.81	45.62	49.42	53.22	57.02	2.984	6.91	22	
24	4.52	9.05	13.57	18.10	22.62	27.14	31.67	36.19	40.72	45.24	49.76	54.29	58.81	63.34	67.86	3.551	7.54	24	
25	4.91	9.82	14.75	19.64	24.54	29.45	34.36	39.27	44.18	49.09	54.00	58.90	63.81	68.72	73.63	3.853	7.85	25	
26	5.31	10.62	15.93	21.24	26.55	31.86	37.17	42.47	47.78	53.09	58.40	63.71	69.02	74.33	79.64	4.168	8.17	26	
28	6.16	12.32	18.47	24.63	30.79	36.95	43.10	49.26	55.42	61.58	67.73	73.89	80.05	86.21	92.36	4.834	8.80	28	
30	7.07	14.14	21.21	28.27	35.34	42.41	49.48	56.55	63.62	70.69	77.76	84.82	91.89	98.96	106.03	5.549	9.42	30	
32	8.04	16.09	24.13	32.17	40.21	48.26	56.30	64.34	72.38	80.42	88.47	96.51	104.55	112.60	120.64	6.313	10.05	32	
34	9.08	18.16	27.24	36.32	45.40	54.48	63.55	72.63	81.71	90.79	99.87	108.95	118.03	127.11	136.19	7.127	10.68	34	
35	9.62	19.24	28.86	38.48	48.11	57.73	67.35	76.97	86.59	96.21	105.83	115.45	125.07	134.70	144.32	7.553	11.00	35	
36	10.16	20.56	30.84	40.72	50.89	61.07	71.25	81.43	91.61	101.79	111.97	122.15	132.32	142.50	152.69	7.990	11.31	36	
38	11.34	22.88	34.02	45.36	56.71	68.06	79.39	90.73	102.07	113.41	124.75	136.09	147.43	158.77	170.12	8.903	11.94	38	
40	12.57	25.13	37.70	50.37	62.83	75.40	87.97	100.53	113.10	125.66	138.23	150.80	163.37	175.93	188.50	9.885	12.57	40	
42	13.85	27.71	41.56	55.42	69.27	83.13	96.98	110.83	124.68	138.53	152.38	166.23	180.08	193.93	207.78	10.876	13.20	42	
44	15.21	30.41	45.62	60.82	76.03	91.23	106.44	121.65	136.86	152.07	167.28	182.49	197.70	212.91	228.12	11.936	13.82	44	
45	15.90	31.81	47.71	63.62	79.62	95.42	111.32	127.23	143.13	159.04	174.94	190.84	206.74	222.64	238.54	13.048	14.44	45	
46	16.62	33.24	49.66	66.48	83.10	99.71	116.33	132.95	149.57	166.19	182.81	199.43	216.05	232.67	249.29	13.046	14.45	46	
48	18.10	39.27	54.29	72.36	90.48	108.58	126.68	144.71	162.87	180.96	199.06	217.16	235.26	253.36	271.46	14.205	15.08	48	
50	19.63	45.90	58.90	78.54	98.17	117.60	137.43	157.08	176.71	196.35	215.98	235.61	255.24	274.87	294.50	15.413	15.71	50	

TABLICA 2.

Razmak šipaka	Površina presjeka $\pi$ cm <sup>2</sup> na širini ploče od 100 cm								
	Promjer šipke u mm								
	6	7	8	10	12	14	16	18	20
7.0	4.04	5.50	7.18	11.22	16.16	21.99	28.73	36.36	44.87
7.5	3.77	5.13	6.70	10.47	15.08	20.52	26.81	33.93	41.88
8.0	3.53	4.81	6.28	9.82	14.14	19.24	25.14	31.81	39.26
8.5	3.33	4.53	5.91	9.24	13.31	18.11	23.66	29.94	36.95
9.0	3.14	4.28	5.59	8.73	12.57	17.10	22.34	28.28	34.90
9.5	2.98	4.05	5.29	8.27	11.90	16.20	21.17	26.79	33.06
10.0	2.83	3.85	5.03	7.85	11.31	15.39	20.11	25.45	31.41
10.5	2.69	3.67	4.79	7.48	10.77	14.66	19.15	24.24	29.91
11.0	2.57	3.50	4.57	7.14	10.28	13.99	18.28	23.14	28.55
11.5	2.46	3.35	4.37	6.83	9.84	13.39	17.49	22.13	27.31
12.0	2.36	3.21	4.19	6.54	9.42	12.83	16.76	21.21	26.17
12.5	2.26	3.08	4.02	6.28	9.05	12.32	16.09	20.36	25.13
13.0	2.17	2.96	3.87	6.04	8.70	11.84	15.47	19.58	24.16
13.5	2.09	2.85	3.72	5.82	8.38	11.40	14.90	18.85	23.27
14.0	2.02	2.75	3.59	5.61	8.08	11.00	14.36	18.18	22.44
14.5	1.95	2.65	3.47	5.42	7.80	10.62	13.87	17.55	21.66
15.0	1.89	2.57	3.35	5.24	7.54	10.26	13.41	16.97	20.94
15.5	1.82	2.48	3.24	5.07	7.30	9.93	12.97	16.42	20.27
16.0	1.77	2.41	3.14	4.91	7.07	9.62	12.57	15.90	19.64
16.5	1.71	2.33	3.05	4.76	6.85	9.33	12.19	15.42	19.04
17.0	1.66	2.26	2.96	4.62	6.65	9.05	11.83	14.97	18.48
17.5	1.62	2.20	2.87	4.49	6.46	8.79	11.49	14.54	17.95
18.0	1.57	2.14	2.79	4.36	6.28	8.55	11.17	14.14	17.46
18.5	1.53	2.08	2.72	4.25	6.11	8.32	10.87	13.76	16.94
19.0	1.49	2.03	2.65	4.13	5.95	8.10	10.58	13.39	16.54
19.5	1.45	1.97	2.58	4.03	5.80	7.89	10.31	13.05	16.11
20.0	1.41	1.92	2.51	3.93	5.65	7.69	10.05	12.72	15.72

27.4. TABLICA REBRASTE ARMATURE

RA-400/500-1  $\phi$  6, 8, 10, 12, 14  
 RA-400/500-2  $\phi$  6, 8, 10, 12, 14, 16, 19, 22, 25, 28, 32, 36, 40

$\phi$ mm	Površina presjeka u cm <sup>2</sup> za komada																				Masa kg/m	Opseg cm	Promjer mm
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	RA-400-1	RA-400-2						
6	0.28	0.57	0.85	1.13	1.41	1.70	1.98	2.26	2.55	2.83	3.11	3.39	3.66	3.96	4.24	0.230	0.228						
8	0.50	1.01	1.51	2.01	2.51	3.02	3.52	4.02	4.52	5.03	5.53	6.03	6.54	7.04	7.54	0.409	0.405						
10	0.79	1.57	2.36	3.14	3.93	4.71	5.50	6.20	7.07	7.85	8.64	9.42	10.21	11.00	11.78	0.649	0.633						
12	1.13	2.26	3.39	4.52	5.66	6.79	7.92	9.05	10.18	11.31	12.44	13.57	14.70	15.83	16.97	0.920	0.811						
14	1.54	3.08	4.62	6.16	7.70	9.24	10.78	12.32	13.86	15.39	16.93	18.47	20.01	21.55	23.09	1.252	1.242						
16	2.01	4.02	6.03	8.04	10.05	12.06	14.07	16.09	18.10	20.11	22.12	24.13	26.14	28.15	30.18	1.681	1.621						
19	2.84	5.67	8.51	11.34	14.18	17.01	19.85	22.68	25.52	28.35	31.19	34.02	36.86	39.69	42.53	2.288	2.288						
22	3.80	7.60	11.40	15.21	19.01	22.81	26.64	30.41	34.21	38.01	41.81	45.62	49.42	53.22	57.02	3.058	3.058						
25	4.91	9.82	14.73	19.64	24.54	29.45	34.36	39.27	44.18	49.09	54.00	58.90	63.81	68.72	73.63	3.951	3.951						
28	6.16	12.32	18.47	24.63	30.78	36.95	43.10	49.26	55.42	61.58	67.73	73.88	80.05	86.21	92.36	4.956	4.956						
32	8.04	16.09	24.13	32.17	40.21	48.26	56.30	64.34	72.38	80.42	88.47	96.50	104.55	112.60	120.64	6.474	6.474						
36	10.18	20.36	30.54	40.72	50.89	61.07	71.25	81.43	91.61	101.79	111.97	122.15	132.32	142.50	152.68	8.200	8.200						
40	12.57	25.13	37.70	50.27	62.83	75.40	87.97	100.53	113.10	125.66	138.23	150.80	163.36	175.93	188.50	10.117	10.117						
100		50	33.34	25	20	16.67	14.30	12.50	11.11	10	9.10	8.33	7.70	7.14	6.67								

## 27.5. TABLICE MREŽASTE ARMATURE

Standardne mreže uzdužno nosive (tip R) dane su u tablici 1.

TABLICA 1.

Uzdužno nosive mreže (R mreže)									
Oznaka mreže	Promjer žica (mm)		Razmak žica (mm)		Površina presjeka žica (cm <sup>2</sup> /m)		Duljina mreže (mm)	Masa kg/m <sup>2</sup>	Masa kg/kom (tolerancija 1%)
	uzdužne D	poprečne d	uzdužno a	poprečno t	uzdužnih	poprečnih			
R-131	5.0	4.0	150	250	1.31	0.50	5000	1.52	16.34
R-139	4.2	4.2	100	250	1.39	0.55	5000	1.53	16.83
R-166	4.6	4.2	100	250	1.66	0.55	5000	1.74	19.14
R-196	5.0	4.2	100	250	1.96	0.55	5000	1.98	21.89
R-221	6.5	4.6	150	250	2.21	0.66	6000	2.27	30.57
R-238	5.5	4.2	100	250	2.38	0.55	6000	2.31	30.61
R-283	6.0	4.2	100	250	2.83	0.55	6000	2.66	35.23
R-335	8.0	5.0	150	250	3.35	0.78	6000	3.41	43.99
R-378	8.5	5.0	150	250	3.78	0.78	6000	3.77	48.63
R-385	7.0	5.0	100	250	3.85	0.78	6000	3.64	48.30
R-424	9.0	6.0	150	250	4.24	1.13	6000	4.22	57.02
R-503	8.0	6.0	100	250	5.03	1.13	6000	4.84	64.21
R-524	10.0	6.0	150	250	5.24	1.13	6000	5.24	67.60
R-636	9.0	6.0	100	250	6.36	1.13	6000	5.88	78.07
R-785	10.0	6.0	100	250	7.85	1.13	6000	7.06	93.78
R-1130	12.0	8.0	100	250	11.30	2.01	6000	10.46	138.98

l - duljina armaturne mreže

b - širina armaturne mreže

x<sub>1</sub>, x<sub>2</sub> - prepusti uzdužnih žica preko krajnjih poprečnih žica

y<sub>1</sub>, y<sub>2</sub> - prepusti poprečnih žica preko krajnjih uzdužnih žica

$$10 \text{ mm} \leq x_1, x_2 \leq \frac{t}{2}$$

$$10 \text{ mm} \leq y_1, y_2 \leq \frac{a}{2}$$

Širina za sve R mreže je 2150 mm.

Standardne mreže obostrano nosive (tip Q) dane su u tablici 2.

TABLICA 2.

Oznaka mreže	Promjer žice (mm)		Razmak žica (mm)		Površina presjeka žica (cm <sup>2</sup> /m)		Duljina mreže (mm)	Masa kg/m <sup>2</sup>	Masa kg/kom (sa 1% tolerancije)
	uzdužne D	poprečne d	uzdužno a	poprečno t	uzdužnih	poprečnih			
Q-131	5.0	5.0	150	150	1.31	1.31	5100	2.12	23.25
Q-188	6.0	6.0	150	150	1.88	1.88	5100	3.05	33.44
Q-221	6.5	6.5	150	150	2.21	2.21	5100	3.60	39.47
Q-257	7.0	7.0	150	150	2.57	2.57	5100	4.16	45.61
Q-283	6.0	6.0	100	100	2.83	2.83	5100	4.44	49.68
Q-335	8.0	8.0	150	150	3.35	3.35	5100	5.44	59.65
Q-503	8.0	8.0	100	100	5.03	5.03	5100	7.90	88.49
Q-785	10.0	10.0	100	100	7.85	7.85	5100	12.34	138.18
Q-1130	12.0	12.0	100	100	11.30	11.30	5100	17.76	198.95

$$10 \text{ mm} \leq x_1, x_2 \leq \frac{t}{2}$$

$$10 \text{ mm} \leq y_1, y_2 \leq \frac{a}{2}$$

Širina za sve mreže 2150 mm.

Standardne mreže za zidove (tip R<sub>x</sub>) dane su u tablici 3.

TABLICA 3.

Oznaka mreže	Promjer žica (mm)		Razmak žica (mm)		Površina presjeka žica (mm)		Duljina mreže (mm)	Masa kg/m <sup>2</sup>	Prepusti (mm)		Masa kg/kom (sa 1% tolerancije)
	uzdužne D	poprečne d	uzdužno a	poprečno t	uzdužnih	poprečnih			x <sub>1</sub>	x <sub>2</sub>	
R <sub>x</sub> -283	6.0	4.2	100	250	2.83	0.55	3400	2.66	50	850	19.34
R <sub>x</sub> -335	8.0	5.0	150	250	3.35	0.78	3400	3.25	50	850	24.02

$$10 \text{ mm} \leq y_1, y_2 \leq \frac{a}{2}$$

Širine za sve R<sub>x</sub> mreže je 2150 mm.

27.6. TABLICA REBRASTE ARMATURE PREMA EN 10080

Nazivni promjer $\phi$ (mm)	Vrste čelika						Mreže		Nazivni presjek mm <sup>2</sup>	Nazivna masa kg/m
	Šipke 1)		Kolutovi		B 500 H	B 500 N	B 500 H	B 500 N		
	B 500 H	B 500 N	B 500 H	B 500 N						
4.0					x 2)			x	12.6	0.099
4.5					x 2)			x	15.9	0.125
5.0					x 2)			x	19.6	0.154
5.5					x 2)			x	23.8	0.187
6.0					x			x	28.3	0.222
6.5					x 2)			x	33.2	0.260
7.0					x 2)			x	38.5	0.302
7.5					x 2)			x	44.2	0.347
8.0					x			x	50.3	0.395
8.5					x 2)			x	56.7	0.445
9.0					x 2)			x	63.3	0.499
9.5					x 2)			x	70.9	0.556
10.0					x			x	78.5	0.617
10.5					x 2)			x	86.6	0.680
11.0					x 2)			x	95.0	0.746
11.5					x			x	103	0.815
12.0					x			x	113	0.888
(14.0) 3)					(x)			(x)	154	1.21
16.0					x			x	201	1.58
20.0					x			x	314	2.47
25.0					x			x	491	3.85
(28.0) 3)					(x)			(x)	616	4.83
32.0					x			x	804	6.31
40.0					x			x	1256	9.86

1) Odrezano iz koluta i izravnavato  
 2) Samo za izradu zavarenih mreža  
 3) Ne preporuča se

28. OZNAKE

U ovoj knjizi rabljene su oznake koje se većinom slažu s internacionalnim oznakama za betonske konstrukcije što ih predlaže ISO 1000 i Eurocode 2, te manjim dijelom stare oznake u poglavljima koja se ne obrađuju Eurocodeom 2 (Metoda dopuštenih napona). Oznake koje su ovdje izostavljene razjašnjene su u tekstu gdje se pojavljuju.

Glavna Specij. ZNAČENJE  
 oznaka oznaka

- A površina, kapilarna konstanta
- $A_c$  površina betona
- $A_{cid}$  idealna površina betona
- $A_{cc}$  površina betona unutar spirale
- $A_{co}$  površina djelovanja lokalnog tlaka
- $A_{ct}$  površina rasprostiranja tlaka
- $A'_c$  tlačna površina betona
- $A_k$  površina unutar srednje konture
- $A_s$  površina armature
- $A_{s1}$  površina vlačne armature
- $A_{s2}$  površina tlačne armature
- $A_{s1,min}$  minimalna površina vlačne armature
- $A_{st}$  ukupna površina armature u presjeku
- $A_{ss}$  površina spirala (volumen po jedinici dužine)
- $A_{sw}$  površina poprečne armature (spone, kose šipke)
- $A_v$  površina V-dijagrama
- $A_d$  računaska vrijednost za slučajno djelovanje
- $A_{ssl}$  površina spirale
- $A_{sl}$  površina uzdužne armature
- $A_{s,prov}$  postojeća površina armature
- $A_{s,req}$  potrebna površina armature
- $A_q$  rad vanjskih sila
- $A_{ct}$  vlačna površina prejeka
- $A_i$  rad unutrašnjih sila
- $A_{sv}$  površina armature smještene u vutu
- $A_{sc}$  površina armature u čvoru okvira
- $A_{sk}$  površina kose armature
- B širina trokutastog presjeka u težištu vlačne armature
- C konstanta