

Energijska učinkovitost stavb

[← Nazaj](#)

Po Pravilniku o učinkoviti rabi energije v stavbah (Uradni list RS, št. 70/22 z dne 20. 5. 2022) in Pravilniku o spremembah Pravilnika o učinkoviti rabi energije v stavbah (Uradni list RS, št. 161/22 z dne 23. 12. 2022).

Investitor: Janez Novak
Mestna cesta 12, 1000 Ljubljana

Naziv projekta: **Testni Projekt**

Izdelovalec elaborata: Franc Pavlin, udia, ZAPS 1122

Vodja projektiranja: Franc Pavlin, udia, ZAPS 1122

Številka elaborata: 2023-01
Datum elaborata: april 2023

Podatki o projektu "Testni Projekt"

[Analiza GF](#) [Izkaz GF](#) [Analiza SNES](#) [Izkaz SNES](#)

[Analiza ovoja cone "Cona1"](#) [Analiza cone "Cona1"](#)

[TSS "TC"](#) [TSS "Prezracevanje"](#) [TSS "Razsvetljava"](#)

Naziv projekta		Testni Projekt	
Ulica, kraj		Mestna cesta 12	
Katastrska občina		Ljubljana	
Parcele		123/4	
GK koordinate kraja	GKX		116215
	GKY		469925

Analiza Projekta "Testni Projekt"

[← Nazaj](#)

Bruto ogrevana prostornina stavbe	V_e	672,0	m ³
Površina toplotnega ovoja stavbe	A_{ovoj}	680,0	m ²
Kondicionirana površina stavbe	A_{use}	160,0	m ²
Transp. površina v toplotnem ovojju stavbe	A_{trans}	29,19	m ²
Faktor oblike stavbe	f_0	1,012	m ⁻¹
Razmerje transp./celotne površine ovoja	z	0,043	-
Spec. koef. transm. topl. izgub	H'_{tr}	0,212	W/m ² K
	$X_{H'tr} \times H'_{tr,dov}$	0,326	W/m ² K
	$X_{H'tr}$	1,000	W/m ² K
Potrebna toplota za ogrevanje stavbe	$Q_{H,nd,an}$	4666	kWh/an
Potrebna toplota za hlajenje stavbe	$Q_{C,nd,an}$	65	kWh/an
Potrebna toplota za pripravo TSV	$Q_{W,nd,an}$	1345	kWh/an
Potrebna energija za vlaženje zraka	$Q_{HU,nd,an}$	0	kWh/an
Potrebna energija za razvlaževanje zraka	$Q_{DHU,nd,an}$	0	kWh/an
Dovedena energija za razsvetljavo	$E_{L,del,an}$	1238	kWh/an
Specifična potrebna toplota za ogrevanje	$Q'_{H,nd,an}$	29,2	kWh/m ² an

Analiza netransparentne konstrukcije

Naziv: Fasadni Zid
Tip: Zunanje stene
U= 0.142 W/m2K U_{max} = 0.180 W/m2K Ustreza
 f_{Rsi} = 0.982 $f_{Rsi,min}$ = 0.557 Ustreza

	d [m]	λ [W/mK]	ρ [kg/m ³]	c_p [J/kg K]	μ [-]	R [m ² K/W]	s_d [m]	
Zid	0,250	0,610	1400	920		6,0	0,410	1,500
EPS Grafit	0,200	0,031	15	1260		25,0	6,452	5,000
Fasada	0,010	0,700	1850	1050		15,0	0,014	0,150

Prikaz temperature v konstrukciji

```
const ctx = document.getElementById('myChart'); var temp = [ { "x": -0.050000, "y": 20.000000 },  
{ "x": 0.000000, "y": 19.612532 }, { "x": 0.125000, "y": 19.001768 }, { "x": 0.250000, "y": 18.391004 },  
{ "x": 0.257692, "y": 17.651419 }, { "x": 0.265385, "y": 16.911835 }, { "x": 0.273077, "y": 16.172250 },  
{ "x": 0.280769, "y": 15.432665 }, { "x": 0.288462, "y": 14.693080 }, { "x": 0.296154, "y": 13.953496 },  
{ "x": 0.303846, "y": 13.213911 }, { "x": 0.311538, "y": 12.474326 }, { "x": 0.319231, "y": 11.734741 },  
{ "x": 0.326923, "y": 10.995156 }, { "x": 0.334615, "y": 10.255572 }, { "x": 0.342308, "y": 9.515987 },  
{ "x": 0.350000, "y": 8.776402 }, { "x": 0.357692, "y": 8.036817 }, { "x": 0.365385, "y": 7.297233 }, { "x":  
0.373077, "y": 6.557648 }, { "x": 0.380769, "y": 5.818063 }, { "x": 0.388462, "y": 5.078478 }, { "x":  
0.396154, "y": 4.338893 }, { "x": 0.403846, "y": 3.599309 }, { "x": 0.411538, "y": 2.859724 }, { "x":  
0.419231, "y": 2.120139 }, { "x": 0.426923, "y": 1.380554 }, { "x": 0.434615, "y": 0.640970 }, { "x":  
0.442308, "y": -0.098615 }, { "x": 0.450000, "y": -0.838200 }, { "x": 0.460000, "y": -0.880779 }, { "x":  
0.460000, "y": -0.880779 }, { "x": 0.510000, "y": -1.000000 } ]; new Chart(ctx, { "type": 'scatter',  
"data": { "datasets": [ { "label": "Temperatura v konstrukciji", "data": temp, "fill": false, "borderColor":  
"#fa4444", "lineTension": 0.1, showLine: true } ] }, plugins: [ { beforeDraw: chart => { var ctx =  
chart.ctx; var xAxis = chart.scales.x; var yAxis = chart.scales.y; ctx.fillStyle = "lightgray";  
ctx.rect(xAxis.getPixelForValue(temp[1].x), yAxis.top, xAxis.getPixelForValue(temp[temp.length -  
2].x) - xAxis.getPixelForValue(temp[1].x), yAxis.bottom - yAxis.top); ctx.fill(); temp.forEach((value,  
index) => { if (index > 0 && index < temp.length - 2) {  
Prikaz tlaka in kondenzacije
```

	d [cm]	λ [W/mK]	R [m ² K/W]	s_d [m]	T [°C]	p_{de} [Pa]	p_{nas} [Pa]	g_d [g/m ² m]	M_a [g/m ²]
Prostor					20	1028	2337		
Notr. površina					19.6	1028	2281		
Zid.1	12.5	0.61	0.205	0.75	19	964.3	2196.4		
Zid.2	12.5	0.61	0.205	0.75	18.4	900.3	2114.1		
EPS Grafit.1	0.8	0.031	0.248	0.1923	17.7	883.9	2018.1		
EPS Grafit.2	0.8	0.031	0.248	0.1923	16.9	867.5	1925.9		
EPS Grafit.3	0.8	0.031	0.248	0.1923	16.2	851.1	1837.4		
EPS Grafit.4	0.8	0.031	0.248	0.1923	15.4	834.6	1752.5		
EPS Grafit.5	0.8	0.031	0.248	0.1923	14.7	818.2	1671		
EPS Grafit.6	0.8	0.031	0.248	0.1923	14	801.8	1592.9		
EPS Grafit.7	0.8	0.031	0.248	0.1923	13.2	785.4	1518		
EPS Grafit.8	0.8	0.031	0.248	0.1923	12.5	769	1446.3		
EPS Grafit.9	0.8	0.031	0.248	0.1923	11.7	752.6	1377.5		
EPS Grafit.10	0.8	0.031	0.248	0.1923	11	736.2	1311.6		
EPS Grafit.11	0.8	0.031	0.248	0.1923	10.3	719.8	1248.5		

	d [cm]	λ [W/mK]	R [m ² K/W]	s _d [m]	T [°C]	p _{de} [Pa]	p _{nas} [Pa]	g _d [g/m ² m]	M _a [g/m ²]
EPS	0.8	0.031	0.248	0.1923	9.5	703.4	1188.1		
Grafit.12									
EPS	0.8	0.031	0.248	0.1923	8.8	687	1130.2		
Grafit.13									
EPS	0.8	0.031	0.248	0.1923	8	670.6	1074.9		
Grafit.14									
EPS	0.8	0.031	0.248	0.1923	7.3	654.2	1022		
Grafit.15									
EPS	0.8	0.031	0.248	0.1923	6.6	637.8	971.3		
Grafit.16									
EPS	0.8	0.031	0.248	0.1923	5.8	621.3	922.9		
Grafit.17									
EPS	0.8	0.031	0.248	0.1923	5.1	604.9	876.7		
Grafit.18									
EPS	0.8	0.031	0.248	0.1923	4.3	588.5	832.4		
Grafit.19									
EPS	0.8	0.031	0.248	0.1923	3.6	572.1	790.2		
Grafit.20									
EPS	0.8	0.031	0.248	0.1923	2.9	555.7	749.9		
Grafit.21									
EPS	0.8	0.031	0.248	0.1923	2.1	539.3	711.4		
Grafit.22									
EPS	0.8	0.031	0.248	0.1923	1.4	522.9	674.6		
Grafit.23									
EPS	0.8	0.031	0.248	0.1923	0.6	506.5	639.6		
Grafit.24									
EPS	0.8	0.031	0.248	0.1923	-0.1	490.1	605.6		
Grafit.25									
EPS	0.8	0.031	0.248	0.1923	-0.8	473.7	569.6		
Grafit.26									
Fasada	1	0.7	0.014	0.15	-0.9	460.9	567.6		
Zun.					-0.9	461	568		
površina									
Okolica					-1	461	562		

```

const ctx2 = document.getElementById('myChart2'); ////////////////////////////////////////////////// var
nasicenTlak = [ {"x": -0.332500, "y":2336.951144}, {"x": 0.000000, "y":2281.485971}, {"x":
0.750000, "y":2196.393459}, {"x": 1.500000, "y":2114.090711}, {"x": 1.692308, "y":2018.051830},
{"x": 1.884615, "y":1925.854747}, {"x": 2.076923, "y":1837.368328}, {"x": 2.269231,
"y":1752.465063}, {"x": 2.461538, "y":1671.020984}, {"x": 2.653846, "y":1592.915602}, {"x":
2.846154, "y":1518.031831}, {"x": 3.038462, "y":1446.255919}, {"x": 3.230769, "y":1377.477383},
{"x": 3.423077, "y":1311.588933}, {"x": 3.615385, "y":1248.486412}, {"x": 3.807692,
"y":1188.068722}, {"x": 4.000000, "y":1130.237764}, {"x": 4.192308, "y":1074.898369}, {"x":
4.384615, "y":1021.958233}, {"x": 4.576923, "y":971.327853}, {"x": 4.769231, "y":922.920467},
{"x": 4.961538, "y":876.651987}, {"x": 5.153846, "y":832.440942}, {"x": 5.346154,
"y":790.208413}, {"x": 5.538462, "y":749.877974}, {"x": 5.730769, "y":711.375636}, {"x":
5.923077, "y":674.629784}, {"x": 6.115385, "y":639.571122}, {"x": 6.307692, "y":605.557910},
{"x": 6.500000, "y":569.636730}, {"x": 6.650000, "y":567.628902}, {"x": 6.650000,
"y":567.628902}, {"x": 6.650000, "y":562.041157}, ], ////////////////////////////////////////////////// var
dejanskiTlak = [ {"x": 0, "y": 1028.258503273}, {"x": 6.65, "y": 460.87374857031} ];
//////////////////////////////////// var dejanskiTlakTocke = [ {"x": 0.000000, "y":1028.258503},
{"x": 0.750000, "y":964.267741}, {"x": 1.500000, "y":900.276980}, {"x": 1.692308,
"y":883.869092}, {"x": 1.884615, "y":867.461204}, {"x": 2.076923, "y":851.053317}, {"x":
2.269231, "y":834.645429}, {"x": 2.461538, "y":818.237541}, {"x": 2.653846, "y":801.829654},
{"x": 2.846154, "y":785.421766}, {"x": 3.038462, "y":769.013879}, {"x": 3.230769,
"y":752.605991}, {"x": 3.423077, "y":736.198103}, {"x": 3.615385, "y":719.790216}, {"x":
3.807692, "y":703.382328}, {"x": 4.000000, "y":686.974440}, {"x": 4.192308, "y":670.566553},
{"x": 4.384615, "y":654.158665}, {"x": 4.576923, "y":637.750777}, {"x": 4.769231,
"y":621.342890}, {"x": 4.961538, "y":604.935002}, {"x": 5.153846, "y":588.527114}, {"x":
5.346154, "y":572.119227}, {"x": 5.538462, "y":555.711339}, {"x": 5.730769, "y":539.303452},
{"x": 5.923077, "y":522.895564}, {"x": 6.115385, "y":506.487676}, {"x": 6.307692,
"y":490.079789}, {"x": 6.500000, "y":473.671901}, {"x": 6.650000, "y":460.873749}, {"x":
6.650000, "y":460.873749}, ], new Chart(ctx2, { "type": 'scatter', "data": { "datasets": [ {

```

```

"label":"Nasičen Tlak", "data": nasicenTlak, "fill":false, "borderColor":"rgb(75, 192, 192)", showLine:
true }, { "label":"Dejanski Tlak", "data": dejanskiTlak, "showLine": true }, { "label":"Dejanski Tlak
Tocke", "data": dejanskiTlakTocke, "borderColor":"rgb(75, 50, 20)", "showLine": true } ] }, "plugins":
[{ beforeDraw: chart => { var ctx = chart.ctx; var xAxis = chart.scales.x; var yAxis = chart.scales.y;
ctx.fillStyle = "lightgray"; ctx.rect(xAxis.getPixelForValue(nasicenTlak[1].x), yAxis.top,
xAxis.getPixelForValue(nasicenTlak[nasicenTlak.length - 2].x) -
xAxis.getPixelForValue(nasicenTlak[1].x), yAxis.bottom-yAxis.top); ctx.fill();
nasicenTlak.forEach((value, index) => { if (index > 0 && index < nasicenTlak.length - 1) { var x =
xAxis.getPixelForValue(nasicenTlak[index].x); var yTop =
yAxis.getPixelForValue(nasicenTlak[index].y); ctx.save(); ctx.strokeStyle = '#404040';
ctx.beginPath(); ctx.moveTo(x, yAxis.bottom); ctx.lineTo(x, yAxis.top); ctx.stroke(); ctx.restore(); }
}); } }], "options": { "scales": { x: { type: "linear", position: "bottom", min: -0.10, max: 6.65 + 0.1 }
}, "plugins": { zoom: { zoom: { wheel: { enabled: true, }, pinch: { enabled: true }, mode: 'x', }, pan:
{ enabled: true, mode: 'x', }, } } } } });

```

Analiza netransparentne konstrukcije

Naziv: Temeljna plošča
Tip: Tla na terenu pri ploskovnem gretju
U= 0.182 W/m2K U_{max}= 0.300 W/m2K Ustreza
f_{Rsi}= 1.000 f_{Rsi,min}= 0.557 Ustreza

	d [m]	λ [W/mK]	ρ [kg/m ³]	c _p [J/kg K]	μ [-]	R [m ² K/W]	s _d [m]	
Les	0,010	0,210	800	2510		60,0	0,048	0,600
Estrih	0,050	0,930	1800	960		15,0	0,054	0,750
EPS 100	0,080	0,039	15	1260		25,0	2,051	2,000
Beton	0,300	2,040	2400	960		60,0	0,147	18,000
XPS	0,120	0,038	33	1500		120,0	3,158	14,400

Prikaz temperature v konstrukciji

```
const ctx = document.getElementById('myChart'); var temp = [ { "x": -0.050000, "y":20.000000},  
{ "x": 0.000000, "y":20.000000}, { "x": 0.010000, "y":19.818103}, { "x": 0.060000, "y":19.612736},  
{ "x": 0.068889, "y":18.742118}, { "x": 0.077778, "y":17.871500}, { "x": 0.086667, "y":17.000882},  
{ "x": 0.095556, "y":16.130264}, { "x": 0.104444, "y":15.259646}, { "x": 0.113333, "y":14.389028},  
{ "x": 0.122222, "y":13.518410}, { "x": 0.131111, "y":12.647792}, { "x": 0.140000, "y":11.777174},  
{ "x": 0.440000, "y":11.215434}, { "x": 0.449231, "y":10.287538}, { "x": 0.458462, "y":9.359643},  
{ "x": 0.467692, "y":8.431747}, { "x": 0.476923, "y":7.503852}, { "x": 0.486154, "y":6.575957}, { "x":  
0.495385, "y":5.648061}, { "x": 0.504615, "y":4.720166}, { "x": 0.513846, "y":3.792270}, { "x":  
0.523077, "y":2.864375}, { "x": 0.532308, "y":1.936480}, { "x": 0.541538, "y":1.008584}, { "x":  
0.550769, "y":0.080689}, { "x": 0.560000, "y":-0.847207}, { "x": 0.560000, "y":-0.847207}, { "x":  
0.610000, "y":-1.000000} ]; new Chart(ctx, { "type": 'scatter', "data": { "datasets": [ {  
"label": "Temperatura v konstrukciji", "data": temp, "fill": false, "borderColor": "#fa4444",  
"lineTension": 0.1, showLine: true } ] }, plugins: [{ beforeDraw: chart => { var ctx = chart.ctx; var  
xAxis = chart.scales.x; var yAxis = chart.scales.y; ctx.fillStyle = "lightgray";  
ctx.rect(xAxis.getPixelForValue(temp[1].x), yAxis.top, xAxis.getPixelForValue(temp[temp.length -  
2].x) - xAxis.getPixelForValue(temp[1].x), yAxis.bottom-yAxis.top); ctx.fill(); temp.forEach((value,  
index) => { if (index > 0 && index
```

	d [cm]	λ [W/mK]	R [m ² K/W]	s _d [m]	T [°C]	p _{de} [Pa]	p _{nas} [Pa]	g _d [g/m ² m]	M _a [g/m ²]
Prostor					20	1028	2337		
Notr. površina					20	1028	2337		
Les	1	0.21	0.048	0.6	19.8	1018.7	2310.8		
Estrih	5	0.93	0.054	0.75	19.6	1006.8	2281.5		
EPS 100.1	0.9	0.039	0.228	0.2222	18.7	1003.3	2161.1		
EPS 100.2	0.9	0.039	0.228	0.2222	17.9	999.8	2046.2		
EPS 100.3	0.9	0.039	0.228	0.2222	17	996.3	1936.8		
EPS 100.4	0.9	0.039	0.228	0.2222	16.1	992.7	1832.5		
EPS 100.5	0.9	0.039	0.228	0.2222	15.3	989.2	1733.1		
EPS 100.6	0.9	0.039	0.228	0.2222	14.4	985.7	1638.5		
EPS 100.7	0.9	0.039	0.228	0.2222	13.5	982.1	1548.5		
EPS 100.8	0.9	0.039	0.228	0.2222	12.6	978.6	1462.8		
EPS 100.9	0.9	0.039	0.228	0.2222	11.8	975.1	1381.3		
Beton	30	2.04	0.147	18	11.2	689.4	1330.9		
XPS.1	0.9	0.038	0.243	1.1077	10.3	671.8	1251.2		
XPS.2	0.9	0.038	0.243	1.1077	9.4	654.3	1175.6		
XPS.3	0.9	0.038	0.243	1.1077	8.4	636.7	1104.1		

	d [cm]	λ [W/mK]	R [m ² K/W]	s _d [m]	T [°C]	p _{de} [Pa]	p _{nas} [Pa]	g _d [g/m ² m]	M _a [g/m ²]
XPS.4	0.9	0.038	0.243	1.1077	7.5	619.1	1036.5		
XPS.5	0.9	0.038	0.243	1.1077	6.6	601.5	972.6		
XPS.6	0.9	0.038	0.243	1.1077	5.6	583.9	912.1		
XPS.7	0.9	0.038	0.243	1.1077	4.7	566.4	855		
XPS.8	0.9	0.038	0.243	1.1077	3.8	548.8	801		
XPS.9	0.9	0.038	0.243	1.1077	2.9	531.2	750.1		
XPS.10	0.9	0.038	0.243	1.1077	1.9	513.6	702.1		
XPS.11	0.9	0.038	0.243	1.1077	1	496	656.8		
XPS.12	0.9	0.038	0.243	1.1077	0.1	478.5	614.1		
XPS.13	0.9	0.038	0.243	1.1077	-0.8	460.9	569.2		
Zun. površina					-0.8	461	569		
Okolica					-1	461	562		

```

const ctx2 = document.getElementById('myChart2'); ////////////////////////////////////////////////// var
nasicenTlak = [ { "x": -1.787500, "y":2336.951144}, { "x": 0.000000, "y":2336.951144}, { "x":
0.600000, "y":2310.767915}, { "x": 1.350000, "y":2281.514864}, { "x": 1.572222, "y":2161.068248},
{ "x": 1.794444, "y":2046.222845}, { "x": 2.016667, "y":1936.756365}, { "x": 2.238889,
"y":1832.453646}, { "x": 2.461111, "y":1733.106491}, { "x": 2.683333, "y":1638.513508}, { "x":
2.905556, "y":1548.479946}, { "x": 3.127778, "y":1462.817536}, { "x": 3.350000, "y":1381.344337},
{ "x": 3.572222, "y":1300.211538}, { "x": 3.794444, "y":1228.801040668}, { "x": 4.016667, "y":1157.26888462},
{ "x": 4.238889, "y":1085.72688462}, { "x": 4.461111, "y":1014.18488462}, { "x": 4.683333, "y":942.64288462},
{ "x": 4.905556, "y":871.10088462}, { "x": 5.127778, "y":800.55888462}, { "x": 5.350000, "y":729.01688462},
{ "x": 5.572222, "y":657.47488462}, { "x": 5.794444, "y":585.93288462}, { "x": 6.016667, "y":514.39088462},
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Analiza netransparentne konstrukcije

Naziv: Strop
Tip: Strop proti terenu
U= 0.111 W/m2K $U_{max}= 0.350$ W/m2K Ustreza
 $f_{Rsi}= 0.989$ $f_{Rsi,min}= 0.557$ Ustreza

	d [m]	λ [W/mK]	ρ [kg/m ³]	c_p [J/kg K]	μ [-]	R [m ² K/W]	s_d [m]	
Beton	0,150	2,040	2400	960		60,0	0,074	9,000
Steklena volna	0,300	0,034	23	1030		1,0	8,824	0,300

Prikaz temperature v konstrukciji

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	d [cm]	λ [W/mK]	R [m ² K/W]	s_d [m]	T [°C]	p_{de} [Pa]	p_{nas} [Pa]	g_c [g/m ² m]	M_a [g/m ²]
Prostor					20	1028	2337		
Notr. površina					19.8	1028	2304		
Beton	15	2.04	0.074	9	19.6	479.2	2279.3		
Steklena volna.1	0.8	0.034	0.245	0.0083	19	478.7	2199.9		
Steklena volna.2	0.8	0.034	0.245	0.0083	18.5	478.2	2122.9		
Steklena volna.3	0.8	0.034	0.245	0.0083	17.9	477.7	2048.4		
Steklena volna.4	0.8	0.034	0.245	0.0083	17.3	477.1	1976.1		
Steklena volna.5	0.8	0.034	0.245	0.0083	16.7	476.6	1906.1		
Steklena volna.6	0.8	0.034	0.245	0.0083	16.2	476.1	1838.2		

	d [cm]	λ [W/mK]	R [m ² K/W]	s _d [m]	T [°C]	p _{dej} [Pa]	p _{nas} [Pa]	g _d [g/m ² m]	M _a [g/m ²]
Steklena volna.7	0.8	0.034	0.245	0.0083	15.6	475.6	1772.5		
Steklena volna.8	0.8	0.034	0.245	0.0083	15	475.1	1708.8		
Steklena volna.9	0.8	0.034	0.245	0.0083	14.5	474.6	1647.2		
Steklena volna.10	0.8	0.034	0.245	0.0083	13.9	474.1	1587.5		
Steklena volna.11	0.8	0.034	0.245	0.0083	13.3	473.6	1529.7		
Steklena volna.12	0.8	0.034	0.245	0.0083	12.8	473.1	1473.8		
Steklena volna.13	0.8	0.034	0.245	0.0083	12.2	472.6	1419.7		
Steklena volna.14	0.8	0.034	0.245	0.0083	11.6	472.1	1367.3		
Steklena volna.15	0.8	0.034	0.245	0.0083	11.1	471.6	1316.7		
Steklena volna.16	0.8	0.034	0.245	0.0083	10.5	471	1267.7		
Steklena volna.17	0.8	0.034	0.245	0.0083	9.9	470.5	1220.3		
Steklena volna.18	0.8	0.034	0.245	0.0083	9.3	470	1174.5		
Steklena volna.19	0.8	0.034	0.245	0.0083	8.8	469.5	1130.2		
Steklena volna.20	0.8	0.034	0.245	0.0083	8.2	469	1087.3		
Steklena volna.21	0.8	0.034	0.245	0.0083	7.6	468.5	1045.9		
Steklena volna.22	0.8	0.034	0.245	0.0083	7.1	468	1005.9		
Steklena volna.23	0.8	0.034	0.245	0.0083	6.5	467.5	967.3		
Steklena volna.24	0.8	0.034	0.245	0.0083	5.9	467	929.9		
Steklena volna.25	0.8	0.034	0.245	0.0083	5.4	466.5	893.9		
Steklena volna.26	0.8	0.034	0.245	0.0083	4.8	466	859.1		
Steklena volna.27	0.8	0.034	0.245	0.0083	4.2	465.4	825.5		
Steklena volna.28	0.8	0.034	0.245	0.0083	3.6	464.9	793		
Steklena volna.29	0.8	0.034	0.245	0.0083	3.1	464.4	761.7		
Steklena volna.30	0.8	0.034	0.245	0.0083	2.5	463.9	731.5		
Steklena volna.31	0.8	0.034	0.245	0.0083	1.9	463.4	702.3		
Steklena volna.32	0.8	0.034	0.245	0.0083	1.4	462.9	674.2		
Steklena volna.33	0.8	0.034	0.245	0.0083	0.8	462.4	647		
Steklena volna.34	0.8	0.034	0.245	0.0083	0.2	461.9	620.9		
Steklena volna.35	0.8	0.034	0.245	0.0083	-0.3	461.4	593.7		
Steklena volna.36	0.8	0.034	0.245	0.0083	-0.9	460.9	566.4		
Zun. površina					-0.9	461	566		
Okolica					-1	461	562		

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yAxis.getPixelForValue(nasicenTlak[index].y); ctx.save(); ctx.strokeStyle = '#404040';
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```

Ovoj cone "Ogrevana cona"

[← Nazaj](#)

Zaporedna št. konstrukcije		Z1	Tp1	Ts1	V1	O1	O1	O1	O1
Št. enakih		1	1	1	1	1	3	2	2
Orientacija		S			S	V	J	V	S
Naklon		° 90	0	0	90	90	90	90	90
Toplotna prehodnost U		W/m²K	0,142	0,125	0,111	1,000	0,683	0,734	0,820
Površina A		m²	243,0	200,0	200,0	3,0	15,0	5,0	1,0
Faktor b			1,00	1,30	1,00	1,00	1,00	1,00	1,00
U×A×b		W/K	34,5	32,5	22,1	3,0	10,2	3,7	0,8
d _f		m							

Faktor senčenja okoliških ovir F _{sh,glob,ov,m}									
jan	1,000	1,000	1,000	1,000	0,989	0,959	0,956	1,000	
feb	1,000	1,000	1,000	1,000	0,984	0,936	0,938	1,000	
mar	1,000	1,000	1,000	1,000	0,982	0,913	0,938	1,000	
apr	1,000	1,000	1,000	0,993	0,980	0,895	0,937	0,994	
maj	1,000	1,000	1,000	0,964	0,978	0,888	0,937	0,978	
jun	1,000	1,000	1,000	0,945	0,793	0,895	0,939	0,971	
jul	1,000	1,000	1,000	0,953	0,788	0,889	0,937	0,974	
avg	1,000	1,000	1,000	0,984	0,799	0,887	0,935	0,988	
sep	1,000	1,000	1,000	1,000	0,843	0,908	0,943	1,000	
okt	1,000	1,000	1,000	1,000	0,986	0,930	0,948	1,000	
nov	1,000	1,000	1,000	1,000	0,987	0,956	0,949	1,000	
dec	1,000	1,000	1,000	1,000	0,987	0,964	0,946	1,000	

Mesečno sončno obsevanje		št. dni							
H _{sol,m} (Wh/m²m)									
jan	31	7967	28427	28427	7967	14446	43431	14446	7967
feb	28	11480	48468	48468	11480	22484	59752	22484	11480
mar	31	19654	85529	85529	19654	41664	72354	41664	19654
apr	30	30810	121470	121470	30810	58440	69870	58440	30810
maj	31	37200	151714	151714	37200	71331	65999	71331	37200
jun	30	42510	158220	158220	42510	69660	60780	69660	42510
jul	31	39370	169539	169539	39370	73129	66774	73129	39370
avg	31	32240	146909	146909	32240	66619	74803	66619	32240
sep	30	23610	100620	100620	23610	45420	72000	45420	23610
okt	31	16306	59241	59241	16306	28117	56451	28117	16306
nov	30	9720	29490	29490	9720	15960	33780	15960	9720
dec	31	7006	21638	21638	7006	12214	30907	12214	7006

Transmisijske toplotne izgube Q _{tr,m} (kWh/m)		ΔT	št. dni	OGREVANJE							
jan	21	31	690,7	348,7	470,8	48,7	169,5	181,3	26,9	26,9	1963,4
feb	19	28	564,5	295,6	384,7	39,8	138,5	148,2	22,0	22,0	1615,2
mar	15	31	493,4	284,3	336,3	34,8	121,1	129,5	19,2	19,2	1437,7
apr	11	30	350,1	290,2	238,6	24,7	85,9	91,9	13,6	13,6	1108,7
maj	6	31	197,3	279,4	134,5	13,9	48,4	51,8	7,7	7,7	740,8
jun	3	30	95,5	258,6	65,1	6,7	23,4	25,1	3,7	3,7	481,8
jul	1	31	32,9	259,0	22,4	2,3	8,1	8,6	1,3	1,3	335,9
avg	1	31	32,9	259,0	22,4	2,3	8,1	8,6	1,3	1,3	335,9
sep	5	30	159,2	266,5	108,5	11,2	39,1	41,8	6,2	6,2	638,6

	okt	10	31	328,9	230,7	224,2	23,2	80,7	86,3	12,8	12,8	999,7
	nov	16	30	509,3	285,5	347,1	35,9	125,0	133,7	19,8	19,8	1476,2
	dec	20	31	657,8	337,9	448,4	46,4	161,4	172,7	25,6	25,6	1875,8
Transmisijske toplotne izgube $Q_{tr,m}$ (kWh/m)	ΔT		št. dni	HLAJENJE								Sku paj
	jan	27	31	888,1	348,7	605,3	62,7	217,9	233,1	34,6	34,6	2424,8
	feb	25	28	742,7	295,6	506,2	52,4	182,2	194,9	28,9	28,9	2031,9
	mar	21	31	690,7	284,3	470,8	48,7	169,5	181,3	26,9	26,9	1899,1
	apr	17	30	541,1	290,2	368,8	38,2	132,8	142,0	21,1	21,1	1555,2
	maj	12	31	394,7	279,4	269,0	27,9	96,9	103,6	15,4	15,4	1202,2
	jun	9	30	286,5	258,6	195,2	20,2	70,3	75,2	11,1	11,1	928,3
	jul	7	31	230,2	259,0	156,9	16,2	56,5	60,4	9,0	9,0	797,3
	avg	7	31	230,2	259,0	156,9	16,2	56,5	60,4	9,0	9,0	797,3
	sep	11	30	350,1	266,5	238,6	24,7	85,9	91,9	13,6	13,6	1085,0
	okt	16	31	526,3	230,7	358,7	37,1	129,1	138,1	20,5	20,5	1461,0
	nov	22	30	700,3	285,5	477,3	49,4	171,8	183,8	27,2	27,2	1922,6
	dec	26	31	855,2	337,9	582,9	60,4	209,8	224,5	33,3	33,3	2337,2
Dobitki sončnega obsevanja $Q_{sol,m}$ (kWh/m)			št. dni	OGREVANJE								Sku paj
	jan		31	4,20	0,00	0,00	0,00	104,15	280,05	12,08	6,97	407,4
	feb		28	6,06	0,00	0,00	0,00	161,27	376,09	18,46	10,04	571,9
	mar		31	10,40	0,00	0,00	0,00	298,33	443,90	34,18	17,19	804,0
	apr		30	16,32	0,00	0,00	0,00	417,50	420,50	47,88	26,79	929,0
	maj		31	19,70	0,00	0,00	0,00	508,76	394,22	58,48	31,82	1013,0
	jun		30	22,52	0,00	0,00	0,00	402,45	365,77	57,24	36,13	884,1
	jul		31	20,86	0,00	0,00	0,00	419,82	399,24	59,91	33,54	933,4
	avg		31	17,07	0,00	0,00	0,00	388,24	446,15	54,49	27,86	933,8
	sep		30	12,50	0,00	0,00	0,00	278,97	439,57	37,47	20,65	789,2
	okt		31	8,62	0,00	0,00	0,00	202,08	353,03	23,31	14,26	601,3
	nov		30	5,13	0,00	0,00	0,00	114,85	216,99	13,25	8,50	358,7
	dec		31	3,69	0,00	0,00	0,00	87,86	200,32	10,11	6,13	308,1

Dobitki sončnega obsevanja $Q_{sol,m}$ (kWh/m) št. dni

Analiza sNES "Testni Projekt"

[← Nazaj](#)

Kazalniki energijske učinkovitosti stavbe		
		Količina (kWh/an)
Neutežena dovedena energija za delovanje TSS	$E_{del,an}$	14290
Utežena dovedena energija za delovanje TSS	$E_{w,del,an}$	26124
Obnovljiva primarna energija dovedene energije	$E_{pren,an}$	14290
Neobnovljiva primarna energija dovedene energije	$E_{pnren,an}$	11834
Skupna primarna energija	$E_{ptot,an}$	26124
		Vrednost (%)
Razmernik obnovljivih virov energije ROVE		55
Minimalni zahtevani razmernik ROVE _{min}		50
Ustreza minimalni zahtevi		DA
		Vrednost (-)
Korekcijski faktor razmernika ROVE X_{OVE}		1
Kompenzacijski faktor razmernika ROVE Y_{ROVE}		1
Korekcijski faktor dovoljene skupne primarne energije glede na vrsto stavbe X_s		1,0
Korekcijski faktor dovoljene skupne primarne energije glede na leto uveljavitve X_p		1,0
Kompenzacijski faktor potrebne toplote za ogrevanje $Y_{H,ogd}$		1,2
		Količina (kWh/an)
Specifična potrebna skupna primarna energija	$E'_{ptot,an}$	163
Korigirana specifična potrebna primarna energija	$E'_{ptot,kor,an}$	157
Dovoljena specifična potrebna skupna primarna energija	$E'_{ptot,kor,an}$	75
Korigirana dovoljena specifična potrebna skupna primarna energija	$E'_{ptot,kor,dov,an}$	75
Ustreza minimalni zahtevi		NE
		Vrednost (kg/an)
Izpusti ogljikovega dioksida	$M_{CO_2,an}$	3314