

# Scope of Ar chitectur al Services and Fees in Slovenia

Scope of Architectural Services and Fees -CCA International Conference Zagreb, 13. - 14. October 2022

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## **MAIN DISHES**

9.

- 10. Pad Se-ieu
- 11. Pad Khee Mao

Pad Thai

- 12. Pad Sen
- 13. Khao Pad Gai
- 14. Khao Thai Tom Yum
- 15. Pad Bai Grapow
- 16. Gai Med Mamuang
- 17. Pad Khing
- 18. Pad Pak Ruammit



### **MAIN DISHES**

Pad Thai 9. Thin rice noodles stir-fried with chicken, eggs, green onions, tofu, served with ground peanuts, a lime wedge, and fresh bean sprouts

Pad Se-ieu 10. Large rice noodles stir-fried with vegetables and eggs in soya sauce choice of chicken, pork or beef

Pad Khee Mao 11. Large rice noodles stir-fried with freshly crushed chilies and Thai herbs choice of chicken, pork or beef

Pad Sen 12.

Egg noodle stir-fried with vegetables and choice of chicken, pork or beef

Khao Pad Gai 13.

Fried rice with chicken,, eggs and fresh vegetables

14. Khao Thai Tom Yum

Fried rice with shrimp, scallops and squid seasoned with Thai spices

15. Pad Bai Grapow Choice of Chicken, beef, or pork, stir- fried with freshly crushed chilies and vegetables and basil

#### Gai Med Mamuang 16.

Chicken stir-fried with cashew nuts, broccoli, mushroom, onions, green & red peppers

#### 17. Pad Khing

Choice of chicken, beef, or pork, stir-fried with ginger, green and red peppers, onions and mushroom

#### **Pad Pak Ruammit** 18.

Choice of chicken, beef, or pork, stir-fried in soya sauce with fresh vegetables and mushrooms





## **MAIN DISHES**

<b>9.</b> Thin rice r served wi	Pad Thai noodles stir-fried with chicken, eggs, green onions, tofu, th ground peanuts, a lime wedge, and fresh bean sprouts	17
<b>10.</b> Large rice choice of	Pad Se-ieu noodles stir-fried with vegetables and eggs in soya sauce chicken, pork or beef	17
	Pad Khee Mao noodles stir-fried with freshly crushed chilies and Thai herbs chicken, pork or beef	17
<b>12.</b> Egg nood	Pad Sen e stir-fried with vegetables and choice of chicken, pork or beef	17
<b>13.</b> Fried rice v	Khao Pad Gai with chicken,, eggs and fresh vegetables	17
<b>14.</b> Fried rice v	Khao Thai Tom Yum with shrimp, scallops and squid seasoned with Thai spices	18
<b>15.</b> Choice of and veget	Pad Bai Grapow Chicken, beef, or pork, stir- fried with freshly crushed chilies ables and basil	17
<b>16.</b> Chicken st green & re	Gai Med Mamuang ir-fried with cashew nuts, broccoli, mushroom, onions, d peppers	18
17. Choice of onions and	Pad Khing chicken, beef, or pork, stir-fried with ginger, green and red peppers, d mushroom	17
<b>18.</b> Choice of fresh vege	Pad Pak Ruammit chicken, beef, or pork, stir-fried in soya sauce with tables and mushrooms	17





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#### INGREDIENTS

STIR-FRY INGREDIENTS:

- 8 ounces uncooked <u>rice noodles</u>
- 2 tablespoons oil, divided
- 1 pound boneless skinless chicken breasts\*, cut into bite-sized pieces
- 3 scallions, chopped with white and dark green parts divided
- 2 cups broccoli florets (or other veggies\*)
- 1 red bell pepper, cored and diced
- 4 cloves garlic, minced
- 11/2 cups tightly-packed fresh Thai basil leaves
- optional toppings: fresh lime wedges, sliced Thai bird chiles, chopped peanuts, and/or fried garlic

#### STIR-FRY SAUCE:

- 3 tablespooons low-sodium soy sauce
- 2 tablespoons <u>oyster sauce</u>
- 2 tablespoons <u>fish sauce</u>
- 1 tablespoon <u>sweet dark soy sauce</u>\*
- 1 tablespoon <u>chili garlic sauce</u>

### HOW TO MAKE DRUNKEN NOODLES:

Here is a brief overview of the steps to make this Thai drunken noodles recipe (full instructions in the recipe below):

- 1. **Prep the sauce:** First, whisk all of the sauce ingredients together in a small bowl until combined.
- 2. **Prep the noodles:** Next, go ahead and cook the noodles al dente. Then rinse them briefly with water to cool (so they will stop cooking) and toss with a drizzle of oil so that they do not stick together.
- 3. Sauté the chicken: Then once your veggies and chicken are all prepped and ready to go, it's time to sauté. I recommend cooking your chicken (or whatever protein you choose) first, in a bit of oil.
  - 4. **Cook the veggies.** Next, sauté the veggies until they reach your desired level of doneness. (I like mine to be on the crisper side.)
- 5. **Combine everything.** Then add the cooked noodles, sauce, chicken, Thai basil, and scallions to the pan and toss until thoroughly combined.
- 6. **Serve warm.** And serve immediately, while the noodles are still nice and hot, topped with whatever garnishes you love best.





SIDE ORDERS		
Peanut sauce	2	
Sweet chilli sauce	2	Contraction of the second seco
Spicy mayo sauce	2	
Jasmine rice	2	
Brown rice	2	
Thai sticky rice	2	
Coconut rice	3	
Garlic fried rice	3	
Pad Thai with egg	6	
Roti Nan	2	
Steam rice noodle	2	

### ARHITEKTURD IN PROSTOR SLOVENIJE SCOPE OF Architectural services and Fees

- scope of services with description of services,
- fee calculation rules,

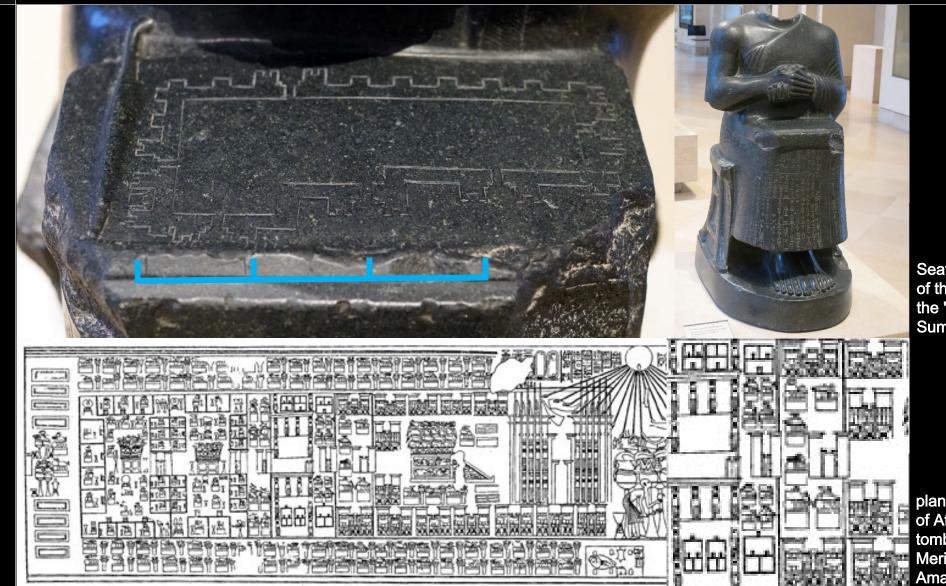
**ZBORNICA ZA** 

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- detailed content of architectural plans,
- instructions for drawing architectural plans.



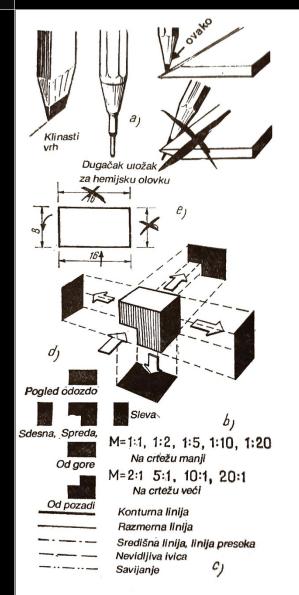


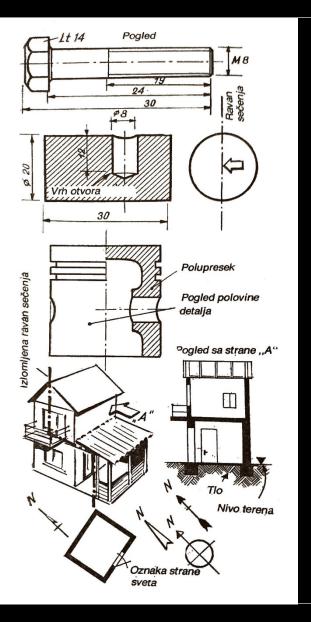


Seated statue of the ruler Gude , the "architect with a plan", Sumeria , 2200 BC

plan of the Temple of Aton at Karnak, tomb of the priests Merir and Panehsi , Amarna, 1352 - 1336 BC







STANDARD JUS

da



ARHIGRAM 3.04 interaktivni program za izračun vrednosti projektantskih storitev naročnik Janez Novak, Slovenska 15, 1000 Ljubljana porudnik Podjetje d.o.o. objekt Gradnja enodružinske hiše datum 05/01/2016

INVESTICIJA	STAVBA (GOI)		ZUN	ANJA UREDITE	/	NOT	RANJA OPREM/	A SK	UPAJ
VRSTA	ENODRUŽINSKA HIŠ	A	KR/	JINSKA UREDIT	EV OB OBJEKTIH	ZAH	TEVNA OPREMA		
OBJEKTA									
POVRŠINA	200 m2			300 m2			250 m2		
PRIPOROČENA VREDNOST EUR/m2 BEP	600-800			60-120			200-400		
EUR/m2 BEP	700 EUR	1/m2		80 EUI	D/m 2		400 EUF	2/m2	
EUR/M2 BEP STOPNJE TEŽAVNOSTI	700 EUR	/mz		80 EU	R/MZ		400 EU	k/m2	
			1.11.5				7050		
	I-II RAZRED		1-11 1	RAZRED		III RA	ZRED		
ARHITEKTURA	I-II RAZRED								
KONSTRUKCIJE	II-III RAZRED								
STROJNE INSTALACIJE	I-II RAZRED								
ELEKTRO INSTALACIJE	I-II RAZRED								
TOPLOTNA ZAŠČITA	II-III RAZRED								
HRUP	I-II RAZRED								
VREDNOST INVESTICIJE GOI	140.000			24.000			100.000		264.00
GO	0,72 100.800								
SI	0,14 19.600								
EI	0,14 19.600								
OST	0,00 0								
OSNOVNI NAČRTI	IDZ	IDP	PGD	PZI	skupaj PD	PID	PNG	SKUPAJ	%projekt
ARHITEKTURA	620	620	2.481	2.481	6.202	0	620	6.822	24,
KONSTRUKCIJE	258	258	1.032	1.032	2.580	0	258	2.838	10,3
STROJNE INSTALACIJE	208	208	830	830	2.076	0	208	2.283	8,2
ELEKTRO INSTALACIJE	208	208	830	830	2.076	0	208	2.283	8,2
SKUPAJ	1.293	1.293	5.173	5.173	12.933	0	1.293	14.227	51,
OSNOVNI ELABORATI	IDZ	IDP	PGD	PZI	skupai PD	PID	PNG	SKUPAJ	%projekta
VODILNA MAPA	658	158	461	39	1.316	0	110	1.316	4.
TOPLOTNA ZAŠČITA	36	36	146	146	364	0		364	1,3
HRUP	20	20	78	78	196	0		196	0,7
POŽAR	24	12	107	95	238	0	-	238	0,9
SKUPAJ	738	226	792	359	2.114	0	0	2.114	7,6
DODATNI NAČRTI IN ELABORATI	IDZ	IDP	PGD	PZI	skupaj PD	PID	PNG	SKUPAJ	%projekta
TEHNOLOŠKI NAČRTI					0			0	0,0
AKUSTIKA PROSTOROV					0			0	0,0
NGGO					0			0	0,0
PRESOJA VPLIVOV NA OKOLJE					0			0	0,0
					0			0	0,0
					0			0	0,0
					0			0	0.0
					0			0	0,0
SKUPAJ	0	0	0	0	0	0	0	0	0,0
	IDZ	IDP	PGD	PZI	skupai PD	PID	PNG	SKUPAJ	%projekt
ZUNANJA UREDITEV	270	270	540	720	1,800	0	180	1.980	7,1
				720		-			
	IDZ	IDP	PGD	PZI	skupaj PD	PID	PNG	SKUPAJ	%projekt
NOTRANJA OPREMA	975	975	1.950	2.600	6.500	0	650	7.150	25,
DRUGO	IDZ	IDP	PGD	PZI	skupaj PD	PID	PNG	SKUPAJ	%projekt
	m2								
POSNETEK OBSTOJEČEGA STAN	0 0				0			0	0,0
NAČRT ODSTRANJEVALNIH DEL	0		0		0			0	0,
					0			0	0,
					0			0	0,0
SKUPAJ	0	0	0	0	0	0	0	0	0,0
SKUPAJ	IDZ	IDP	PGD	PZI	skupai PD	PID	PNG	SKUPAJ	%projekt
SKUPAJ	3.276	2.764	8.455	8.852	23.347	0	2.123	25.471	91.
ODGOVORNO VODENJE	233	233	934	934	2.335	0	2.125	2.335	
SKUPAJ PROJEKT		233		934		0	2 4 2 2	2.335	
	3.510	2.998	9.389	9.786 35.2	25.682 92,4	0,0	2.123 7.6	27.805	100,0
% cene projekta	12.6		33.8						

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# **Slovenian legislation**



## Legislation is constantly changing – time line of the Building Act:

- 1984 Zakon o graditvi objektov ZGO
- 2002 Zakon o graditvi objektov ZGO-1
- 2004 Zakon o graditvi objektov ZGO-1A
- 2007 Zakon o graditvi objektov ZGO-1B
- 2009 Zakon o graditvi objektov ZGO-1C
- 2012 Zakon o graditvi objektov ZGO-1D
- 2013 Zakon o graditvi objektov ZGO-1E
- 2015 Zakon o graditvi objektov ZGO-1F
- 2017 Gradbeni zakon GZ
- 2021 Gradbeni zakon GZ-1

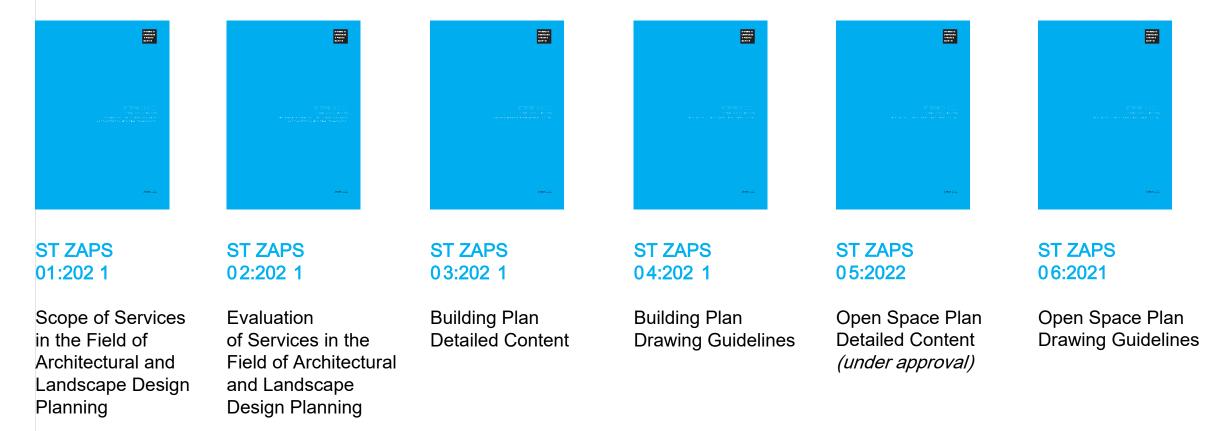
Content of architectural plan is only defined for:

- building permit application (part of concept design level)
- basic contents of the construction phase plan (detailed design)





### Standard of the Slovenian Chamber for Architecture and Spatial Planning:





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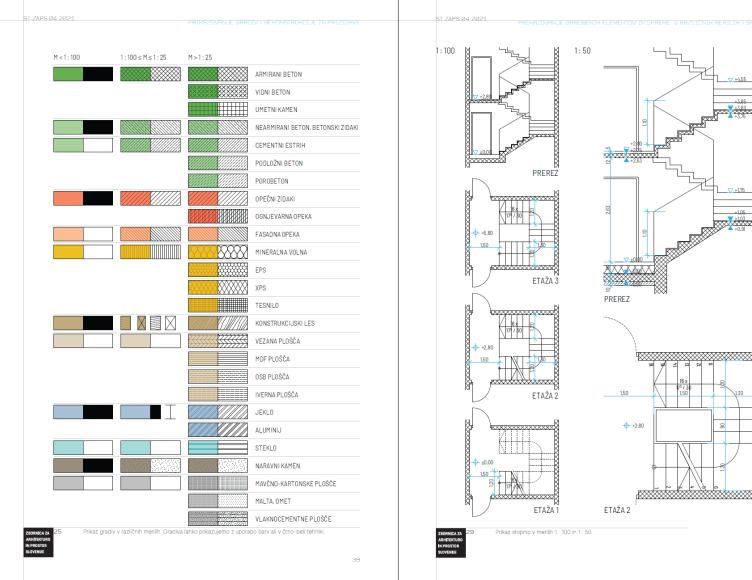
# **Building Plan Drawing Guidelines**

ZBORNICA ZA

ARHITEKTURO

IN PROSTOR

SLOVENIJE



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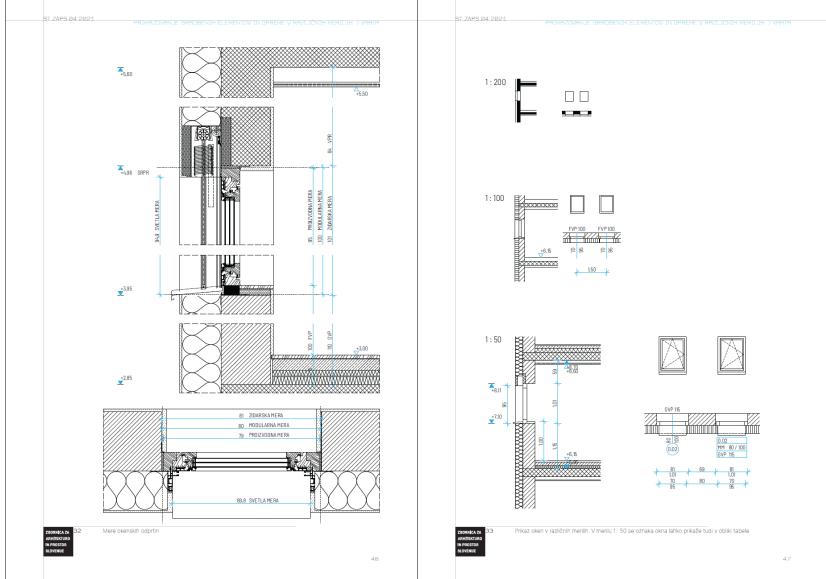
# **Building Plan Drawing Guidelines**

**ZBORNICA ZA** 

ARHITEKTURO

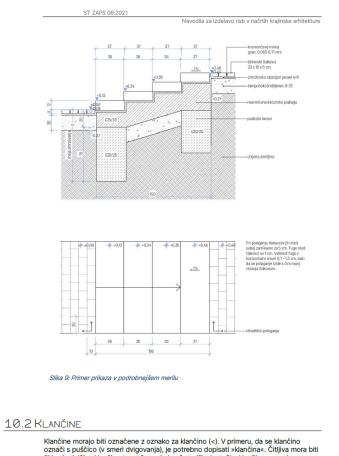
IN PROSTOR

SLOVENIJE



#### Open Space Plan Drawing Guidelines **ZBORNICA ZA** ARHITEKTURO IN PROSTOR SLOVENIJE

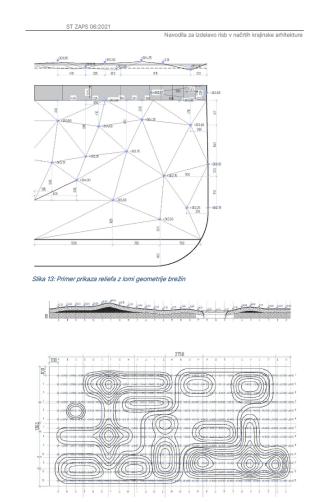




širina in dolžina klančine ter začetna in končna višinska točka klančine, naveden mora biti naklon v odstotni vrednosti. V merilih, manjših od 1:100, se klančine prikazujejo poenostavljeno. Lahko se dodajo opombe (npr. »klančina primerna za gibalno ovirane«). V kolikor je potrebno, se prikaže potek obstoječega terena (npr. v prerezih).

Po potrebi uporabimo pravila za risanje stopnic.

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Slika 14: Primer prikaza reliefa s plastnicami in mrežo višinskih točk ((povzeto po: Kolektiv Tektonika d.o.o., Vrtec Kočevje, poligon na otroškem igrišču, oktober 2020. Avtorji: Matjašec, D., Florjanc, N., Mali, K., Kante, P.)



## **Building Plan Detailed Content**

### 7. VSEBINA POSAMEZNIH NAČRTOV

#### **TEHNIČNI PRIKAZI**

STAVBE

ST ZAPS 03:2021

#### 7.1. VODILNI IN DRUGI NAČRTI

ST ZAPS 03:2021

Posamezni načrti so sestavljeni iz splošnega in tehničnega dela.

Vodilni načrt vsebuje v splošnem delu poleg osnovnih vsebin s svojega področja še splošne podatke o gradnji ter izjave, projektne pogoje, mnenja oziroma soglasja in izkaze, kadar to določajo področni predpisi, ter dokumentacijo o reviziji, kadar se ta izdela na zahtevo investitorja ali kadar to določajo področni predpisi, v tehničnem delu pa poleg tehničnih tudi lokacijske prikaze in zbirno tehnično poročilo.

Kadar je za potrebe pridobivanja dovoljenj mogoče uporabiti eno izmed projektnih dokumentacij v celoti, je v izogib podvajanju gradiva smiselno v splošni del vključiti tudi vse vsebine v obsegu in obliki, kot jih zahteva področni pravilnik (označeno s sivo barvo). V nasprotnem primeru ali kadar se projektna dokumentacija izdeluje za gradnjo, za katero niso predpisani upravni postopki, pa se vključijo najmanj vsebine, ki so v spodnji razpredelnici označene s črno barvo. Te vsebine se priključi tehničnemu porcilu.

		VODIL	NI NAC	RT		DRUGI NAČRTI					
		IDZ	IDP	PZI	PZR	PID	DZ	DP	PZI	PZR	PID
SPLOŠNI	DEL										
1.	NASLOVNA STRAN	•	•	•	٠	•	•	•	•	•	٠
2.	IZJAVE	٠	٠	۰		۰					
3.	KAZALO PROJEKTA		٠	•	•	•	•	٠	٠	•	•
4.	KAZALO NAČRTA	•	٠	٠	•	٠	٠	٠	٠	•	٠
5.	SPLOŠNI PODATKI O GRADNJI	٠	٠	٠		٠					
6.	PROJEKTNI POGOJI, MNENJA	٠	٠								
7.	IZKAZI			٠		٠					
8.	DOKUMENTACIJA O REVIZIJI		٠	٠				٠	٠		
TEHNIČN	II DEL										
TEKSTUA	LNI DEL										
Α.	TEHNIČNO POROČILO	•	٠	٠	•	•	•	•	•	•	٠
B.	POPIS DEL				•					•	
C.	SPREMLJANJE INVESTICIJE	•	٠		•					•	
GRAFIČN	I DEL										
D.	LOKACIJSKI PRIKAZI	۰	۰	۰		٠					
E.	TEHNIČNI PRIKAZI	•	٠	٠	•	٠	٠	٠	٠	•	٠

Ureditvena situacija na zemljišču za gradnjo s prikazom vseh stavb, GOI objektov, površin, infrastrukture in drugih gradbenih posegov (kadar ni obdelano v ločenem načrtu)	1:250
Zbirnik komunalnih vodov in naprav, v katerem so prikazani vsi obstoječi in predvideni komunalni vodi in naprave, priključki teh vodov ter morebitne prestavitve vodov (samo kadar niso izdelani lokacijski prikazi)	1:250
Vsi tlorisi stavbe: temelji s kanalizacijo, vse etaže in medetaže, ostrešje in streha, z vsemi vnesenimi podatki za vgradnjo inštalacijskih sistemov (preboji ipd.)	1:50
Tlorisi vseh etaž z risbami polaganja tlakov	1:50
Tlorisi vseh etaž z risbami stropov ter elementi osvetljave, prezračevanja ipd.	1:50
Tlorisi vseh etaž z zbirnikom vseh inštalacijskih vodov	1:50
Vsi prerezi, ki so potrebni za celovito razumevanje objekta	1:50
Vse fasade stavbe	1:50
Shema stavbnega pohištva in ograj	1:50
Fasadni pasovi	1:25
Druge sheme in detajli izvedbe, ki so potrebni za izvedbo objekta, tako da se objekt lahko gradi brez dopolnitev projektne dokumentacije	1:50,1:20, 1:10,1:5, 1:2,1:1

#### NOTRANJA OPREMA

Tlorisi z dispozicijo opreme	1:50,1:25
Sheme talnih, stropnih in stenskih oblog z razsvetljavo (kadar niso zajete v drugih načrtih)	1:50,1:25
Sheme stavbnega pohištva (kadar niso zajete v drugih načrtih)	1:50,1:25
Sheme priklopov električnih in strojnih instalacij (kadar niso zajete v drugih načrtih)	1:50,1:25
Katalog izbrane in načrtovane notranje opreme, svetil, grelnih teles in drugih vidnih elementov (artikli, barve, materiali, obdelave)	
Izvedbeni načrti za mizarska in druga obrtniška dela	1:20,1:10
Vsi detajli, potrebni za izvedbo	1:5,1:1

EBORNJCA ZA AAHITEKTURD N PROSTOR N PROSTOR

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ZBORNJEA ZJ AAHBIEKTUR IN PROSTOR

# ZBORNICA ZA<br/>ARHITEKTURD<br/>IN PROSTOR<br/>SLOVENIJEOpen Space Plan<br/>Detailed Content



#### ST ZAPS 05:2022

#### Podrobnejša vsebina načrtov krajinske arhitekture

ST ZAPS 05:2022

Podrobnejša vsebina načrtov krajinske arhitekture

#### 10 PREGLEDNICA PODROBNEJŠE VSEBINE TEHNIČNIH PRIKAZOV

#### Navedena merila so okvirna. Glede na velikost območja in objekt obravnave se merila tehničnih prikazov ustrezno oziroma smiselno prilagajajo.

	IDZ	IDP	PZI	PID
NAČRT KA				
pregledna situacija	1:1000/ 1:500	1:1000/ 1:500	1:1000/ 1:500	1:1000/ 1:500
prikaz obstoječega stanja	1:500	1:500	1:500	
prikaz inventarizacije in valorizacije drevnine			1:500	
prikaz odstranjevalnih del/prikaz rušitev in odstranitev	1:500	1:500	1:500 1:250	
ureditvena situacija	1:500	1:500	1:500 1:200	1:500 1:200
tehnična situacija		1:500 1:250	1:200 1:100	1:200 1:100
višinska situacija			1:200 1:100	1:200 1:100
zbirnik komunalnih vodov in naprav, (če ni drugje), skupaj s situacijo / vključno s prikazom načrtovane zasaditve	1:500	1:500	1:500 1:200	1:500 1:200
zakoličbena situacija			1:200	
prikaz utrjenih površin in tlakovanja			1:200	
zasaditvena situacija/načrt	1:500	1:500	1:200	1:200
prerezi	1:500	1:500 1:250	1:200 1:100	1:200 1:100
prikazi grajenih elementov		prilagojeno	1:50 1:20	1:50 1:20
detajli (ureditev, zasaditev, oprema, elementi)			1:50 1:20 1:10	1:50 1:20 1:10
katalog izbrane urbane opreme			prilagojeno	prilagojeno

OPOMBA:

Kadar gre za rekonstrukcijo, prizidavo ali vzdrževanje objekta se, kjer je smiselno, navaja opise za obstoječe in novo stanje.

- uporaba okoljsko sprejemljivih surovin in sekundarnih materialov.

zagotavljanje ekoloških funkcij (vodotokov ipd.),

II. GRAFIČNI DEL

#### D. LOKACIJSKI PRIKAZI

Lokacijski prikazi se izdelajo v skladu z določili področnega pravlinika samo, kadar bo projektna dokumentacija v celoti uporabljena za postopke dovoljevanja. Vloži se jih le v projektno dokumentacijo za upravne postopke, kot jo določa področni pravilnik. Priporočljivo je, da se prikaze izdela na toliko risbah in v takšnem merilu, da so posamezni prikazi jasno vidni. Običajno se prikazuje ureditev, zbirnik gospodarske javne infrastrukture, osnovne dimenzije in odmiki ter zakoličba.

Po potrebi se izdelajo tudi prikazi, na katerih so odstopanja PZI od projektne dokumentacije, na podlagi katere je bilo pridobljeno gradbeno dovoljenje.

#### E. TEHNIČNI PRIKAZI

	1 4000
pregledna situacija načrtovane ureditve z navezavo na okoliški prostor	1:1000
prikaz obstoječega stanja	1:500
prikaz inventarizacije in valorizacije drevnine	1:500
prikaz odstranjevalnih del (na geodetskem posnetku; prikaz vseh elementov	
namenjenih rušitvi/odstranitvi (tudi vegetacije, ki se odstrani) ter drevnine in	
drugih prvin, ki se jih v fazi gradnje zaščiti)	1:500
ureditvena situacija (s podrobnimi opisi rešitev in ureditev - umestitev objekta	
in celovita zasnovo odprtega prostora: dovozi, dostopi, površine za (mirujoči)	
promet, druge utrjene površine, zelene površine in zasaditev, višinska zasnova	
terena, površine za zbiranje odpadkov, elementi in oprema, lokacije in	
oblikovanje strojnih, elektro in drugih tehničnih elementov)	1:500 1:200
zbirnik komunalnih vodov in naprav, v katerem so prikazani vsi obstoječi in	
predvideni komunalni vodi in naprave, priključki teh vodov ter morebitne	
prestavitve vodov (kadar ni zajeto v drugem načrtu ali kadar niso izdelani	
lokacijski prikazi)	1:500 1:200
tehnična situacija (z merami in dimenzijami in vsemi potrebnimi tehničnimi	
opisi, npr. materiali utrjenih površin in urbane opreme	1:250 1:200
višinska situacija (prikaz regulacije terena in objektov, prikaz prečnih sklonov in	
načina odvodnjavanj. Glede na tip ureditve je dopustno, da se vsebina združi s	
tehnično in/ali zakoličbeno situacijo.	1:250 1:200
zakoličbena situacija (s prikazom točk za prenos v naravo s seznamom	
koordinat) Glede na tip ureditve je dopustno, da se vsebina združi s tehnično	
in/ali višinsko situacijo.	1:250 1:200
prikaz utrjenih površin in tlakovanja (če je potrebno glede na kompleksnost	
objekta)	1:250 1:200
Zasaditveni načrt s prikazanimi tipi zasaditve in shemami vzorcev zasaditve	
(drevje, grmovnice, trajnice, (ob)vodne zasaditve in druge zasaditve) ter s	
prikazom obstoječe vegetacije	1:250 1:200
prečni in vzdolžni prerezi	
detajli ureditev (gradbeni, zasaditveni itd.) – tlorisi, prerezi	1:50, 1:20, 1:10
detajli opreme po načrtu in/ali izbor tipske opreme, z vsemi specifikacijami –	1.00, 1.20, 1.10
tlorisi, prerezi	glede na vsebino
drugi prikazi	×
an all burner	glede na vsebino





	E P2.	1 P 2 2
4 1	*	F 2.2
P 2.4	-fi	
		P 2.3
	R2.5	]
	P2.4	

6.1 / predprostor	5,1
6.2 / kopalnica	4,2
6.3 / spalnica	9,9
6.4 / dnevno bivalni prostor	20,9
6.5 / terasa	25,7
SKUPAJ	65,8
K.58 / shramba	3,4
SKUPAJ	69,2

2.1 / predprostor	5,1
2.2 / kopalnica	4,2
2.3 / spalnica	9,9
2.4 / dnevno bivalni prostor	20,
2.5 / balkon	8,0
SKUPAJ	48,
K.57 / shramba	3,7
SKUPAJ	51

Scope of Architectural Services and Fees CCA International Conference Zagreb, Croatia October 13-14, 2022

# **Scope of Services**



Sub Stages Stages EN 15643-3-2012 0. Initiative 0.1 Market Study 0.2 Business Case 1. Initiation Project Initiation 1.1 1.2 Feasibility Study 1.3 Project Definition Product Stage 2. Design 2.1 Conceptual Design Before Use Stage 2.2 Preliminary Design and Developed Design (B&I) 2.3 Technical Design or FEED 2.4 Detailed Engineering 3. Procurement (IF) 3.1 Procurement 3.2 Construction Contracting 4. Construction 4.1 Pre-construction Construction Stage 4.2 Construction 4.3 Commissioning 4.4 Hand Over 4.5 Regulatory Approval Use Stage 5. Use 5.1 Operation 5.2 Maintenance End of life Stage 6. End of Life 6.1 Revamping 6.2 Dismantling

SIST EN 16310:2013

Figure A.1 — Stages and substages in the life cycle of built assets

RIBA Plan of Work 2020	The RIBA Plan of Work organises the process of briefing, designing, delivering, maintaining, operating and using a building into eight stages. It is a framework for all disciplines on construction projects and should be used solely as guidance for the preparation of detailed professional services and	0 Strategic Definition	1 Preparation and Briefing	2 Concept Design	3 Spatial Coordination	4 Technical Design	5 Manufacturing and Construction	6 Handover	7 Use
2020	building contracts.		Projects sp	an from Stage 1 to Stage 6; the	outcome of Stage 0 may be th	e decision to initiate a project a	nd Stage 7 covers the ongoing (	use of the building. ———	
Stage Boundaries: Stages 0-4 will generally be undertaken one after the other. Stages 4 and 5 will overlap in the <b>Project Programme</b> for most projects.	Stage Outcome at the end of the stage	The best means of achieving the <b>Client Requirements</b> confirmed If the outcome determines that a building is the best means of achieving the <b>Client Requirements</b> , the client proceeds to Stage 1	Project Brief approved by the client and confirmed that it can be accommodated on the site	Architectural Concept approved by the client and aligned to the <b>Project Brief</b> The brief remains "live" during Stage 2 and is derogated in response to the Architectural Concept	Architectural and engineering information <b>Spatially</b> <b>Coordinated</b>	All design information required to manufacture and construct the project completed Stage 4 will overlap with Stage 5 on most projects	Manufacturing, construction and <b>Commissioning</b> completed There is no design work in Stage 5 other than responding to Site <b>Queries</b>	Building handed over, Aftercare initiated and Building Contract concluded	Building used, operated and maintained efficiently Stage 7 starts concurrently with Stage 6 and lasts for the life of the building
Stage 5 commences when the contractor takes possession of the site and finishes at Practical Completion. Stage 6 starts with the handover of the building to the client immediately after Practical Completion and finishes at the end of the Defacts Liability Period. Stage 7 starts concurrently with Stage 6 and lasts for the life of the building. Planning Note: Planning Applications	Core Tasks during the stage Project Strategies might include: - Conservation (# applicable) - Cost - Fire Safety - Inclusive Design - Planning - Plan for Use - Procurement - Sustainability See RBA Plan of Work 2020 Overview for detailed guidance on Project Strategies	Prepare Client Requirements Develop Business Case for feasible options including review of Project Risks and Project Budget Ratify option that best delivers Client Requirements Review Feedback from previous projects Undertake Site Appraisals	Prepare Project Brief including Project Outcomes and Sustainability Outcomes, Quality Aspirations and Spatial Requirements Undertake Feasibility Studies Agree Project Budget Source Site Information including Site Surveys Prepare Project Programme Prepare Project Execution Plan and 1. Client advisers may be appointed dvice and design thinking before Stage	Prepare Architectural Concept incorporating Strategic Engineering requirements and aligned to Cost Plan, Project Strategies and Outline Specification Agree Project Brief Derogations Undertake Design Reviews with client and Project Stakeholders Prepare stage Design Programme	Undertake Design Studies, Engineering Analysis and Cost Exercises to test Architectural Concept resulting in Spatially Coordinated design aligned to updated Cost Plan, Project Strategies and Outline Specification Initiate Change Control Procedures Prepare stage Design Programme	Develop architectural and engineering technical design Prepare and coordinate design team Building Systems information Prepare and integrate specialist subcontractor Building Systems information Prepare stage Design Programme Specialist subcontractor designs are prepared and reviewed during Stage 4	Finalise Site Logistics Manufacture Building Systems and construct building Monitor progress against Construction Programme Inspect Construction Quality Resolve Site Queries as required Undertake Commissioning of building Prepare Building Manual Building handver tasks bridge Stage Strategy	Hand over building in line with Plan for Use Strategy Undertake review of Project Performance Undertake seasonal Commissioning Rectify defects Complete initial Aftercare tasks including light touch Post Occupancy Evaluation Stand 6 as set out in the Plan for Use	Implement Facilities Management and Asset Management Undertake Post Occupancy Evaluation of building performance in use Verify Project Outcomes including Sustainability Outcomes Adaptation of a building (at the end of its useful life) triggers a new Stage 0
Planning Applications are generally submitted at the end of Stage 3 and should only be submitted earlier when the threshold of information required has been met. If a <b>Planning</b> <b>Application</b> is made during Stage 3 a mid- stage gateway should be determined and it should be clear to the project team which tasks and deliverables	Core Statutory Processes during the stage: Planning Building Regulations Health and Safety (CDM)	Strategic appraisal of Planning considerations	Source pre-application Planning Advice Initiate collation of health and safety Pre-construction Information	Obtain pre-application Planning Advice Agree route to Building Regulations compliance Option: submit outline Planning Application	Review design against Building Regulations Prepare and submit Planning Application See Planning Application submitting a Planning Application earlier than at end of Stage 3	Submit Building Regulations Application Discharge pre- commencement Planning Conditions Prepare Construction Phase Plan Submit form F10 to HSE if applicable	Carry out Construction Phase Plan Comply with Planning Conditions related to construction	Comply with Planning Conditions as required	Comply with <b>Planning</b> <b>Conditions</b> as required
will be required. See Overview guidance. Procurement: The RIBA Plan of Work is procurement neutral – See Overview guidance for a detailed description of how each stage might be adjusted to accommodate the requirements of the	Procurement Route Design & Build 1 Stage Design & Build 2 Stage Management Contract Construction Management Contractor-led	Apport client team	Appoint design team	ER ER	Pre-contract services agreement Preferred bidder	Tender Appoint contractor ER CP Appoint CP Appoint CP Appoint contractor			Appoint Facilities Management and Asset Management teams, and strategic advisers as needed
Procurement Strategy. R Employer's Requirements CP Contractor's Proposals RIBA \\	Information Exchanges at the end of the stage	Client Requirements Business Case Jefined in the RIBA Plan of Work 2020 0	Project Brief Feasibility Studies Site Information Project Budget Project Programme Procurement Strategy Responsibility Matrix Information Requirements	Project Brief Derogations Signed off Stage Report Project Strategies Outline Specification Cost Plan	Signed off Stage Report Project Strategies Updated Outline Specification Updated Cost Plan Planning Application	Manufacturing Information Construction Information Final Specifications Residual Project Strategies Building Regulations Application	Building Manual including Health and Safety File and Fire Safety Information Practical Completion certificate including Defects List Asset Information If Verified Construction Information required verification tasks must be defined	Feedback on Project Performance Final Certificate Feedback from light touch Post Occupancy Evaluation	Feedback from Post Occupancy Evaluation Updated Building Manual including Health and Safety File and Fire Safety Information as necessary

> RIBA Plan of Work



Draft Architect's	5	0	1			2		3	4	5
Scope	Stages				De	sign				
of Services ACE WG SOS	•••	Initiative	Initiation	2.1 Concept Design	2.2 Preliminary Design	2.3 Developed Design	2.4 Detailed Design	Construction	Building Use	End of Life
Definition		Stage where the need for a construction or urban project emerges and is established (EN 16310 definition)	design to proceed	Sub stage where a set of fundamental thoughts for the project are developed starting at the design work stage taking into account the constraints. (SO 16813)	developed that offers a broad insight covering planning aspects, functional organisation, spatial structure and general	given to the stakeholders on the	described to technical detail, so that construction and that manufacturing and installation of equipment can take place	Stage where the design is built in accordance with the contract documents, legislation and client requirements (EN 16310 definition)	works are in use and maintained for the	Stage where the building which is the en of its life-cycle and is revamped or dismantled. (EN 16310 definition)
Tasks										
Design Services A & Construction Management		Appraise future requirements and market conditions for a specific project taking into consideration the interests of society, the specific project taking the specific project taking a specific project taking bases for decision to go ahead. Estimate and compare overall costs, set a bases for decision to go ahead. Estimate and compare overall costs, set a bases for decision to go ahead. Satismate and compare overall costs, set a bases for decision to go ahead. Satismate and compare overall costs. Satismate and	Evaluate client needs and user requirements. Compile available information covering regulatory, infrastructure and geotechnical conditions. Identify additional site investigations required including surveys of existing buildings and surveys of exist if necessary, carry out measured surveys and condition surveys of exist structures or buildings on site. 1.2 Feasibility Study:	Examine the principal elements of the "Unterl, if already defined by the client, or the objectives and requirements the project has to satisfy. Produce concept sketches and undertake produce concept sketches and undertake produce concept sketches and undertake produce concept sketches and undertake produce concept sketches and undertake design opcions, translating into drawings an appropriate sade toytically 1500- 1:200 along with a preliminary design report and an initial cost estimate.	options as approved by the client and previewed with the authorities. "Prepare graphic presentations of the syngets for discussions with the client and other interested parties. "Produce as set of preliminary design drawings at an appropriate scale trystall ruleon-1100 with floor plans, sections, ruleon-1100 with floor plans, sections, desching and a dimodelling, Produce sechnical reports to explain design options.	Prepare a set of developed design drawings with floor plans, sections and elevations to determine the dimensions,	execution and detail drawings at the inguined scale (bipsilar) 1:50, 1:20, 1:10, 1:5, 1:10. Provide calculations and specifications junended for construction and enabling contractors to build the works. Determine all details including furniture and other idements that are specific to the project. Recalculate building costs based on guantities incorporating quotations from specialist subcontractors.	3.1 Per-Construction: Prepare contract administration, review contracts and project objectives. 3.2 Inspection Overse the execution of the building contract. Monitor construction progress contractors activity and execution of the works. Consider contractors' drawings. Undertake random inspection of materials and quality of vorkmanship. Undertake final clarification of design dealls prior to imperementation. Process changes required by the claret and issue check and approve requests for payment issued by contractors. 3.3 Commissioning: Check that all works have been carried ou in accordance to contract, and that the building is fit for see and compliant to functions: required to open the building. Oversee preparation of as-built documentation. After final checks for woodmanship and After final checks for woodmanship and building users as start of guarantee periods. Oversee to the clinet and building users.	strategy and energy-waste-water management procedures.	5.1 Audit: Undertake end of life audit. Recomend demolition and/or rehabilitation strategy 3.2 Revamping: Provide services for a new cycle taking the health attest through stages from 0, dimensiting under controlled conditions required. 3.3 Unsmantling: Lindle J. in order to make the building of the site. Identify services (electricity, gas fluids) in order to make the building. Apph for any table for decommissioning. Apph for any table for decommissioning. Apph for any contaminated and and treatment of contaminated and and treatment of contaminated and and proundwater. If necessary, select appropriate landfill: necession, select appropriate landfill: exercice disconnections. Coordinate demolition under controlled conditions ensure health and safety of site operatives and the general public. Propo- measures to conta noise, air and groun water pollution.
B Statutory Approval				Hold preliminary discussions with local authorities on the basis of the conceptual design agreed by the client.	required for Planning or Building permit ap Collate additional technical documentation environmental and other appraisals as req Assemble documents required for building	from technical specialist consultants; such	as; acoustic, thermal, fire safety,	Apply for additional permits as required, enable possible monitoring by authorities during construction and produce documents to support registration of completion of the works with authorities il necessary.	Prepare documentation to obtain permits for possible changes of use, renovation or redesign.	Prepare documentation to obtain permit from authorities for dismantling or revamping as required
C Procurement		Advise with initial considerations for procurement strategy if required	Define possible procurement strategy. Assemble project team.	documents necessary for contractors to ap	preciate the type, the quantity, the quality a s, including: the conditions of tender, the p priority, etc.	ents setting out an unambiguous set of ten and the scope of their works so that contrac roposed form of contract, plans, specificatio truction contracts with each respective trad	tors can calculate their best offer. ons, possibly a bill of quantities and a list of	Mohitor revisions to construction contrats	Set out procurement documentation and tender proceedures for facility management, maintanance, and possibly renovation.	Set out procurement documentation and tender proceedures for revamping or dismantling
D Programme			Define an expected or desired time schedule, preparation of a project execution plan.	Set out key programme dates. Update and Review of the project execution plan. Consider options for Construction Strategy.	Update and Review of the project execution plan. Devise fundamental schedule in phases. Propose Construction Strategy.	Review and update proposed construction schedule and of the project execution plan. Review and update Construction Strategy.	schedule. Elaborate Handover and Commissioning	Monitor construction schedule as agreed by contract	Provide advice to programme planned maintenance and periodical performance testing	Schedule works for revemping or dismenting
E Sustainability				Propose definition of Sustainability objectives.	Produce preliminary definition of Sustainability Strategy. Environmental impact assessment – verify the general impact of the project on the ienvironment, including building, ioperating and dismantling.	Develop Sustainability Strategy. Review and update of the environmental impact assessment if necessary.	Review and update Sustainability Strategy.	Monitor application of Sustainability objectives.	Monitor Sustainability performance.	Consider waste management, environmental impacts, contamination, see above.
F Health and Safety			Consider Health and Safety strategy.	Prepare an Outline for Health and Safety Strategy.	Strategy.	Strategy.	Review and update of Health and Safety Strategy.	Monitor application of Health and Safety Strategy.	Update Health and Safety Documentation as required	Consideration of Health and Safety when revamping or dismantling see above.
Specialist G Consultant Design			Identity need for specialist consultants. Assemble project team.			ntegrate as necessary into overall design of HVAC-, geotechnical-, fire security-, acous		Monitor input and advice from specialist consultants at construction		
Specialist H Subcontractor Design			Define information exchange objectives	Information exchange level 1. Produce end	information exchange level 2. Produce	Check design from specialist suppliers and overall design documentation. (Specialist of Information exchange level 3. Produce end	ontractor's design includes technical desig	n of subcomponents).	Undate As-built information as required	Archive as built information
I Information Exchanges			(f.i. adjustment of the brief in case of adjustment of services if necessary)	of stage report for client approval. Consider change of the brief.	end of stage report for client approval.	of stage report for client approval.	of stage report for client approval.	contractors. Compile As-built information	opone na oun internation as required	A STATE OF DURING HIS AND THE REAL

ACE Scope of Services

ZBORNICA ZA		Pre-C	Design		Des	ign		Construction	Handover	In Use	End of Life
ARHITEKTURO IN PROSTOR		0	1	2		3	4	5	6	7	
SLOVENIJE	RIBA (UK)	Strategic Definition	Preparation and Brief	Concept Design	NOT USED	Developed Design	Technical Design	Construction	Handover & Close Out	In Use	NOT USED
	ACE	0	1	21	22	2.3	2.4	3		4	5
	(Europe)	Initiative	Initiation	Concept Design	Preliminary Design	Developed Design	Detailed Design	Construction	NOT USED	Building Use	End of Life
				-		-	-	-			
	AIA (USA)	NOT USED	NOT USED	Schernatic Design	NOT USED	Design Development	Construction Documents	Construction	NOT USED	NOT USED	NOT USED
		0	1	2		3	4	5	6	7	
	APM (Global)	Strategy	Outcome Definition	Feasibility	NOT USED	Concept Design	Detailed Design	Delivery	Project Close	Benefits Realisation	NOT USED
				-			-	-	-		
	Spain	NOT USED	NOT USED	Proyecto Básico	NOT USED	NOT USED	Proyecto de Ejecución	Dirección de Obra	Final de Obra	NOT USED	NOT USED
	NATSPEC		-	-	-	-	-	-		-	
	(Aus)	NOT USED	Establishment	Concept Design	Schematic Design	Design Development	Contract Documentation	Construction	NOT USED	Facility Management	NOT USED
			-	-	-	-	-	-		-	
	NZCIC (NZ)	NOT USED	Pre-Design	Concept Design	Preliminary Design	Developed Design	Detailed Design	Construct	NOT USED	Operate	NOT USED
				-	-	-	-	-			
	Russia	NOT USED	NOT USED	AGR Stage	Stage P	Tender Stage	Construction Documents	Construction	NOT USED	NOT USED	NOT USED
	Court		1	2	3	-	4	5			
	South Africa	NOT USED	Inception	Concept and Viability	Design Development	NOT USED	Documentation	Construction	Close Out	NOT USED	NOT USED

# SIST EN 16310:2013

Stages and substages in the life cycle of built assets



#### Scope of CCA Inte Zagreb, C October

## 0 INITIATIVE

the need for a facility emerges and is established

## **1 INITIATION**

the context of the facility or product to be developed is identified and the requirements are defined

## 2 DESIGN

the client's and/or the end users' ambitions, requirements, and applicable regulatory requirements are transformed into the specification for building the asset, to be agreed before its construction

## **3 PROCUREMENT**

fabrication / construction / installation sites are provided with equipment and materials and fabrication / construction / installation contracts are awarded

## **4 CONSTRUCTION**

the design is converted into a built asset that complies with the contract documents and applicable regulatory requirements

## 5 USE

the built asset is being used and maintained 6 END OF LIFE

the built asset is revamped or dismantled after it's functional and/or economic life span



# HOAI 2013-Textausgabe/ HOAI 2013-Text Edition

Honorarordnung für Architekten und Ingenieure vom 10. Juli 2013/Official Scale of Fees for Services by Architects and Engineers dated July 10, 2013

5. Auflage



Grundleistungen	Besondere Leistungen
LPH 4 Genehmigungsplanung	
<ul> <li>a) Erarbeiten und Zusammenstellen der Vorlagen und Nachweise für öffentlich- rechtliche Genehmigungen oder Zustim- mungen einschließlich der Anträge auf Ausnahmen und Befreiungen, sowie not- wendiger Verhandlungen mit Behörden unter Verwendung der Beiträge anderer an der Planung fachlich Beteiligter</li> <li>b) Einreichen der Vorlagen</li> <li>c) Ergänzen und Anpassen der Planungs- unterlagen, Beschreibungen und Berech- nungen</li> </ul>	<ul> <li>Mitwirken bei der Beschaffung der nach- barlichen Zustimmung</li> <li>Nachweise, insbesondere technischer, konstruktiver und bauphysikalischer Art für die Erlangung behördlicher Zustimmungen im Einzelfall</li> <li>Fachliche und organisatorische Unterstüt- zung des Bauherrn im Widerspruchsverfah- ren, Klageverfahren oder ähnlichen Verfah- ren</li> </ul>
LPH 5 Ausführungsplanung	
a) Erarbeiten der Ausführungsplanung mit allen für die Ausführung notwendigen Einzelangaben (zeichnerisch und textlich) auf der Grundlage der Entwurfs- und Ge- nehmigungsplanung bis zur ausführungsrei-	<ul> <li>Aufstellen einer detaillierten Objektbe- schreibung als Grundlage der Leistungsbe- schreibung mit Leistungsprogrammx)</li> <li>Prüfen der vom bauausführenden Unter-</li> </ul>
fen Lösung, als Grundlage für die weiteren Leistungsphasen b) Ausführungs-, Detail- und Konstruk-	nehmen auf Grund der Leistungsbeschrei- bung mit Leistungsprogramm ausgearbeiteten Ausführungspläne auf Übereinstimmung mit der Entwurfsplanung <sup>x)</sup>
tionszeichnungen nach Art und Größe des Objekts im erforderlichen Umfang und Detaillierungsgrad unter Berücksichtigung	<ul> <li>Fortschreiben von Raumbüchern in detail- lierter Form</li> <li>Mitwirken beim Anlagenkennzeichnungs-</li> </ul>
aller fachspezifischen Anforderungen, zum Beispiel bei Gebäuden im Maßstab 1:50 bis 1:1, zum Beispiel bei Innenräumen im	<ul> <li>- Nitwirken beim Amagenkennzerennungs- system (AKS)</li> <li>- Prüfen und Anerkennen von Plänen Dritter.</li> </ul>
Maßstab 1:20 bis 1:1	nicht an der Planung fachlich Beteiligter auf
c) Bereitstellen der Arbeitsergebnisse als Grundlage für die anderen an der Planung fachlich Beteiligten, sowie Koordination und Integration von deren Leistungen	Übereinstimmung mit den Ausführungsplä- nen (zum Beispiel Werkstattzeichnungen von Unternehmen, Aufstellungs- und Funda- mentpläne nutzungsspezifischer oder be- triebstechnischer Anlagen), soweit die Leis-
d) Fortschreiben des Terminplans	tungen Anlagen betreffen, die in den anre-
e) Fortschreiben der Ausführungsplanung aufgrund der gewerkeorientierten Bearbei- tung während der Objektausführung	chenbaren Kosten nicht erfasst sind <sup>x)</sup> Diese Besondere Leistung wird bei Leis- tungsbeschreibung mit Leistungsprogramm
f) Überprüfen erforderlicher Montagepläne der vom Objektplaner geplanten Baukons- truktionen und baukonstruktiven Einbauten auf Übereinstimmung mit der Ausfüh- rungsplanung	ganz oder teilweise Grundleistung. In diesem Fall entfallen die entsprechenden Grundleis- tungen dieser Leistungsphase.

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# Scope of Services

POSEBNE STORITVE

B. PROJEKTIRANJE

stroškov.

vplivi na okolje.

A. VODENJE PROJEKTIRANJA

za zamenjavo projektanta.

rabe obnovljive energije.

- Seznanitev s predhodnimi fazami, kadar gre

Svetovanje o nadaljnjih postopkih in storitvah.

- Izdelava razvitega idejnega projekta (rIDP).

- Izdelava dodatnih vsebin IDP za objekte z

- Dopolnitev IDP po posebnih zahtevah ozi-

roma za načrtovanje posebnih ukrepov za

ki presegajo običajna merila projektiranja,

Izdelava variantnih rešitev IDP (glede na

optimizacijo stavbe in gradbene konstrukcije,

zaradi zmanjševanja porabe energije, zmanj-

ševanja škodljivih snovi in emisij CO<sub>2</sub>, v korist

drugačne zahteve investitorja ali zaradi spre-

membe predpisov), vključno s proračunom

- Analiza variantnih rešitev ter niihovo vredno-

- Izdelava idejnih rešitev usmerjevalnega, infor-

 Izdelava in usklajevanje podlag za vključevanje tretjih oseb (strokovnjakov, s katerimi

- Sodelovanje pri pripravi povzetkov stroškov

- Izdelava oziroma uporaba posebnih predsta-

investitor sklene direktno pogodbo).

- Posodobitev kataloga prostorov.

ter prikazov za trženje in prodajo.

mativnega in opozorilnega sistema v objektu.

tenje in analiza stroškov, optimizacija.



ST 28PS 01-2021

2.2 IDEJNO PROJEKTIRANJE

# OSNOVNE STORITVE A. VODENJE PROJEKTIRANJA 1. Določitev strukture in vsebine idejnega assielte (IDD)

- projekta (IDP). 15. Koordinacija drugih strokovnjakov, ki sodelujejo pri projektiranju.
- Priprava podlag in podatkov za druge strokovne udeležence pri projektiranju ter usklajevanje, umeščanje in integracija njihovih rešitev.
- Povzemanje, pojasnjevanje in dokumentiranje rešitev.
   Priprava podatkov in predlogov za
- posodobitev projektne naloge.

#### B. PROJEKTIRANJE

- Izdelava idejnega projekta (IDP) ob nadaljnjem upoštevanju ključnih povezav,
- danosti in pogojev (na primer urbanističnih, oblikovalskih, funkcionalnih, tehničnih, ekonomskih, ekoloških, socialnih, javnopravnih) na podlagi idejne zasnove (IDZ).
- Usklajevanje z zahtevami in pogoji soglasodajalcev oziroma mnenjedajalcev.
   Predstavitev idejnega projekta.

#### E. EKONOMIKA GRADNJE

 Proračun stroškov gradnje in primerjava s stroškovnim okvirjem in oceno stroškov.

#### F. TERMINSKI NAČRT

- 2. Posodobitev terminskega načrta graditve.
  - vitvenih pripomočkov, na primer: – predstavitvenih maket,
  - perspektivnih prikazov,
  - animacij,
  - barvnih in materialnih kart.
     Uporaba BIM pristopa, stopnja LOD 200-300.
  - Recenzija projektne dokumentacije.

#### E. EKONOMIKA GRADNJE

- Izdelava poglobljenega izračuna stroškov gradnje.
- Poročilo o izvajanju investicijskega projekta.
- Priprava in izvedba informativnega razpisa
- del.

#### F. TERMINSKI NAČRT

Izdelava terminskega načrta gradnje.

EBORNICA ZA Nahitekturo N Prostor Ilovenilie

24



ZBORNICA ZA ARHITEKTURO IN PROSTOR SLOVENUE ARHIGRAM 5	ARHITEKTURO IN PROSTOR	- Arhigram
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Vrednotenje storitev na področju arhitekturnega in krajinskoarhitekturnega projektiranja V 5.16 MAJ 2021

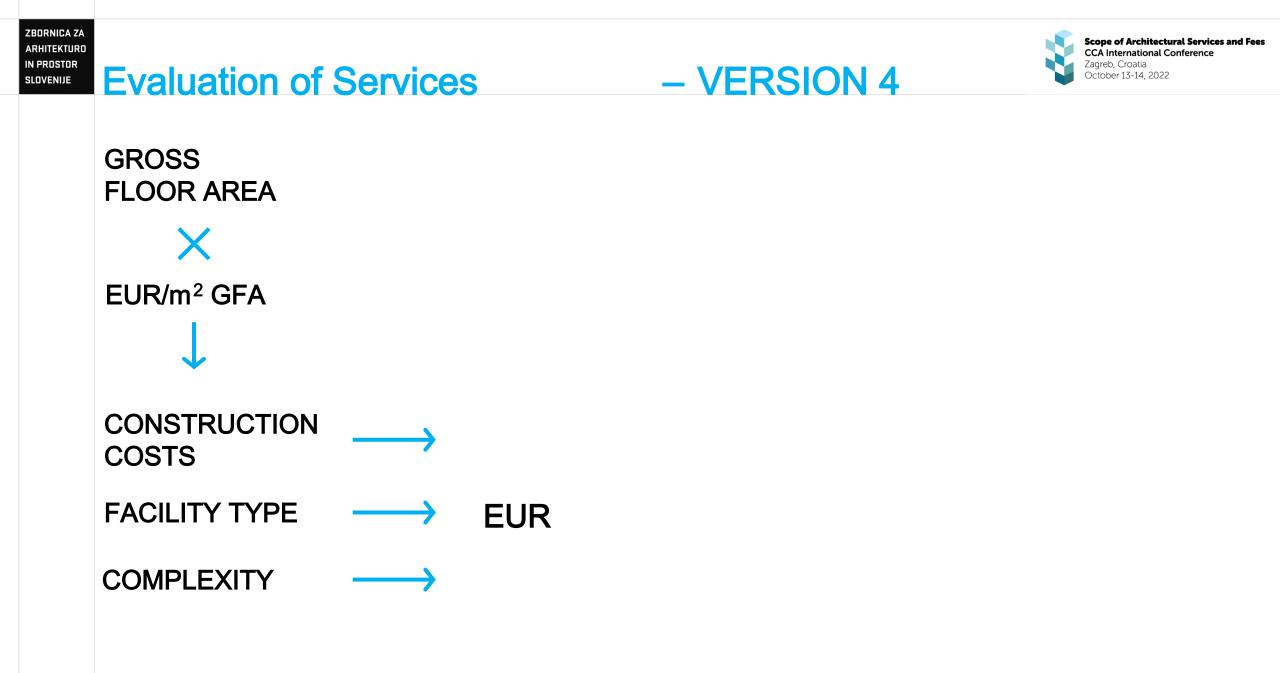
Ana Pupedan
Slovenska 1, 1000 Ljubljana
ARHITEKT d.o.o.
vilablok
20/02/2021

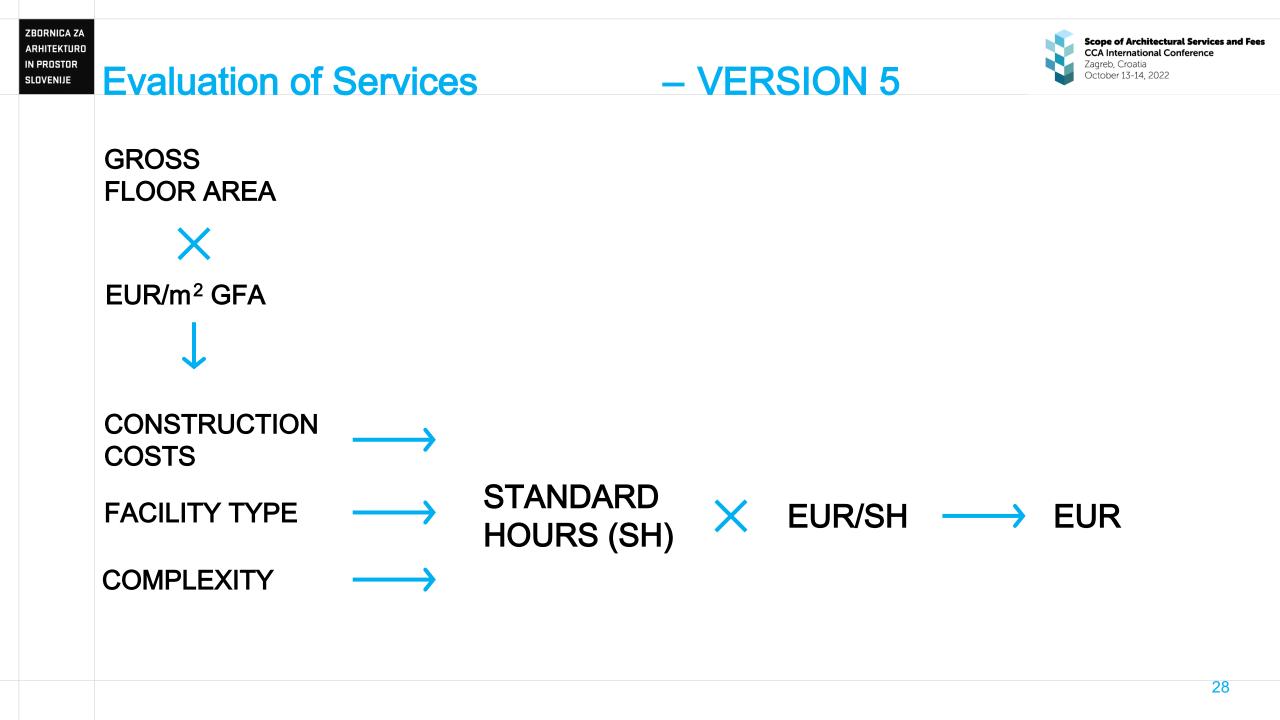
#### **OSNOVNE STORITVE**

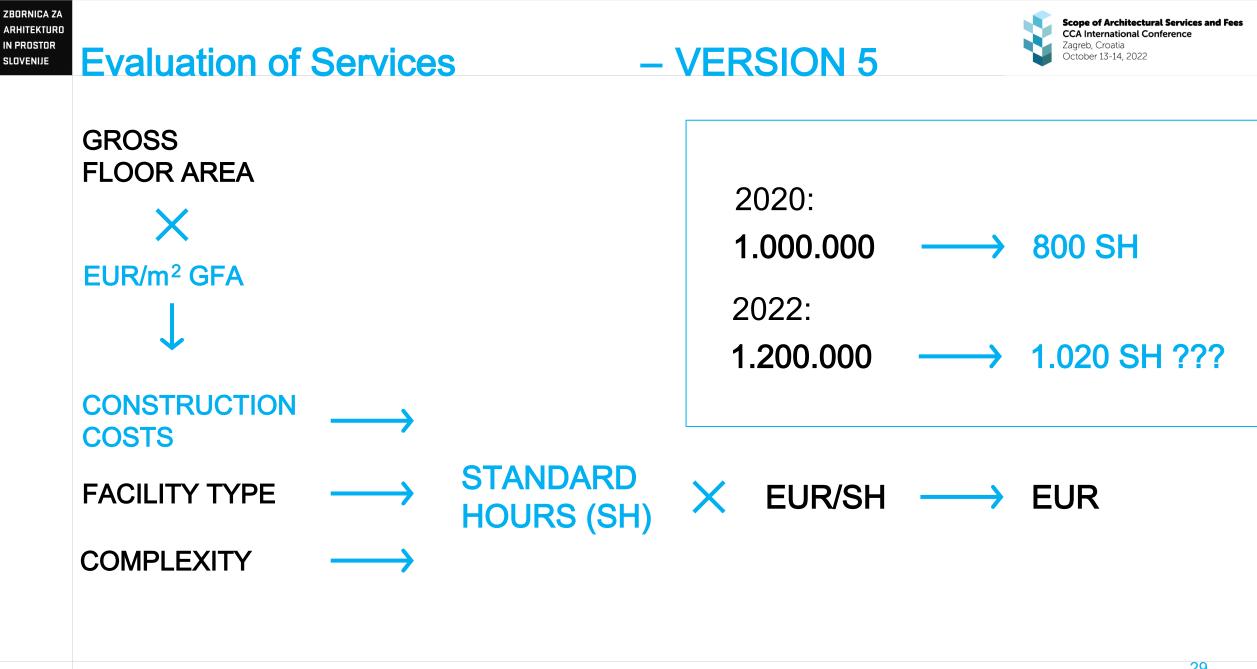
50,00
Vpiši vrednost

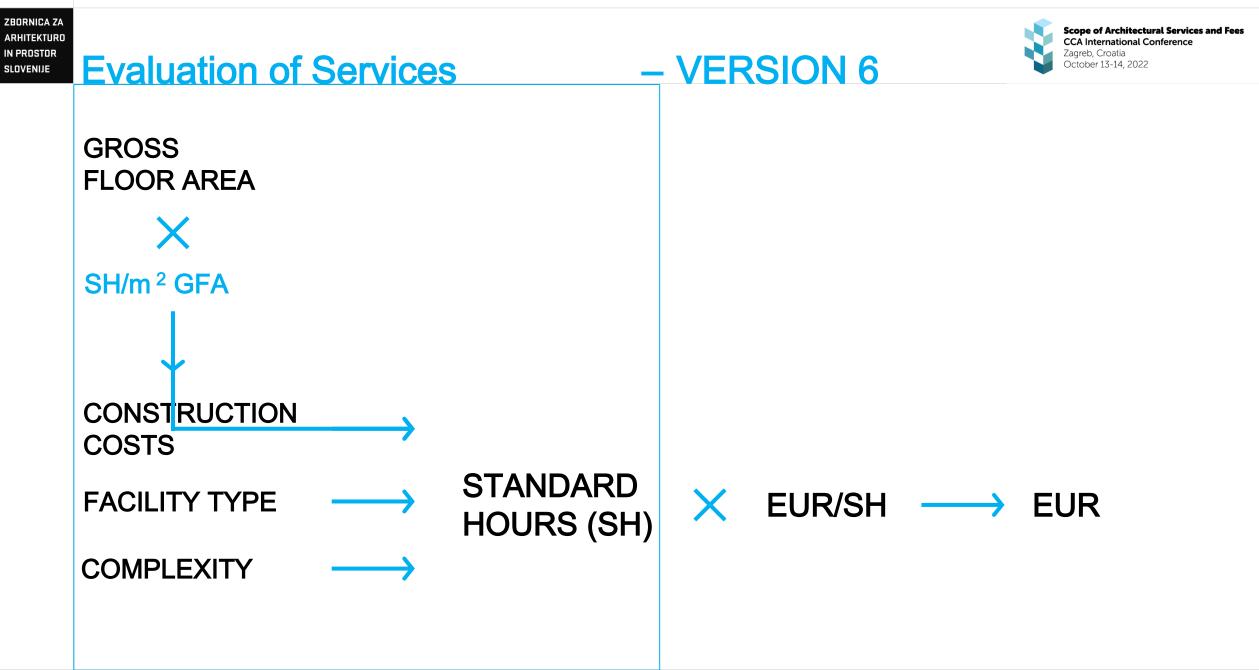
		VKLJUČI V IZRAČUN	ŠTEVILO NU VRE	
1	ZAGON	IZRACON	296	14.776
2	PROJEKTIRANJE	<b>v</b>	5730	286.493
2.1	SNOVANJE		155	7.746
	IDEJNA ZASNOVA (IDZ):			
	NAČRT ARHITEKTURE		155	7.746
	NAČRT ARHITEKTURE - ODPRTI PROSTOR		0	0
	NAČRT NOTRANJE OPREME		0	0
	NAČRT KRAJINSKE ARHITEKTURE		0	0
	NAČRT GRADBENIH KONSTRUKCIJ		0	0
	NAČRT ELEKTRIČNIH INŠTALACIJ		0	0
	NAČRT STROJNIH INŠTALACIJ		0	0
	NAČRT TEHNOLOGIJE		0	0
	POŽARNA VARNOST		0	0
	UČINKOVITA RABA ENERGIJE		0	0
	ZAŠČITA PRED HRUPOM		0	0
	PROSTORSKA AKUSTIKA		0	0
2.2	IDEJNO PROJEKTIRANJE		413	20.656
	IDEJNI PROJEKT (IDP):			
	NAČRT ARHITEKTURE		413	20.656
	NAČRT ARHITEKTURE - ODPRTI PROSTOR		0	0
	NAČRT NOTRANJE OPREME		0	0
	NAČRT KRAJINSKE ARHITEKTURE		0	0
	NAČRT GRADBENIH KONSTRUKCIJ		0	0
	NAČRT ELEKTRIČNIH INŠTALACIJ		0	0
	NAČRT STROJNIH INŠTALACIJ		0	0
	NAČRT TEHNOLOGIJE		0	0
	POŽARNA VARNOST		0	0
	UČINKOVITA RABA ENERGIJE		0	0
	ZAŠČITA PRED HRUPOM		0	0
	PROSTORSKA AKUSTIKA		0	0
2.3	PRIPRAVA DOKUMENTACIJE ZA DOVOLJEVANJE		522	26.100

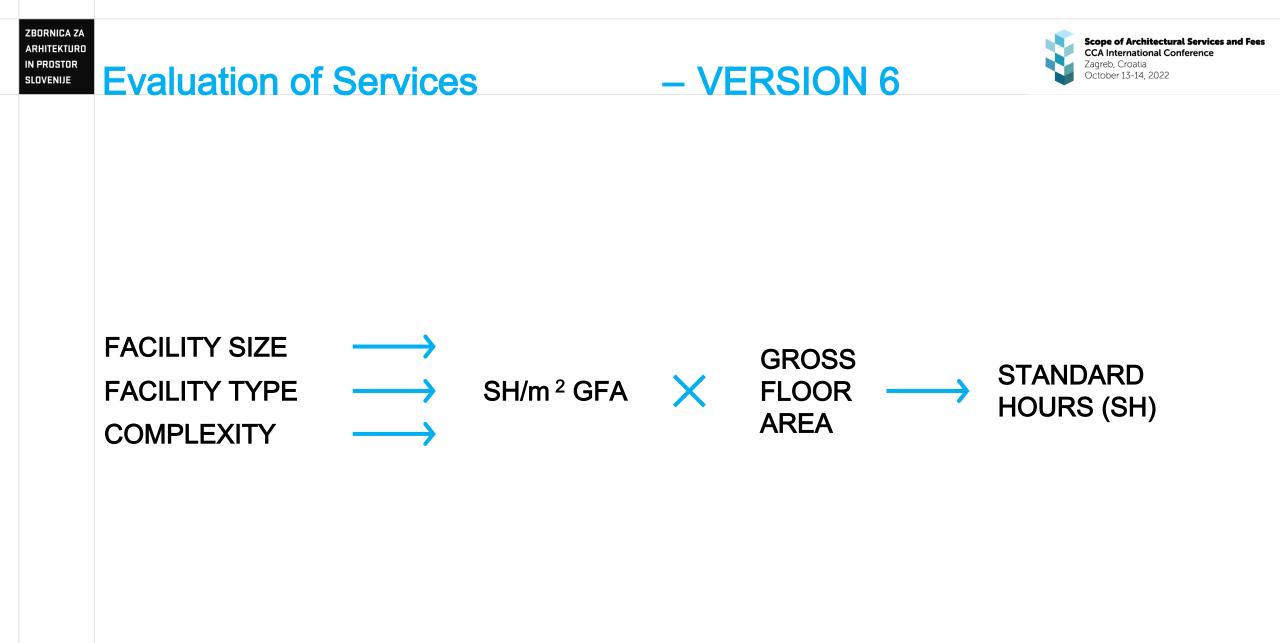










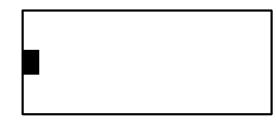


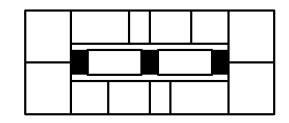




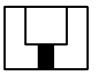


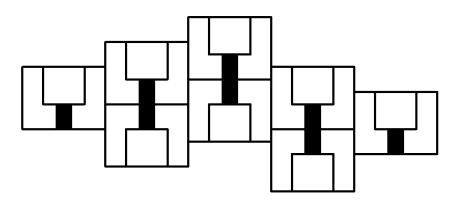
# FACILITY TYPE





## FACILITY SIZE







# Arhigram 6



# **Achievements**

**ZBORNICA ZA** 

ARHITEKTURD

IN PROSTOR

SLOVENIJE

Achievements in Slovenia:

- Arhigram 5 is used to calculate contract values for projects resulting from public architectural competitions,
- Regular courses about the use of standard for members of the chamber,
- Standard is used for professional supervision.



# Conclusion

ZBORNICA ZA

SLOVENIJE

The establishment of a standard or the rules of the profession is essential for:

- enabling comparable services,
- obtaining comparable offers,
- preventing dumping,
- encouraging employment in architectural offices,
- improving the social and material position of architects.

Standard or the rules of the profession must include:

- scope of services with description of services,
- fee calculation rules,
- detailed content of architectural plans,
- instructions for drawing architectural plans.



