Příloha B – Dokumentace tepelného modelu dvojité fasády

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Synopsis

Synopsis of the model dvojita fasada defined in fasada.cfg generated on Sat
Jun 15 13:24:46 2019. Associated notes are in ../doc/fasada.log

The model is located at latitude   50.04 with a longitude difference of  -0.58
from the local time meridian (east +ve). The year used in simulations is 2003
and weekends occur on Saturday and Sunday.

The site exposure is typical city centre and the ground reflectance is 0.20.


The climate is: CZ Praha-Karlov and is held in: ../dbs/cz_prague2003 with hour
centred solar data.
 annual weather         : ../dbs/cz_prague2003
Calculated ground temperature at depth
  0.5 m: 4.1522 0.40569 -0.61413 0.27038 5.3287 10.994 16.324 20.183 21.310 19.497 15.130 9.6239
  1.0 m: 5.4813 1.7444 0.41120 0.90126 5.0338 10.053 15.005 18.836 20.309 19.097 15.459 10.574
  1.5 m: 6.5973 2.9468 1.4030 1.5820 4.9216 9.3418 13.902 17.630 19.335 18.608 15.603 11.293
  2.0 m: 7.5204 4.0103 2.3386 2.2782 4.9482 8.8239 12.993 16.566 18.413 18.068 15.604 11.819
  2.5 m: 8.2721 4.9380 3.2034 2.9640 5.0764 8.4645 12.255 15.641 17.558 17.507 15.499 12.186
  3.0 m: 8.8749 5.7375 3.9898 3.6212 5.2755 8.2328 11.667 14.846 16.777 16.947 15.321 12.424
  3.5 m: 9.3504 6.4190 4.6950 4.2376 5.5203 8.1016 11.205 14.171 16.075 16.406 15.093 12.561
  4.0 m: 9.7189 6.9940 5.3199 4.8059 5.7914 8.0475 10.850 13.602 15.452 15.895 14.837 12.621
  4.5 m: 9.9989 7.4750 5.8683 5.3225 6.0734 8.0510 10.582 13.128 14.903 15.420 14.567 12.622
  5.0 m: 10.207 7.8741 6.3455 5.7870 6.3551 8.0960 10.386 12.736 14.425 14.984 14.295 12.581
  5.5 m: 10.358 8.2031 6.7579 6.2006 6.6286 8.1693 10.245 12.414 14.011 14.591 14.030 12.511
  6.0 m: 10.463 8.4727 7.1124 6.5661 6.8882 8.2607 10.149 12.151 13.654 14.237 13.778 12.423
  6.5 m: 10.533 8.6928 7.4159 6.8873 7.1307 8.3623 10.087 11.937 13.348 13.923 13.541 12.324
  7.0 m: 10.577 8.8719 7.6751 7.1683 7.3543 8.4680 10.050 11.764 13.086 13.645 13.321 12.221
  7.5 m: 10.601 9.0176 7.8962 7.4135 7.5583 8.5736 10.032 11.623 12.862 13.399 13.121 12.117
  8.0 m: 10.612 9.1362 8.0850 7.6271 7.7432 8.6760 10.027 11.509 12.671 13.184 12.939 12.016
  8.5 m: 10.612 9.2332 8.2464 7.8133 7.9097 8.7732 10.032 11.416 12.507 12.994 12.775 11.920
  9.0 m: 10.607 9.3129 8.3850 7.9757 8.0591 8.8642 10.042 11.341 12.366 12.827 12.628 11.831
  9.5 m: 10.597 9.3792 8.5045 8.1178 8.1929 8.9483 10.055 11.278 12.244 12.681 12.495 11.748
 10.0 m: 10.585 9.4348 8.6083 8.2426 8.3125 9.0253 10.070 11.225 12.138 12.552 12.377 11.672

An Integrated Performance View is incomplete or missing.

Databases associated with the model:
 standard pressure distr: pressc.db1
 materials              :  ../dbs/materialdb
 constructions          :  ../dbs/constrdb
 standard plant comp    : plantc.db1
 standard event profiles: profiles.db2.a
 optical properties     : ../dbs/opticdb
 standard UK NCM data   : SBEM.db1
 standard predefined obj: predefined.db1
 standard mould isopleth: mould.db1

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The model includes ideal controls as follows:
Control description:
no overall control description supplied
no zone control description supplied

Zones control includes  1 functions.

The following day types are defined: weekdays    saturday    sunday      holiday

Details of control loops referenced in the model:

 The sensor for function  1 senses the temperature of the current zone.
 The actuator for function  1 is air point of the current zone
 >  1 periods of validity during the year have been defined.
 Control is valid Wed-01-Jan to Wed-31-Dec, 2003 with  1 periods.

 Per|Start|Sensing  |Actuating  | weekdays control laws
   1  0.00 db temp   > flux      free floating
```

Zone to contol loop linkages:

zone (1)	3r	<< control	1
zone (2)	3u	<< control	1
zone (3)	3n	<< control	1
zone (4)	4r	<< control	1
zone (5)	4u	<< control	1
zone (6)	4n	<< control	1
zone (7)	5n	<< control	1
zone (8)	5r	<< control	1
zone (9)	5u	<< control	1
zone (10)	6r	<< control	1
zone (11)	6u	<< control	1
zone (12)	6n	<< control	1
zone (13)	7r	<< control	1
zone (14)	7u	<< control	1
zone (15)	7n	<< control	1

The model includes an air flow network.

Flow network description.

31 nodes, 41 components, 41 connections; wind reduction = 1.000

#	Node	Fluid	Node Type	X	Y	Z Position	Temperature	Data_1		Data_2	
1	3r	air	internal & unknown	0.0000	0.0000	10.9890	20.000	(-)	1.000	vol	14.130
2	3u	air	internal & unknown	0.0000	0.0000	10.9890	20.000	(-)	1.000	vol	46.830
3	3n	air	internal & unknown	0.0000	0.0000	10.9890	20.000	(-)	1.000	vol	26.645
4	4r	air	internal & unknown	0.0000	0.0000	14.6590	20.000	(-)	1.000	vol	14.130
5	4u	air	internal & unknown	0.0000	0.0000	14.6590	20.000	(-)	1.000	vol	46.830
6	4n	air	internal & unknown	0.0000	0.0000	14.6590	20.000	(-)	1.000	vol	26.645
7	5n	air	internal & unknown	0.0000	0.0000	18.3290	20.000	(-)	1.000	vol	26.645
8	5r	air	internal & unknown	0.0000	0.0000	18.3290	20.000	(-)	1.000	vol	14.130
9	5u	air	internal & unknown	0.0000	0.0000	18.3290	20.000	(-)	1.000	vol	46.830
10	6r	air	internal & unknown	0.0000	0.0000	21.9990	20.000	(-)	1.000	vol	14.130
11	6u	air	internal & unknown	0.0000	0.0000	21.9990	20.000	(-)	1.000	vol	46.830
12	6n	air	internal & unknown	0.0000	0.0000	21.9990	20.000	(-)	1.000	vol	26.645
13	7r	air	internal & unknown	0.0000	0.0000	25.6690	20.000	(-)	1.000	vol	14.130
14	7u	air	internal & unknown	0.0000	0.0000	25.6690	20.000	(-)	1.000	vol	46.830
15	7n	air	internal & unknown	0.0000	0.0000	25.6690	20.000	(-)	1.000	vol	26.645
16	3jz	air	boundary & wind ind	0.0000	0.0000	10.9890	0.0000	coef	18.000	azim	230.000
17	4jz	air	boundary & wind ind	0.0000	0.0000	14.6590	0.0000	coef	18.000	azim	230.000
18	5jz	air	boundary & wind ind	0.0000	0.0000	18.3290	0.0000	coef	18.000	azim	230.000
19	6jz	air	boundary & wind ind	0.0000	0.0000	21.9990	0.0000	coef	18.000	azim	230.000
20	7jz	air	boundary & wind ind	0.0000	0.0000	25.6690	0.0000	coef	18.000	azim	230.000
21	3jv	air	boundary & wind ind	0.0000	0.0000	10.9890	0.0000	coef	23.000	azim	140.000
22	4jv	air	boundary & wind ind	0.0000	0.0000	14.6590	0.0000	coef	23.000	azim	140.000
23	5jv	air	boundary & wind ind	0.0000	0.0000	18.3290	0.0000	coef	23.000	azim	140.000
24	6jv	air	boundary & wind ind	0.0000	0.0000	21.9990	0.0000	coef	23.000	azim	140.000
25	7jv	air	boundary & wind ind	0.0000	0.0000	25.6690	0.0000	coef	23.000	azim	140.000
26	3spn	air	boundary & wind ind	0.0000	0.0000	10.9890	0.0000	coef	18.000	azim	230.000
27	3spr	air	boundary & wind ind	0.0000	0.0000	8.2540	0.0000	coef	18.000	azim	185.000
28	3spu	air	boundary & wind ind	0.0000	0.0000	10.9890	0.0000	coef	23.000	azim	140.000
29	7vrn	air	boundary & wind ind	0.0000	0.0000	28.4040	0.0000	coef	6.000	azim	50.000
30	7vrr	air	boundary & wind ind	0.0000	0.0000	28.4040	0.0000	coef	6.000	azim	5.000
31	7vru	air	boundary & wind ind	0.0000	0.0000	28.4040	0.0000	coef	6.000	azim	320.000

Component	Type	C+	L+	Description	
3no	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					
3uo	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					
4no	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					
4uo	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					
5no	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					
5uo	110	2	0	Specific air flow opening	m = rho.f(A,dP)
Fluid 1.0 opening area(m) 0.037					

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6no           110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.037

6uo           110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.037

7no           110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.037

7uo           110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.037

3spno         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.124

3spro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.086

3spuo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.218

7vrhno        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.135

7vrhro        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.094

7vrhuo        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.238

3n3ro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

3r3uo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

4n4ro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

4r4uo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

5n5ro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

5r5uo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

6n6ro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

6r6uo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

7n7ro         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

7r7uo         110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  4.037

3n4no         210  6  0 General flow conduit component     m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.886    7.260    3.670    0.000    0.160

4n5no         210  6  0 General flow conduit component     m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.886    7.260    3.670    0.000    0.160

5n6no         210  6  0 General flow conduit component     m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.886    7.260    3.670    0.000    0.160

6n7no         210  6  0 General flow conduit component     m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.886    7.260    3.670    0.000    0.160
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3r4ro         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.674    3.850    3.670    0.000    0.160

4r5ro         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.674    3.850    3.670    0.000    0.160

5r6ro         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.674    3.850    3.670    0.000    0.160

6r7ro         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    1.674    3.850    3.670    0.000    0.160

3u4uo         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    2.009   12.760    3.670    0.000    0.160

4u5uo         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    2.009   12.760    3.670    0.000    0.160

5u6uo         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    2.009   12.760    3.670    0.000    0.160

6u7uo         210  6  0 General flow conduit component      m = rho.f(D,A,L,k,SCi)
  Fluid, hydr diam, x-sect, conduit ln, roughness, loss fac.
 1.0    2.009   12.760    3.670    0.000    0.160

7vrdno        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.098

7vrdro        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.068

7vrduo        110  2  0 Specific air flow opening          m = rho.f(A,dP)
Fluid  1.0 opening area(m)  0.173
```

#	+Node	dHght	-Node	dHght	Component	Z @+	Z @-
1	3jz	0.000	3n	0.000	3no	10.989	10.989
2	4jz	0.000	4n	0.000	4no	14.659	14.659
3	5jz	0.000	5n	0.000	5no	18.329	18.329
4	6jz	0.000	6n	0.000	6no	21.999	21.999
5	7jz	0.000	7n	0.000	7no	25.669	25.669
6	3jv	0.000	3u	0.000	3uo	10.989	10.989
7	4jv	0.000	4u	0.000	4uo	14.659	14.659
8	5jv	0.000	5u	0.000	5uo	18.329	18.329
9	6jv	0.000	6u	0.000	6uo	21.999	21.999
10	7jv	0.000	7u	0.000	7uo	25.669	25.669
11	3spn	0.000	3n	-1.835	3spno	10.989	9.154
12	3spr	0.000	3r	-1.835	3spro	8.254	9.154
13	3spu	0.000	3u	-1.835	3spuo	10.989	9.154
14	7n	1.835	7vrn	0.000	7vrdno	27.504	28.404
15	7r	1.835	7vrr	0.000	7vrdro	27.504	28.404
16	7u	1.835	7vru	0.000	7vrduo	27.504	28.404
17	3n	0.000	3r	0.000	3n3ro	10.989	10.989
18	3r	0.000	3u	0.000	3r3uo	10.989	10.989
19	4n	0.000	4r	0.000	4n4ro	14.659	14.659
20	4r	0.000	4u	0.000	4r4uo	14.659	14.659
21	5n	0.000	5r	0.000	5n5ro	18.329	18.329
22	5r	0.000	5u	0.000	5r5uo	18.329	18.329
23	6n	0.000	6r	0.000	6n6ro	21.999	21.999
24	6r	0.000	6u	0.000	6r6uo	21.999	21.999
25	7n	0.000	7r	0.000	7n7ro	25.669	25.669
26	7r	0.000	7u	0.000	7r7uo	25.669	25.669
27	3n	1.835	4n	-1.835	3n4no	12.824	12.824
28	4n	1.835	5n	-1.835	4n5no	16.494	16.494
29	5n	1.835	6n	-1.835	5n6no	20.164	20.164
30	6n	1.835	7n	-1.835	6n7no	23.834	23.834
31	3r	1.835	4r	-1.835	3r4ro	12.824	12.824
32	4r	1.835	5r	-1.835	4r5ro	16.494	16.494
33	5r	1.835	6r	-1.835	5r6ro	20.164	20.164
34	6r	1.835	7r	-1.835	6r7ro	23.834	23.834

```
   35 3u            1.835   4u           -1.835   3u4uo          12.824  12.824
   36 4u            1.835   5u           -1.835   4u5uo          16.494  16.494
   37 5u            1.835   6u           -1.835   5u6uo          20.164  20.164
   38 6u            1.835   7u           -1.835   6u7uo          23.834  23.834
   39 7n            1.835   7vrn          0.000   7vrhno         27.504  28.404
   40 7r            1.835   7vrr          0.000   7vrhro         27.504  28.404
   41 7u            1.835   7vru          0.000   7vrhuo         27.504  28.404
thermal zone to air flow node mapping:
thermal zone -> air flow node
3r           -> 3r
3u           -> 3u
3n           -> 3n
4r           -> 4r
4u           -> 4u
4n           -> 4n
5n           -> 5n
5r           -> 5r
5u           -> 5u
6r           -> 6r
6u           -> 6u
6n           -> 6n
7r           -> 7r
7u           -> 7u
7n           -> 7n
```

ID	Zone Name	Volume| m^3	No.	Opaque	Transp	~Floor	
1	3r	14.1	8	12.7	28.8	3.8	3nproh
2	3u	46.8	6	59.4	59.4	12.8	3npulice
3	3n	26.6	6	35.5	35.5	7.3	3npnamesti
4	4r	14.1	8	8.8	32.7	3.8	roh4np
5	4u	46.8	6	46.6	72.1	12.8	4npulice
6	4n	26.6	6	28.3	42.8	7.3	4n
7	5n	26.6	6	28.3	42.8	7.3	5n
8	5r	14.1	8	8.8	32.7	3.8	5r
9	5u	46.8	6	46.6	72.1	12.8	5u
10	6r	14.1	8	8.8	32.7	3.8	6r
11	6u	46.8	6	46.6	72.1	12.8	6u
12	6n	26.6	6	28.3	42.8	7.3	6n
13	7r	14.1	8	12.7	28.8	3.8	7r
14	7u	46.8	6	59.4	59.4	12.8	7u
15	7n	26.6	6	35.5	35.5	7.3	7n
	all	438.	100	466.	690.	119.	

Zone 3r (1) is composed of 8 surfaces and 12 vertices.
It encloses a volume of 14.1m^3 of space, with a total surface
area of 41.5m^2 & approx floor area of 3.85m^2
3nproh
There is 20.732m2 of exposed surface area, 16.882m2 of which is vertical.
Facade opaque is 3.8500m2 & 100.0 % of floor area & average U of 0.348 & UA of 1.3395.
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639

A summary of the surfaces in 3r(1) follows:

Sur	Area m^2	Azim deg	Elev deg	surface name	geometry optical	locat	use		construction name	environment other side	
1	8.44	140.	0.	Wall-1	ext_sklo	VERT	-	-	sklo	||< external	
2	4.04	50.	0.	Wall-2	SC_ficti	VERT	-	-	fiktivni	||< Wall-4:3u	
3	4.40	320.	0.	Wall-3	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC &	0W rad
4	4.40	50.	0.	Wall-4	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC &	0W rad
5	4.04	320.	0.	Wall-5	SC_ficti	VERT	-	-	fiktivni	||< Wall-1:3n	
6	8.44	230.	0.	Wall-6	ext_sklo	VERT	-	-	sklo	||< external	
7	3.85	0.	90.	Top-7	SC_ficti	CEIL	-	-	fiktivni	||< Base-8:4r	
8	3.85	0.	-90.	Base-8	OPAQUE	FLOR	-	-	spodek	||< external	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Wall-6 Base-8
Insolation sources (all applicable):
Wall-1 Wall-6

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Ventilation & infiltration is assessed via network analysis
and the associated network node is: 3r

Notes:
Nothing happens in this zone i.e. no occupants lights and small power.
Initial period of 0-24 hour for each.

Daytype	Gain No.	Label	Type	Unit	Period Hours	Sensible Magn.(W)	Latent Magn.(W)	Radiant Fraction	Convec Fraction
weekdays	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
weekdays	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
weekdays	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
saturday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
saturday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
saturday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
sunday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
sunday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
sunday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
holiday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
holiday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
holiday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60

Zone 3u (2) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 46.8m^3 of space, with a total surface
area of 119.m^2 & approx floor area of 12.8m^2
3npulice
There is 55.332m2 of exposed surface area, 42.572m2 of which is vertical.
Facade opaque is 12.760m2 & 100.0 % of floor area & average U of 0.348 & UA of 4.4394.
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09

A summary of the surfaces in 3u(2) follows:

Sur	Area m^2	Azim deg	Elev deg	surface name	geometry optical	locat	use		construction name	environment other side
1	42.6	140.	0.	Wall-1	ext_sklo	VERT	-	-	sklo	||< external
2	4.04	50.	0.	Wall-2	OPAQUE	VERT	-	-	boky	||< constant @ 26dC & 0W rad
3	42.6	320.	0.	Wall-3	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC & 0W rad
4	4.04	230.	0.	Wall-4	SC_ficti	VERT	-	-	fiktivni	||< Wall-2:3r
5	12.8	0.	90.	Top-5	SC_ficti	CEIL	-	-	fiktivni	||< Base-6:4u
6	12.8	0.	-90.	Base-6	OPAQUE	FLOR	-	-	spodek	||< external

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Base-6
Insolation sources (all applicable):
Wall-1

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Ventilation & infiltration is assessed via network analysis
and the associated network node is: 3u

Notes:
Nothing happens in this zone i.e. no occupants lights and small power.
Initial period of 0-24 hour for each.

Daytype	Gain No.	Label	Type	Unit	Period Hours	Sensible Magn.(W)	Latent Magn.(W)	Radiant Fraction	Convec Fraction
weekdays	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
weekdays	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
weekdays	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
saturday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
saturday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
saturday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
sunday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
sunday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
sunday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
holiday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
holiday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
holiday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60

Zone 3n (3) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 26.6m^3 of space, with a total surface
area of 71.0m^2 & approx floor area of 7.26m^2
3npnamesti
There is 31.482m2 of exposed surface area, 24.222m2 of which is vertical.
Facade opaque is 7.2600m2 & 100.0 % of floor area & average U of 0.348 & UA of 2.5259.
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48

A summary of the surfaces in 3n(3) follows:

Sur	Area m^2	Azim deg	Elev deg	surface name	geometry optical	locat	use		construction name	environment other side
1	4.04	140.	0.	Wall-1	SC_ficti	VERT	-	-	fiktivni	||< Wall-5:3r
2	24.2	50.	-0.	Wall-2	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC & 0W rad
3	4.04	320.	0.	Wall-3	OPAQUE	VERT	-	-	boky	||< constant @ 26dC & 0W rad
4	24.2	230.	0.	Wall-4	ext_sklo	VERT	-	-	sklo	||< external
5	7.26	0.	90.	Top-5	SC_ficti	CEIL	-	-	fiktivni	||< Base-6:4n
6	7.26	0.	-90.	Base-6	OPAQUE	FLOR	-	-	spodek	||< external

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-4 Base-6
Insolation sources (all applicable):
Wall-4

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0 1.00	blok	NONE

Shading patterns have been calculated for this zone.

Ventilation & infiltration is assessed via network analysis
and the associated network node is: 3n

Notes:
Nothing happens in this zone i.e. no occupants lights and small power.
Initial period of 0-24 hour for each.

Daytype	Gain No.	Label	Type	Unit	Period Hours	Sensible Magn.(W)	Latent Magn.(W)	Radiant Fraction	Convec Fraction
weekdays	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
weekdays	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
weekdays	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
saturday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
saturday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
saturday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
sunday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
sunday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
sunday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60
holiday	1	Occupants	people	W	0-24	0.0	0.0	0.60	0.40
holiday	2	Lights	lighting	W	0-24	0.0	0.0	0.30	0.70
holiday	3	SmallPower	equipment	W	0-24	0.0	0.0	0.40	0.60

Zone 4r (4) is composed of 8 surfaces and 12 vertices.
It encloses a volume of 14.1m^3 of space, with a total surface
area of 41.5m^2 & approx floor area of 3.85m^2
roh4np
There is 16.882m2 of exposed surface area, 16.882m2 of which is vertical.
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639

A summary of the surfaces in 4r(4) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	8.44	140.	0.	Wall-1	ext_sklo	VERT	- -	sklo	||< external
2	4.04	50.	0.	Wall-2	SC_ficti	VERT	- -	fiktivni	||< Wall-4:4u
3	4.40	320.	0.	Wall-3	OPAQUE	VERT	- -	intfas	||< constant @ 26dC & 0W rad
4	4.40	50.	0.	Wall-4	OPAQUE	VERT	- -	intfas	||< constant @ 26dC & 0W rad
5	4.04	320.	0.	Wall-5	SC_ficti	VERT	- -	fiktivni	||< Wall-1:4n
6	8.44	230.	0.	Wall-6	ext_sklo	VERT	- -	sklo	||< external
7	3.85	0.	90.	Top-7	SC_ficti	CEIL	- -	fiktivni	||< Base-8:5r
8	3.85	0.	-90.	Base-8	SC_ficti	FLOR	- -	fiktivni	||< Top-7:3r

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Wall-6
Insolation sources (all applicable):
Wall-1 Wall-6

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3r

Zone 4u (5) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 46.8m^3 of space, with a total surface
area of 119.m^2 & approx floor area of 12.8m^2
4npulice
There is 42.572m2 of exposed surface area, 42.572m2 of which is vertical.
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09

A summary of the surfaces in 4u(5) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	42.6	140.	0.	Wall-1	ext_sklo	VERT	- -	sklo	||< external
2	4.04	50.	0.	Wall-2	OPAQUE	VERT	- -	boky	||< constant @ 26dC & 0W rad
3	42.6	320.	0.	Wall-3	OPAQUE	VERT	- -	intfas	||< constant @ 26dC & 0W rad
4	4.04	230.	0.	Wall-4	SC_ficti	VERT	- -	fiktivni	||< Wall-2:4r
5	12.8	0.	90.	Top-5	SC_ficti	CEIL	- -	fiktivni	||< Base-6:5u
6	12.8	0.	-90.	Base-6	SC_ficti	FLOR	- -	fiktivni	||< Top-5:3u

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1
Insolation sources (all applicable):
Wall-1

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3u

Zone 4n (6) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 26.6m^3 of space, with a total surface
area of 71.0m^2 & approx floor area of 7.26m^2
4n
There is 24.222m2 of exposed surface area, 24.222m2 of which is vertical.
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48

A summary of the surfaces in 4n(6) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	4.04	140.	0.	Wall-1	SC_ficti	VERT	-	fiktivni	||< Wall-5:4r
2	24.2	50.	-0.	Wall-2	OPAQUE	VERT	-	intfas	||< constant @ 26dC & 0W rad
3	4.04	320.	0.	Wall-3	OPAQUE	VERT	-	boky	||< constant @ 26dC & 0W rad
4	24.2	230.	0.	Wall-4	ext_sklo	VERT	-	sklo	||< external
5	7.26	0.	90.	Top-5	SC_ficti	CEIL	-	fiktivni	||< Base-6:5n
6	7.26	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	||< Top-5:3n

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-4
Insolation sources (all applicable):
Wall-4

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3n

Zone 5n (7) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 26.6m^3 of space, with a total surface
area of 71.0m^2 & approx floor area of 7.26m^2
5n
There is 24.222m2 of exposed surface area, 24.222m2 of which is vertical.
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48

A summary of the surfaces in 5n(7) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	4.04	140.	0.	Wall-1	SC_ficti	VERT	-	fiktivni	||< Wall-5:5r
2	24.2	50.	-0.	Wall-2	OPAQUE	VERT	-	intfas	||< constant @ 26dC & 0W rad
3	4.04	320.	0.	Wall-3	OPAQUE	VERT	-	boky	||< constant @ 26dC & 0W rad
4	24.2	230.	0.	Wall-4	ext_sklo	VERT	-	sklo	||< external
5	7.26	0.	90.	Top-5	SC_ficti	CEIL	-	fiktivni	||< Base-6:6n
6	7.26	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	||< Top-5:4n

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-4
Insolation sources (all applicable):
Wall-4

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3n

Zone 5r (8) is composed of 8 surfaces and 12 vertices.
It encloses a volume of 14.1m^3 of space, with a total surface
area of 41.5m^2 & approx floor area of 3.85m^2
5r
There is 16.882m2 of exposed surface area, 16.882m2 of which is vertical.
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639

A summary of the surfaces in 5r(8) follows:

Sur	Area	Azim	Elev	surface	geometry				construction	environment	
	m^2	deg	deg	name	optical	locat	use		name	other side	
1	8.44	140.	0.	Wall-1	ext_sklo	VERT	-	-	sklo	||< external	
2	4.04	50.	0.	Wall-2	SC_ficti	VERT	-	-	fiktivni	||< Wall-4:5u	
3	4.40	320.	0.	Wall-3	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC &	0W rad
4	4.40	50.	0.	Wall-4	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC &	0W rad
5	4.04	320.	0.	Wall-5	SC_ficti	VERT	-	-	fiktivni	||< Wall-1:5n	
6	8.44	230.	0.	Wall-6	ext_sklo	VERT	-	-	sklo	||< external	
7	3.85	0.	90.	Top-7	SC_ficti	CEIL	-	-	fiktivni	||< Base-8:6r	
8	3.85	0.	-90.	Base-8	SC_ficti	FLOR	-	-	fiktivni	||< Top-7:4r	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Wall-6
Insolation sources (all applicable):
Wall-1 Wall-6

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0 1.00	blok	NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3r

Zone 5u (9) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 46.8m^3 of space, with a total surface
area of 119.m^2 & approx floor area of 12.8m^2
5u
There is 42.572m2 of exposed surface area, 42.572m2 of which is vertical.
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09

A summary of the surfaces in 5u(9) follows:

Sur	Area	Azim	Elev	surface	geometry				construction	environment	
	m^2	deg	deg	name	optical	locat	use		name	other side	
1	42.6	140.	0.	Wall-1	ext_sklo	VERT	-	-	sklo	||< external	
2	4.04	50.	0.	Wall-2	OPAQUE	VERT	-	-	boky	||< constant @ 26dC &	0W rad
3	42.6	320.	0.	Wall-3	OPAQUE	VERT	-	-	intfas	||< constant @ 26dC &	0W rad
4	4.04	230.	0.	Wall-4	SC_ficti	VERT	-	-	fiktivni	||< Wall-2:5r	
5	12.8	0.	90.	Top-5	SC_ficti	CEIL	-	-	fiktivni	||< Base-6:6u	
6	12.8	0.	-90.	Base-6	SC_ficti	FLOR	-	-	fiktivni	||< Top-5:4u	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1
Insolation sources (all applicable):
Wall-1

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0 1.00	blok	NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3u

Zone 6r (10) is composed of 8 surfaces and 12 vertices.
It encloses a volume of 14.1m^3 of space, with a total surface
area of 41.5m^2 & approx floor area of 3.85m^2
6r
There is 16.882m2 of exposed surface area, 16.882m2 of which is vertical.
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639

A summary of the surfaces in 6r(10) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment	
	m^2	deg	deg	name	optical	locat	use	name	other side	
1	8.44	140.	0.	Wall-1	ext_sklo	VERT	-	sklo	||< external	
2	4.04	50.	0.	Wall-2	SC_ficti	VERT	-	fiktivni	||< Wall-4:6u	
3	4.40	320.	0.	Wall-3	OPAQUE	VERT	-	intfas	||< constant @ 26dC &	0W rad
4	4.40	50.	0.	Wall-4	OPAQUE	VERT	-	intfas	||< constant @ 26dC &	0W rad
5	4.04	320.	0.	Wall-5	SC_ficti	VERT	-	fiktivni	||< Wall-1:6n	
6	8.44	230.	0.	Wall-6	ext_sklo	VERT	-	sklo	||< external	
7	3.85	0.	90.	Top-7	SC_ficti	CEIL	-	fiktivni	||< Base-8:7r	
8	3.85	0.	-90.	Base-8	SC_ficti	FLOR	-	fiktivni	||< Top-7:5r	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Wall-6
Insolation sources (all applicable):
Wall-1 Wall-6

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0 1.00	blok	NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3r

Zone 6u (11) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 46.8m^3 of space, with a total surface
area of 119.m^2 & approx floor area of 12.8m^2
6u
There is 42.572m2 of exposed surface area, 42.572m2 of which is vertical.
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09
Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09

A summary of the surfaces in 6u(11) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment	
	m^2	deg	deg	name	optical	locat	use	name	other side	
1	42.6	140.	0.	Wall-1	ext_sklo	VERT	-	sklo	||< external	
2	4.04	50.	0.	Wall-2	OPAQUE	VERT	-	boky	||< constant @ 26dC &	0W rad
3	42.6	320.	0.	Wall-3	OPAQUE	VERT	-	intfas	||< constant @ 26dC &	0W rad
4	4.04	230.	0.	Wall-4	SC_ficti	VERT	-	fiktivni	||< Wall-2:6r	
5	12.8	0.	90.	Top-5	SC_ficti	CEIL	-	fiktivni	||< Base-6:7u	
6	12.8	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	||< Top-5:5u	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1
Insolation sources (all applicable):
Wall-1

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0 1.00	blok	NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3u

Zone 6n (12) is composed of 6 surfaces and 8 vertices.
It encloses a volume of 26.6m^3 of space, with a total surface
area of 71.0m^2 & approx floor area of 7.26m^2
6n
There is 24.222m2 of exposed surface area, 24.222m2 of which is vertical.
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48
Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48

A summary of the surfaces in 6n(12) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment	
	m^2	deg	deg	name	optical	locat	use	name	other side	
1	4.04	140.	0.	Wall-1	SC_ficti	VERT	-	fiktivni	|< Wall-5:6r	
2	24.2	50.	-0.	Wall-2	OPAQUE	VERT	-	intfas	|< constant @ 26dC &	0W rad
3	4.04	320.	0.	Wall-3	OPAQUE	VERT	-	boky	|< constant @ 26dC &	0W rad
4	24.2	230.	0.	Wall-4	ext_sklo	VERT	-	sklo	|< external	
5	7.26	0.	90.	Top-5	SC_ficti	CEIL	-	fiktivni	|< Base-6:7n	
6	7.26	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	|< Top-5:5n	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-4
Insolation sources (all applicable):
Wall-4

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3n

Zone 7r (13) is composed of 8 surfaces and 12 vertices.
It encloses a volume of 14.1m^3 of space, with a total surface
area of 41.5m^2 & approx floor area of 3.85m^2
7r
There is 20.732m2 of exposed surface area, 16.882m2 of which is vertical.
Flat roof is 100.00 % of floor area & average U of 0.232 & UA of 0.89446.
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639
Facade glazing is 16.882m2 & 438.5 % of floor & 100.0 % facade with average U of 5.428 & UA of 91.639

A summary of the surfaces in 7r(13) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment	
	m^2	deg	deg	name	optical	locat	use	name	other side	
1	8.44	140.	0.	Wall-1	ext_sklo	VERT	-	sklo	|< external	
2	4.04	50.	0.	Wall-2	SC_ficti	VERT	-	fiktivni	|< Wall-4:7u	
3	4.40	320.	0.	Wall-3	OPAQUE	VERT	-	intfas	|< constant @ 26dC &	0W rad
4	4.40	50.	0.	Wall-4	OPAQUE	VERT	-	intfas	|< constant @ 26dC &	0W rad
5	4.04	320.	0.	Wall-5	SC_ficti	VERT	-	fiktivni	|< Wall-1:7n	
6	8.44	230.	0.	Wall-6	ext_sklo	VERT	-	sklo	|< external	
7	3.85	0.	90.	Top-7	OPAQUE	CEIL	-	vrsek	|< external	
8	3.85	0.	-90.	Base-8	SC_ficti	FLOR	-	fiktivni	|< Top-7:6r	

An hourly solar radiation distribution is used for this zone.
Surfaces (all applicable) for shading analysis:
Wall-1 Wall-6 Top-7
Insolation sources (all applicable):
Wall-1 Wall-6

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

Shading patterns have been calculated for this zone.

Uses same operations as zone 3r

Zone 7u (14) is composed of 6 surfaces and 8 vertices.
 It encloses a volume of 46.8m^3 of space, with a total surface
 area of 119.m^2 & approx floor area of 12.8m^2
 7u
 There is 55.332m2 of exposed surface area, 42.572m2 of which is vertical.
Flat roof is 100.00 % of floor area & average U of 0.232 & UA of 2.9645.
 Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09
 Facade glazing is 42.572m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 231.09

 A summary of the surfaces in 7u(14) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	42.6	140.	0.	Wall-1	ext_sklo	VERT	-	sklo	||< external
2	4.04	50.	0.	Wall-2	OPAQUE	VERT	-	boky	||< constant @ 26dC & 0W rad
3	42.6	320.	0.	Wall-3	OPAQUE	VERT	-	intfas	||< constant @ 26dC & 0W rad
4	4.04	230.	0.	Wall-4	SC_ficti	VERT	-	fiktivni	||< Wall-2:7r
5	12.8	0.	90.	Top-5	OPAQUE	CEIL	-	vrsek	||< external
6	12.8	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	||< Top-5:6u

 An hourly solar radiation distribution is used for this zone.
 Surfaces (all applicable) for shading analysis:
Wall-1 Top-5
 Insolation sources (all applicable):
Wall-1

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

 Shading patterns have been calculated for this zone.

 Uses same operations as zone 3u

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 Zone 7n (15) is composed of 6 surfaces and 8 vertices.
 It encloses a volume of 26.6m^3 of space, with a total surface
 area of 71.0m^2 & approx floor area of 7.26m^2
 7n
 There is 31.482m2 of exposed surface area, 24.222m2 of which is vertical.
Flat roof is 100.00 % of floor area & average U of 0.232 & UA of 1.6867.
 Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48
 Facade glazing is 24.222m2 & 333.6 % of floor & 100.0 % facade with average U of 5.428 & UA of 131.48

 A summary of the surfaces in 7n(15) follows:

Sur	Area	Azim	Elev	surface	geometry			construction	environment
	m^2	deg	deg	name	optical	locat	use	name	other side
1	4.04	140.	0.	Wall-1	SC_ficti	VERT	-	fiktivni	||< Wall-5:7r
2	24.2	50.	-0.	Wall-2	OPAQUE	VERT	-	intfas	||< constant @ 26dC & 0W rad
3	4.04	320.	0.	Wall-3	OPAQUE	VERT	-	boky	||< constant @ 26dC & 0W rad
4	24.2	230.	0.	Wall-4	ext_sklo	VERT	-	sklo	||< external
5	7.26	0.	90.	Top-5	OPAQUE	CEIL	-	vrsek	||< external
6	7.26	0.	-90.	Base-6	SC_ficti	FLOR	-	fiktivni	||< Top-5:6n

 An hourly solar radiation distribution is used for this zone.
 Surfaces (all applicable) for shading analysis:
Wall-4 Top-5
 Insolation sources (all applicable):
Wall-4

Block	X-	Y-	Z-coords	DX-	DY-	DZ-values	Orientation	Opacity	Name	Construction
1	10.9	-13.0	0.0	40.0	1.0	23.4	40.0	0.0	1.00	blok NONE

 Shading patterns have been calculated for this zone.

 Uses same operations as zone 3n

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 Project floor area is 119.35m2, wall area is 23.870m2, window area is 418.38m2.
 Sloped roof area is 0.00m2, flat roof area is 23.870m2, skylight area is 0.00m2.
 In contact with ground 0.00m2.
 There is 466.12m2 of outside surface area, 418.38m2 of which is vertical.

 Outside walls are 20.000 % of floor area & average U of 0.348 & UA of 8.3047 & max MLC thickness 0.000
 Flat roof is 20.000 % of floor area & average U of 0.232 & UA of 5.5456
 Glazing is 350.55 % of floor & 100.00 % facade with average U of 5.428 & UA of 2271.1

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 Multi-layer constructions used:

 Details of transparent construction: fiktivni with SC_fictit optics and overall thickness  0.004

 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
    1    4.0    20.000    10.    10. 0.99 0.01 19200.  0.00   0.0 fict : fictitious material (almost not there)
with matching single layer optics
 ISO 6946 U values (horiz/upward/downward heat flow)=  5.875  7.133  4.757 (partition)  3.843
 Weight per m^2 of this construction   0.04

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  5.55
 External surface admittance Y=  5.55  w=  0.00 decrement factor f=  0.33  phi=  0.00 surface factor f=  0.33
phi=  0.00
 Partition admittance Y=  0.00  w=  6.00 surface factor f=  1.00  phi=  0.00

 Fictitious 99/99,      4mm, no blind: with id of: SC_fictit
 with 1 layers [including air gaps] and visible trn: 0.99
 Direct transmission @ 0, 40, 55, 70, 80 deg
   0.998 0.987 0.986 0.985 0.984
 Layer| absorption @ 0, 40, 55, 70, 80 deg
    1  0.001 0.001 0.001 0.001 0.001
 Total area of fiktivni is    271.70

 Details of transparent construction: sklo with ext_sklo optics and overall thickness  0.013

 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
    1   12.8     0.900  2500.   750. 0.84 0.06 19200.  0.01  32.0 antisun : Antisun glass with placeholder single
layer optics
 ISO 6946 U values (horiz/upward/downward heat flow)=  5.428  6.484  4.460 (partition)  3.647
 Weight per m^2 of this construction  32.00

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  5.15
 External surface admittance Y=  5.17  w=  0.15 decrement factor f=  0.38  phi=  0.25 surface factor f=  0.38
phi=  0.25
 Partition admittance Y=  0.60  w=  5.72 surface factor f=  1.00  phi=  0.28

 SGG Neutral: with id of: ext_sklo
 with 1 layers [including air gaps] and visible trn: 0.64
 Direct transmission @ 0, 40, 55, 70, 80 deg
   0.540 0.518 0.480 0.374 0.225
 Layer| absorption @ 0, 40, 55, 70, 80 deg
    1  0.344 0.362 0.368 0.371 0.293
 Total area of sklo is    418.38

 Details of opaque construction: vrsek and overall thickness  0.390
 In category roofs also shown in menus as: vrsek
no documentation yet for terasa inroofs

 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
 Ext   230.0     1.400  2100.   653. 0.90 0.65    19.  0.16 483.0 heavy mix concrete : Heavy mix concrete
 Int   160.0     0.040   105.  1800. 0.90 0.60     1.  4.00  16.8 mineral fibre : Mineral fibre (non-hygroscopic)
 ISO 6946 U values (horiz/upward/downward heat flow)=  0.231  0.232  0.229 (partition)  0.226
 Weight per m^2 of this construction 499.80

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  0.23
 External surface admittance Y=  0.69  w=  2.86 decrement factor f=  0.94  phi=  0.23 surface factor f=  0.94
phi=  0.23
 Partition admittance Y=  0.73  w=  2.69 surface factor f=  0.93  phi=  0.23
 Total area of vrsek is     23.87

 Details of opaque construction: spodek and overall thickness  0.330
 In category ceil_floor also shown in menus as: spodek
no documentation yet for podlaha_3np inceil_floor
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 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
 Ext   230.0     1.400  2100.   653. 0.90 0.65    19.  0.16 483.0 heavy mix concrete : Heavy mix concrete
 Int   100.0     0.040   105.  1800. 0.90 0.60     1.  2.50  10.5 mineral fibre : Mineral fibre (non-hygroscopic)
 ISO 6946 U values (horiz/upward/downward heat flow)=  0.353  0.357  0.348 (partition)  0.342
 Weight per m^2 of this construction 493.50

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  0.35
 External surface admittance Y=  0.63  w=  2.57 decrement factor f=  0.94  phi=  0.19 surface factor f=  0.94
phi=  0.19
 Partition admittance Y=  0.73  w=  2.65 surface factor f=  0.93  phi=  0.23
 Total area of spodek is     23.87

 Details of opaque construction: intfas and overall thickness  0.108
 In category walls also shown in menus as: intfas
no documentation yet for fasada_F1 inwalls

 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
 Ext    11.5     0.760  2710.   837. 0.83 0.50 19200.  0.02  31.2 plate glass : Plate glass with placeholder
single layer optics
    2   14.0     0.000     0.     0. 0.99 0.99     1.  0.42   0.0 air  0.42 0.42 0.42
    3    6.0     0.760  2710.   837. 0.83 0.50 19200.  0.01  16.3 plate glass : Plate glass with placeholder
single layer optics
    4   14.0     0.000     0.     0. 0.99 0.99     1.  0.42   0.0 air  0.42 0.42 0.42
    5   11.5     0.760  2710.   837. 0.83 0.50 19200.  0.02  31.2 plate glass : Plate glass with placeholder
single layer optics
    6   50.0     0.000     0.     0. 0.99 0.99     1.  0.09   0.1 air  0.09 0.09 0.09
 Int     1.0   210.000  2700.   880. 0.85 0.52 19200.  0.00   2.7 aluminium : Aluminium
 ISO 6946 U values (horiz/upward/downward heat flow)=  0.879  0.902  0.849 (partition)  0.814
 Weight per m^2 of this construction  81.39

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  0.87
 External surface admittance Y=  1.95  w=  2.89 decrement factor f=  0.85  phi=  0.73 surface factor f=  0.85
phi=  0.73
 Partition admittance Y=  2.03  w=  4.38 surface factor f=  0.93  phi=  0.93
 Total area of intfas is    378.01

 Details of opaque construction: boky and overall thickness  0.057
 In category walls also shown in menus as: boky
no documentation yet for fasada_bok

 Layer|Thick |Conduc-|Density|Specif|IR  |Solar|Diffu| R    | Kg |Description
      |(mm)  |tivity |       |heat  |emis|abs  |resis|m^2K/W| m^2|
 Ext    11.5     0.760  2710.   837. 0.83 0.50 19200.  0.02  31.2 plate glass : Plate glass with placeholder
single layer optics
    2   14.0     0.000     0.     0. 0.99 0.99     1.  0.42   0.0 air  0.42 0.42 0.42
    3    6.0     0.760  2710.   837. 0.83 0.50 19200.  0.01  16.3 plate glass : Plate glass with placeholder
single layer optics
    4   14.0     0.000     0.     0. 0.99 0.99     1.  0.42   0.0 air  0.42 0.42 0.42
 Int    11.5     0.760  2710.   837. 0.83 0.50 19200.  0.02  31.2 plate glass : Plate glass with placeholder
single layer optics
 ISO 6946 U values (horiz/upward/downward heat flow)=  0.954  0.982  0.919 (partition)  0.879
 Weight per m^2 of this construction  78.62

Admittance calculations using Rsi   0.12 Rso   0.06 & Uvalue=  0.95
 External surface admittance Y=  2.08  w=  3.26 decrement factor f=  0.86  phi=  0.85 surface factor f=  0.86
phi=  0.85
 Partition admittance Y=  2.15  w=  4.86 surface factor f=  0.96  phi=  1.00
 Total area of boky is     40.37
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