

420801

1

**1**

42	(4208)	M74  N77	2-02-27-01  2-02-27-02  2-02-27-03	M7461  N7721/N7722 /N7723/N7724 /N7729	

1.

2.

2

**2**

1				
2				
3				

			CAD	
4				

1.

1

2

3

4

5

1~2

6

1~2

2.

1

2

3

4

5

6

7

8

9

10

3.

1

2

3

4

5

6

7

8

“

”

1.

2.

1

9

CAD BIM

2

6

5

3

A.

6 5 3

1+X

10 7 3

AOP

9 6 3

B. 3 6 2-3

PLC

4

1.



“ ” “ ” “ ”

“ ”

“ ”





50%

“ ”

2                      1    3



13

2.

1

“ ”

EDTA

1

2

3

pH

3

4

CAD

AutoCAD

AutoCAD

CAD

CAD

CAD

CAD



CAD

CAD

BIM

BIM

BIM

BIM

BIM

BIM

Revit

BIM

BIM

BIM

BIM

BIM

BIM

BIM

Revit

BIM

Revit

BIM

BIM

forCAD

BIM

BIM

BIM

2





TVOC











AOP





PLC

PLC  
PLC PLC PLC  
PLC PLC PLC  
PLC PLC PLC  
PLC PLC PLC







3

3

	1	3	14	2		1	20	40
	2		18	2			20	
	3		18	2			20	40
	4		18	2			20	
	5		18	2			20	40
	6				20		20	
		3	86	10	20	1		120

2596

137

50%

752

29 % 41

1844

71 % 96

504

19.4% 30

4

4

			%		%	
		752	29	41	29.9	1/4
		1844	71	96	70.1	
		2596	100	137	100	
		2092	80.6	107	78.1	
		504	19.4	30	21.9	10%
		1548				50%
	%	59.6				

5

								16	18	18	18	18	20		
								/							
1	99000742B		2	36	32	4									
2	99000752B		3	54	48	6				3					
3	99000682A	1	3	20	20	0	2								
4	99000692B	2		34	30	4		2							
5	99000032A	(1)	1	8	8	0	8								
6	99000612A	(2)		8	8	0		8							
7	99000622C	(3)		8	0	8			8						
8	99000062A	(4)		8	8	0				8					
9	99000072A	(5)		8	8	0					8				
10	99000082B	(1)	3	56	30	26	3								
11	99000092B	(2)	4	72	46	26		4							
12	99000122B	(1)	2	36	4	32	2								
13	99000132B	(2)	2	36	4	32		2							
14	99000142B	3	2	36	4	32			2						
15	99000542B		3	48	24	24	3								
16	99000592B		2	32	4	28			2						
17	99000602A		1	16	16	0	1								
18	99000582B		2	32	16	16			2						
18	99000172B	(1)	2	12	6	6	(12)								
20	99000182B	(2)		12	6	6			(12)						
21	99000192B	(3)		12	6	6				(12)					
22	99000572B		2	32	28	4				2					
23	99000702B	(1)	2	16	8	8	2								
24	99000712B	(2)		16	8	8		2							
26	99000202A		2	56	0	56	(56)								
27	99000212C		1	12	12		(12)								
			<b>39</b>	<b>716</b>	<b>384</b>	<b>332</b>									
1															

				2	36	18	18													
				41	752	402	350													
(	1	05042010B		5	80	40	40	5												
	2	05042180B		4	64	32	32		4											
	3	05042200B		3	48	32	16		3											
	4	05042181B		3	48	24	24		3											
	5	05042030B		3	48	30	18	3												
	6	05042050B		2	36	36	0		2											
	7	05042040B	CAD	4	72	36	36		4											
	8	05042150B	BIM	4	72	12	60			4										
	9	05042160B		1	18	18	0													
					29	486	260	226												
				29	486	260	226													
(	1	05042060B		4	72	32	40			4										
	2	05042070B		3	48	24	24			3										
	3	05042080B		3	48	24	24			3										
	4	05042090B		3	54	30	24				3									
	5	05042070B		3	48	24	24				3									
	6	05042120B		2	32	16	16					2								
					18	302	150	152												
				18	302	150	152													
)	5	05042131B		2	32	16	16				2									
		05042141B		3	48	24	24			3										
		05041541B																		
		05042171B		2	32	16	16					2								
		05042181C	1+X	3	84	0	84				6									
	3	05042191B		2	32	16	16													
		05042101B		4	72	36	36				4									
		05042111B		4	72	36	36			4										

	7 3	05042201B		2	32	16	16							
		05042211B		2	32	16	16		2					
		05042221B	AOP		2	32	16	16					2	
		05042241C			2	56	0	56					3	
	6	3	05042251B		4	64	32	32					4	
			05042261B		3	48	24	24					3	
			05042271B		2	32	16	16					2	
			05042281B		2	32	16	16					2	
			05042301B		2	32	16	16					2	
			05042301C		2	56	0	56					2	
			05042351B		2	32	16	16					2	
			05042331B	PLC		2	32	16	16				2	
			05042321B		1	18	10	8					1	
05042311B				1	18	10	8					1		
05042341B				1	18	10	8					1		
05042361B				1	18	10	8					1		
		1	05042370C		1	28	0	28				28	/	
		2	05040240C		1	28	0	28						
		3	05040260C		1	28	0	28		28			/	
		4	05040270C		6	168	0	168					168	/
		5	05040280C		12	336	0	336						336


1. “ ”
- 2.
3. 6 12 336

18 14 14%

35% 3

6 “ ” 42%

1

5 6 1

2

1

2

A

1				
				10
				1
2				1
				1
				4
				1
3				
				12
4				5
				4
				12
5				4
				2
				2
				6
				2
6				12
				6
				1
				1
				1
7				5
				4
				4
			COD	2
				4
				1
				5

				2
				1
8				5
				1
				2
9				12
				2
				4
				2

B.

			/	
	2		100	
			10	
			5	
	16		100	
			90	
			30	

“ ”

	<p>1.</p> <p style="text-align: right;"><a href="https://www.icve.com.cn/">https://www.icve.com.cn/</a> <a href="https://www.icve.com.cn/https://www.icourse163.org/">https://www.icve.com.cn/https://www.icourse163.org/</a></p> <p>2.</p> <p><a href="http://www.cnki.net/">kns8.cnki.net/</a> <a href="http://www.ep.net.cn/">http://www.ep.net.cn/</a> <a href="http://www.cenews.com.cn/">http://www.cenews.com.cn/</a> <a href="http://www.swcc.org.cn/">http://www.swcc.org.cn/</a></p>

“ ”

1

”

“ ”

“



2

3

40%

“ + ” “ + ”

4

5 1410+N ( )  
( ) ( N )

137

39

68

30

1+X

2

1+X

2

1+X

2

/ /

10/8/6

/ /

6/4/3

/ /

3/2/1

/

/ / /

10/8/6/4

1

2-3

0.8

4-6

0.4

7

0.2

8/3/2

1

2-3

0.8

4-6 0.4

7

0.2

“

+

”

“1+X”

6 7

6

1

GR 37 &B'Êœ°-

"v!63q Ø`"pĐ Öât ÓP@ GW




1  
2  
3