

Table 5.2: Field results for stock-bricks

Observation date	Task group	Artisans	Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (# of bricks)	Possible output (8hrs/day work)	Optimum Output (8hrs/day)
2006/10/07	D	4	3	09:19	16:55	286	0	111	397	72	-	28	1514	1,831	2,541
2006/11/07	D	4	4	07:31	16:46	324	131	55	510	64	26	11	1746	1,643	2,587
2006/12/07	D	4	4	07:37	16:37	490	0	0	490	100	-	-	1211	1,186	1,186
13-07-2006	D	4	10	07:36	16:20	401	0	75	476	84	-	16	3184	3,211	3,811
AVERAGE		4	5	07:35	16:40	375	33	60	468	80	6	14	1,914	1,968	2,531
Artisan: Helper ratio		1	1.3										478	492	633
2006/11/07	E	2	3	07:23	16:39	466	22	38	526	89	4	7	1088	993	1,121
2006/12/07	E	2	4	07:28	16:11	450	52	0	502	90	10	-	990	947	1,056
13-07-2006	E	7	9	07:17	16:39	510	0	29	539	95	-	5	5843	5,203	5,499
14/-7/2006	E	9	9	08:26	16:48	453	0	31	484	94	-	6	7476	7,414	7,922
AVERAGE		5	6	07:39	16:34	470	19	25	513	92	4	5	3,849	3,639	3,899
Artisan: Helper ratio		1	1.3										770	728	780
2006/11/07	F	7	14	07:11	16:41	545	0	0	545	100	-	-	6694	5,896	5,896
2006/12/07	F	7	14	07:13	16:47	556	0	0	556	100	-	-	6862	5,924	5,924
13-07-06	F	6	7	07:42	16:44	482	0	35	517	93	-	7	3528	3,276	3,513
14-07-06	F	6	5	08:09	16:49	499	0	0	499	100	-	-	4446	4,277	4,277
AVERAGE		7	10	07:34	16:45	521	-	9	529	98	-	2	5,383	4,843	4,902
Artisan: Helper ratio		1	1.5										769	692	700
Av: Artisan:Helper	D, E, F	1	1.4	07:36	16:40	455	17	31	503	90	3	7	672	637	704

Table 5.3: Field results for painting (1ST COAT)															
Observation date	Task group	# of Artisans	# of Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (square metres)	Possible output (8hrs/day)	Optimum Output (8hrs/day)
2006/10/07	C	2	0	09:23	14:45	226	0	0	226	100	-	-	210	446	446
2006/12/07	C	2	0	09:17	13:15	128	0	67	195	66	-	34	73	180	274
13-07-06	C	2	0	09:39	15:28	258	0	51	309	83	-	17	94	146	175
14-07-06	C	2	0	13:20	15:45	118	0	27	145	81	-	19	45	149	183
AVERAGE		2	-	10:15	15:13	183	-	36	219	83	-	17	105.5	230.2	269.4
Artisan: Helper ratio		1	-										53	115	135
19-07-06	L	2	0	08:13	16:30	416		34	450	92	-	8	91	97	105
20-07-06	L	1		08:12	15:38	309	0	0	309	100	-	-	53	82	82
21-07-06	L	2	0	07:54	11:17	41	0	66	107	38	-	62	12.7	57	149
24-07-06	L	1		07:31	15:09	267	0	0	267	100	-	-	19.3	35	35
AVERAGE		2	-	07:58	14:39	258	-	25	283	83	-	17	44.0	67.8	92.7
Artisan: Helper ratio		1	-										22	34	46
Av: Artisan:Helper	C,L	1	0			220	-	31	251	83	-	17	37.4	74.5	90.5

Table 5.4: Field results for face-bricks															
Observation date	Task group	# of Artisans	# of Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (# of bricks)	Possible output (8hrs/day work)	Optimum Output (8hrs/day)
19-07-06	M	3	1	07:32	17:08	290	0	198	488	59	-	41	65	64	108
20-07-06	M	2	1	07:31	17:05	439	0	19	458	96	-	4	350	367	383
21-07-06	M	2	2	07:41	13:00	253	0	27	280	90	-	10	280	480	531
24-07-06	M	2	2	08:31	16:36	404	0	37	441	92	-	8	630	686	749
27-07-06	M	2	2	07:35	17:23	398	0	55	453	88	-	12	464	492	560
AVERAGE		2	2	07:46	17:03	357	-	67	424	85	-	15	358	418	466
Artisan: Helper ratio		1	1	07:46	17:03	357	-	67	424	85	-	15	179	209	233
Facebricks															
Observation date	Task group	# of Artisans	# of Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (# of bricks)	Possible output (8hrs/day work)	Optimum Output (8hrs/day)
27-07-06	O	4	7	07:52	17:03	250	0	102	352	71	-	29	1,337	1,823	2,567
28-07-06	O	4	4	08:17	17:14	532	22		554	96	4	-	470	407	424
AVERAGE		4	6	08:05	17:09	391	11	102	453	84	2	14	904	1,115	1,496
Artisan: Helper ratio		1	1.4										226	279	374
STOCKBRICS															
Observation date	Task group	# of Artisans	# of Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (# of bricks)	Possible output (8hrs/day work)	Optimum Output (8hrs/day)
27-07-06	O	4	7	07:52	17:03	250	0	102	352	71	-	29	1,737	2,369	3,335
28-07-06	O	4	4	08:17	17:14	532	22		554	96	4	-	470	407	424
AVERAGE		4	6	08:05	17:09	391	11	102	453	84	2	14	1,104	1,388	1,880
Artisan: Helper ratio		1	1.4										276	347	470
Face & Stock bricks	O	1	1.4	08:05	17:09	391	11	102	453	84	2	14	502	626	844

Table 5.5: Field results for plastering															
Observation date	Task group	Artisans	Helpers	Start work	End Work	Productive time (mins)	Unproductive time(mins)	Idle time(mins)	Total time (mins)	Productive time (%)	Unproductive time(%)	Idle time(%)	Actual Output (square metres)	Possible output (8hrs/day)	Optimum Output (8hrs/day)
2006/10/07	A	6	11	07:30	16:40	448	0	10	458	98	-	2	124	130	133
2006/11/07	A	1	2	07:16	11:05	0	212	0	212	-	100	-	0	-	#DIV/0!
2006/12/07	A	4	4	07:21	15:57	413	0	11	424	97	-	3	78	88	91
13-07-06	A	1	1	07:18	15:50	428	24		452	95	5	-	16.4	17	18
14-07-06	A	5	9	07:27	15:03	402	0	0	402	100	-	-	116	139	139
17-07-06	A	2	2	07:14	15:44	448	0	0	448	100	-	-	25	27	27
AVERAGE		4	5	07:22	15:51	428	5	4	437	98	1	1	72	80	81
Artisan: Helper ratio		1	1.4										18	20	20
2006/10/07	B	4	6	09:15	17:43	458	0	0	458	100	-	-	130	136	136
2006/11/07	B	5	7	08:07	17:43	360	163		523	69	31	-	104	95	139
2006/12/07	B	3	5	07:27	16:25	432	0	29	461	94	-	6	82	85	91
13-07-06	B	5	9	07:28	17:23	533	0	0	533	100	-	-	125.5	113	113
14-07-06	B	5	8	08:21	17:00	485	0	0	485	100	-	-	98	97	97
17-07-07	B	6	10	07:37	17:23	514	0	0	514	100	-	-	89	83	83
AVERAGE		5	8	08:03	17:26	464	27	6	496	94	5	1	105	102	110
Artisan: Helper ratio		1	1.5										21	20	22
Av: Artisan:Helper	A,B	1	1.4	07:43	16:39	446	16	5	466	96	3	1	19	20	21

Table 5.6: Field results for Tiling

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Table 5.7:	Breakdown for tea and lunch breaks					
Stockbricks						
Observation date	Task Group	Tea break (mins)	Lunch break (mins)	Total (mins)	Official duration (mins)	Excess time(mins)
2006/10/07	D		50	50	60	-10
2006/11/07	D	15	30	45	60	-15
2006/12/07	D	18	32	50	60	-10
13-07-2006	D	16	32	48	60	-12
Average		16	31	48	60	(12)
2006/11/07	E	30	40	70	60	10
2006/12/07	E	21	36	57	60	(3)
13-07-2006	E	23	37	60	60	-
14/-7/2006	E	17	31	48	60	(12)
Average		23	36	59	60	(1)
2006/11/07	F	25	37	62	60	2
2006/12/07	F	18	38	56	60	(4)
13-07-06	F	25	38	63	60	3
14-07-06	F	21	38	59	60	(1)
Average		22	38	60	60	-
Painting						
2006/10/07	C		36	36		
2006/12/07	C		41	41		
13-07-06	C		50	50		
14-07-06	C		0	0		
19-07-06	L	17	30	47	60	(13)
20-07-06	L	36	96	132	60	72
21-07-06	L	36		36	60	(24)
24-07-06	L	28	43	71	60	11
Average		27	56	83	60	23
Facebricks						
19-07-06	M	28	60	88	60	28
20-07-06	M	22	34	56	60	-4
21-07-06	M	39	39	78	60	18
24-07-06	M	23	49	72	60	12
27-07-06	M	27	48	75	60	15
Average		25	48	73	60	13
27-07-06	O	28	55	83	60	23
28-07-06	O	26	50	76	60	16
Average		27	53	80	60	20
PLASTERING						
Observation date	Tak Group	Tea break (mins)	Lunch break (mins)	Total (mins)	Official duration (mins)	Excess time(mins)
2006/10/07	A	18	34	52	60	-8
2006/11/07	A	17	17	34	60	-26
2006/12/07	A	23	51	74	60	14
13-07-06	A	36	34	70	60	10
14-07-06	A	19	35	54	60	-6
17-07-06	A	26	36	62	60	2
Average		24	38	62	60	2
2006/10/07	B	0	50	50	60	-10
2006/11/07	B	0	53	53	60	-7
2006/12/07	B	0	57	57	60	-3
13-07-06	B	0	62	62	60	2
14-07-06	B	0	34	34	60	-26
17-07-07	B	0	72	72	60	12
Average			55	55	60	(5)
TILING						
19/07/06	I		51	51	60	-9
20/07/06	I		30	30	60	-30
21/07/06	I			0	60	-60
24/07/06	I		23	23	60	-37
Average			35	35	60	(25)
19/07/07	J		32	32	60	-28
20/07/06	J		30	30	60	-30
21/07/06	J			0	60	-60
24/07/06	J		27	27	60	-33
Average			30	30	60	(30)
19/07/07	K	-	-			
20/07/06	K		30	30	60	-30
21/07/06	K			0	60	-60
24/07/06	K		30	30	60	-30
Average			30	30	60	-30
20/07/06	N		30	30	60	-30
21/07/06	N		32	32	60	-28
24/07/06	N		0	0	60	-60
27/07/06	N		42	42	60	-18
Average			35	35	60	(25)

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