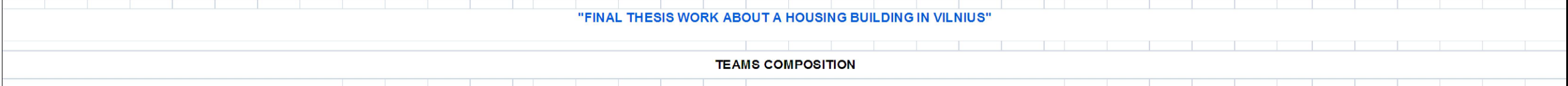


"FINAL THESIS WORK ABOUT A HOUSING BUILDING IN VILNIUS"

TABLE OF WORKERS AND MACHINERY ASSIGNED TO THE CONSTRUCTION

WORKERS	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH	MONTH
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MONTH	
OFFICIAL CONSTRUCTION	2	3	3	4	4	4	4	4	8	4	6	6	6	4	3	4	4	3	3	2	1	2	2		
OFFICIAL FERRALL		2	2	4	4	4	4	4	4																
OFFICIAL FORMWORK		1	1	4	4	4	4	4	4																
OFFICIAL PLASTER									2	2	6	6	4	4	4	4	2	2	2	2	2	2			
OFFICIAL METAL									2	2	2	2	2												
OFFICIAL CARPENTER											2	2	2	2	2	2	2								
OFFICIAL LOCKSMITH											2	2	2	2	2	2									
OFFICIAL PAINTER																									
OFFICIAL PLUMBER			1						1	1	1	1	1	1	1	1	1	1	1	1		2	2		
OFFICIAL ELECTRICITY									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
OFFICIAL INSTALLER									1	1	1	1	2	2	2	3	3	3	3	3	3	4	1		
WORKER CONSTRUCTION	2	2	2	2	2	2	2	2	6	4	5	5	4	2	2	3	4	3	3	2	1	2	2		
WORKER FERRALL		1	1	2	2	2	2	2	2																
WORKER FORMWORK		1	1	2	2	2	2	2	2																
WORKER PLASTER									1	1	3	3	2	2	2	2	1	1	1	1	1	1			
WORKER METAL									2	2	2	2	2												
WORKER CARPENTER											1	1	1	1	1	1									
WORKER LOCKSMITH											1	1	1	1	1	1									
WORKER PAINTER																									
HELPER PLUMBER			1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
HELPER ELECTRICITY									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
HELPER INSTALLER									1	1	1	1	2	2	2	3	3	3	3	3	3	4	1		
TOTAL MONTHLY WORKERS	4	10	12	18	18	18	18	18	39	21	36	36	34	26	25	29	31	19	19	17	18	22	6		

Month	Number of Monthly Machinery
1	2
2	2
3	3
4	2
5	2
6	2
7	2
8	2
9	9
10	7
11	9
12	9
13	10
14	8
15	7
16	9
17	9
18	8
19	8
20	7
21	7
22	9
23	3



STRUCTURE						FACADES													
WORKFORCE: Productive team					WORKFORCE: Not productive team					WORKFORCE: Productive team					WORKFORCE: Not productive team				
Activity	Official	Worker	Helper	Total	1	Attendant / Foreman	Activity	Official	Worker	Helper	Total	1	Attendant / Foreman						
Construction	2	1		3	1	Crane operator	Construction	1	1		2	1	Crane operator						
Roofing	2	1		3			Metal	1	1		2								
Rebar	2	1		3															
9	TOTAL PRODUCTIVE OPERATORS				2	TOTAL NOT PRODUCTIVE OPERATORS	4	TOTAL PRODUCTIVE OPERATORS				2	TOTAL NOT PRODUCTIVE OPERATORS						
MACHINERY AND AUXILIARY RESOURCES																			
1	CLUTTING STRAIGHTENER				1	SHOULDER EQUIPMENT	1	CURRENT TRANSPORTER				1	LOST CONCRETE						
1	TOWER CRANE 110 EC-B6				s/mec	TRUCK TRANSPORT	1	PALLET				1	WELDING EQUIPMENT						
s/mec	DISCO SAW				s/mec	TRUCK SHAMBLESS	1	BRICK CUTTER				1	TOWER CRANE 110 EC-B6						
s/mec	VIBRANT NEEDLES				1	FORMWORK EQUIPMENT	1	SCAFFOLDING EQUIPMENT											
1	VIBRATING ROLLER																		

TILING					
WORKFORCE: Productive team					WORKFORCE: Not productive team
activity	Offical	Worker	Helper	Total	
Construction	1	1	1	2	1 Attendant / Foreman
2	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY & AUXILIARY RESOURCES					
1	CEMENT TRANSPORTER				1 LIGHT CONCRETE
1	PALLET				
1	SCAFFOLDING EQUIPMENT				
1	TILE CUTTER				

ELECTRICAL INSTALLATIONS					
WORKFORCE: Productive team					WORKFORCE: Not productive team
Activity	Offical	Worker	Helper	Total	
Electricity	1		1	2	1 Attendant / Foreman
2	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES					
				s/nec	SPECIFIC TASK TOOL

HEALTH AND SAFETY					
WORKFORCE: Productive Team					WORKFORCE: Not productive team
Activity	Officer	Wardier	Helper	Total	
Health and Safety	1			1	1 Attendant / Foreman
1	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES					
				s/nec	SPECIFIC TASK TOOL

FACADES						
WORKFORCE: Productive team					WORKFORCE: Not productive team	
Activity	Offical	Worker	Helper	Total		
Construction	1	1	2	1	Attendant / Foreman	
Metal		1	1	2	Crane operator	
4	TOTAL PRODUCTIVE OPERATORS				2	TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES						
1	CEMENT TRANSPORTER			1	LIGHT CONCRETE	
1	PALLET			1	WELDING EQUIPMENT	
1	BRICK CRUITER			1	TOWER CRANE 110 EC-85	
1	SCAFFOLDING EQUIPMENT					

CARPENTRY AND HARDWARE					
WORKFORCE: Productive team					WORKFORCE: Not productive team
Activity	Offical	Worker	Helper	Total	
Construction	1			1	1 Attendant / Foreman
Locksmith	2	1		3	
Carpenter	2	1	0	3	
7	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES					
s/nec	SPECIFIC TASK TOOL				1 SCAFFOLDING EQUIPMENT
1	PALLET				1 CUTTER
1	DRILL				1 DISCO SAW
1	WELDING EQUIPMENT				

WATER INSTALLATIONS					
WORKFORCE: Productive team					WORKFORCE: Not productive team
<i>Activity</i>	<i>Official</i>	<i>Worker</i>	<i>Helper</i>	<i>Total</i>	
Plumber	1		1	2	Attendant / Foreman
2	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES					
			s/nec	SPECIFIC TASK TOOL	

MASONRY				
WORKFORCE: Productive team				WORKFORCE: Net productive team
Activity	Official	Worker	Helper	Total
Construction	1	1	1	2
Masterer	2	1	3	2
5	TOTAL PRODUCTIVE OPERATORS			2
	TOTAL NOT PRODUCTIVE OPERATORS			
MACHINERY AND AUXILIARY RESOURCES				
1	CEMENT TRANSPORTER		1	LIGHT CONCRETE
1	PALLET		1	TOWER CRANE 110 EC-BE
1	BRICK CUTTER		1	DRILL
1	SCAFFOLDING EQUIPMENT		1	DISCO SAW

PAINTS					
WORKFORCE: Productive team					WORKFORCE: Not productive team
Activity	Officer	Worker	Helper	Total	
Painter	2	1		3	1 Attendant / Foreman
3	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS

MACHINERY AND AUXILIARY RESOURCES					
1	SCAFFOLDING EQUIPMENTS				
1	PALLET				
s/nec	SPECIFIC MACHINERY				
1	SCAFFOLDING EQUIPMENT				

THERMO SYSTEMS						
<b>WORKFORCE: Productive team</b>					<b>WORKFORCE: Not productive team</b>	
<i>Activity</i>	<i>Official</i>	<i>Worker</i>	<i>Helper</i>	<i>Total</i>	1	Attendant / Foreman
Installer	1		1	2		
<b>2</b>	<b>TOTAL PRODUCTIVE OPERATORS</b>				<b>1</b>	<b>TOTAL NOT PRODUCTIVE OPERATORS</b>
<b>MACHINERY AND AUXILIARY RESOURCES</b>						
					s/nec	SPECIFIC TASK TOOL

QUALITY CONTROL					
WORKFORCE: Productive team					WORKFORCE: Not productive team
Activity	Official	Worker	Helper	Total	
Quality	1	1		1	1 Attendant / Foreman
1	TOTAL PRODUCTIVE OPERATORS				1 TOTAL NOT PRODUCTIVE OPERATORS
MACHINERY AND AUXILIARY RESOURCES					
					s/nec SPECIFIC TASK TOOL

	Name and surname	<i>Signature</i>	<i>Date</i>	VILNIUS GEDIMINAS TECHNICAL UNIVERSITY		
Student		Vicente Carrón Machado	- 2011	Construction design of the multistorey dwelling-house at Rygos str. 11 in Vilnius		
Supervisor		Jones Sepenuolas	- 2011			
Consultant	Ramūnas Selva		- 2011		Page	Page
Head of Department	Edmundas Kuzmickas Zavadskis		- 2011		7	7
Reviewer			- 2011	ORGANIZATION PART WORKFORCE AND MACHINERY		Department of Construction Technology and Management