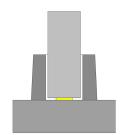
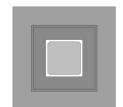
CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS Precast PAD Foundation VS Traditional cast-in-place footing and pocket

M		PRE	CAST F	PAD FOUND 2.50		ON (FOC			NACHINO
	<i>y</i> • •	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE
	DDECAST	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	220	€	0,60	€	132,00	Fe B 44 k 70kg/m³ (The cost does not include overhead costs and business profits)
	PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	0,81	€	51,80	€	41,96	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)
		Labor	Hours	3	€	25,00	€	75,00	
		Total					€	248,96	
		Overhead costs					€	74,69	30%
		Total costs					€	323,65	
		Minimum ex- works sales price					€	404,56	Coefficient 1,25 (The cost includes business profits)
		Amortization of the formworks					€	11,70	
T T T T T T T T T T		Royalty					€	41,63	10%
		Transport			€	500,00	€	35,71	Km 200 / 14 precast elements
		Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)
		Minimum sales price with transport and assembly					€	528,60	
		Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler
	PAD FOUNDATION (FOOTING) Factory produced concrete Labor Hours 3 € Total Overhead costs Total costs Minimum exworks sales price Amortization of the formworks Royalty Transport Assembly Minimum sales price with transport and assembly Assembly Assembly nr 4 € (Column-	5,00	€	21,87	2,70x2,70x0,60 m (with overhead costs and business profits)				
		Concrete in situ	m³	2,315	€	75,00	€	173,63	Rck 30 N/mm² S4 (with overhead costs and business profits)
		Backfilling	m³	0,624	€	2,00	€	1,25	Excavation - Foundation (with overhead costs and business profits)
			TOTAL	PRICE			€	765,34	
TOTALTHIOL									

	TRADITI	CKET (SOCKET)						
	ITEM	U. M.	QUANTITY	€/	€/U. M.		COST	NOTE
	Steel - Reinforcing bars (footing base)	Kg	220	€	1,09	€	239,80	Fe B 44 k 70kg/m³ (with overhead costs and business profits)
	Steel - Reinforcing bars (Pocket)	Kg	173,25	€	1,09	€	188,84	Fe B 44 k (with overhead costs and business profits)
	Formwork (footing base)	m²	5	€	25,00	€	125,00	2,50x4x0,50 m (with overhead costs and business profits)
	Formwork (Pocket)	m²	9,24	€	25,00	€	231,00	(1,3×1,1×4)+(0,8×1,1×4)(with overhead costs and business profits)
ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE								
	Excavation (Pocket)	m³	9,9	€	5,00	€	49,50	3,00x3,00x1,10 m (with overhead costs and business profits)
	Concrete in situ (Pocket)	m³	1,155	€	75,00	€	86,63	Pocket 1,30x1,30x1,10 m Rck 30 N/mm² S4 (with overhead costs and business profits)
	Backfilling (Pocket)	m³	8,041	€	2,00	€	16,08	Excavation - Pocket (with overhead costs and business profits)
	Excavation (footing base)	m³	5,4	€	5,00	€	27,00	3,00x3,00x0,60 m (with overhead costs and business profits)
	Concrete in situ (footing base)	m³	3,125	€	75,00	€	234,38	Footing base 2,50x2,50x0,50 m (with overhead costs and business profits)
	Backfilling (footing base)	m³	1,65	€	2,00	€	3,30	Excavation - Footing base (with overhead costs and business profits)
	Mortar for filling between column and pocket	m³	0,336	€	75,00	€	25,20	
		TOTA	L PRICE			€	1.226,72	
	PEF	RCENTA	AGE SAVING	s			38%	
	SAVINO	MADI	E BY USING	OLID		€	461,38	





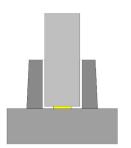
CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS Precast PAD Foundation VS Traditional cast-in-place footing and precast pocket

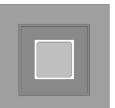
	Precast PAD Foundation VS Tra											
19	PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 2.50 x 2.50 x 0,50 m											
7 4	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE				
PRECAST	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	220	€	0,60	€	132,00	Fe B 44 k 70kg/m³ (The cost does not include overhead costs and business profits)				
PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	0,81	€	51,80	€	41,96	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)				
	Labor	Hours	3	€	25,00	€	75,00					
	Total					€	248,96					
	Overhead costs					€	74,69	30%				
	Total costs					€	323,65					
	Minimum ex- works sales price					€	404,56	Coefficient 1,25 (The cost includes business profits)				
	Amortization of the formworks					€	11,70					
	Royalty					€	41,63	10%				
	Transport			€	500,00	€	35,71	Km 200 / 14 precast elements				
	Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)				
	Minimum sales price with transport and assembly					€	528,60					
	Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler				
	Excavation	m³	4,374	€	5,00	€	21,87	2,70x2,70x0,60 m (with overhead costs and business profits)				
ACTIVITIES THAT ARE CARRIED OUT IN THE	Concrete in situ	m³	2,315	€	75,00	€	173,63	Rck 30 N/mm ² S4 (with overhead costs and business profits)				
WORKSITE	Backfilling	m³	0,624	€	2,00	€	1,25	Excavation - Foundation (with overhead costs and business profits)				

TOTAL PRICE

€ 765,34

TRADITIONAL CAST-IN-PLACE FOOTING WITH PRECAST POCKET (SOCKET) 2.50 x 2.50 x 0,50 m										
NOTE	COST	/ U. M.	QUANTITY	U. M.	ITEM					
Fe B 44 k (The cost does not include overhead costs and business profits)	138,60	0,80	173,25	Kg	Steel - Reinforcing bars (Precast Pocket)					
Pocket 1,30x1,30x1,10 m Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)	59,83	51,80	1,155	m³	Factory produced concrete (Precast Pocket)	PRECAST POCKET				
	100,00	25,00	4	Hours	Labor					
	298,43				Total					
30%	89,53				Overhead costs					
	387,96				Total costs					
Coefficient 1,25 (The cost includes business profits)	484,95	,			Minimum ex- works sales price					
	11,70				Amortization of the formworks					
Km 200 / 9 precast elements	55,56	500,00			Transport					
4 precast pocket x 1 hour (2 unskilled workers + 1 crane)	35,00				Assembly					
	587,20	,			Minimum sales price with transport and assembly					
3,00x3,00x1,10 m (with overhead costs and business profits)	49,50	5,00	9,9	m³	Excavation (Precast Pocket)					
3,00x3,00x0,60 m (with overhead costs and business profits)	27,00	5,00	5,4	m³	Excavation (footing base)					
2,50x4x0,50 (with overhead costs and business profits)	125,00	25,00	5	m²	Formwork (footing base)					
Fe B 44 k 70kg/m³ (with overhead costs and business profits)	239,80	1,09	220	Kg	Steel - Reinforcing bars (footing base)	ACTIVITIES THAT ARE				
Footing base 2,50x2,50x0,50 m (with overhead costs and business profits)	234,38	75,00	3,125	m³	Concrete in situ (footing base)	CARRIED OUT IN THE WORKSITE				
Excavation - Pocket (with overhead costs and business profits)	16,08	2,00	8,041	m³	Backfilling (Precast Pocket)					
Excavation - Footing base (with overhead costs and business profits)	3,30	2,00	1,65	m³	Backfilling (footing base)					
	25,20	75,00	0,336	m³	Mortar for filling between column and pocket					
	1.307.46		PRICE	TOTAL						
			GE SAVINGS		PEI					
		RUCTION								
	1.307,46 41% 542,12		GE SAVINGS	RCENTA	column and pocket					





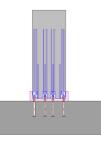
CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS -

Precast PAD Foundation VS Traditional cast-in-place footing with connection systems such as PEIKKO or HALFEN

		Precast PAD Foundation vs Traditional cast-in-p									
	P	PRE	CAST I	PAD FOUNI 2.50		ION (FOO 2.50 x 0,50		•	NACHINO		
	7 1	ITEM	U. M.	QUANTITY	•	E / U. M.		COST	NOTE		
	PRECAST	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	220	€	0,60	€	132,00	Fe B 44 k 70kg/m³ (The cost does not include overhead costs and business profits)		
	PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	0,81	€	51,80	€	41,96	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)		
		Labor	Hours	3	€	25,00	€	75,00			
		Total					€	248,96			
		Overhead costs					€	74,69	30%		
		Total costs					€	323,65			
		Minimum ex- works sales price					€	404,56	Coefficient 1,25 (The cost includes business profits)		
		Amortization of the formworks					€	11,70			
	_	Royalty					€	41,63	10%		
		Transport			€	500,00	€	35,71	Km 200 / 14 precast elements		
		Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)		
		Minimum sales price with transport and assembly					€	528,60			
		Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler		
		Excavation	m³	4,374	€	5,00	€	21,87	2,70x2,70x0,60 m (with overhead costs and business profits)		
	ACTIVITIES THAT ARE CARRIED OUT IN THE	Concrete in situ	m³	2,315	€	75,00	€	173,63	Rck 30 N/mm² S4 (with overhead costs and business profits)		
	WORKSITE	Backfilling	m³	0,624	€	2,00	€	1,25	Excavation - Foundation (with overhead costs and business profits)		
			TOTAL	PRICE			€	765,34			

	TRADITIONAL CAST-IN-PLACE FOOTING WITH BOLTED CONNECTION SUCH AS PEIKKO / HALFEN - 2.50 \times 2.50 \times 0,50 m											
	ITEM	U. M.	QUANTITY	€/U.M.		COST	NOTE					
	Steel - Reinforcing bars (footing base)	Kg	220	€ 1,09	€	239,80	Fe B 44 k 70kg/m³ (with overhead costs and business profits)					
	Formwork (footing base)	m²	5	€ 25,00	€	125,00	2,50x4x0,50 m (with overhead costs and business profits)					
	Jig				€	50,00						
	Transport and assembly of the jig				€	50,00						
	Expansive mortar				€	80,00	The cost includes preparation and pouring					
	Additional reinforcing bars to join the Jig to the footing reinforcing cage	Kg	20	€ 1,09	€	21,80	Fe B 44 k (with overhead costs and business profits)					
ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE												
	Connection systems (Column- Foundation)	nr	6	€ 60,00	€	360,00	Anchor Bolts and Column Shoes					
	Excavation (footing base)	m³	5,4	€ 5,00	€	27,00	3,00x3,00x0,60 m (with overhead costs and business profits)					
	Concrete in situ (footing base)	m³	3,125	€ 75,00	€	234,38	Rck 30 N/mm² S4 (with overhead costs and business profits)					
	Backfilling (footing base)	m³	1,65	€ 2,00	€	3,30	Excavation - Foundation (with overhead costs and business profits)					
		TOTA	L PRICE		€	1.191,28						
	PE	RCENT	AGE SAVING	s		36%						
			E BY USING (CTION SYSTE		€	425,94						

This solution is not recommended for Seismic Zones





CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS - Precast PAD Foundation VS Traditional cast-in-place footing with steel corrugated tubes

	Y	PRE	CAST I	PAD FOUNI 2.50		ON (FOO		•	NACHINO			
	7 1	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE			
		Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	220	€	0,60	€	132,00	Fe B 44 k (The cost does not include overhead costs and business profits)			
	PRECAST PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	0,81	€	51,80	€	41,96	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)			
		Labor	Hours	3	€	25,00	€	75,00				
		Total					€	248,96				
		Overhead costs					€	74,69	30%			
		Total costs					€	323,65				
		Minimum ex- works sales price					€	404,56	Coefficient 1,25 (The cost includes business profits)			
		Amortization of the formworks					€	11,70				
1 - 1 -		Royalty					€	41,63	10%			
· • • • • • • • • • • • • • • • • • • •		Transport			€	500,00	€	35,71	Km 200 / 14 precast elements			
		Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)			
		Minimum sales price with transport and assembly					€	528,60				
		Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler			
	ACTIVITIES THAT ARE CARRIED OUT IN THE	Excavation	m³	4,374	€	5,00	€	21,87	2,70x2,70x0,60 m (with overhead costs and business profits)			
		Concrete in situ	m³	2,315	€	75,00	€	173,63	Rck 30 N/mm² S4 (with overhead costs and business profits)			
	WORKSITE	Backfilling	m³	0,624	€	2,00	€	1,25	Excavation - Foundation (with overhead costs and business profits)			
			TOTAL	PRICE			€	765,34				

					CE FOOTING WITH - 2.50 x 2.50 x 0,80 m				
	ITEM	U. M.	QUANTITY		€ / U. M.		COST	NOTE	
	Steel - Reinforcing bars (footing base)	Kg	220	€	1,09	€	239,80	Fe B 44 k (with overhead costs and business profits)	
	Formwork (footing base)	m²	8	€	25,00	€	200,00	2,50x4x0,80 m (with overhead costs and business profits)	
	Jig for 16 corrupted tubes					€	200,00		
	Transport and assembly of the jig					€	100,00		
	Expansive mortar					€	230,00	The cost includes preparation and pouring	
ACTIVITIES THAT ARE									
CARRIED									
OUT IN THE WORKSITE									
	Connection systems (Column- Foundation)	nr	4	€	40,00	€	160,00	Anchor Bolts and Column Shoes	
	Excavation (footing base)	m³	8,1	€	5,00	€	40,50	3,00x3,00x0,90 m (with overhead costs and business profits)	
	Concrete in situ (footing base)	m³	5	€	75,00	€	375,00	Rck 30 N/mm² S4 (with overhead costs and business profits)	
	Backfilling (footing base)	m³	2,475	€	2,00	€	4,95	Excavation - Foundation (with overhead costs and business profits)	
		TOTA	L PRICE			€	1.550,25		
	PE		AGE SAVING	s			51%		
				-			0170		

SAVING MADE BY USING OUR

CONSTRUCTION SYSTEM

€ 784,91

