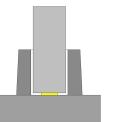
## CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS Precast PAD Foundation VS Traditional cast-in-place footing and pocket

	TRADITI	ONAL			E FOOT 3.50 x			CKET (SOCKET)
	ITEM	U. M.	QUANTITY		/U. M.	- /	COST	NOTE
	Steel - Reinforcing bars (footing base)	Kg	750	€	1,09	€	817,50	Fe B 44 k 85kg/m <sup>3</sup> (with overhead costs and business profits)
	Steel - Reinforcing bars (Pocket)	Kg	277,2	€	1,09	€	302,15	Fe B 44 k (with overhead costs and business profits)
	Formwork (footing base)	m²	9,8	€	25,00	€	245,00	3,50x4x0,70 m (with overhead costs and business profits)
	Formwork (Pocket)	m²	12,32	€	25,00	€	308,00	(1,70x1,10x4)+(1,10x1, 10x4) (with overhead costs and business profits)
ACTIVITIES								
THAT ARE CARRIED OUT IN THE								
WORKSITE								
	Excavation (Pocket)	m³	17,6	€	5,00	€	88,00	4,00x4,00x1,10 m (with overhead costs and business profits)
	Concrete in situ (Pocket)	m³	1,848	€	75,00	€	138,60	Pocket 1,70x1,70x1,10 m Rck 30 N/mm <sup>2</sup> S4 (with overhead costs and business profits)
	Backfilling (Pocket)	m³	14,421	€	2,00	€	28,84	Excavation - Pocket (with overhead costs and business profits)
	Excavation (footing base)	m³	12,8	€	5,00	€	64,00	4,00x4,00x0,80 m (with overhead costs and business profits)
	Concrete in situ (footing base)	m³	8,575	€	75,00	€	643,13	Footing base 3,50x3,50x0,70 m (with overhead costs and business profits)
	Backfilling (footing base)	m³	3	€	2,00	€	6,00	Excavation - Footing base (with overhead costs and business profits)
	Mortar for filling between column and pocket	m³	0,44	€	75,00	€	33,00	
		TOTA	L PRICE			€	2.674,22	
	PEF	CENT	AGE SAVING	s			31%	
			E BY USING			€	832,41	

M	PREC	CAST P	AD FOUND 3.50		ON (FOO .50 x 0,7			NACHINO
<i>y</i> <b>v</b>	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE
PRECAST	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	750	€	0,60	€	450,00	Fe B 44 k 85kg/m <sup>3</sup> (The cost does not include overhead costs and business profits)
PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	1,63	€	51,80	€	84,43	Rck 30 N/mm <sup>2</sup> S4 (The cost does not include overhead costs and business profits)
	Labor	Hours	3	€	25,00	€	75,00	
	Total					€	609,43	
	Overhead costs					€	182,83	30%
	Total costs					€	792,26	
3	Minimum ex- works sales price					€	990,33	Coefficient 1,25 (The cost includes business profits)
	Amortization of the formworks					€	14,70	
	Royalty					€	100,50	10%
	Transport			€	500,00	€	83,33	Km 200 / 6 precast elements
	Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)
	Minimum sales price with transport and assembly					€	1.223,87	
	Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler
	Excavation	m³	10,952	€	5,00	€	54,76	3,70x3,70x0,8 m (with overhead costs and business profits)
ACTIVITIES THAT ARE	Concrete in situ	m³	6,945	€	75,00	€	520,88	Rck 30 N/mm <sup>2</sup> S4 (with overhead costs and business profits)
CARRIED OUT IN THE WORKSITE	Backfilling	m³	1,152	€	2,00	€	2,30	Excavation - Foundation (with overhead costs and business profits)
		TOTAL	PRICE			c	1.841,81	

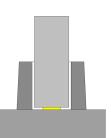


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## CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS Precast PAD Foundation VS Traditional cast-in-place footing and precast pocket

Brecast PAD FOUNDATION (POOTING)         bars (only bent- our produced box pack datases)         1.63         C         1.63         C         1.64         Cost does not include overhead costs and business profits)           PRECAST POUNDATION (POOTING)         Factory produced concrete         m <sup>3</sup> 1.63         €         51,80         €         84,43         Rck 30 N/mm <sup>3</sup> S4 (The cost does not include overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Coverhead costs          €         609,43           609,43           Overhead costs          €         792,26          Minimum ex- works alse price          €         990,33         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks          €         500,00         €         83,33         Km 200 / 6 precast elements           Assembly                 Nort	3.50 × 3.50 × 0.7 m           ITEM         U.M.         COST         NOTE           ITEM         U.M.         COST         NOTE           ITEM         U.M.         COST         NOTE           Discinguistication of the set of the	_					11000	<u> </u>		
Steel - Reinforcing bars (only bent - our produced concrete         Kg         750         €         0,60         €         450,00         Fe B 44 k 85kg/m <sup>6</sup> (Th cost dees not include overhead costs and business profits)           PAC FOUNDATION (POOTING)         Factory produced concrete         m³         1,63         €         51,80         €         84,43         Rck 30 N/mm <sup>5</sup> S4 (The cost dees not include overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Uninsum ex- works sales price         Hours         3         €         25,00         €         76,00           Amortization of the formworks         Hours         3         €         25,00         €         10,50         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks         E         500,00         €         33,33         Km 200 / 6 precast elements           Minimum sales price with transport and assembly         Im         4         €         10,00         €         40,00         4 Anchor Boils and B Threaded Coupler           Assembly system (Column- Foundation)         m³         10,952         €         50,00         €         54,76         3,70x3,70x0,8 m (with overhead costs and business profits)           Assembly workst	Steel - Reinforcing bars (only bent - our produced concrete         Kg         750         €         0,60         €         450,00         Fe B 44 k Skg/m <sup>2</sup> (The cost does not include overhead costs and business profits)           PAD FOUNDATION (POOTING)         Factory produced concrete         m <sup>3</sup> 1,63         €         51,80         €         84,43         Rok 30 N/mm <sup>2</sup> 54 (The cost does not include overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Labor         Hours         3         €         25,00         €         75,00           Total         Overhead costs         C         6         69,43         Cost ficient 1,25 (The cost includes business profits)           Minimum ex- works sales price         Minimum ex- works sales price         €         50,00         €         83,33         Km 200 / 6 precast elements           Amerization of the formworks         Image         Minimum sales price with transport         E         50,00         €         10,00         4         Anchor Bolts and 3           Assembly         Image         Minimum sales price with transport and assembly         Image         E         50,00         €         54,76         3,70x3,70x0,8 m (with overhead costs and business profits)	Y	PRE	IG) - MO	NACHINO					
BRECAST PAD FOUNDATION (POUTING)         bars (only bent- our produced none of rebars binding)         no         no         no         cost does not include overhead costs and business profits)           PRECAST POUNDATION (POUTING)         Factory produced concrete         m³         1,63         €         51,80         €         84,43         Rek 30 N/mm <sup>3</sup> S4 (The cost does not include overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Coverhead costs          €         609,43              Overhead costs          €         792,26          Coefficient 1,25 (The cost include business profits)           Amortization of the formworks          €         100,50         10%           Amortization of the formworks          €         100,50         10%           Assembly                Assembly                 Assembly                  Assembly	Beside Solution         Data S	<b>V V</b>	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE
PAD FOUNDATION       Factory produced concrete       m³       1,63       €       51,80       €       84,43       Rck30 N/mm 34 (fmm cost does not include cost does not include overhead costs and business profits)         Labor       Hours       3       €       25,00       €       75,00         Total       Certain       Certain       Certain       Certain       Certain       Certain       Certain         Overhead costs       Certain       Certain <thc< td=""><td>PAD FOUNDATION (POUNDATION)         Factory produced concrete         m³         1,63         €         51,80         €         84,43         Rek 30 K/mm² 54 (The overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Labor         Hours         3         €         25,00         €         75,00           Voerhead costs          €         182,83         30%           Total          €         192,26           Minimum ex- works sales price          €         192,26           Amortization of the formworks          €         100,50         10%           Royalty           €         100,50         10%           Transport         €         500,00         €         83,33         Km 200 / 6 precast elements           Assembly             €         100,50         10%           Assembly             €         1,223,87           Minimum sales price with transport and assembly         m             1         1         1</td><td>PRECAST</td><td>bars (only bent - our production process does not need rebars</td><td>Kg</td><td>750</td><td>€</td><td>0,60</td><td>€</td><td>450,00</td><td>cost does not include overhead costs and</td></thc<>	PAD FOUNDATION (POUNDATION)         Factory produced concrete         m³         1,63         €         51,80         €         84,43         Rek 30 K/mm² 54 (The overhead costs and business profits)           Labor         Hours         3         €         25,00         €         75,00           Labor         Hours         3         €         25,00         €         75,00           Voerhead costs          €         182,83         30%           Total          €         192,26           Minimum ex- works sales price          €         192,26           Amortization of the formworks          €         100,50         10%           Royalty           €         100,50         10%           Transport         €         500,00         €         83,33         Km 200 / 6 precast elements           Assembly             €         100,50         10%           Assembly             €         1,223,87           Minimum sales price with transport and assembly         m             1         1         1	PRECAST	bars (only bent - our production process does not need rebars	Kg	750	€	0,60	€	450,00	cost does not include overhead costs and
Total         E         609,43           Overhead costs         E         182,83         30%           Total costs         E         792,26           Minimum ex- works sales price         E         990,33         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks         E         14,70         E         100,50         10%           Transport         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         E         500,00         E         83,33         Km 200 / 6 precast elements           Minimum sales price with transport and assembly         E         100,00         4 precast foundation x hour (2 unskilled workers + 1 crane)           Minimum sales price with transport and assembly         Image: Column- Foundation         Image: Column- Foundation         Image: Column- Foundation           Assembly system (Column- Foundation)         nr         4         E         10,00         4 Anchor Boits and 8 Threaded Coupler           Minimum sales price with transport and assembly         m³         10,952         5,000         E         54,76         3,70x3,70x0,8 m (with overhead costs and business profits)           Minimum sales price with transport and assembly         m³         1,152         2,00         E <td>Total         Coverhead costs         Coverhead coverhead costs         Coverhead coverhe</td> <td>PAD FOUNDATION</td> <td>Factory produced concrete</td> <td>m³</td> <td>1,63</td> <td>€</td> <td>51,80</td> <td>€</td> <td>84,43</td> <td>cost does not include overhead costs and</td>	Total         Coverhead costs         Coverhead coverhead costs         Coverhead coverhe	PAD FOUNDATION	Factory produced concrete	m³	1,63	€	51,80	€	84,43	cost does not include overhead costs and
Overhead costs         E         30%           Total costs         E         182,83         30%           Total costs         E         182,83         30%           Minimum ex- works sales price         E         990,33         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks         E         14,70         E         100,50         10%           Transport         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         Iminimum sales price with transport and assembly         E         1.223,87         Iminimum sales           Minimum sales price with transport and assembly         Iminimum sales         Iminimum sales         Iminimum sales           Minimum sales price with transport and assembly         Iminimum sales         Iminimum sales         Iminimum sales           Minimum sales         Iminimum sales         Iminimum sales         Iminimum sal	Overhead costs         E         10, 50, 70         30%           Total costs         E         182,83         30%           Total costs         E         192,26         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks         E         144,70         Coefficient 1,25 (The cost includes business profits)           Amortization of the formworks         E         100,50         10%           Royalty         E         500,00         E         83,33         Km 200 / 6 precast elements           Assembly         E         500,00         E         83,33         Km 200 / 6 precast elements           Minimum sales price with transport and assembly         E         35,00         4 precast foundation x1 workers + 1 crane)           Minimum sales price with transport and assembly         E         1,223,87         Assembly workers + 1 crane)           Minimum sales price with transport and assembly         Image: Second and assembly         Image: Second and assembly         Image: Second and assembly         Image: Second and assembly           Assembly system (Column-Foundation)         Image: Second and assembly		Labor	Hours	3	€	25,00	€	75,00	
Total costs       E       792,26         Minimum exworks sales price       E       990,33       Coefficient 1,25 (The cost includes business profits)         Amortization of the formworks       E       100,50       10%         Royalty       E       100,50       10%         Transport       E       500,00       E       83,33       Km 200 / 6 precast elements         Assembly       E       500,00       E       83,33       Km 200 / 6 precast price with transport and assembly         Minimum sales price with transport and assembly       E       1.223,87       E       1.223,87         Minimum sales price with transport and assembly       Image: State of the same of the sam	Total costs $\epsilon$ 792,26         Minimum ex-works sales price $\epsilon$ 990,33       Coefficient 1,25 (The cost includes business profits)         Amortization of the formworks $\epsilon$ 14,70         Royalty $\epsilon$ 100,50       10%         Transport $\epsilon$ 500,00 $\epsilon$ 83,33       Km 200 / 6 precast elements         Assembly $\epsilon$ 35,00       4 precast foundation x 1 hour (2 unskilled workers + 1 crane)         Minimum sales price with transport and assembly $\epsilon$ 10,00 $\epsilon$ 40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column-Foundation) $nr$ 4 $\epsilon$ 10,00 $\epsilon$ 40,00       4 Anchor Bolts and 8 Threaded Coupler         Activities $concrete in situ$ $m^3$ 10,952 $\epsilon$ 50,00 $\epsilon$ 520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)       Dusiness profits)         Activities $m^3$ 1,152 $\epsilon$ 2,00 $\epsilon$ 2,30       Excavation - Foundation         Backfilling $m^3$ 1,152 $\epsilon$ 2,00 $\epsilon$ 2,30       Excavation - Foundation		Total					€	609,43	
Minimum exworks sales price <ul> <li></li></ul>	Minimum ex-works sales price       Image: Construction of the formworks		Overhead costs					€	182,83	30%
works sales price       cost includes business profits)         Amortization of the formworks       € 14,70         Royalty       € 100,50         Transport       € 500,00         Assembly       € 35,00         Assembly       € 35,00         Minimum sales price with transport and assembly       € 1.223,87         Minimum sales price with transport and assembly       € 1.223,87         Assembly system (Column- Foundation)       nr         Assembly system (Column- Foundation)       nr         Excavation       m³         10,952       € 5,00         € 500,00       € 54,76         3,70x3,70x0,8 m (with overhead costs and business profits)         Concrete in situ worksstre       m³         Backfilling       m³         1,152       € 2,00         € 2,30       € 2,30	works sales price       cost includes business profits)         Amortization of the formworks       € 14,70         Royalty       € 100,50       10%         Transport       € 500,00       € 83,33       Km 200 / 6 precast elements         Assembly       € 35,00       4 precast foundation x · hour (2 unskilled workers + 1 crane)         Minimum sales price with transport and assembly       € 1.223,87         Minimum sales price with transport and assembly       F       1.0,00       € 40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column- Foundation)       nr       4       € 10,00       € 40,00       4 Anchor Bolts and 8 Threaded Coupler         Activities THAT ARE CARRIED OUT IN THE WORKSTE       Excavation       m³       10,952       € 5,00       € 520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)		Total costs					€	792,26	
the formworks       C       1,10         Royalty       E       100,50       10%         Transport       E       500,00       E       83,33       Km 200 / 6 precast elements         Assembly       Assembly       E       35,00       4 precast foundation x hour (2 unskilled workers + 1 crane)         Minimum sales price with transport and assembly       E       1.223,87       Image: Comparison of the compari	the formworks       E       1,15         Royalty       E       100,50       10%         Transport       E       500,00       E       83,33       Km 200 / 6 precast elements elements elements over the							€	990,33	cost includes business
Transport       €       500,00       €       83,33       Km 200 / 6 precast elements         Assembly       Assembly       €       35,00       4 precast foundation x hour (2 unskilled workers + 1 crane)         Minimum sales price with transport and assembly       €       1.223,87         Assembly system (Column-Foundation)       mr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column-Foundation)       mr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Concrete in situ       m³       10,952       €       5,00       €       54,76       3,70x3,70x0,8 m (with overhead costs and business profits)         OUT IN THE WORKSITE       Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundation	Transport       € 500,00       € 83,33       Km 200 / 6 precast elements         Assembly       € 35,00       4 precast foundation x · hour (2 unskilled workers + 1 crane)         Minimum sales price with transport and assembly       € 1.223,87         Assembly system (Column-Foundation)       nr       4         Assembly system (Column-Foundation)       nr       4         Excavation       m³       10,952       € 500,00       € 40,00         Activities THAT ARE CARRIED OUT IN THE WORKSITE       Concrete in situ       m³       6,945       € 75,00       € 520,88       Rck 30 N/mm 2 s4 (with overhead costs and business profits)         WORKSITE       Backfilling       m³       1,152       € 2,00       € 2,30       Excavation - Foundation schemes profits)							€	14,70	
Assembly       Assembly <ul> <li> <ul> <li></li></ul></li></ul>	Assembly       Assembly <ul> <li> <ul> <li></li></ul></li></ul>		Royalty					€	100,50	
Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column- Foundation)       m³       10,952       €       5,00       €       54,76       3,70x3,70x0,8 m (with overhead costs and business profits)         Activities THAT ARE CARRIED OUT IN THE WORKSITE       Excavation       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)	Minimum sales price with transport and assembly       Minimum sales price with transport and assembly       € 1.223,87         Minimum sales price with transport and assembly       F       1.223,87         Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4 Anchor Bolts and 8 Threaded Coupler         Actrivities THAT ARE OUT IN THAT ARE WORKSITE       Excavation       m³       10,952       €       5,00       €       54,76       3,70x3,70x0,8 m (with overhead costs and business profits)         Activities THAT ARE OUT IN THAT WORKSITE       Excavation       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)		Transport			€	500,00	€	83,33	Km 200 / 6 precast elements
Activities THAT ARE CARRIES       Excavation       m³       10,952       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         Activities THAT ARE CARRIES       Concrete in situ       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         Activities THAT ARE CARRIES       Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundation (with overhead costs and business profits)	Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4       4         Assembly system (Column- Foundation)       nr       4       €       10,00       €       40,00       4 <td></td> <td>Assembly</td> <td></td> <td></td> <td></td> <td></td> <td>€</td> <td>35,00</td> <td>hour (2 unskilled</td>		Assembly					€	35,00	hour (2 unskilled
(Column-Foundation)       m³       10,952       €       5,00       €       54,76       3,70x3,70x0,8 m (with overhead costs and business profits)         ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE       Concrete in situ       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         OUT IN THE WORKSITE       Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundatio (with overhead costs)	Image: Column-Foundation       Column-Foundation       Threaded Coupler         ACTIVITIES THAT ARE CARRIED OUT IN THE       Excavation       m³       10,952       €       5,00       €       54,76       3,70x3,70x0,8 m (with overhead costs and business profits)         OUT IN THE WORKSITE       Concrete in situ       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         WORKSITE       Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundatior (with overhead costs and business profits)		price with transport and					€	1.223,87	
(Column-Foundation)     Image: Column-Foundation     Threaded Coupler       ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE     Excavation     m³     10,952     €     5,00     €     54,76     3,70x3,70x0,8 m (with overhead costs and business profits)       ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE     Concrete in situ     m³     6,945     €     75,00     €     520,88     Rck 30 N/mm 254 (with overhead costs and business profits)       Backfilling     m³     1,152     €     2,00     €     2,30     Excavation - Foundatio (with overhead costs)	Image: ACTIVITIES THAT ARE CARRIED OUT IN THE     Excavation     m³     10,952     €     5,00     €     54,76     3,70x3,70x0,8 m (with overhead costs and business profits)       OUT IN THE     Concrete in situ     m³     6,945     €     75,00     €     520,88     Rck 30 N/mm² S4 (with overhead costs and business profits)       WORKSITE     Backfilling     m³     1,152     €     2,00     €     2,30     Excavation - Foundation (with overhead costs and business profits)									
ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE     Concrete in situ DUT IN THE Backfilling     m³     6,945     €     75,00     €     520,88     Rck 30 N/mm² S4 (with overhead costs and business profits)       OUT IN THE WORKSITE     Backfilling     m³     1,152     €     2,00     €     2,30     Excavation - Foundation (with overhead costs)	ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE     Concrete in situ     m³     6,945     €     75,00     €     520,88     Rck 30 N/mm² S4 (with overhead costs and business profits)       OUT IN THE WORKSITE     Backfilling     m³     1,152     €     2,00     €     2,30     Excavation - Foundation (with overhead costs)		(Column-	nr	4	€	10,00	€	40,00	
ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE       Concrete in situ       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         OUT IN THE WORKSITE       Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundatio (with overhead costs	ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE       Concrete in situ       m³       6,945       €       75,00       €       520,88       Rck 30 N/mm² S4 (with overhead costs and business profits)         Backfilling       m³       1,152       €       2,00       €       2,30       Excavation - Foundation (with overhead costs)		Excavation	m³	10,952	€	5,00	€	54,76	overhead costs and
WORKSITE         Backfilling         m³         1,152         €         2,00         €         2,30         Excavation - Foundatio (with overhead costs)	WORKSITE     Backfilling     m³     1,152     €     2,00     €     2,30     Excavation - Foundation (with overhead costs and business profits)	THAT ARE CARRIED	Concrete in situ	m³	6,945	€	75,00	€	520,88	overhead costs and
	TOTAL PRICE € 1.841,81		Backfilling	m³	1,152	€	2,00	€	2,30	(with overhead costs
	TOTAL PRICE € 1.841,81									

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	TRADITIONAL CAST-IN-PLACE FOOTING WITH PRECAST POCKET (SOCKET) 3.50 x 3.50 x 0,70 m												
	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE					
	Steel - Reinforcing bars (Precast Pocket)	Kg	277,2	€	0,80	€	221,76	Fe B 44 k (The cost does not include overhead costs and business profits)					
PRECAST POCKET	Factory produced concrete (Precast Pocket)	m³	1,848	€	51,80	€	95,73	Pocket 1,70x1,70x1,10 m Rck 30 N/mm <sup>2</sup> S4 (The cost does not include overhead costs and business profits)					
	Labor	Hours	4	€	25,00	€	100,00						
	Total					€	417,49						
	Overhead costs					€	125,25	30%					
	Total costs					€	542,73						
	Minimum ex- works sales price					€	678,42	Coefficient 1,25 (The cost includes business profits)					
	Amortization of the formworks					€	14,70						
	Transport			€	500,00	€	83,33	Km 200 / 6 precast elements					
	Assembly					€	35,00	4 precast pocket x 1 hour (2 unskilled workers + 1 crane)					
	Minimum sales price with transport and assembly					€	811,45						
	Excavation (Precast Pocket)	m³	17,6	€	5,00	€	88,00	4,00x4,00x1,10 m (with overhead costs and business profits)					
	Excavation (footing base)	m³	12,8	€	5,00	€	64,00	4,00x4,00x0,80 m (with overhead costs and business profits)					
	Formwork (footing base)	m²	9,8	€	25,00	€	245,00	3,50x4x0,70 m (with overhead costs and business profits)					
ACTIVITIES THAT ARE	Steel - Reinforcing bars (footing base)	Kg	750	€	1,09	€	817,50	Fe B 44 k 85kg/m <sup>3</sup> (with overhead costs and business profits)					
CARRIED OUT IN THE WORKSITE	Concrete in situ (footing base)	m³	8,575	€	75,00	€	643,13	Footing base 3,50x3,50x0,70 m (with overhead costs and business profits)					
	Backfilling (Pocket)	m³	14,421	€	2,00	€	28,84	Excavation - Pocket (with overhead costs and business profits)					
	Backfilling (footing base)	m³	3	€	2,00	€	6,00	Excavation - Footing base (with overhead costs and business profits)					
	Mortar for filling between column and pocket	m³	0,44	€	75,00	€	33,00						
		TOTAL	PRICE			€	2.736,92						
	PEF	RCENTA	GE SAVINGS		33%								
	SAVING MADE E	BY USIN	G OUR CON	€	895,11								
			TEM										



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## CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS -Precast PAD Foundation VS Traditional cast-in-place footing with connection systems such as PEIKKO or HALFEN

Activities       Reinforcing base)       m²       9,8       €       25,00       €       24,00       3,50,450,70 m (with overhead costs and business profits)         At (The cost includes and fits)       Jig       m²       9,8       €       25,00       €       24,00       3,50,450,70 m (with overhead costs and business profits)         Its)       Jig       i       i       i       €       50,00         Its)       Jig       i       i       €       80,00       The cost includes preparation and pouring bases by of its big ig to the footing bases by of its big ig to the footing cage       35       €       1,09       €       38,15       Fee Ha 4 k (with overhead costs and business profits)         is infees       is in	-in-pla	ce footing wit	in connection	on sy	stems su	icn a	IS PEI	ĸκ	U or HA	LFEN
Prime tailed itts)       Steel- Reinforcing base)       Kg       750       €       1.09       €       817,50       Fe B 44 k 58kg/m² (with overhead costs and business profits)         44 (The tolude sand fits)       Formwork (footing base)       m²       9,8       €       25,00       €       245,00       3,50x40,070 m (with overhead costs and business profits)         1       Jig         €       50,00       The cost includes preparation and pounce preparation and pounce       €       80,00       The cost includes preparation and pounce preparation and pounce         5 (The siness       Additional reinforcing cage       Kg       35       €       1.09       €       38,15       Fe B 44 k (with overhead costs and business profits)         0 UV IN THE sines <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Clicke sand fits)         Reinforcing base)         m <sup>2</sup> 9,8         €         25,00         €         24,00         3,50,450,70 m (with overhead costs and business profits)           24 (The sand fits)         Jig			ITEM	U. M.	QUANTITY	€/	U. M.		COST	NOTE
Include signed fits)       ig       ig <td< td=""><td>m<sup>3</sup> (The nclude s and fits)</td><td></td><td>Reinforcing bars (footing</td><td>Kg</td><td>750</td><td>€</td><td>1,09</td><td>€</td><td>817,50</td><td>overhead costs and</td></td<>	m <sup>3</sup> (The nclude s and fits)		Reinforcing bars (footing	Kg	750	€	1,09	€	817,50	overhead costs and
and 8 piper       Connection systems (Column-Foundiation)       nr       12,8       70,00       Fee data costs and business profits)         and 8 piper       Connection systems (Column-Foundiation)       nr       12,8       6       70,00       €       840,00       Anchor Bolts and business profits)         and 8 piper       nr       12,8       €       70,00       €       840,00       Anchor Bolts and business profits)         and 8 piper       nr       12,8       €       70,00       €       840,00       Anchor Bolts and business profits)         and 8 sind fits)       nr       12,8       €       70,00       €       840,00       Anchor Bolts and Column-Foundiation)         n (with sind fits)       nr       12,8       €       50,00       €       643,13       Solution 2,50,00       Solution 2,50,00       Excavation coverhead costs and business profits)	64 (The nclude s and fits)			m²	9,8	€	25,00	€	245,00	overhead costs and
and 8 piper     Connection gradient     N°     State       and 8 piper     Connection gradient     N°     State     State       is (The siness     Connection gradient     N°     State     State     State       is (The siness     Connection gradient     Kg     State     State     State     State       is (The siness     Connection gradient     Kg     State     State     State     State       is (The siness     Connection gradient     N°     State     State     State     State       is (The siness     Connection gradient     N°     State     State     State     State       is (The siness     Connection gradient     N°     State     State     State     State       is (State     Connection gradient     N°     State     State     State     State       is and (State     Connection gradient     N°     State     State     State     State       is and (State     Connection gradient     N°     State     State     State     State       is and (State     State     N°     State     State     State     State       is and (State     State     N°     State     State     State       is and (State			Jig					€	50,00	
and 8 ppler       Connection systems (Column-Foundation)       m³       12       €       70,00       €       840,00       Anchor Bolts and business profits)         ation x illed frame)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         and 8 ppler       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         ifts)       Image: Source stand business profits)       Image: Source stand business profits)       Image: Source stand business profits)         ifts)       Image: Source stand business profit			assembly of					€	50,00	
ACTIVITIES THAT ARE CARRED OUT IN THE ACTIVITIES THAT ARE CARRED OUT IN THE WORKSITE areast ation x and 8 and 8 and 8 piper (councection fits) A (with s and fits) 								€	80,00	
Isiness         ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE         Image: Connection Systems (Column- Foundation)         Image: Connection Systems (Column- Systems (Column- Foundation)         Image: Connection Systems (Column- Systems (Column- Foundation)         Image: Connection Systems (Column- Systems (Column- Foundation)         Image: Connection Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Foundation)         Image: Connection Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (Column- Systems (			reinforcing bars to join the Jig to the footing reinforcing	Kg	35	€	1,09	€	38,15	overhead costs and
CARRIED WORKSITE       CARRIED WORKSITE       CARRIED WORKSITE       CARRIED WORKSITE       CARRIED Second Second Competition       Carrier Second Second Competition       Carrier Second Second Competition       Carrier Second Second Competition       Carrier Second Second Second Second Second Second Second Second Second Second Competition       Carrier Second Sec	5 (The usiness									
Access at ation x atio		CARRIED OUT IN THE								
ation x illed rane)     iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		WORKSITE								
aidled rane)       Image: Connection systems (Column-Foundation)       nr       12       €       70,00       €       840,00       Anchor Bolts and Column Shoes         n (with s and fits)       Sand fits)       Excavation (footing base)       m³       12,8       €       5,00       €       64,00       4,00x4,00x0,80 m (with overhead costs and business profits)         SAVING MADE BY USING OUR       €       2,00       €       643,13       Footing base (with overhead costs and business profits)         Image: Percentage SAVINGS       SAVING MADE BY USING OUR       €       2,00       €       6,00       Excavation - Footing base (so the same costs and business profits)	ecast									
spler     systems (Column- Foundation)     m     n<	ation x killed rane)									
n (with s and fits) → 4 (with s and fits) → 5 (Concrete in situ (footing base) → 5 (foo	and 8 ıpler		systems (Column-	nr	12	€	70,00	€	840,00	
G4 (with s and fits)       Concrete in situ (footing base)       m³       8,575       €       75,00       €       643,13       Footing base 3,50x3,50x0,70 m (with overhead costs and business profits)         iwith s and fits)       Backfilling (footing base)       m³       3       €       2,00       €       643,13       Footing base 3,50x3,50x0,70 m (with overhead costs and business profits)         iwith s and fits)       Backfilling (footing base)       m³       3       €       2,00       €       6,00       Excavation - Footing base (with overhead costs and business profits)         iftis)       Image: TOTAL PRICE       €       2.833,78       PERCENTAGE SAVINGS       35%         SAVING MADE BY USING OUR       €       991,97       991,97       991,97	n (with s and ıfits)		Excavation	m³	12,8	€	5,00	€	64,00	overhead costs and
with s and fifts)     (footing base)     Image: Constraint of the second constraint o	64 (with s and fits)		situ (footing	m³	8,575	€	75,00	€	643,13	Footing base 3,50x3,50x0,70 m (with overhead costs and
PERCENTAGE SAVINGS     35%       SAVING MADE BY USING OUR     € 991,97	i - with s and ifits)			m³	3	€	2,00	€	6,00	base (with overhead costs and business
SAVING MADE BY USING OUR € 991,97				тот	AL PRICE			€	2.833,78	
			PE	RCENT	AGE SAVING	S			35%	
								€	991,97	

_	Precast PAD Foundation VS Traditional cast-in									
	PRE	CAST F	PAD FOUNE 3.5		ON (FOO 3.50 x 0,7			NACHINO		
<i>y</i> 1	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE		
PRECAST	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	750	€	0,60	€	450,00	Fe B 44 k 85kg/m³ (The cost does not include overhead costs and business profits)		
PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	1,63	€	51,80	€	84,43	Rck 30 N/mm <sup>2</sup> S4 (The cost does not include overhead costs and business profits)		
	Labor	Hours	3	€	25,00	€	75,00			
	Total					€	609,43			
	Overhead costs					€	182,83	30%		
	Total costs					€	792,26			
	Minimum ex- works sales price					€	990,33	Coefficient 1,25 (The cost includes business profits)		
	Amortization of the formworks					€	14,70			
	Royalty					€	100,50	10%		
	Transport			€	500,00	€	83,33	Km 200 / 6 precast elements		
	Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)		
	Minimum sales price with transport and assembly					€	1.223,87			
	Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler		
	Excavation	m³	10,952	€	5,00	€	54,76	3,70x3,70x0,8 m (with overhead costs and business profits)		
ACTIVITIES THAT ARE CARRIED OUT IN THE	Concrete in situ	m³	6,945	€	75,00	€	520,88	Rck 30 N/mm <sup>2</sup> S4 (with overhead costs and business profits)		
WORKSITE	Backfilling	m³	1,152	€	2,00	€	2,30	Excavation - Foundation (with overhead costs and business profits)		
		TOTAL	PRICE			€	1.841,81			

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

	PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 3.50 x 3.50 x 0,7 m											
<b>7 1</b>	ITEM	U. M.	QUANTITY	€	/ U. M.		COST	NOTE				
	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	750	€	0,60	€	450,00	Fe B 44 k (The cost does not include overhead costs and business profits)				
PRECAST PAD FOUNDATION (FOOTING)	Factory produced concrete	m³	1,63	€	51,80	€	84,43	Rck 30 N/mm <sup>2</sup> S4 (The cost does not include overhead costs and business profits)				
	Labor	Hours	3	€	25,00	€	75,00					
	Total					€	609,43					
	Overhead costs					€	182,83	30%				
	Total costs					€	792,26					
	Minimum ex- works sales price					€	990,33	Coefficient 1,25 (The cost includes business profits)				
	Amortization of the formworks					€	14,70					
• •	Royalty					€	100,50	10%				
	Transport			€	500,00	€	83,33	Km 200 / 6 precast elements				
	Assembly					€	35,00	4 precast foundation x 1 hour (2 unskilled workers + 1 crane)				
	Minimum sales price with transport and assembly					€	1.223,87					
	Assembly system (Column- Foundation)	nr	4	€	10,00	€	40,00	4 Anchor Bolts and 8 Threaded Coupler				
	Excavation	m³	10,952	€	5,00	€	54,76	3,70x3,70x0,8 m (with overhead costs and business profits)				
ACTIVITIES THAT ARE CARRIED OUT IN THE	Concrete in situ	m³	6,945	€	75,00	€	520,88	Rck 30 N/mm <sup>2</sup> S4 (with overhead costs and business profits)				
WORKSITE	Backfilling	m³	1,152	€	2,00	€	2,30	Excavation - Foundation (with overhead costs and business profits)				
		TOTAL	1									

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		VITH 0,80 m					
	ITEM	U. M.	QUANTITY	€/U.M.		COST	NOTE
	Steel - Reinforcing bars (footing base)	Kg	750	€ 1,09	€	817,50	Fe B 44 k (with overhead costs and business profits)
	Formwork (footing base)	m²	11,2	€ 25,00	€	280,00	3,50x4x0,80 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	14,4	€ 5,00	€	72,00	4,00x4,00x0,90 m (with overhead costs and business profits)
	Concrete in situ (footing base)	m³	9,8	€ 75,00	€	735,00	Footing base 3,50x3,50x0,80 m (with overhead costs and business profits)
	Backfilling (footing base)	m³	3,375	€ 2,00	€	6,75	Excavation - Footing base (with overhead costs and business profits)
		TOTA	L PRICE		€	2.601,25	
	PE	RCENT	AGE SAVING	s		29%	
			E BY USING		€	759,44	

