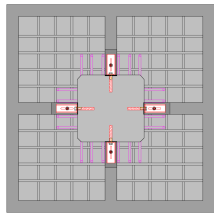
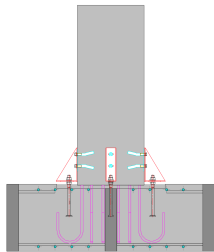


## CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS

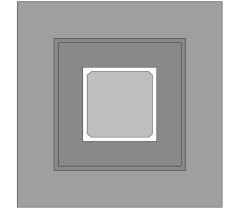
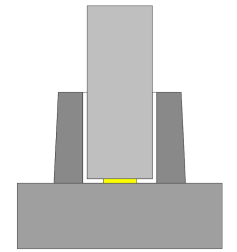
### Precast PAD Foundation VS Traditional cast-in-place footing and pocket



PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 3.50 x 3.50 x 0,7 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
<b>PRECAST PAD FOUNDATION (FOOTING)</b>	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)
	Factory produced concrete	m³	1,63	€ 51,80	€ 84,43	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)
	Labor	Hours	3	€ 25,00	€ 75,00	
	<b>Total</b>				€ 609,43	
Overhead costs				€ 182,83	30%	
<b>Total costs</b>				€ 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	
<b>ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE</b>	Excavation	m³	10,952	€ 5,00	€ 54,76	3,70x3,70x0,8 m (with overhead costs and business profits)
	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 and business profits)
<b>TOTAL PRICE</b>				<b>€ 1.841,81</b>		



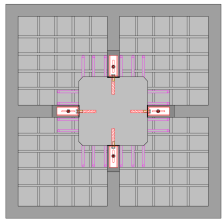
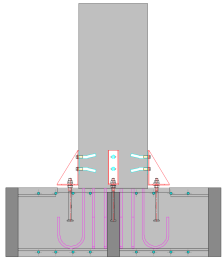
TRADITIONAL CAST-IN-PLACE FOOTING WITH POCKET (SOCKET) 3.50 x 3.50 x 0,7 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
<b>ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE</b>	Steel - Reinforcing bars (footing base)	Kg	750	€ 1,09	€ 817,50	Fe B 44 k 85kg/m³ (with overhead costs and business profits)
	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)
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/mm² 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		
<b>TOTAL PRICE</b>				<b>€ 2.674,22</b>		
<b>PERCENTAGE SAVINGS</b>				<b>31%</b>		
<b>SAVING MADE BY USING OUR CONSTRUCTION SYSTEM</b>				<b>€ 832,41</b>		



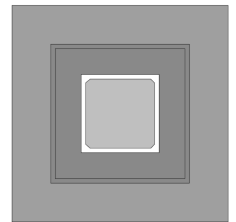
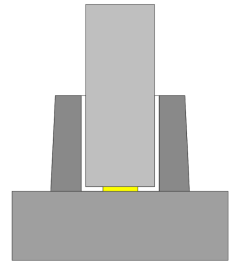
**CONSTRUCTION SYSTEMS COMPARISON - COST ANALYSIS**  
**Precast PAD Foundation VS Traditional cast-in-place footing and precast pocket**



PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 3.50 x 3.50 x 0,7 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
PRECAST PAD FOUNDATION (FOOTING)	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)
	Factory produced concrete	m³	1,63	€ 51,80	€ 84,43	Rck 30 N/mm² 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
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)
	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 and business profits)
<b>TOTAL PRICE</b>					<b>€ 1.841,81</b>	



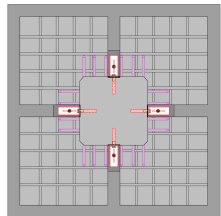
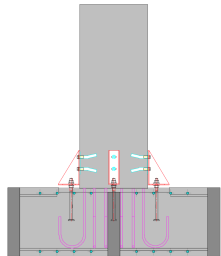
TRADITIONAL CAST-IN-PLACE FOOTING WITH PRECAST POCKET (SOCKET) 3.50 x 3.50 x 0,70 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
PRECAST POCKET	Steel - Reinforcing bars (Precast Pocket)	Kg	277,2	€ 0,80	€ 221,76	Fe B 44 k (The cost does not include overhead costs and business profits)
	Factory produced concrete (Precast Pocket)	m³	1,848	€ 51,80	€ 95,73	Pocket 1,70x1,70x1,10 m Rck 30 N/mm² 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	
ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE	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)
	Steel - Reinforcing bars (footing base)	Kg	750	€ 1,09	€ 817,50	Fe B 44 k 85kg/m³ (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 (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	
<b>TOTAL PRICE</b>					<b>€ 2.736,92</b>	
<b>PERCENTAGE SAVINGS</b>					<b>33%</b>	
<b>SAVING MADE BY USING OUR CONSTRUCTION SYSTEM</b>					<b>€ 895,11</b>	



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

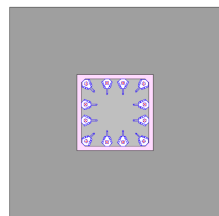
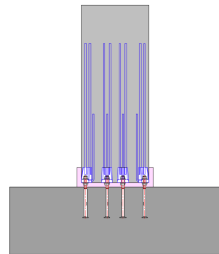


PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 3.50 x 3.50 x 0,7 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
<b>PRECAST PAD FOUNDATION (FOOTING)</b>	Steel - Reinforcing bars (only bent - our production process does not need rebars binding)	Kg	750	€ 0,60	€ 450,00	Fe B 44 k 85kg/m³ (The cost does not include overhead costs and business profits)
	Factory produced concrete	m³	1,63	€ 51,80	€ 84,43	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)
	Labor	Hours	3	€ 25,00	€ 75,00	
	<b>Total</b>				€ 609,43	
Overhead costs				€ 182,83	30%	
<b>Total costs</b>				€ 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	
<b>ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE</b>	Excavation	m³	10,952	€ 5,00	€ 54,76	3,70x3,70x0,8 m (with overhead costs and business profits)
	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 and business profits)
<b>TOTAL PRICE</b>				<b>€ 1.841,81</b>		



TRADITIONAL CAST-IN-PLACE FOOTING WITH BOLTED CONNECTION SUCH AS PEIKKO / HALFEN - 3.50 x 3.50 x 0,70 m						
ITEM	U. M.	QUANTITY	€ / U. M.	COST	NOTE	
<b>ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE</b>	Steel - Reinforcing bars (footing base)	Kg	750	€ 1,09	€ 817,50	Fe B 44 k 85kg/m³ (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)
	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	35	€ 1,09	€ 38,15	Fe B 44 k (with overhead costs and business profits)
	Connection systems (Column-Foundation)	nr	12	€ 70,00	€ 840,00	Anchor Bolts and Column Shoes
	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)
	<b>TOTAL PRICE</b>				<b>€ 2.833,78</b>	
	<b>PERCENTAGE SAVINGS</b>				<b>35%</b>	
	<b>SAVING MADE BY USING OUR CONSTRUCTION SYSTEM</b>				<b>€ 991,97</b>	

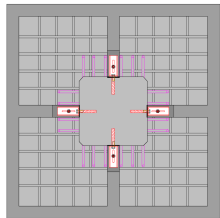
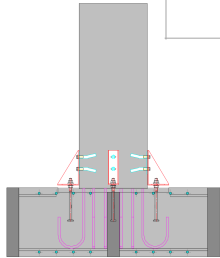
**This solution is not recommended for Seismic Zones**



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



PRECAST PAD FOUNDATION (FOOTING) - MONACHINO 3.50 x 3.50 x 0,7 m					
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)
Factory produced concrete	m³	1,63	€ 51,80	€ 84,43	Rck 30 N/mm² S4 (The cost does not include overhead costs and business profits)
Labor	Hours	3	€ 25,00	€ 75,00	
<b>Total</b>				<b>€ 609,43</b>	
Overhead costs				€ 182,83	30%
<b>Total costs</b>				<b>€ 792,26</b>	
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)
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 and business profits)
<b>TOTAL PRICE</b>				<b>€ 1.841,81</b>	



**ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE**

TRADITIONAL CAST-IN-PLACE FOOTING WITH STEEL CORRUGATED TUBES - 3.50 x 3.50 x 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
<b>ACTIVITIES THAT ARE CARRIED OUT IN THE WORKSITE</b>					
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)
<b>TOTAL PRICE</b>				<b>€ 2.601,25</b>	
<b>PERCENTAGE SAVINGS</b>				<b>29%</b>	
<b>SAVING MADE BY USING OUR CONSTRUCTION SYSTEM</b>				<b>€ 759,44</b>	

