

A) ESTIMATION: Stationary or mobile Plant capacity with MIB - Panel System and assumed working hours per year:

Working hours per year:

We assume 250 working days with a 2 (16 hrs) shift operation:

250 working days * 16 working hours/day = 4,000 working hours / year / machine

For a 3 MIB-molding machine scenario

4000 working hours / year / machine * 3 machines = 12,000 working hours / year

Output of Panels/year:

Total working hours for 3 machines <u>12,000 working hours / year</u>

Calculation for Mercado Panel

Assumption:

All molds to be operated with an estimated cycle time of 180 sec = **20 cycles / hour** Assumption, 6 cavity mold (MIB-Panel-System)

20 cycles / hour * 6 Panels / cycle = 120 panels / hour = **60 Stones / hour** 3 machines can manufacture 360 panels/ hour= **180 Stones / hour** Total yearly output based on the assumption:

Total output: 1,440,000 panels / year with 3 machines and 2 shift operation

These are: 518,545 sqm wall area.

(over 2500 houses with 200 sqm wall area)



ESTIMATION: Throughput of EPS:

The throughput of EPS is based on the maximum usage which is consumed by the 6 cavity MIB straight mold EPS building Panelstone assumed weight:

Assumed 0,45 kg per panel = 0,9kg per Panelstone (MIB - straight panel) 60 stones / hr * 0,9 kg = 54,0 kg / hr / machine

The assumed consumption of 3 machines is 54 kg / hr / machine * 3 machines = 162,0 kg / hr

Item 1) Erection supervision, Start up and Training

by MIB GmbH technical staff including:

- Set up of manufacturing unit
- Set up of Pre-expander
- Set up of the machines
- Set up of utility containers and connecting pipes modules
- Start up of energy modules
- Start up of machines and pre-expander
- Training on Pre-expander
- Training on machines
- Training on MIB-Mold handling
- Training 3 days

Item 2) Operating assistance for 3 months after start up

MIB GmbH technical staff via Interment or if required on site visits,

two days for troubleshooting and optimization.

Item 3) Down Time Critical MIB components

for 1 year operation of Pre-expander and the machines

Item 4) MIB-Maintenance Contract 3 years

for:

Pre-expander

MIB-Machines

1 annual visit by MIB application engineer for service, training and possible upgrade of machines according

Item 5) MIB-System Mold

For the production of EPS MIB-Staight-Panel-System (MIB)

1 x Part: MIB straight Panel mold

for molding machine

6 cavities straight panel (1200 x 300 x 55 mm)

Ore mixed 3 cavities straight panel (1200 x 300 x 100)

1 cavity 90 (105) mm, insert, cavity can be locked

1 cavity 140 (155) mm, insert, cavity can be locked

1 cavity 190 (205) mm, insert, cavity can be locked

insert parts for 100 mm, 150 mm and 200 mm concrete thickness.

molds ready to use.

Costs round about 1.100.000 EUR.

(amortization, see our ROI calculation sheet)

B) CONSUMPTION DATAS FOR SATELLITE PLANT:

Water:

 $20m^3$ circulation water for cooling system of shape molding machines, water consumption/ h app. 1,5 m³ for producing of steam for Pre-expander unit and shape molding machines. Water consumption in I = 1500/ hour.

Electrical energy:

240kW connected load, 200 KW/h operating load for production Plant

Oil Steam Boiler: 100 l/h operating hour

D) TRANSPORTCAPACITY

For transport of the Plants you would need

- 2x20 container
- 2x40-HQ container

E) Exclusions

Not included in the offer are:

- Transport + Insurance from work to site
- Buildings for hall, storage, personal etc.
- Heavy tools, lifting cranes, fork lifts, scaffolds etc. for erection
- Travelling expenses for MIB-technicians and MIB supporters for monitoring the contruction companys as: flight tickets, food, hotel, car.
- Foundation for hall, the customer arranges for the production of the foundation parts according to predicate drawing, consisting of all elements.

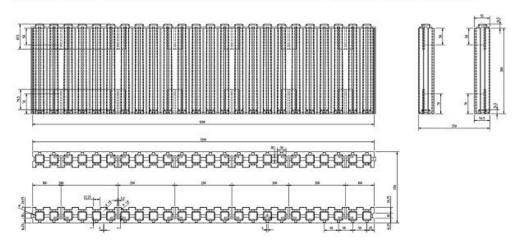
F) Terms and Conditions

Price basis is FCA (Incoterms 2000)
Payment 50% by order, 50% at time befor shipping.

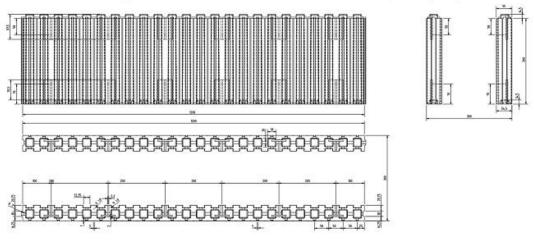
Delivery time: appr. 5-6 months from date of order and receipt of downpayment.



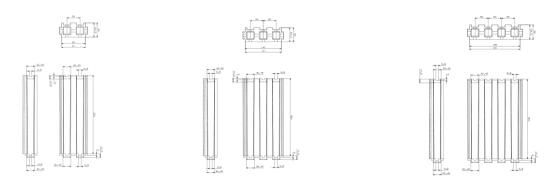
Mercado House - straigth Panel with 15 cm concrete core and Plastic ties/webs (POM)

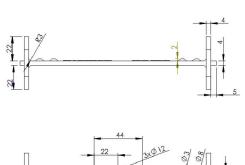


Mercado House - straigth Panel with 20 cm concrete core and Plastic ties/webs (POM)

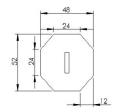


Insert parts for 100 mm, 150 mm and 200 mm concrete thickness





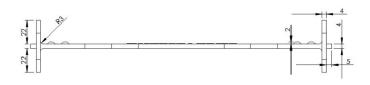




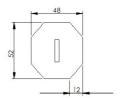


Exemple: MIB - plasic tie (POM) for 20 cm elements with 10 cm thickness concrete core. 32/sqm.











xemple: MIB - plasic tie (POM) for 30 cm elements with 20 cm thickness concrete core. 32/sqm



roduction costs - single draw up / 2	panels = 1 stone	Basic: 2 shift production					e, if a mobile plant is not already exis
				Mobile Plant (ex v		1.655.000,00 €	Please follow exchange rate
nergy costs / 2 panels = 1 stone	0,28 USD	day work	8 h	Transport / installation / sup	pport 6 mth.	inkl.	Please/follow exchange rate
stone volume	0,0396 m ^a	work days / year	300 d	MH-Licence and supp	port 12 mth.	inkl.	Please,follow exchange rate
stone weight	1,0480 kg	machines HS1450	2 unit		Investment	1.655.000,00 €	Please follow exchange rate
gas consumption	0,094 m ³ gas/kg steam	production time / year / shift	4.800 h	Depreciation/ Amo	ortization *1	10	Years 210,000,00 USD/year
costs steam production	0.05 USD/kg	straight parts	100%			possibly	300,000,00 USD/year
steam consumption / kg EPS	3,50 kg	drawer parts	100%		ction costs	,,	4.313.088,00 USD/year
steam costs / kg EPS	0.175 USD/kg	cycle time	180 s				
	1,100000	ovole total	96.000.00 unit				
steam costs / stone	0.175 USD	panel per cycle (10 units)	960.000,00 unit	Manufactu	uring price	4.823.088.00 USD/vear	incl. 210,000 USD depreciation/amort.
	0,110 000	drawer elements per cycle (1 unit)	96.000,00 unit	Sales i		6.048.000.00 USD/year	no. 210,000 050 deprecatory amor c
energy costs	0.09 USDKWH	Wall area per cycle	96.000,00 Unit	Sules I	Income	5.045.000,00 O3D/year	
consumption/ kg EPS	0,09 OSDRWH 0,45 kWh/kg	drawer element per cycle	1,80 sqm 1.00 unit	Gross	avefit.	1,224,912.00 USD/vear	
					pront	1.224.912,00 USD/year	
energy costs / kg EPS	0,041 USD/kg	Wall area / year (2 shift / 2 machine)	345.600,00 sqm				
							turing price, sales income and gross profit),
energy costs / stone	0,041 USD	production / day					ne mold, we will redouble these 3 figures again
		production / hour	148,00 sqm				of 180 seconds, but we should regard this as
compressed air costs	0,03 USD/cbm						ocess, because you should be able to reduce
compressed air consumption / kg EPS	0,90 m³/kg	Drawer elements / year	192.000,00 unit				, which also would raise and increase
compressed air costs / kg EPS	0,036 USD/kg			your profit over 30 percent	at the same tim	ie.	
		drawer elements / day	640 unit				
compressed air costs / stone	0,036 USD	drawer elements / hour	80 unit				
water costs	2.39 USD/cbm	ROI (Return of invest) calculation					
water consumption / kg EPS	0.014 m³/kg	(B. A. see see on		a Comment	
water costs / kg EPS	0.03 USD/kg	Productivity		MERC	*/^\ D C		CONTRACTOR OF A VICE OF A
Wald Cools / Ng El C	0,00 00Ding	Working days / year	300	1712110	,	ع وسام ال	The second secon
water costs / Stone	0.030 USD	Shifts / day	2				12 1/1
water costs / Storie	0,000 000	Hours / day	8.00 h	*			
		People / shift	8,00 n	Technical suppor	t		TO STATE OF THE PARTY OF THE PA
Material / stone	4.054 USD	Cycle time	180 s	0.000			N. Park Control of the Control of th
				Phone: 0049 (0) 561-57 9	83 98- 0	W. HATTING S. CO.
raw material	2,096 USD	Straight 30/ panel / cycle	10 unit	Fax: 0049 (0) 561 - 57 9	83 98- 8	TOTAL CONTRACTOR OF THE PARTY O
webs (15 concrete core)	1,960 USD	Drawer Elem. / cycle	1 unit	147. 0042 (0,501 5,5	05 50 0	
		Labour costs	5,00 USD/h	SAMONIAN ASSESSMENT			and the same of th
Working costs / stone	0,16 USD			E-Mail: info@m	nercado-hous	e.com	
working costs / h (3 worker x 5,00 USD)	15,00 USD/h	Material		Web: www.n	mercado-hous	e.com	100
production (2 panels) = 1 Stone	100 unit/h	Density	29 kg/m³				
		Raw material	2,00/ USD/ kg	II .			
working costs / stone	0,15 USD	Costs per web	0,17/ unit	II.			3
drawer elements	0,01 USD	Quantity of webs per stone	12	II.			
		Quantity of webs per sqm	32	II.			No.
duction costs / stone (0.36 sam)	4.494 USD/stone (0.36 sam)	Energy		1——			AN .
luction costs / sqm (Factor 2,777)	12.48 USD/sgm	Gas	0.18 / USD / m ³	1			
	33, 15 500/3q111	Water	0.28 / USD / m ³	Please note:			
material price based 06-2012	2.000.00 USD/to		4,20 , 400 / 111	"MERCADO House" does	not arent for the	a correctness of calculat	inna
material price based 00-2012	2.000,00 050/t0	Sales price per 1200 x 300 straight panel stone	6.30 USD/ unit	Basics: "MERCADO House			
and the facilities as a second	47.50.1150 /	Sales price per 1200 x 300 straight pariel storie	0.43 USD/ unit	*1 : based on current excl			
es price to building company	17,50 USD / sqm	Sales price drawer element	0,43 USD/UNIT	I . Dased off Current exc	man A e ratte i LOILI	EON 10 03D = 1,25 (30	110 2012)

