RULIBA CLAYS LTD

RULIBA SUSPENDED FLOOR UNIT SLIDES

Introduction about RCL

- Rwandan company
- ISO 9001:2015 certified
- Uses 100% local raw materials
- Made in Rwanda certified products
- RSB products certified regularly as per requirements

Maxpan: what is it?

- A hallow non local bearing block
- Cement
- Clay-burnt –RCL type
- Types-sizes

Why use maxpans?

- Cost benefit and Ease in use
- Less materials
- Quicker to execute project
- Environment consideration
- Design- use of less materials

Products and their specifications

Qualities;

• Strengthened to meet required strength as a filler on floors

• Low weight to cover for their use and lessen the weight for floors

• Enough size to cater for bigger area per square coverage.

•Speeds up work due to very fast rate of execution.

• Easy to handle

• Cheap compared to concrete slab hence low cost incurred

Cross section of slab with maxpan type 12

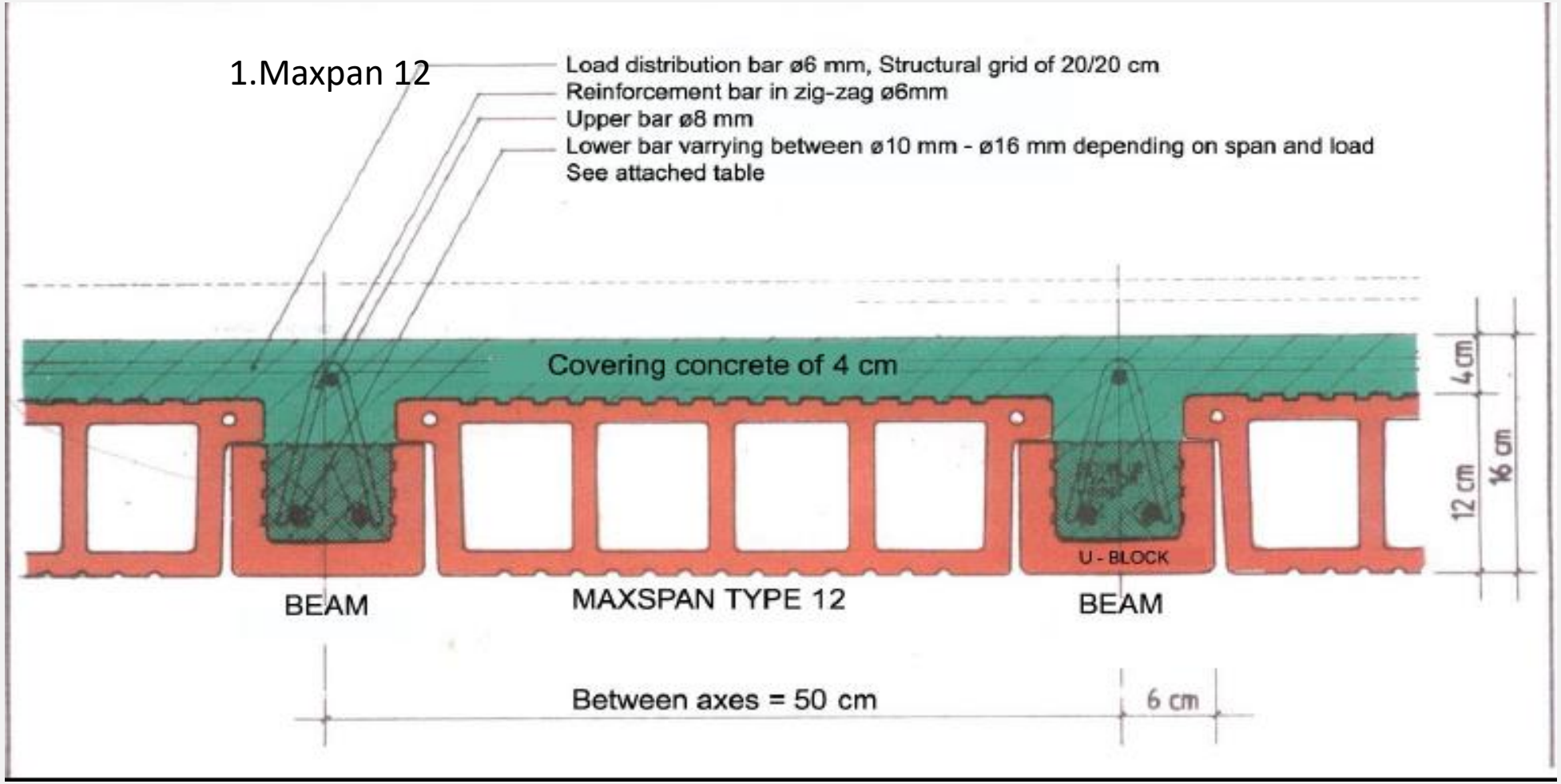

Table guide for maxpan 12

MAXSPAN TYPE 12

Maximum effective span (between walls)	Design bearing load in kg/m^2. (Type12) including cover concrete coarse			
	300kg/m^2	400kg/m^2	500kg/m^2	600kg/m^2
255cm	2 x ø10mm	2 x ø10mm	2 x ø10mm	2 x ø10mm
290cm	2 x ø10mm	2 x ø10mm	2 x ø12mm	2 x ø12mm
315cm	2 x ø10mm	2 x ø12mm	2 x ø12mm	2 x ø12mm
340cm	2 x ø12mm	2 x ø12mm	2 x ø14mm	2 x ø14mm
370cm	2 x ø12mm	2 x ø14mm	2 x ø14mm	2 x ø14mm
395cm	2 x ø12mm	2 x ø14mm	2 x ø14mm	2 x ø16mm
420cm	2 x ø14mm	2 x ø14mm	2 x ø16mm	2 x ø16mm
445cm	2 x ø14mm	2 x ø16mm	2 x ø16mm	Not possible

Cross section of slab with maxpan type 16

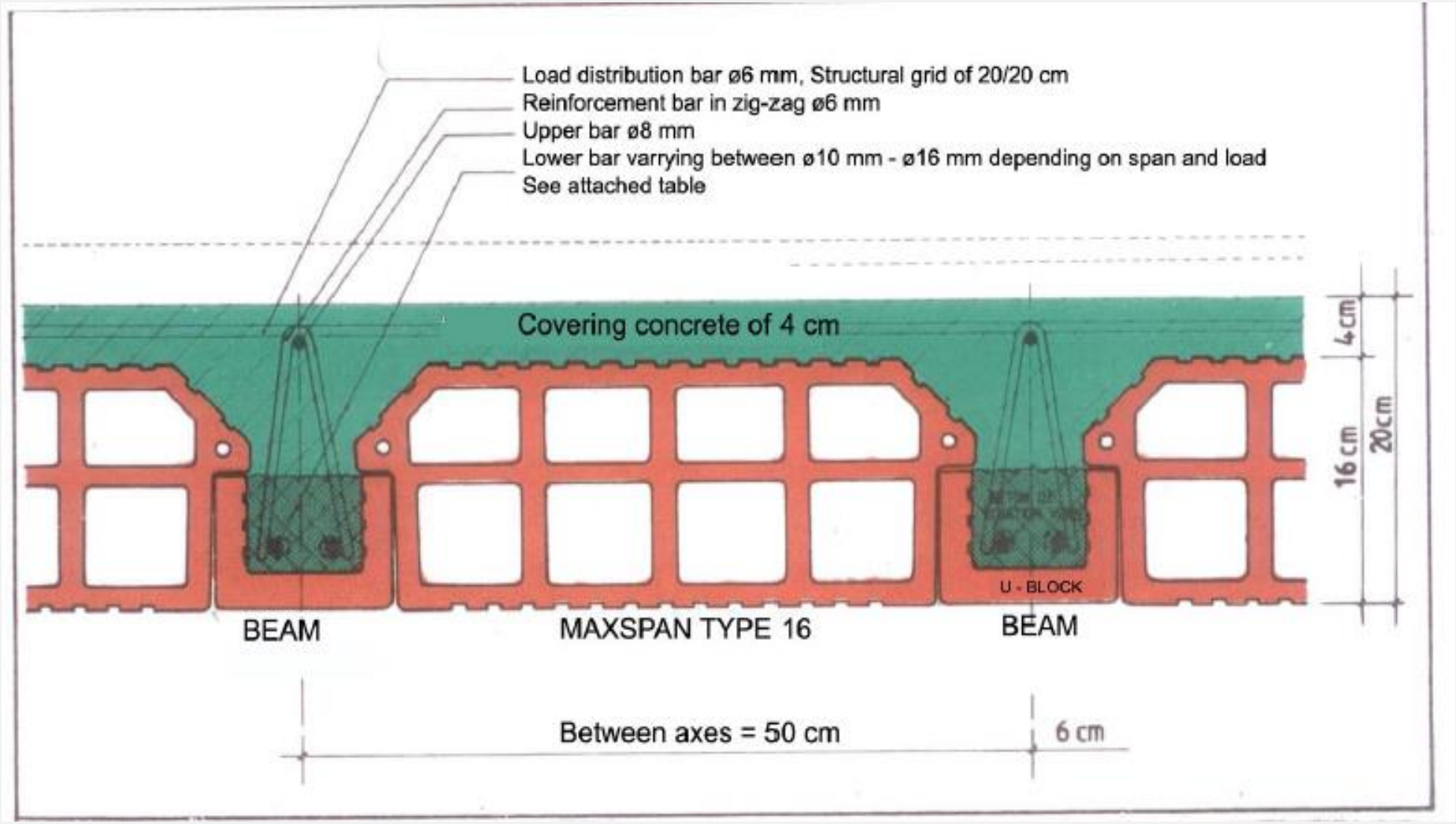

Table guide for maxpan 16

MAXSPAN TYPE 16

Maximum effective span (between walls)	Design bearing load in kg/m^2. (Type16) including cover concrete coarse			
	300kg/m	400kg/m^2	500kg/m^2	600kg/m^2
255cm	2 x ø10mm	2 x ø10mm	2 x ø10mm	2 x ø10mm
290cm	2 x ø10mm	2 x ø10mm	2 x ø10mm	2 x ø10mm
315cm	2 x ø10mm	2 x ø10mm	2 x ø10mm	2 x ø12mm
340cm	2 x ø10mm	2 x ø10mm	2 x ø12mm	2 x ø12mm
370cm	2 x ø10mm	2 x ø12mm	2 x ø12mm	2 x ø14mm
395cm	2 x ø12mm	2 x ø12mm	2 x ø14mm	2 x ø14mm
420cm	2 x ø12mm	2 x ø14mm	2 x ø14mm	2 x ø14mm
445cm	2 x ø14mm	2 x ø14mm	2 x ø14mm	2 x ø16mm
475cm	2 x ø14mm	2 x ø14mm	2 x ø16mm	Not possible
500cm	2 x ø14mm	2 x ø16mm	Not possible	Not possible
525cm	2 x ø16mm	2 x ø16mm	Not possible	Not possible
550cm	2 x ø16mm	Not possible	Not possible	Not possible

COMPARISION OF SUSPENSION FLOOR MADE WITH RULIBA MAXPANS AND ORDINARY CONCRETE SLAB PER M^2 Cost Compared

Ordinary concrete slab

I. ORDINARY CONCRETE SLAB OF 15CM THICKNESS					
	DESIGNATION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
i	**Reinforcing steel**				
1	Reinforcing steel Ø10 of 12m	Each	1	5,800	5,800
2	Annealed wire	kg	2	1,500	3,000
	Sub/tot				**8,800**
ii	**Concrete casting**				
1	Concrete	m^3	0.15	200,000	30,000
	Sub/tot				**30,000**
	Formwork				
iii	Timber of 45–50mm X 130-150mm X 3,800-4,000mm	Each	2	3,000	6,000
1	Timber of of 20–25mm X 140-160mm X 3800-4000mm	Each	2	2,150	4,300
2	Nails	kg	1	1,200	1,200
	Sub total				**11,500**
	TOTAL COST PER SQUARE METER USING ORDINARY CONCRETE SLAB				50,300

MAXPAN FORMWORK

LAYING

FORMWORK REMOVAL

Max spans after being laid

MAXPAN COST IN ONE M^2

II.	SLAB WITH MAXPAN 12				
	DESIGNATION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
N°	Reinforcing steel				
i	Reinforcing steel Ø10 of 12m	Each	0.2	5,800	1,160
1	Reinforcing steel Ø8 of 12m	Each	0.1	4,000	400
2	Reinforcing steel Ø6 of 12m	Each	1.2	3,000	3,600
3	Annealed wire	kg	1	1,500	1,500
	Sub total				6,660
ii	Concrete casting (beams and 4cm thickness above maxpans)				
1	Concrete casting (beams)	m^3	0.0144	200,000	2,880
2	Concrete casting (4cm thickness above maxpans)	m^3	0.04	200,000	8,000
	Sub/tot				10,880
1	Maxpans 12	Each	8	1,000	8,000
2	Ribs for maxpan	Each	8	250	2,000
	Sub/tot				10,000
	Formwork				
iii	Timber of 45–50mm X 130-150mm X 3,800-4,000mm	Each	2	3,000	6,000
1	Nails	kg	0.5	1,200	600
2	Sub total				6,600
	TOTAL COST PER SQUARE METER USING MAXPAN 12				34,140

I.	SLAB WITH MAXPAN 16				
N°	DESIGNATION	UNIT	QTY	UNIT PRICE	TOTAL PRICE
1	Reinforcing steel				
2	Reinforcing steel Ø10 of 12m	Each	0.2	5,800	1,160
3	Reinforcing steel Ø8 of 12m	Each	0.1	4,000	400
4	Reinforcing steel Ø6 of 12m	Each	1.2	3,000	3,600
5	Annealed wire	kg	1	1,500	1,500
	Sub total				6,660
ii	Concrete casting (beams and 4cm thickness above maxpans)				
1	Concrete casting (beams)	m^3	0.015	200,000	3,000
2	Concrete casting (4cm thickness above maxpans)	m^3	0.04	200,000	8,000
	Sub/tot				11,000
1	Maxpans 16	Each	8	1,200	9,600
2	Ribs for maxpan	Each	8	250	2,000
	Sub/tot				11,600
	Formwork				
iii	Timber of 45–50mm X 130-150mm X 3,800-4,000mm	Each	2	3,000	6,000
1	Nails	kg	0.5	1,200	600
2	Sub total				6,600
	TOTAL COST PER SQUARE METER USING MAXPAN 16				35,860

Cost benefit in percentage

Ordinary slab 15cm thick	Maxpan 12	Maxpan 16
50,300rwf =100%	34,140rwf=32%	35,860rfw=29%

FORMWORK

Sample of a Complete project

RULIBA CONTACTS

- Diogene ZINARIZIMA
- Commercial Manager

- Santus Owiny
- Production Controller

- Honore NZAYISENGA
- Head of Safety & Quality Assurance

THANK YOU