



The Market Pioneers since 1977

A Member of



Technical Data Sheet

Contents:

Introduction	2
Rough Interlocking	3
Hard Stone	5
Curbstone	6
Solid Bricks	7
Hollow Blocks	8
Decorative Screens	11
Wheel Stoppers	12

Introduction:

Founded in 1977 by the good father of construction in Egypt the late Engineer **Osman Ahmed Osman**, **Technocrete** is a specialized manufacturing company in the field of producing precast paving, blocks and other concrete products. The original plantation was located in Haram district in Giza Egypt. Realizing the need to expand the company established its factory in 10th of Ramadan and expanded its presence in Ismailia and followed by Minya. Since established, Technocrete has been committed to deliver premium quality products to the local market and serve national and private sectors with a clear mission of commitment.




Understanding market needs, **Technocrete** acquired a new fully integrated German production line. The currently operational in 10th of Ramadan complex.



The manufacturing system is able to produce a wide range of paving and CMU's meeting various market needs from colors, shapes and strengths.

Technical Data Sheet- Rough Face Interlocking

Shape	Rectangle			Hexagonal		I-Shape		Rhombus	Uni
Length (cm)	20			19.7		20		32.5	22.5
Width (cm)	10			22.6		16.5		19	13.5
Thickness (cm)	6	8	10	6	8	6	8	8	8
Units / m ²	50			30		36		30	40
Weight (kg/m ²)	130	170	220	130	170	130	170	170	170
Strength	200 - 550 kg / cm ²								
Standard specifications	(ES 269-2005) (EN 1338-2003) (BS 6717-1993) (ASTM C 936)								
									

Shape	Otaka	Crocus	Classico	Circles	S-Shape
Length (cm)	33	14.5	17.5	11.5	24
Width (cm)	6	14.5	11.5	11.5	12
Thickness (cm)	6	6	6	6	8
Units / m ²	36	46	54	96	36
Weight (kg/m ²)	130	130	130	130	170
Strength	200 - 550 kg / cm ²				
Standard specifications	(ES 269-2005) (EN 1338-2003) (BS 6717-1993) (ASTM C 936)				
					

Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Pigments: According to desired color
- Additives: Upon request to improve abrasion resistance and compressive strength




Manufacturing Method:

Technocrete uses global automated machines with high rate of production and quality. The raw materials are mixed mechanically then casted and pressed hydraulically with using of mechanical vibrators to get high density pavers with high strength.

Color Variety:



Technical Data Sheet- Hard Stone (Smooth Face) Interlocking

Shape	Rectangle	Butterfly	X-O
Length (cm)	20	19	X : 32 - O : 25
Width (cm)	10	16	X : 32 - O : 25
Thickness (cm)	6	6	4
Units / m ²	50	35	18
Weight/m ² (kg)	130	110	95
Standard Specification			
			

Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Pigments: According to desired color
- Additives: Upon request to improve workability and compressive strength

Manufacturing Method:

The raw materials are mixed mechanically then casted into plastic moulds with using of mechanical vibration to get high density tiles with high strength.

Color Variety:



Technical Data Sheet- Curbstone

Shape	Bulk	Medium	Garden
Length (cm)	50	50	50
Width (cm)	30/25	15/12	8
Height (cm)	30	30	25
Units /LM	2	2	2
Weight /LM	170	90	37
Standard Specification	(ES 1289 - 2003) - (ES 1289-2008) - (EN 1340-2003)		
			


Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Pigments: According to desired color
- Additives: Upon request to improve compressive strength

Color Variety:



Technical Data Sheet- Solid Bricks

Length (cm)	25
Width (cm)	12
Thickness (cm)	6
Weight (kg)	3.6
Density (kg/m ³)	2000
Standard Specification	For Non-Load bearing Blocks(ES 1292-2/2005 &ASTM C-129)
	For Load Bearing Solid Blocks (ES 1292-1/2005 & ASTM C-90)
	

Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Additives: Upon request to improve compressive strength



Manufacturing Method:

The raw materials are mixed mechanically then casted and pressed hydraulically with using of mechanical vibrators to get high density Bricks with high strength.

Color Variety:





Technical Data Sheet- Hollow Blocks NLB

Shape	Hollow 12 cm	Hollow 20 cm	Hollow 25cm
Bottom Type	Closed	Open	Closed
Length (cm)	40	40	40
Width (cm)	12	20	25
Height (cm)	20	20	20
Web thickness	3.5	3.5	4
Density (kg/m ³)	Normal Weight Concrete > 2000		
Average weight (kg)	17.5	19	25
Blocks/Mt ²	104	63	50
Compressive Strength	Average 4.14 MPA after 28 days		
Standard Specifications	(ES 1292-2/2005 & ASTM C-129)		
			

Color Variety:



Technical Data Sheet- Hollow Blocks LB

Shape	Hollow 12 cm	Hollow 20 cm	Hollow 25cm
Bottom Type	Closed	Closed	Open
Length (cm)	40	40	40
Width (cm)	12	20	25
Height (cm)	20	20	20
Web thickness	3.5	3.5	4
Density (kg/m3)	Normal Weight Concrete > 2000		
Weight (kg)	17.5	19	27
Blocks/Mt2	104	63	50
Compressive Strength	Average 13.1 MPA after 28 days		
	(ES 1292-1/2005 & ASTM C-90)		
			

Color Variety:




Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Additives: Upon request to improve compressive strength

Manufacturing Method:

The raw materials are mixed mechanically then casted and pressed hydraulically with using of mechanical vibrators to get the best pressing and highest strength.

Technical Data Sheet- Decorative Screen

Length (cm)	60
Width (cm)	40
Thickness (cm)	10
Weight (kg)	35
	

Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Additives: Upon request to improve compressive strength


Manufacturing Method:

The raw materials are mixed mechanically then casted and pressed hydraulically with using of mechanical vibrators to get the best pressing and highest strength.

Color Variety:



Technical Data Sheet- Wheel Stoppers

Length (cm)	164
Width (cm)	20
Thickness (cm)	11
	

Raw Materials Used:

- Portland Cement type: Ordinary Portland Cement (type-1) According to standard specification ES 373-1993
- Clean sand: According to (ASTM C-33 & BS 812-part 118)
- Aggregates: According to (ASTM C-33 & BS 812-part 105)
- Additives: Upon request to improve compressive strength

Color Variety:

