

HANDMADE TECHNICAL DATA

MATERIALS

- Front Layer: Portland cement, micron marble powder, marble chip (optional), admixture, special chemicals, color pigment
- Back Layer: Grey Portland cement, sand, chemicals

FINISHES







- Unpolished
- Polished with Marble Chip
- Grooved/Unpolished
- Grooved/Polished with Marble Chip

PRODUCTION CAPACITY

- Pavers: 200 sq.m./day
- Abstratchi: 40 sq.m./day
- All other Handmade: 100 sq.m./day

APPLICATIONS

- Indoor & outdoor, Walls & floors (except Grooved finish, which is only suitable for walls)
- Interior floors and walls in residential & commercial projects (public areas, receptions, bathrooms, kitchens, hallways). Decorative interior features (chimney breasts, interior feature walls, niches, bar cladding, kitchen backsplashes, table tops).

SHAPE / SIZE CM	THICKNESS	WEIGHT/SQ.M.	TILES/SQ.M.
SQUARE			
10x10	18 mm	19 kg	100
15x15	18 mm	19 kg	44.4
20x20	18 mm	19 kg	25
25x25	20 mm	21 kg	16
30x30	25 mm	26 kg	11.1
40x40	30 mm	31.5 kg	6.25
HEXAGON			
19x19	18 mm	19 kg	30
DIAMOND			
11.5x11.5	18 mm	19 kg	50
14.5x14.5	18 mm	19 kg	10
SKIRTING			
10x20	18 mm	19 kg	5/m length
10x30	18 mm	19 kg	3.1/m length
10x40	25 mm	26 kg	2.5/m length
RECTANGULAR			
5x20	18 mm	19 kg	100
10x20	18 mm	19 kg	50
10x30	18 mm	19 kg	33.3
10x40	25 mm	26 Kg	25
12x24	18 mm	19 kg	34.7
15x30	18 mm	19 kg	22.2
PAVERS			
 29.5x29.5 21.7x21.7	20 mm	21 kg	11 large pcs 11 small pcs
 Arousa 15x19	20 mm	21 kg	28
 Farasha 26x22	20 mm	21 kg	32
 I-Shape 13.2x22.2	20 mm	21 kg	40
 Parquet 10x20	20 mm	21 kg	50
 Hexagon 10.5x24	20 mm	21 kg	28

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ENVIRONMENTAL SUSTAINABILITY

Handmade encaustic cement tiles are considered a green, environmentally friendly product. They typically last the lifetime of the building and have extremely low maintenance costs. They are made of natural raw materials (marble chips, white cement and natural color oxides) and the production process is non-polluting and uses minimum energy, as tiles are not fired in a kiln (unlike ceramic tiles). No harsh chemicals are used that might affect the environment, and it is a product that is comprised of zero Volatile Organic Compounds (VOC) materials, exhibiting little or no off-gassing over the life of the cured floor. Materials are locally sourced, minimizing transportation costs.

PRODUCTION & QUALITY CONTROL

- Each cement tile is hand made to order using a centuries old process that has been handed down from generation to generation.
- Automated weigh stations for the calibration of raw materials according to the required standard ratios of the batching plans.
- Colored cement mixture is hand-poured into the pattern tile molds, followed by the cement mix for the back layer.
- The tile is then hydraulically pressed under high pressure. A good tile should be highly compact and waterproof.
- Once complete, the tile undergoes a thorough curing process to increase its strength.
- Quality control is performed on an individual basis (piece by piece) not by lot production.

INSTALLATION & MAINTENANCE

Handmade cement tiles are installed according to industry standard methods, taking note of the following:

- In the case of floor installation, an under-layer of clean, dry sand with a thickness of 5-12cm should be laid beneath the tiles.
- The quantity of cement in the fixing mortar should be at least 200kg and no more than 250kg per cubic meter of sand.
- Cement mortar should be of a soft (but not too liquid) consistency and applied with a thickness of at least 2cm.
- Lay tile from a room's center-point to ensure cut tiles are at edge of floor near the walls.
- Grout lines should be between 1mm-3mm thick.
- Excess grout should be constantly cleaned off the face of the tile during installation.
- White cement should be used for grouting, and a colored oxide of the same color as the tile may be added to the grouting cement if desired.
- The floor should not be used for at least 24 hours after installation.
- For large projects (above 10,000 sq.m. of tile), it is recommended to install the tiles 10 days after delivery to give time for the tiles dry after curing.
- It is recommended to clean the tile products on a daily basis of sand and/or dust.