

## Technical sheet

### **Composition**

Portland cement, sand, marble powder, water and natural colour pigments.

### **Production**

Cement tiles are made by hand with the help of metallic molds and a hydraulic press. Contrary to ceramic tiles, cement tiles are not exposed to firing but gain their strength from curing.

Pigments and salt present in the cement will deposit onto the surface of the tile. This produces a varied (sometimes almost blotched), chalky look similar to limewash. A large part of the variations and salts present on newly installed tiles will disappear over time and with cleaning but not entirely.

### **Characteristics**

Each cement tile is individually made and variations in thickness, size and color as well as imperfections like irregular edges and corners as well as pattern contours being partly blurred are inherent to the manufacturing process. These characteristics add to the tiles' natural appeal and do not compromise performance. The pigment layer is about 3-4 mm which gives the tiles a long lifespan.

### **Applicable standards**

Cement tiles are not regulated by European (CE) or national standards. In the absence of cement tile standards, please find below tests.

### **Environment friendly products**

With natural organic materials and the non-burn manufacturing process, cement tiles are an environment friendly product.

### **Manufacturing tolerance**

Length/width +/-0,4mm

Thickness: 0,7mm

### **Abrasion resistance**

ASTM: 14,2

TCVN: 0,56 (g/cm<sup>2</sup>)

Please advise with Marrakech Design regarding abrasion resistance ASTM vs TCVN

### **Slip rate**

*Slip rate for our tiles made in Morocco*

*Please consult with Marrakech Design*

Raw (unsealed) dry principal: 72,66 PTV (equated with R13)

Raw (unsealed) wet principal: 57,66 PTV (equated with R12)

Sealed (Miracle 511 / Eco Protec Natural Finish Stone Sealer)

Dry principal: 69,33 PTV (equated with R12)

Wet principal: 51 PTV (equated with R11)

Sealed (polished surface)

Dry principal: 57 PTV (equated with R12)

Wet principal: 21 PTV (equated with R10)

*Slip rate for our tiles made in Vietnam*

*Please consult with Marrakech Design*

Raw (unsealed) dry principal: 68,66 PTV (equated with R12)

Raw (unsealed) wet principal: 48,66 PTV (equated with R11)

Sealed (Miracle 511 / Eco Protec Natural Finish Stone Sealer)

Dry principal: 67 PTV (equated with R12)

Wet principal: 45,33 PTV (equated with R11)

Sealed (polished surface)

Dry principal: 55,66 PTV (equated with R12)

Wet principal: 19,66 PTV (equated with R10)

#### **Static coefficient of friction**

*Static coefficient of friction for our tiles made in Morocco*

Raw (unsealed) dry principal: 0,88 ASTM

Raw (unsealed) wet principal: 0,79 ASTM

*Static coefficient of friction for our tiles made in Vietnam.*

Raw (unsealed) dry principal: 0,89 ASTM

Raw (unsealed) wet principal: 0,65 ASTM

#### **Acid resistance**

Cement tiles are not resistance to acid. We recommend cleaning with pH-neutral cleaners (mild soap and water).