

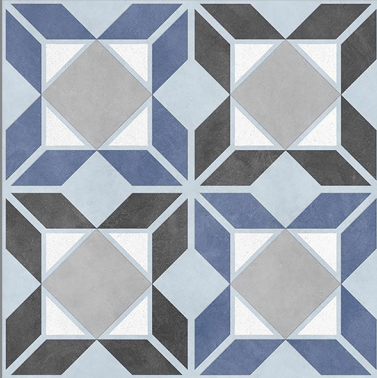


**DITTA**

Porcelain



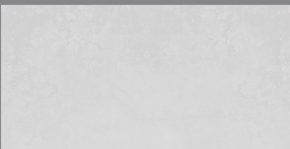
**DITTA**  
**30X30**  
**MOROCCO**



**WHITE**

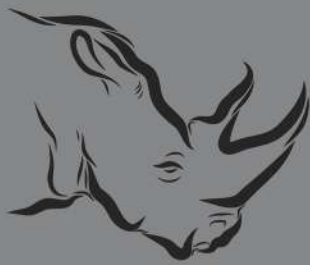


**LIGHT GRAY**



**DARK GRAY**





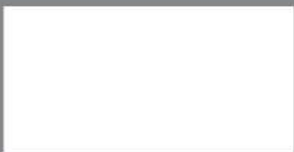
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**30X30**

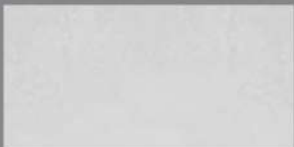
**KABAN**



**WHITE**

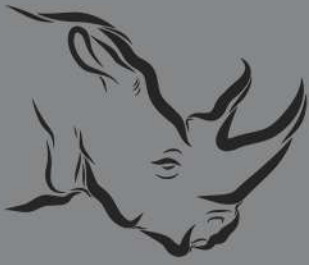


**LIGHT GRAY**



**DARK GRAY**





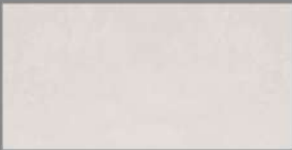
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**30X30**  
**LAVA**



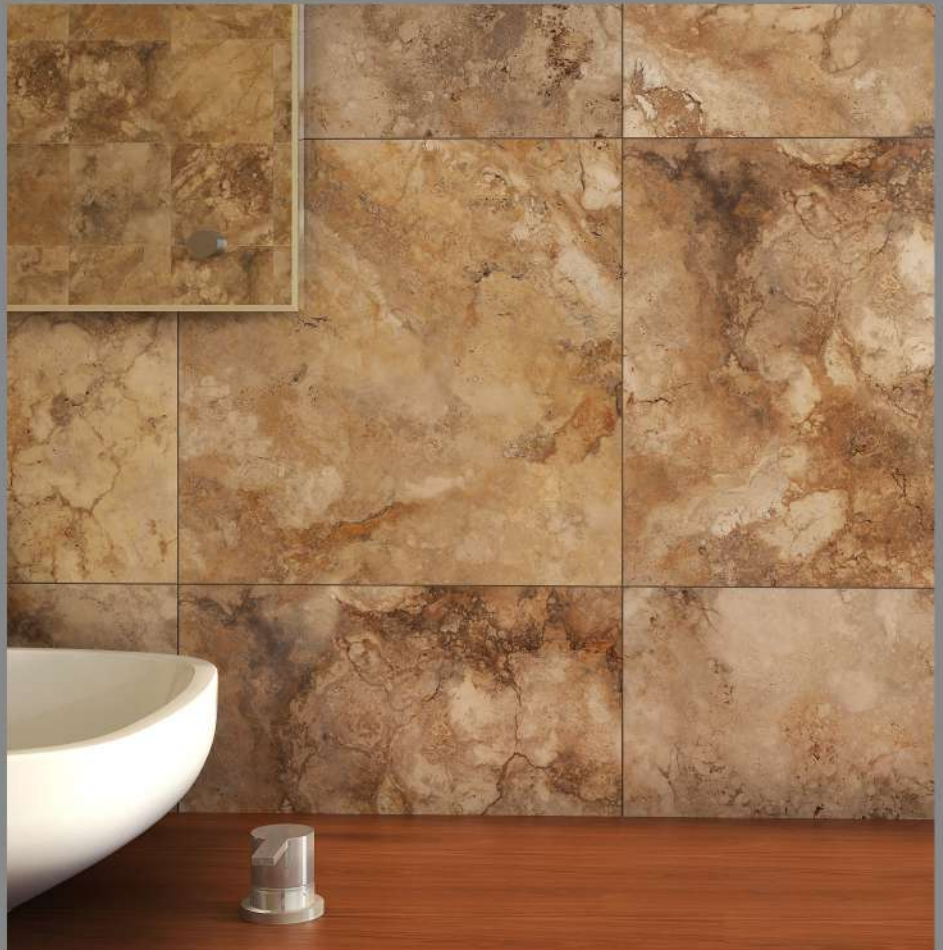
**WHITE**



**LIGHT CREAM**



**LIGHT GRAY**





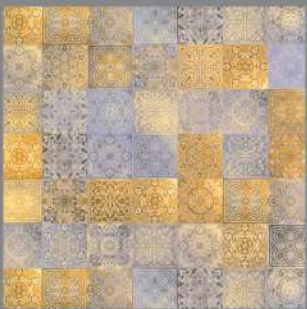
**DITTA**

**30X30**

**HERA**



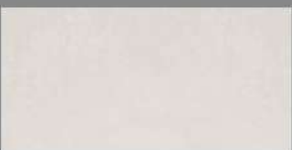
**SELENE**



**WHITE**



**LIGHT CREAM**



**LIGHT GRAY**





**DITTA**  
**30X30**

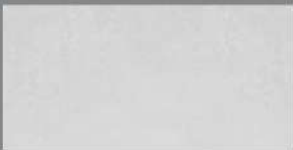
**LETO**



**WHITE**



**LIGHT GRAY**



**DARK GRAY**





**DITTA**

**30X30**

**ARES**



**WHITE**



**LIGHT CREAM**



**LIGHT GRAY**



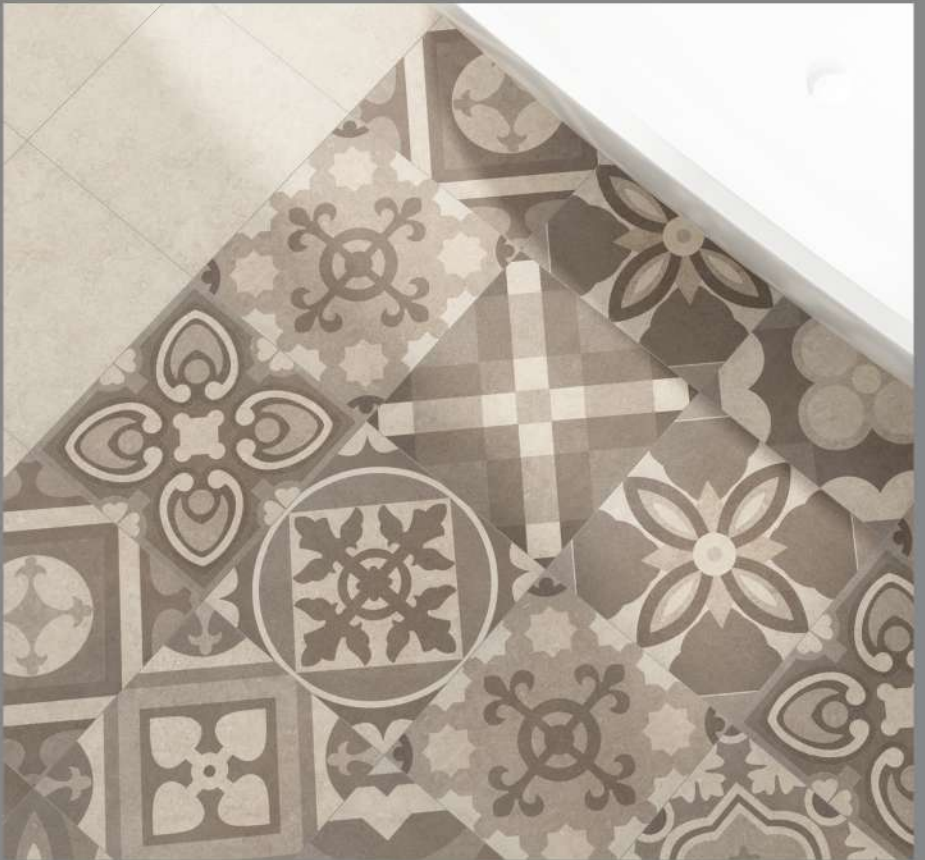


**DITTA**  
**30X30**

**MAYA**



**ANO**





## Test Report And Technical Specification Of Products

Manufacturer Company	Takceram Tile
Nominal Size	300 × 300
Working Size	300 × 300 , 305 × 305
Thickness (mm)	12
Date Of Measuring	2016.06.14

Type	Matt GL
Type Of Application	Wall & Floor
Place Of Application	Interior & Exterior

Standard No.	INSO 25 - ISO 13006
Water Absorbition Group	BI <sub>b</sub>
App Area (m <sup>2</sup> )	1.02

Chemical Class	A
Abrasion Class	2
Staining Class	4

### Dimensions, Flatness and Surface Quality

No.	Specification / Test		Value Of Takceram	Standard	Test Method
1	Dimensions	1-1	Deviation Of Side Dimensions	± 0.2 %	INSO 9169-2
		1-2	Thickness (mm)	12 ± 5 %	
2	Straightness Of Sides (Work Size % )		± 0.15 %	± 0.5 %	
3	Rectangularity (Work Size % )		± 0.15 %	± 0.5 %	
4	Surface Flatness	4-1	Centre Curvature (diagonal Of Work Size %)	± 0.2 %	
		4-2	Edge Curvature (diagonal Of Work Size %)	± 0.15 %	± 0.5 %
		4-3	Warpage (diagonal Of Work Size %)	± 0.15 %	± 0.5 %
5	Surface Quality		Acceptable	Minimum 95% Of Tiles Shall Be Free From Visible Defects	

### Physical Properties

No.	Specification / Test		Value Of Takceram	Standard	Test Method
6	Water Absorption		E ≤ 2.5	0.5 ≤ E ≤ 3	INSO 9169-3
7	7-1	Failure Force (N)	F ≥ 2500	F ≥ 1100	INSO 9169-4
	7-2	Modulus Of Rupture (N/mm <sup>2</sup> )	M ≥ 35	M ≥ 30	
8	Resistance To Surface Abrasion	Resistance To Surface Abrasion Of Glazed Tiles Intended For Use On Floors	Abrasion Class II	Abrasion Class Should Be Mentioned Test Method Available	INSO 9169-7
9	Linear Thermal Expansion (From Room Temperature to 100°C)		6.5 × 10 <sup>-6</sup>	Test Method Available	INSO 9169-8
10	Thermal Shock Resistance		Resistant	Required	INSO 9169-9
11	Crazing Resistance (Autoclave)		Resistant	Required	INSO 9169-11
12	Frost Resistance		Resistant	Required	INSO 9169-12
13	Moisture Expansion		Acceptable	Test Method Available	INSO 9169-10
14	Small Color Differences		Acceptable	Test Method Available	INSO 9169-16
15	Impact Resistance		Acceptable	Test Method Available	INSO 9169-5
16	Coefficient Of Friction		---	Test Method Available	ISO 10545-17
17	Surface Hardness (Mohs)		X ≥ 6.5	X ≥ 6	ISIRI 3996

### Chemical Properties

No.	Specification / Test		Value Of Takceram	Standard	Test Method
18	Resistance To Staining		Class 4	≥ Class 3	INSO 6200
19	Resistance To Low Concentrations Of Acids And Alkalis		A	Manufacturer To State Classification	ISO 10545-13
20	Resistance To High Concentrations Of Acids And Alkalis		---		
21	Resistance To Household Chemicals & Swimming Pool Salts		Resistant		
22	Lead And Cadmium Release		---	---	INSO 9169-15

### Other Specification's

No.	Specification / Test		Value Of Takceram	Standard	Test Method
23	23-1	Packaging And Marking		Acceptable	INSO 25
	23-2	"National Standard" & "Made In Iran" Sign		Has	
	23-3	Other Required Sign & Information		Has	

Quality Control Technician

Quality Control Manager