


**ASKARO®**

PRODUCT  
*Catalogue*

www.askaro.com.tr

ISO 9001:2008  CE TS-213-12 / EN 13748-12 / TSE 14843 / GOST "ГОСТ"



**ASKARO®**

*Natural Surface of  
Interior, Exterior and Facade*



We are colouring Surfaces  
with the inspiration coming from nature  
for 42 years...

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AS KARO®

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## FOR 42 YEARS

AS KARO was founded by Bekir Ovacilli on 1974 in Tarsus - Mersin.

AS KARO; has created its corporate culture on customer satisfaction basis by harmonizing knowledge and experience transferred from the previous generation with continuous research / development and contemporary designs.

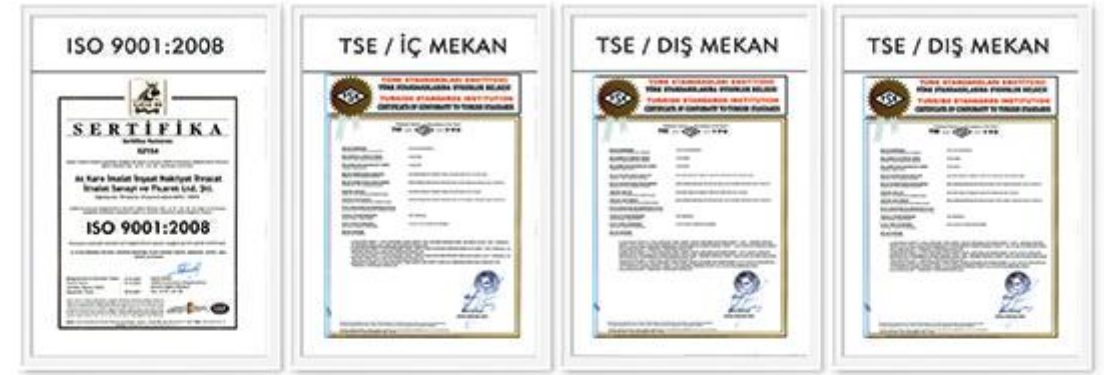
AS KARO produces structural members for creating liveable, pleasant spaces for 42 years with that corporate culture.

AS KARO is established on 35,500 m2 area; and produces daily 5000 m2 floor covering, 1000 m2 facade and 800 metre net precast products with its experienced staff working with team spirit and technological infrastructure,

Today, AS KARO has product range with more than 1200 kinds and always presents new options in building finishing elements to constructors, architects, engineers and end users through the advanced technology used in production as well as R&D studies.

AS KARO; as one of the leading companies directing building finishing members sector of our country; makes exports to total 30 countries principally as Australia, Norway, U.K., Azerbaijan, Iraq, Libya, Germany, T.R.N.C., Jordan, Russia, the Netherlands, Italy, Israel, Sweden, Afrika and Switzerland.

AS KARO has ISO 9001:2008 Quality Management System and CE Building Materials Directive compliance, TS 213-1 EN 13748-1 (Interiors), TS 213-2 EN 13748-2 (Exteriors), TS EN 14843 (Stair Steps) Quality Standards certificates.





#### WHY TILES?

Tiles, when compared with similar products such as marble, ceramic, terrazo is initially economic and have long life and homogeneous colour, anti-slip surface and hygienic terrazo. Colour and pattern sets may be created for exteriors, resistant against shocks, heat, frost, corrosion proof, may be produced in any shape and same product can be found even after many years.

#### WHY AS KARO?

AS KARO follows all world wide developments in its sector since its foundation and invested its earnings from this work again to its work. AS KARO combined more than 40 years of knowledge and experience with continuously renewed production technology and successful product research - development, and has justified proud of being a sector leader with maintained customer satisfaction, quality, speed and capacity.

#### STEAM CURING

All products manufactured by AS KARO are dried by steam curing method. This method is the most advanced method used by World's leading major manufacturers. The product dried with this method eliminates water requirement and all pieces are produced with the same quality.

#### PRODUCT DELIVERY IN 2 DAYS

Terrazzo tiles can be delivered in 2 days through wide production capacity, steam curing system and advanced production technology of AS KARO.

#### CUSTOM PRODUCTION FOR PROJECTS

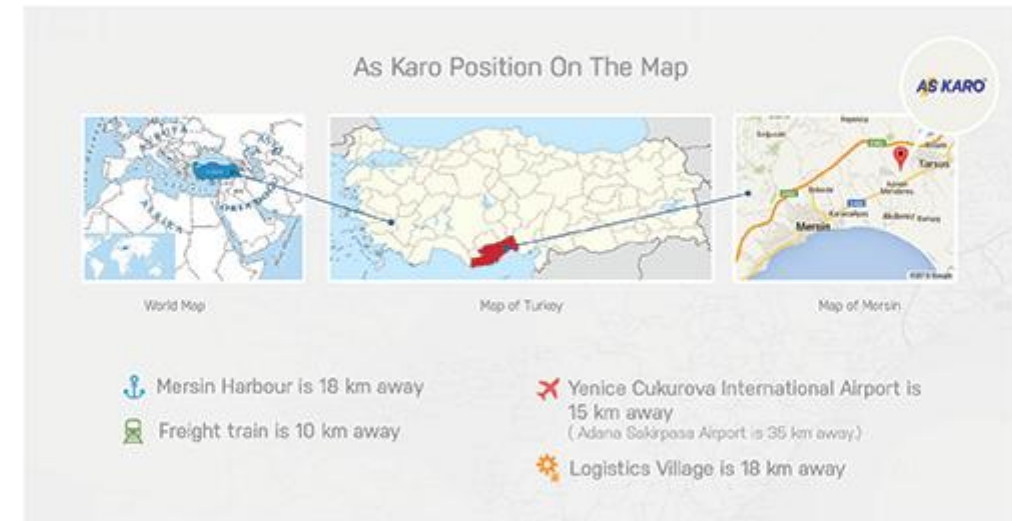
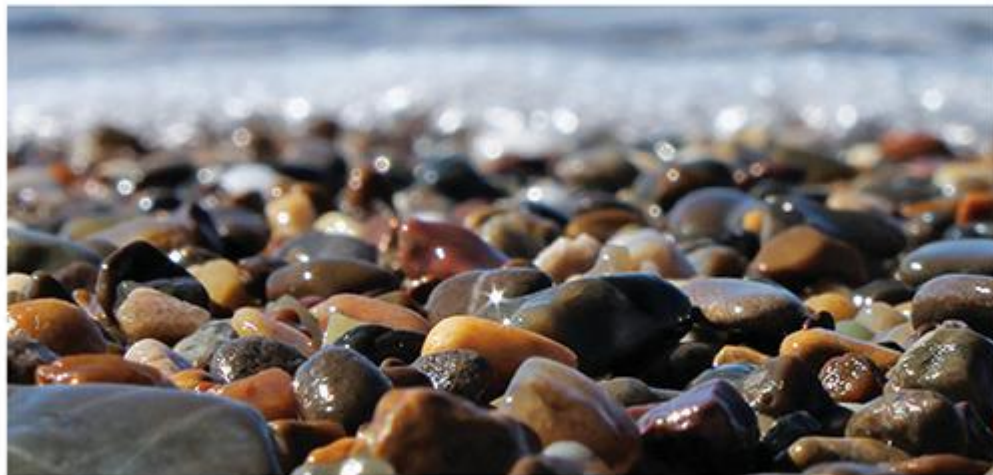
AS KARO can manufacture custom products for every project thanks to its advanced production technology and flexible production structure.

#### PRODUCT CONCEPT

Colour, pattern concepts can be created in all products manufactured by AS KARO depending on request of architecture and engineers and requirements of projects. For instance; all products used at exteriors and park gardens and even rain gutters may be manufactured with the same pattern and colour with terrazzo tile used at interiors.

#### ALWAYS ADVANCED MANUFACTURING TECHNOLOGY

AS KARO closely monitors technological developments in the World regarding building finishing members and continuously renews its manufacturing technology.



#### LEADER IN PRODUCT DEVELOPMENT AND RESEARCH

AS KARO is the leader of its sector in research and product development. Data, examinations, recommendations compiled from engineers and architects on site are used for improving the product quality and creating new products in its own laboratory.

#### PRODUCTS ARE EXCLUSIVE AND AT WORLD QUALITY STANDARDS

AS KARO makes tiny distinctions at manufacturing stage and quality control. Its products are always same regarding quality and standard and at World quality standards.

#### HEAT RESISTANT - HEAT INSULATED-DONA-ASIDE-SHOCK RESISTANT AND ANTI-SKIDDING

AS KARO can manufacture products those are heat resistant, heat insulated, frost proof and resistant against shocks and acid with pH levels from 4 to 13. Also, all products are corrosion-resistant, ageless and non-slipping.

#### 100 % NATURAL

All products manufactured by AS KARO are 100% natural and not contain any chemical substances. Products such as marble, quartz, granite are linked together with cement through advanced manufacturing technology as they are received from the nature.

#### 100 % LOCAL

AS KARO utilizes 100% local raw materials in all manufactured products. Furthermore, it provides foreign currency for our country through products exported from European countries to Australia.

#### LIGHT AND FLEXIBLE

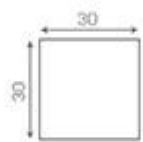

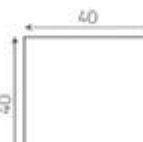
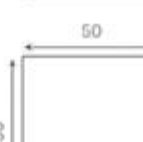
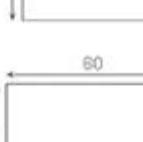
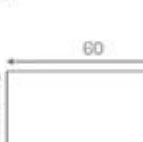

All products of AS KARO are light and flexible by virtue of the advanced manufacturing technology. Therefore, AS KARO products are easily recognized.

#### DURABLE



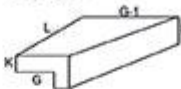

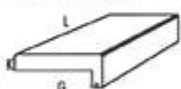
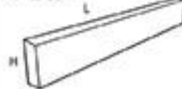


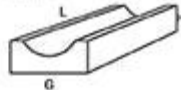




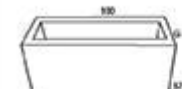



AS KARO works rigorously with its expert staff from raw material selection until manufacturing stage and in all stages from quality control until product research and development. Thus, quality of all products is single type and durable.

## SIZE AND SURFACE OPTIONS

AS KARO®

Product Name	Floor and Wall Covering Dimensions	Size Options (cm)
POLISHED		30x30x16-3,0
HONED		33,3x33,3x16-3,0
BRUSHED		40x40x18-4,0
SAND BLUSTED		50x50x22-5,5
ANTIQUÉ		30x60x22-5,5
WASHCONCRETE		40x60x22-4-5,5
		60x60x22-4-5,5

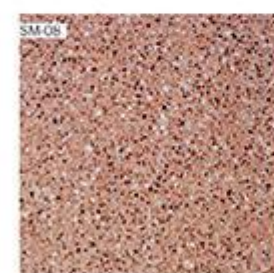
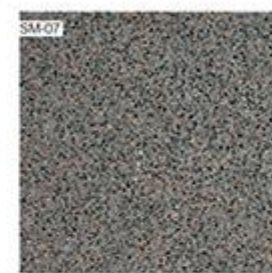
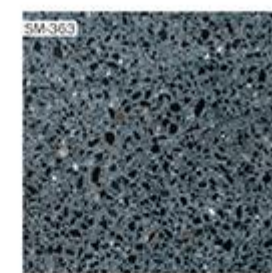
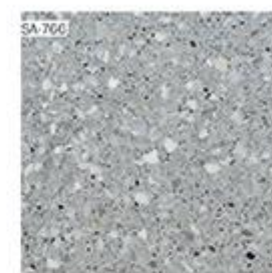
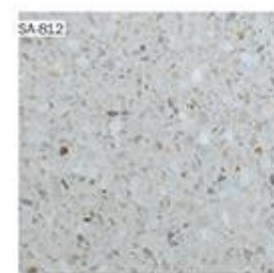
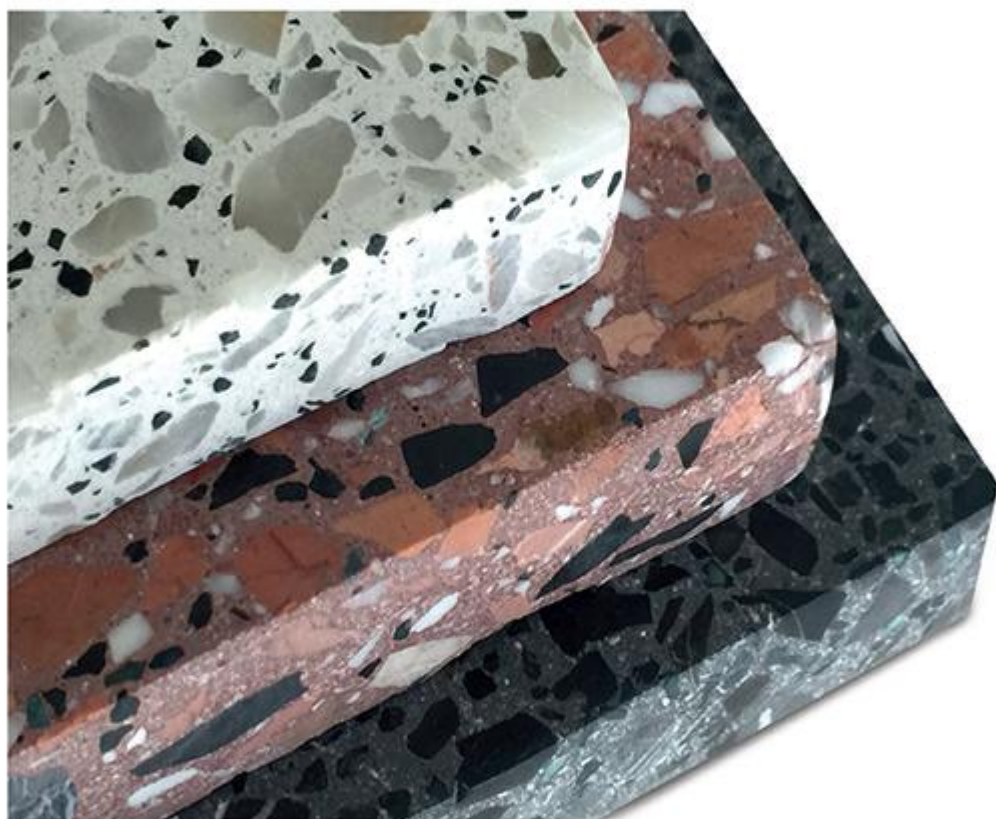
ORDER TODAY, RECEIVE TOMORROW ! 

<b>L STAIR</b> L:Max 220cm/H:14-20cm G:25-40cm/K:3,5-4,5cm 	<b>L FLAT STAIR</b> L:Max 220cm/H:14-22cm G:25-40cm/K:3,5-4,5cm 	<b>FLAT STAIR</b> L:Max 220cm/H:14-22cm G:25-40cm/K:3,5-8cm 	<b>FLAT STAIR</b> L:Max 220cm/H:14-22cm G:25-40cm/K:3,5-8cm 	<b>ROTARY STAIR</b> L:Max 220cm/H:14-20cm GG:1-5m/Best En (Max 60cm) K:3,5-6,5cm 
<b>BLOCK STAIR</b> L:Max 220cm/H:10cm G:30-40cm/K:3,5-4,5cm 	<b>BLOCK LANDING LATH</b> L:Max 220cm/H:10cm G:30-40cm/K:3,5-4,5cm 	<b>L SKIRTING</b> L:Max 45cm/H:15-20cm G:12cm/H:16cm 	<b>L SKIRTING</b> L:Max 40cm/H:15-20cm G:12cm/H:16cm 	<b>ROTARY STAIR</b> L:Max 220cm/H:14-20cm GG:1-5m/Best En (Max 60cm) K:3,5-4,5cm 
<b>FLAT WINDOWSILL</b> L:Max 220cm/H:2,7-4cm G:11-40cm 	<b>L WINDOWSILL</b> L:Max 220cm/H:6-15cm G:11-40cm/K:3-4,5cm 	<b>L CAPSTONE</b> L:Max 220cm/H:6-15cm G:11-40cm/K:3-4,5cm 	<b>U CAPSTONE</b> L:Max 220cm/H:6-10cm G:15-40cm/K:3-4,5cm 	<b>U CAPSTONE</b> L:Max 220cm/H:10-20cm G:16-40cm/K:3,5-4,5cm 
<b>CORNER U CAPSTONE</b> L:1,2,3,4/1st edge 0-21/H:6-20cm G:16-100cm/K:3-4,5cm 	<b>CORNER MEMBER</b> L:100-200cm/H:15-30cm G:25-50cm/K:4cm 	<b>SPRING CAPSTONE</b> L:Max 200cm/H:3,4-4,5cm G:15-35cm 	<b>FLAT SKIRTING</b> L:30-60/H:6-10cm K:1,8-2cm 	<b>CHAMFERED SKIRTING</b> L:30-60/H:6-10cm K:1,8-2cm 
<b>WATER CONDUIT</b> L:100-200/H:18cm H:8cm/G:15cm 	<b>DOWNSPOUT</b> L:15cm/H:8,5cm G:28cm 	<b>KERB</b> L:15cm/H:18cm G:12cm 	<b>TREE FRAMEWORK</b> L:120/H:18cm G:15cm 	<b>CORK</b> 
<b>FLOWER BED</b> R:145cm/H:86cm 	<b>FLOWER BED</b> R:70cm/H:50cm 	<b>FLOWER BED</b> R:70cm/H:50cm 	<b>FLOWER BED</b> G:35860cm 	<b>BEARING FOOT</b> R:5,8cm/H:50cm H:33cm 
<b>STEP STONE RECTANGLE</b> K:6-8m/G:30-60cm L:100-200cm 	<b>STEP STONE CIRCULAR</b> H:6-8cm/K:50-80 	<b>SITTING GROUP</b> 	<b>ELEVATOR COATING</b> 	
<b>BANKS</b> 				



Crushed marble aggregates with 0-30 mm size are combined with 450 dose cement and manufactured by processing depending on the requested surface. Surfaces of terrazzo tiles used at interiors are polished and honed. They can be manufactured with hundreds of different colours via unfading oxide paints. There are 1200 different models in our current colour chart. They do not contain chemical substances, not harmful for health and hygienic. Stair tops, windowsill, capstone, plinth, etc. can be manufactured as a set with selected product model.

Note: Turkish pose numbers are between 26.015/001 and 26.015/005 in 2016 unit price tariffs.



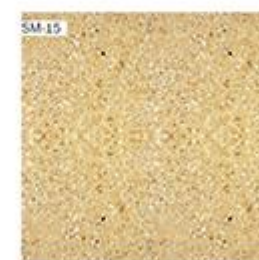
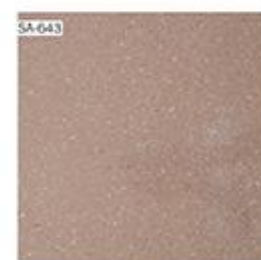
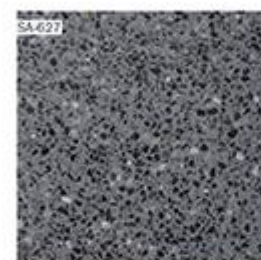
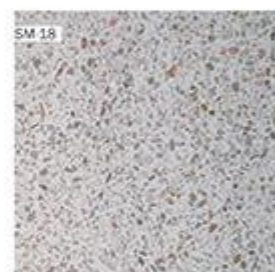
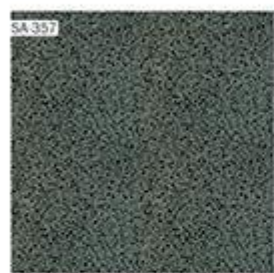
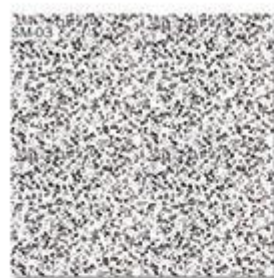
Mersin Forum Shopping Center

All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.						
Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coving L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark
✓	✓	✓	✓	✓	✓	✗



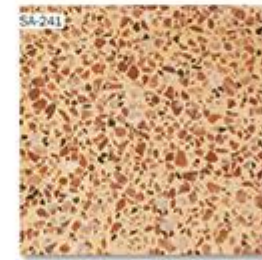
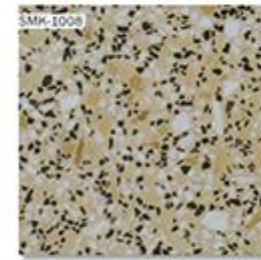
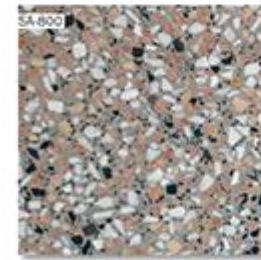
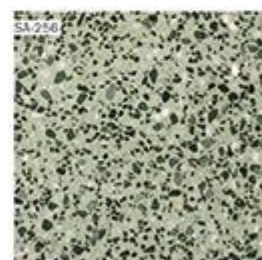
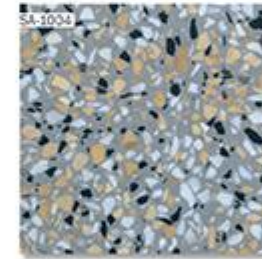
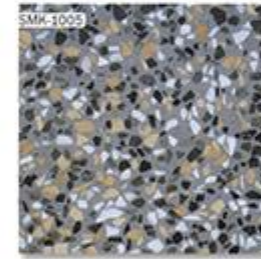
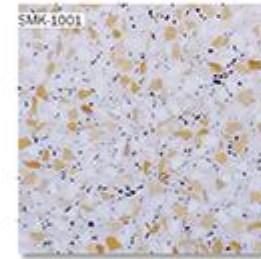
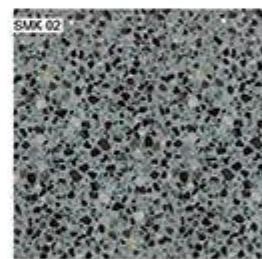
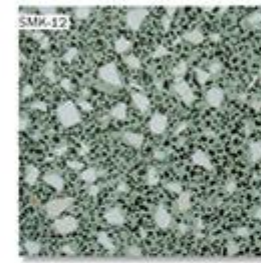
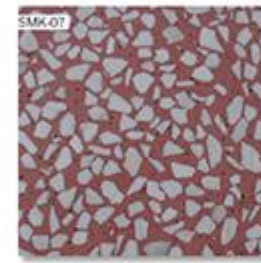
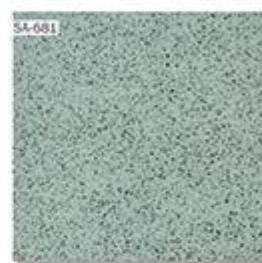
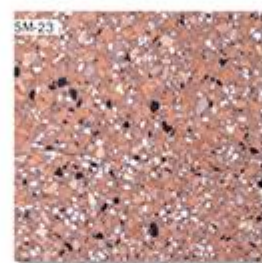
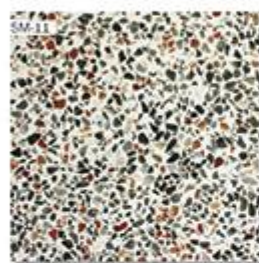
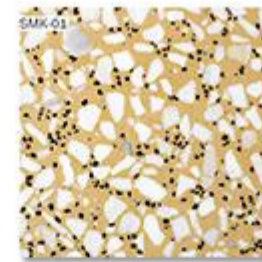
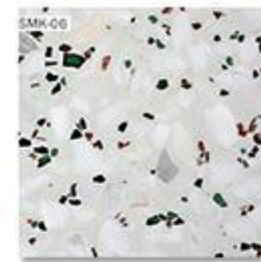
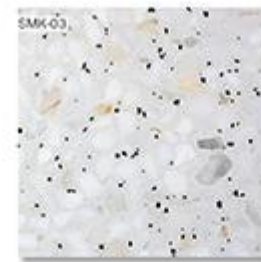
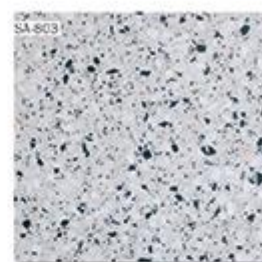
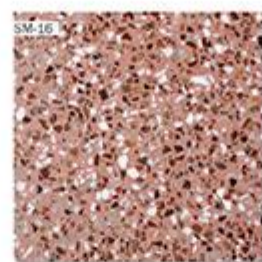
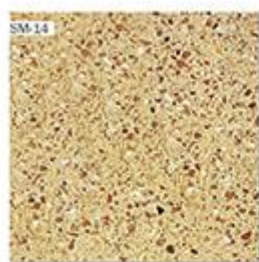
Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	15-20	30	30-35	Polished / Honed
420x420	18	15-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed





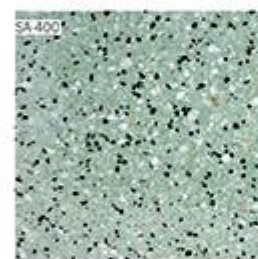
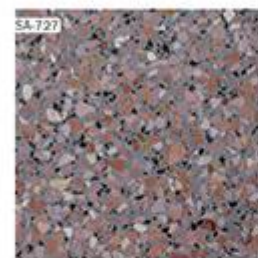
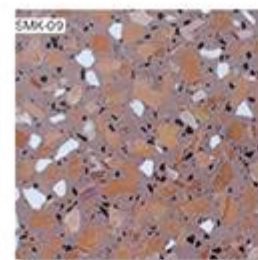
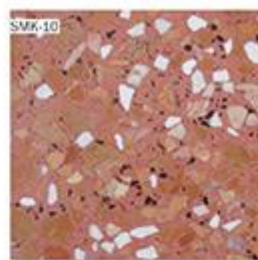
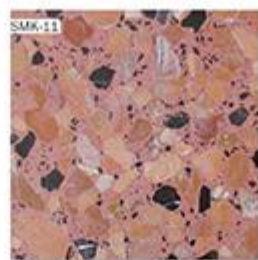
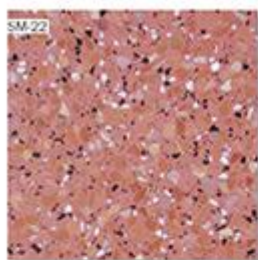
Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	19	18-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed





Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	16-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	19	19-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed





Mersin High School



Yozgat Yusuf Ziya Primary School



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	18	18-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed

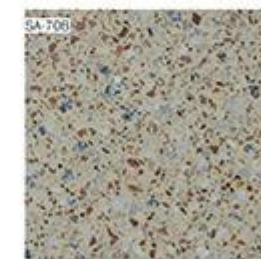
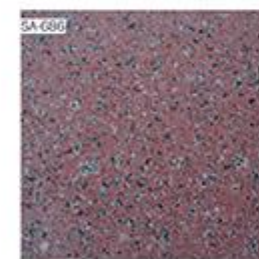
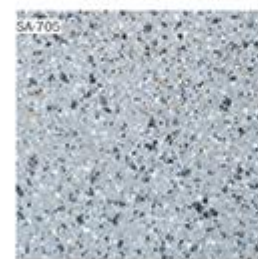
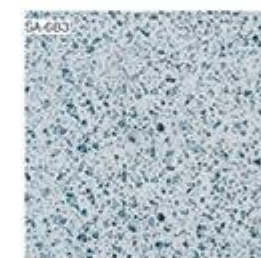
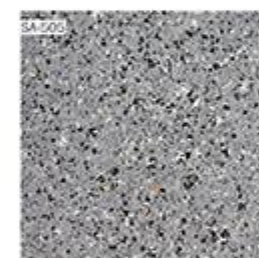
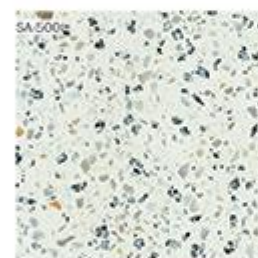


Crushed granite and marble aggregates with 0-30 mm size are combined with 450 dose cement and manufactured by processing depending on the requested surface. Surfaces of terrazzo tiles used at interiors are polished and honed. They can be manufactured with hundreds of different colours. They do not contain chemical substances, not harmful for health and hygienic. Hardness of granite marble is higher than normal marbles. Therefore, products made of granite mosaic have higher resistance. Stair steps, windowsill, capstone, plinth, etc. can be manufactured as a set with selected product model.

**Note:** Turkish pose numbers are between 26.015/011 and 26.015/015 in 2016 unit price tariffs.



Avustralya Sidney Shopping Center



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coating L Shaped	Environment Korb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Fecode
✓	✓	✓	✓	✓	✓	✗	✓



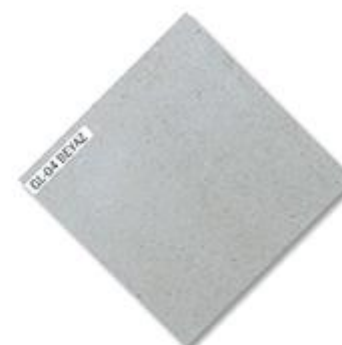
Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	10	14-20	30	30-35	Polished / Honed
300x300	10	16-20	30	30-35	Polished / Honed
400x400	10	16-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed



Quartz and silica aggregates are manufactured by being combined with high dose cement. Process is performed depending on the requested surface. Surfaces of terrazzo tiles used at interiors are honed and matte.

Hardness level of silica and quartz is 8. This hardness is within the group of stones those can be scratched by applying force with riffler.

**Note:** Turkish pose numbers are between 26.015/031 and 26.015/035 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coving L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Honed
300x300	16	16-20	30	30-35	Honed
400x400	19	18-30	33	30-40	Honed
300x600	27	22-32	35	30-40	Honed
500x500	27	22-32	35	30-40	Honed
400x600	27	22-32	35	30-40	Honed
600x600	27	22-32	35	30-40	Honed



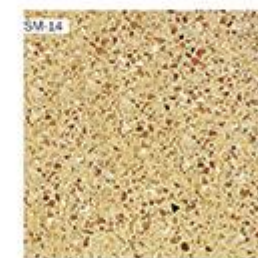
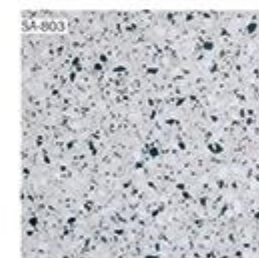
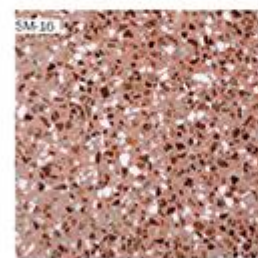
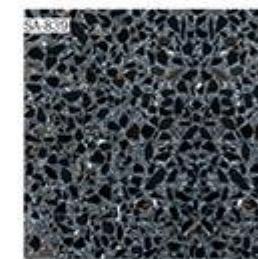
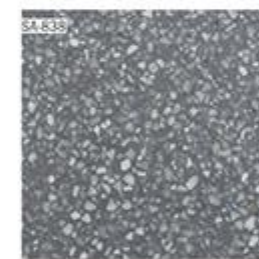
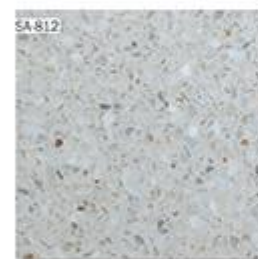
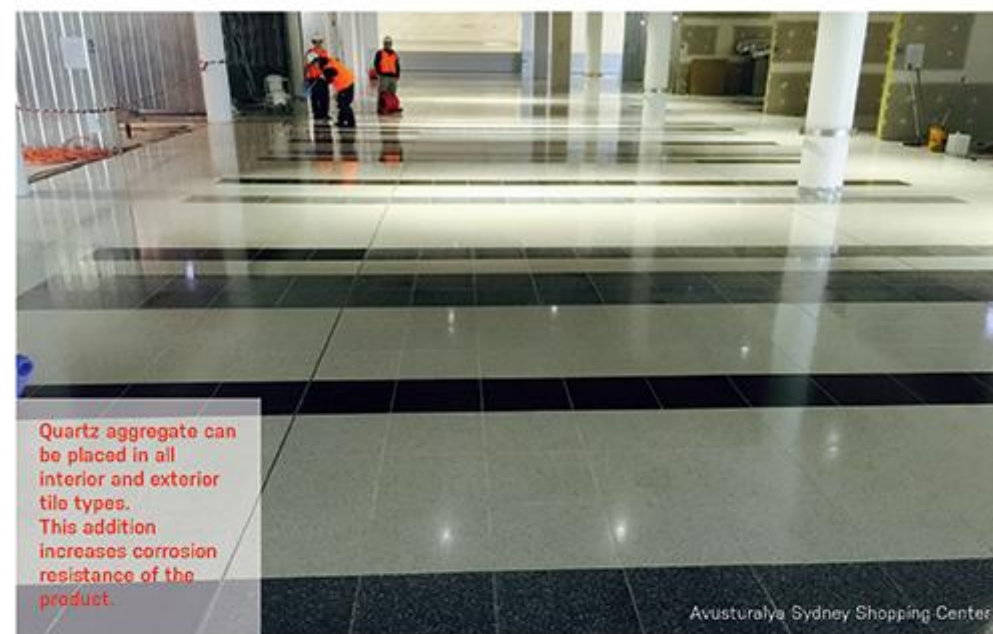
## TERRAZZO INTERIOR QUARTZ CONTAINING TILES

AS KARO

80% marble and granite aggregates are mixed with 20% Quartz aggregates and manufactured by combining with high dose cement.

Surfaces of terrazzo tiles used at interiors are polished, honed and matte. They have hundreds of different colour options. Hardness level of quartz is 8. Therefore, product corrosion resistance is higher than the standard.

**Note:** Turkish pose numbers are between 26.015/021 and 26.015/025 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓

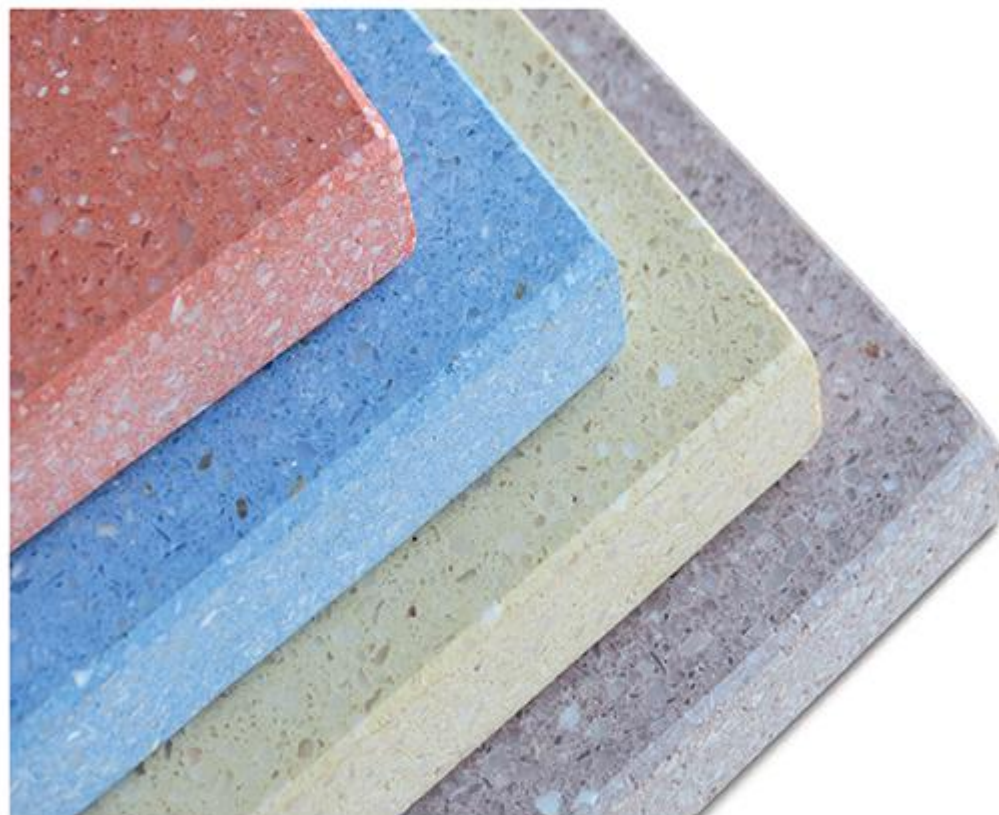


Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	18	18-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed



Colours and models those are not available in our serial production for usage at interior and exteriors can be developed in project specific colour and surfaces and manufactured with requested strength and durability.

- Highly resistant products with 29-33 mm thickness for raised coverings
- Colours to be selected from role catalogue
- Tiles providing heat insulation



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coving L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓

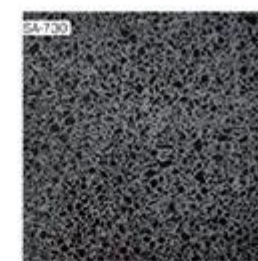
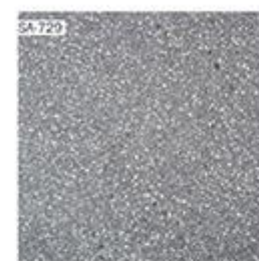
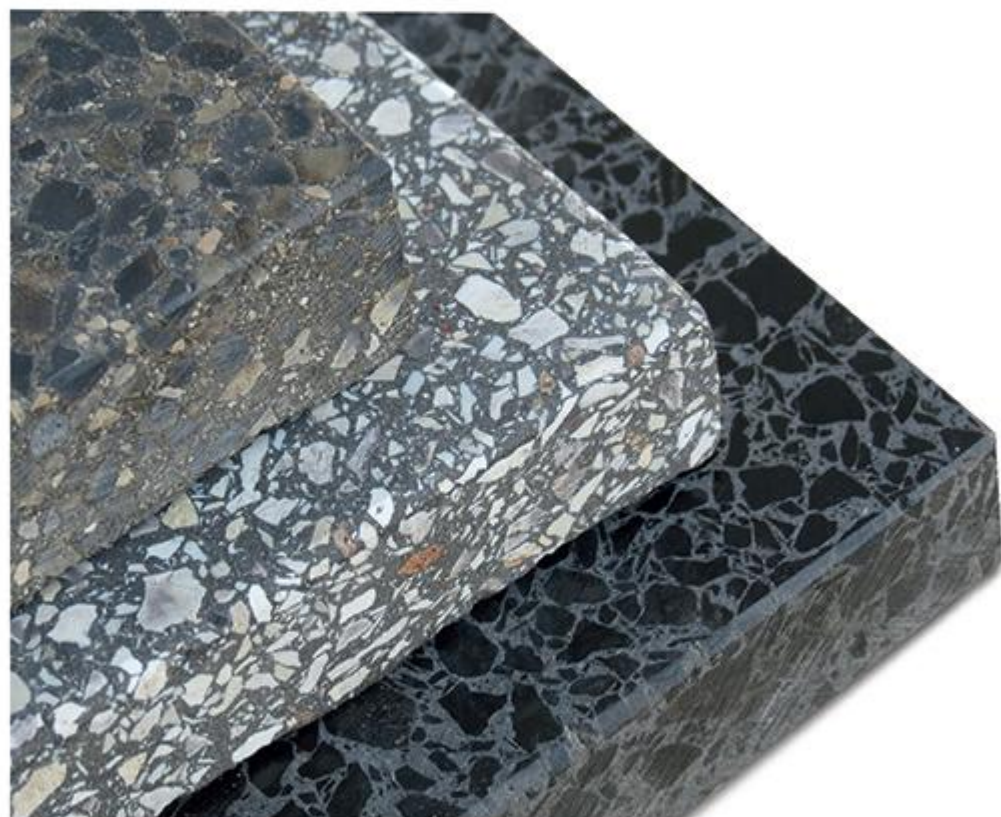


Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	18	18-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed



Specially processed aggregates are manufactured through combining with cement having high heat resistance for interiors and exteriors.

- Resists 1100 degree temperature.
- Aside " ph " level is durable from 4 to 13.
- It has alternatives with low and high corrosion resistance.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coting L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



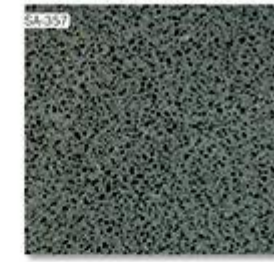
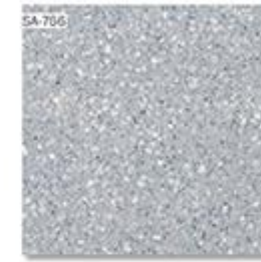
Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed
333x333	16	16-20	30	30-35	Polished / Honed
400x400	19	18-30	33	30-40	Polished / Honed
300x600	27	22-32	35	30-40	Polished / Honed
500x500	27	22-32	35	30-40	Polished / Honed
400x600	27	22-32	35	30-40	Polished / Honed
600x600	27	22-32	35	30-40	Polished / Honed



Cladding plates with total 6000 models and patterns in 5 different surface alternatives with 1200 different colours are manufactured by AS KARO depending on your request.

- Claddings are applied through mechanic anchorage system.
- Not requires paint, not fades and is homogeneous.

Floor coverings can be manufactured in same sizes with all façade models available in our catalogue.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)		Surface Options
	Single Layer		
	Standard	Other	
60x60	27	25-32	Polished / Honed / Sandblasted / Antique
50x50	27	25-32	Polished / Honed / Sandblasted / Antique
25,7x90	27	25-32	Polished / Honed / Sandblasted / Antique
40x60	27	25-32	Polished / Honed / Sandblasted / Antique



As the result of researches performed for being able to make facade TERRAZZO coverings in a healthy way, it was determined that the most healthy installation type is to install TERRAZZO tiles on the building via anchorage systems.

Most common anchorage system is the rail system and performing TERRAZZO coverings on buildings according to this system provides considerable advantages.

We can list advantages of rail system that is completely made as steel construction against bonding as below.

Bonded natural stones and terrazzo tiles fall in time. Such a problem is not experienced in installations performed with this anchorage system.

An area is not created for insulation in bonding system; however this area is created for insulation in anchorage system.

A certain order of natural stones and terrazzo tiles can be maintained as equal to evenness of concrete in bonding system, but order can be maintained with easy setting in anchorage systems.

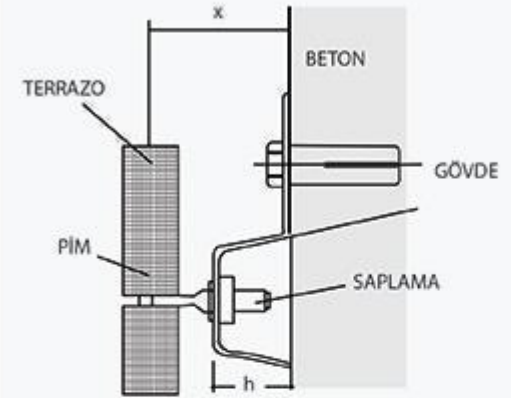


### TECHNICAL DATA

It can be safely used for installation of stones up to 80 kg in all sizes and min. 20 mm thickness. It can be fixed in concrete via M8 steel dowel or to hanger profiles via M8 bolt set. Distance between fixed surface and stone axis may vary between (x) 4 cm and 16 cm. The trunk, stud bolt and pin comprising the system are made of AISI 304 grade stainless steel. 4 mm pin is recommended for stones with 2 cm thickness and 5 mm pin is recommended for higher thicknesses.



Teknik Çizim

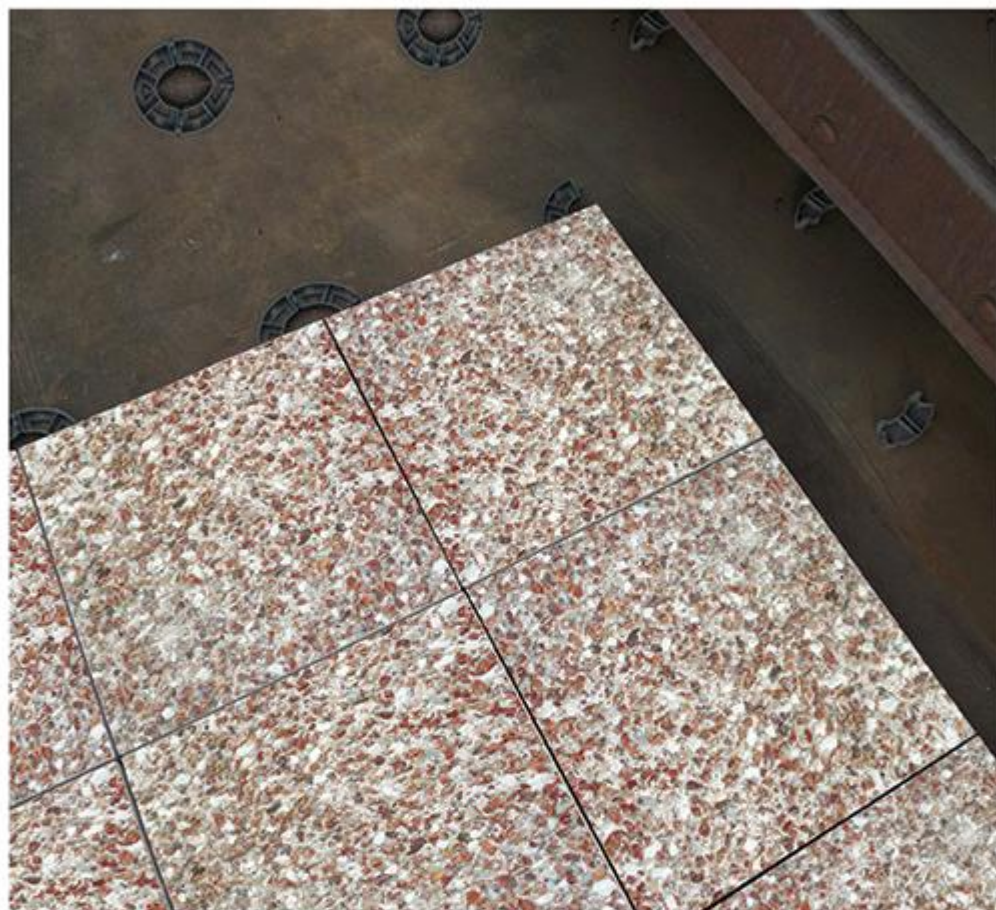


### USED MATERIALES





All products preferred in AS KARO are suitable for raised tiling with 60x60, 30x60, 50x50 and 40x40 sizes, polished, honed, sandblasted, aged and washconcrete surface options.

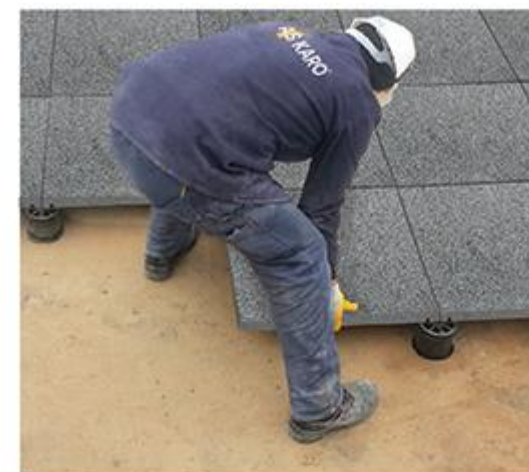


## APPLICATION

- Application starts from any corner in the space.
- It is placed with 60x60 50x50 30x60 and 40x40 sizes depending on stability of tiling material.

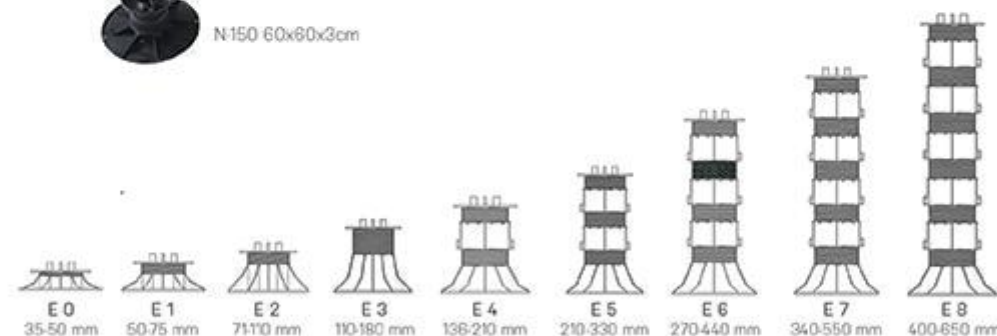
## TECHNICAL FEATURES

- High chemical durability
- Resistivity (electrical, heat and sound)
- Flexibility and shock resistance
- Resistance Against Atmospheric Conditions
- Water Repellent
- Resistance UV
- High load strength



## USAGE AMOUNTS CONSUMPTION

Tiling cassette sizes	m2 / Piece
40 x 40 cm	7,8
50 x 50 cm	5
40 x 60 cm	5
60 x 60 cm	3,8

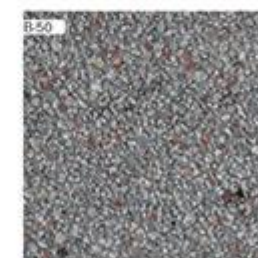
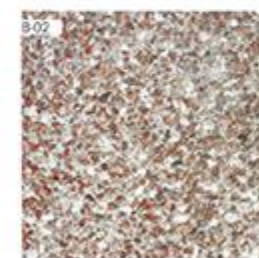
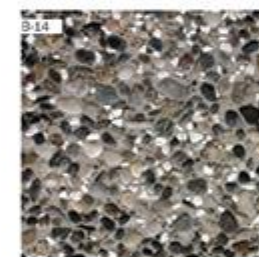
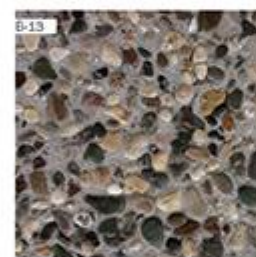
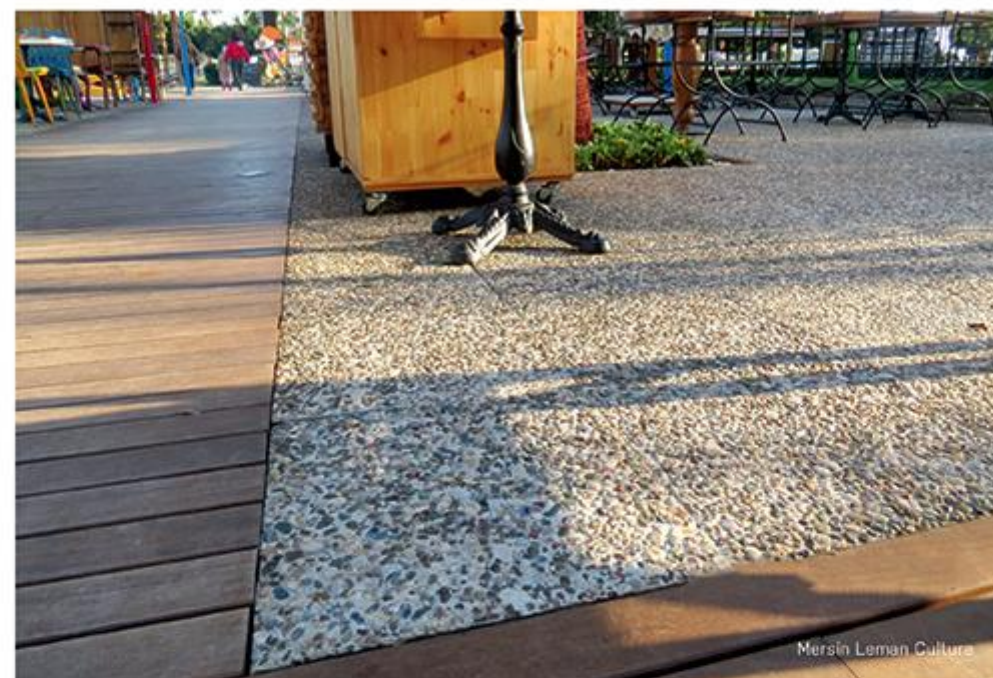




Marble, granite, quartz, basalt, andesite, etc. all marble aggregates are combined with cement for usage at exteriors and manufactured in two layers. Stair steps, windowsill, capstone, flower bed, bank, table, dust bin and many auxiliary products can be manufactured as a set with the selected product model.

Fading problem is not in question since natural stones are original for colouring the product. Frost resistance is available. Highly resistant against corrosion. It can be manufactured with more than 100 colours.

**Note:** Turkish Pose numbers are between 26.015/111 and 26.015/116 in 2016 unit price



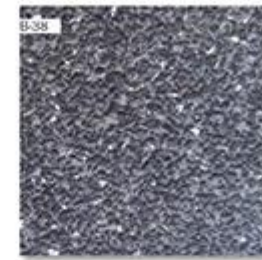
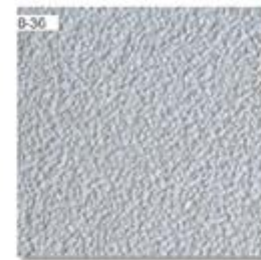
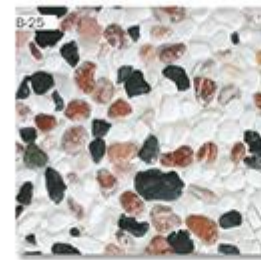
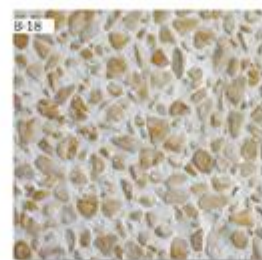
All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coting L Shaped	Environment Arrangement Kerb Water Spout Step Stone	Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✓	✓

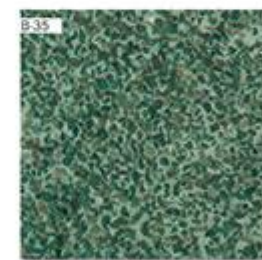
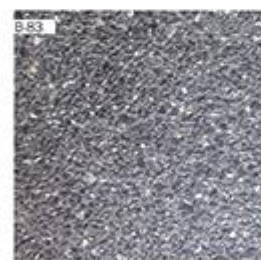
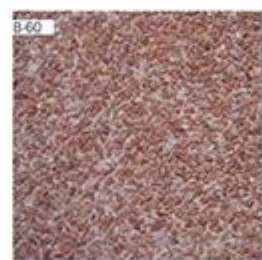


Size Options (mm)	Thickness Options (mm)		Surface Options
	Standard	Double Layer	
300x300	30	30-35	Washconcrete
300x300	30	30-35	Washconcrete
400x400	30	30-40	Washconcrete
300x600	35	35-40	Washconcrete
600x600	35	35-40	Washconcrete
400x800	35	35-40	Washconcrete
600x900	35	35-40	Washconcrete





Mersin Atatürk Park



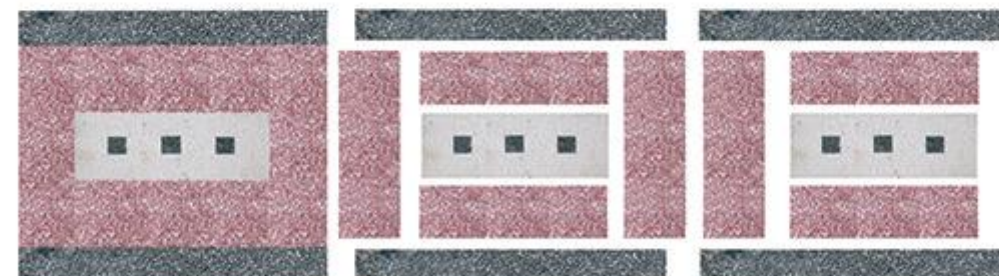
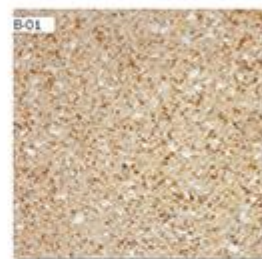
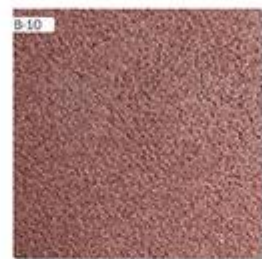
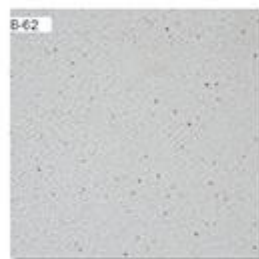
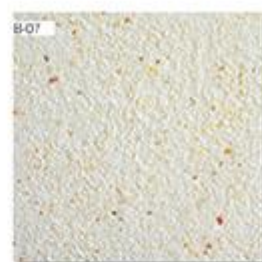
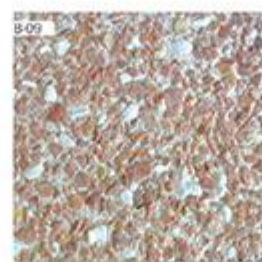
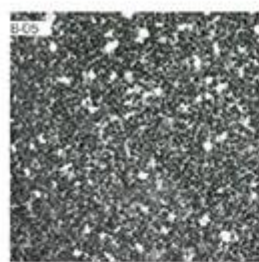
All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Arrangement Kerb Water Spout Step Stone	Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✓	✓



Size Options (mm)	Thickness Options (mm)		Surface Options
	Standard	Double Layer	
300x300	30	30-35	Washconcrete
300x333	30	30-35	Washconcrete
400x400	33	33-40	Washconcrete
300x600	35	35-40	Washconcrete
500x500	35	35-40	Washconcrete
400x600	35	35-40	Washconcrete
600x600	35	35-40	Washconcrete





All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✓	✓



### BE DIFFERENT!

If you want your park, garden, project to be unique, let AS KARO to manufacture Covering Plates for you in all sizes you want. Various geometrical shapes, letters, etc. can be applied on covering plates.

### AS KARO IS THE SOLE MANUFACTURER IN TURKEY

AS KARO can manufacture wash concrete plate and aged plates up to 30 cm width and 2 mt length sizes, with reinforcement and in all colours and patterns. AS KARO is the sole company performing this manufacturing in Turkey.





Mersin Atatürk Parki

All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Star	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coating L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✓	✓



B-26 L STEP



B-26 U CAPSTONE



B-26 L CAPSTONE



B-26 FLAT LATH



B-26 FLAT KERB 1



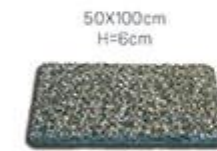
B-26 FLAT KERB 2



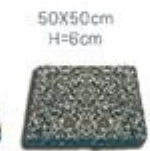
B-26 LANDMARK



B-26 WATER SPOUT



50X100cm  
H=6cm



50X50cm  
H=6cm



R=50cm  
H=6cm

B-26 STEP STONES



B-26 BANK



B-26 FLOWER BED



B-26 BEARING FOOT



0-15 mm sized marble aggregates are manufactured by being combined with cement. They can be manufactured in all colours.

Corrosion resistance is very high. They are coloured by using unfading oxide paints with colours suitable for the requested product colour.

They are very durable against shocks and corrosion proof. Most preferred colours are red, yellow, grey, white and brown.

**Note:** Turkish pose numbers are between 26.015/051 and 26.015/056 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✗	✗	✗	✗	✗	✗	✗

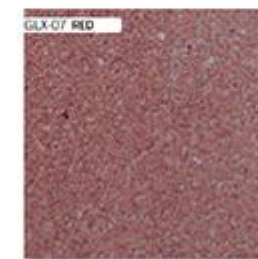
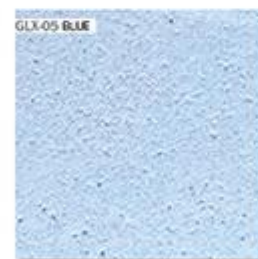
Thickness Options (mm)
Double Layer
30
30
33
35
Size Options (mm)
300x300
333x333
400x400
600x600



Quartz aggregates are combined with high dose cement and manufactured as 2 layers for exterior use.

Surface processes those may be performed for exterior use are matte and sandblasting. Hardness level of quartz is 8. This hardness is within the group of stones those can be scratched by applying force with riffler.

**Note:** Turkish pose numbers are between 26.015/101 and 26.015/106 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coting L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



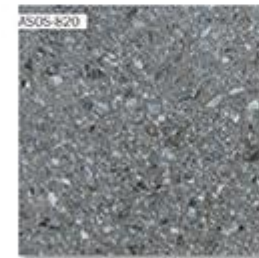
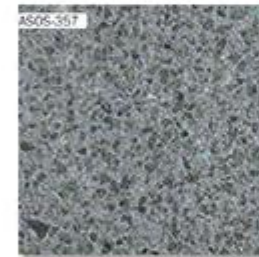
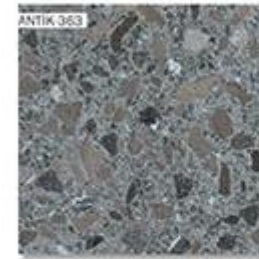
Size Options (mm)	Thickness Options (mm)		Surface Options
	Standard	Double Layer	
300x300	30	30-35	Honed / Brushed / sandblasted / antique / washconcrete
300x300	30	30-35	Honed / Brushed / sandblasted / antique / washconcrete
400x400	33	33-40	Honed / Brushed / sandblasted / antique / washconcrete
300x600	35	35-40	Honed / Brushed / sandblasted / antique / washconcrete
600x600	35	35-40	Honed / Brushed / sandblasted / antique / washconcrete
400x600	35	35-40	Honed / Brushed / sandblasted / antique / washconcrete
600x600	35	35-40	Honed / Brushed / sandblasted / antique / washconcrete



Marble aggregates are manufactured by combining with 450 dose cement for exterior use. Final surface process is performed depending on the requested surface. Surface processes those may be performed for exterior use are brushed, sandblasted and antique. They can be manufactured with hundreds of different colours.

There are 1200 different models in our current colour chart. Stair steps, windowsill, capstone, plinth can be manufactured as a set with the selected product model. They do not contain chemical substances, not harmful for health and hygienic.

**Note:** Turkish pose numbers are between 26.015/061 and 26.015/066 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed	Facade
✓	✓	✓	✓	✓	✓	✗	✓

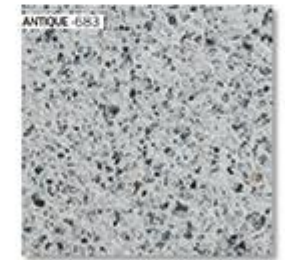
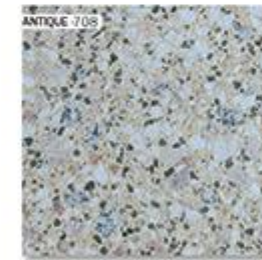
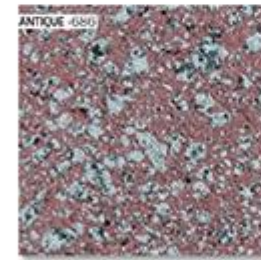
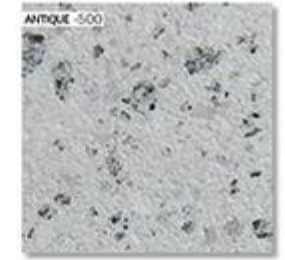


Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Brushed / Sandblasted / Antique
333x333	16	16-20	30	30-35	Brushed / Sandblasted / Antique
400x400	19	18-30	33	30-40	Brushed / Sandblasted / Antique
300x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique
500x500	27	22-32	35	30-40	Brushed / Sandblasted / Antique
400x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique
600x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique



Manufactured with granite and marble aggregates by combining with 450 dose cement.  
Final surface process is performed depending on the requested surface.  
Surface processes those may be performed for exterior use are brushed, sandblasted and antique.  
Hardness of granite marble is higher than normal marbles.  
Therefore, products made of granite mosaic have higher resistance.  
Stair steps, windowsill, capstone, plinth, etc. can be manufactured as a set with selected product model.

**Note:** Turkish pose numbers are between 26.015/071 and 26.015/076 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coting L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Brushed / Sandblasted / Antique
333x333	16	16-20	30	30-35	Brushed / Sandblasted / Antique
400x400	19	18-30	33	30-40	Brushed / Sandblasted / Antique
300x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique
500x500	27	22-32	35	30-40	Brushed / Sandblasted / Antique
400x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique
600x600	27	22-32	35	30-40	Brushed / Sandblasted / Antique

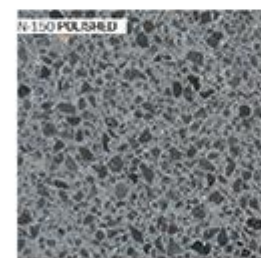
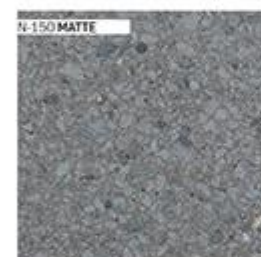


Manufactured with basalt aggregates by combining with 450 dose cement. Surface processes those can be performed for exterior use are polishing, honing, sand blasting, bushing and washconcrete. Hardness of basalt marble is higher than normal marbles. Therefore, products made of basalt mosaic have higher resistance.

Stair steps, windowsill, capstone, plinth, etc. can be manufactured as a set with the selected product model. Also, polished production can be performed for interiors.

- Terrazzo basalts have a more stable strength than natural cut basalts.
- Weak veins naturally available in natural basalt marble are not available in terrazzo basalts. Therefore, surface deformations do not occur during the product use.

Note: Turkish pose numbers are between 26.015/091 and 26.015/096 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.							
Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Black Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Coting L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	16-20	30	30-35	Polished / Brushed / Sandblasted / Honed / Washconcrete
333x333	16	16-20	30	30-35	Polished / Brushed / Sandblasted / Honed / Washconcrete
400x400	19	19-30	33	30-40	Polished / Brushed / Sandblasted / Honed / Washconcrete
300x600	27	22-32	35	30-40	Polished / Brushed / Sandblasted / Honed / Washconcrete
500x500	27	22-32	35	30-40	Polished / Brushed / Sandblasted / Honed / Washconcrete
400x600	27	22-32	35	30-40	Polished / Brushed / Sandblasted / Honed / Washconcrete
600x600	27	22-32	35	30-40	Polished / Brushed / Sandblasted / Honed / Washconcrete



Manufactured with andesite aggregates by combining with 450 dose cement. Surface processes those can be performed for exterior use are polishing, honing, sand blasting, bushing and washconcrete.

Andesite marble contains silica. Its hardness is higher than normal marbles. Therefore, products made of andesite mosaic have higher resistance.

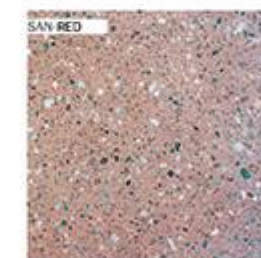
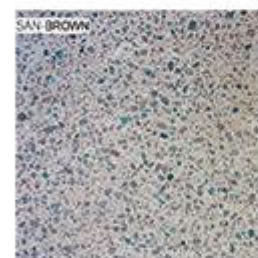
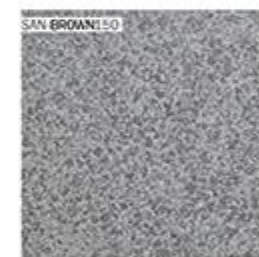
• Stair steps, windowsill, capstone, plinth, etc. can be manufactured as a set with selected product model. Also, polished production can be performed for interiors.

• Terrazzo andesites have a more stable strength than natural cut andesites.

• Weak veins naturally available in natural andesite marble are not available in terrazzo.

Therefore, surface deformations do not occur during the product use.

Note: Turkish pose numbers are between 26.015/081 and 26.015/086 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.							
Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Black Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Casing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
333x333	16	16-20	30	30-35	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
400x400	16	16-30	33	30-40	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
300x600	27	22-32	35	30-40	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
500x500	27	22-32	35	30-40	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
400x600	27	22-32	35	30-40	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete
600x600	27	22-32	35	30-40	Polished / Honed / Brushed / Sandblasted / Antique / Washconcrete



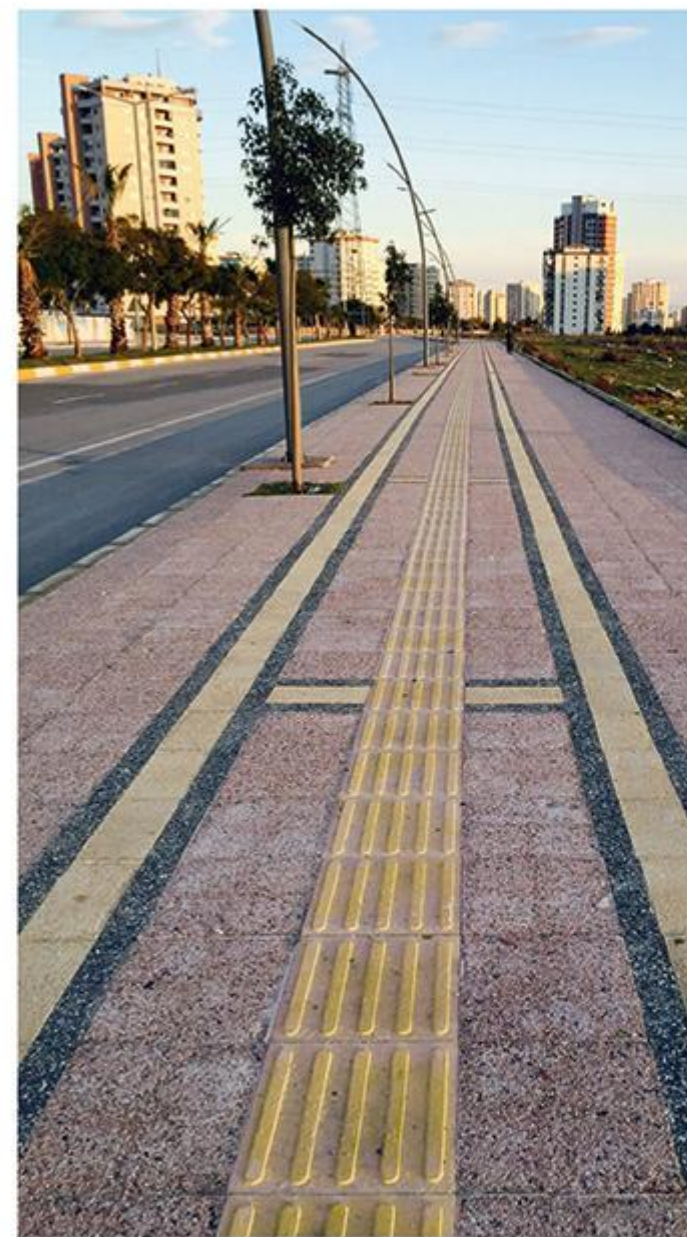
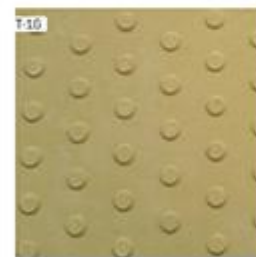
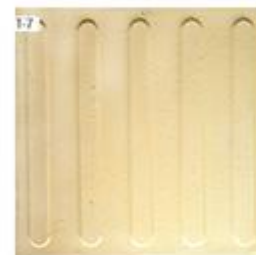
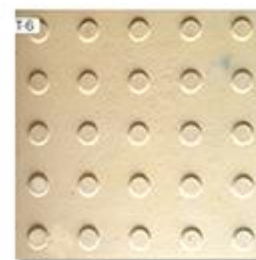
0-15 mm sized marble aggregates are manufactured by being combined with cement. They can be manufactured in all colours.

Corrosion resistance is very high. They are coloured by using unfading oxide paints with colours suitable for the requested product colour.

► They are very durable against shocks and corrosion proof.

► Preferred colour is yellow.

► Dots and lines on them vary depending on life spaces. Please contact with AS KARO for getting information regarding products to be used in all areas.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✗	✗	✗	✗	✗	✗	✗



Size Options (mm)	Thickness Options (mm)
	Double Layer
300x300	30-35
400x400	33-40



## BRUSHED

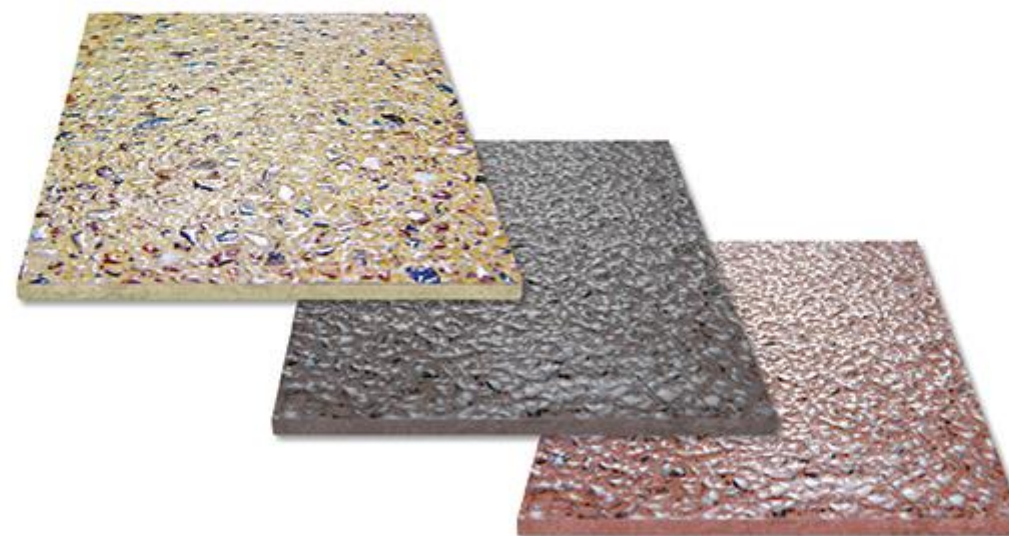
AS KARO®

### BRUSHED TILES

Brushing can be performed in all Terrazzo tiles. Edges are uniform. Surface is skid proof and brushed. It can be used in park and garden arrangements and terraces.

### SPECIAL FOR YOUR PROJECT

It can be applied by making various tilings in 10x10, 10x20, 30x60 etc. sizes as seen in the image.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.

Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Cooing L Shaped	Environment Kerb Water Spout Step Stone	Arrangement Flower Bed Banks Landmark	Facade
✓	✓	✓	✓	✓	✓	✗	✓



Size Options (mm)	Thickness Options (mm)				Surface Options
	Single Layer		Double Layer		
	Standard	Other	Standard	Other	
300x300	16	14-20	30	30-35	Brushed
333x333	16	16-20	30	30-35	Brushed
400x400	19	18-30	33	30-40	Brushed
300x600	27	22-32	35	30-40	Brushed
500x500	27	22-32	35	30-40	Brushed
400x600	27	22-32	35	30-40	Brushed
600x600	27	22-32	35	30-40	Brushed



Factory prepared marble, granite, andesite, basalt and quartz-silica aggregated stair steps are combined with at least 450 dose portland cement with crushed marble aggregates at 100% rate in 0-25 mm sizes and manufactured as single layer in ribbed (min 5 mm) iron equipped special moulds. It is manufactured with minimum 4 cm thickness. Compressed through vibration. All apparent surfaces are polished or requested surface process is applied. In order to maintain equal wall thickness of non-apparent surfaces, it is manufactured as cut and trimmed. Sizes are taken separately from all construction sites for every step in rotary, fan shaped L type stairs. Suitable special moulds are made for each size taken and manufactured with the above mentioned method.

- L stairs
- Flat stairs
- L Flat stairs
- Laths

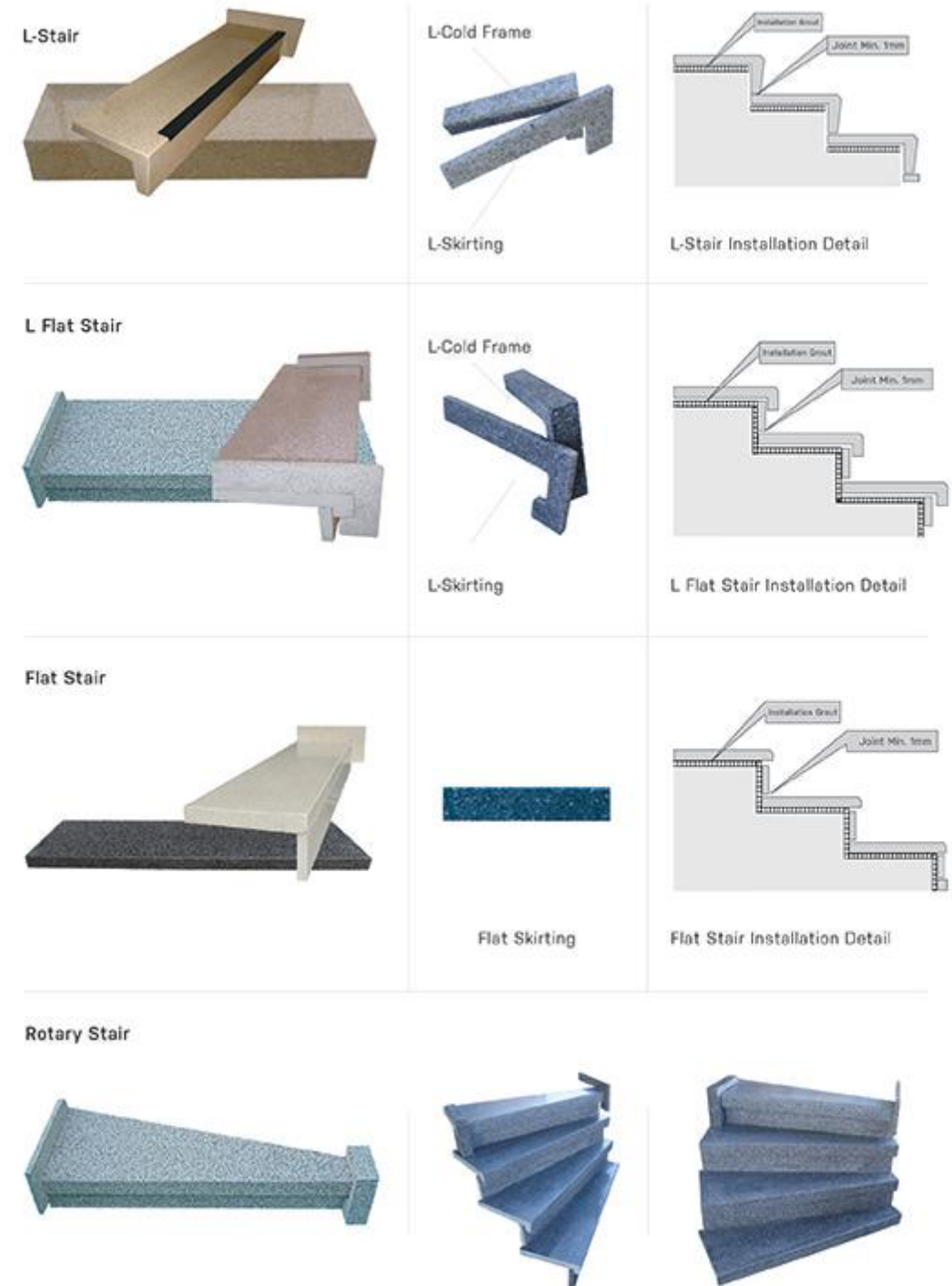
**Notes:**

Terrazzo stair steps are flat shaped in 2016 unit price tariffs and pose numbers are between 26,015/201 and 26,015/205).

Terrazzo stair steps are L-miter shaped in 2016 unit price tariffs and pose numbers are between 26,015/221 and 26,015/225).



Ankara Forum Shopping Center





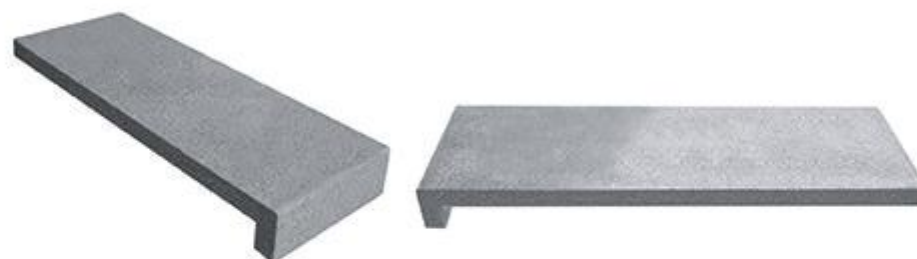
## PRECAST STAIR STEPS

ASKARO

Front and side view of block stairs are 10 cm thick regarding shape. However, net thickness is 4,5 cm. It can be manufactured with all kinds of surface processes by connecting with iron equipped 450 dose cement.



BLOCK STAIR



LANDING LATH



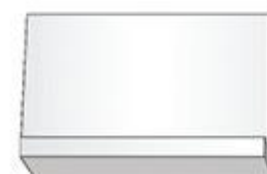
2 short 1 long Side Enclosed Block Step



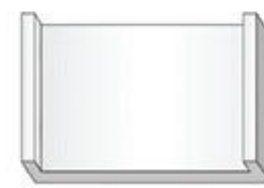
1 short 1 long Side Enclosed Block Step



1 Short Side Enclosed Landing Lath



1 Long Side Enclosed Landing Lath



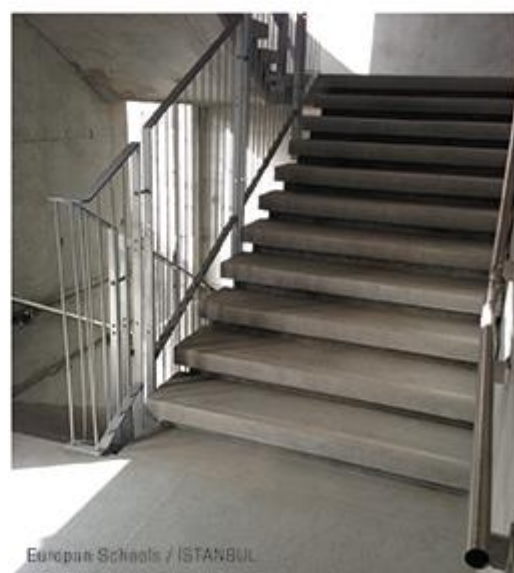
2 Short Side Enclosed Landing Lath



Flat Lath

### Surface Options

Brushed / Polished / Sandblasted / Honed



European Schools / ISTANBUL





#### TILE PLINTH - SKIRTING

Artificial Stone Plinths are manufactured in 3 types with 6-12 cm height, 16-19 mm thickness (Flat Cut, Chamfered and flat cut over polished).

Note: Turkish pose number is 26.015/150 in 2016 unit price tariffs.

#### L PLINTH - SKIRTING

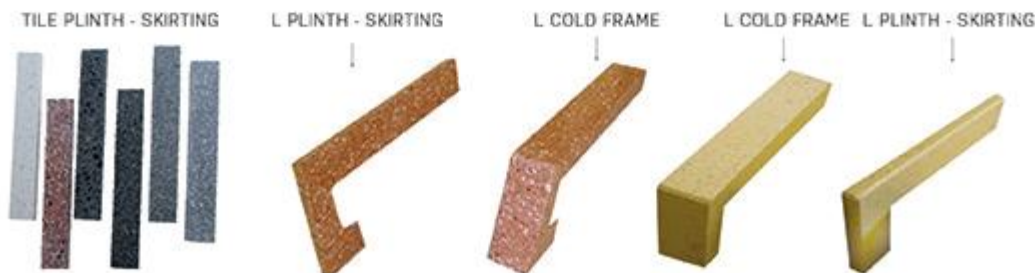
It is manufactured with L shape at height suitable for terrazzo tile plinth in the existing space (miter), and with fibre grain additives in same angle, same colour with lateral and vertical angles of existing applied stair. Apparent surfaces are manufactured in the factory as glazed.

Note: Turkish pose number is 26.015/241 in 2016 unit price tariffs.

#### L SHAPED STAIR COLD FRAME

It is manufactured with L shape with minimum 4 cm thickness (miter), and with fibre grain additives in same angle, same colour with lateral and vertical angles of existing applied stair. Apparent surfaces are manufactured in the factory as glazed and polished.

Note: Turkish pose number is 26.015/245 in 2016 unit price tariffs.



It is applied with average 4 cm thickness into 3-4 cm interior of joint point of step part of stair with the face. In addition to standard manufacturing, steps are additionally processed. Provides anti-skidding.

CORNER CORD



DOUBLE PVC BELT



SINGLE PVC BELT



RIVETED BELT



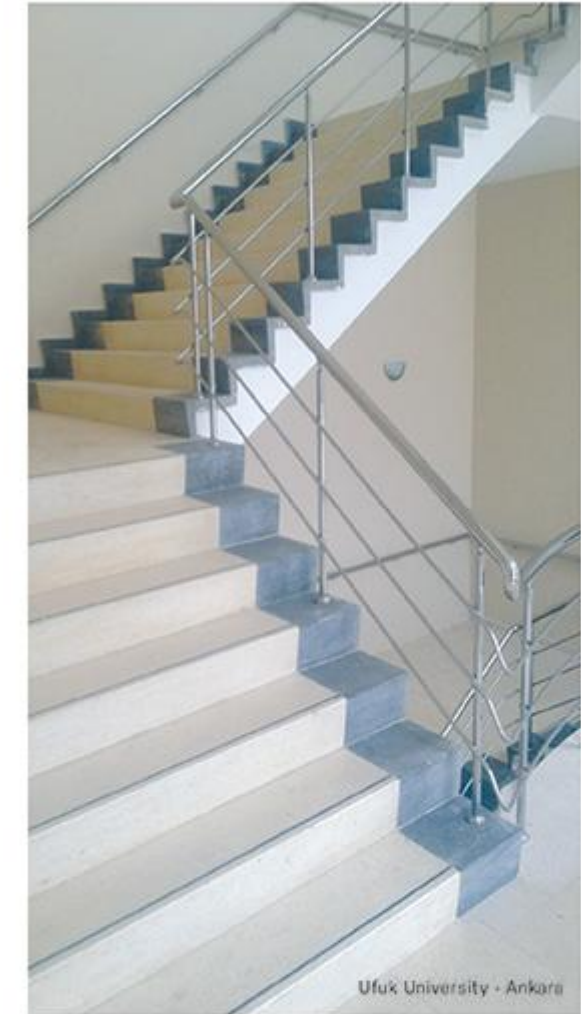
SCANNING BELT



SANDBLASTING BELT

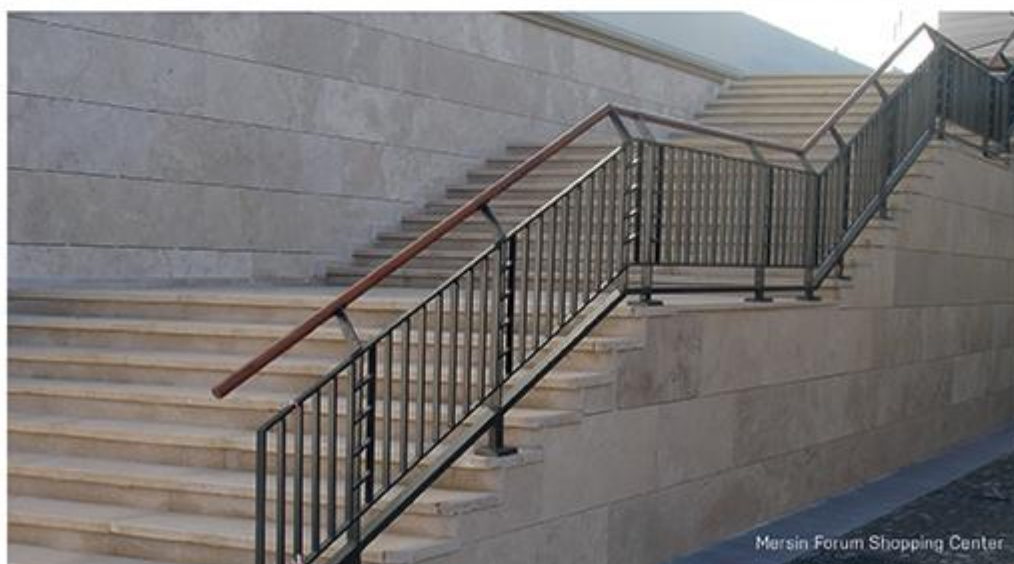
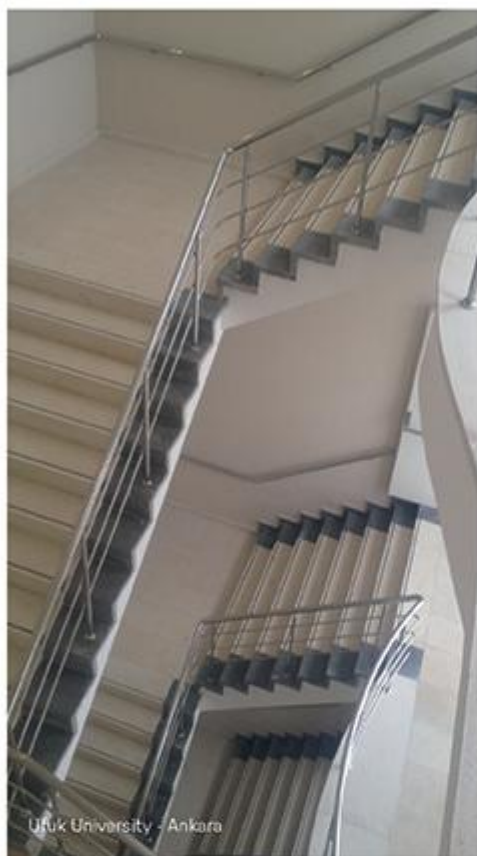


SLING BELT



Ufuk University - Ankara







Precast; parapet capstone, windowsills, corner edge tilings are connected with 450 dose portland cement with 0-25 mm sized crushed marble, granite, basalt, andesite, quartz aggregates, manufactured as single layer in ribbed (min. 5 mm) iron equipped, special moulds.

Compressed through vibration. Apparent surfaces are glazed or processed according to requested surface. In order to maintain equal wall thickness of non-apparent surfaces, it is manufactured as cut and trimmed. Drip moulding can be opened for exterior uses. It is manufactured in same colour and pattern with the existing tiling and stair colour.

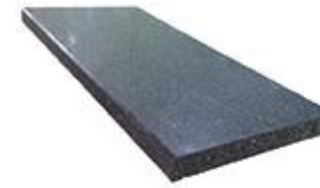
**Note:** Turkish pose number of flat capstones is between 26.015/251-254 in 2016 unit price tariffs.

**Note:** Turkish pose number of L Shaped capstones is between 26.015/261-264 in 2016 unit price tariffs.

**Note:** Turkish pose number of U Shaped capstones is between 26.015/271-274 in 2016 unit price tariffs.



All our products given in this catalogue can be manufactured in sets as given in this table regarding colour and pattern.						
Terrazzo Tile	Stair Step L Shaped Flat (Tread + Riser) L Flat Stair Block Stair	Windowsill Flat L Shape	Capstone Flat L Shaped U Shaped	Corner Casing L Shaped	Environment Arrangement Kerb Water Spout Step Stone	Flower Bed Banks Landmark
✓	✓	✓	✓	✓	✓	✗
<div> </div> <div>Surface Options: Polished / Sandblasting / Brushed / Washconcrete</div>						



FLAT CAPSTONE



L CAPSTONE



U CAPSTONE



CORNER CAPSTONE



FLAT WINDOWSILL



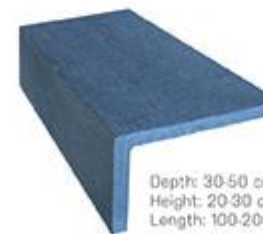
L WINDOWSILL



U CAPSTONE



U CAPSTONE



CORNER MEMBER  
EDGE, CORNER TILINGS



GUTTER ELEMENT







WB-01



WB-02



AS KARO

Bearing foot of banks are wash concrete and seating parts are impregnated wood. Foot colours can be manufactured from all colours of wash concrete tile.



WB-04



Haydar Aliyev High School



WB-05



WB-06

Upper Diameter: 16 cm  
Lower Diameter: 48 cm



Gaziantep Landscape



Ready concrete flower bed are manufactured with wash concrete surface in colours suitable for the ground. Apparent surfaces shall be wash concrete surfaces from the factory. Iron equipped.



Diameter:70cm  
Height:50cm  
**Hexagon Flower Bed**



Diameter:88cm  
Height:60cm  
**Cylinder Flower Bed**



Diameter:70cm  
Height:50cm  
**Circular Flower Bed**



Short Edge:60cm  
Long Edge:100cm  
Height:57cm  
**Rectangle Flower Bed**



Diameter:145cm  
Height:66cm  
**Eclipse Flower Bed**



Short Edge:35cm  
Long Edge:100cm  
Height:57cm  
**Rectangle Flower Bed**



Short Edge:60cm  
Long Edge:100cm  
Height:57cm  
**Wave Flower Bed**



Short Edge:60cm  
Long Edge:100cm  
Height:57cm  
**Half Wave Flower Bed**



Short Edge:58cm  
Long Edge:50cm  
Height:33cm  
**Bearing Foot**

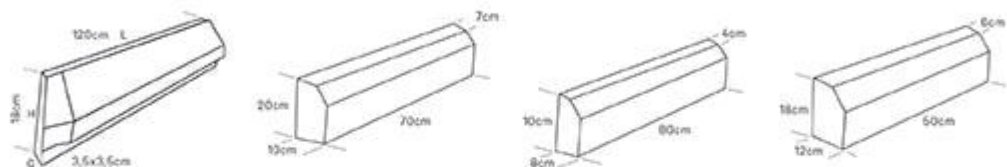




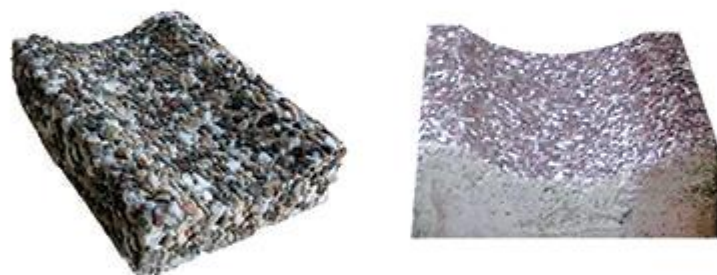
# WASH CONCRETE KERB



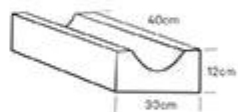
## DIMENSIONS



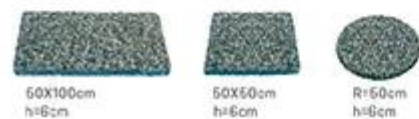
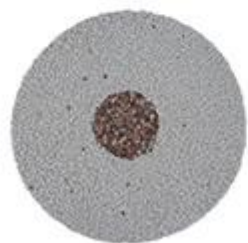
# RAIN GUTTERS



## DIMENSIONS



# WASH CONCRETE STEP STONES



# LANDMARK





## PACKING AND SHIPMENT

Tables containing pallet, shipment and packing data regarding Terrazzo tiles in standard sizes of AS KARO are given below.

WEIGHT		PALLET DATA		CONTAINER	
Terrazzo Tile Sizes	1 m <sup>2</sup> Weight (kg)	Pallet Sizes (cm)	How much m <sup>2</sup> Loaded in 1 Pallet (m <sup>2</sup> )	How much m <sup>2</sup> can be loaded based on 20 DC Container 24 Ton (590x236 cm)	Materials Used in Packages
40x40x1,8	47kg	120x80cm	34,56 m <sup>2</sup>	500 m <sup>2</sup>	Pallet Styroopor Circle Bracket
33x33x1,6	40kg	100x67cm	33,33 m <sup>2</sup>	600 m <sup>2</sup>	
30x30x1,6	40kg	90x60cm	36,21 m <sup>2</sup>	600 m <sup>2</sup>	
40x40x1,8	47kg	120x80cm	34,56 m <sup>2</sup>	500 m <sup>2</sup>	
33x33x1,6	40kg	100x67cm	33,33 m <sup>2</sup>	600 m <sup>2</sup>	Pallet Styroopor Circle Bracket Stretch Box
30x30x1,6	40kg	90x60cm	36,21 m <sup>2</sup>	600 m <sup>2</sup>	
50x50x2,7	65kg	120x80cm	14,00 m <sup>2</sup>	360 m <sup>2</sup>	
30x60x2,7	65kg	120x80cm	20,21 m <sup>2</sup>	360 m <sup>2</sup>	
60x60x2,7	65kg	120x80cm	20,21 m <sup>2</sup>	360 m <sup>2</sup>	

## WEIGHTS OF PRODUCTS BASED ON THICKNESSES

Thickness	Load Capacity			
	1m <sup>2</sup> Weight	24 Ton	20 Ton	16 Ton
1,6cm	40kg	600 m <sup>2</sup>	500 m <sup>2</sup>	400 m <sup>2</sup>
1,8cm	45kg	530 m <sup>2</sup>	440 m <sup>2</sup>	350 m <sup>2</sup>
2,0cm	50kg	480 m <sup>2</sup>	400 m <sup>2</sup>	320 m <sup>2</sup>
2,2cm	55kg	430 m <sup>2</sup>	360 m <sup>2</sup>	290 m <sup>2</sup>
2,4cm	60kg	400 m <sup>2</sup>	330 m <sup>2</sup>	270 m <sup>2</sup>
2,5cm	62,5kg	380 m <sup>2</sup>	320 m <sup>2</sup>	250 m <sup>2</sup>
3,0cm	75kg	320 m <sup>2</sup>	270 m <sup>2</sup>	210 m <sup>2</sup>
3,2cm	80kg	300 m <sup>2</sup>	250 m <sup>2</sup>	200 m <sup>2</sup>
4,0cm	100kg	240 m <sup>2</sup>	200 m <sup>2</sup>	160 m <sup>2</sup>
4,2cm	105kg	230 m <sup>2</sup>	190 m <sup>2</sup>	150 m <sup>2</sup>



## PLINTH SIZE, THICKNESS AND WEIGHT DATA

Dimensions	Weight/Mtl
60x6x2,7	3,50 kg/mtl
50x6x2,7	3,50 kg/mtl
40x6x1,8	2,70 kg/mtl
33x6x1,6	2,76 kg/mtl
30x6x1,6	2,76 kg/mtl



Data given in above tables are approximate values. Load capacities are adjusted during shipment and increased or decreased depending on legal carrying capacity of articulated lorries and trucks.

## RECOMMENDATIONS REGARDING TRANSFER AND STOCKING

- Products are prepared for shipment in pallets. Lateral and vertical placed protective styroopor is available between pallets and products. It is tied with stripe circles for preventing dispersion during shipment. Our products are delivered on truck at factory.
- Protect corner edge sections and surface quality during application and shipment.
- Processed surfaces of products should adhere to each other for protecting surfaces.
- Tile pallets generally as single line. Pile maximum 2 lines in narrow areas.
- Always pile precast products such as stairs in single line.
- Vehicles must be unloaded via forklift, otherwise should be piled as face to face at vertical position.
- Most suitable vehicle is forklift for unloading products arriving the work site. Deformation is in question during unloading operations performed with crane or rescuer. Attention should be paid. Products should be piled in vertical position and wooden laths should be placed between vertical angles for performing manual unloading.
- Maximum attention should be given to edge and corner evenness during lateral and vertical shipments.
- During placement of pallets on ground, regardless of the used vehicle, ground must be flat and pallets should be placed on the ground slowly and parallel.

## RECOMMENDATIONS FOR USE AND CLEANING

- NEVER USE acid containing cleaning substances. SOFT SOAP can be used for cleaning.
- Products to be used for cleaning should not contain acid and acid derived chemicals. They should not contain salt and caustic (detergent derivatives). Otherwise, surface shall be deformed. All acidic products damage the cement component and deform its surface.
- In case of contamination, immediately clean with liquid detergent not containing acid and flush with plenty of water.
- Sawdust must not used for protecting the glaze.
- In case of contamination, immediately clean with cleaning liquid suitable for the dirt type that is not detergent derivative and having bio-degradation feature and flush with plenty of water.

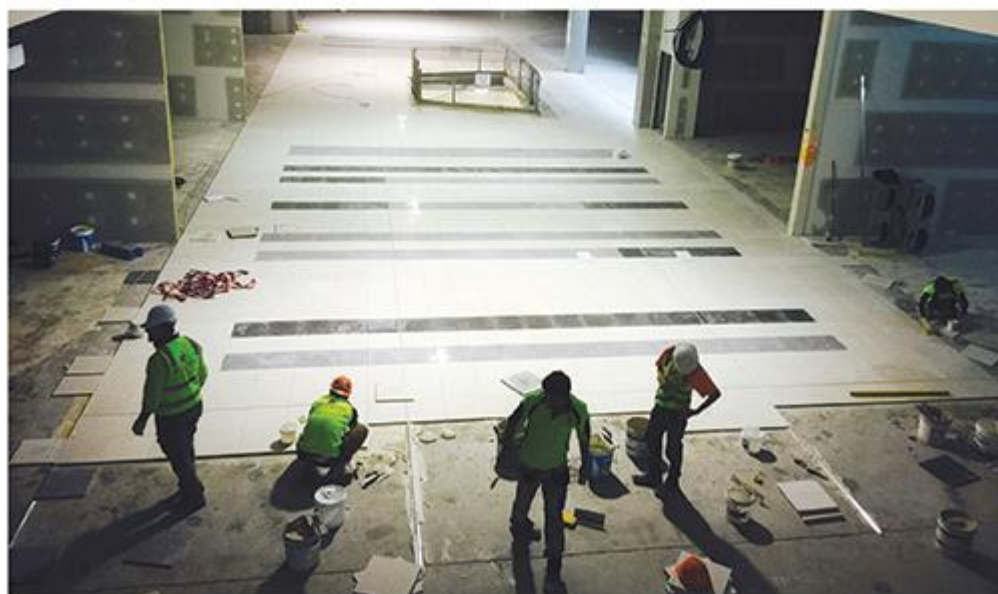


- Please receive approval from AS KARO prior to using synthetic glazes considered to be externally used on the surface.
- Henkel products or equal products can be used for cleaning and maintenance of products. Help should be requested from authorized persons regarding material to be used; pilot applications should be requested, if required.
- A guarantee should be requested regarding the product to be used not to damage cement based materials.
- Wheel selections of carts used between machines should be performed well similar to yarn factories. Wheels with soft pattern and not damaging the tile surface should be used. (Wheels with large diameter, large width and soft pattern should be used).



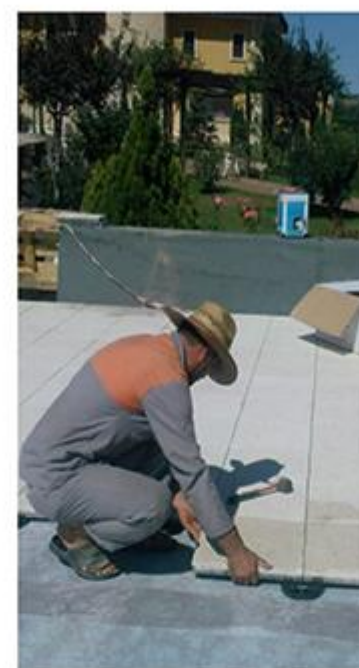
# ISSUES TO BE CONSIDERED DURING INSTALLATION

- The area to be covered should be cleaned and moisturised.
- Preparing the grout material: 2 gauges of portland cement, 8 gauges of screened sand or 0-5 mm screened crushed chips or sand mixture should be mixed as dry, prepared mixture should be used by watering separately. Watered mixture should be consumed in 15-20 minutes.
- You can increase the dosage of grout material by using less sand or chips.
- Grout spaces should not be available under Terrazzo Tiles during installation. These spaces generally seen at 2 corner or 4 corner joint places of tiles. This is caused by the trowel movement made by the tiling master for cleaning tile edge during tiling. Spaces under tiles cause breaking during usage.
- Tile installation should be made by leaving 2 mm space (2 mm plus should be used).
- Use rubber hammer during placement.
- Everything to contaminate the product should be prevented during and after tiling.
- Excessive hot, excessive cold, excessive wind and rain may negatively affect the tiling grout. Pay attention.
- Thickness of tiling group varies depending on the tiling type.
- If it will be performed by pouring cement slurry on the grout mixture, it should be between 15-30 mm, and if tiling will be performed through bedding by laying damp levelling grout at bottom and wet grout on the top, it should be between 30-50 mm.
- WARNING: Cracks may be seen if the thickness is more than recommended.
- AS KARO should be consulted if a different tiling method is used.
- Terrazzo tiles should be installed by leaving joint spaces. These spaces are closed by filling joint spaces following the installation operation. It is important to completely fill joint spaces. Putty (fuga - points) application has 2 functions. Primarily tiles should be interlocked, secondarily spaces under tiles (particularly 4 corner joint places) should be filled. It should be performed by repeating 2-3 times.
- Please wait for 10 days for seeing final status of products with completed installation. This period is enough for dehumidifying the tiling grout.
- Shipped tiles should be used within 2.5 months at latest. Otherwise, surface glaze will enter into interaction. In cases that stock period increases 2.5 months, please request packing from AS KARO to resist the stock period.



# RECOMMENDATIONS DURING POINTING / JOINT FILLING

- Joint filling should be performed 3-7 days following the installation depending on weather conditions.
- Construction wastes should be cleaned and humidified between joints prior to applying putty to installed products. Cleaning can be performed with a thin end stick.
- White cement and marble powder mixture (colouring pigment, if required) should be watered until reaching ayan stiffness for joint filling operation. It should be applied in vertical and cross forms with floor squeegee for full placement between joints at least for 2 times.
- Last layer should be applied as viscous (putty).
- Application should be repeated in case of any spaces or collapses.
- Cement + marble powder (colouring dye) mixture should be used in dry condition during joint filling.
- Surface should be washed with soft soap and flushed with plenty of water at least 12 hours following completion of application.



# AS KARO PRODUCTS QUALITY TEST TABLES

RESULTS OF ANALYSIS PERFORMED IN MERSIN UNIVERSITY

Requested	Slope (mm.)	Water Absorption (max.)	Corrosion (max.)
TSE Standards	50	5%	15 cm3
Order	Slope	Water Absorption	Corrosion
1	90	4,70%	10 cm3
2	101	3,70%	9,0 cm3
3	100	3,70%	8,5 cm3

AS KARO TECHNICAL SPECIFICATIONS IN TSE STANDARDS

Experiments	Requested Values	Askaro
Water Absorption	Max %5	3,60%
Flexural Tensile Strength	6 N/mm2	8,5 N/mm2
Corrosion Resistance	15 cm3/50 cm2	14,9 cm3
Frost Resistance Flexural Value	5 N/mm2	7,4 N/mm2
Corrosion Resistance Flexural Value	15 cm3/50 cm2	13,1 cm3
Surface Brightness	Min 35 Gloss	65 Gloss



## PRODUCT RESEARCH AND DEVELOPMENT

AS KARO®

AS KARO personnel collect information during site study performed by negotiating with appliers, engineers and architects. Experts assess information received from the site and perform studies in AS KARO laboratory regarding new product development, product easy usage and durability.



Wash Concrete Barbecue



Custom Design Stair



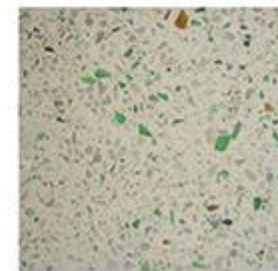
Custom Design Stair



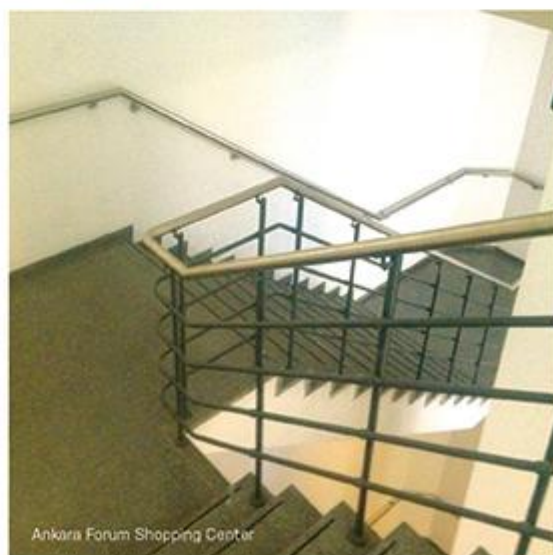
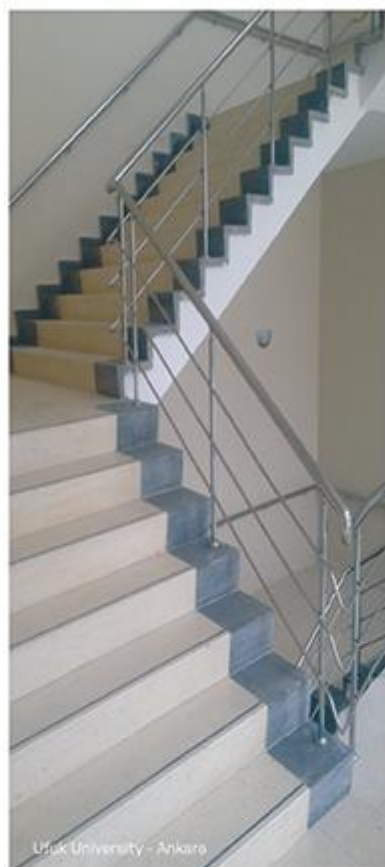
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PR-DE department always supervise the product quality through advanced laboratory technology.

**REQUEST  
PRODUCTS SPECIAL  
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PROJECTS AND WE  
MANUFACTURE!**











Batman Tupras



CMS Paketleme



Park Gorden Residence



Car Service



TPAO Landscape Batman



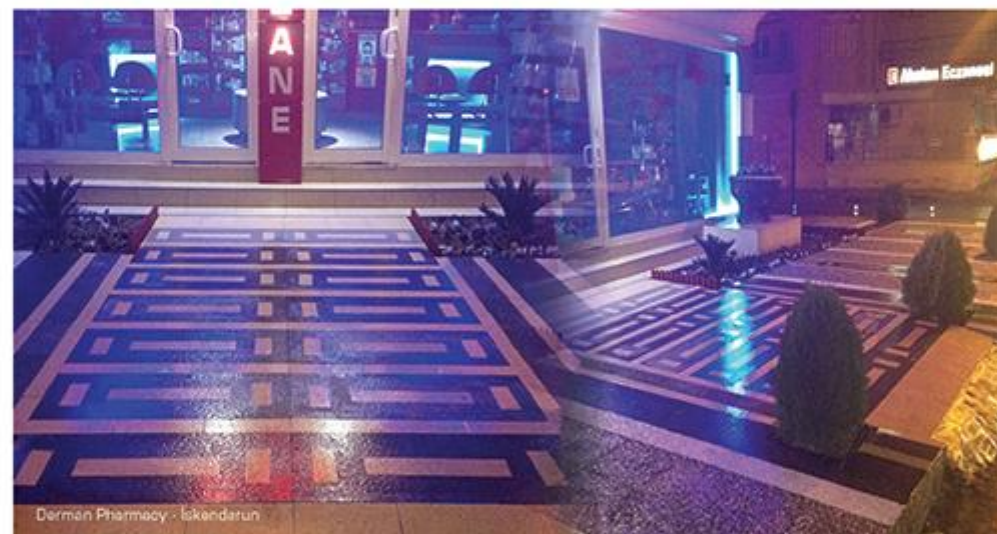
Ford Otoko Service



Antakya Residence



Norin Hotel - Antakya



Derman Pharmacy - Iskenderun



Wedding Hall Landscape - Tarsus 1

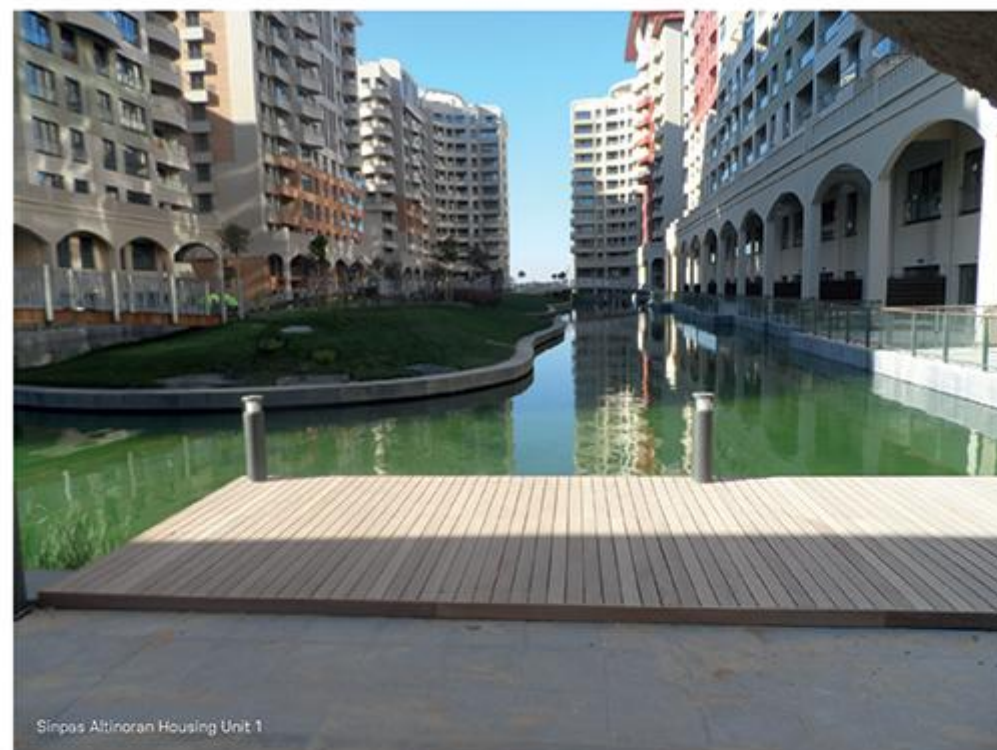


Wedding Hall Landscape - Tarsus 2

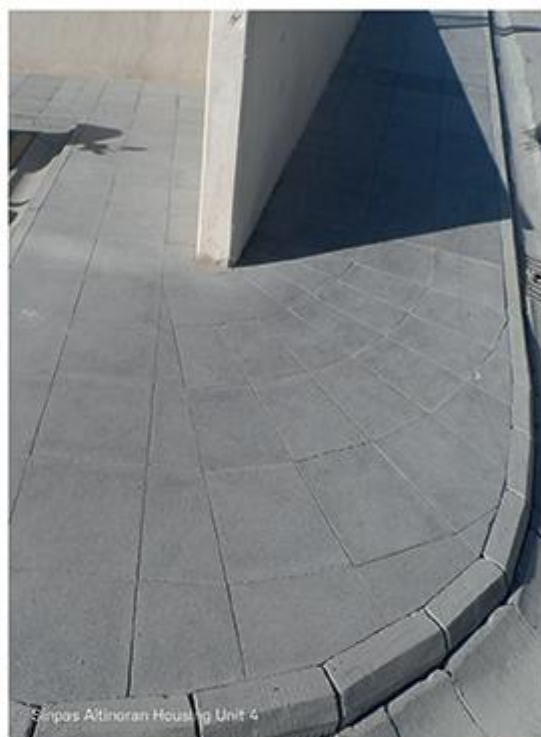








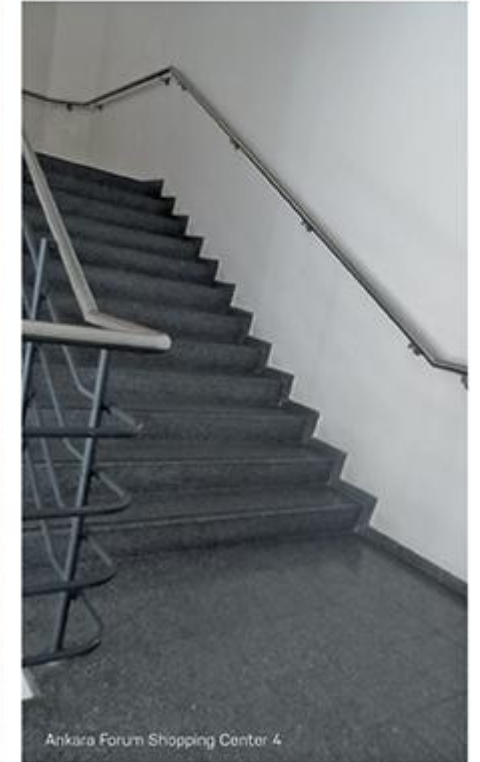
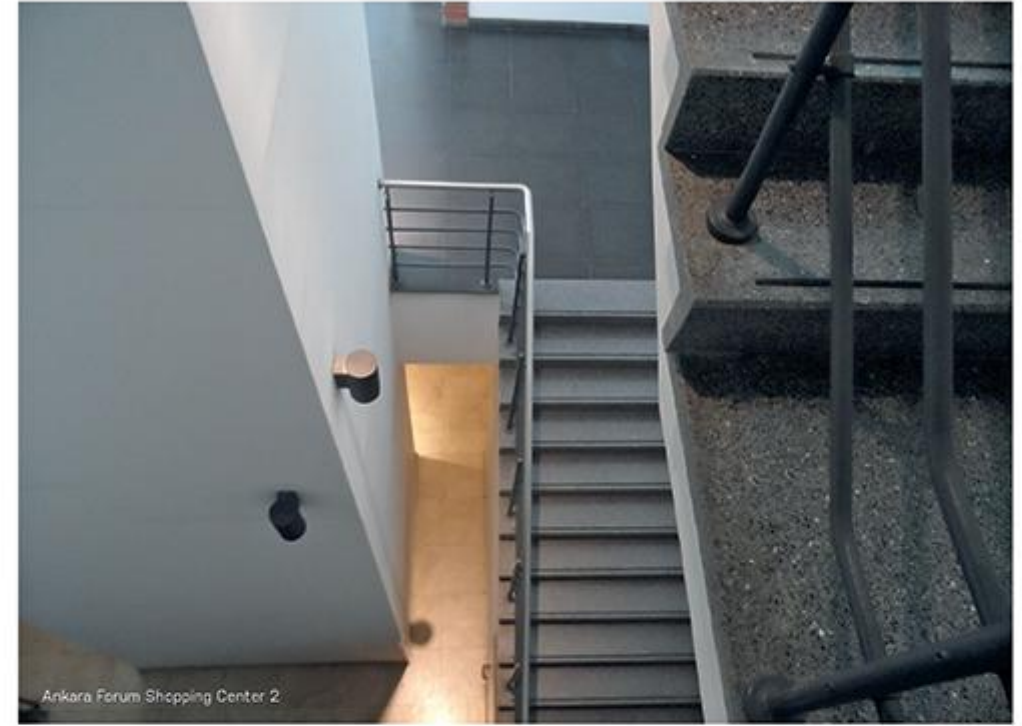
















Avustralya Sydney Shopping Center



Avustralya Sydney Shopping Center



Mersin Marina



Mersin Marina



Sarıy Residence



Mersin Atatürk Park



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**AS KARO®**

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