



مصنع القطامي للمواد العازلة
Al-Qatami Insulation Material Factory



EPS PRODUCTS

EPS

Expandable Polystyrene

Expandable Polystyrene (EPS):

A thermoplastic product that is lightweight, strong and offers excellent thermal insulation, making it ideal for Packaging and Construction industries.

We manufacture products to serve the following industries:

- Packing & Packaging
- Shapes & Decoration
- Insulation & Construction



PACKING & PACKAGING

Our materials guarantee maximum levels of preservation and protection for any goods. EPS packaging achieves significant transport savings because its light weight resulting in lower fuel consumption. Plus, its exceptional cushioning and thermal properties result in lower damage rates and maintain a secure environment for temperature sensitive products.

EPS Products for Packing & Packaging

Our standard sizes of molded STYROQ boxes comes as follows:

Type	Internal Size (cm)	External Size (cm)
Ice Box Large	57.5 x 36.3 x 23.5	64.0 x 42.0 x 31.0
Ice Box Medium	57.5 x 36.3 x 17.5	64.0 x 42.0 x 25.5
Ice Box Small	43.0 x 32.5 x 17.5	48.0 x 37.5 x 24.5
Izo Box A-Type Large	36.5 x 20.5 x 17.5	41.0 x 25.0 x 22.5
Izo Box A-Type Regular	36.5 x 20.5 x 13.5	41.0 x 25.0 x 18.5
Izo Box A-Type Small	36.5 x 20.5 x 10.0	41.0 x 25.0 x 13.5
Izo Box C-Type	26.0 x 18.0 x 11.0	30.0 x 22.0 x 15.5
Ice Cream Box Regular	28.0 x 12.0 x 12.0	31.0 x 15.0 x 16.0
Ice Cream Box Small	28.0 x 12.0 x 7.5	31.0 x 15.0 x 11.0
Modified Round box Large	30.0 x 19.0	34.0 x 24.0
Modified Round box Medium	30.0 x 13.5	34.0 x 18.5
Modified Round box Small	30.0 x 10.5	34.0 x 15.5
Modified Round Candy box 75mm	30.0 x 5.0	34.0 x 9.0
Round box 8 φ	20.0 x 14.0	23.5 x 19.0
Round box 6 φ	14.5 x 11.0	18.0 x 15.0
Round box 4 φ	10.0 x 9.0	12.5 x 13.0

EPS BEADS

Applications

- Bean bags for comfort sittings
- Loose fill
- Packing fragile items
- Toys fillings
- Stuffing Material for any products
- Loose Filling Packaging System

EPS Beads specifications

Range approximately 3 – 15 mm apparent density of 8-15 Kg/m³

Benefits of StyroQ Beads

- Excellent Insulation
- Superior Cushioning and Protection
- Adapt to Shapes and Mould-able
- Fire-retardant and Self-Extinguish
- Contains No CFC, HCFC or its elements, thus Environmentally Friendly
- Light in Weight and white in color



EPS SPECIAL PACKAGING

Benefits of Styroq EPS for Special Packaging

- Lightweight, rigid, resists the growth of bacteria, and is easy to handle.
- Extremely cost-effective.
- Absorbs shock.
- Structurally strong, moisture resistant and good insulation value.
- Computer-guided cutting eliminates the need for expensive dies.

Types of Styroq Special Packaging items:

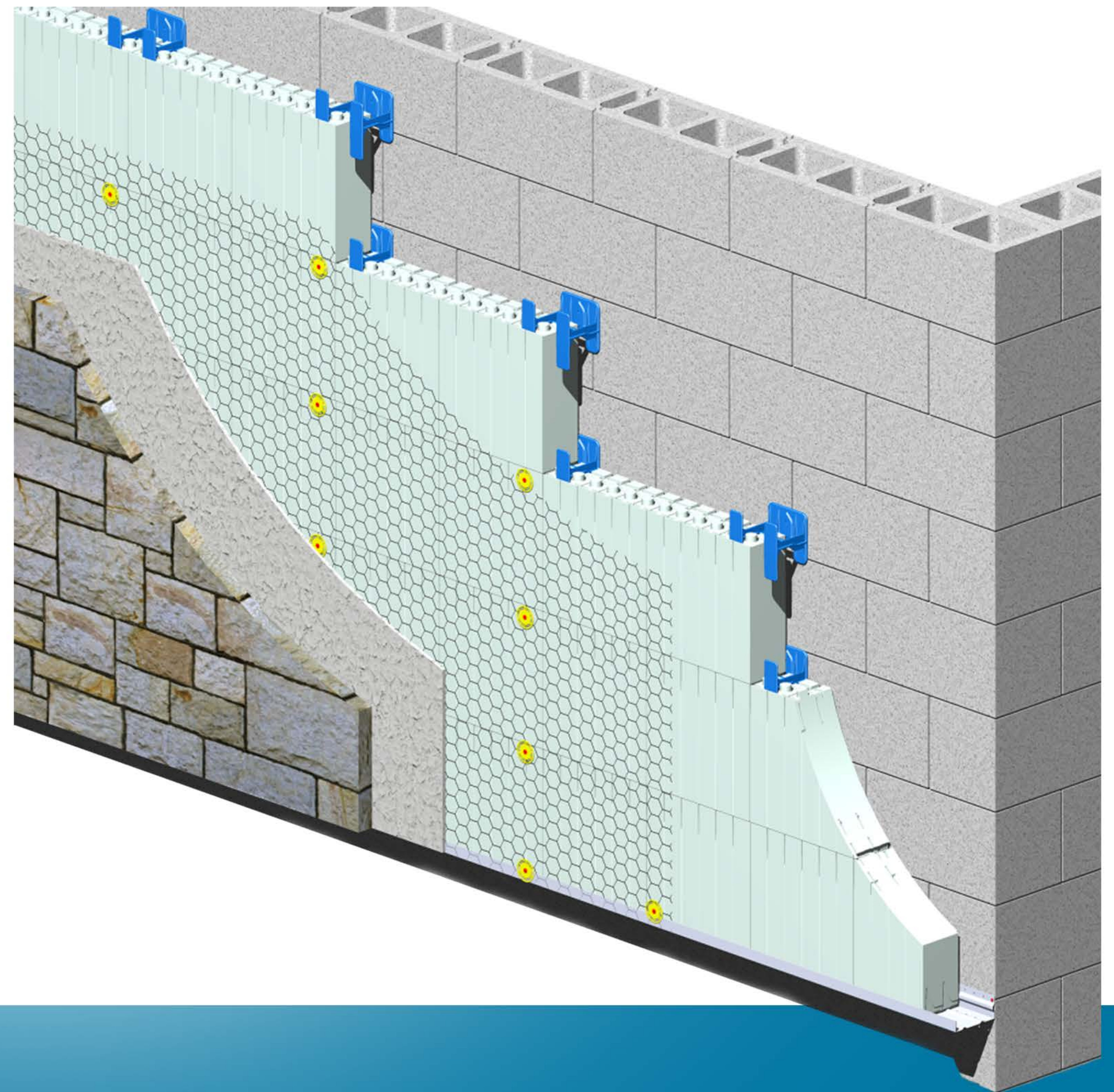
- Trays, planks, sheets, liners and boxes.
- Packaging inserts and shippers.
- Insulated coolers.
- Edges Protectors.
- Recyclable.

Density: can be produced from 8-50 Kgs/M3, special densities can be produced upon request.



INSULATION & CONSTRUCTION

EPS is one of the lightest of all construction materials allowing ease of handling and faster construction times. Its outstanding thermal insulation properties and durability ensure performance throughout the full life time of the building/construction application in which it is used.



EPS PRODUCTS FOR INSULATION & CONSTRUCTION

EPS Sheets

- Density: can be produced from 8-50 Kgs/M³, special densities can be produced upon request.
- Standard thickness: Possible from 5 mm to 1350 mm, the higher thickness can be achieved in multi-layers by bonding.
- Standard Size: 2000 × 1000 mm or 2500 × 1250 mm or any non-standard size can be cut and supplied.
- Density: Normally from 14-16 Kgs/m³ sheets are recommended.
- Standard Size: 2000 x 200 x 15-20mm. EPS high-density strips are recommended to fill the joints.
- Density: 20-25 Kg/m³.
- Standard Size: 1200 x 600 x 75/100mm.
- Density: 18-20 Kgs/m³



Applications of StyroQ EPS Sheets (ECCOBoard Sheets)

- EIFS/ETICS
- Concrete curing
- Sound and acoustic insulation to reduce noise pollution
- Roof Insulation
- Floor Insulation
- Wall Insulation
- Soffit insulation
- Craft Projects
- 3D wall panels and decorations
- All kinds of art, lattice, paintings and design

Benefits of STYROQ EPS Sheets

- It is Lightweight, white in color
- Smoke Suppressive
- Water Proof
- Non-corrosive
- Chemically Inert
- Excellent Compressive Strength
- Dimensionally stable
- Good Physical, Thermal Properties
- Environment Friendly
- CFC, HCFC Free
- 100% Recyclable
- Ozone Friendly
- GWP<5

EPS BLOCKS

Expanded polystyrene (EPS) blocks are used to fill portions of the slab thickness it saves the amount of concrete and hence the own weight of the slab is reduced. The compressive strength of the block depends on its density as shown in table below.

Standards	ASTM C 578	TYPE XI	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV	TYPE XV
	BS 3837	LD	SD	HD	EHD	UHD	SHD	XD
	Product	10 / 12	12 / 14	16 / 18	20 / 22	24 / 26	34 / 38	special order
Physical Properties	Density	12	14	18	22	26	38	46
				(min, Kg / m ³)				
	Compressive Resistance	35	69	90	104	173	276	414
				(@ yield or 10 % deformation, which occurs first, min kPa)				
	Thermal Resistance R-Value	0.55	0.63	0.67	0.70	0.74	0.74	0.76
				(of 25.4 mm thickness @ mean temperature of 24 ± 1 °C min,K.m ² /W)				
	Thermal Conductivity R-Value	0.0482	0.0419	0.0394	0.0377	0.0356	0.0356	0.0347
				(max, W/m.K @ 35 °C and 60 % RH)				
	Flexural Strength	70	173	208	240	345	414	517
				(min, kPa)				
	Water Vapor Permeance	5.0	5.0	3.5	3.5	2.5	2.5	2.5
				(of 25.4 mm thickness, max, perm)				
	Water Absorption	4.0	4.0	3.0	3.0	2.0	2.0	2.0
				(total immersion, max, volume %)				
	Dimensional Stability	2.0	2.0	2.0	2.0	2.0	2.0	2.0
				(change in dimensions, max %)				
	Oxygen Index	24	24	24	24	24	24	24
				(min, volume %)				
	Flame Spread Index	25	25	25	25	25	25	25
				(max, as per surface burning characteristics ASTM E84)				
	Smoke Developed	450	450	450	450	450	450	450
				(max, as per surface burning characteristics ASTM E84)				

Landscaping

Benefits of Styroq EPS Landscaping

- Unlike traditional earth filling material, it is very light weight
- It has Excellent compressive strength,
- Excellent Dimensional Stability
- Low water absorption
- Good Acoustic properties
- Durability
- Flame retardant
- Good flexural Strength (From 70 to 250 KPA)

Chemical Resistant Behaviors of Styroq Landscaping:

- Nontoxic, Non Nutrient, Inert material, Corrosion resistant
- It doesn't react with most of the chemicals except solvents & Solvent vapors
- Resistant to chemical attacks
- Non – biodegradable

Benefits of EPS Handling at the site:

- Easy work-ability at the site.
- EPS maximizes onsite installation efficiency It is easily inventoried and handled.
- Installation is not delayed by weather.
- STYROQ EPS can arrive at the job site prefabricated and ready to place.
- 40 trucks of soil are equivalent to one truck of StyroQ EPS

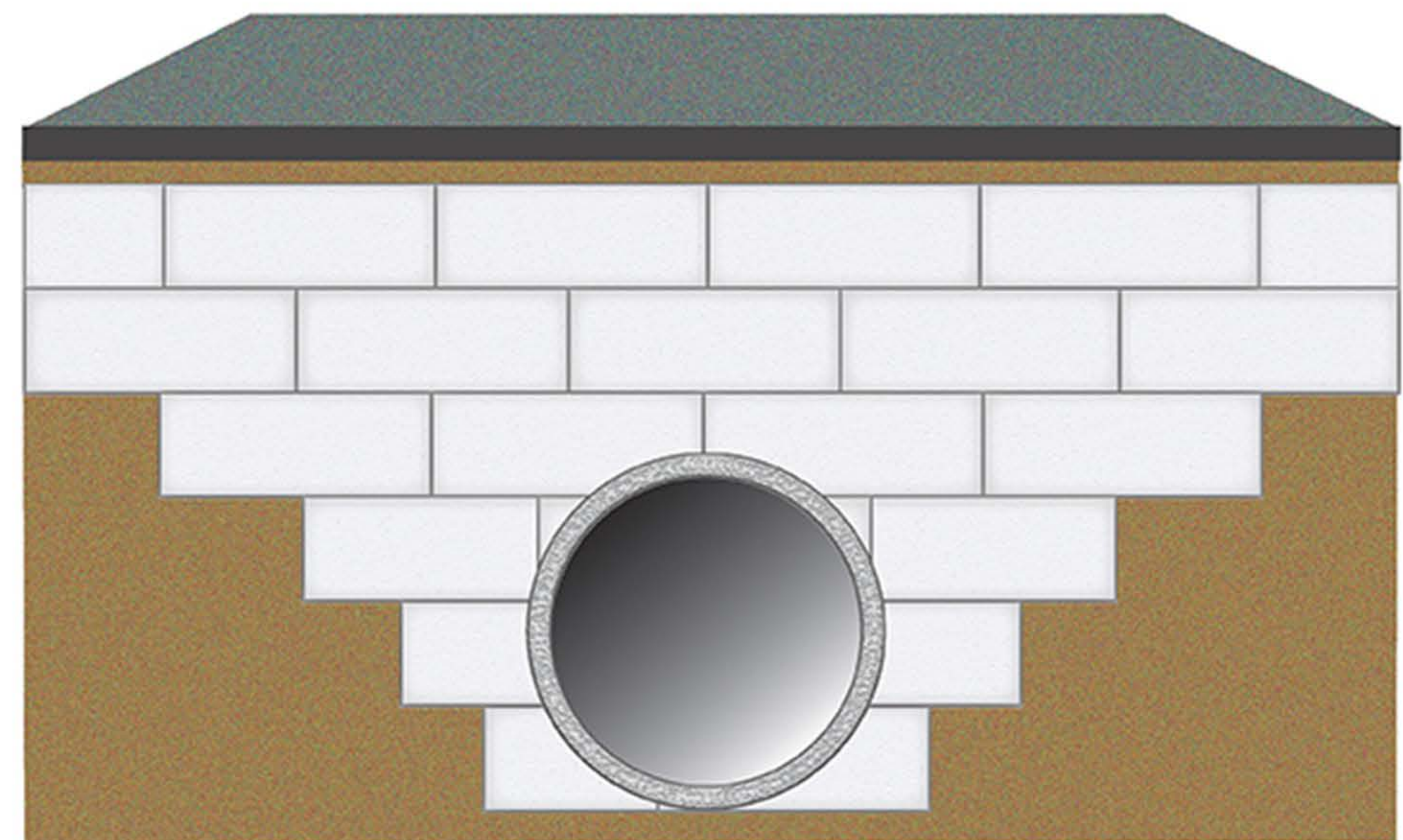
Environmental factors of Styroq Landscaping:

- Environment friendly,
- 100 % Recyclable
- HCFC, CFC free
- Global Warming Potential (GWP) is <5
- Ozone Depleting Potential (ODP) is Zero
- High sustainability

Geofoam

Benefits of using GEOFOAM

- Easy workability at the site, STYROQ GEOFOAM maximizes onsite installation efficiency
- It is easily inventoried and handled
- Installation is not delayed by weather
- STYROQ GEOFOAM can arrive at the job site prefabricated and ready to place
- 40 trucks of soil are equivalent to one truck of STYROQ GEOFOAM
- Non-toxic
- Non-Nutrient
- Inert material
- Corrosion resistant
- Resistant to chemical attacks
- Non – biodegradable
- It doesn't react with most of the chemicals except Solvents & Solvent vapors.
- Environmental Impact.
- Environment friendly
- 100 % Recyclable
- Comply to LEED
(Leadership in Energy & Environment Design)
- HCFC, CFC free
- Global Warming Potential (GWP) is Zero
- Ozone Depleting Potential (ODP) is Zero
- Sustainability



Cylinders

EPS Cylinders for Piling and Wall Guide

Applications

- Piling and guide wall.
- Shoring applications.
- Strong base construction

Benefits of Styrofoam Piling Cylinders

- Time efficient, faster delivery
- Easy to handle at site
- Flexible in design since it is cut by CNC
- Recyclable

Floor Raising

Density: can be produced from 8-50 Kg/m³, special densities can be produced upon request.

Recycled Beads

Applications

- Soil aeration / soil loosening.
- Light-weight concrete mix.
- Gardening and potting soil.

Advantages

- EPS beads are ideal for land fill
- Virtually Zero Water absorption
- Compatible with soil or synthetic soil
- Fire-retardant and Self-Extinguish
- Contains No CFC, HCFC, and Eco friendly
- Light in Weight and white in color
- Does not decompose
- Low cost
- Easy application

Parapet modules

Benefits of Styroq Parapet Moulds

- Used as a mold to make designed profiles on parapet walls
- Flexible in design.
- Lighter in weight.
- A lot more cost effective than other material.
- Faster production unlike wooden mold.
- Compatible with cement & concrete.
- Accuracy since it is cut with CNC.
- Reusable / Recyclable.
- Reduces work force and time
- Lightweight
- Strong and Resilient, Shock absorbent
- Non-corrosive
- Chemically Inert
- Excellent Compressive Strength
- Dimensionally stable
- Good Physical, Thermal Properties
- Environment Friendly
- CFC, HCFC Free
- 100% Recyclable<5
- Ozone Friendly

Density: 16-18 Kg/m³ High densities are possible upon request.



Pontoon & Buoy

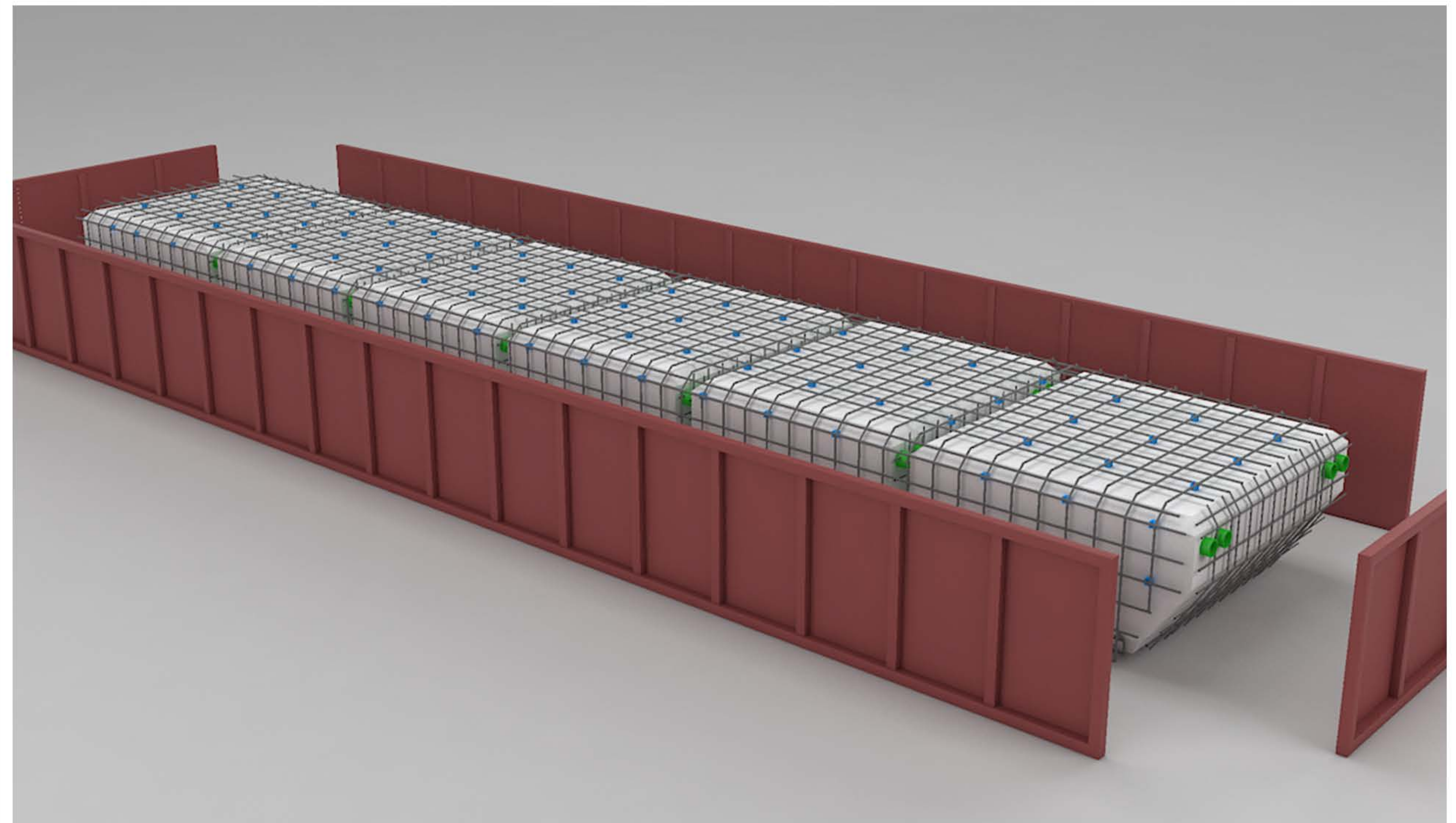
Domes for Concrete Casting

- Features of STYROQ EPS Domes
- Easy to Install – Saves time & effort
- Cost effective
- Easy to dismantle
- Flexible in Design and Shape
- 100% Recyclable
- Light- weight & Durable
- Environment Friendly

Core Insulation for EIFS

STYRO EIFS is

- E – Environment friendly
- I – Insulating with EPS
- F – Flexible in design
- S – Sustainable



SHAPES & DECORATION

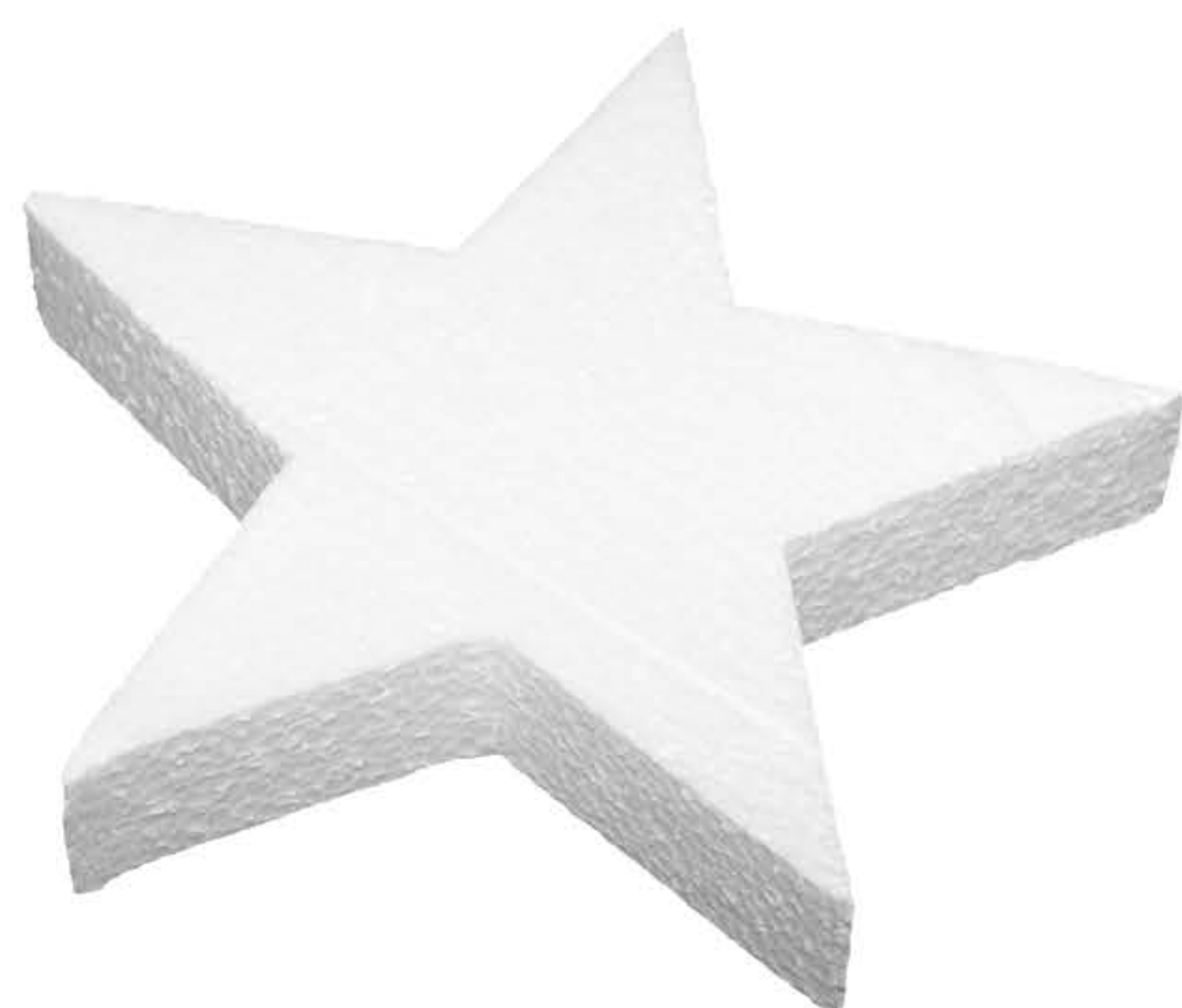
Our team of artists produces the finest quality, the most attractive decoration and artistically shaped pieces in order to give remarkable impressions anywhere it placed. Combining beautifully crafted decorative shapes with reasonable cost, light weight and ease of handling can be achieved easily with StyroQ.

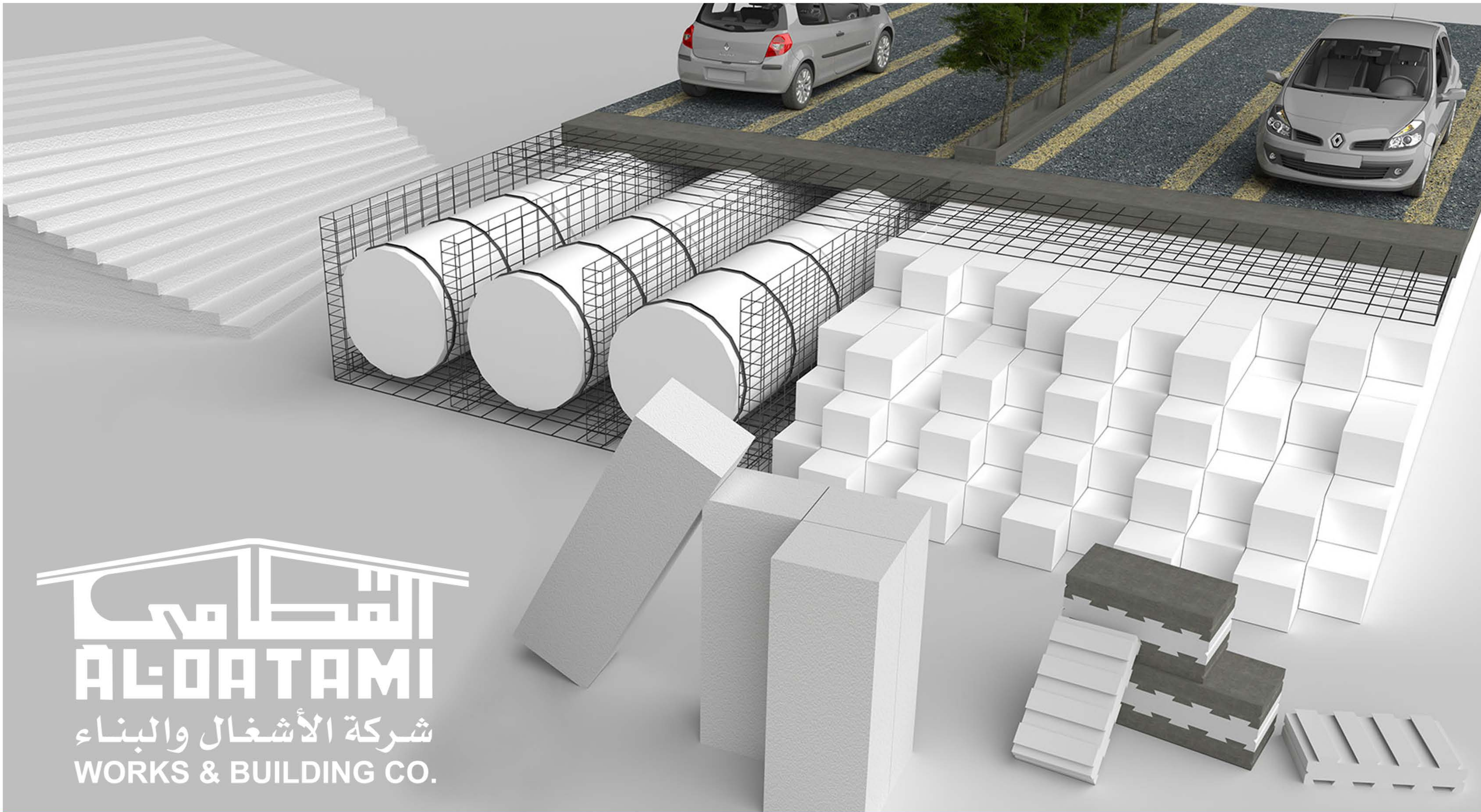
In addition to the variety of pre-casted Cornish, Pillars, Arches and Crowns that can contribute directly to any decoration project budget cut and finishing time schedule.

StyroQ Art Services

Our team of artists, crafters & sculptures will provide the following custom shapes based on client's requests

- Custom 2D & 3D Figures
- Events' Décor Backdrops
- Outdoor Décor
- Sculpture Detailed Carving





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