



# INFRASTRUCTURE SYSTEM

Mr Birkan YALÇINKAYA

[birkanyalcinkaya@dizayngrup.com](mailto:birkanyalcinkaya@dizayngrup.com)

+90542 225 44 13



In 1987, Dizayn Group was founded with the objective of developing and carrying out projects in heating and plumbing sector.

In 1992, First production was made.

In 2010, 32.000 m<sup>2</sup> closed 100.000 m<sup>2</sup> open area in Çorlu / İstanbul and different other production facilities.



## OUR VISION

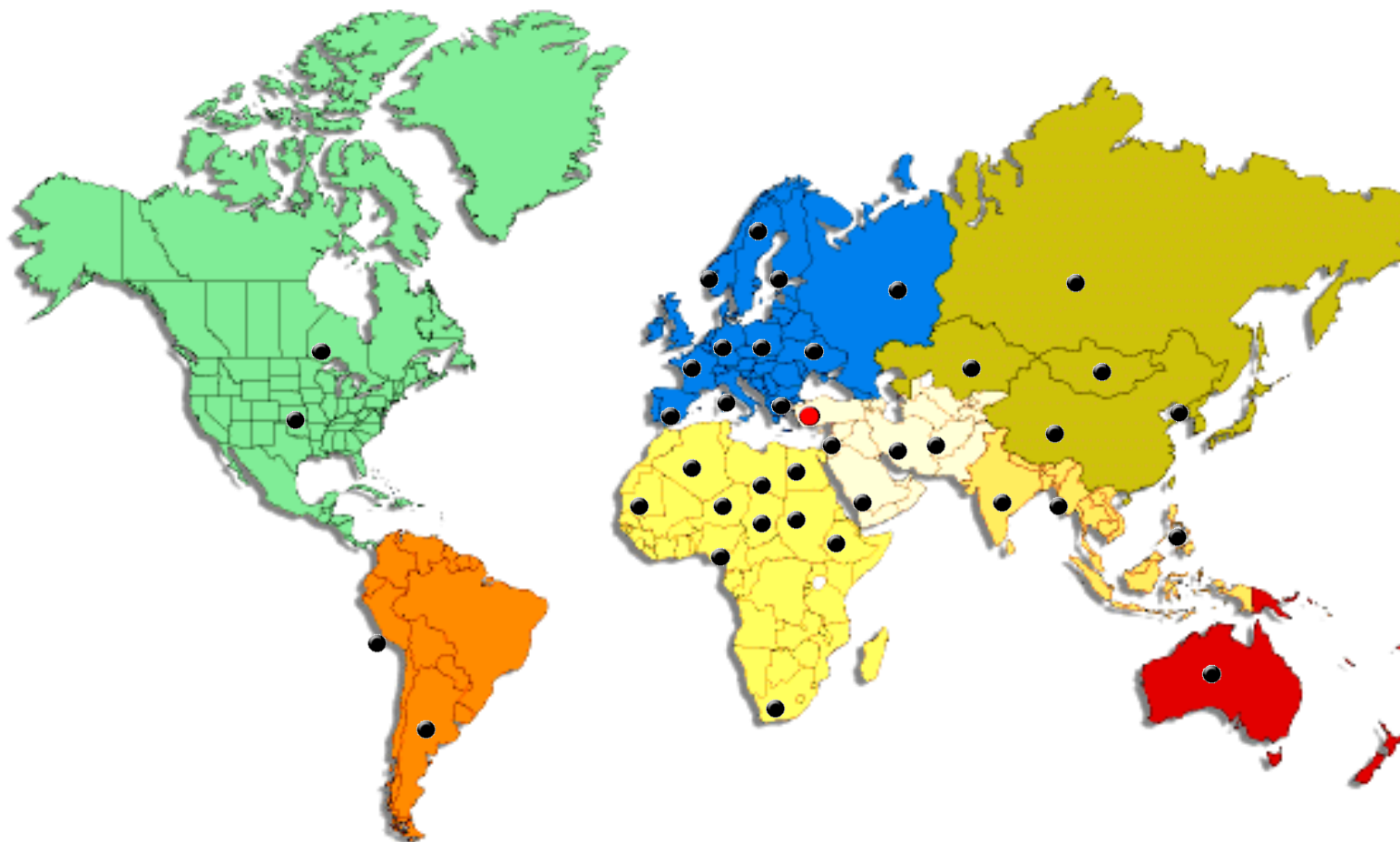
To become a world brand by researching, developing and producing new Technologies that will form distinctions in transfer of the fluids

## OUR MISSION

In order to transfer the fluids with the most optimal method; to achieve becoming a reliable and productive company by developing projects, products and systems peculiar to the problem with the accurate technology.



# SELLING ITS PRODUCTS OVER 80 COUNTRIES



More than 4000 kind of Products, 23 different systems, 85 patents, development of new specific products for kind all of Sanitary and Infrastructure System in HDPE and PPr raw material





FIRST TIME WE DID IT!

DiZAYN

DiZAYN  
GROUP

The easiest way to  
spread the word

BIGGEST RADIUS	:	1600 mm
BIGGEST PRODUCTION LENGTH	:	500 m
HIGHEST PRESSURE	:	PN 12.5

1600 mm

WITH 12.5

PRESSURE

# YOU ARE GUARANTEED!!



ZURICH Sigorta Meclis-i Mebusan Cad.  
ÇBS Han No: 47/6 34427 Fındıklı / İSTANBUL  
Tel: 0 (212) 393 16 00

Dizayn Teknik Plastik Boru ve Elemanları San. ve Tic. A.Ş. adına imalatı yapılan ürünlerin  
20.000.000 USD limitle Zurich Sigorta A.Ş. tarafından ürün sorumluluk poliçesi ile  
teminata alınmıştır.

The products produced on behalf of Dizayn Teknik Plastik Boru ve Elemanları San. ve Tic.  
A.Ş. are covered with 20.000.000 USD limit of product liability policy  
by Zurich Sigorta A.Ş.

  
ZURICH SIGORTA A.Ş.

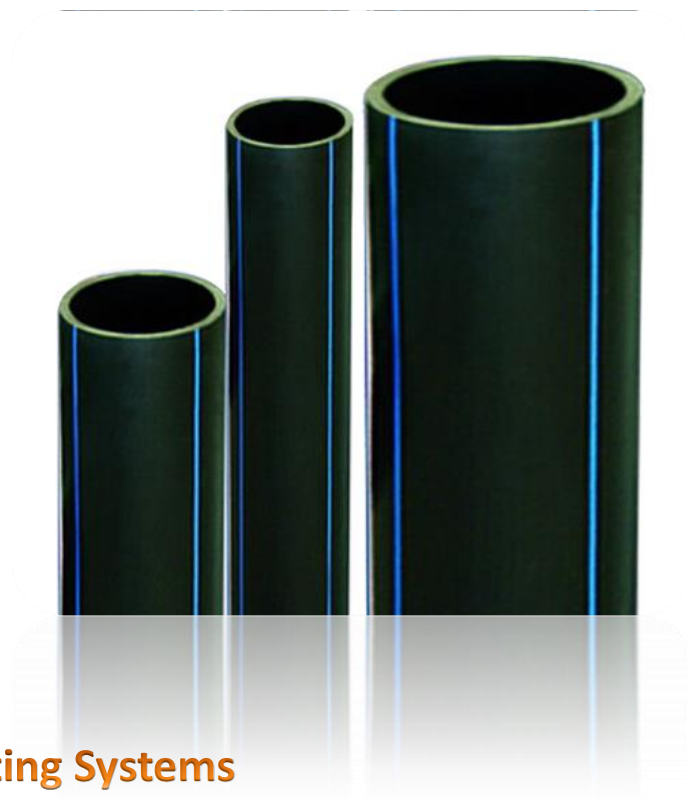
ZURICH  
SIGORTA  
A.Ş.

Dizayn Group has insured its products, upon which its projects rely, for **20.000.000 USD** against any kind of risk through a Product Liability Insurance. This insurance that is an unparalleled one in the sector will allow covering any kind of potential damage without aggrieving the customers. Thanks to this service provided for the sake of ensuring customer satisfaction and building confidence, the users of Dizayn will feel privileged.



# Infrastructure Product Group

- Potable Water Systems
- Natural Gas Systems
- Chemical Storage Systems
- Hydro Electric Power Plant (HEPP) Systems
- Sewage Systems
- Pre-Insulation City Heating Systems
- Sea Discharge Systems



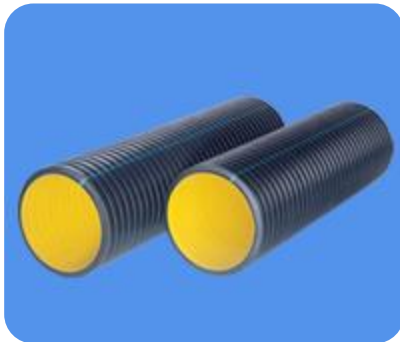


Sewage Discharge  
Systems

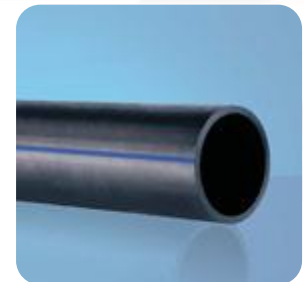
HDPE 100 Potable  
Network Systems

HDPE 80 Natural Gas  
Systems

# INFRASTRUCTURE PRODUCTS

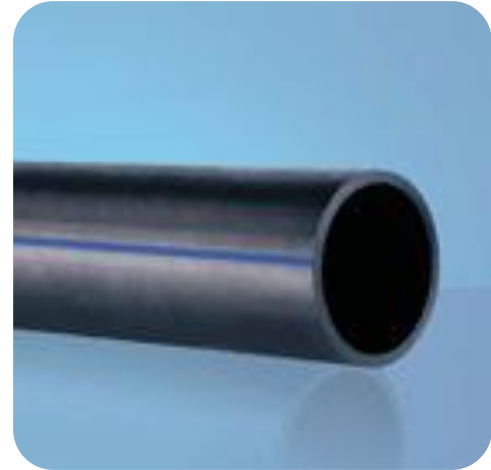


Spiral Self Systems



# POTABLE WATER

- Raw Material : HDPE / PP
- Production Color : Black
- Production Range : 16 mm – 1600 mm
- Pressure Range : 4 bar – 32 bar
- Unit Lengths : 6 – 11,8 – 13,5 meter
- Production Standard : EN 12201-2, DIN 8074
- Certificates : TSE, Gost, DVGW, Hygiene



## DIZAYN HDPE INFRASTRUCTURE SYSTEMS

### Advantages of HDPE 100 Pipes

- Perfect leak proof
- More than one connection method
- Good welding characteristics
- Availability of connection out of the trench
- Less excavation needed
- Safe Applications
- Resists earthquakes
- Smooth internal Surface
- Requires less fittings for connection
- Higher durability, resistance, endurance and strenght
- Long service life
- No need for concrete blocks
- Resistance to direct sunlight
- Different pressure class options

## Some of Successful Projects Achieved by Dizayn Group

### SANTA DOMINGO ORIENTAL CITY

Santo Domingo Oriental City  
Santo Domingo İske Suğu Projesi

Dominican Republic  
Dominik Cumhuriyeti



Project Owner : CAASD  
Proje Sahibi : Santo Domingo Su ve Kanalizasyon idaresi

Product Ürün :	HDPE 100 PIPE AND FITTINGS HDPE 100 BORU VE EK PARÇALARI	Diameters: Çap :	Ø 1600 mm	Total Quantity: Toplam Miktar :	1.350 M	Year : Yıl :	2009
-------------------	---	---------------------	-----------	------------------------------------	---------	-----------------	------



## Some of Successful Projects Achieved by Dizayn Group

### HEAD OFFICE BUILDING of İŞBANK PROJECT

Head Office Building of Is Bank  
İş Bankası Genel Müdürlük Kompleksi

Turkey  
Türkiye



Project Owner : **Is Bank**  
Proje Sahibi : **İş Bankası**

Product  
Ürün : HDPE CORRUGATED PIPE AND FITTINGS  
HDPE KORİGE BORU VE EK PARÇALARI

Diameters : **Ø 200 - Ø 600 mm**  
Çap :

Total Quantity:  
Toplam Miktar : **5.500 M**

Year : **1999**  
Yıl :

## Some of Successful Projects Achieved by Dizayn Group

### MALDIV ISLAND ANANTARA INFRASTRUCTURE PROJECT

Arantara and Alhurugaa Projects for Infrastructure  
Arantara ve Alhurugaa Altyapı Projeleri

Maldiv Islands  
Maldiv Adaları



Project Owner : Yonsan Engineering PTE Ltd.  
Proje Sahibi : Yonsan Mühendislik PTE Ltd.

Product Ürün	HDPE 100 PIPE AND FITTINGS HDPE 100 BORU VE EK PARÇALARI	Diameters Çap	Ø110 - Ø150 mm	Total Quantity Toplam Miktar	10.000 M	Year Yıl	2009
-----------------	---	------------------	----------------	---------------------------------	----------	-------------	------

## Some of Successful Projects Achieved by Dizayn Group

### THE OLD TOWN / BURJ KHALIFA DUBAI DEVELOPMENT PROJECT

The Old Town/ Burj Khalifa Development -Dubai  
Burj Khalifa Projesi -Dubai

UAE  
BAE



Project Owner: EMAAR  
Proje Sahibi: EMAAR

Product Ürün	PPR PIPE, PP WASTE WATER PIPE AND FITTINGS PPR BORU/PP ATIKSU BORU VE EK PARÇALARI	Diameters Çap	Ø 20 - Ø 75 mm	Total Quantity Toplam Miktar	100.000 M	Year Yıl	2005
-----------------	---	------------------	----------------	---------------------------------	-----------	-------------	------

## Some of Successful Projects Achieved by Dizayn Group

### EMERALD PALACE / PALM ISLAND DUBAI PROJECT

Emerald Palace In Palm Island - Dubai  
Emerald Palace Palmiye Adası - Dubai

UAE  
BAE



Project Owner : **Nakheel**  
Project Name : Nakheel

Product : Description	PFR PIPE, DKS PLUS HEATING PIPE AND FITTINGS PFR BOLL, DKS PLUS KOMBI BORDISLIYE EK PARÇALARI	Diameters: Cm	Ø 20 - Ø90 mm	Total Quantity: Tons/ton Meter	330.000 M	Year : Yıl	2008
--------------------------	--	------------------	---------------	-----------------------------------	-----------	---------------	------



## Some of Successful Projects Achieved by Dizayn Group

### BECHTEL ENKA RIJMOND ENERGY CENTER

Bechtel Enka Rijmond Energy Center  
Bechtel Enka Rijmond Enerji Merkezi

Holland  
Hollanda



Project Owner : Bechtel Enka MTO  
Pipe Sahib Bechtel Enka MTO

Product Ürün	: HOPE 100 PIPE AND FITTINGS HOPE 100 BORU VE EK PARÇALARI	Diameters: Çap	Ø 90 - Ø 355 mm	Total Quantity: Toplam Miktar	32.000 M	Year : Yıl	2002
-----------------	---	-------------------	-----------------	----------------------------------	----------	---------------	------

## Some of Successful Projects Achieved by Dizayn Group

### NILE RIVER UNDERWATER TRANSITION PROJECT

Nile River Underwater Transition Project  
Nil Nehri Sualtı Geçiş Projesi

Sudan  
Sudan



**Project Owner :** Khartoum State Water Corporation  
Proje Sahibi : Hartum Şehri Su İşleri

<b>Product :</b> Ürün :	HDPE 100 PIPE AND FITTINGS. HDPE 100 BORU VE EK PARÇALARI	<b>Diameters :</b> Çap :	Ø 500 - Ø 630 mm	<b>Total Quantity :</b> Toplam Miktar :	3780 M	<b>Year :</b> Yıl :	2003
----------------------------	--	-----------------------------	------------------	--	--------	------------------------	------

## DIZAYN SEWAGE CORRUGATED AND SPIRAL SELF DISCHARGE SYSTEMS

Raw Material : HDPE / PP  
Production Color : Black  
Production Range : 100 mm – 3000 mm  
Pressure Range : 0,5 Bar – Gravitational Flow  
Unit Lengths : 6 or 12 meters  
Production Standard : EN 13476 -1, DIN 16961  
Certificates : TSE, Gost





## DIZAYN SEWAGE DISCHARGE SYSTEMS

---



### Advantages

- Perfect leak proof
- Flexibility
- High durability
- Strength against abrasion
- Resistance to chemicals
- Different welding techniques
- Resistance to earthquakes
- Long service life
- Resistance to decaying
- Mobile production





## DIZAYN HYDROELECTRIC POWER PLANT SYSTEMS

Raw Material : HDPE 100  
Production Color : Black  
Production Range : 500 mm – 3000 mm  
Pressure Range : SR2 – SR32  
0,5 Bar – Gravitational Flow  
Unit Lengths : 6 or 12 meters Bar (Customized  
Length may also be produced)  
Production Standard : EN 13476 -1, DIN 16961  
Certificates : TSE, Ghost





Some of Successful Projects Achieved by Dizayn Group

## ANTALYA HURMA WASTE WATER TREATMENT PLANT



## Some of Successful Projects Achieved by Dizayn Group

### RIZE CAYELI UZUNDERE HEPP PROJECT

Rize Cayeli Uzundere HEPP Project  
Rize Cayeli Uzundere Hes Projesi

Turkey  
Türkiye



Project Owner: Black Sea Electricity Generation Co. Inc.  
Rize Sanayi Karadeniz Elektrik Üretim A.Ş.

Product Ürün	HDPE CORRUGATED SPIRAL PIPE HDPE SİRALI SARMALI BORU	Diameters: Çap	Ø1 200 - Ø2 000 mm	Total Quantity: Toplam Miktar	1.300 M	Year : Yıl	2009
-----------------	---	-------------------	--------------------	----------------------------------	---------	---------------	------



## Some of Successful Projects Achieved by Dizayn Group

### EUROPEAN FREE-ZONE NETWORK PROJECT

European Freezone Network Project Corlu  
Aynaga Serbest Bölgesi Altı Yapı Projesi Çorlu

Türkiye  
Türkiye



Project Owner: **Sahinler Holding**  
Proje Sahibi: Sahinler Holding

Product Ürün	HDPE CORRUGATED PIPE AND FITTINGS HDPE KÖRGE BORU VE EKİPARJLARI	Diameters: Çap	Ø200 - Ø2200 mm	Total Quantity: Toplam Miktar	6.000 M	Year : Yıl	1999
-----------------	---	-------------------	-----------------	----------------------------------	---------	---------------	------

The pipes are joined by means of a specially developed EF welding system. This special joining method guarantees a reliable weld and 100% tightness.



## Some of Successful Projects Achieved by Dizayn Group

### ERFELEK, SINOP MOBILE PRODUCTION PROJECT

Sinop Erfelek HEPP Project  
Sinop Erfelek HES Projesi

Türkiye



Project Owner : Birim Hydroelectric  
Proje Sahibi : Birim Hidroelektrik

Product : HDPE CORRUGATED SPIRAL PIPE (SR6)  
Ürün : HDPE SPIRAL SARIMLI BORU (SR6)

Diameters :  
Çap :

Ø1600 mm

Total Quantity :  
Toplam Miktar :

7.400 M

Year :  
Yıl :

2009

Canakkale Biga Sewage System  
Canakkale Biga Kanalizasyon Projesi

Türkiye



Project Owner : Gintek Construction  
Proje Sahibi : Gintek İnşaat

Product : HDPE CORRUGATED SPIRAL PIPE (SR8)  
Ürün : HDPE SPIRAL SARIMLI BORU (SR8)

Diameters :  
Çap :

Ø1000 mm

Total Quantity :  
Toplam Miktar :

1.885 M

Year :  
Yıl :

2009

Thanks to this newly-developed technology, the manufacturing yard is erected on the territory of the power plant and the resulting on-site manufacturing process clears the transport costs. Under this technology, when water supply lines are designed with plastic pipes, competitive costs can be produced compared to traditional systems.





# Production Area Sinop - Erfelek





# Production Area Sinop - Erfelek



# Production Area Sinop - Erfelek



# Production Area Sinop - Erfelek





# Stock in Mobile Production





# Application Erfelek - Sinop



# Application Erfelek – Sinop

..[\Documents\sarmal uygulama ENG.pdf](#)





# Application Erfelek - Sinop



# Application Erfelek - Sinop





# MOBILE PRODUCTION TECHNOLOGY





# MOBILE PRODUCTION TECHNOLOGY





# MOBILE PRODUCTION TECHNOLOGY

