



TECHNIQUE ANCHOR

INSTALLATION AND COUNSELLING SERVICES



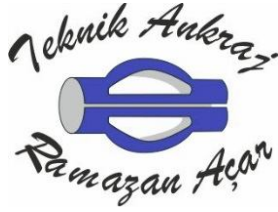
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We are manufacturing the permanent ground anchors and the protective materials of bolts within the domestic facilities.

The temporary anchored retaining systems used in deep excavations are spreading rapidly in our country in recent years. However, permanent anchor and soil nail systems have not been used widely. These materials which are imported with high costs are not affordable properly. It is also very difficult to provide them at any time needed.

In order to overcome this deficiency, except the anchor strands and reinforcement bars I am manufacturing the entire metal and plastic assemblies of the permanent ground anchors and soil nails which I have been working on for a long time. By utilizing my experience at the site, I have tried to design the best. The cost was minimized compared to the import cost.

The permanent details for anchors and soil nails are expected to protect the reinforcement bars and wire strands against corrosion for a long time. I have fully implemented this protection both on permanent anchors and permanent soil nails as well.

Due to the difficulty of transportation of assembled permanent anchors, I have made it more economical and practical by assembling at the construction site.

All products are completely made from domestic and original raw materials. Our products are all plastic and metal assemblies for

* $3 \times 0.5''$, $4 \times 0.5''$, $5 \times 0.5''$, $6 \times 0.5''$ and $4 \times 0.6''$, $5 \times 0.6''$, $6 \times 0.6''$ steel strand anchors and $\varnothing 25$, $\varnothing 28$, $\varnothing 32$, $\varnothing 40$ soil nails

TEKNİK ANKRAJ
Ramazan AAR



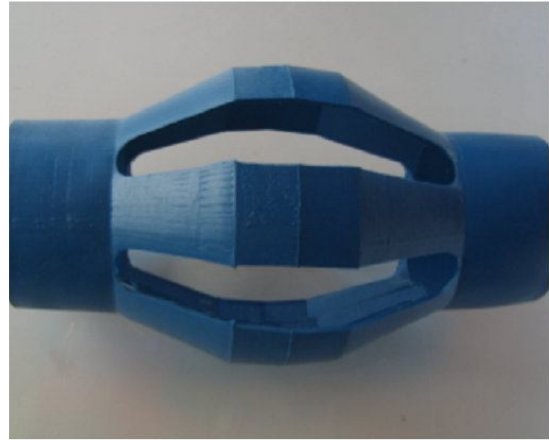
Our products for permanent and temporary anchors:

1. Plastic and metal assemblies for 3,4,5,6 strand 0.6" anchors
2. Plastic and metal assemblies for 3,4,5,6 strand 0.5" anchors
3. Anchor head for 0.5" and 0.6" strands for all suitable dimensions
4. Ø50 Corrugated pipe
5. Ø75 Corrugated pipe
6. Ø90 Corrugated pipe
7. Permanent anchor head cover
8. Permanent anchor oil cap
9. All kinds of metal anchor plates for 10°-15°-20°
10. Inner spacer of corrugated pipe
11. Downhole centralizer of corrugated pipe
12. End plug of corrugated pipe
13. Isolation plug for the fixed/free length transition zone of permanent anchor
14. Isolation plug for the topmost part of free length zone of permanent anchor
15. Permanent anchor head
16. Spacers for temporary anchors
17. Downhole centralizers of temporary anchorage
18. Free length isolation plug of temporary anchorage (for 50 mm diameter pipes, 3 and 4 strand anchors)
19. Plastic covers for permanent anchors
20. Free length isolation plug of temporary anchorage (to prevent the rotation of test hydrolic jacks)
21. End pilot plug of temporary anchors
22. Permanent soil nails
23. Inner centralizers of corrugated pipe of permanent soil nails
24. Anchor testing apparatus for elongation measurement (digital 15 cm-20 cm-30 cm)
25. Watertight rubber plugs to be used on drilling process of permanent and temporary anchors.





R.A - G 10



R.A - KG 50



R.A - G 30



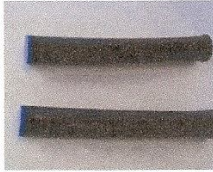
R.A - G 40



R.A - KG 50



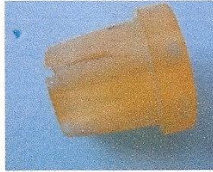
R.A - KG 50



RA-K 30



RA-K 40



RA-K 51



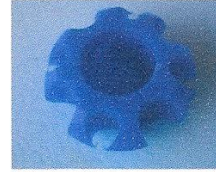
RA-K 60



RA-K 81



RA-K 70



RA-G 10



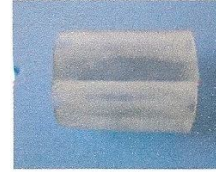
RA-KG 50



RA-G 30



RA-G 40



RA-KG 50



RA-KG 50



RA-K 80



RA-K 81



RA-K 90



RA-KG 20



RA-GAB 1



RA-KB 10



RA-KB 20



RA-KGB 20

**BLACK SEPARATOR RAW MATERIAL VALUES****COMMERCIAL NAME : BRASKEM HDPE****PRODUCT GUARANTEE VALUES :**


TEST NAME	UNIT	VALUE	METHOD
Melt Flow Rate (MFR) (2160 g, 190°C)	g/10d	1.8 g	ASTM D-1238
Density (23°C)	g/cm ³	0.932 - 0.945	ASTM D-1505

TYPICAL VALUES

Tensile stress	180	ASTM	D-638
-Flow stress kg/cm ² -Breaking stress kg/cm ² -	250	ASTM	D-638
Elongation at break %	400	ASTM	D-638

Flexural Strength	kg/cm ²	380	ASTM D-882
Izod Impact Strength	Kg cm/cm	30	ASTM D-882
Environmental Stress Cracking Resistance (F50)	hour	min. 1000	ASTM D-1693

PRODUCT FORM : Pellet**PACKAGING : 25 kg FFS (Form Fill Seal) white PE bags
or 1400 kg big-bags****STORAGE CONDITIONS : Closed and dry places away from sun with a temperature below
50°C****USES : Extrusion and injection molding.**

	<p>QUALITY MANAGEMENT SYSTEM</p>	<p>DOC.NO:F P14 01 DATE OF ISSUANCE.:01.01.2005 REV.:0 PAGE :1</p>
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Ø 90 MM SINGLE WALLED PIPE DIMENSIONS :


INSPECTIONS	
Wall Thickness (mm)	1.0 ,
External Diameter (mm)	90.00
Internal Diameter (mm)	77.40

Ø 90 mm SINGLE WALLED PIPE PROPERTIES :

Our pipes are made of high density polyethylene (HDPE). They can be produced in blue or black color as requested. Our pipes are delivered in 100 m coils. The length of pipes can be increased or decreased as requested. Physical and chemical properties of the raw material we use are presented below.

INSPECTION AND TESTS | DESIRED VALUE | ACTUAL VALUE | RESULT |

PHYSICAL AND CHEMICAL PROPERTIES			
Color	Blue / Black	Blue, Black	APPROPRIATE
Density (g/cm ³) (23 °C)	> 0.940	0.954	APPROPRIATE
Melting Coefficient (gr/10 min) (190 °C / 5 kg)	>0.15	0.30	APPROPRIATE
Elongation at Break (%)	> 375	700	APPROPRIATE
Breaking Strength (N/mm ²)	>24	25	APPROPRIATE

	QUALITY MANAGEMENT SYSTEM	DOC.NO:F P14 01 DATE OF ISSUANCE:01.01.2005 REV:0 PAGE: 1
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Ø 75 MM SINGLE WALLED PIPE DIMENSION :

INSPECTIONS	
Wall thickness (mm)	1.0
External diameter (mm)	75.00
Internal Diameter (mm)	62.10

Ø 75 mm SINGLE WALLED PIPE PROPERTIES:

Our pipes are made of high density polyethylene (HDPE). They can be produced in blue or black color as requested. Our pipes are delivered in 100 m coils. The length of pipes can be increased or decreased as requested. Physical and chemical properties of the raw material we use are presented below.

[INSPECTION AND TESTS | DESIRED VALUE ~ | ACTUAL VALUE | RESULT

PHYSICAL AND CHEMICAL PROPERTIES

Color	Blue, Black	Blue, Black	APPROPRIATE
Density (g/cm ³) (23 °C)	> 0.940	0,954	APPROPRIATE
Melting Coefficient (gr/10 min) (190 °C / 5 kg)	>0.15	0.30	APPROPRIATE
Elongation at Break (%)	> 375	700	APPROPRIATE
Breaking Strength (N/mm ²)	> 24	25	APPROPRIATE



Permanent blown corrugated pipe end and rear plug material properties

COMMERCIAL NAME PETİLEN YY S 0464

PRODUCT GUARANTEE VALUES
TEST

TEST	UNIT	VALUE	METHOD
Melt Flow Rate (MFR) (2160 g, 190°C)	g/10d	0.25 - 0.45	ASTM D-1238
Density (23°C) TYPICAL VALUES	g/cm³	0.962 - 0.966	ASTM D-1505 ASTM D-638
Tensile stress			ASTM D-747
Flow stress	kg/cm²	270	
Breaking stress	kg/cm²	375	ASTM D-256
Elongation at break	%	1115	
Flexural Strength	kg/cm²	9850	ASTM D-1693
Izod Impact Strength	kgcm/cm	60	
Environmental Stress Cracking Resistance (F50) ASTM D-638 ASTM D-638	hour	15	

PRODUCT FORM

Pellet

PACKAGING

25 kg FFS (Form Fill Seal) white PE bags or 1400 kg big-bags.

STORAGE CONDITIONS

Closed and dry places away from sun with a temperature below 50°C

USES

Blow molding (large volume cups, gas oil barrels, large toys etc. for chemical substances)

SAFETY INFORMATION FORM NO.: UR.15-BF-00002.0

NOTE: Typical values are the average results of the analyses made in Petkim's laboratories, provided for information only.

This product has "certificate for production of the material in contact with foodstuffs" as received by Ministry of Agriculture and Rural Affairs dated 21.02.2007 and no. 35-00213-00009-0

SİNEMSAN PLASTİK		ÜRÜN TEST RAPORU ÜRÜN TECHİZATLARI (TS EN 61386-22)		Rapor Tarihi
				Rapor No
Ürün Adı:20/10..... mm, Esnek/Kendini toparlayan Ürün Kodu: Polietilen Üretici Firma: Sinemsan Plastik Müşteri Adı: Hamme: Polietilen Test Standardı: TS EN 61386-22 Lot Numarası: Üretim Tarihi:I..../2014 Üretim Tipi: 2331 3030 -010 (Siyah) 2331 3030 -020 (turuncu) 3331 3030 -010 (Siyah) 3331 3030 -020 (turuncu)				
Deney adı	Deney Standardı	Standartaki Limit Değerler	Analiz Sonuçları	Analiz Değerlendirme
Göze kontrol:	61386-1	Yüzeyde form bozukluğu, çapak vs. olmamalıdır.		UYGUN
				UYGUN DEĞİL
İşaretlemenin ve etiketin kontrolü:	61386-1	Borunun marka, sınıf ve model yazıları okunaklı olmalıdır.		UYGUN
	61386-22			UYGUN DEĞİL
Dış çapın ve et kalınlığının ölçülmesi:	61386-1	Ø 16 : min: 15,7 / max:16,0 Ø 20 : min: 19,7 / max:20,0 Ø 25 : min: 24,6 / max:25,0 Ø 32 : min: 31,6 / max:32,0 Ø 40 : min: 39,6 / max:40,0 Ø 50 : min: 49,5 / max:50,0 Ø 63 : min: 62,4 / max:63,0 Ø 75 : min: 74,4 / max:75,0	Dış Çapı : ...19,83... mm Et Kalınlığı: ...2,4..... mm	UYGUN UYGUN DEĞİL
Sıkıştırma deneyi:	61386-1	D1: dış çap D2: sıkıştırılmış dış çap D3: 15dk sonraki dış çap (D1%25xD1) ≥ D2 ≥ (D1-% 50xD1) D3 ≥ (D1 - %10xD1) F ≥ 320 N F ≥ 750 N	F: ...750... N F: ... N	UYGUN UYGUN DEĞİL
Bükme deneyi:	61386-1	Numunelerde hasar oluşmamalı.		UYGUN
Anma dış çapın 30 kat	61386-22	İç master geçmelidir.		UYGUN
Bükme çapı:.....mm				UYGUN DEĞİL
Süre 2 h				
Deney sıcaklığı:		-15±2 °C		
Darbe deneyi:	61386-1	Çatlama ve kırılma oluşmamalı.		UYGUN
Düşme h :..... mm	61386-22	Tip 2331 3030 1 kg Tip 3331 3030 2 kg		UYGUN DEĞİL
Kütle kg:				
200 ± 5 mm uzunluk				
Deney sıcaklığı:		-15±2 °C		
Isıya karşı dayanıklılık:	61386-1	Numuneler silindiğinde bez yapışmamalı, hasar oluşmamalı, iç master geçmelidir.		UYGUN
100 mm uzunluk.	61386-22			UYGUN DEĞİL
Etiy sıcaklığı 60 °C				
Kütle 1/2 kg Süre 24 h				
Alev dayanım deneyi:	61386-1	Alev ileten borulara uygulanmaz.		UYGUN
Alev tutma süresi:.....sn	61386-22	1kW (650°C) Alev uyandır. Sönme süresi 30 sn' yi geçmemelidir. Kağıt tutuşmamalıdır.		UYGUN DEĞİL
675 ± 10 mm numune uzunluğu.				
Deneyler TS EN 61386-1 ve 61386-22 standartlarına ve deney talimatlarına uygun yapılmıştır. Aranan deneyler ve deneylerin uygulamaları st'da belirtilmiştir.			Değerlendirmeyi Yapan Görevi : Firma Sahibi Adı Soyadı : Mustafa KARAARSLAN İmza :	

FR.038 Rev01

**BLACK SEPARATOR RAW MATERIAL VALUES****COMMERCIAL NAME : BRASKEM HDPE****PRODUCT GUARANTEE VALUES :**

TEST NAME	UNIT	VALUE	METHOD
Melt Flow Rate (MFR) (2160 g, 190°C)	g/10d	1.8 g	ASTM D-1238
Density (23°C)	g/cm ³	0.932 - 0.945	ASTM D-1505

TYPICAL VALUES

Tensile stress	180	ASTM D-638
-Flow stress kg/cm ² -Breaking stress kg/cm ² -	250	ASTM D-638
Elongation at break %	400	ASTM D-638

Flexural Strength	kg/cm ²	380	ASTM D-882
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Izod Impact Strength	Kg cm/cm	30	ASTM D-882
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Environmental Stress Cracking Resistance (F50)	hour	min. 1000	ASTM D-1693
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PRODUCT FORM : Pellet

**PACKAGING : 25 kg FFS (Form Fill Seal) white PE bags
or 1400 kg big-bags**

**STORAGE CONDITIONS : Closed and dry places away from sun with a temperature below
50°C**

USES : Extrusion and injection molding.

SINEMSAN PLASTIC	PRODUCT TEST REPORT PRODUCT EQUIPMENTS (TS EN 61386-24)			Date of Report Report No
Product Name: ... mm. Flexible				
Product Code: Polyethylene Producing Firm : SINEMSAN Customer: Raw material: Polyethylene Test Standard: TS EN 61386-24 Lot No: Production Date/.../2014 Production Type: TYPE 250 L TYPE 450 N TYPE 750 N				
Test	Test standard	Limit Values in Standard	Analysis results	Analysis Evaluation
Visual inspection:	61386-1	The surface should contain no deformation or bur etc.		"APPROPRIATE INAPPROPRIATE
Control of marking and label:	61386-1 61386-24	Brand, class and model of the pipe should be legible.		"APPROPRIATE INAPPROPRIATE
Measuring external diameter and Wall thickness:	61386-1 61386-24	0 32 : mm; ,fe / max:32,0 0 40 : min: 39,6 / max:40,0 0 50 : min: 49,5 / max:50,0 0 63 : min: 62,4 / max:63,0 0 75 : min: 74,4 / max:75,0 0 90 : min: 89,4 / max:90,0 0 110 : min: 109,4/max:110,0	External diameter:49,86 mm Wall thickness:1,52 mm	APPROPRIATE INAPPROPRIATE
Compression test: Pre-test diameter D1 post-test diameter D2 Unloaded diameter D3 200 ± 5 mm length 220mm 2 steel plates	61386-1 61386-24	D1: external diameter D2: compressed external diameter D3:(15±0.5) mm/min (D1%5xD1)ED2f(D1) D3 > (D1-%5xD1)	F:..250 N F N F' N	APPROPRIATE INAPPROPRIATE
Bend test: Nominal outside diameter 30 Bending diameter: ...mm 90 ° angle Test temperature:2 h	61386-1 61386-24	No damage should occur on samples. Internal gauge should exceed %95+1 of internal diameter -5 ± 1 °C / room temperature		APPROPRIATE INAPPROPRIATE
Impact test. Fall h :..1000,..... mm mass kg: 200 ± 5 mm length Test temperature:	61386-1 61386-24	No cracking or breaking should occur. TYPE 250 (normal) TYPE 450-750 normal (N) -5 ± 1 °C / room temperature		APPROPRIATE INAPPROPRIATE
The tests are in compliance with TS EN 61386-1 and 61386-24 standards and test instructions. Desired tests and applications are specified in st.			Title of Evaluator : Firm Owner Name Surname: Mustafa KARAARSLAN Signature :	

SINEMSAN PLASTIC	PRODUCT TEST REPORT PRODUCT EQUIPMENTS (TS EN 61386-22)			Date of Report Report No
Product name:20/10... mm, Flexible/shape maintaining Product code: Polyethylene Producer Firm: Sinemsan Plastic Customer Name: Raw material: Polyethylene Test Standard: TS EN 61386-22 Lot No: Production Date: / /2014 Production Type: 2331 3030 -010 (Black) 2331 3030 -020 (orange) 3331 3030 -010 (Black) 3331 3030 -020 (orange)				
Test	Test standard	Limit Values in Standard	Analysis Results	Analysis Evaluation
Visual inspection:	61386-1	The surface should contain no deformation or bur etc.		APPROPRIATE INAPPROPRIATE
Control of marking and label:	61386-1 61386-22	Brand, class and model of the pipe should be legible.		APPROPRIATE INAPPROPRIATE
Measuring external diameter and Wall thickness:	61386-1 61386-22	16 : min: 15,7 / max:16,0 20 : min: 19,7 / max:20,0 25 : min: 24,6 / max:25,0 32 : min: 31,6 / max:32,0 40 : min: 39,6 / max:40,0 50 : min: 49,5 / max:50,0 63 : min: 62,4 / max:63,0 75 : min: 74,4 / max:75,0	External diameter : ...19,83 mm Wall thickness: ...2,4 mm	APPROPRIATE INAPPROPRIATE
Compression test: Pre-test diameter D1 post-test diameter D2 unloaded diameter D3 200 ± 5 mm length	61386-1 61386-22	D1: external diameter D2: compressed internal diameter D3: external diameter after 15 min (D1%25xD1) S D2 £ (D1-%25xD1) S D3 £ (D1-%25xD1) S	F:...750 N F- N	APPROPRIATE INAPPROPRIATE
Bend test: Nominal outside diameter 30 Bendinn diameter:mm time 2 h	61386-1 61386-22	No damage should occur in samples Should have internal gauge -		UYGUN UYGUN DEĞİL
Impact test: Fall h mm Mass ka: 200 + 5 mm length Test temperature:	61386-1 61386-22	No cracking and breaking should occur. Type 2331 3030 1 kg Type 3331 3030 2 kg -15±2°C		APPROPRIATE INAPPROPRIATE
Heat resistance: 100 mm length Oven temperature 60 °C Mass 1/2 kg Time 24 h	61386-1 61386-22	Cloth should not stick when the samples are wiped, no damage should occur; internal gauge should be present.		APPROPRIATE INAPPROPRIATE
Flame resistance test Flame holding time- sec 675 ± 10 mm sample length	61386-1 61386-22	Not applicable to flame conducting pipes. 1 kW (650°C) flame is applied. Put out time should no exceed 30 sec. Paper should not catch fire.		APPROPRIATE INAPPROPRIATE
The tests are in compliance with TS EN 61386-1 and 61386-22 standards and test instructions. Desired tests and applications are specified in st			Evaluator: title : Firm Owner Name : Mustafa KARAARSLAN Signature:	-



Approved Supplier



PROPERTIES OF PVC CENTRAL DILATATION PLUGS USED IN TEMPORARY AND PERMANENT ANCHORAGES

APPLICATIONS :

Soft pvc compounds produced as Series A have a wide range of uses in electric, construction, textile (shoe sole and accessories), agriculture, garden irrigation hoses and equipment), automotive (control cables, inner and pouter equipment and accessory parts), white goods (fridge gasket and cords) furniture (table, cabinet side bands). There are two types are applications including injections and extrusions. They are not included in Resc.h scope. This document was prepared in special laboratories by macroplast and was issued for preliminary information and easy workability of the materials during process.

PROPERTIES	TEST METHOD	UNIT	TEST RESULT
CODE	A-60		-
HARDNESS	İci solvic pcc 152	Shore-A	80
VISIBLE SHAPE	Granule	-	-
COLOR	-	-	TRANSPARENT
SPECIFIC GRAVITY	ASTM D 792	Gr/cm ³	1,21
BREAKING STRESS	İci solvic pcc 160/67	Kg/cm ²	150
% 100 ELONGATION STRENGTH	İci solvic pcc 160/67	* Kg/cm ¹⁻	50
ROHS COMPATIBILITY	IEC 62321-111/116/FIDS ICP-OES	-	YES
WORKING TEMPERATURES	Temperature 115-125-145-155-165	°C	160
ELONGATION AT BREAK	İci solvic pcc 160/67	%	200

Note: PVC Compound is packaged in 25 Kg PP bags and should be stored at cool and dry places. The packages (bags) are water impermeable, however should not come to contact with water and moisture. No dehumidification is required before use. •

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TELEFON : 90-212-549 5814 90-212-549 5815
FAKS t 90-212-549 99 68
WEB : www.makroplast.net
e-mail •' info@makroplast.net



Approved Supplier

Soft PVC Compounds

APPLICATIONS :

Soft pvc compounds produced as Series A have a wide range of uses in electric, construction, textile (shoe sole and accessories), agriculture, garden irrigation hoses and equipment's), automotive (control cables, inner and pouter equipment and accessory parts), white goods (fridge gasket and cords) furniture (table, cabinet side bands). There are two types are applications including injections and extrusions. They are not included in Resc.h scope. This document was prepared in special laboratories by macroplast and was issued for preliminary information and easy workability of the materials during process.

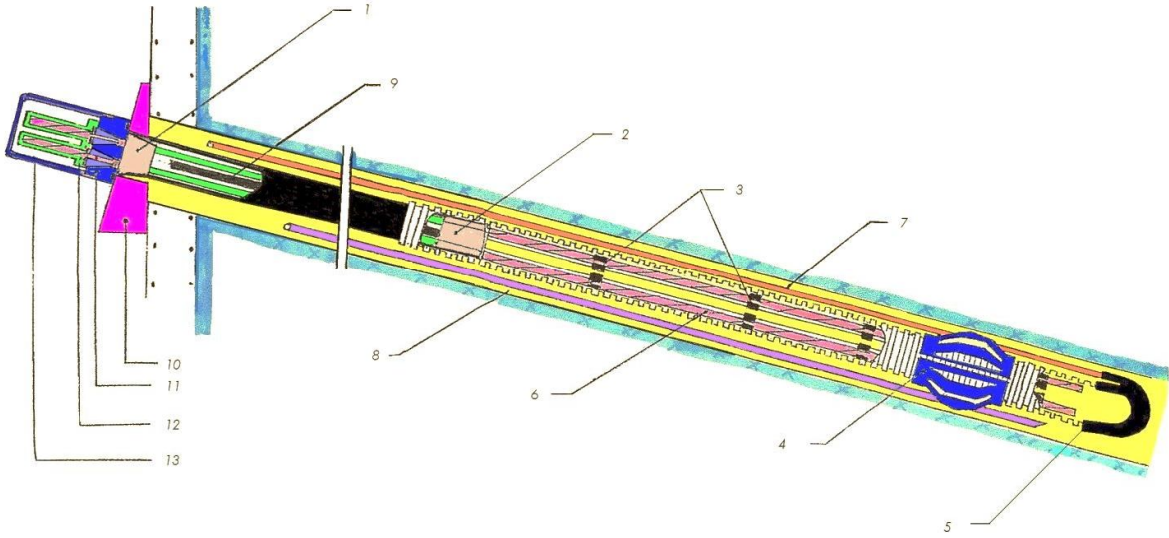
PROPERTIES	TEST METHOD	UNIT	TEST RESULT
CODE	A-30	-	-
HARDNESS	İci solvic pcc 152	Shore-A	60
VISIBLE SHAPE	Granule	-	-
COLOR	-	-	TRANSPARENT
SPECIFIC GRAVITY	ASTM D 792	Gr/cm ³	1,17
BREAKING STRESS	İci solvic pcc 160/67	Kg/cm ²	158
% 100 ELONGATION STRENGTH	İci solvic pcc 160/67	* Kg/cm*	50
ROHS COMPATIBILITY	IEC 62321-111/116/FIDS ICP-OES	-	YES
WORKING TEMPERATURES	Temperature 95-115-135-145-160	°C	160
ELONGATION AT BREAK	İci solvic pcc 160/67	%	200

Note: PVC Compound is packaged in 25 Kg PP bags and should be stored at cool and dry places. The packages (bags) are water impermeable, however should not come to contact with water and moisture. No dehumidification is required before use. •

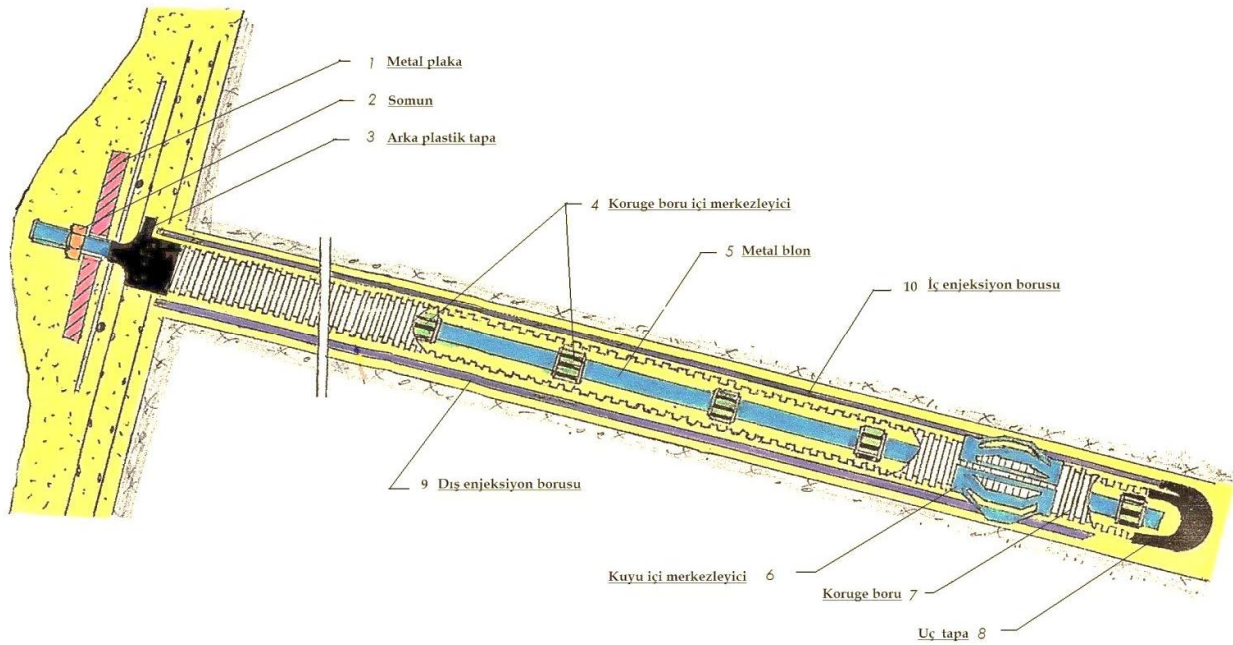
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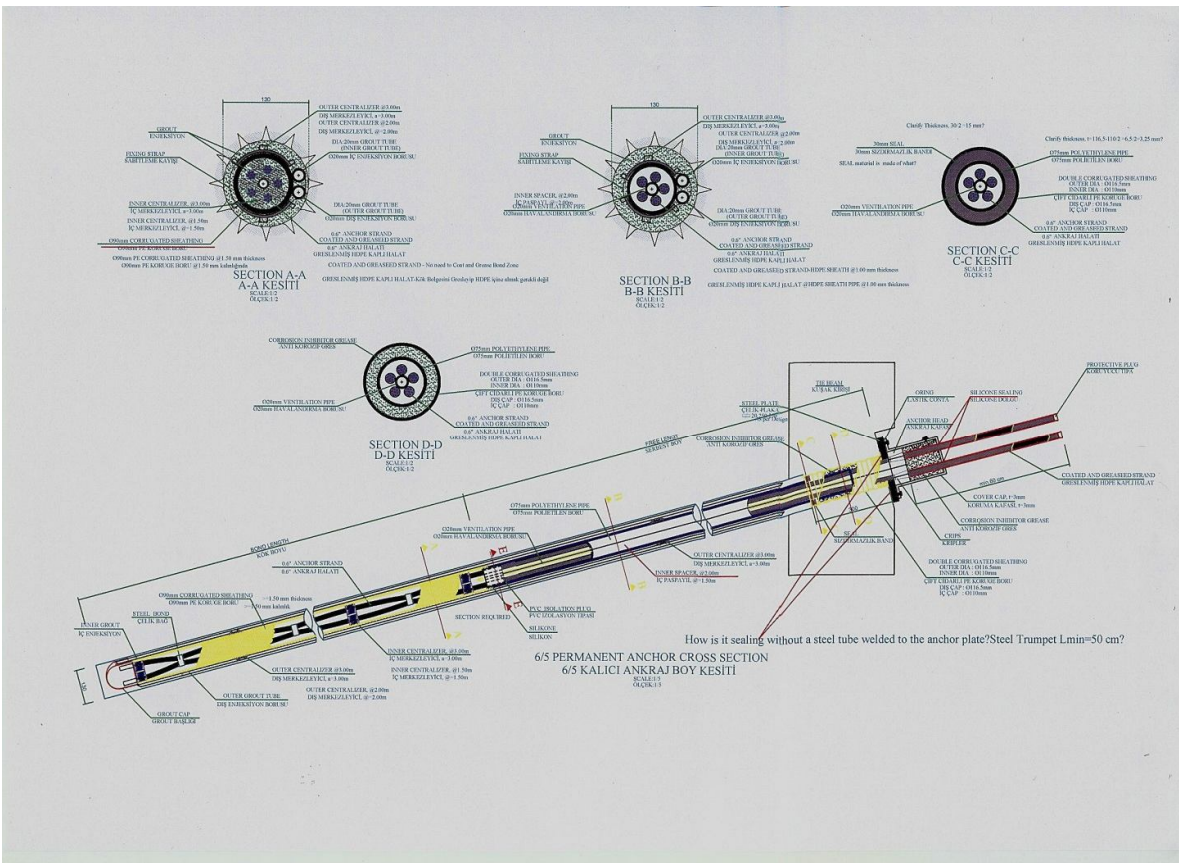
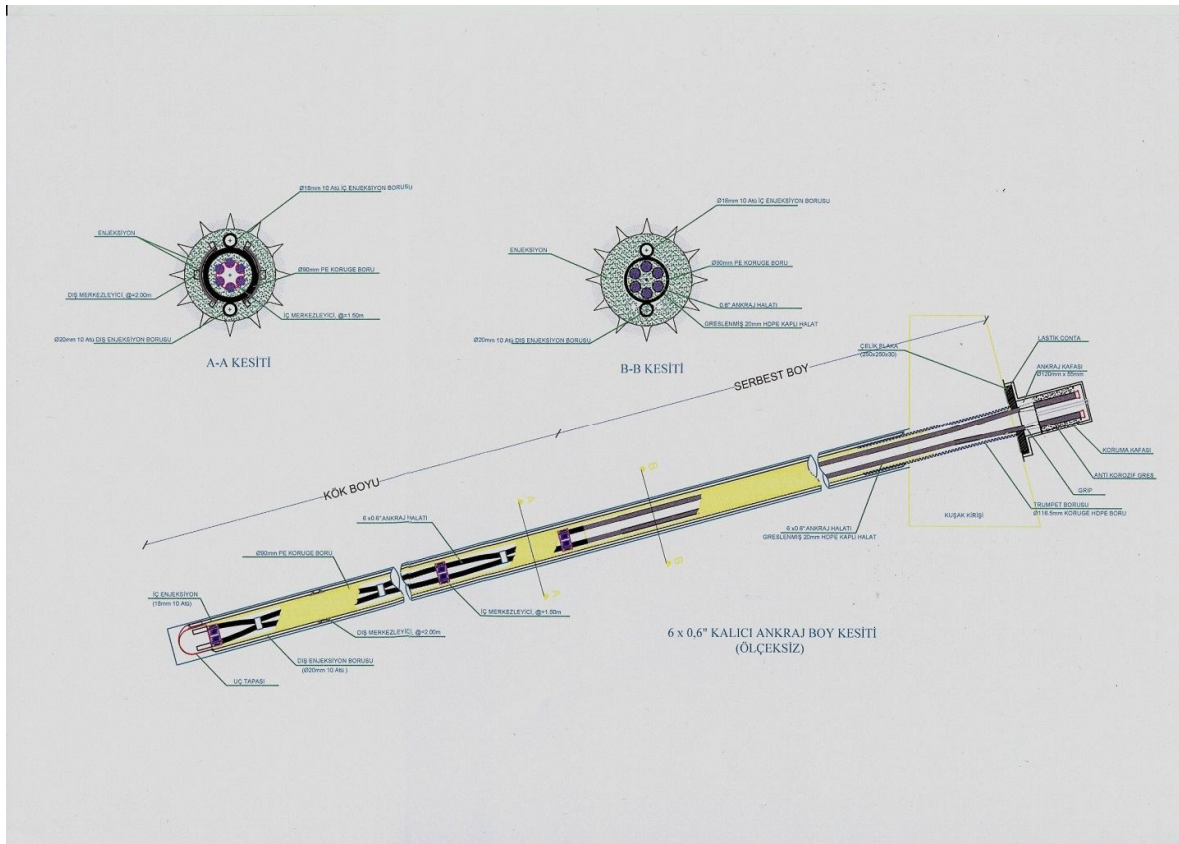
PERMANENT ANCHORAGE

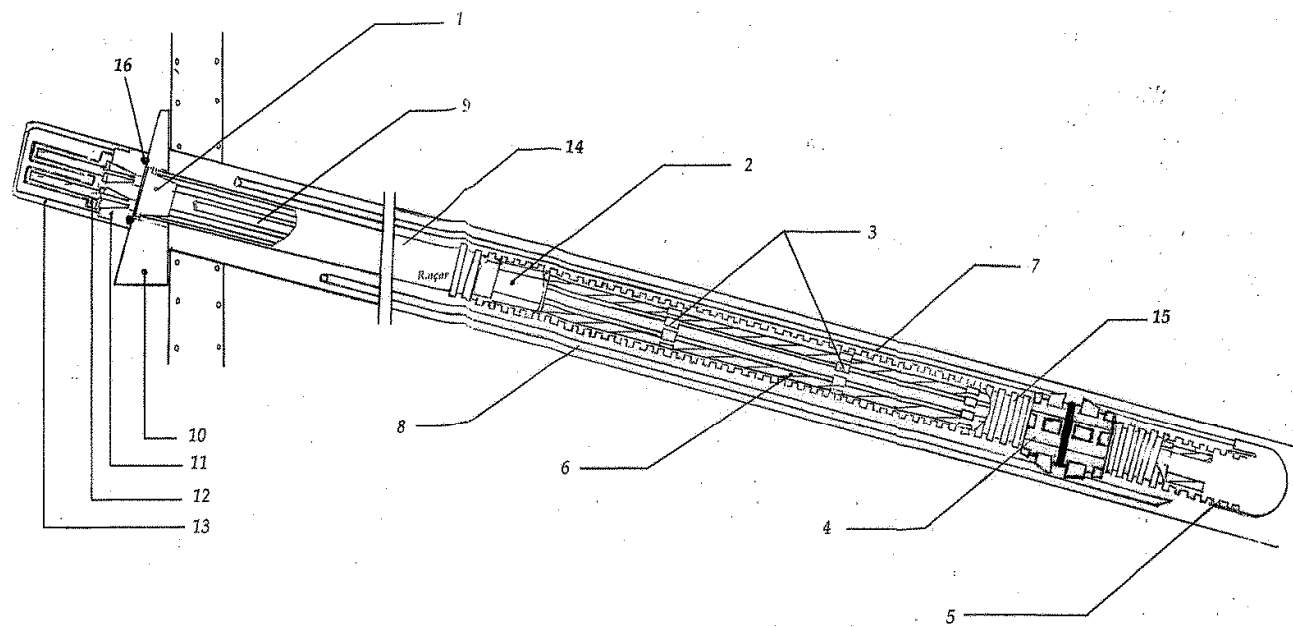


PERMANENT BLOWN



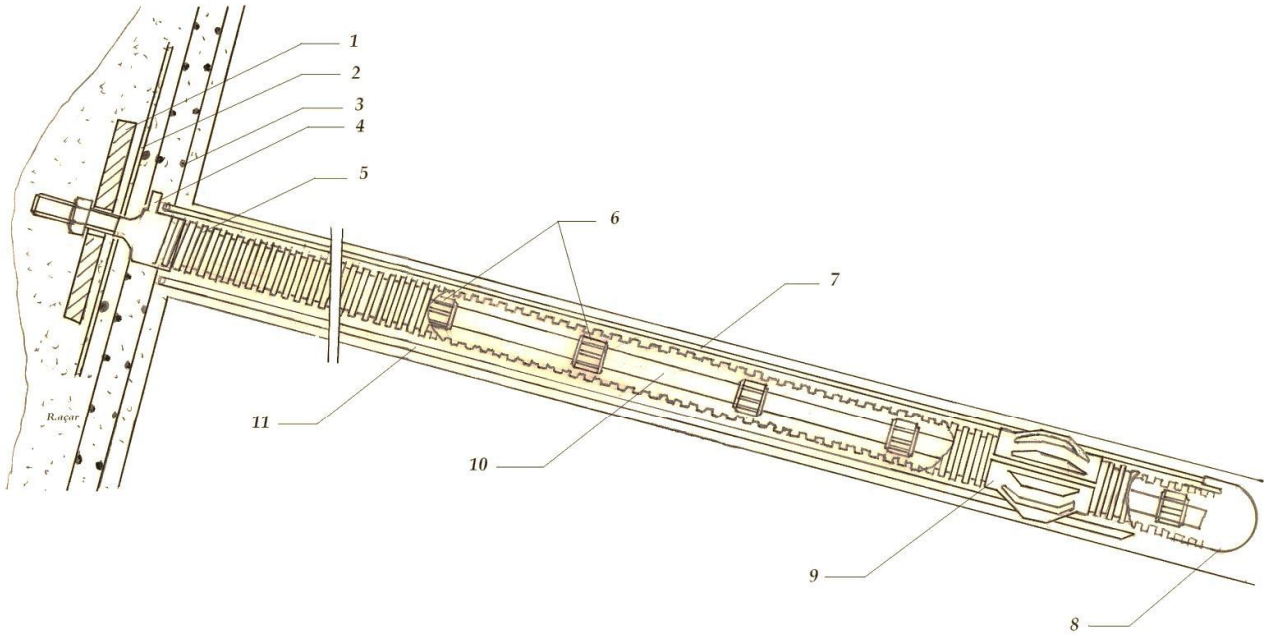
1. Metal Plate
2. Nut
3. Rear Plastic Plug
4. Corrugated Pipe Centraliser
5. Metal Blown
6. Well Centraliser
7. Corrugated Pipe
8. End Plug
9. External Injection
10. Internal Injection Pipe





Ramazan AÇAR

- 1- SUB ANCHORAGE HEAD INSULATION PLUG
- 2- CENTRAL INSULATION PLUG
- 3- INTERNAL SEPERATOR
- 4- WELL CENTRALISER
- 5- END PLUG
- 6- STELL ROPES
- 7- INTERNAL INJECTION HOSE
- 8- EXTERNAL INJECTION HOSE
- 9- AIR DISCHARGE HOSE
- 10- ANGULAR ANCHORAGE PLATE
- 11- ANCHORAGE HEAD
- 12- ANCHORAGE HEAD OIL CAP
- 13- ANCHORAGE HEAD PROTECTION CAP
- 14- FREE ZONE HOSE
- 15- CORRUGATED PIPE
- 16- O-RING



Ramazan AÇAR

1. Metal Plate
2. Nut
3. Rear Plastic Plug
4. Corrugated Pipe Centraliser
5. Metal Blown
6. Well Centraliser
7. Corrugated Pipe
8. End Plug
9. External Injection
10. Internal Injection Pipe

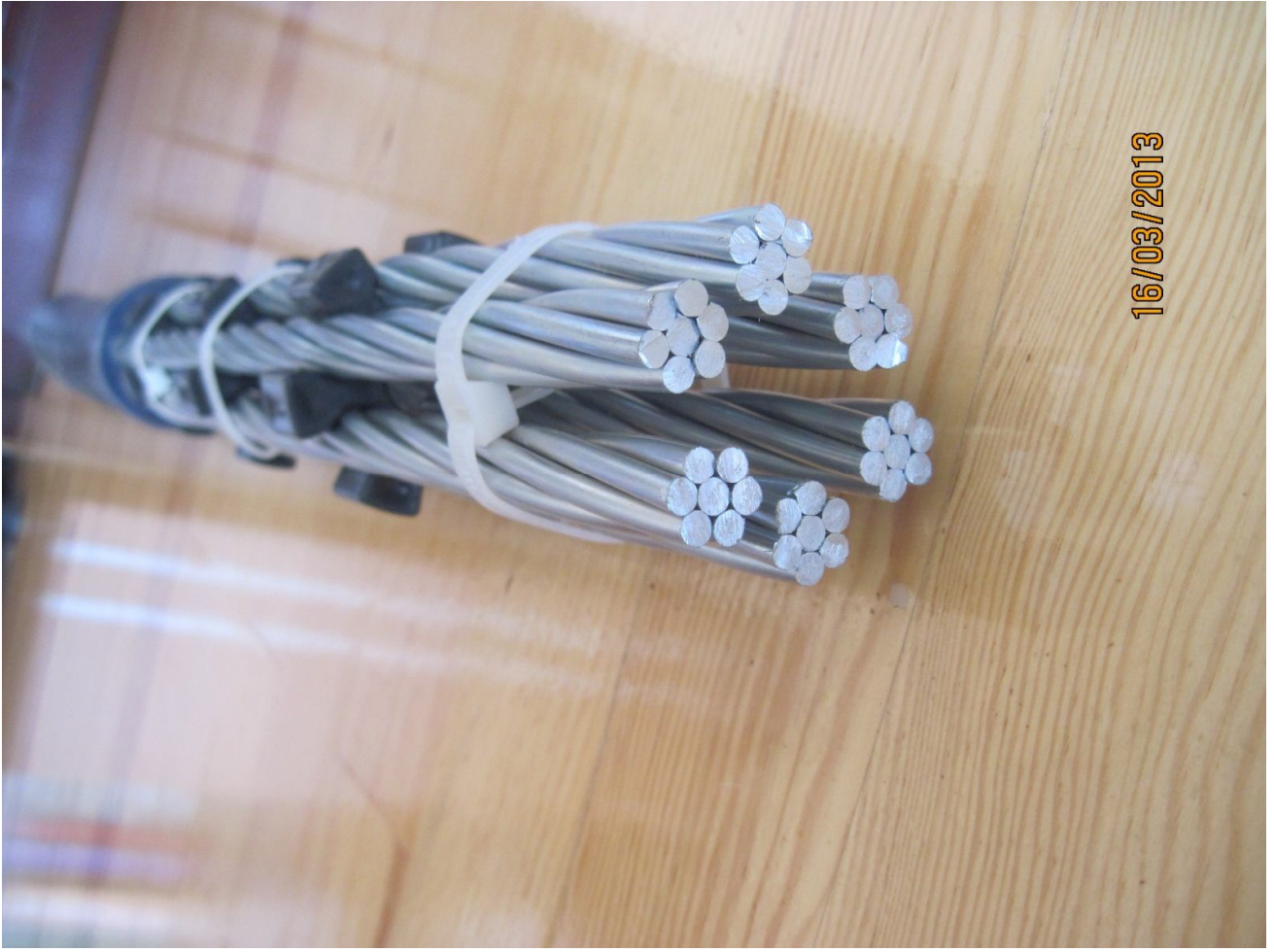
PERMANENT BLOWN CONSTRUCTION





PERMANENT BLOWN CONSTRUCTION





TEMEL TAŞ İNŞAAT MARMARAY YENİKAPI





Moscow – Dekra İnşaat



26/02/2013

KASKTAŞ AŞ. EUROASIA TUNNEL





27/03/2013 15:27



04/06/2010 17:12



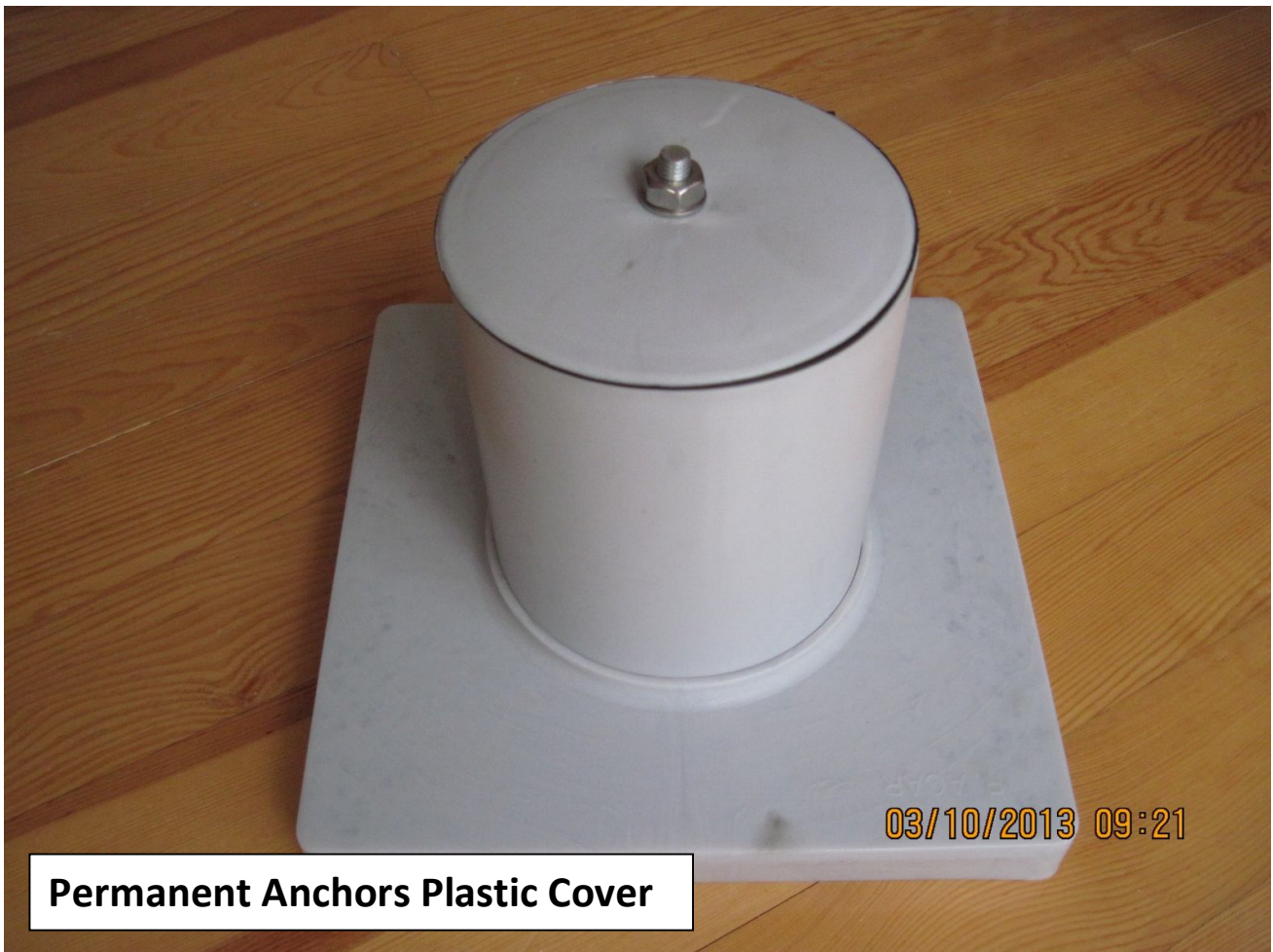
PERMANENT ANCHORAGE INSTALLATION







Permanent Anchors Automatic Steel Wire Rope



Permanent Anchors Plastic Cover



EURASIA TUNNEL-CONSTRUCTION CENTER-KASKTAŞ



Dekra - Moscow











ERMIT ENGINEERING IZMIR NEW FAIR



ERMIT ENGINEERING IZMIR NEW FAIR





GEO EKSPERT LTD ŞTi, Ankara



GEO EKSPERT LTD ŞTİ, Ankara



KASKTAŞ AŞ. EUROASIA TUNNEL



MARMARAY YENİKAPI - GAMA – NUROL – TEMELTAŞ



TOKI AKÇAABAT PRIMARY SCHOOL-İKSA ENGINEERING-TRABZON





ÇAMLICA GREAT MOSQUE-PI GEOTEKNİK-İSTANBUL

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- KASKTAŞ AŞ. EUROASIA TUNNEL
- CENGİZ İNŞAAT HIGH-SPEED TRAIN İSTANBUL LINE
- İÇTAŞ İNŞAAT HIGH-SPEED TRAIN İSTANBUL LINE
- BELEB İNŞAAT HIGH-SPEED TRAIN İSTANBUL LINE
- İKSA ENGINEERING DENİZLİ BUS TERMINAL
- KASKTAŞ CONSTRUCTION SAUDI ARABIA
- GEPEKSPERT LTD. RFM DIALYSIS CENTER
- ALTEM CONSTRUCTION TOKI NORTHERN ANATOLIA

PROJECTS

- ÖZKAN GEOTEKNİK ANKARA
- TOPRAK GROUP CONSTRUCTION TOKI NORTHERN

ANATOLIA ANKARA

- SUMMA TOURISM INVESTMENT CO.(LIBYA).
- ÇAĞRI OCCUPATIONAL SAFETY LTD.
- TGC CONSTRUCTION LTD. İSTANBUL
- DOĞUSAN COMPANY ADNAN MENDERES AIRPORT
- ÇALKAN CONSTRUCTION
- PALET CONSTRUCTION
- SERKAN CONSTRUCTION TOKI AKÇAABAT TRABZON
- Pİ GEOTEKNİK ÇAMLICA GREAT MOSQUE CONSTRUCTION
- ZEMİNTAŞ CONSTRUCTION İSTANBUL
- TOKER CONSTRUCTION İSTANBUL
- KASKTAŞ CO. SEYRANTEPE SITE
- ERMIT ENGINEERING İZMİR NEW FAIR AREA
- GEOTEM ENGINEERING GARANTI BANK ANKARA
- ALTYAPI TEMEL ENGINEERING İSTANBUL