



شركة روافد الحقول للاستثمار
Roafd Alhqol Investment Co.



RHC

COMPANY PROFILE



Scan for website

www.roafdalhqol.com

CHAIRMAN MESSAGE

رسالة الرئيس



In line with its pioneering and leading role, Roafd Al-Hqol Investment Company operates in the field of biotechnology and petrochemical product manufacturing in the Kingdom of Saudi Arabia and the Gulf region. We have charted a clear path, meticulously selecting a team renowned for safety, expertise, quality, and efficiency. Our unwavering commitment to the trust of our clients is the constant objective and reason for our success. This is achieved through continuous training and development of our capabilities, applying the highest quality standards, and providing technical support for our products, allowing us to serve the community and gain the loyalty of our customers.

إيماناً بالدور الريادي والقيادي الذي تقوم به شركة روافد الحقول للاستثمار في صناعة المنتجات البيتومينية والبتروكيمياوية في المملكة والخليج ، رسمنا طريقاً واضحاً مع فريق عملنا المنتقى بعناية فائقة من حيث السلامة والخبرة والجودة و الكفاءة حيث تكون ثقة عملائنا هي الهدف الدائم وسبب تفوقنا ونجاحنا ، وذلك من خلال التدريب والتطوير المستمر لكافة امكانياتنا وبتطبيق أعلى معايير الجودة والدعم الفني لمنتجاتنا للقيام بدورنا في خدمة المجتمع وكسب ثقة عملائنا .



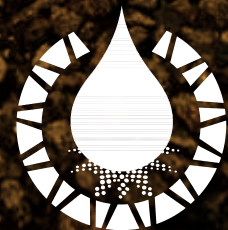
ABOUT US

Roafd Al-Hqol Investment Company is a leading company and one of the largest manufacturers in the Kingdom of Saudi Arabia of enhanced bitumen products, insulation materials, and chemicals. We have met the standards to obtain most quality specifications and accreditations within the Kingdom and beyond. Our dedication has been recognized by the Ministry of Transportation, granting us approval on the 28th of Shawwal 1437 AH. Subsequently, we have been accredited by various authorities, including obtaining the ISO 9001:2015 International Quality Management System certification. We continually work to harness our expertise and the best technologies to ensure our products meet the highest international standards.

نبذة عن الشركة

شركة روافد الحقول للاستثمار هي الشركة الرائدة وواحدة من أكبر الشركات المصنعة في المملكة العربية السعودية لمنتجات البيتومين المحسن والعوازل والمواد الكيميائية وقد استوفينا المعايير للحصول على معظم مواصفات الجودة والاعتمادات داخل المملكة وخارجها , حيث تم التعرف على تفانينا من قبل وزارة النقل ومنحنا الموافقة في الثامن والعشرين من شهر شوال عام ١٤٣٧ هـ وبعد ذلك تم تعميمنا من جهات مختلفة بما فيها الحصول على شهادة ادارة نظام الجودة العالمية ISO 9001 : 2015 .

نعمل بشكل دائم لتسخير الخبرات وأفضل التقنيات للوصول بمنتجاتنا الى أعلى المعايير العالمية.



OUR VISION

We strive to enhance our position and become a global company through the quality of our products and the trust of our customers.

رؤيتنا

نسعى لتعزيز مكانتنا لنصبح شركة عالمية من خلال جودة منتجاتنا وثقة عملائنا.



OUR GOALS

To become the most reliable, powerful and largest company.

Focus on customer satisfaction.

Developing the skills and capabilities of the company's employees.

Participation in community service

أهدافنا

أن نصبح أكثر الشركات موثوقية، قوة وأكبر حجمًا.
التركيز على رضا العملاء.

تطوير مهارات وقدرات موظفي الشركة.
المشاركة في خدمة المجتمع



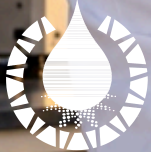
In our factories we work as a group, management, engineers and technicians.

We are committed to providing our customers with timely, effective and high quality products and services. This will be achieved through continuous development and application of the latest advanced technologies. Extensive rigorous training of manpower to improve the quality of our products and services to satisfy customers and to become more competitive in the global market. The quality policy must be realized by the management and all employees in the implementation of the ISO 9001: 2015 Quality Management System which covers all operations of the company and applies to all employees of the company.

في مصانعنا، نعمل كفريق متكامل، إدارة ومهندسين وفنيين.

نحن ملتزمون بتقديم منتجات وخدمات ذات جودة عالية وفعالية وفي الوقت المناسب لعملائنا. سيتم تحقيق ذلك من خلال التطوير المستمر وتطبيق أحدث التقنيات المتقدمة. وسيتم تنفيذ تدريب شامل ومكثف للعاملين لتحسين جودة منتجاتنا وخدماتنا لإرضاء العملاء ولنصبح أكثر تنافسية في السوق العالمية. يجب أن تتجسد سياسة الجودة من خلال إدارة الشركة وجميع الموظفين في تنفيذ نظام إدارة الجودة ISO 9001: 2015، والذي يغطي جميع عمليات الشركة وينطبق على جميع موظفيها.

نظام إدارة الجودة QUALITY SYSTEM



QUALITY MANAGEMENT

Our products are in strict accordance with the specifications of the Saudi Ministry of Transport, Saudi Standards, ASTM, AASHTO and other specially developed international specifications and standards. We employ a high quality quality control department to ensure that our products meet the specifications we promise to deliver.

إدارة الجودة

تتوافق منتجاتنا بشكل صارم مع مواصفات وزارة النقل السعودية والمعايير السعودية و ASTM و AASHTO وغيرها من المواصفات والمعايير الدولية المطورة خصيصًا. نحن نوظف قسمًا لمراقبة الجودة العالية للتأكد من أن منتجاتنا تلبى المواصفات التي نعد بتقديمها.



TQM Six Basic Concepts

ستة مفاهيم أساسية لإدارة الجودة الشاملة

1. Leadership
2. Customer Satisfaction
3. Employee Involvement
4. Continuous Process Improvement
5. Supplier Partnership
6. Performance Measures



١. القيادة
٢. رضا العملاء
٣. مشاركة الموظفين
٤. تحسين مستمر للعمليات
٥. شراكة مع الموردين
٦. مؤشرات الأداء



TESTINGS AND THEIR METHODS

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Test Number	Name of test methods	Reference to test methods	Device Name
Test No.	Penetration Test	ASTM D5 -2006 AASHTO T 49-2010	Penetration
Test No.	Ductility Test	ASTM D113-1999 AASHTOT 51-2006	Ductility
Test No.	Loss on Heating Test	ASTM D 1754- 2002 AASHTOT 47- 2005	RTFO (ROLLING THIN FILM OVEN)
Test No.	Softening Point Test	ASTM D 36- 95 AASHTOT53- 06	Softening point
Test No.	Flash and Fire Points Test	ASTM D 92- 2005 AASHTO T 48- 2005	Flash point
Test No.	Fractional Distillation	ASTM D-402	Distillation
Test No.	RTFO	AASHTO:T 240-13 ASTM: D-2872-04	RTFO (ROLLING THIN FILM OVEN)
Test No.	Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	AASHTO:T315-12	DSR (Dynamic Shear Rheometer)
Test No.	Viscosity	AASHTO :T 316-13	Rotational Viscometer
Test No.	Bending Beam Rheometer	AASHTO T313-02	BBR

Standard Method of Test for Flash and Fire Points by Cleveland Open CupAASHTOT 48



The flash point is used in shipping and safety regulations to define flammable and combustible materials. AASHTO specifications M 320 and MP 19 require that the flash point of asphalt binder be at least 230°C (446°F).



DUCTILITY OF BITUMINOUS MATERIALS (ASTM D 113-86)



Purpose: The ductility of bituminous material is measured by the distance to which it will elongate before breaking when two ends of a briquette specimen of the material; are pulled apart at a specified speed and at a specified temperature. Unless otherwise specified, the test shall be made at a temperature of 25K 0.5 XC (77 X 0.9 KF) and with a speed of S cm per minute plus or minus 5.0 %.



Penetration Test AASHTOT 49



Objectives: The penetration test is used to measure consistency of bituminous materials expressed as the distance in tenths of millimeter that a standard needle vertically penetrates a sample of the materials under known conditions of loading, loading time and Temperature.

Standard Method of Test for Viscosity Determination of Asphalt Binder Using Rotational Viscometer- AASHTO T 316

Evaluation of temperature and viscosity relationships allow suppliers and purchasers to determine the minimum temperatures necessary for transporting an asphalt binder while maintaining the fluidity to pump the binder from its containing vessel. The rotational viscometer is also used to select mixing and compaction temperatures for mix design.



Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)



The Strategic Highway Research Program (SHRP) was established by Congress in 1987 to conduct a 5-year \$150 million research program to improve the durability and performance of asphalt materials. The final product of the SHRP asphalt research program was a new system referred to as Superpave (Superior Performing asphalt Pavements). The performance-graded (PG) binder suite of tests is a component of the Superpave system. Arguably one of the most important tests in the PG specification, the DSR test, is used to determine the complex shear modulus and phase angle of asphalt at temperatures ranging from 3 to 88°C. In accordance with AASHTO M 320, the test is performed at 10 radians/second. This loading cycle simulates a wheel passing over the pavement surface at 55 mph. The complex shear modulus and phase angle together are used to characterize the binder at high and intermediate temperatures in order to determine the performance grade.



a Moving Film of Asphalt Binder (Rolling Thin Film Oven Test) AASHTO T 240



The rolling thin-film oven (RTFO) is used in conjunction with AASHTO M 320 and AASHTO R 29 to determine or verify the performance grade (PG) of an asphalt binder. The residue from the RTFO is tested in the DSR (AASHTO T 315) and undergoes long-term conditioning in accordance with AASHTO R 28. The RTFO conditioning process simulates the condition of the asphalt binder immediately after the pavement is constructed.



Pressurized Aging Vessel (PAV) AASHTO 28



This practice is used to simulate 5 to 10 years of in-service aging of asphalt binder. It is used in conjunction with AASHTO M 320 and AASHTO R 29 to condition samples for further testing in the Dynamic Shear Rheometer (AASHTO T 315), Bending Beam Rheometer (AASHTO T 313), and the Direct Tension Test (AASHTO T 314). PAV conditioning is an important step in determining the performance grade (PG) of an asphalt binder. Samples are typically conditioned in the rolling thin-film oven test prior to PAV conditioning. This procedure produces no test results. It is utilized to condition the asphalt material so that it can be utilized for other test procedures.

Bending Beam Rheometer AASHTO AASHTO T 313-02

The ATS Bending Beam Rheometer (BBR) has been engineered to perform flexural tests on asphalt binder and similar specimens per ASTM D6648-01 and AASHTO T313-02.

These tests, initially developed by the Strategic Highway Research Program (SHRP), consist of a constant force being applied to a specimen in a chilled fluid bath in order to derive specific rates of deformation at various temperatures. A complete BBR system consists of a fluid bath base unit, a three-point bend test apparatus which is easily removed from the base unit for specimen loading and unloading. An external cooling unit with temperature controller, and a calibration hardware kit with carrying case. Additionally, the BBR has recently been redesigned according to the latest revisions of the relevant ASTM and AASHTO specifications. This new design includes updated and improved software as well as features that make the BBR safer, easier, and more accurate.



BITUMIN PRODUCTS

1- Cut-Back Bitumin

MC-30	MC-250
MC-3000	RC-70
RC-800	RC-250
MC-1	MC-70
MC-800	RC-2
	RC-3000



2- Polymer Modified Bitumen (PMB)

PG	Percentage%	Polymer Tybe
70-10S	4%	Crumb Rubber
64-10H	4%	Crumb Rubber
76-10S	8%	Crumb Rubber
70-16	8%	Crumb Rubber
64-10H	1.8%	SBSLG 411
70-10S	1.8%	SBSLG 411
70-10H	3%	SBSLG 411
70-10V	4.2%	SBSLG 411
76-10S	3%	SBSLG 411
76-16	3%	SBSLG 411
76-10H	4%	SBSLG 411

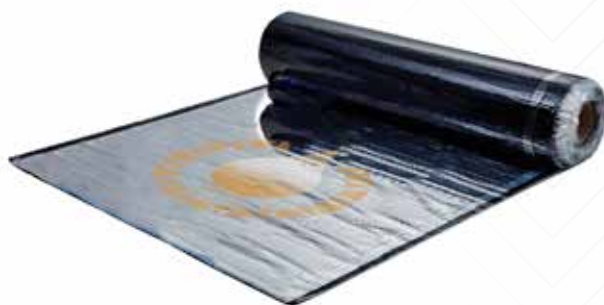


3- Bituminous waterproofing roll products and bituminous paints

٣- منتجات لفات العزل المائي البيتوميني والدهانات البيتومينية

SBS, APP Modified Membrane
Oxidized Membrane
Self Adhesive Membrane
Protection Board

لفات بيتومينية معدلة بالبوليمر
فات بالبيتومين المؤكسد
لفات ذاتية اللصق
الواح حماية



4- Bituminous & Acrylic Coatings

٤- الدهانات البيتومينية والاكريليك



Bituminous & Acrylic Coatings

Oxidized Bitumen 90\15	Blown asphalt 90\40
Oxidized Bitumen 95\25	Oxidized Bitumen 90\40
Acrylic	Primer D41
Emulsion	Blown Bitumen 105\35
Oxidized Asphalt 105\15	Oxidized Bitumen 115\15
Blown Bitumen 105\35	Damp Proof



5- Products of reflective traffic signs and road signs

٥- منتجات اللوحات المرورية ولوحات الطرق

We harness experiences and gather capabilities in the field of manufacturing and innovating safety signs of all kinds to develop and serve traffic and road safety systems and signs because of their important role in raising the level of safety for road users so that our roads become one of the safest roads in the world.

نحن نستثمر الخبرات ونجمع القدرات في مجال تصنيع وابتكار علامات السلامة من جميع الأنواع لتطوير وخدمة أنظمة وعلامات سلامة المرور والطرق بسبب دورها الهام في رفع مستوى السلامة لمستخدمي الطرق، حتى تصبح طرقنا واحدة من أكثر الطرق أماناً في العالم.

Reflective road signs
Reflective safety panels
Reflective traffic panels
Reflective solutions

علامات الطرق العاكسة
لوحات السلامة العاكسة
لوحات المرور العاكسة
الحلول العاكسة



عبور حيوانات
RIDDEN ANIMAL
PATH



عبور الدراجات الهوائية
CYCLE PATH



طريق للمشاة
FOOT PATH



إتجاه السير لليمين واليسار
PASS THIS SIDE



أمامك جزيرة الزم
اليمين او اليسار
PASS EITHER SIDE



إلزم اليسار
PASS LEFT SIDE



حيوانات
ANIMAL CROSSING



منحدر خطر
DESCENT



مرتفع خطر
ASCENT



صخور متساقطة
FALLING ROCKS



كثبان رملية
SAND DUNES



أقصى ارتفاع
LOW CLEARANCE



موقف حافلات
BUS STOP



موقف
PARKING



منتزه
PICNIC SITE



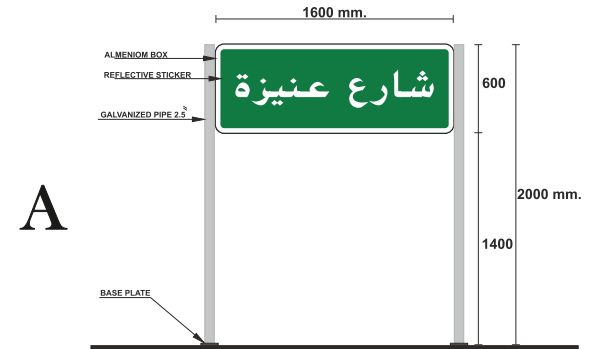
محطة بنزين
GAS STATION



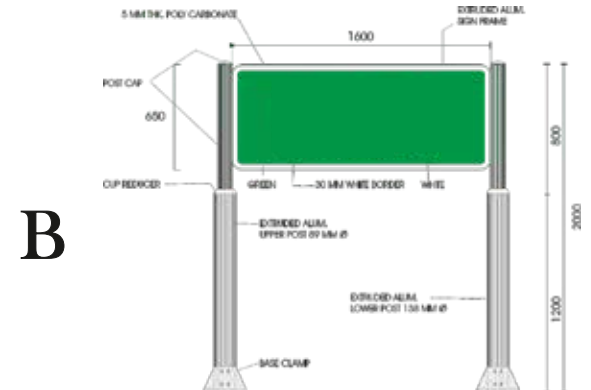
مقهى
REFRESHMENTS



منطقة تجمع
ASSEMBLY POINT



لوحات الطرق العاكسة
Reflective roads Panels



الإشارات العاكسة

Reflective signs

لوحات السلامة
Safety Panels

6- Logistics and Transportation Services

ROAFD ALHQOL Company provides transportation services for bitumen from production facilities of Aramco to modifier plants and finally to contractors.



٦- النقل والخدمات اللوجستية

توفر شركة روافد الحقول خدمات نقل وشحن وتفريغ المواد البيتومينية من المنشآت الانتاجية الخاصة بaramco الى منشآت التوزيع والمقاولين والمستخدمين النهائيين.





شركة روافد الحقول للاستثمار Roafd Alhqol Investment Co.

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