

# شهادة اعتماد

رقم 077 TL



يقر نظام الاعتماد العراقي بان:  
مختبر المكتب الاستشاري الهندسي / كلية الهندسة  
الجامعة المستنصرية

العراق- بغداد- باب المعظم

تم اعتماده وفقا لمتطلبات المواصفة ISO/ IEC 17025:2017  
(المتطلبات العامة لاهلية مختبرات الفحص والمعايرة)

في مجال:

- اختبارات المواد الانشائية
- اختبارات المواد المعدنية
- اختبارات المواد البلاستيكية
- اختبارات المواد الكيماوية
- اختبارات الاجهزة والمعدات الكهربائية والالكترونية

شرط التوافق مع متطلبات المواصفة اعلاه ومتطلبات IQAS الخاصة بالاعتماد  
مجال الاعتماد المرفق بالشهادة يعتبر جزءا لا يتجزء منها  
يمكن الحصول على الاصدار الاحدث من مجال الاعتماد من خلال الموقع الالكتروني

<https://iqas.mop.gov.iq>

يكون الاعتماد نافذا من ٢٠٢٦/٤/١٩ الى ٢٠٢٨/٤/١٨

تاريخ منح الاعتماد لأول مرة  
٢٠٢٢/٥/٣١

أ.د. خالد بنال النجم  
وزير التخطيط/ وكالة

محمد أيمن عمر  
مدير عام الهيئة/ وكالة

Ministry of planning  
Iraqi Organization for Accreditation  
IQAS

## ACCREDITATION CERTIFICATE

No. TL 077



Iraqi Accreditation System Certify that:

### **Engineering Consultancy Bureau Laboratory College of Engineering /Mustansiriyah University**

Iraq -Baghdad- Bab Al-Mudham

Is accredited according to the requirements of the standard ISO/IEC 17025:2017  
(General Requirements for the Competence of Testing and Calibration Laboratories)

In the field of:

- Construction Materials Testing
- Metallurgical Materials Testing
- Polymer Materials Testing
- Chemical Materials Testing
- Electrical & Electronic Devices Testing

This accreditation is subject to with the above standard & IQAS requirements

The scope of accreditation is attached to the certificate & considered as part of it

The most recent issue of the accreditation scope is available on IQAS website

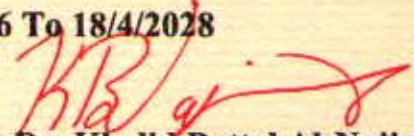
<https://iqas.mop.gov.iq>

Accreditation is valid From 19/4/2026 To 18/4/2028

Initial accreditation date

31/5/2022

  
Mohammed Ayden Omar  
Director General of IQAS

  
Prof. Dr. Khalid Battal Al-Najim  
Minister of Planning

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<p><b>Signature:</b>  Abdul Wahid M. Ibrahim Deputy General Manager</p>	<p><b>Accreditation is valid:</b> From 19/4/2026 To 18/4/2028</p>	<p><b>Issue no.:</b> 004</p>

Testing field	Type of test	Test object or product	Reference to standardized method
Mechanical	Determination of compressive strength	Concrete cubes	Iraqi guide no. 348:2017 BS EN 12390-3:2009
Physical	Determination of density	Concrete cubes	Iraqi guide no. 247:1992
Mechanical	Determination of modulus rupture and breaking strength	Pre – cast concrete tiles	IQS 1107:1992
Mechanical	Determination of modulus rupture and breaking strength	Ceramic tiles	Iraqi technical requirement NO.8 EN ISO 10545 PART 4
Mechanical	Determination of stability and flow	Asphalt mixtures	ASTM D6927-15
Mechanical	Preparation of asphalt mixture specimens using marshal apparatuses	Asphalt mixtures	ASTM D6926-20
Physical	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort	Subbase	ASTM D1557-12
Physical	Determination of sieve analysis	Subbase	ASTM D1241
Physical	Determination of density	Subbase	ASTM D1556-15
Physical and Mechanical	Determination of Atterberg limit (liquid, plastic limit and plasticity index)	Subbase	ASTM D 4318-17
Physical	Determination of lab density	Soil materials	ASTM D7263
Physical	Determination of field density	Soil materials	ASTM D 2937 – 00
Physical and Mechanical	Determination limit (liquid , plastic limit and plasticity index)	Soil materials	ASTM D 4318 – 17
Physical and Mechanical	Determination of elongation	Carbon structural steel	ASTM A370 ASTM A36 ASTM A529
	Determination of tensile strength		
	Determination yield strength		
	Determination of dimensions		
Physical and Mechanical	Determination of elongation	Steel reinforcing bars	ASTM A370 ASTM A615M
	Determination of tensile strength		
	Determination yield strength		

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	Determination bending		
	Deformation requirements		
	Determination of weight		
	Determination of dimensions		
Physical and Mechanical	Determination of tensile strength	Carbon-steel wire and welded wire reinforcement	ASTM A370 ASTM A1064
	Determination yield strength		
	Determination bending		
	Deformation requirements		
	Determination of weight		
	Determination of dimensions		
Chemical	Zinc Coating Thickness	Zinc (hot-dip galvanized) coatings on iron and steel products	ASTM A90 ASTM A123
Mechanical and Physical Testing	Determination of thickness	Pipe, steel, black and hot dipped, zinc-coated, welded and seamless	ASTM A370 ASTM A53 ASTM A106
	Determination of elongation		
	Determination of tensile strength		
	Determination yield strength		
	Determination of dimensions		
Mechanical and Physical	Determination of elongation	Ductile iron pipes, fittings, accessories and their joints for water applications	ISO 2531
	Determination of tensile strength		
	Determination yield strength		
	Determination of dimensions		
	Iron wall thickness		
	Cement mortar lining thickness		
	Surface condition		
Pipe coating			
Mechanical and Physical Testing	Determination of form Supplied and Surface Quality	Unplasticized polyvinyl chloride (PVC-U) pipes	DIN 8061 DIN 8062
	Dimensions, Tolerances and out of Roundness		
	Long-Term Hydrostatic Pressure		
	Determination of Weight		
	Impact Strength		

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<p><b>Mechanical and Physical Testing</b></p>	<p><b>Heat Reversion</b> Determination of form Supplied and Surface Quality Dimensions, Tolerances and out of Roundness Long-Term Hydrostatic Pressure Determination of Weight Heat Reversion</p>	<p>Polypropylene (pp) pipes</p>	<p>DIN 8077 DIN 8078</p>
<p><b>Chemical and Physical</b></p>	<p>Determination of Compressive Strength Determination of Setting Time Determination of SiO<sub>2</sub> contents Determination of CaO contents Determination of MgO contents Determination of Fe<sub>2</sub>O<sub>3</sub> content Determination of Al<sub>2</sub>O<sub>3</sub> content Determination of Loss of Ignition Determination of Insoluble Residue Determination SO<sub>3</sub> contents</p>	<p>Cement</p>	<p>I.G.O 198 I.Q.S No. 5  I.G.O 472 I.Q.S No. 5</p>
<p><b>Mechanical and Physical Testing</b></p>	<p>Determination of Compressive Strength Determination of Absorption Determination of Dimensions</p>	<p>Concrete interlocking paving units</p>	<p>ASTM C140 I.Q.S No. 1606</p>
<p><b>Physical Testing</b></p>	<p>Determination of compressive strength Determination of modulus rupture and breaking strength Determination of hardness Determination of Setting time Determination of Smoothness</p>	<p>Gypsum</p>	<p>I.Q.S NO.28:1988</p>

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<p><b>Mechanical and Physical Testing</b></p>	<p>Determination of Compressive Strength Determination of Absorption Determination of Dimensions Determination of General Mechanical Appearance and Shape Determination of Leveling of Surface Determination of Dimensions Determination of Water Absorption Determination of Efflorescence</p>	<p>Clay building bricks</p>	<p>I.Q.S 24 I.Q.S 25</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of Compressive Strength Determination of Density</p>	<p>Concrete cube</p>	<p>I.G.O 348 I.G.O 274</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of compressive strength Determination of density</p>	<p>Concrete core</p>	<p>Iraqi guide no.1:1987 Iraqi guide no. 247:1992</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of Dimensions Determination of Absorption Determination of Compressive Strength</p>	<p>Concrete masonry units</p>	<p>I.Q.S 32 ASTM C140</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of Flexural Determination of Dimensions Determination of Absorption Determination of Appearance Determination of Wear</p>	<p>Terrazzo tiles</p>	<p>I.Q.S 1042</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of flexural Determination of dimensions Determination of absorption Determination face leveling</p>	<p>Precast concrete flags</p>	<p>I.Q.S 1107 I.G.O 995</p>
<p><b>Mechanical and Physical</b></p>	<p>Determination of bending Determination of dimensions</p>	<p>Concrete kurb units</p>	<p>ISO 1340 I.Q.S 5164</p>

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	Determination of absorption		
	Determination of texture		
Mechanical and Physical	Determination of dimensions	Nonloadbearing concrete masonry units	I.Q.S 5190
	Determination of absorption		
	Determination of compressive strength		
	Determination of finish and appearance		
Mechanical and Physical	Determination of dimensions and anical surface quality	Ceramic tiles	ISO 13006 ISO 10545-2
	Determination of Modulus of Rupture and Breaking Strength		
Physical and Chemical	Determination of Grading (Sieve Analysis)	Coarse aggregate (gravel)	I.Q.S 45
	Determination of Finer Than 0.075mm		
	Determination SO <sub>3</sub> contents		I.G.O 500/3
Physical and Chemical	Determination of Grading (Sieve Analysis)	Fine aggregate (sand)	I.Q.S 45
	Determination of Finer Than 0.075mm		
	Determination SO <sub>3</sub> contents		I.G.O 500/3
Physical and Chemical	Standard test method for Marshall stability and flow and air void and bulk density	Asphalt concrete	ASTM D6927
	Quantitative Extraction of Asphalt Binder from Asphalt Mixtures		ASTM D2172
	Determination of Compaction and Thickness		ASTM D3549
	Standard test Method for Asphalt Content of Asphalt Mixture and Sieve Analysis		ASTM D6307 ASTM D136
Physical and Mechanical	Determination of breaking strength	Bituminous sheet material	ASTM D5147

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	Determination of pliability		
	Determination of thickness		
	Determination of Loss on Heating		ASTM D146
Physical and Mechanical	Cone Penetration Flow Bond	Sealants and fillers, hot and cold- applied for joints and cracks	ASTM D5329 I.Q.S 1110 I.Q.S 1136
Physical and Mechanical	Weight per Litter Residue by Evaporation Ash Content of Residue Water Content Flammability Heat Test Flexibility	Emulsified asphalt	ASTM D1227 I.Q.S 1173
Physical and Mechanical	Kinematic Viscosity Flash Point Residue from Distillation to 360°C Water % Residue Solubility in Trichloroethylene Tests on residue: Viscosity at 60°C Ductility at 25°C	Cutback asphalt prime coat Tack coat	ASTM D2027 ASTMD2028 AASHTO M 81 AASHTO M 82
Physical and Chemical Testing	Penetration Test Ductility Flash Point Softening Point	Asphalt used in roofing	ASTM D36 ASTM D92 ASTM D113 I.Q.S 1196 ASTM D5
Physical and Chemical Testing	Solubility in Trichloroethylene	Sub base	
Physical and Chemical Testing	Determination of grading (sieve analysis)		ASTM C136
Physical and Chemical Testing	Determination of maximum dry density		ASTM D1557
Physical and Chemical Testing	Determination of California bearing ratio		ASTM D1883

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	<p>Determination of density and unit weight of soil in place</p>		<p>ASTM D2167 ASTM D1556</p>
	<p>Testing determination of SO<sub>3</sub> contents</p>		<p>B.S 1377-3</p>
	<p>Determination of T.S.S contents</p>		<p>Earth manual E8</p>
<p><b>Physical , and Mechanical</b></p>	<p>Determination of density of soil in place by the drive-cylinder method</p>	<p>Soil</p>	<p>ASTM D2937</p>
	<p>Determination of maximum dry density</p>		<p>ASTM D698 ASTM D1557</p>
	<p>Determination of grading (sieve analysis)</p>		<p>ASTM C136</p>
	<p>Determination of Finer Than 0.075mm</p>		<p>ASTM D1140</p>
	<p>Determination of the liquid limit, plastic limit, and the plasticity index of soils</p>		<p>ASTM D4318</p>
	<p>Determination of California Bearing Ratio</p>		<p>ASTM D1883</p>
<p><b>Chemical</b></p>	<p>Determination of SO<sub>3</sub> contents</p>		<p>B.S 1377-3</p>
<p><b>Physical and Chemical</b></p>	<p>Determination of TSS, Cl, SO<sub>3</sub>, and Organic content for soil PH, Cl, SO<sub>4</sub>, and TDS for water</p>	<p>Soil investigation</p>	<p>B.S 1377 Earth manual E8</p>
	<p>Determination of Atterberg Limits (liquid limit and plastics limit)</p>		<p>ASTM D 4318</p>
	<p>Determination of Direct Shear</p>		<p>ASTM D 3080</p>
	<p>Determination of Grain Size Analysis</p>		<p>ASTM D 422</p>
	<p>Determination of Weight Neutral Water Content</p>		<p>B.S 1377 ASTM D 2216</p>
	<p>Field Standard Penetration Test</p>		<p>ASTM D 1586</p>
	<p>Unconfined Compression Test</p>		<p>ASTM D 2166</p>
	<p>Specific Gravity</p>		<p>ASTM D 854</p>
	<p>Consolidation Test</p>		<p>ASTM D 2435</p>
<p><b>Physical and</b></p>	<p>PH</p>	<p>Aluminum sulfate</p>	<p>HG 2225-2010</p>

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<p>Chemical</p>	<p>Melting point Density Water solubility Appearance AL<sub>2</sub>O<sub>3</sub> FE<sub>2</sub>O<sub>3</sub> Water insoluble matter Pb Particle Size</p>	<p>powder</p>	<p>CDC 6 (960) DTZS (BS EN 878: 2016)</p>
<p>Physical and Chemical</p>	<p>appearance chlorine Density, g/ml Na<sub>2</sub>ClO<sub>3</sub>, %w/v Na<sub>2</sub>ClO<sub>3</sub> Fe Co Cu Ni Hg As Cd Cr Pb Sb Se</p>	<p>Chlorine powder</p>	<p>ISIRI 2361</p>
<p>Physical</p>	<p>Determination of dimension Determination of water absorption Determination of class</p>	<p>Pre – cast concrete tiles</p>	<p>IQS 1107:1992</p>
<p>Physical and Chemical</p>	<p>Determination deviation from straightness Determination deviation from flatness in surface Determination of water absorption Determination chemical resistance</p>	<p>Ceramic tiles</p>	<p>Iraqi technical requirement NO.8 EN ISO 10545 PART 4</p>

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Physical and Mechanical	Determination of Residual strength resulting from water damage	Asphalt mixtures	AASHTO T283
Physical	Roughness Flatness Level of asphalt layer	Asphalt	ASTM E1364 ASTM E1703 AASHTO R41
Physical and Chemical	Determination of Gypsum contents Determination of clay contents Determination of organic contents	Sub base	Earth manual E8
Physical and Mechanical	Determination of Elongation Determination of Tensile strength Determination Yield strength Determination of Dimensions	Aluminum section	ASTM A370 ASTM A36 ASTM A529 EN 485-4
Physical and Mechanical	Determination of Dimensions Determination of Elongation Determination of Tensile strength Determination Yield strength Determination Bending Deformation Requirements Determination of Weight	Anchor bolts, screw, wisher, Shear connector	ASTM A325 ASTM F1554 ISO 989
Mechanical	Determination of pressure Hardness	Pipe, steel, black and hot dipped, zinc-coated, welded and seamless	ASTM A370 ASTM A53 ASTM A106 ASTM B280
Physical and Mechanical and chemical	Determination of dimension Determination of pressure Determination Yield strength Determination Elongation Coper percentage	Cooper pipes	ASTM B42
Physical and Mechanical	Determination Hardness Determination Ovality Determination of Pressure	Ductile iron pipes, fittings, accessories and their joints for water applications	ISO 2531
Mechanical	Strength at yield	Unplasticized polyvinyl	DIN 8061

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and Chemical	Elongation at yield Resistance to dichloromethane Determination of pressure	chloride (PVC-U) pipes	DIN 8062
Mechanical	Impact Strength Strength at yield Elongation at yield	Polypropylene (PPR) Pipes	DIN 8077 DIN 8078
Physical and Mechanical	Dimensions Hydrostatic pressure Thickness Tensile strength Impact test Stiffness	GRP Glass Reinforced Polyester Pipes	ISO23856/2021
Chemical Physical and Mechanical	Resistance to dichloromethane Dimensions weight Hydrostatic Pressure Thickness Tensile strength Impact Hardness	Polyethylene pipes (PE Pipes)	DIN 8074
Chemical Physical and Mechanical	Resistance to dichloromethane Determination of Stability Determination of Softness	Cement	I.G.O 472 I.Q.S No. 5
Chemical	Loss by burning Percentage of SO3 Percentage of Cao percentage of united water	Gypsum	I.Q.S NO.28:1988
Physical and Chemical	Determination of clay content Determination of light materials content Determination of organic content	Coarse Aggregate (gravel)	I.Q.S 45 I.G.O 500/3
Physical and Chemical	Determination of clay content Determination of light materials	Fine Aggregate (sand)	I.Q.S 45

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	content		
	Determination of organic content		I.G.O 500/3
Physical and Mechanical	Determination of elongation	Bituminous sheet material	ASTM D5147 IQS 4
	Density		
	Determination of cracks		
Physical and Mechanical	Determination of breaking strength and elongation	Bitumen Felts	ASTM D5147 IQS 4
	Density		
	Determination of cracks		
	Determination of pliability		
	Determination of thickness		
	Determination of Loss on Heating		
Physical	Effect of temperature	Sealants and Fillers, Hot and Cold- Applied for Joints and Cracks	I.Q.S 1136
Physical and Mechanical	Elastic recovery	Polymer Asphalt	ASTM D113
	G*/ Sin Δ original binder @ 76, kPa		SORB \R9
	G*/ Sin Δ by short term aging RTFO@ 76, kPa		ASTM D6084
Physical and Mechanical	Dimension	Manhole cover	BS EN 124 IQS 1490
	Load bearing		
	Group and classification		
	Uses		
Physical and Mechanical	Maximum load	Load test for concrete structure	ACI-318
	Deflection		
Physical and Mechanical	Maximum load	Pile Load test	ASTM D-1143 IBC 302
	Deflection		
Physical and Mechanical	Maximum load	Plate load test	ASTM D-1196
	Deflection		
Physical and Mechanical	Dimension	Sandwich panel	EN14509
	Density of isolation materials		
	compressive strength of isolation materials		

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Physical and Mechanical	Dimension	Foam Styropor	ASTM C272 ASTM C203 ASTM C303 ASTM D2126 ASTM D1621 EN 13501-1
	Density		
	Water absorption		
	Compressive resistance		
	Flexural strength		
Chemical	Quantity of Pb	Extractability of toxicity materials in water	I.Q.S 417
	Quantity of Cd		
	Quantity of Hg		
	Quantity of Sn		
	Quantity of Ni		
	Quantity of MN		
	Quantity of Cr		
	Quantity of Fe		
	Quantity of Zn		
Fe <sub>2</sub> O <sub>3</sub>			
Physical and Mechanical	Type and class	Adhesive ma Adhesive materials	EN:12004
	Extended Open Time		
	Tensile strength		
	Slip-Resistance		
Physical and Mechanical	Dimension	Cement Board	ASTM C 1185 ASTM C 518 ASTM C 696 ASTM D 1037 EN 13501-1
	Density		
	Appearance		
	Water absorption		
	Compressive resistance		
	Determination of Humidified deflection		
	Flexural strength		
Thermal Expansion			
Physical and Mechanical	Dimension	Gypsum Board Boardex panel Frontek panel	IQS 1676 EN 520 EN 13501-1 EN ISO 10545-2 ASTM E136
	Density		
	Appearance		
	Deviation due to humidity		
	Flexural strength		

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<p><b>Signature:</b>  Abdul Wahid M. Ibrahim Deputy General Manager</p>	<p><b>Accreditation is valid:</b> From 19/4/2026 To 18/4/2028</p>	<p><b>Issue no.:</b> 004</p>

	Compressive resistance		
	Thermal Expansion		
Physical and Mechanical	Dimension	Wool materials	IQS 1470
	Density		
	Absorption		
	Compressive resistance		
	Thermal stability		
Physical and Mechanical	Density	Epoxy materials	EN ISO 527 ASTM 638 ASTM 790 ASTM D 2240 ASTM C 307
	Flash point		
	Solubility in water		
	Tensile Strength		
	Flexural Strength		
	Physical state		
	Coat thickness		
	Solid content		
	Full curing		
Physical and Chemical	Density	Filter materials Sand and gravel Filters	IQS 1555
	Grading limit		
	SO <sub>3</sub> percentage		
	Solubility in HCL		
	organic content		
	silica content		
Physical, Mechanical and Chemical	Number of reinforcements	Concrete pipe	AASHTO T280-06 IQS 1432
	Dimension		
	Spacing and Diameter of steel bar		
	area of reinforcement		
	Absorption		
	Compressive strength		
	cover of reinforcement		
	Shape and defect point		
	SO <sub>3</sub> content		
Chemical	Carbon	Steel section (plate, pipe, shape) and steel	ASTM A36
	Manganese		

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	Phosphorus Sulfur Silicon Cooper	bars, Anchor bolt, shear connector, bolts, screw	
Physical and Mechanical	Dimension Compressive strength determination of cracks	Nondestructive test (ultrasonic and hammer)	ASTM C 597 ASTM C 805
Physical and Mechanical	Dimension Tensile strength Elongation at break Linear dimensional change	Lamella sheet	ISO 11922-1 ASTM D938 ASTM D1004 ASTM D1204
Chemical	SO <sub>3</sub> Carbonate and bicarbonate Chloride Inorganic impurities organic impurities TDS Hardness PH	Water for contraction purpose	IQS 1703 IQS 2270
Chemical	TDS TSS PH BOD COD Ammonia NH <sub>3</sub> Nitrate NO <sub>2</sub> Pats. Oil greense Total bacteria removal 99.99% virus removal Turbidity Phenol	Wastewater from sewer system Wastewater disposal from treatment plant	Environmental Limitation IQS 25
Physical and Mechanical	Determination of Appearance Determination of dimension Determination of density	Natural stone Granite, Marble, basalt	IQS 1837 IGO 65

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	<p>Determination of modulus of rupture</p> <p>Determination of water absorption</p> <p>Determination of compressive strength</p> <p>Determination of wear resistance</p>		
<p><b>Mechanical</b></p>	<p>Determination of bond strength of steel rebar</p>	<p>pull out test rebar in site</p>	<p>client's requirements</p>
<p><b>Physical and Mechanical</b></p>	<p>Appearance</p> <p>Determination of dimension</p> <p>Impact test</p> <p>Resistance to Fragmentation</p>	<p>Glass</p>	<p>ASTM C1048 DIN EN ISO 12543 BS-EN 12150 IQS 1608</p>
<p><b>Physical and Mechanical</b></p>	<p>Appearance</p> <p>Specific gravity</p> <p>Heat Stability</p> <p>Dilute in Water</p> <p>Drying Time</p> <p>Chemical resistance</p> <p>Wash resistance</p> <p>Color</p> <p>Shine</p> <p>Spray feature</p> <p>Contrast ratio of white</p> <p>Water resistance</p> <p>Glass ball</p> <p>Slip resistance</p> <p>Uses</p>	<p>Exterior and interior Paints</p> <p>Red oxide – Linseed oil Priming Paint</p> <p>Priming Coat Zinc – Yellow Iron Oxide Ready Mixed Enamel, Alkyd, Gloss Air Drying for Exterior and Interior Surfaces</p> <p>Hot –Applied Thermoplastic Road Traffic, Highway, White &amp; Yellow Paint</p>	<p>I.Q.S 985 I.Q.S 871 I.Q.S 877 I.Q.S 960 I.Q.S 1744 I.Q.S. 1101</p>
<p><b>Physical and Mechanical</b></p>	<p>Determination water content</p> <p>Determination Time setting</p> <p>Determination Compressive strength</p> <p>Determination Flexural Strength</p> <p>Determination shrinkage Length change</p>	<p>Additive materials for concrete</p>	<p>ASTM C494/C 494</p>

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<p><b>Physical and Mechanical</b></p>	<p><b>Determination of Dimensions</b> Stability of dimension Antibacterial resistance Impact resistance Isolation Effect of change in Temperature Effect of Humidity Wear resistance</p>	<p><b>Acoustic ceilings</b> PVC floor and door PVC marble PVC wood PVC chair</p>	<p>EN 13501-1 (ISO) 20743 IQS 1168 EN ISO 10582 BS 3042 EN 426</p>
<p><b>Physical and Mechanical</b></p>	<p><b>Insulation test</b> Generic general specification, Definition and requirements Dimensions Determination Ratio test TTR Omicron cpc 100 Determination of Finish and Appearance Determination of DC voltage test Determination of Max. Conductor Resistance Determination of Elongation for Insulation, Sheath and Conductor Tensile Strength for Insulation, Sheath and Conductor Determination of Yield Strength for Insulation, Sheath and Conductor</p>	<p><b>Electrical</b> Power transformers Circuit breakers Wires Cables Coaxial Conductors Electric generators Lights Fans Solar cells</p>	<p><b>Iraqi building code</b> 402/1:2015 IEC 60076 /1-11 IEC 60502-1 IEC 60288</p>