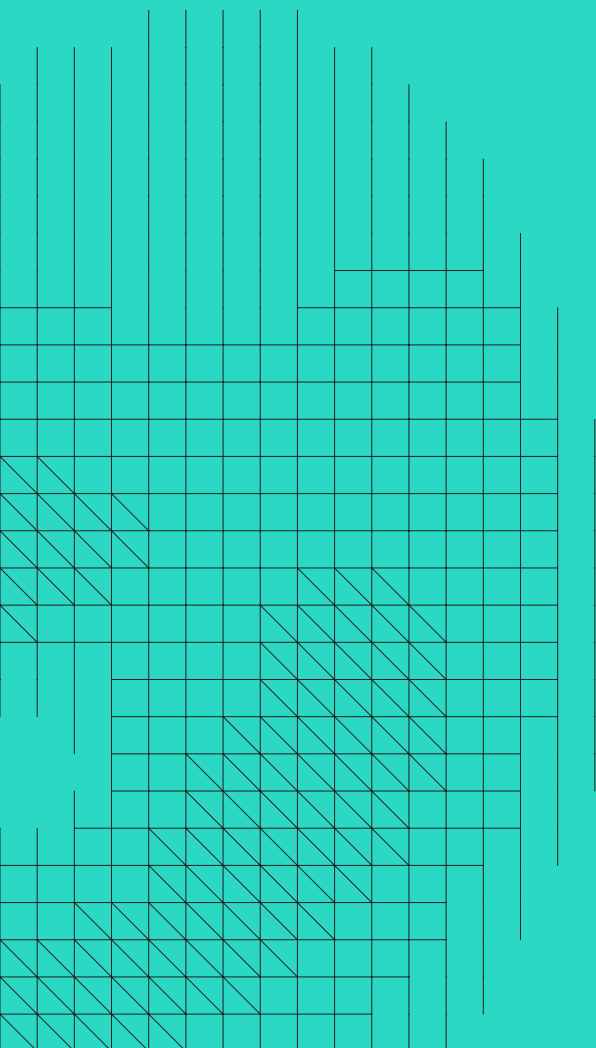
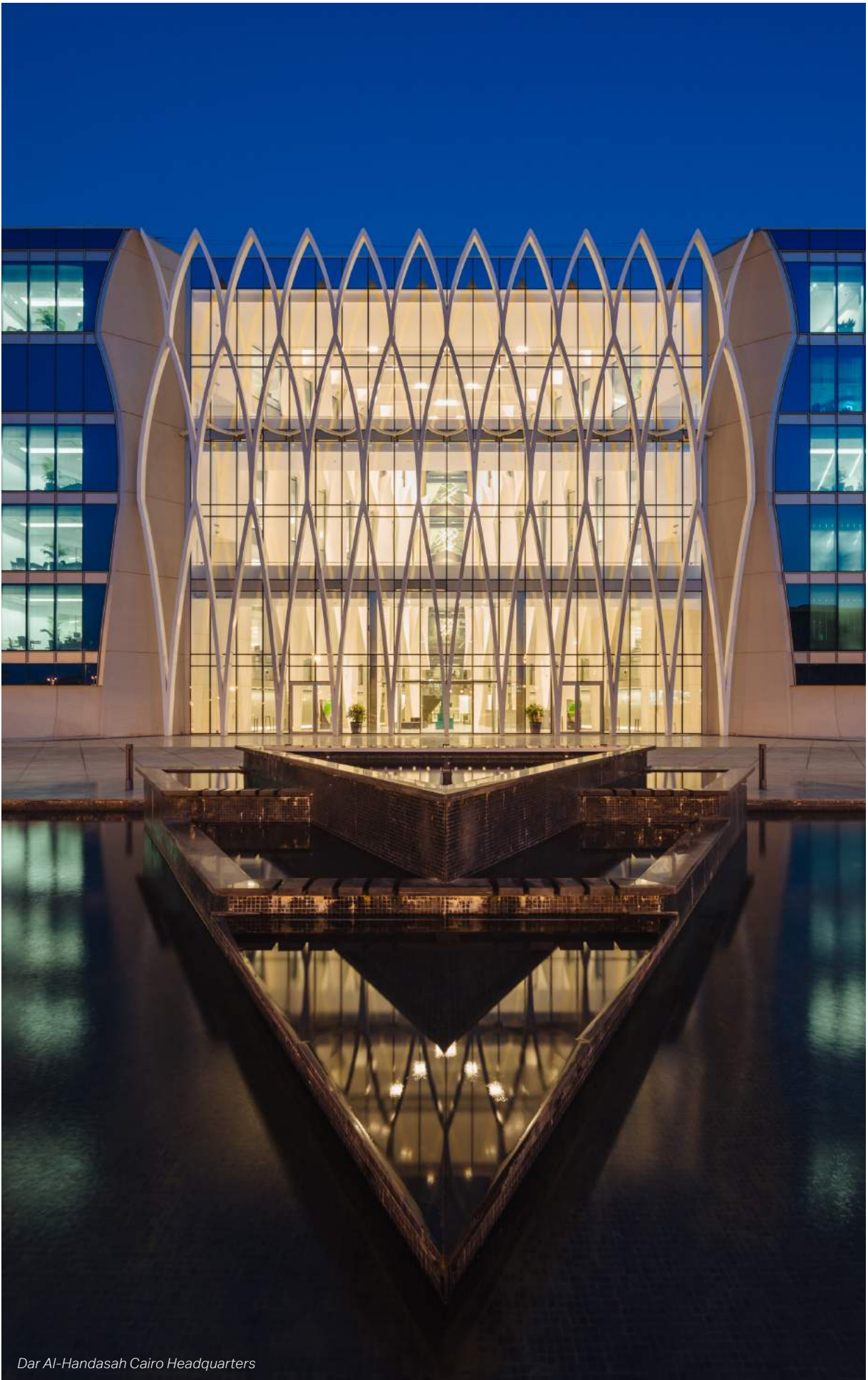


Company Overview

dar



Company Overview



Dar Al-Handasah Cairo Headquarters

Core Business

Dar Al-Handasah Consultants (Shair and Partners) is a privately-owned international multidisciplinary consulting organization in engineering, architecture, planning, environment, project and construction management, facilities management, and economics, founded in 1956. Its principal design head offices and technical support facilities are located in Beirut, Lebanon; Cairo, Egypt; London, UK; Pune, India; and Amman, Jordan; with a network of 49 permanent local branch offices throughout the Middle East, Africa, Asia and Europe of which 23 are on the African Continent.

Dar has provided consultancy services to more than 950 clients in 60 countries, and has handled over 4,000 projects involving a total investment cost of over US\$ 300 billion (construction costs for executed projects, excluding planning projects).

Dar attaches importance to the cultural aspect of all its commissions, finding that the most appropriate work comes from staff sensitive to the social, economic and political context of their projects. Teams from Dar can work equally well in the English, French, Arabic, Portuguese, Turkish, Russian, and Spanish languages. Senior professional staff combine an immense depth of expertise with traditions of excellence absorbed from leading academic and professional institutions within the American, British and French systems.

Dar belongs to the Sidara Collaborative, a multinational conglomerate of consulting firms, with a total workforce of more than 19,850.



Sidara firms collaborate extensively across geographies and disciplines, and each firm can, at any time, draw upon the resources and experience of the entire collaborative.

To fulfil its goal of offering sustainable leadership in the realm of global engineering and design consultancy, Sidara has set a strategy which is organized around four strategic pillars: **Infrastructure**, **Architecture**, **Project Management**, and **Energy**. This four-pillar approach will provide the sustainable and competitive scale of a global entity whilst retaining the specialist brands, capabilities, and expertise that clients demand.

INFRASTRUCTURE



Multi-disciplinary design, engineering, and project management expertise for buildings, transportation, utilities, and the environment. We work for both public and private sector clients on a diverse mix of large-scale, complex projects.



Dar Al-Handasah Consultants (Shair and Partners)

Over the last six decades, Dar has pioneered the planning, design, and implementation of development projects in the Middle East, Africa, and Asia. A leading multi-disciplinary consultancy, the firm specialises in planning, engineering, architecture, environment, project management, and economics.

Dar established and shaped Sidara into the global network of companies it is today.



T.Y. Lin International

Founded in San Francisco in 1954, T.Y. Lin International is internationally recognised for excellence in civil and structural engineering. The award-winning firm specialises in the planning, design, construction, and inspection of public and private infrastructure. Operating from offices throughout the U.S. and Asia, T.Y. Lin International has a well founded reputation for providing clients with high-quality engineering solutions that are responsive to need, innovative, cost effective, and constructible.



Introba

Introba is one of the world's largest building engineering and consulting firms with more than 1,000 employees in offices across the United States, Canada, the United Kingdom, Serbia, and Australia.

Committed to reshaping the world, our problem solvers combine cutting-edge digital solutions with emerging innovations and industry-leading sustainability strategies to transform the built environment. We collaborate with our clients to create living systems that are smart, secure, resilient, and connected – spaces that uplift communities, protect the health of the planet, and adapt to meet the demands of the future.



Maffeis Engineering S.p.A.

Based in Solagna, Italy and founded in 2000, Maffeis is one of the world's few leading engineering firms in the field of tension membrane/fabric structures and ETFE foil designs for long span structural applications such as stadia covers, façades, and retractable roofs/systems.



Landrum & Brown

Founded in 1949, L&B is one of the world's oldest and most accomplished aviation planning consultancy firms. It provides services to the top 50 U.S. airports. In the last 10 years, it expanded its global reach to the aviation markets in Greater China, Asia, Australia, and the Middle East.

ARCHITECTURE



Interdisciplinary, research-based architecture, interior design, branded environments, urban design, and landscape architecture. Projects emphasise beauty, sustainability, health, well-being, and cultural sensitivity.

PROJECT MANAGEMENT



Essential front-end services, including capital budgeting, financial advisory, and asset, cost, and construction project management. Specialties include transportation, logistics, and energy infrastructure, as well as real estate developments across all sectors.

ENERGY



Detailed design services, studies, project and asset management, and advisory services through the operations lifecycle. Diversifying our capabilities through a long-term strategic investment in WorleyParsons.

Perkins&Will

Perkins and Will

Perkins and Will is a full-service architecture and interior design firm based in the U.S., with a reputation for working with clients to transform programme goals into unique and meaningful design solutions. Since its founding in 1935, Perkins and Will has continued to reinforce its distinguished heritage through exceptional service and design excellence in the fields of healthcare, science and technology, education, general buildings, and interior design.

Currie & Brown

Currie & Brown

Currie & Brown is one of the world's leading construction consultancies dedicated to advising clients on the management and utilisation of their physical assets. It provides a range of construction management specialist skills including cost management, project management, building surveying, PFI/PPP services, due diligence, sustainable development, and other associated advisory services.

PENSPEN

Penspen Group

Penspen is an energy services company that is committed to shaping the delivery of tomorrow's energy by helping its clients engineer and operate their assets across the entire project lifecycle, maximising returns, and delivering technical excellence. Founded in 1954, the firm has completed over 5,000 pipelines and pipeline-related projects in over 40 countries.

INDIVIDUALLY AND COLLECTIVELY, OUR BUSINESSES ARE WORLD-CLASS.

Staffing

With a permanent staff of **9,120** (including 6,090 professionally qualified engineers; architects; town planners; environmentalists; economists; finance, marketing and management specialists; quantity surveyors; and others) and over 4,000 successfully completed projects, Dar has in-house expertise and experience to cover a wide range of engineering fields.



Technical Departments

To respond to the various engineering fields, our firm is structured in 11 technical departments, covering the whole spectrum, namely: **Planning and Urban Design** (regional, metropolitan & town master plans, new towns, urban upgrading & rehabilitation of old quarters, town & district centres, treatment of urban spaces & streets, industrial parks, and land use & parcellation) and **Landscape Architecture; Architecture** (housing; residential & office buildings; hotels, tourist, recreation & sport complexes; banks; government offices, education facilities, hospitals & health-care facilities; terminals for ports, airports, railways, bus, etc.; commercial complexes - trade & shopping centres; military complexes; conference, exhibition & cultural centres - theatres, libraries, etc.; religious buildings; community facilities; laboratories; telephone exchange buildings); **Transportation** (roads, railways, airports and seaports); **Structures & Bridges Engineering Department; Geotechnical & Heavy Civil Engineering** (ports, coastal & marine, tunnels); **Water and Environment** (water treatment, storage & distribution, wastewater collection, treatment & disposal, hydrology and hydrogeology, water resources & hydraulic structures, dams, agriculture, irrigation and drainage, GIS/RS); **Electrical** (power generation, transmission & distribution and electrical installations) and **Telecommunications; Mechanical & Industry** (district cooling; HVAC, plumbing, fire protection; building automation, energy management; manufacturing, industrial controls and instrumentation, mechanical plants); **Economics; Project Management & Contracts;** and **Digital Solutions and Services.**

Each Department is managed by a Technical Director/Partner, assisted by several Project Managers who in turn are supported by Senior and Project Engineers, Designers, Junior Engineers, Technicians, CAD Operators and clerical/administration staff.

Our departments are backed by a **Quality Management** Department that oversees and monitors the proper and timely conduct of all projects, and checks compliance with Client requirements and our internal and ISO guidelines.





Principal Activities and Services

Planning and Urban Design Regional, metropolitan & town master plans; new towns; urban upgrading & rehabilitation of old quarters; town & district centres; treatment of urban spaces & streets; industrial parks; land use & parcellation.

Architecture Housing; residential & office buildings; hotels, tourist, recreation & sports complexes; banks; government offices (ministries, embassies, etc.); education facilities (universities, schools, etc.); hospitals & health-care facilities; terminals (ports, airports, railways, bus, etc.); commercial complexes (trade & shopping centres); military complexes; conference, exhibition & cultural centres (theatres, libraries, etc.); religious buildings; community facilities; laboratories; telephone exchange buildings.

Transport Planning and Transportation

Engineering Transport & traffic studies; motorways; urban and rural roads & highways; causeways & river crossings; railways; automated people movers (APM); mass transit; bridges; airports, seaports & harbours; car parks & garages.

Structures & Bridges Engineering Department

Reinforced concrete, prestressed concrete, steel and composite constructions. Static, dynamic, linear and non-linear analysis of structures. Ultimate and serviceability design of structures including gravity, wind and seismic loads. Durability design including corrosion and fire. Retrofitting and repair of structures. Bridges cable-stayed, post-tensioned, segmental (pre-cast, cast-in-situ), box-girder, incrementally launched, arch, steel; underpasses; river crossings; cable-supported roofs; silos; shelters.

Geotechnical Engineering and Tunnelling Sub-soil investigations; foundations for major structures; dredging & reclamation; hydraulic & transportation tunnels; bored & cut-and-fill tunnels; dams.

Ports and Marine Works Shore protection works; sand nourishment; ports; marinas; offshore facilities; coastal structures: breakwaters, trestles, quays, jetties, embankments, sea walls; causeways & airport runways extending into the sea; coastguard bases; coastal land reclamation; waterfront development schemes; environmental impact assessment studies related to offshore works; numerical models.





8



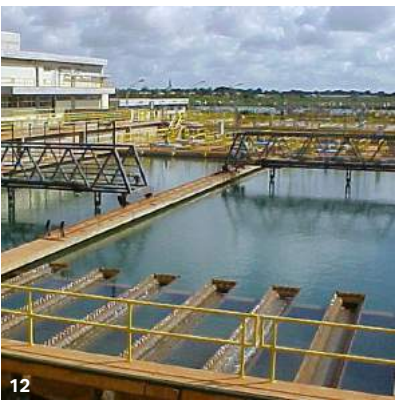
9



10



11



12



13



14

Water and Environment Water resources, hydrogeology & groundwater; water treatment & supply; sewerage & sewage treatment; leak detection; solid waste collection & disposal; industrial waste; hydrology, stormwater drainage & flood protection; agricultural development; land resources, land reclamation, irrigation & drainage; erosion control, river training & shore protection; storage & diversion dams; water reuse & landscape irrigation; environmental protection & environmental impact assessment; rural infrastructure; diagnosis & rehabilitation of existing infrastructure.

Power and Electrical Engineering Power generation; power transmission & distribution; electrical installations; building services; public lighting; security & surveillance systems.

Telecommunications Demand & traffic forecasts; network planning; switching; cable networks; radio systems; satellite systems; motorway networks; broadcasting systems & CATV; acoustics & sound systems; mobile radio; aeronautical systems; telemetry & control systems; intelligent buildings; security systems; telecommunication training centres.

Mechanical Engineering and Industry Heating, ventilation, air-conditioning & refrigeration; district cooling; plumbing and fire protection; health-care facility infrastructure; building automation, energy management and control systems; environmental control and thermal modelling; bulk materials handling, manufacturing facilities (fertilizer plants, cement & building materials factories, food processing, chemical & pharmaceutical plants, light industry); industrial controls and instrumentation, process piping, fuel handling and storage facilities; tunnel ventilation; mechanical plants for water, sewerage & desalination, pumping stations, surge analysis; operation & maintenance management systems.

Landscape Architecture Urban & regional landscape planning development; parks & recreational facilities; hotel & tourism complexes; streets, roads & motorways; military, airport & industrial sites; residential developments; educational centres; commercial complexes; governmental & civic facilities; research, scientific & medical institutions; corporate office parks; cultural & religious facilities; mixed-use developments; reforestation & site rehabilitation projects.



GIS & Remote Sensing GIS data conversion management, needs assessment, database design, applications development & data integration; digital mapping; imagery acquisition, image rectification, mosaicing & processing.

Economics National & regional economic planning & development; institutional planning; macroeconomics & policy; industrial economic planning (estates & area planning, feasibility, national planning); transport planning; population & manpower; feasibility studies for projects & developments; commercial property development.



Project and Construction Management in the aforementioned fields: conditions of contract; cost estimation; cost evaluation and control; risk analysis; contingency management; budget management; contractors' prequalification; tender management; design management; value engineering; constructability review; contract administration; construction supervision; QA/QC formulation\implementation; project controls system establishment\operation; planning, scheduling and progress control; contract management; contractors' interface\coordination; claims and disputes management; owner's representation; technical assistance and training.



Digital Solutions and Services Dar's specialised Digital Solutions and Services department seamlessly integrates digital products and services into the entire design-build-operate project lifecycle, propelling our clients' digital journeys and enabling them to achieve their business objectives. Our expertise covers digital design and planning, digital advisory and consulting, and digital solutions delivery.

Services: preparation of master plans, fundamental planning, etc.; sector studies, institutional reform, manpower plans, tariff studies, etc.; project feasibility studies (technical, financial, economic); detailed engineering design and tender documentation; pre-qualification of contractors, tendering, tender evaluation and contract negotiation; supervision of implementation, acceptance testing and commissioning; project and construction management; facilities management, training, technical assistance and transfer of expertise.



International Ranking



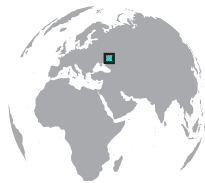
THE TOP 225 INTERNATIONAL DESIGN FIRMS



RANK		FIRM	FIRM TYPE	2022 INT'L REVENUES		MARKETS (% of revenue)									
2023	2022			In \$Million	%	General Building	Manufacturing	Power	Water Supply	Sewer/Waste	Indus./Petroleum	Transportation	Hazardous Waste	Telecom	
1	1	†WSP GLOBAL INC., Montreal, Quebec, Canada	E	6,760.4	82	19	1	10	3	3	4	45	7	2	
2	2	WORLEY LTD., North Sydney, New South Wales, Australia	E	4,266.5	86	1	0	10	2	1	79	3	3	0	
3	3	.AECOM, Los Angeles, Calif., U.S.A	M	4,033.1	50	23	0	3	13	4	1	44	11	1	
4	4	†ARCADIS NV, Amsterdam, Netherlands	M	3,929.4	92	29	2	7	9	2	2	24	25	1	
5	5	†JACOBS, Dallas, Texas, U.S.A	M	3,496.6	30	10	3	15	9	6	19	31	7	0	
6	6	†SNC-LAVALIN INC., Montreal, Quebec, Canada	M	3,265.6	79	19	2	9	6	0	2	43	6	0	
7	8	†STANTEC INC., Edmonton, Alberta, Canada	M	3,175.3	76	26	1	10	17	11	5	22	3	0	
8	7	.WOOD, Aberdeen, Scotland, U.K	EC	2,874.7	83	3	8	7	2	2	68	6	3	0	
9	9	†FLUOR, Irving, Texas, U.S.A	EC	2,355.2	62	0	1	0	0	0	83	0	0	0	
10	10	Sidara (formerly Dar Group)	M	2,200.6	100	51	0	1	2	2	5	36	0	1	

5th AMONG PURE DESIGN FIRMS

The top 10 by region



RANK		FIRM
2023	2022	
1	3	.WORLEY LTD
2	2	AECOM
3	1	Sidara (formerly Dar Group)
4	4	KHATIB & ALAMI
5	6	EGIS
6	10	JACOBS
7	9	WOOD
8	5	SNC-LAVALIN
9	8	FUGRO NV
10	**	EHAFC CONSULTING ENGINEERS

1st AMONG PURE DESIGN FIRMS



RANK		FIRM
2023	2022	
1	1	WORLEY LTD.
2	4	HATCH LTD.
3	3	Sidara (formerly Dar Group)
4	**	MAIRE TECNIMONT SPA
5	**	POWER CONST. CORP. OF CHINA
6	4	WOOD
7	**	CHINA ENERGY ENG. CORP. LTD.
8	7	EGIS
9	**	CHINA RAILWAY CONST.CORP.LTD.
10	9	MOTT MACDONALD

2nd AMONG PURE DESIGN FIRMS



RANK		FIRM
2023	2022	
1	1	WSP GLOBAL INC.
2	2	STANTEC INC.
3	3	ARCADIS NV/CALLISON RTKL
4	4	WOOD
5	6	WORLEY LTD.
6	7	Sidara (formerly Dar Group)
7	6	SNC-LAVALIN
8	8	MOTT MACDONALD
9	10	LARSEN & TOUBRO LTD.
10	**	LARSEN & TOUBRO LTD.

4th AMONG PURE DESIGN FIRMS

The top 10 by market

BUILDINGS

RANK		
2023	2022	
1	2	WSP GLOBAL INC.
2	3	Sidara (formerly Dar Group)
3	1	ARCADIS NV
4	4	AECOM
5	6	STANTEC INC.
6	5	SWECO AB
7	8	ARUP GROUP LTD.
8	7	SNC-LAVALIN
9	9	RAMBOLL GROUP A/S
10	**	JACOBS

2nd AMONG PURE DESIGN FIRMS

TRANSPORTATION

RANK		
2023	2022	
1	1	WSP GLOBAL INC.
2	2	AECOM
3	3	SNC-LAVALIN
4	4	JACOBS
5	5	ARCADIS NV
6	10	ARUP GROUP LTD.
7	6	Sidara (formerly Dar Group)
8	9	SYSTRA
9	8	EGIS
10	**	STANTEC INC.

4th AMONG PURE DESIGN FIRMS

Engineering News-Record | ENR 2023

The Firm's activities are entirely devoted to the provision of engineering and related consulting services.

In terms of the year **2023 rankings** of the top international design consultants issued by Engineering News-Record, the Firm figured among the top consultants in the following sub-markets:

1st in Education

1st in Health Care

5th in Hotels, Motels
& Convention Centers

6th in Multi-Unit Residential

8th in Mixed-use

2nd in Commercial Offices & Banks

3rd in Retail

9th in Government Offices

8th in Distribution & Warehouses

3rd in Sports

2nd in Entertainment & Theme Parks

1st in Religious & Cultural

1st in Airports

8th in Highways

2nd in Bridges

12th in Mass Transit & Rail

10th in Water Transmission Lines
& Aqueducts

9th in Sanitary & Storm Sewers

1st in Transmission lines and Cabling

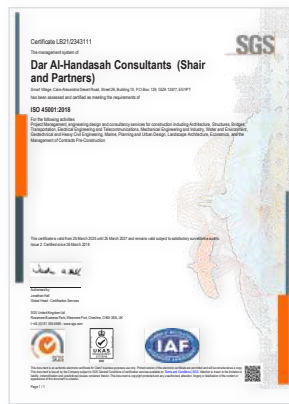
This rating is for international billings which also includes design fees by contractors and not only pure consultants.

Accreditations



As a FIDIC member, and with reference to the FIDIC Guide to Quality Management, Dar is committed to excellence through the implementation of a Quality Management System involving all the levels of management and every employee. Dar is also certified to the Quality Management Systems ISO 9001:2015, Environmental management systems ISO14001:2015, Health and Safety Management Systems (OHSAS) ISO 45001:2018, and Information technology, Security techniques, Information Security Management systems ISO 27001:2013.

The objective of the management of Dar is to provide services in a manner conforming to Client's contractual and regulatory requirements. In order to achieve and exceed this objective, it is the governing policy of Dar to develop and secure an effective and efficient Quality System planned, established and maintained in conjunction with other management functions.



Accreditations

Dar has been a member of USGBC (US Green Building Council) since 2007 and a licensed Education Delivery Partner to the USGBC since May 2011. We currently have 172 LEED accredited professionals from different disciplines, 198 LEED green associates, 3 USGBC LEED® Faculty™; 31 SITES Accredited Professionals, 15 GSAS Certified Green Professionals; 14 ESTIDAMA Pearl Qualified Professionals, 3 Envision certified professionals, 5 CEMs, 4 WELL APs, 3 BREEAM Accredited Professionals, 1 Certified Carbon Auditing Professional, 1 Certified Measurement and Verification Professional as well as a renewable energy professional and a TRUE advisor.

In terms of projects, we have 32 GSAS: 1 5-Star certified project, 12 4-Star certified projects, 8 3-Star certified projects, 11 2-Star certified projects, 6 GSAS registered projects, 1 project targeting 5-Star GSAS, 2 projects targeting 4-Star GSAS and 3 projects targeting 3-Star GSAS; 17 ESTIDAMA Pearl certified project – 1, 3-Pearl level & 8, 2-Pearl level & 8, 1-Pearl level; 8 EHS registered projects worked in-house and granted the design stage permits approvals, 30 LEED certified projects (3 Platinum, 13 Gold, 8 Silver, and 6 certified) and 45 Registered Projects with the USGBC, some targeting LEED Gold and Platinum certification and compliance (under LEED v4 & LEED v4.1) in Dubai, Beirut, Amman, Riyadh, Jeddah, Qassim, Taif, Al Madinah and Makkah. These projects include Airport terminals, Hospitals, Research Facilities, Libraries, Hotels and Office Buildings. Thus, Dar has the in-house capability, expertise and the accredited professionals capable of designing energy efficient and sustainable high performance green buildings in accordance with international codes and regulations. Our designs are able to attain any level of green certification as required by the client and within the project budget. Dar is committed to follow up the certification process through the Design and Construction phases until the project receives the targeted sustainability certification.



Awards



Ibadan City Masterplan
Royal Town Planning Institute (RTPI) Awards for Planning Excellence, 2019

Sheikh Jaber Al-Ahmad Al-Sabah
Causeway - Main Link
American Concrete Institute (ACI) - Kuwait Chapter - 2017 Special Award for infrastructure project



Campus Transit System in Princess Nora
Bint Abdulrahman University for Women,
Riyadh, KSA
IRF Global Road Achievement Awards (GRAA), 2015 Technology, Equipment & Manufacturing category

King Abdul Aziz International Airport (KAIA), Jeddah, KSA
Global Infrastructure Leadership Forum Award for 2015 Engineering Project of the Year



King Abdullah bin Abdulaziz University Hospital in Princess Nora bint Abdulrahman University

- *The Chartered Institute of Procurement & Supply Certification*
- *Training and educational center for Saudi professional programs license*
- *International Quality Certificate in Environmental Management System*
- *LEED Certificate for Green Buildings*
- *American Organization Award for Healthcare Information and Management Systems Society*
- *Excellence Award for Smart Hospital*
- *Planetree Silver Merit*
- *Saudi Central Board for Accreditation of Healthcare Institutions*
- *Global Accreditation Certificate from ECRI Institute*
- *HACCP Certificate*

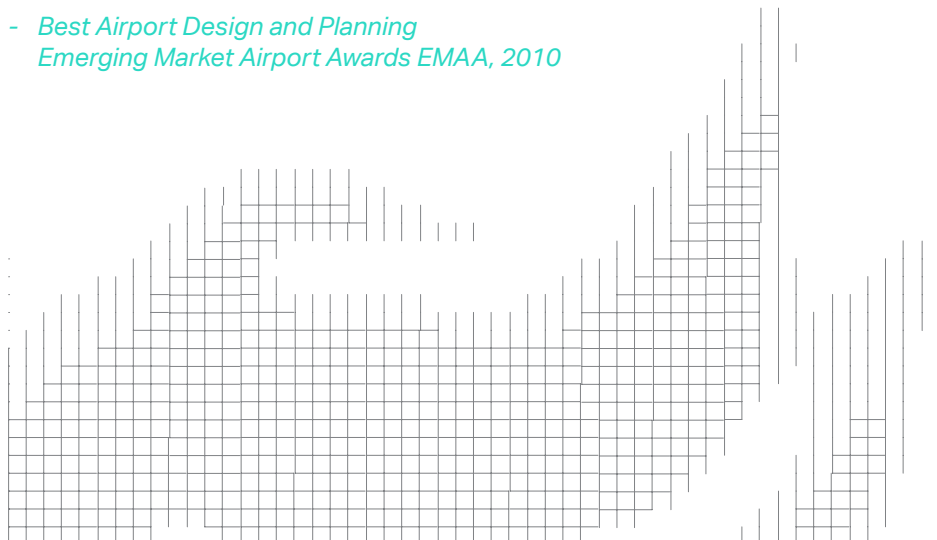


Doha Tower, Qatar
Building Tower of the Year
MEED's Quality Awards Projects for 2013



Dubai International, Concourse A, UAE

- *The Dubai Aviation Engineering Projects Excellence Award 2013 Outstanding work on the 24-million pax/year*
- *GCC Quality Project of the Year*
MEED's Quality Awards Projects for 2013
- *Best Airport Design and Planning*
Emerging Market Airport Awards EMAA, 2010





National Guard's King Abdullah Specialized Children's Hospital (KASCH) Jeddah, KSA
Honorable Mention in Modern Healthcare 27th Annual Design Award, 2012



St. Regis Doha, Qatar
Leading New Hotel, Middle East's Leading New Hotel, Qatar's Leading New Hotel, 2012 World Travel Awards



Sea Water Desalination Plant for Pearl, Qatar
MEED's Quality Awards Projects for 2012



King Abdullah University of Science and Technology Research Park (KAUST RP). Conceptual Master Plan, Jeddah, KSA
Association of University Research Parks (AURP) Award, 2012 for Emerging Research and Science Park



5th Ring Road, Kuwait
Outstanding Design Award, 2010
recognition by Ministry of Public Works



Arab Potash Company Plant
 Optimisation and Production
 Expansion Projects, Jordan
APC's Appreciation Award, 2010
Superior production value with
the least energy consumption



Sabah Al-Salem University – Kuwait University City, College of Education
World Architecture Festival Award, 2010, Future Projects



Kamal Shair Bridge over Wadi Abdoun,
 Amman, Jordan
Outstanding Concrete Structures Award,
FIB 2010



Qasr Khozam, Jeddah, KSA
Makkah's Award for Architectural Excellence
Masterplan, 2009

List of Figures



1- Saudi Arabia
KSAU Overall
Campus



2- Iraq
Dukan Lake
Master Plan,
Sulaimania,
Kurdistan
Region



3- Saudi Arabia
Jeddah
Economic City



4- Qatar
St Regis Hotel
and Residential
Towers



5- Turkey
Tarsus -
Gaziantep (TAG)
Motorway



6- Jordan
Kamal Shair
Bridge



**7- United Arab
Emirates**
Dubai
International



8- Saudi Arabia
Mashaaer Metro



9- Qatar
The Pearl



10- Jordan
Liquefied Natural
Gas Terminal in
Aqaba



11- Algeria
Lakhdaria-
Liaison RN5
Tunnels Lot



12- Angola
Water Supply to
South East of
Luanda



13- Qatar
District Cooling
Plants at the
Pearl and West
Bay P2



14- Angola
Lauca
Transmission
Line and
Substations



15- Angola
Cambambe Dam
Heightening
Project



16- Lebanon
Sibline Cement
Factory



**17- United Arab
Emirates**
Dubai World
Central (DWC)



18- Jordan
Disi-Mudawarra
to Amman Water
Conveyance
System

