

COMPLETE BUILDING  
ENVELOPE SOLUTIONS

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GLOBAL  
E | P | C | M  
PROJECTS



# EPCM BUILDING ENVELOPE SOLUTIONS

## Who we are?

AFG was established as an engineering and EPC company in 2007 in Turkey. AFG is an international company with a philosophy to combine our expertise with local resources and capabilities in markets we operate in. We are a technology-driven engineering company with core activities in project development, design and construction. Our projects include solar power plants, data center, health care facilities, Modular Buildings and Cold Chain solutions. AFG targets activity in Central Asia, the Middle East, Eastern Europe and Russia and Sub-Saharan Africa. AFG is diverse and flexibility capabilities arise from a talented team of experienced and young engineers using leading edge technology for tailor made designs in support of a project's needs and goals. AFG believes its greatest asset is its employees. Therefore, we strive to create a uniquely comfortable and friendly environment which is dynamic, productive and nurtures long term relationships.

We are well aware of the need for clean, sustainable and efficient energy. Our goal is to provide the best solution for investment in light of the interests of all stakeholders including local communities.

## YOUR EXPECTATIONS



Planning and building a new production plant or revamping existing facilities requires a broad range of knowledge, experience and reliable expertise. Assan Panel offers you complete tailor-made turnkey solutions that include everything you want: best integration of buildings, infrastructure, logistics, and sub-systems - all with cutting-edge technology. With turnkey solutions made by Assan Panel's unique expertise, you can expect a sound basis for success given that demands worldwide are changing and growing fast - along with your expectations. We rise to the challenge by combining our leading metallurgical technology more rapidly, flexibly, and efficiently with our know-how in turnkey construction of integrated plants. "All under one roof" is our mission statement to create the synergies that produce innovative solutions for you. That's expertise from one source for even better performance.

## OUR SOLUTIONS



We offer you a choice of tailored turnkey models also covering EPCM services. Included in our full spectrum of services are highly skilled project management, configuration of project scope, basic and detail engineering, procurement and manufacturing, transportation to site, site start-up and management, construction, and/or installation services. All services in one hand minimises interface drawbacks. We are with you all the way. Assan Panel takes control either as your general contractor or your leading partner in a national or international consortium. That means your plant is not just delivered, it's ready for operation! So you can concentrate on your core business: profitable production!

## YOUR BENEFITS



You can rely on our overall responsibility for planning and execution because we offer you a high degree of know-how, flexibility, and an excellent track. As a general contractor or leading partner in international consortiums, Assan Panel draws on profound experience in implementing large-scale turnkey projects for the iron and steel as well as the nonferrous metals industries. Just as useful are our in-house technologies and the engineering expertise. Wherever your project is based, you benefit from our worldwide reach. It includes strategic partnerships covering the whole range of turnkey solutions for steelmaking and metal processing plants, including ancillary infrastructure. What brings you an added advantage is that Assan Panel works with engineering offices, representatives, and local partners all over the globe. They ensure we are perfectly placed to handle all aspects of your project.



## EPCM BUILDING ENVELOPE SOLUTIONS

### TURNKEY BENEFITS

- *TAILORED SYSTEM SOLUTION FROM ONE SOURCE*
- *BUDGET RELIABILITY*
- *DEADLINE RELIABILITY*
- *OPTIMIZED PROJECT COMPLETION*
- *SINGLE POINT OF CONTACT*
- *REDUCTION OF RISKS FOR THE BUILDER*
- *LOWER PROJECT ORGANIZATION EXPENDITURE*
- *LOWER EXPENDITURE FOR TEMPORARY HIRING OF EXPERTS*
- *SINGLE SUPPLY AND WARRANTY INTERFACE*
- *SAVINGS ON PROJECT COORDINATION*



## SYNOPSIS & METHODOLOGY

### Why Choose the EPCM Approach?



• You retain control of your project and take part in its execution (unlike the turnkey approach, which allows you very little involvement).



• Your project is constantly optimized. Through every phase of the project, our teams have the latitude to apply their skills and creativity to solve any challenges that arise. They do not allow problems to delay a project month after month as they will find a way to solve them without interrupting work progress.



• The budget and schedule are closely monitored. Our teams work with you to keep these on track.



• The engineers who work on your project stay involved from beginning to end. They know the project better than anyone else, they contribute their technical and technological input based on your operational priorities until project completion.



## → HOW WE CAN HELP

We manage the programme on behalf of our clients effectively, coordinate all design, procurement and construction work, and ensure that the project is completed on time and to the required quality and cost.

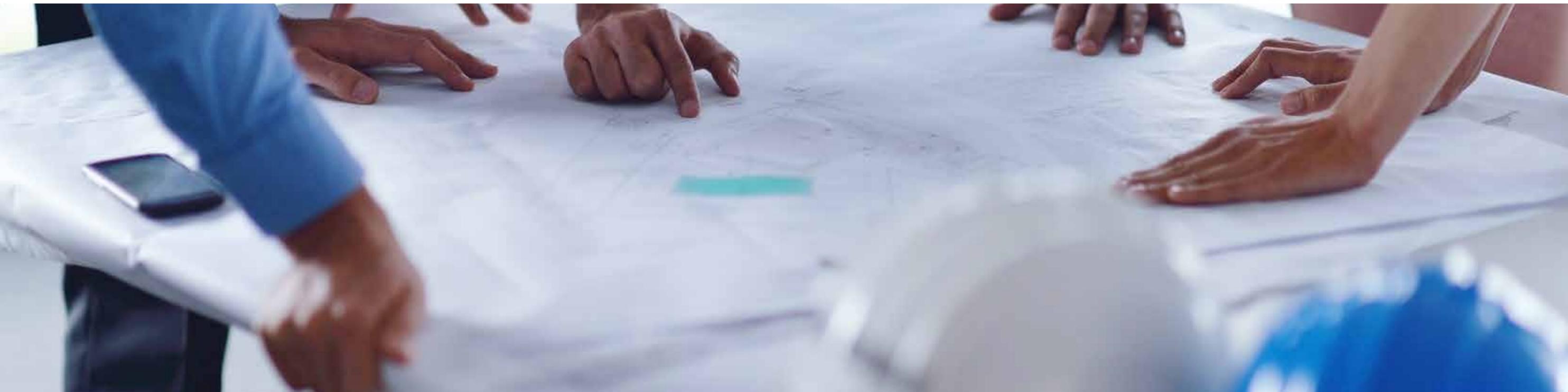
We use our ingenuity to save our customers money and time, reduce risks, increase efficiency, maximise sustainable outcomes and advance best practice.

## KEY SERVICES

We provide a full range of EPCM services to our clients through the entire lifecycle of a project

**Including:**

- Programme management
- Project planning and project controls
- Commercial management
- Engineering design and management
- Procurement management
- Project quality assessment
- Construction management
- Commissioning management
- Health and Safety Executive management and compliance
- Vendor/material management
- Inspection services
- Project stabilisation
- Documentation and handover



## → SCOPE OF WORKS

- *STANDING SEAM ROOF*
- *ROOF SANDWICH PANEL*
- *WALL SANDWICH PANEL*
- *GUTTER & ACCESSORIES*
- *TRANSLUCENT SHEET*
- *SOLAR ENERGY SYSTEM*
- *STEEL STRUCTURE*
- *STEEL CAGE LADDER*
- *DOWNSPOUTS*
- *EXTERNAL STEEL DOOR*
- *EXTERNAL WINDOWS*
- *FIXED PITCH LOUVERS*
- *SMOKE EXTRACT SYSTEMS*
- *INDUSTRIAL DOORS*
- *ROOF WALKWAYS*
- *ROOF LIFELINES*

## STANDING SEAM ROOFING SYSTEMS

Standing Seam Systems can meet the most demanding construction and design requirements to create roofs and facades that successfully combine outstanding functionality. The design potential is limitless. It can be used in large spaces and in a variety of shapes, including

curves. Standing seam roof sheets are supported directly off the roof purlins via the support clips/halters.



## INDUSTRIAL BUILDING ENVELOPE SOLUTIONS

### SANDWICH PANELS

Produced of two dyed Galvanized or Aluminum corrugated plates filled with (PIR, PUR, Rock wool) for thermal insulation.

Used as coating materials in the roof, wall and internal partition or cold rooms of the buildings, sandwich panels provide a quite high level of thermal, water, and sound insulation, which prevent moisture condensation.

Distinguished with their bearing capacity which depends on the density, thickness of filling material and the form of metal surfaces.



## SOLAR ENERGY SYSTEMS

Turnkey contract of industrial solar power plants construction  
Assan Panel Engineering department is able to provide full range of services for the development, design, construction and operating of any RE power plants. Based on own professional experience the company provides qualified support at all stages of implementation of products and solutions related to renewable energy. Our specificity is to develop and implement turnkey RE projects that include the following stages:

- Design;
- Procurement and delivery of equipment to the ground;
- Construction and installation of equipment;
- Commissioning and customer training.

Assan Panel is your reliable EPC (Engineering – Procurement – Construction) and EPCM (Engineering – Procurement – Construction – Management) contractor in the sphere of power and industrial facilities construction on the turnkey bases. Experience and qualification of our specialists help our clients in completing the following:

- Conception development and preliminary engineering studies;
- Development and implementation of own methodology of project management at all stages of investment project;
- Detailed engineering and design based on used technology and project requirements;
- Management and control: schedules, cost control, job-calculation, forecast, reports and risk minimization.

### Key advantages:

- Own design department with extensive experience in the field of solar energy.
- Support of projects for the turnkey construction of commercial solar PV power plants – extensive practical experience.
- High-quality and time-tested equipment from industry leaders.
- Work on the client's side – individual approach to each project, including the selection of equipment.
- Own staff of trained service engineers, which have got all the necessary permits and certificates.
- Experience in cooperation with foreign customers and investors.



## PEB STEEL CONSTRUCTION

The PEB industry has evolved from catering to applications such as warehouses and simple industrial buildings to constructing highly complex buildings such as high rise buildings, power plants, steel plants, shipyards and metro stations. These applications require much specialised design, manufacturing and installation skills to provide custom quality steel products for the structural steel industry.

Pre-Engineered steel Buildings are ideal in terms of their flexible dimensions, speedy production and easy dismantling or relocation that is suitable for installation in any area of the world as well as use over longer periods of time.



## TRAIN & METRO STATIONS

### INTEGRATED SYSTEMS

Integrating systems such as Standing Seam, Sandwich Panel, Translucent Sheets, Light Steel Profiles to form a modern environment friendly structural system that suits all geometrical designs of an architect and to shape an urban beauty for public transportation.



## AIRPORT TERMINALS

COMPLIANCE WITH INTERNATIONAL STANDARDS OF MODERN AVIATION STRUCTURES

Global business coalitions, local expertise of our subsidiaries pool, with world's consultant icons in this sector. All to achieve a successful delivery that suits prestigious projects and at customer's best disposal.

Integrated geometrical engineering solutions that applies the innovations of architectural designers and satisfy the LEED requirements.



## OIL & GAS FACILITIES

INTEGRATED AND FLEXIBLE DESIGN

OIL & GAS EPC PROJECTS

Refineries, plants, storage facilities, processing facilities, temporary camps and all related cladded structures.

We are registered to world's top EPC contractors and honored to be part of the approved suppliers.



## REFERENCES

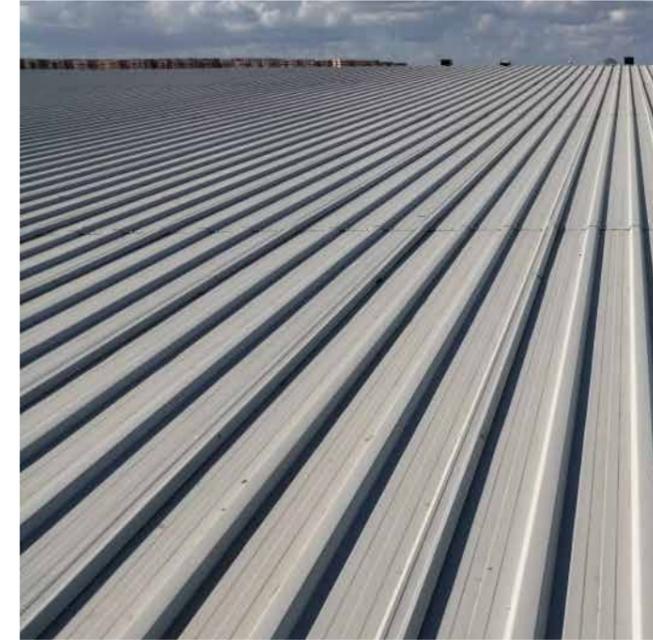


Adoksan Döküm San. ve Tic. Ltd. Şti.'s new investment project in Miskolc / Hungary. The 5,000 m<sup>2</sup> first phase of the project, which includes a total of 13,000 m<sup>2</sup> roof and facade panels, is implemented by Assan Panel as an EPCM project. Within the scope of the project, the installation of roof & facade panels and accessories, facade skylights, siphonic drainage systems and the coordination of smoke extract systems and industrial doors were undertaken by Assan Panel.



PROJECT

MISKOLC  
HUNGARY



It is the roof renovation project of Çalık Alexandria for Ready Made Garments PFZ, one of the Çalık Holding group companies, of the textile factory investment in Alexandria / Egypt. Within the scope of the project, the renovation of approximately 17,500 m<sup>2</sup> roofing system, which is exposed to the chemical effects of time and process, is carried out. The roof system applied on-site with the bottom-top sheet and the insulation layer placed between is removed, the existing carrier steels are improved and other necessary infrastructure works are completed and a new sandwich panel roof coating is installed.



## REFERENCES



PROJECT

ALEXANDRIA  
EGYPT



→ REFERENCES



↑ REFERENCES



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