



**AssanPanel**

**RAPID BUILD  
HEALTHCARE FACILITIES**

## WHO WE ARE

Assan Panel Sanayi ve Ticaret A.Ş., which started operating in 1990 as a Kibar Holding A.Ş. company, made its first investment in Tuzla-Istanbul with a 4,000,000 m<sup>2</sup>/year capacity sandwich panel factory. Responding to customer interest and demand, the Iskenderun factory with a capacity of 3,000,000 m<sup>2</sup>/year was established in 2004, the Balıkesir factory with a capacity of 3,000,000 m<sup>2</sup>/year was established in 2009, the 4,500,000 m<sup>2</sup>/year capacity Kibar Industry-Assan Panel factory in Jordan was established in 2012 and in 2015 a second production line with 3,500,000 m<sup>2</sup>/year capacity was invested in and added to the Istanbul factory to increase the total installed capacity to 18,000,000 m<sup>2</sup>/year.

The Jordan facility of Assan Panel is installed on an indoor area of 6,500 m<sup>2</sup> and outdoor area of 10,000 m<sup>2</sup> with a fully automated production line equipped with the newest technology and is the largest sandwich panel producer in the Middle East with a capacity of 4,500,000 m<sup>2</sup>.

Assan Panel has added the Galvanized Sheet Metal experience of its group since 1980 to its own structure to provide its customers with galvanized sheet metal products and services mostly for the construction and building sector.

Products in the flat product group according to the needs of construction and building sector companies are kept in stock for customer demand and supplied to customers. Under the product groups that are the main items of galvanized and prepainted sheet metal are also roll, panel, grooved, blind and corrugated sheet products.

With 8,500,000 m<sup>2</sup> in sales from production since 2010, Assan Panel has achieved a record capacity use rate of 85% which is a rare occurrence in Turkey and the world.

With an approach based on high safety standards and environmentally friendly production that ensures fire safety by using polyurethane, PIR (polyisocyanate), rockwool insulation materials in its products, the company contributes to the construction of sustainable buildings.

In addition to producing a range of products that are good quality, safe and fire resistant, Assan Panel has also placed great importance on the application of its products. By successfully forming a qualified and professional distribution network in the country and abroad, the company has taken its quality service approach to our borders and beyond. Guiding the sector it operates in with a high quality approach, Assan Panel has documented this approach, which covers production, sale and after sales processes, by earning ISO 9001:2008 certification in 2006. As the owner of a TS EN 14509/AC:2009-TSE certificate since 2009 the company has secured all quality control processes, including the raw materials, production and dispatch processes.

As a natural result of the importance it places on sustainability and its environmental sensitivity the company achieved its ISO 14001 environmental management system certification in 2012. The Assan Panel Quality approach has also been documented beyond our borders with Gost-Russia and UkrSEPRO / Ukraine quality certificates. Assan Panel has also earned FM Global and LPCB certificates in fire, wind and impact endurance for its sandwich panels. Also the company was the first and only company to earn both the UL Greenguard and Greenguard Gold certificates with environmentally friendly products that do not compromise the indoor air mass. Assan Panel, the most preferred brand in the sandwich panel market with the objective of providing added value to Turkey, exports to 76 countries.



Housing 88 beds in a suitable layout for delivering highly efficient healthcare support,



facility is designed specifically for larger health emergencies impacting communities.



Bed configurations and the placement of adaptable,



larger rapid build constructions that are low cost to run.

# BENEFITS OF ASSAN PANEL HEALTHCARE FACILITIES

## FINANCIAL BENEFITS

- Cost saving identified at concept design stage
- Off the shelf designs available immediately
- Reduced construction programme, reduced financing
- Improved cash flow
- 70% decrease in time to build for relatively simple projects
- 50% decrease in complexity compared to building conventional buildings
- Fast commissioning
- Reduced snagging costs
- Fixed price compliance

## SUSTAINABILITY

- Reduced emissions from construction vehicles
- Reduced waste
- Reduced energy used on site
- Built-in high thermal performance
- Reduced operational energy
- Excellent airtightness
- Predictable performance
- Much reduced 'performance gap' issues

## QUALITY BENEFITS

- Geometric flexibility and accuracy
- Bespoke design for medical need
- Architect-friendly approach
- Suitable for 2 storeys
- Very high-quality finishes
- Reduced defects and snagging
- Improved health and comfort

## TECHNICAL BENEFITS

- Proven, low risk construction techniques
- In-house engineering support
- Safer, ultra-efficient build
- Reduced accidents on site
- Better sequencing of trades
- Meets and often exceeds all current building regulations
- True turnkey solutions - project management, manufacturing and construction services



## MEDICAL SERVICE BENEFITS

- Immediate deployment
- Rapid build of units = rapid build of capacity and business capability
- Technology designed to be delivered by deskilled workforce
- No disruption to patients
- No disruption to day-to-day business
- Repurpose of units at any time; multiple uses and longevity
- Flat packed technology for ease
- Highly mobile for redeployment to different business sites
- Quality, long-term build methodology
- Immediate additional capacity under full control at you location

## SPECIFICATIONS

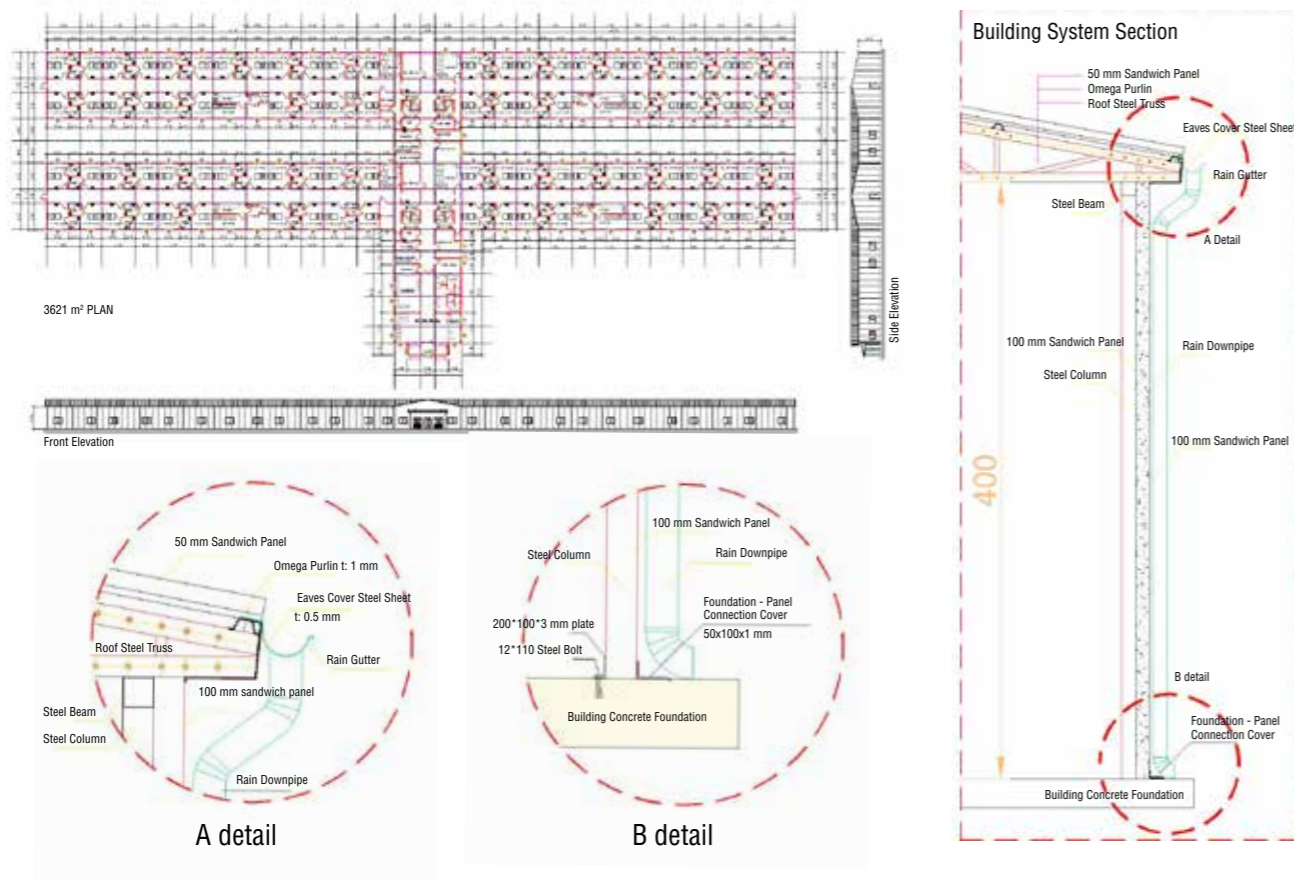
- Smart steel construction system - modular production
- High performance light steel
- Galvanized coat and durable cladding
- Fireproof thermal insulation
- 100% recyclable and/or reusable steel materials
- Exceeds European construction & insulation standards
- Manufactured to exact computer design
- Total control of design

## TECHNICAL SPECIFICATIONS

Overview of the 88-bed Healthcare Facility interior space:

- Total Area: 3621 m<sup>2</sup>
- 88 patient rooms
- Laundry units
- WC/Showers
- Entrance hall
- Waiting room
- Doctor/Nurse rooms
- Kitchen/Canteen
- Technical rooms
- Changing rooms
- Medical equipment rooms





## CONSTRUCTION ADVANTAGES

- Total control of manufacturing and installation
- Fast, economical mass production (high capacity)
- Fast, clean & simple construction and installation
- Reduced contractor requirements
- Strong & durable and exceeds Euro standards
- High resistance to weather elements
- Seismic resistance to earthquakes
- Enhanced design options due to steel strength
- Off-site fabrication is more efficient and lowers the cost
- Green credentials and environmentally friendly
- Easy, cost effective transportation and logistics
- Permanent and portable (re-usable) options

## DELIVERY MANUFACTURE & SHIPPING

Designed by Assan in TURKEY.

All components of the buildings are prepared for shipping in knockdown form (approx. 40 containers).

Components are ready for erection by a local company on site. Parts are packaged up for easy maneuver by the use of a forklift. Parts are packaged densely, taking up as little space as possible, allowing efficient transport.

Transport is accessible via land, sea and by air freight when time is limited.

## CONSTRUCTION/ASSEMBLING

88-bed Healthcare Facility can be assembled within 30 days by a team of 10-15 people.

A forklift is enough for unloading and assembling.

Low weight elements make construction more straightforward. Low maintenance elements make the structure less demanding.

Ceiling Height:	4 meter
Static Calculation:	According to 100 km/hour wind speed and 100 kg/m <sup>2</sup> snow load
Structural System:	The entire structural system of the building is made of lightweight galvanized steel profiles.
Metal Components:	Weldless, special formed galvanized steel sheet
External Walls:	100 mm In. Walls Rockwool sandwich panel cladding (100 kg/m <sup>3</sup> )
Internal Walls:	100 mm In. Walls Rockwool sandwich panel cladding (100 kg/m <sup>3</sup> )
Isolation of External Walls:	100 mm, 100 kg/m <sup>3</sup> density, A1 class, Fire retardant rockwool
Isolation of Internal Walls:	100 mm, 100 kg/m <sup>3</sup> density, A1 class, Fire retardant rockwool
Roof Type:	Gable roof type with 30% slope
Roof Covering:	50 mm (100 kg/m <sup>3</sup> ) Rockwool sandwich panels
Ceiling Insulation:	Mineral wool (Thickness: 100 mm dimensions: 8000 mm x 1200 mm)
Windows:	U-PVC Windows (4+12+4 mm Double Glazed and Double Function) Color: White
Doors:	External: Steel doors with panic bars, aluminum glazed doors Internal: Special wooden doors
Indoor Ceiling:	60x60 Rockwool acoustic suspended ceiling

GENERAL EXTERIOR PERSPECTIVE



GENERAL 3D PLAN



FRONT ELEVATION PERSPECTIVES



REAR ELEVATION PERSPECTIVES



**TUZLA FACILITY**



**ISKENDERUN FACILITY**



**BALIKESIR FACILITY**



**JORDAN FACILITY**



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