ARMAPAN

Your Panel Partnership

www.armapan.com

ABB
Authorized Panel Builder

—Summary

This catalog presents Armapan Panel Systems

— an ABB Authorized Panel Builder engineering and manufacturing low voltage panel systems in full compliance with IEC 61439 standards. Inside, you will find a comprehensive overview of our fields of activity, core technical capabilities, quality processes, project references, and export markets — everything you need to evaluate Armapan as your trusted panel partner.

Who is Armapan? 1

Why Armapan? 2

Fields of Activity 3

Core Capabilities 4

Quality & Compliance 5

Project References 6

Engineering Process 7

Export Markets 8

Contact & Company Info 9

Who is Armapan?

Armapan Panel Systems is a Turkey-based low voltage panel manufacturer founded on the principle of becoming a trusted, preferred, and respected institution in the electrical panel industry — continuously improving quality, design, and engineering capabilities with each passing year.

Built on the accumulated knowledge and hands-on experience of its founders, Armapan combines deep sectoral expertise with today's most advanced technologies, taking confident steps toward becoming a recognized brand in the energy sector.

With a trained and experienced management team and a specialized workforce, Armapan delivers customer-focused, high-quality engineering services across every stage of a project — from design and manufacturing to commissioning and after-sales support.

As an **ABB** Authorized Panel Builder, Armapan engineers and manufactures ABB System Pro E Power low voltage panel systems in full compliance with IEC 61439 standards — using only original ABB components and verified design processes.

Mission: To deliver reliable, engineering-driven panel solutions that combine quality products with precise technical execution — serving customers with speed, efficiency, and long-term reliability.

Vision: To continuously raise quality standards and expand engineering capabilities — delivering excellence across both domestic and international markets.

Over the years, Armapan has successfully completed projects across a wide range of sectors — from industrial facilities and energy infrastructure to commercial buildings and public institutions. Each completed project strengthens our growing portfolio and reflects our commitment to delivering engineered solutions that perform reliably under real-world conditions. Our expanding list of satisfied customers across Turkey and international markets stands as the most honest testimony to the quality and dedication we bring to every single project.

— https://www.linkedin.com/company/armapan

Why Armapan?

ABB Authorized Panel Builder Armapan holds official ABB Authorized Panel Builder status — meaning every panel is engineered and manufactured within ABB's certified framework, using only original ABB components. This is not just a credential; it is a guarantee of quality, traceability, and performance at every stage of production.

Full **IEC 61439** Compliance Every switchboard leaving our facility is designed, verified, and tested in strict accordance with IEC 61439 standards. From short-circuit calculations to thermal verification and Factory Acceptance Tests (FAT), compliance is built into our process — not added at the end.

10 Years of Industry Experience A decade of hands-on project experience across industrial, commercial, and infrastructure sectors has shaped Armapan into a reliable engineering partner. We bring proven expertise to every project, regardless of scale or complexity.

Export & International Markets Armapan delivers beyond borders. With active export operations serving markets across Central Asia and the Middle East — including Kazakhstan, Uzbekistan, and Iraq — we understand the demands of international projects and provide solutions that meet global standards.

Your Panel Partnership Armapan is more than a manufacturer — we are your end-to-end panel partner. From the first technical consultation to design, production, testing, and on-site commissioning, we stay with you at every step. When you choose Armapan, you gain a committed engineering team that treats your project as its own — on time, on spec, and built to last.

Fields of Activity

Main Distribution Boards (MDB)

Armapan engineers and manufactures main distribution switchboards on the ABB System Pro E Power platform — rated up to 6300A and withstanding short-circuit currents up to 120kA. Designed to fulfill all electrical installation requirements in terms of protection degree, segregation form, and electrical characteristics in accordance with the latest international standards, these switchboards operate in perfect synergy with all ABB low voltage equipment including Tmax XT moulded-case circuit breakers and Emax 2 air circuit breakers.

Fields of Activity

Motor Control Centers (MCC)

Integrated motor control solutions designed for industrial facilities, combining protection, control, and monitoring functions within a single, space-efficient enclosure — built on ABB original components for maximum reliability and compatibility.

Fields of Activity

Power Control Centers (PCC)

High-capacity power control panels engineered to manage and distribute electrical power across large-scale industrial and infrastructure projects. Configured to meet project-specific electrical and mechanical specifications with full IEC 61439 compliance.

Fields of Activity

Distribution & Control Panels

Custom-designed distribution and control panels built to project requirements — from standard configurations to complex multi-feeder layouts across commercial, industrial, and energy sector applications. Every panel exits our facility verified, tested, and ready for commissioning.

Core Capabilities

ABB Original Components Only

Armapan uses exclusively original ABB components in every panel manufactured. All equipment — including Tmax XT moulded-case circuit breakers, Emax 2 air circuit breakers, and System Pro E Power busbar systems — is sourced directly through ABB's official supply chain. This approach guarantees full component compatibility, complete traceability, and long-term operational performance across every project.

IEC 61439 Design & Verification

Every panel design is validated in accordance with IEC 61439-1 and IEC 61439-2 using three recognized verification methods: testing, comparison, and calculation. The process covers all critical parameters including IP protection class, dielectric strength, internal segregation form, EMC compliance, and protective circuit continuity. A complete Design Verification Dossier is produced for every project.

Short-Circuit & Thermal Calculations

Short-circuit calculations verify the thermal and dynamic stability of every component under fault conditions. By applying the Rated Diversity Factor (RDF), realistic load scenarios are modelled to avoid oversizing while maintaining full safety margins. All busbars and conductors are calculated and verified to remain within temperature-rise limits in accordance with IEC 61439-1, Clause 10.10.

Factory Acceptance Tests (FAT)

Every panel leaving our facility undergoes a comprehensive Factory Acceptance Test before shipment. The FAT process includes functional tests, dielectric tests, protective circuit continuity, circuit verification, and project conformity checks. No panel is dispatched without completed and documented test results — what arrives on site is verified, tested, and ready for commissioning.

Quality & Compliance

1. IEC 61439-1 & IEC 61439-2 — The Global Standard

The international benchmark for low voltage assemblies Armapan engineers and manufactures every panel in full compliance with IEC 61439-1 (General Rules) and IEC 61439-2 (Power Switchgear and Controlgear Assemblies). These standards define the design verification, routine verification, temperature-rise limits, short-circuit withstand ratings, and safety requirements applicable to all low voltage assemblies including MDB, MCC, and PCC panels. Compliance with IEC 61439 is not a label — it is a structured, documented, and verifiable process applied to every project.

2. Design Verification

Proven by testing, comparison, and calculation Every Armapan panel undergoes design verification through one or a combination of three internationally recognized methods: direct testing, comparison with a previously verified reference design, and analytical calculation. Verification covers all critical parameters: IP protection class, dielectric strength, temperature-rise limits, short-circuit withstand strength, internal segregation form, EMC compliance, and protective circuit continuity. A complete Design Verification Dossier is issued for every project.

3. Routine Verification

Every single panel — checked before dispatch In addition to design verification, every manufactured panel undergoes routine verification prior to shipment. This includes functional testing, dielectric testing, protective circuit continuity checks, wiring inspection, and project conformity review. Routine verification ensures that each individual panel — not just the design — conforms fully to the approved specifications and IEC 61439 requirements.

4. Factory Acceptance Test (FAT)

No panel leaves without passing Every panel is subject to a comprehensive Factory Acceptance Test before delivery. The FAT process is conducted in the presence of the customer or their representative when required, and covers all agreed test parameters. Full test documentation is provided with each delivery — ensuring complete traceability from manufacturing through commissioning.

5. ABB Authorized Panel Builder Status

Quality backed by the world's leading electrical manufacturer Armapan's ABB Authorized Panel Builder status is not only a mark of commercial partnership — it is a quality framework. It requires adherence to ABB's manufacturing guidelines, use of original ABB components, and compliance with ABB's verified design systems. This status is regularly audited and renewed, providing customers with ongoing assurance of consistent quality standards.

Every panel we build is a documented commitment to safety and performance

Project References

Industrial Facilities

Armapan has successfully completed panel projects across a wide range of industrial facilities including manufacturing plants, food processing facilities, automotive facilities, and logistics centers. Each project was engineered and manufactured to project-specific requirements, delivering reliable power distribution solutions built on the ABB System Pro E Power platform in full compliance with IEC 61439 standards.

Energy & Infrastructure

Armapan has delivered main distribution and power control panel solutions for energy infrastructure projects including power generation facilities, renewable energy plants, water treatment facilities, and large-scale infrastructure installations. These projects demand the highest levels of short-circuit withstand strength, thermal performance, and long-term operational reliability — all of which are built into every Armapan panel as standard.

Commercial Buildings & Shopping Malls

Armapan has engineered and installed panel systems for commercial buildings, office complexes, shopping malls, and mixed-use developments. These projects require compact, high-performance switchgear solutions that combine safety, flexibility, and ease of maintenance — delivered through the modular ABB System Pro E Power platform.

Public Institutions & Hospitals

Armapan has completed panel projects for public institutions, government buildings, universities, and healthcare facilities including hospitals. In these environments, continuity of supply, operational safety, and compliance with international standards are non-negotiable — and form the foundation of every solution Armapan delivers.

A growing portfolio of completed projects — built on engineering integrity and ABB quality

Engineering Process

1. Technical Consultation & Inquiry
Understanding your project before we engineer it Every project begins with a detailed technical consultation. Armapan's engineering team works closely with the client to understand the project scope, site conditions, load requirements, protection needs, and applicable standards. This stage ensures that the right solution is defined before any design work begins — saving time, cost, and complexity downstream.

2. Technical Design & Engineering
Precision engineering from the first drawing Based on the project requirements, Armapan's engineers develop a complete technical design including single-line diagrams, busbar sizing, short-circuit calculations, thermal analysis, internal segregation form selection, and IP protection class determination. All designs are developed in full compliance with IEC 61439-1 and IEC 61439-2, using ABB's verified design framework and engineering tools.

3. Offer & Project Approval
Transparent, detailed, and fully documented A comprehensive technical offer is prepared, covering panel specifications, component lists, dimensional drawings, delivery schedule, and test plan. All ABB original components are specified by model and catalog reference. The offer is submitted for client review and approval before production begins — ensuring full alignment on technical and commercial terms.

4. Manufacturing
Built to spec. Built to last. Once the project is approved, manufacturing begins in Armapan's production facility using exclusively original ABB components. Every panel is assembled in accordance with ABB's manufacturing guidelines and IEC 61439 requirements. Internal wiring, busbar installation, component mounting, and cable management are carried out by trained and experienced panel builders under strict quality control.

5. Quality Control & Testing
Every panel verified before it leaves our facility Each completed panel undergoes a comprehensive quality control process including design verification review, routine verification checks, and a full Factory Acceptance Test (FAT). Tests cover functional operation, dielectric strength, protective circuit continuity, wiring inspection, and project conformity. Full test documentation is prepared and provided to the client.

6. Delivery & Logistics
Safe, on time, and fully documented Completed and tested panels are carefully packaged and prepared for delivery. Armapan manages the logistics process to ensure panels arrive on site in perfect condition, accompanied by full technical documentation including as-built drawings, test reports, component certificates, and operation & maintenance manuals.

7. Commissioning Support
We stay with you until the system is live Armapan provides on-site commissioning support to ensure panels are correctly installed, connected, and energized. Our engineering team is available to assist with final checks, commissioning tests, and handover — ensuring a smooth transition from delivery to full operation.

From first consultation to final commissioning — a structured, transparent, and accountable workflow

Export Markets

Our International Reach

Armapan operates as an export-oriented panel manufacturer, delivering ABB System Pro E Power low voltage panel systems to projects across the globe. With deep experience in cross-border project management, international logistics, and global technical standards, Armapan is a trusted engineering and manufacturing partner for projects in diverse geographies and demanding markets worldwide.

Why Export?

Quality engineering and international standard compliance know no borders. Every Armapan panel — IEC 61439 certified, built with original ABB components, and accompanied by comprehensive FAT documentation — is designed and manufactured to perform reliably on any project, anywhere in the world. This universal commitment to quality positions Armapan as a preferred manufacturer for global projects.

The Armapan Advantage in International Projects

Global projects demand technical standards, documentation requirements, and quality assurances that many local manufacturers cannot meet. Armapan is positioned to deliver exactly that. With ABB Authorized Panel Builder status, full IEC 61439 compliance, and comprehensive technical documentation capability, we have the engineering infrastructure to meet the full requirements of any international project — from specification to site.

Delivery & Export Capabilities

Armapan manages the complete export process including packaging, customs documentation, export declarations, and international freight coordination. Panels are delivered under internationally recognized trade terms, accompanied by complete technical documentation — ready for installation upon arrival at the project site.

Why International Clients Choose Armapan

International projects require more than a compliant product — they demand a reliable engineering partner who understands cross-border logistics, documentation requirements, and the technical expectations of global projects. Armapan delivers on all fronts: ABB authorized manufacturing, full IEC 61439 compliance, complete technical documentation, and end-to-end project support from our facility to the project site.

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Contact & Company Info

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Reliable panel systems engineered in accordance with ABB standards.We are ready to support your project — from first inquiry to final commissioning.

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