

# CATALOGUE ACROW BOARD

**NEXT-GENERATION** FORMWORK SOLUTION  
FOR SMART CONSTRUCTION.

SINCE 2017

**ACROW** **AB**  
Building Products

# NEXT-GENERATION FORMWORK SOLUTION FOR SMART CONSTRUCTION

ABP is a pioneering manufacturer specializing in high-performance polymer composite boards. Backed by a strong commitment to research and development, we have positioned ourselves among the global players in the polymer composite industry.

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It represents a technological leap forward in construction formwork. Engineered for durability, sustainability, and high performance.

It's the smart choice for contractors, developers, and builders who demand more from their materials.

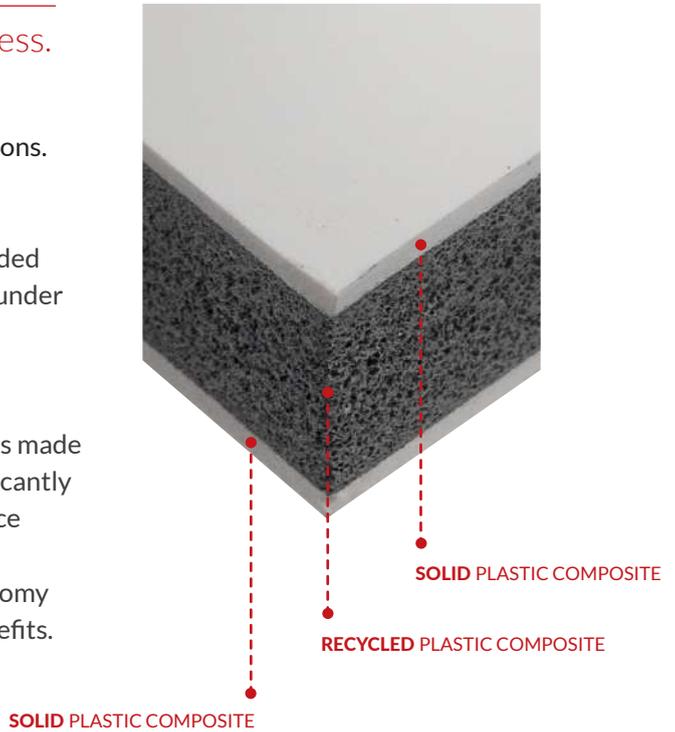
## M-BOARD

Built to withstand more pressure and stress.

### Increased Durability:

Perfect for heavy-duty use across multiple applications.

- **Three-Layer Design**  
To provide enhanced structural strength, extended service life, and excellent dimensional stability under demanding conditions
- **Sustainability**  
ACROW Board is a sustainable material which is made of up to 50% recycled content, helping to significantly reduce waste, energy consumption, and resource demand. Its durability, recyclability, and cost-effectiveness contribute to a circular economy and provide a wide range of environmental benefits.

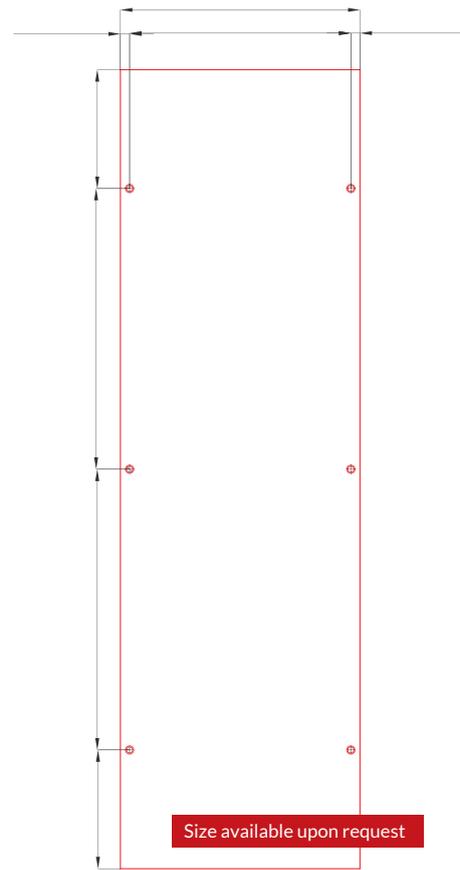


## PRODUCT BENEFITS

- ✓ Cost Effective
  - ✓ Durable
  - ✓ Easy to install
  - ✓ Fire Retardant
  - ✓ Weather Resistant
  - ✓ Water Resistant
  - ✓ Easy to Clean
  - ✓ Termite resistant
- We can provide our clients with cut to length according to the required measurements, increasing efficiency and avoiding any waste.



## READY TIE ROD HOLES



REFERENCE	SPECIFICATIONS
Dimensions (mm)	Customizable upon request Length: Up to 6000mm, width: Up to 1250mm Thickness: 8mm, up to 30mm with intervals each 0.50mm
Tolerance (mm)	Length $\pm 0.5$ mm/m Width $\pm 0.5$ mm/m Thickness $\pm 0.3$ mm
Number of uses in framed formwork panels	up to 200 times (According to Handling)
Number of uses in traditional formwork system	Up to 50 times (According to Handling)
Stripping	No release agent required in standard conditions
Processing	On-site: functions comparable to plywood. Industrial production: optimized for precise cutting and drilling

## TECHNICAL SPECIFICATIONS

REFERENCE	SPECIFICATIONS						TEST METHOD
Thickness	9mm	12mm	15mm	18mm	21mm	27mm	
Modulus of Elasticity (MPa)	3500	3500	3500	2500	2000	1800	ASTM D790 - 17
Static Bending (MOR) (MPa)	52	45	38	31	24	18	ASTM D 143-14
Allowable Stresses (Fall) (MPa)	28.43	24.60	20.78	16.95	13.12	9.84	ASTM D 143-14
Tensile Stress (MPa)	15	15	13	11	11	11	ISO 527- 1:2019
Vicat Softening Temperature (°C)	85°C						ASTM D 1525-17
Water Absorption Rate (%)	<0.09%						ASTM D570-22
Fire Retardant	Grade A						ASTM-E 84

## BOARDS IN BUNDLE

THICKNESS	9MM	10MM	11MM	12MM	15MM	18MM	20MM	21MM	25MM
NUMBER OF Boards in Bundle	100	90	81	75	60	50	45	42	36

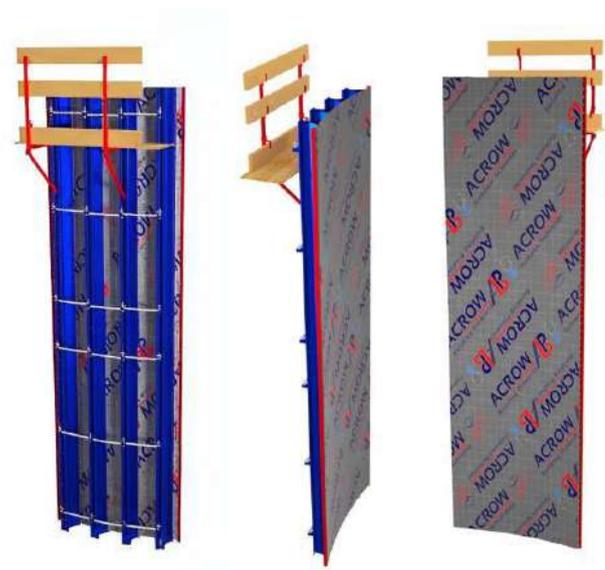


**ASK FOR UNLOADING CONTAINERS METHOD STATEMENT**

## CURVIFORM

The CURVIFORM is an engineered innovation from our R&D team, placing us among the leading manufacturers of genuine curved-surface panels. It redefines formwork flexibility by removing the need for cutting or soaking.

With a minimum bending radius of 20 cm, CURVIFORM delivers exceptional versatility, efficiency, and reliability for curved applications across various industries.

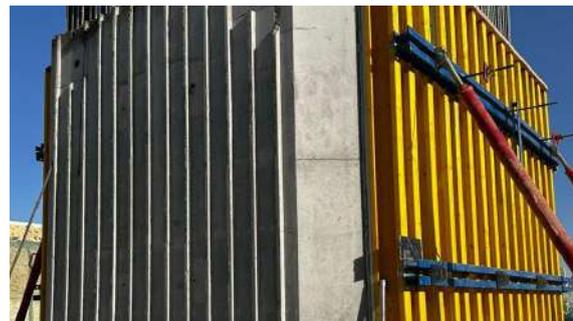


## CHAMFER APPLICATION

- In concrete construction, precision makes all the difference. ABP proudly offers a specialized solution for clean, accurate concrete edges through the production of Chamfer Boards—plastic formwork panels with integrated chamfered edges.

ABP offers custom-made chamfered boards, tailored to each project:

- Available Sizes: customizable
- Thickness: 8 mm – 30 mm
- Chamfer Angle: customizable °
- Edges: 1, 2, or all 4 sides chamfered



## SCAFFOLD WALKWAYS PLANKS

Anti-Slippery is a high-performance and reliable alternative to traditional materials, specifically engineered to withstand the challenges of demanding construction environments. It stands out with key features that make it the ideal choice for a wide range of applications.



### Superior Anti-Slip Properties

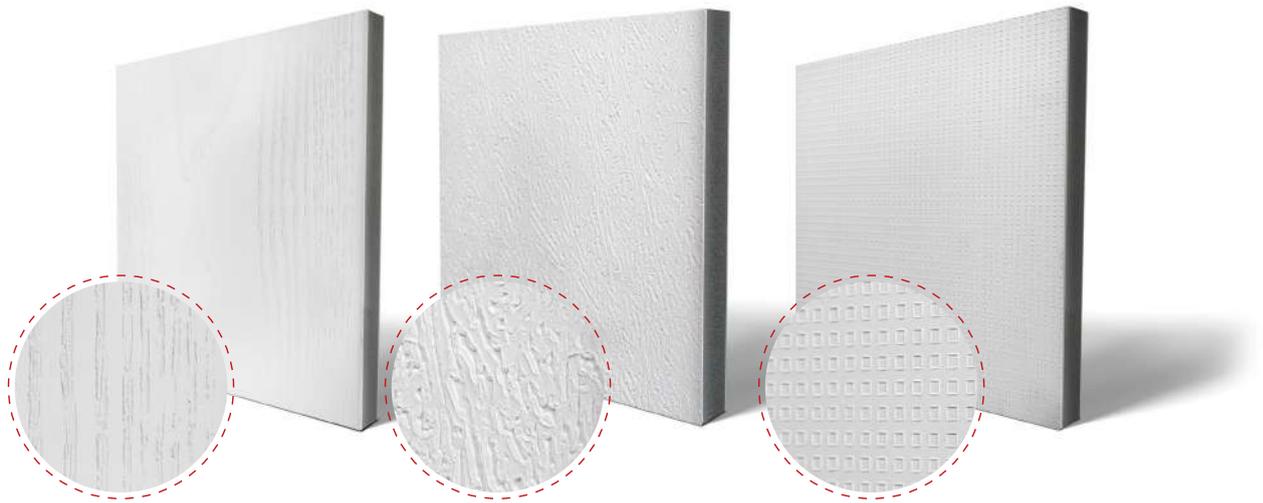
Its textured or studded surface provides excellent grip even in the harshest conditions such as rain, mud, oil, or debris, significantly reducing the risk of slips and falls.

### Exceptional Durability and Longevity

Highly resistant to impact, chemicals, and UV radiation. It does not rot, rust, or corrode, offering a longer service life and minimizing the need for frequent replacement.

### Weatherproof and Low Maintenance

Non-absorbent and unaffected by water exposure. Cleaning is quick and easy – usually just a simple rinse with water is enough.



REFERENCE	SPECIFICATIONS
Dimensions (mm)	Customizable upon request Length: Up to 6000mm, width: Up to 1250mm Thickness: 8mm, up to 30mm with intervals each 0.50mm
Tolerance (mm)	Length $\pm 0.5$ mm/m Width $\pm 0.5$ mm/m Thickness $\pm 0.3$ mm

### TECHNICAL SPECIFICATIONS OF (ANTI-SLIP BOARD)

REFERENCE	SPECIFICATIONS						TEST METHOD
Thickness	9mm	12mm	15mm	18mm	21mm	27mm	
Modulus of Elasticity (MPa)	3500	3500	3500	2500	2000	1800	ASTM D790 - 17
Static Bending (MOR) (MPa)	52	45	38	31	24	18	ASTM D 143-14
Allowable Stresses (Fall) (MPa)	28.43	24.60	20.78	16.95	13.12	9.84	ASTM D 143-14
Tensile Stress (MPa)	15	15	13	11	11	11	ISO 527- 1:2019
Anti-Slippery Class (KN/m2)	Good > 45 PTV						BSEN13036-4:2011
Max. Live Loads (KN/m2)	2KN/m <sup>2</sup> Class 3						BSEN12811-1:2003
Vicat Softening Temperature (°C)	85°C						ASTM D 1525-17
Water Absorption Rate (%)	<0.09%						ASTM D570-22
Fire Retardant	Grade A						ASTM-E 84
Processing	On-site: functions comparable to plywood. Industrial production: optimized for precise cutting and drilling						

## WARRANTY



### ACROW Long-Term Warranty 2 Years of Guaranteed Performance

At ABP, our plastic composite boards are engineered to withstand the toughest site conditions while consistently delivering superior performance. Confident in our technology, we back every ACROW Board with a 2-year warranty covering its key performance parameters.



Excellent Dimensional Stability



Enhanced UV Stability



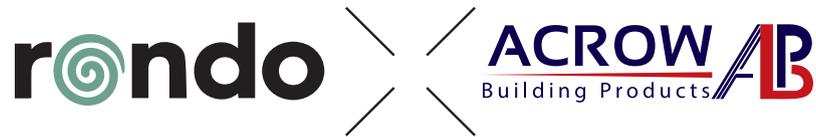
Waterproof and Moisture-Resistant



Alkali Resistance

With ACROW board, you're not just buying panel — you're investing in reliability, sustainability, and cost efficiency

## MAINTENANCE & REPAIR GUIDELINES



### rondofill MASTER SET

The ACROW Board repair kit for minor damage to boards  
rondofill is the optimal repair solution for scratches and minor damages.



#### INCLUSIONS:

- rondofill repair gun 300 W
- rondofill cooling iron
- rondo swallowtail milling cutter
- 18 pieces repair sticks rondosticks

# rondobox

## THE HANDY COMPLETE SOLUTION, READY FOR USE

The rondobox is the complete system for formwork damage.

With the rondobox they are ready for use immediately. The rondobox contains all the necessary parts needed to carry out formwork repairs.



### INCLUSIONS:

- Hand tools, complete with accessories (Art. No. 9000)
- Cylinder head drill 40.1 mm diameter for rondoplex 40.2 mm repair plates (Art. No. 400 W)
- Cylinder head drill 60.1 mm diameter for rondoplex 60.2 mm repair plates (Art. No. 600 W)
- 500 rondoplex repair plates 40,20 mm diameter
- 300 rondoplex repair plates 60,20 mm diameter
- 2 HM inserts/dreamer plates 40.1 mm diameter (Art. No. 400 RPL)
- 2 HM insert/dreamer plates 60.1 mm diameter (Art. No. 600 RPL)
- 4 HM pre-cutter (Art. No. 4/600 WPLV)
- 1 solid perHM centering tip (Art. No. 4/600 ZSP)
- 1 Torx screwdriver, large (Art. No. 4/600 SCHDG)
- 1 Torx screwdriver, small (Art. No. 4/600 SCHDK)
- Screwdriver, large (Art. No. 4/600 SCHDM)
- 1 D-3 glue in plastic bottle to 600 g (Art. No. 600 WL)
- 1 resin releaser in a container of 1 litre (Art. No. 600 HL)
- Repair set sheet case (Art. No. 4/600 BK)



## REFERENCES

Country: Jordan  
 Project name: Marg Al-hammam and Al-Ersal Intersection  
 Product: Curviform



The Marg Al-Hamam and Al-Ersal Intersection Bridge Project presented several challenges — primarily the need for a flawless fair-faced concrete finish and the construction of curved bridge segments with high dimensional accuracy. Traditional formwork systems often struggle to maintain surface quality and geometric precision when handling complex shapes and repetitive casting cycles.

By utilizing ACROW Board in table form systems, combined with Curviform applications, the project team achieved outstanding results.

### THE INTEGRATED SYSTEM ENSURED:

- Smooth, mirror-grade concrete surfaces with minimal finishing or surface treatment required.
- Precise execution of curved bridge elements, maintaining both structural integrity and aesthetic appeal.
- High repetition performance, allowing multiple reuse cycles without deformation or loss of quality.
- Reduced cycle time and labor costs, enhancing overall site productivity and efficiency.

This synergy between ACROW Board and Curviform provided a reliable, high-performance formwork solution, enabling the Marg Al-Hamam and Al-Ersal Intersection to meet demanding engineering standards while delivering architectural excellence.

Country: Egypt  
Project name: The Dome  
Product: Acrow Board



The Dome Project stands as a testament to modern architectural creativity and engineering finesse. At the heart of its execution was the innovative use of Acrow Board — a high-performance plastic board solution that brought precision, and efficiency to the complex dome structure.

### **10MM ACROW BOARD: LIGHTWEIGHT, STRONG, AND VERSATILE**

For this project, 10mm-thick Acrow Board were used to shape the dome. Confirming the material's excellent machinability and structural integrity:

### **Solution**

To meet the dome's exact specifications, a CNC router was employed to shape the Acrow Board sheets with high accuracy. The boards responded perfectly to the cutting process, allowing for:

- Clean, sharp edges
- Custom profiles and angles
- Precise fitting of each panel

This enabled a seamless assembly of the dome components, reducing time on-site and ensuring a perfect structural match.

Its resistance to moisture, cracking, and deformation made it the ideal material for both interior and exterior dome applications.

Country: Croatia  
 Project name: Ricina Viaduct-Left Facility  
 Product: Acrow Board + Curviform

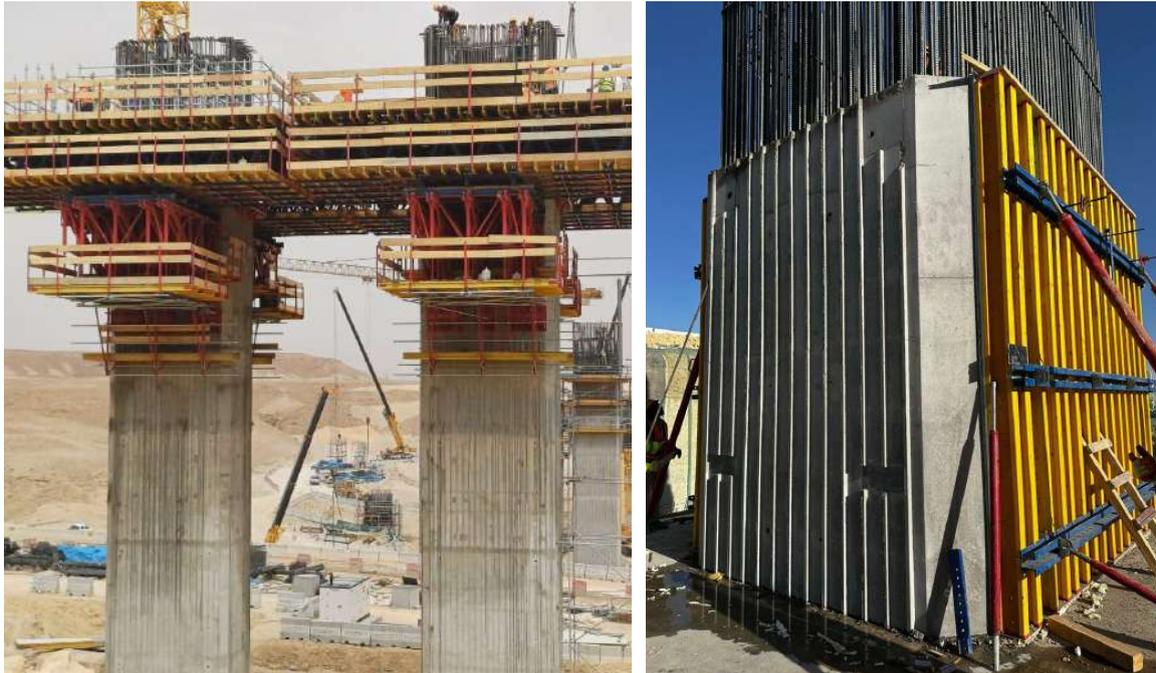


The Ricina Viaduct project in Croatia presented several challenges, primarily the need for a flawless concrete finish and the construction of complex curved structures. Traditional formwork often struggles with maintaining dimensional accuracy and achieving a mirror-like surface, especially when curves and repeated pours are involved.

**BY UTILIZING ACROW BOARD COMBINED WITH CURVIFORM APPLICATION, THE PROJECT TEAM WAS ABLE TO DELIVER EXCEPTIONAL RESULTS. THE SYSTEM ENSURED:**

- Smooth, mirror-like concrete surfaces with minimal finishing required.
- Seamless execution of curved elements, maintaining structural accuracy and aesthetic appeal.
- Efficient repetition of pours, enhancing productivity while reducing time and costs.
- This integration of Acrow Board and Curviform provided a reliable, high-performance solution, enabling the Ricina Viaduct to meet both engineering demands and architectural excellence.

Country: KSA  
Project name: AL-TAIF ROAD BRIDGES  
Product: Acrow Board + Chamfer Application



The Prince Mashaal Bridge – Taif Road Project presented significant engineering and architectural challenges – particularly the need for a vertically patterned fair-faced concrete finish and precise geometric alignment across both piers and deck structures. Traditional formwork systems often struggle to maintain this balance of accuracy, durability, and aesthetic quality.

By implementing ACROW Board with custom chamfered profiles and a cantilever carriage system, the project team achieved outstanding structural and visual results.

The integrated system ensured:

- Architectural precision – custom-designed ACROW Board chamfered profiles delivered sharp vertical patterns and a uniform surface texture.
- Superior concrete finish – the polymer-based ACROW Board panels produced a smooth, consistent fair-faced finish with minimal surface treatment.
- Optimized efficiency – the cantilever carriage system with ACROW Board sheeting reduced maintenance needs and enabled fast, repeatable casting cycles.
- Extended reusability – durable panel composition allowed multiple reuses without deformation or loss of quality.

This project exemplifies ACROW Building Products' differentiation capability to deliver advanced formwork shuttering panel solutions that combine architectural requirements with long-term site efficiency and reliability, ensuring technical excellence and durable performance.

Country: Philippines  
 Project name: Malolos-Clark Railway Project (MCRP)  
 Product: Acrow Board + Curviform Application



Malolos-Clark Railway Project (MCRP) – one of Southeast Asia’s largest and most ambitious railway developments – demanded a high-precision formwork system capable of meeting the project’s strict concrete quality standards and long-span repetition requirements. Extending across multiple viaduct sections, the project required consistently smooth, fair-faced concrete finishes and dimensional accuracy to ensure structural continuity along the elevated tracks.

By implementing ACROW Board across the viaduct deck formwork system, the construction team achieved remarkable results in both performance and finish quality.

The integrated solution delivered:

- Exceptional concrete finish – ACROW Board’s polymer-based surface produced uniform, mirror-grade concrete across hundreds of repetitive pours, eliminating the need for surface refinishing.
- High-precision alignment – the system maintained geometric accuracy across long spans, ensuring seamless connections between successive deck segments.
- Faster construction cycles – the lightweight, easy-to-handle panels accelerated formwork installation and stripping, improving productivity on site.
- Sustainable durability – the robust composite material enabled multiple reuses without warping, degradation, or loss of performance.

This project highlights ACROW Building Products’ contribution to the NSCR’s success – delivering an innovative, high-performance formwork solution that combines precision, durability, and efficiency to support one of the region’s most transformative infrastructure developments.

## SUSTAINABILITY

### Building a Safer and Greener Future with ACROW Board

Sustainability in construction is no longer optional – it is a responsibility. The building industry is one of the largest consumers of natural resources and has a significant impact on global forests, energy consumption, and waste generation. At Acrow Building Products, we believe that smarter construction choices can change that.

That is why **ACROW Board** was engineered: not only to outperform plywood, but to transform the way the world builds. With longer life cycles, reduced waste, and safer work environments, ACROW Board sets a new benchmark for sustainable construction practices.

#### EXTENDING PRODUCT LIFE, REDUCING WASTE

One of the most powerful contributions ACROW Board makes to sustainability is its exceptional reusability.

- Plywood generally deteriorates after only a few cycles of use, as it tends to splinter, swell, and lose its structural integrity over time.
- **ACROW Board delivers 50+ uses**, often far more when properly handled.



This dramatic improvement means that a single panel of ACROW Board can replace **dozens of plywood sheets**, cutting down on the constant need for replacements.

Every project that switches from plywood to ACROW Board prevents unnecessary waste, reduces demand for raw materials, and lowers the burden on landfills.

**In simple terms: fewer boards used, fewer trees cut, less waste generated.**

#### PROTECTING GLOBAL FORESTS

The traditional reliance on plywood has contributed to extensive deforestation worldwide. This deforestation occurs annually to supply plywood to the construction industry with wood-based panels, putting enormous pressure on ecosystems and biodiversity.

By replacing plywood with a durable, recyclable alternative, **ACROW Board directly reduces deforestation pressures**. Each project that chooses ACROW Board over plywood translates into:

- **Fewer trees harvested** for short-lived construction panels.
- **Reduced deforestation rates**, allowing forests to regenerate.
- **Support for sustainable forestry practices**, such as selective logging, replanting, and maintaining biodiversity.



Choosing ACROW Board is not just a technical decision — it is a commitment to protecting forests for future generations.

### SAFER CONSTRUCTION SITES ARE SUSTAINABLE SITES

Safety and sustainability are interconnected. Unsafe products increase waste, delays, and risks — all of which consume more resources.

ACROW Board is designed with **safety built in**:

- **Consistent dimensions** that fit seamlessly, reducing cutting waste and errors.
- **Non-slip surface options** for safer handling on wet or challenging sites.
- **Resistance to splintering or breaking**, unlike plywood that often creates hazards after minimal use.
- **Durability under water, UV, and chemical exposure**, ensuring long service life without degradation.



A safer job site means fewer accidents, fewer product failures, and more efficient resource use. Every accident prevented or rework avoided reduces wasted time, energy, and materials — making construction both safer and greener.

## ENERGY AND RESOURCE SAVINGS

The ripple effect of ACROW Board's performance extends far beyond the panel itself. Its smooth, uniform surface produces **flawless concrete finishes**, which eliminates the need for costly post-processing, patching, or surface correction.

This means:



- **Less cement, plaster, and finishing materials consumed.**



- **Fewer man-hours spent on rework.**



- **Reduced use of machinery and energy.**

In large-scale projects, these savings multiply across thousands of pours, contributing to measurable reductions in carbon footprint and overall environmental impact.

## DURABILITY = LOWER CARBON FOOTPRINT

The carbon footprint of any construction material is linked to how often it needs to be produced, transported, and disposed of. Because plywood fails quickly, the cycle of production and waste is continuous.

ACROW Board breaks that cycle. Its **extended service life** means:

- **Fewer shipments** needed for replacements, reducing transport emissions.
- **Lower production demand** compared to the massive quantities of plywood consumed globally.
- **Reduced disposal volume**, easing the environmental burden of waste management.

Over the life of a project, the difference is significant. Contractors save costs, and the planet saves resources.

# FOOTPRINT AND EXPANSIONS







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