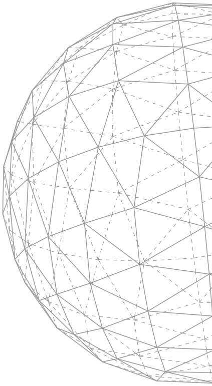
klar®

RIGID PVC CORRUGATED PANELS



Ideal for
Ag Buildings
Cladding / Roofing
Applications

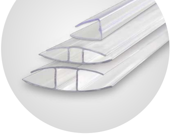
ABOUT US

Klar is a reliable, leading manufacturer, multinacional distributor, and experienced exporter of superior thermoplastic products for architectural, industrial, commercial, agricultural, and DIY construction projects. We are committed to the highest quality standards and product innovation as well as an excellent US-based customer service so you can rely on a rapid response, logistics management and short lead times.

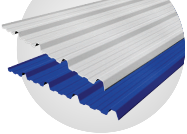
Our brands are synonymous of superior quality, durability, sustainability, and value in all the markets and countries we serve.

OUR PRODUCT LINES

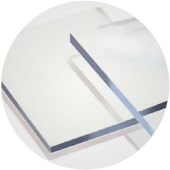
Polycarbonate
Twinwall sheets



Polycarbonate
Profiles &
Connectors



PVC Ribbed
& Corrugated
Panels

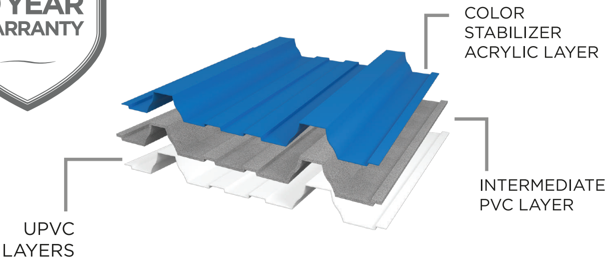


Polycarbonate
solid sheets

RIGID PVC RIBBED CORRUGATED PANELS by KLAR

Our **Rigid PVC panels** are used by Ag builders as the preferred alternative material for interior roofing and cladding. Why? Quite simple. Our panels are made with 100% Rigid PVC resin so they will never rust and are resistant to corrosion from chemicals, humidity, and micro-biologicals. Moreover, having a multilayer structure, our 'Thermo-acoustic' panels offer an excellent R-value (excellent insulator for heat transferability) and noise absorbent properties that add value to the structures benefiting both the property owner and the installer. Contact us for more information at **sales@klar.us.com www.klar.us.com.**

10 YEAR WARRANTY



Panels will never rust.

Excelent “R-value” (very low heat transferability, so much better insulation).

Noise reduction up to 12 decibels.

Fire resistant (Class B1: no drip, no spread).

Resistant to humidity, chemical, and microbiologicals (all the latter found in farm structures).

UV protected for a very long lifetime.

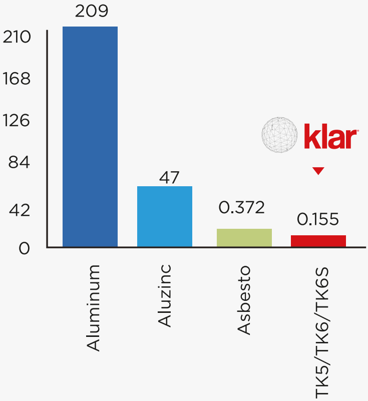
Easy to install and maintain (soap & water).

THERMAL CONDUCTIVITY

(W/m*k) & R-VALUE (m^2*k/W)

Our Rigid PVC Panels are efficiently used for interior roofing, cladding, and partitions inside farm buildings. Due to their ‘thermo-insulation’ properties, farms experience a more stable indoors temperature utilizing less resources. Therefore, the benefit is for the animals, farmers, and employees as well as for the business productivity and cost (lower heating bills during winter days and lower A/C during summer days).

Material	Width (mm)	Thermal Conductivity (W/m*k)	Thermal resistance (m^2*k/w)R	Thermal Transmittance (W/m^2*k)U
RIGID PVC RIBBED CORRUGATED **by Klar**	1.50	0.155	0.0097	103.33
	2.00	0.155	0.0129	77.50
	2.50	0.155	0.0161	62.00
	3.00	0.155	0.0194	51.67
	3.50	0.155	0.0226	44.29



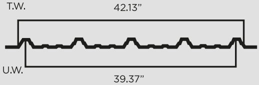
The R-VALUE will depend on the thickness of the panels as shown on the above chart.

APPLICATIONS

Sheds, Carports, Garages, Barns, Calf barns, Cattle shades, Chicken coops, Dog kennels, Pole barns, Barndominiums, Carwash, etc.

PRESENTATIONS

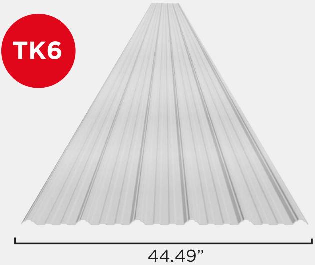
TK5

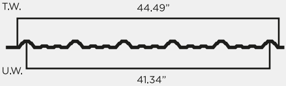


Available colors: Red and white ● ○	Customized Colors upon request*: Blue and green ● ●

*Subject to minimum quantity

TK6





Available colors: White ○	Customized Colors upon request*: Red, blue, green ● ● ●

*Subject to minimum quantity

RECOMMENDATIONS

- Pre-drill or use self-drilling screws on panels. Hole diameter on panels must be 4mm larger than the diameter of the screw to allow yield for dilatation.
- To ensure proper installation use Klar’s self-drilling fastener kits or similar with EPDM head-washer and caps.
- Avoid using rigid or cement sealants at drilling points. Instead, consider flexible sealants that may allow yield during panel expansion.
- To avoid potential indoors condensation on panels, consider the use of a proper natural or artificial ventilation system.
- It is not recommended to install panels on top of flat surfaces such as false ceilings of any kind (drywall, wood, or the like) because this may create a ‘heat chamber’ that may alter or deform the product.
- Make sure to follow the manufacturer’s recommendations

on technical spec sheet and installation manual to avoid warranty issues.

Learn how to install Klar PVC & Corrugated Panels

STEP 1: CHECKING STRUCTURE DIMENSIONS

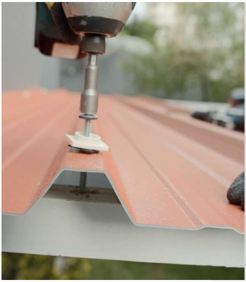
Make sure to have exact measurements of the structure and distance between supports as indicated in our installation manual.

STEP 2: CHECK MEASUREMENT OF PANELS

Make sure panels have the correct measurements for the space being covered. If needed, cut panels to fit the frame. Remember to use low revolution emery and untwined discs for a smooth cut.

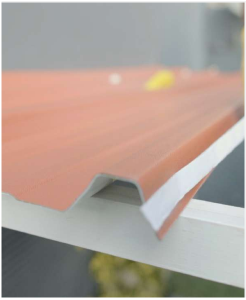
STEP 3: BEGIN INSTALLATION

Begin installation from the lower corner in the wind's opposite direction. Avoid placing heavy objects on top of panels to prevent leveling distortions.



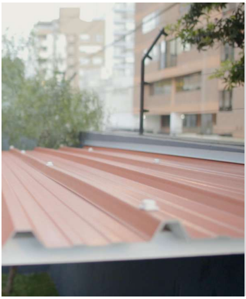
STEP 4: SECURING PANELS

When securing the first panel consider fixing the first, center, and last ridge using 3" screws. Lay down the first panel on the support structure, check alignment and make sure it is squared against purlins. When drilling, make sure to do it in a 90-degree angle against the panel.



STEP 5: FINISHING THE JOB

It is very important to have the first panel squared against purlins as it will be your guide for the next ones. Continue to the next panel by overlapping a ridge. In windy areas it is recommended to overlap 2 ridges. Join the overlaps at the intersected ridges using self-drilling screws until properly secured.



STEP 6: OVERLAP THE RIDGES

After finishing the sequence of panels, aligment of panels must be double checked prior to the installation of the finishing accessories.

Secure the ridge cap using a fixing set. This time the screws should go where a support or lower support is available.

ACCESSORIES

KLAR FITTING SET:

Zinc-coated self-drilling 3” screws #14 + EPDM Washer + PVC Head.

Double-sided tape for overlap sealing.

High performance tape for roof end and overlaps sealing.

ACCESSORIES:

- J-Trim
- Base/Bottom starter Trims
- Corner Trims
- Z-Shaped trim
- D-edging Trim

Other trims available upon request.

klar®

For further technical questions: **sales@klar.us.com**

Follow us on social media:

www.linkedin.com/company/klar-usa

Klar USA

www.klar.us.com

All technical data collected in this technicaldatasheet are based on laboratory tests. Current data measures may vary due to circumstances beyond our control. The information and in particular the recommendations on the installationand finaluse of Klar products are provided in good faith, based on the current Klar's knowledge and experience regarding its products, as long as these are properly stored, handled and transported; as well as installedunder normal conditions. In practice, the differences in thematerials, substrates and conditions of the work where the Klar products will be applied are so particular that from this information, from some written recommendation or from some technical advice, no guarantee can be deduced regarding the commercialization or adaptability of the product to a particular purpose, as well as no contractual liability. The property rights of third parties must be respected. All orders accepted by Klar are subject to Klar's General Contracting Clauses for the Sale of Products. Users should always refer to the latest edition of the Technical Data Sheet of theproducts; copies of which will be delivered at the request of the interested party or which can be accessed on the Internet through our website **www.klar.us.com**