



**PU Panel Locks**

# PU Panel Locks

High-Quality Polymer Cam-Operated Locks

**Information Brochure**



**[info@pupanellocks.com](mailto:info@pupanellocks.com)**





# Industrial Applications

The Plastic Camlock was developed by us more than a decade ago and since then, we have been supplying it to several leading manufacturers of sandwich panels in India and abroad to their entire satisfaction.

Over the years our customers have been successfully using our camlocks in many PUF sandwich panel applications such as:

- **Walk In / Modular Cold rooms**
- **High Altitude Shelters**
- **Cold Storages**
- **Refrigerated Vehicles and containers**
- **Telecom Shelters**
- **Pre-fabricated structures**
- **Ripening Chambers**

The Camlocks may be used for PU panels more than 60 mm thick. We have developed Camlocks specially designed for use with thinner panels as well.

**Customisation Option:** We also provide customisation as per customer requirement.



## PU Panel Lock

# Product Features



### Thermal Insulation

The plastic camlock minimizes heat loss due to the non-conductive polymer housing, providing superior thermal insulation compared to metal alternatives. It provides best alternative solution to metal fasteners where there is possibility of ice formation.



### Enhanced Bonding Strength

The P.U. Foam adhesion to the H.I.P.S housing is better than metal and further improved due to a large contact area and anchoring ribs, ensuring stronger bonding to PU than with metal fasteners.



### High Tensile Strength

The glass fiber reinforced nylon hook is tested to withstand over 250 kg of tensile force. Elongation of Nylon Hook accommodates small misalignments during assembly.

# Product Features

## 01 Customizable Solutions:

We offer the ability to produce customized camlocks tailored to meet the specific needs and requirements of our clients, ensuring the perfect fit for any application.

## 02 Enhanced Assembly Process:

The male housing is securely assembled by bonding the cover to the hook housing, using ultrasonic welding technology.

## 03 Corrosion Resistance:

The polymer and nylon materials are resistant to corrosion, making our camlocks rust proof & naturally resistant to ice formation due to condensation.

## 04 Secure Locking Mechanism:

The over-center cam system ensures that the hook remains securely locked until released with an Allen key, providing reliable performance in various applications.

## 05 Protection Against Foam Intrusion:

Specially designed protective discs prevent P.U. Foam from entering the cam hole during foaming, while the discs can be easily punctured to create a clean hole for the 10 mm Allen key.

## 06 Precision Alignment:

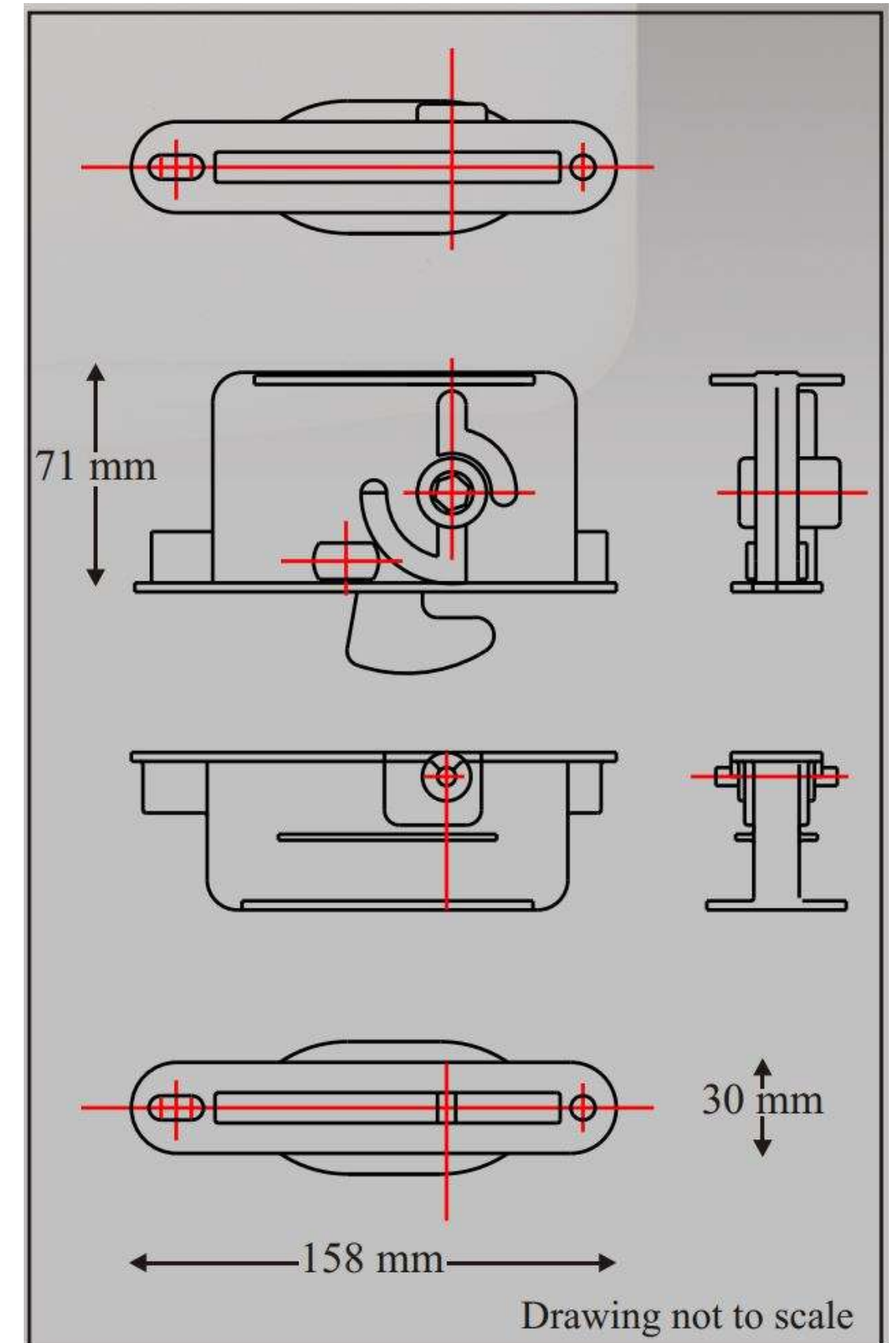
The camlocks feature both round and oblong holes on the mating face, ensuring correct alignment in the fixture during assembly.

# Material Specifications

- **Housing** : High Impact Polystyrene
- **Cam** : Glass Reinforced Nylon with 30% glass
- **Axle pin** : Stainless steel/MS
- **Hook** : Glass Reinforced Nylon with 30% glass

**Destruction testing of hooks was done on Universal Testing Machine and following results were obtained.**

- Breaking strength of 300 + Kg. (Tensile).  
Elongation at break point is 4 - 5 mm.
- Max Elongation at recommended tensile force of 250 Kg. is 2.0 - 3.0 mm.





# Thank You

## Connect with Us Now!

In case you need any additional information, or if you need a small quantity for trials or have any customised requirement, please feel free to contact us.

 [info@pupanellocks.com](mailto:info@pupanellocks.com)

 [www.pupanellocks.com](http://www.pupanellocks.com)

 +91 98220 49873