



# INSULATED PANELS

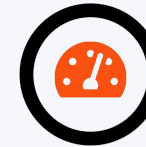
Cool Roof's insulated panel is pre-engineered composite structure made of three layers: a low-density core made up of Polyurethane PUR, Polyisocyanurate PIR or Mineral Wool, and a metal-layer bonded to each side of the core.

## THERMAL INSULATION



CoolRoof panel's inner core (PUR, PIR or Mineral wool) eliminates transfer of heat energy from & to the infrastructure system irrespective of various weather conditions.

## FASTER BUILD



CoolRoof Panels are insulated panels with best locking systems. Construction process is less complicated and is quicker to install, thereby reducing the build time by half compared to on-site assembly method.

## SOUND PROOFING



CoolRoof Panels ensures no leakage or ensures minimal transmission of sound energy from & to the infrastructure system due to air tight insulation for a quiet environment.

## STRENGTH & DURABILITY



CoolRoof Panels being the composite of 3 layers has higher tensile strength to support bigger surface load with longer lifespan & durability.

## AESTHETIC DESIGN



CoolRoof Panels are manufactured in profiles, and a high range of colours to suit requirement of each building individually, for aesthetic appeal.

## COST & GO GREEN CHOICE



CoolRoof Panels are cost effective in all stages of manufacturing, assembling & building the infrastructure. It is eco-friendly and reduces the carbon foot print extensively.



## About Us

COOL ROOF is a Pioneer in manufacturing various Insulated Panels/Products that have a wide range of applications in the construction Industry. CoolRoof specializes in prefabricated insulation panels of PUR, PIR and Mineral wool.

Insulated panels are modern approach to efficient buildings at economic values. We offer insulated roof panels, wall panels and also claddings and facade panel systems for aesthetic and sustainable infrastructure system.

Cool Roof's Manufacturing facility is Located in Bangalore, Karnataka with state of the art Automated Machinery to provide Top Quality Panels, with an overall capacity of 1,00,000 SQM Per Month.

Value means providing the clients with the highest quality for the most economical price. At CoolRoof, we ensure that our Products and Services achieve the Customer's Quality requirements and aim at continually adapting to latest technologies and improve our performance in serving our Clients.

GSTIN : 29AAKCM3773D1Z8



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# OUR APPROACH

CoolRoof focuses on quality and support for a reliable and trustworthy roofing solution. We achieve it by unceasing research and development in designs and manufacturing process. Value means providing the clients with the highest quality for the most economical price. By choosing CoolRoof, the client's concerns of the resource quality and professionalism of our facility is eliminated.



### ASSISTANCE

Direct contact will be ensured to all clients for any assistance personally regarding the product, its applications and installation procedures.



### SITE INSPECTION

Site inspection includes site visit, restrictions and all other eligibility criterias for smooth functioning of any project from designing to execution and finishing.



### FIELD SERVICE

Field services are ensured while installation of panels and monitored by qualified engineers.



### DRAWINGS

The drawings & sketches are checked & verified from well qualified architects and engineers.



### BLUEPRINTS

Samples, blueprints & documents are enveloped for clients before execution for client satisfaction.



### WARRANTY

Warranties for reliability are issued for certain products as per requirements.



## Categories

### Roofing Panels

Sandwich roof panels from CoolRoof with core choice options PUR, PIR or mineral wool depending on different purpose for roofing.

### Facade Panels

Eco-friendly facade panels from CoolRoof for aesthetic nature of the infrastructure.

### Wall Panels

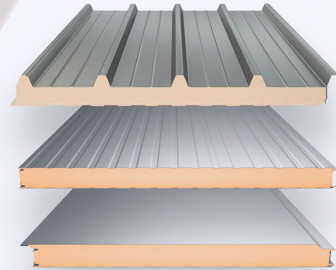
Wall panels from CoolRoof for interiors and exteriors of the infrastructure for temperature regulations & aesthetic nature.

## COOL PUR-e PANELS

### Polyurethane Panels

Cool PUR-e panel is an insulated panel with thermal insulation core: PUR or Polyurethane for excellent thermal performance and low thermal conductivity.

Cool PUR-e panels are light weight, easy to assemble on-site and it's low thermal conductivity ensures thinner layer of insulation materials required compared to other insulation system to attain same level of energy efficiency. It is versatile in various applications for roofing, wall insulations and also aesthetic facade systems for the infrastructure.



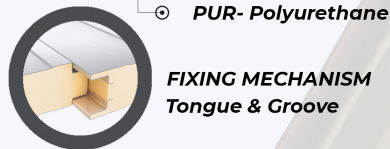
### COOL PUR-e Roof Panel



#### PRODUCT SPEC:

PROFILE: 35mm deep / trapezoidal.  
 LENGTH: 12m  
 WIDTH COVERAGE: 1060mm  
 FACIA LAYER: Galvanised steel, Galvalume  
 BENDING STRENGTH: 4Kg/Cm2  
 FIRE RESISTANCE: Yes  
 CORE TENSILE STRENGTH: >100 KPA  
 SHEAR STRENGTH: >90 KPA/TD>  
 TOUNG COMPRESSION MODULE: >2500kpa  
 TOUNG TENSILE MODULE: >2500kpa

### COOL PUR-e Wall Panel



#### PRODUCT SPEC:

PROFILE: Flat.  
 LENGTH: 12m  
 WIDTH COVERAGE: 1000mm  
 FACIA LAYER: Galvanised Steel, Galvalume  
 BENDING STRENGTH: 4Kg/Cm2  
 FIRE RESISTANCE: Yes  
 CORE TENSILE STRENGTH: >100KPA  
 SHEAR STRENGTH: >90KPA/TD>  
 TOUNG COMPRESSION MODULE: >2500kpa  
 TOUNG TENSILE MODULE: >2500KPA

## DIMENSIONS & STATS

### Cool PUR-e Roof Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: CORE + 35mm

### Cool PUR-e Wall Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: -

### Cool PUR-e Roof Panels

#### Core Thickness (mm)

Core Thickness (mm)	25	30	40	50	60	80	100	120	140	160
U-Value (W/m2K)	0.72	0.62	0.49	0.40	0.34	0.26	0.21	0.18	0.16	0.155
R-Value (W/m2K)	1.39	1.61	2.04	2.48	2.91	3.78	4.65	5.52	6.39	7.26

### Cool PUR-e Wall Panels

#### Core Thickness (mm)

Core Thickness (mm)	25	30	40	50	60	80	100	120	140	160
U-Value (W/m2K)	1.04	0.77	0.58	0.46	0.38	0.29	0.23	0.18	0.14	0.11
R-Value (W/m2K)	0.86	1.30	1.74	2.17	2.61	3.48	4.35	4.79	5.23	5.67

## ADVANTAGES

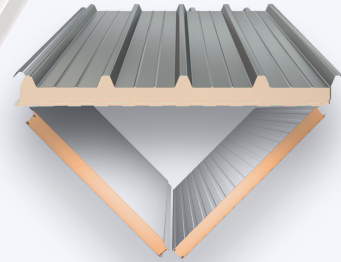
- Quick on-site assembly and building span.
- Conserves energy and increases energy efficiency of infrastructure.
- Regulates in-system temperature irrespective of weather conditions.
- Reliable, Durable, Leak proof, Sound proof roofing solution due to insulation.
- High Fire resistance.

## Cool Pro PIR PANELS

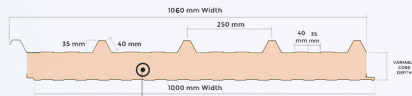
### Polyisocyanurate panels

Cool Pro PIR panel is an insulated panel with thermal insulation core: PIR or Polyisocyanurate for extremely high fire resistance and low thermal conductivity.

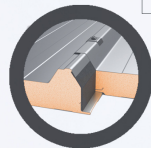
Cool Pro PIR panels have extremely low thermal conductivity and high strength-to-weight ratio. In combination with excellent manufacturing versatility, It is versatile in various applications for roofing, wall insulations and also aesthetic facade systems for the infrastructure.



### COOL Pro PIR Roof Panel



⊙ PIR- Polyisocyanurate



**FIXING MECHANISM**  
Tongue & Groove

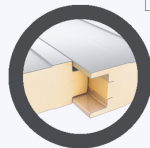
#### PRODUCT SPEC:

PROFILE: 35mm deep / trapezoidal.  
LENGTH: 12m  
WIDTH COVERAGE: 1060mm  
FACIA LAYER: Galvanised steel, Galvalume  
BENDING STRENGTH: 4Kg/Cm2  
FIRE RESISTANCE: Yes  
CORE TENSILE STRENGTH: >100 KPA  
SHEAR STRENGTH: >90 KPA/TD>  
TOUNG COMPRESSION MODULE: >2500kpa  
TOUNG TENSILE MODULE: >2500kpa

### COOL Pro PIR Wall Panel



⊙ PIR- Polyisocyanurate



**FIXING MECHANISM**  
Tongue & Groove

#### PRODUCT SPEC:

PROFILE: Flat.  
LENGTH: 12m  
WIDTH COVERAGE: 1000mm  
FACIA LAYER: Galvanised Steel, Galvalume  
BENDING STRENGTH: 4Kg/Cm2  
FIRE RESISTANCE: Yes  
CORE TENSILE STRENGTH: >100KPA  
SHEAR STRENGTH: >90KPA/TD>  
TOUNG COMPRESSION MODULE: >2500kpa  
TOUNG TENSILE MODULE: >2500KPA

## DIMENSIONS & STATS

### Cool Pro PIR Roof Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: CORE + 35mm

### Cool Pro PIR Wall Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: -

### Cool Pro PIR Roof Panels

#### Core Thickness (mm)

Core Thickness (mm)	25	30	40	50	60	80	100	120	140	160
U-Value (W/m2K)	0.72	0.62	0.49	0.40	0.34	0.26	0.21	0.18	0.14	0.11
R-Value (W/m2K)	1.39	1.61	2.04	2.48	2.91	3.78	4.65	5.52	6.39	7.24

### Cool Pro PIR Wall Panels

#### Core Thickness (mm)

Core Thickness (mm)	25	30	40	50	60	80	100	120	140	160
U-Value (W/m2K)	0.86	0.77	0.58	0.46	0.38	0.29	0.23	0.19	0.16	0.11
R-Value (W/m2K)	0.85	1.30	1.74	2.17	2.61	3.48	4.35	4.79	5.23	5.67

## ADVANTAGES

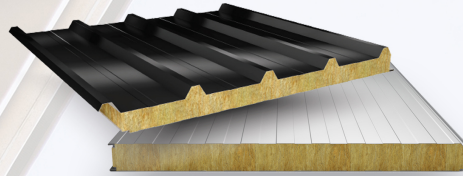
- ⊙ Extremely high fire resistance due to higher ISO index (>180)
- ⊙ Generation of very low smoke.
- ⊙ Higher thermal stability (<120 Degree Celcius)
- ⊙ Regulates in-system temperature irrespective of weather conditions.
- ⊙ Reliable, Durable, Leak proof, Sound proof roofing solution due to insulation.

## COOL WOOL PANELS

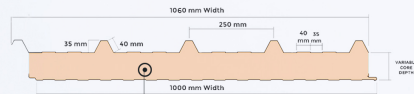
### Mineral Wool, Rock Wool

Cool Wool panel is an insulated panel with the insulation core: Mineral wool, Rock wool for highest fire and flame resistance and high sound proofing.

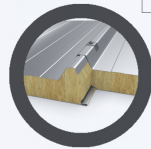
Cool Wool panels have extremely high thermal performance and is a good protection fire hazards. It ensures sound proof environment in the most economic range. It is versatile in various applications for roofing, wall insulations and also aesthetic facade systems for the infrastructure.



### COOL Wool Roof Panel



⊙ Mineral wool



**FIXING MECHANISM**  
Tongue & Groove

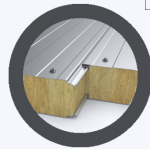
#### PRODUCT SPEC:

PROFILE: 35mm deep / trapezoidal.  
 LENGTH: 12m  
 WIDTH COVERAGE: 1060mm  
 FACIA LAYER: Galvanised steel, Galvalume  
 BENDING STRENGTH: 4Kg/Cm2  
 FIRE RESISTANCE: High  
 Sound Proof  
 Eco-Friendly

### COOL Wool Wall Panel



⊙ Mineral wool



**FIXING MECHANISM**  
Tongue & Groove

#### PRODUCT SPEC:

PROFILE: Flat.  
 LENGTH: 12m  
 WIDTH COVERAGE: 1000mm  
 FACIA LAYER: Galvanised Steel, Galvalume  
 BENDING STRENGTH: 4Kg/Cm2  
 FIRE RESISTANCE: High  
 Sound Proof  
 Eco-Friendly

## DIMENSIONS & STATS

### Cool Wool Roof Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: CORE + 35mm

### Cool Wool Wall Panels

CORE THICKNESS: 25 to 200mm

TOTAL THICKNESS: -

### Cool Wool Roof Panels

Core Thickness (mm)	50	60	80	100	120	150
U-Value (W/m2K)	0.70	0.60	0.46	0.37	0.18	0.25
R-Value (W/m2K)	1.43	1.68	2.18	2.68	3.18	3.93

### Cool Wool Wall Panels

Core Thickness (mm)	50	60	80	100	120	150
U-Value (W/m2K)	0.80	0.67	0.50	0.40	0.33	0.27
R-Value (W/m2K)	1.25	1.50	2.00	2.50	3.00	3.75

## ADVANTAGES

- ⊙ Extremely high fire and flame resistance due to higher ISO index
- ⊙ Sound Proof.
- ⊙ Higher thermal stability (Stable in flame for longer duration)
- ⊙ Regulates in-system temperature irrespective of weather conditions.
- ⊙ Economic roofing solution.

# Areas of Application



## Applications

Insulated panels for wall and roof are a quick-build system with following characteristics:

- ⦿ Economical
- ⦿ High insulation values
- ⦿ Fire and sound protection
- ⦿ Quick and easy installation

As a result, insulated panels are becoming an increasingly popular option from large industrial commercial warehouses to small to medium production areas as well as dedicated homebuild projects. From factories to stadiums, from malls to swimming pools, insulated panel is a durable and economic solution for many buildings.

## Categories of Application



ROOFS



WALLS



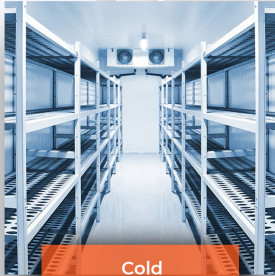
CEILINGS



FACADES



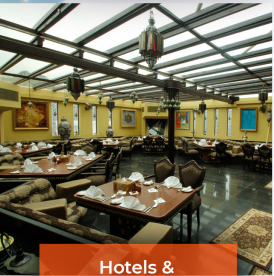
Commercial Buildings



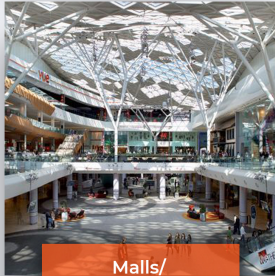
Cold Storage



Warehouse/ Godown



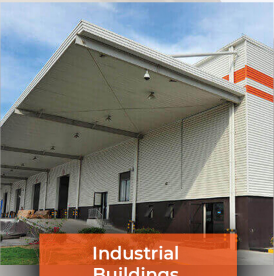
Hotels & Restaurants



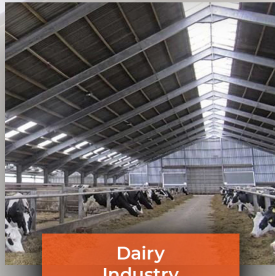
Malls/ Complexes



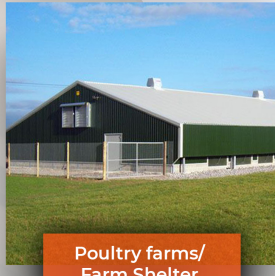
Pharmaceutical Units



Industrial Buildings



Dairy Industry



Poultry farms/ Farm Shelter

GSTIN : 29AAKCM3773D1Z8



Value for Quality



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