



PUF, also known as, Polyurethane Foam, are a type of insulating building material widely used in construction and industrial applications.

PufPro® is the finest quality rigid foam panel. Our foam is characterized by a high closed-cell content and exhibits low thermal conductivity and offers best resistance to heat transfer. Our professional formulation eliminates shrinkage and adds compressive strength.



Pufpro Building Envelope Slabs

Pufpro is one of the dimensionally most stable insulations available today, and doesn't expand or contract as much when subjected to temperature variations. Along with strong binding properties, it is favored in the use of Sandwich Panels.

Quietly Defining Thermal Efficiency

PUF is one of those remarkable materials that quietly enhances our everyday lives. Though often hidden within annular spaces, it plays an essential role in maintaining comfort all around us. With its exceptional performance as both a heat and cold barrier, PUF finds widespread use in countless household and industrial applications.

For example:

- The refrigerator's door and walls have the puf filling.
- The hot water geyser tank walls is lined with puf.



*Common Fridge dissection
reveals PUF filling*



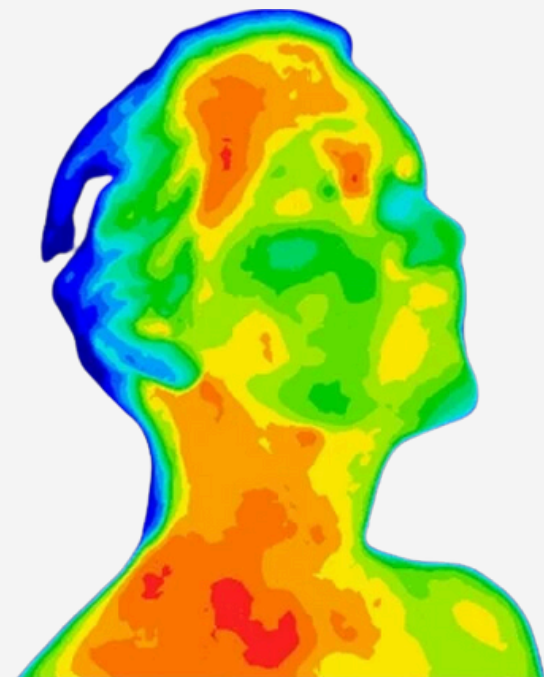
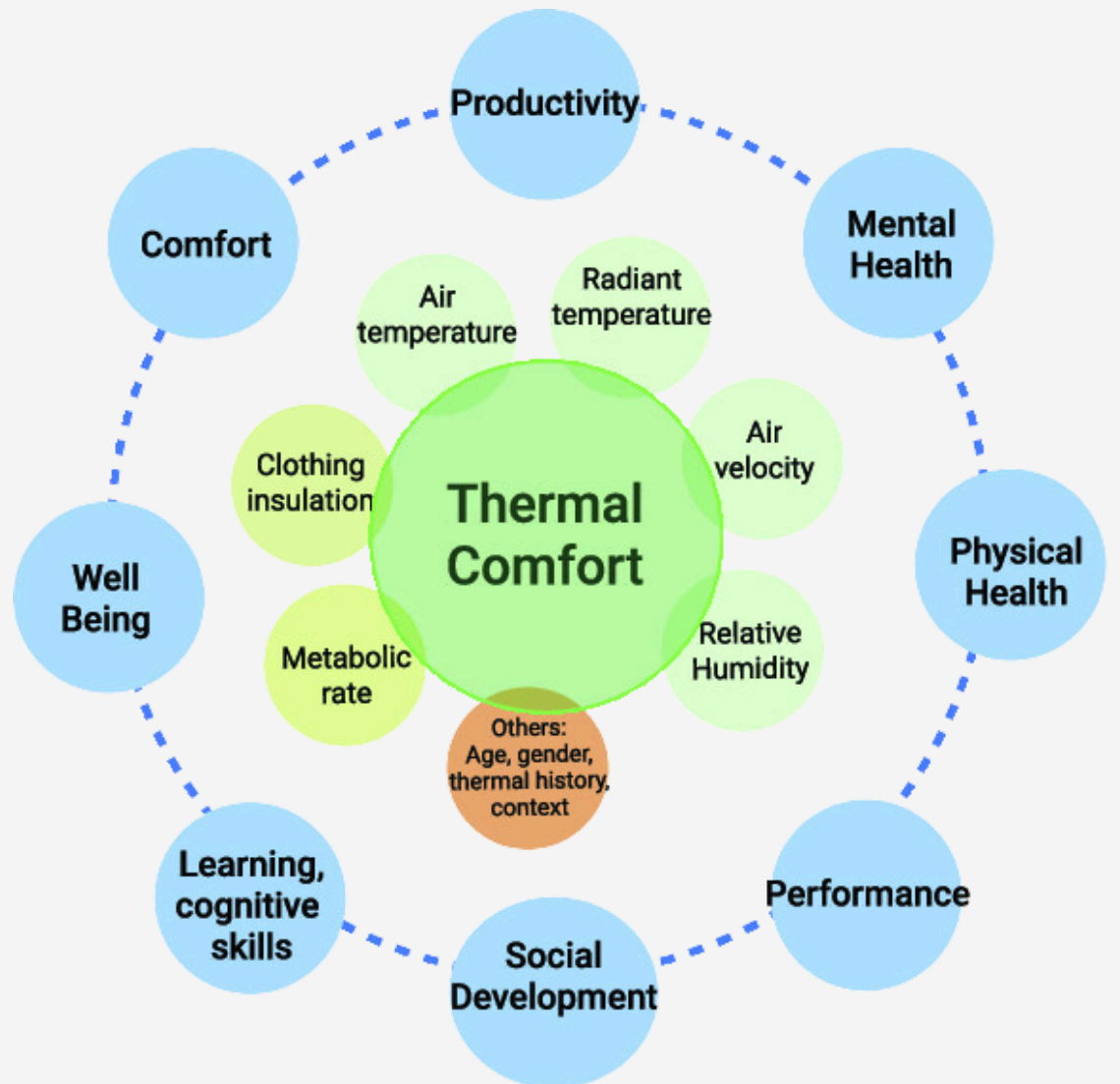
*Hot water tanks contain
PUF lining*

Importance of Insulation

In western societies, insulation is elementary to most building projects, however, in the developing nations it tends to be overlooked.

Studies reveal that our surroundings, greatly define our well being and it shapes our productivity and health.

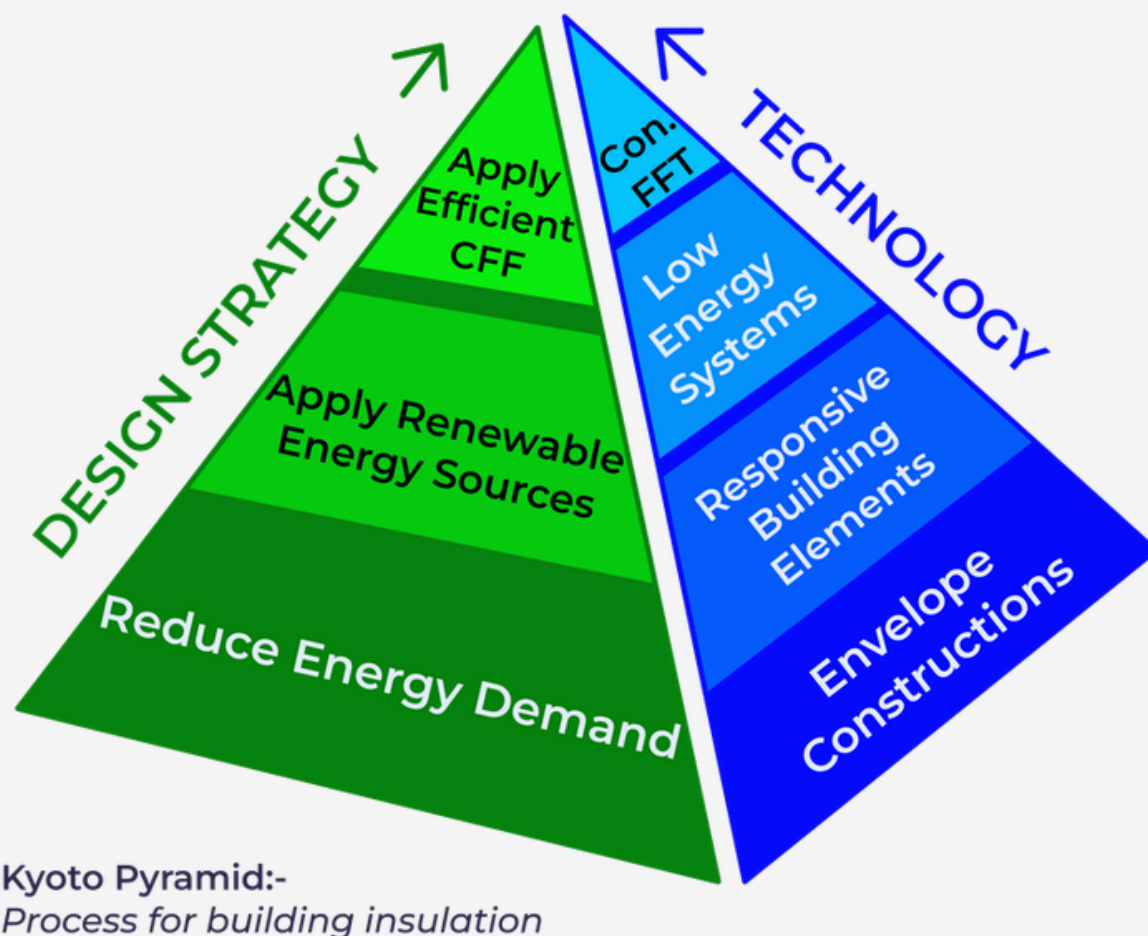
Without proper insulation, daily temperature fluctuations easily affect our spaces and remains the primary cause for illness as well as the seasonal lifestyle changes. It impacts the quality of life adversely.



*Human Metabolic Rate
responds to ambient
temperature*

The path towards Sustainable Insulation

To achieve sustainable insulation, the vital strategy is to reduce the energy demand in the first place. The primary technology in the process is using 'insulating envelope solutions' that control the flow of heat, air and moisture in and out of the structure.



The base engineering is to use efficient materials in the construction such that the building heat gain or loss can be minimized. Thus, the environment within can be shielded from outside temperature fluctuations and there is little dependency on climate control systems.

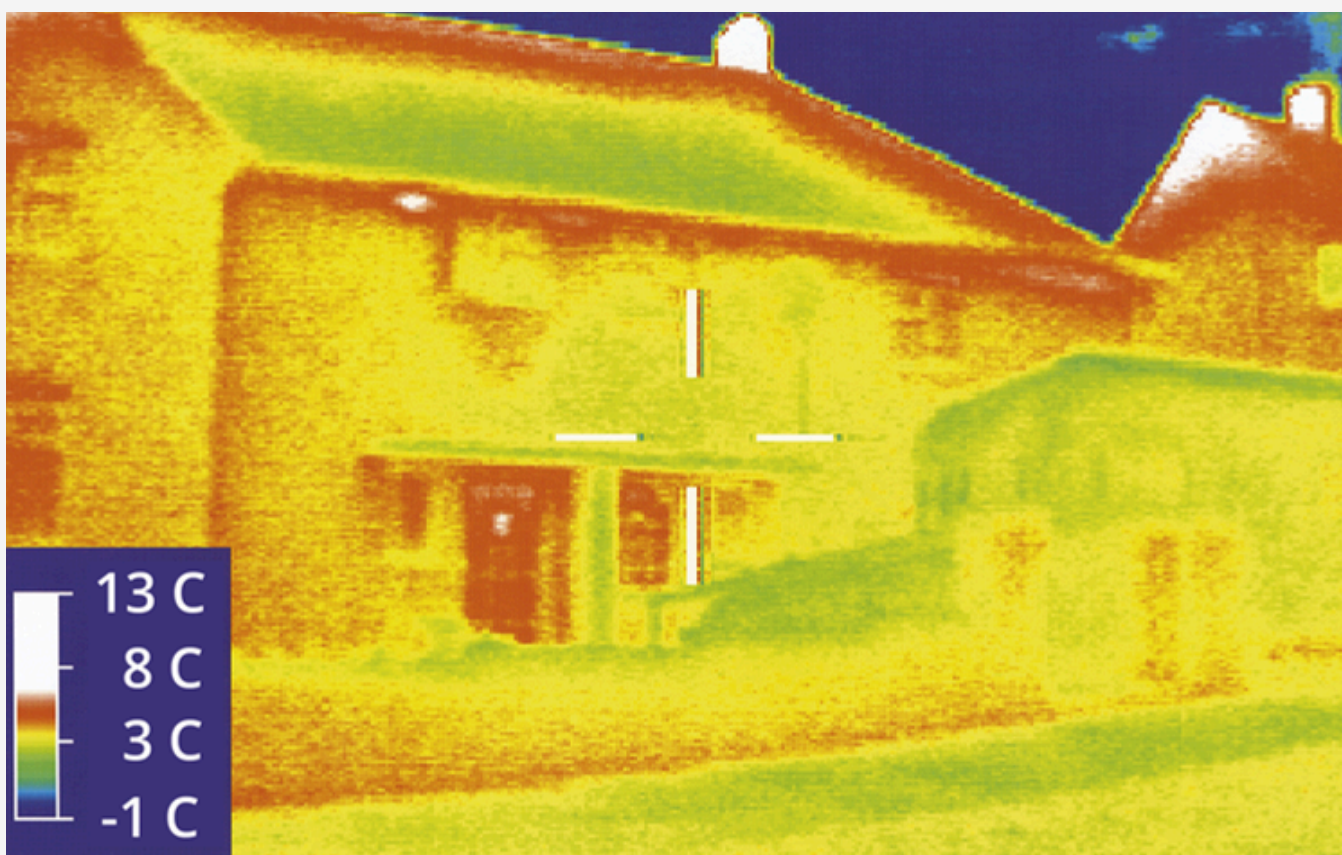
With minimum losses, the efficiency of energy systems is also enhanced.





Unrivalled Performance

With Pufpro panels, we guarantee a long-term thermal comfort in your spaces. Our core PUF technology, in the use of walls and roofing, helps maintain constant temperatures, and protects the environment within, be it the scorching summer heat or the winter chills.



Our panels provide a easy to install and a low-maintenance solution that is resistant to wear and tear damage.

Over time, we promise to deliver a sustainable cost-savings by reducing utility bills in terms of the heating and cooling expenses.

Key Features



**Robust x
Shrinkage free**



Climate Control



Fire-Rated



Damp-Repellent



**Minimum
Contraction/Expansion**



Eco-Friendly

The chemicals we use in the production of our panels are of the highest grade. We use cyclopentane pre-blended polyol that is eco-friendly- free of CFCs and HCFCs with zero ozone depletion potential . The MDI we use, is imported from Japan to uphold strict quality control standards.

The higher closed cell content ensures the prolonged durability of our panels. Our cutting-edge manufacturing facility subjects the panels to rigorous temperature conditions from the initial stages, contributing to their long lifespan.



PufPro[®] panels ensure unmatched thermal insulation for several decades, making it the engineer's choice in projects where temperature control and energy efficiency are important.

Insulating Properties		K value: 0.22 W/m°K
Pufpro Thickness mm	R-Value <i>BTU in / (hr ft² °F)</i>	U-Value <i>W/m² °K</i>
30	9.45	0.733
40	12.60	0.550
50	15.75	0.440
60	18.90	0.367
80	25.21	0.275
100	31.51	0.032

Note: These values are indicated based on PUF Thickness only.

Incase of sandwich panels, the R-Values of the skins would need to be factored in along with the PUF thickness in the chosen panel.

You can reach out for specific values.



Insulation can comprise of several layers depending on the desired environment and project specific requirements.

We make PUF very accessible using a single component system, wherein the PUF is used as the core in-between two layers of sheeting. Our popular, Pufpro offerings include Sandwich Panels using metal cladding aswell as Fibre Cement Board or Bison Board.

It is used in Roofing aswell as Ceiling and Wall Applications.

Our Popular PUF Sandwich Panel Types:-		
1	PUF PPGL Wall	
2	PUF Roof	
3	PUF Drywall	

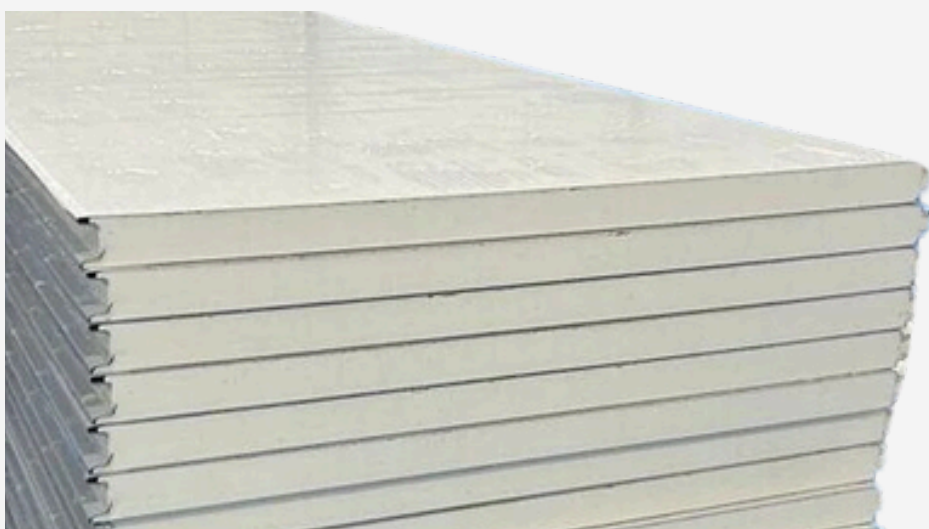
PUF PPGL Wall

These panels are ready to install and come in a range of attractive metal finishes, eliminating the requirement for any further treatment post installation such as putty / paint.

The construction of these walls is super quick and being lightweight it can offer significant savings in PEB steel structures as the wall load is reduced.

These panels form secure walls and achieve thermal performance. These walls support a brilliant environment within as it prevents heat gain and heat losses. Therefore, it also leads to significant savings in the utility expense.

It requires negligible maintenance. It may be fitted with camlock to allow for modularity, disassembly and reuse.



Smooth Finish with metal Lips

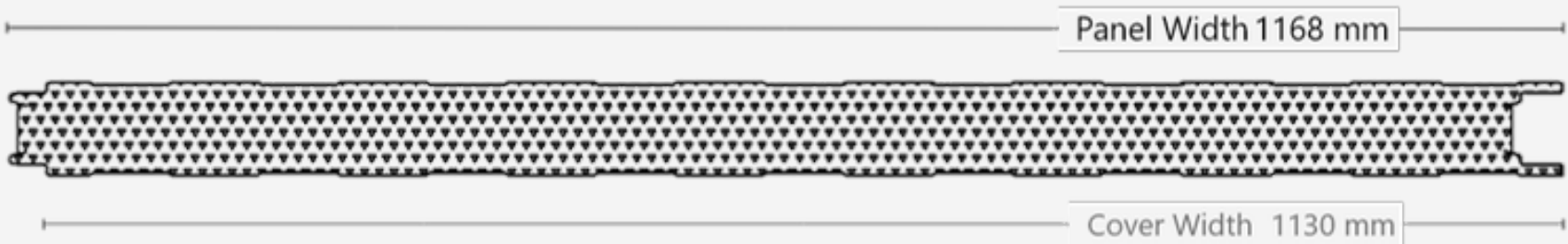


Fluted/Ribbed Finish with metal Lips

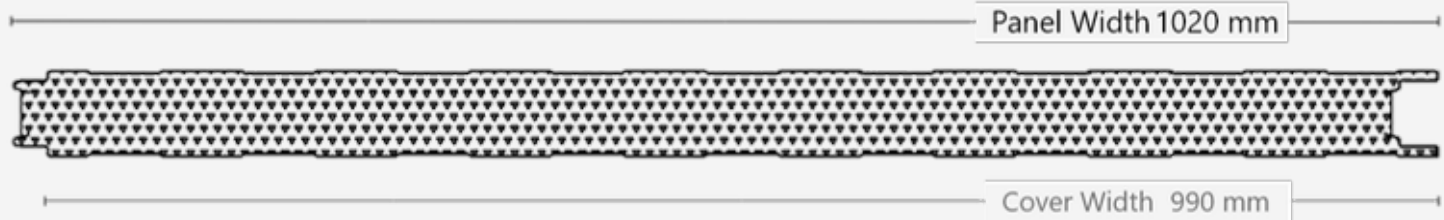
Popular Selections in Puf Ppgl Wall:-

Outer Sheet mm	Inner Sheet mm	Panel Thickness mm
0.55	0.50	100
0.50	0.45	80
0.45	0.40	60
0.40	0.35	50
0.35	0.30	40

Standard Panel Width using > 0.35mm sheets



Standard Panel Width using < 0.35mm sheets



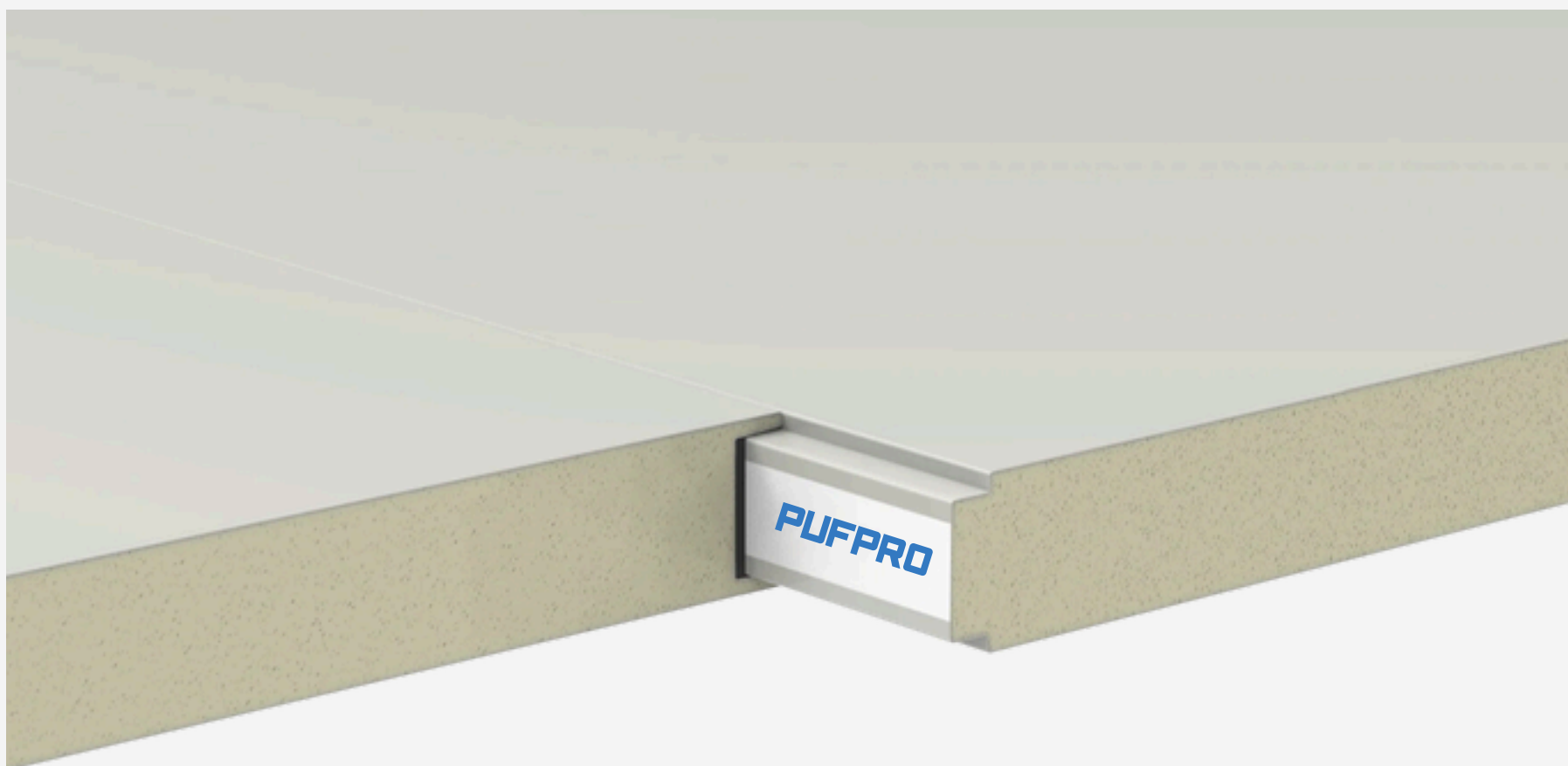
We provide panels in any desired length up to 12mtrs.

We supply panels at customized widths as per client requirements.

Tongue & Groove Joints

Our design allows for interlocking male-female, tongue and groove joints that allow secure connections with ease.

Our design ensures leak free assembly and supports fitment of accessories such as camlock that improve the modular efficacy of these wall panels.

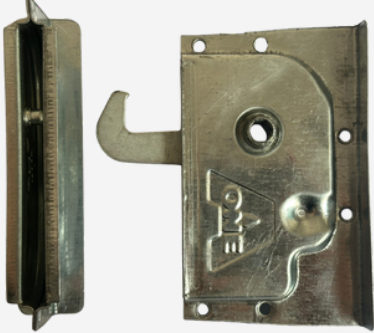
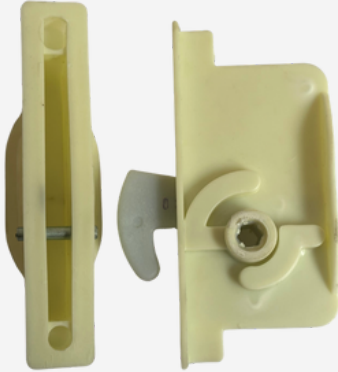




Tongue & Groove Joints with metal lips

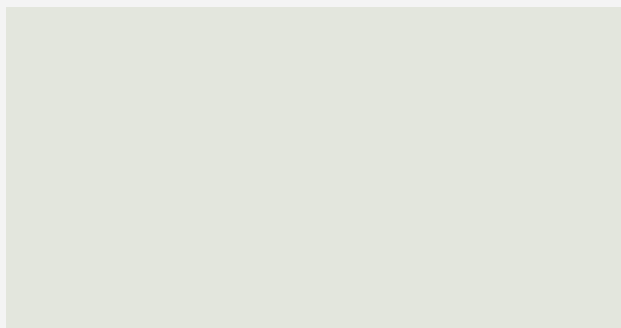
Tongue & Groove Joints with Camlock (optional)

Using L Key the Camlock can be operated to interlock the Puf panels for a secure, air-tight seal.

Cam Lock Selection

			
Metal	High Impact Engineering Plastic	High Impact Polypropylene	High Impact Polystyrene
<i>Unlimited Repeat use</i>	<i>Lifetime Repeat use</i>	<i>6 Repeat use</i>	Very limited use

Popular solid colors in ppgl base:-



off-white



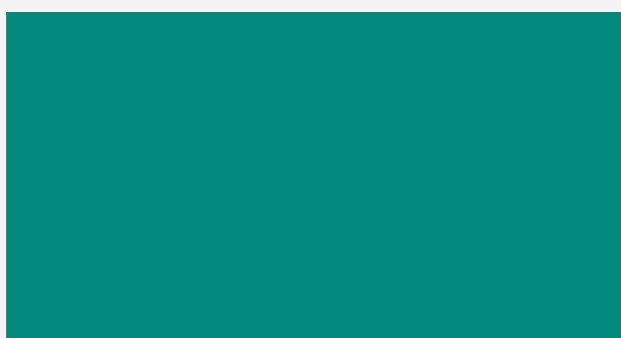
Slate Gray



moss green



pepsi blue



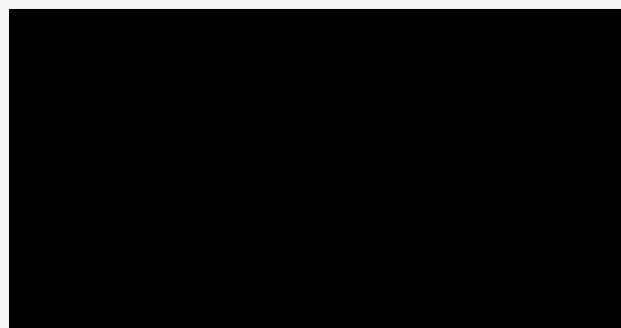
turquoise green



Sky-Blue



environmental green



Luxe-Jet

Incase you have a custom RAL Code, contact our team for further assistance.

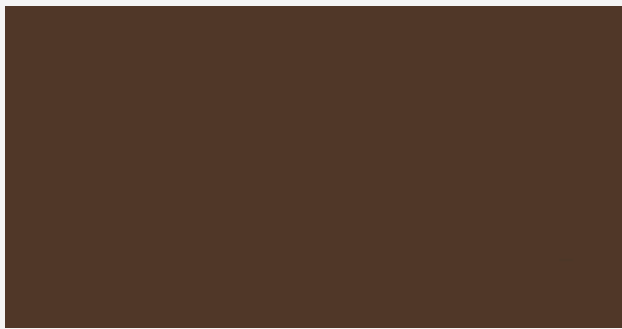
Popular solid colors in ppgl base:-



terracota



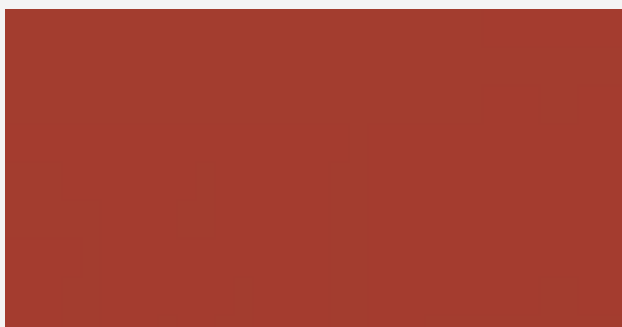
Red-Wine



forest wood



sico red



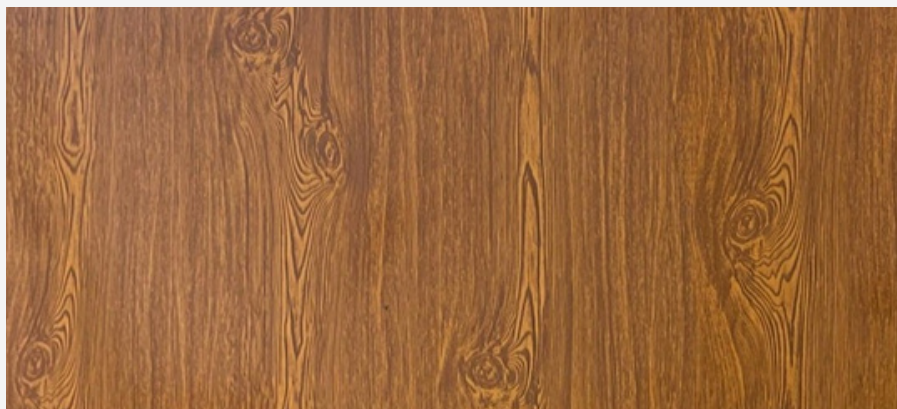
Brick Red

Incase you have a custom RAL Code, contact our team for further assistance.

Trending print selections in ppgl base:-



camoflauge



Sienna Redwood



Timberline Teakwood

Incase you have a custom print, contact our team for further assistance.

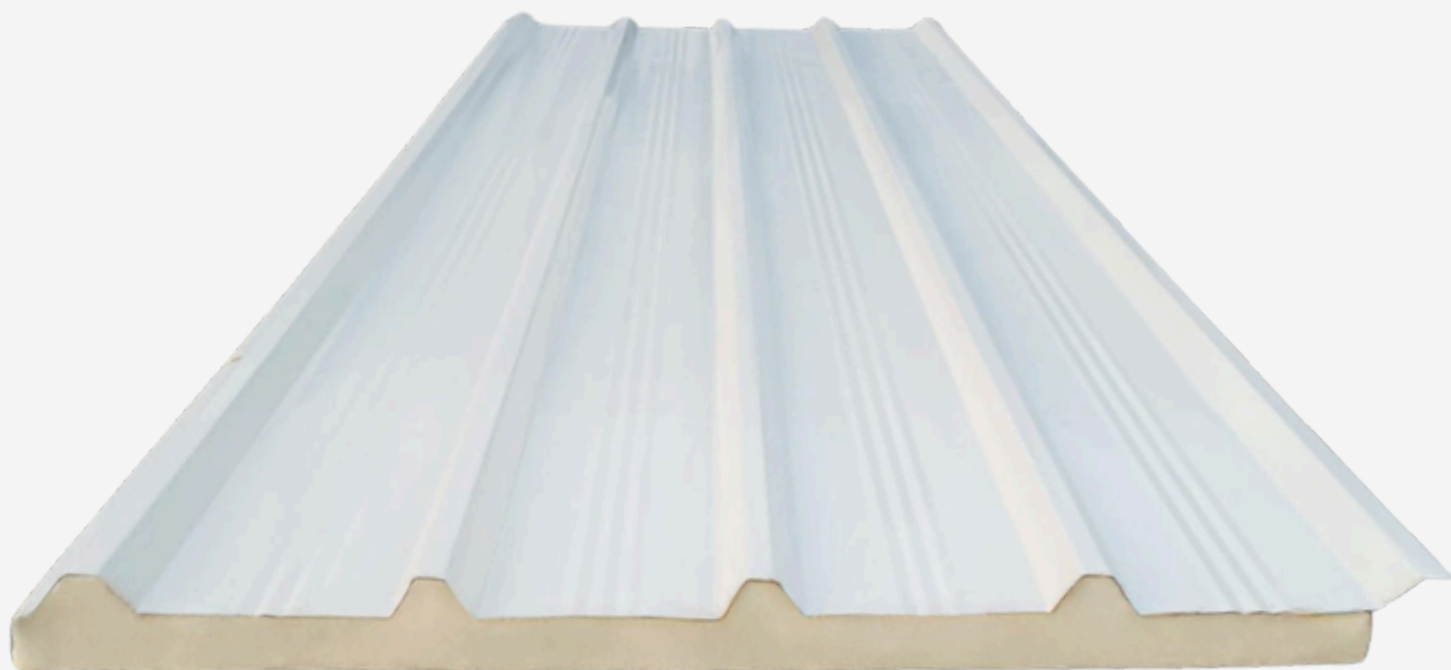
Pufpro Skysafe

Our roof panels are made with high-quality materials to withstand the test of time. Light-weight and performance driven these panels will boost the aesthetic appeal and deliver unmatched comfort for decades to come.

Heat-Proofing is at the core of Pufpro technology and it will ensure that the internal ambience is guarded from the external weather.

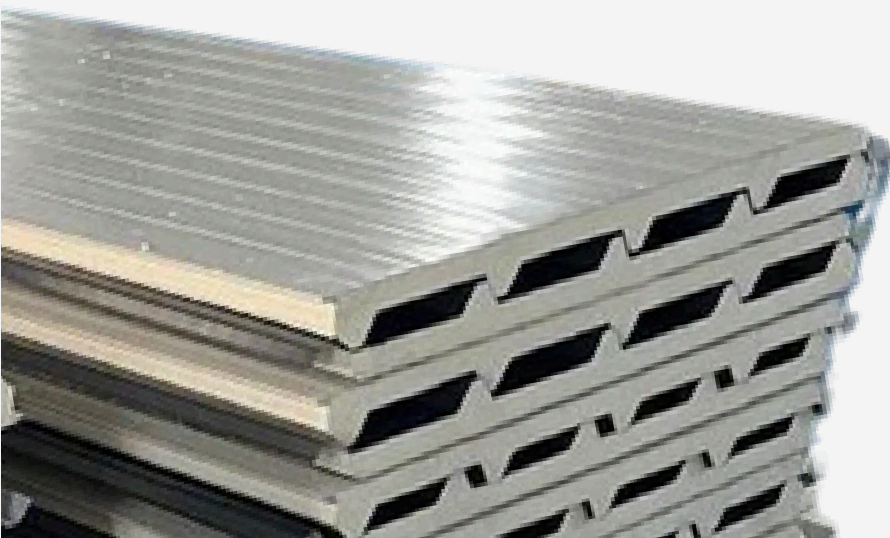
Enjoy acoustic comfort, with rain-noise reduction.

Save Money as additional strength, allows for longer spans and insulation conserves energy bills.



Roof Panel Top View

Roof Bottom Design selection



Fluted Finish with metal lips



Smooth Finish with metal lips

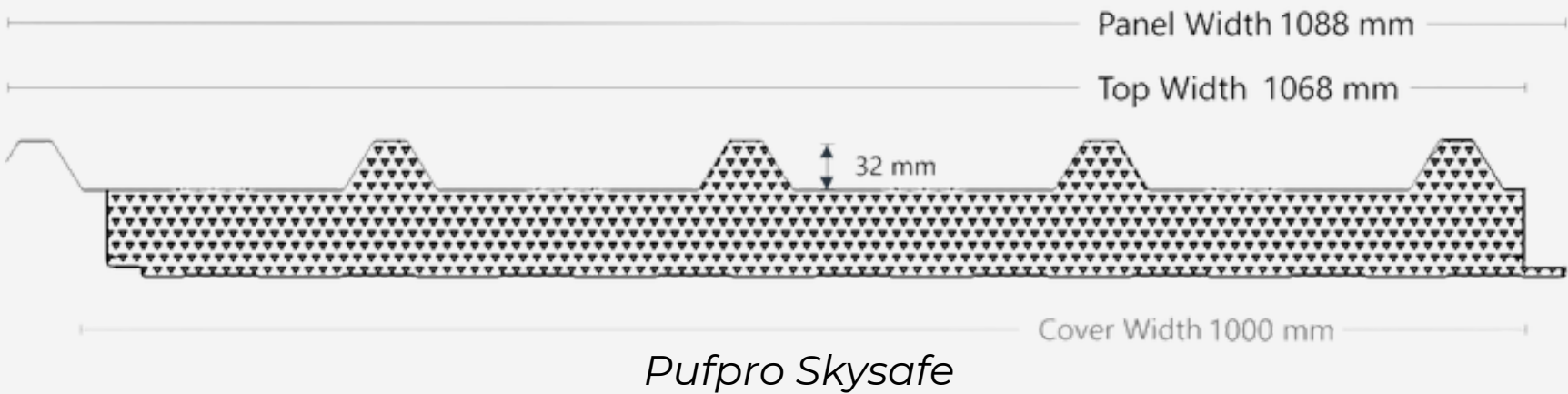


Under Truss View (smooth finish)

Popular Selections in Puf Roof:-

Outer Sheet <i>mm</i>	Bottom Sheet <i>mm</i>	Panel Thickness <i>mm</i>
0.55	0.35	30
0.50	0.30	50
0.45		80
0.40		100

Standard Panel Width



We provide panels in any desired length up to 12mtrs.

PUF Drywall



It is an exceptionally efficient *insulated* drywall solution and features *rapid installation*.

This allows for project wall completion **6x faster** than conventional methods such as Brickwork/AAC.

It is *less labor* intensive and doesn't involve the cement/mortar mixtures. Also, it is *relatively light* weight and much easier to handle.

It may be fitted with camlocks to allow for *modular* construction as well as disassembly and reassembly.

The panels when finished with putty paint, achieve the appearance and texture of a conventional wall.

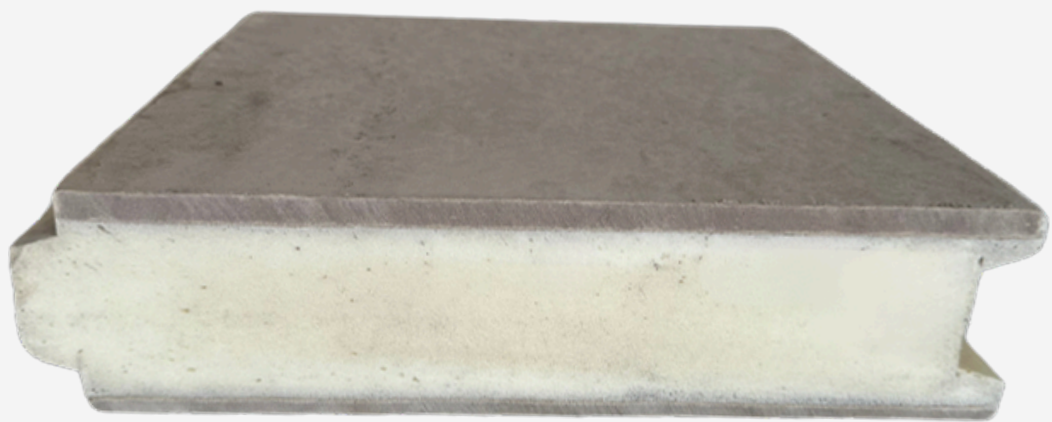
PUF Drywall Exterior



Cement Bonded Particle Board (Exterior grade)

Popular Selections in Exterior Puf DryWall:-		
Recommended Bison Board	Typically Fibre Cement Board	
Outer Sheet <i>mm</i>	Inner Sheet <i>mm</i>	Panel Thickness <i>mm</i>
10	8	50
8	6	60
6		80
		100

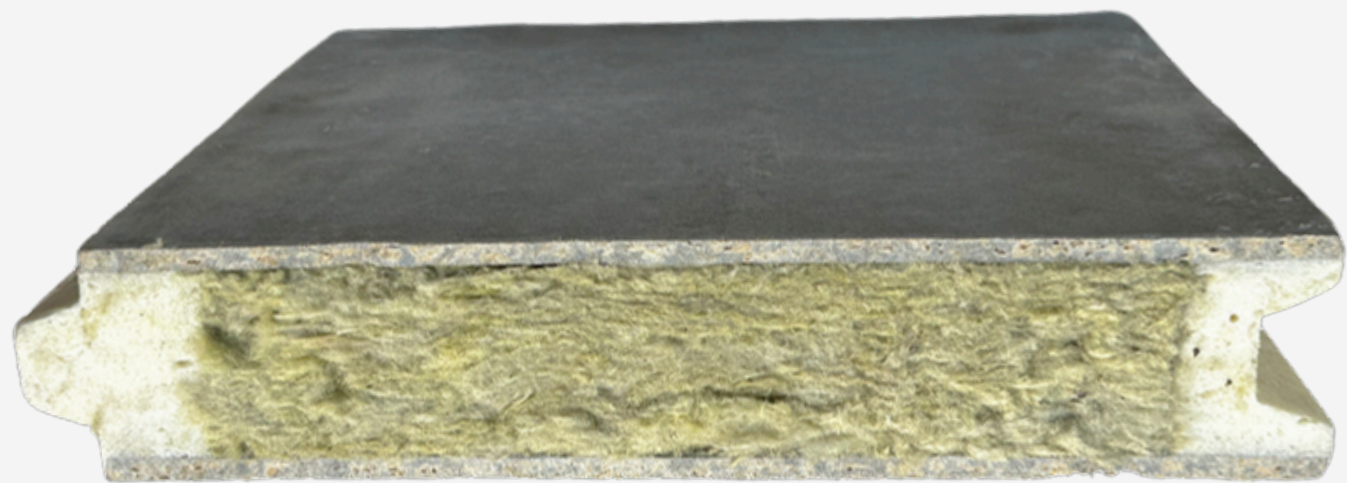
PUF Drywall Interior



Fibre Cement Board (Interior grade)

Popular Selections in Interior Puf DryWall:-		
Typically Fibre Cement Board		
Outer Sheet mm	Inner Sheet mm	Panel Thickness mm
8	8	40
6	6	50
		60
		80

WoolPro PUF Drywall



using Rockwool® filler

Our alterante solution using Stonewool filler, allows for Class A fire resilience as well as acoustic benefits such as NRC and STC. It is commonly in interior wall partitions.

Popular Selections in Woolpro Puf DryWall:-		
Typically Fibre Cement Board		
Outer Sheet mm	Inner Sheet mm	Panel Thickness mm
10	10	60
8	8	80
		100

Installation Process



Pufpro Drywall Fixed inbetween the top and Bottom C Tracks



Windows Cutout using HandSaw, and applied putty/primer

PUFPRO®

Furniture Design and Manufacturing Factory



Exterior View



Inside View

Cold Storage



Inside Cold Room



Rooms Passage View

Clean Room



Farm House



Exterior View



Panel Zoomed View

PUFPRO®

Porta Cabins



PUFPRO®

Multi-Purpose Hall



Exterior View



Inside View



Corner View

Food Processing Plant



Office Floor View



Inside View



Corner View

PUFPRO®

Sports Complex



Inside View

Distribution Centre: PUF Wall Panel Horizontal laying



Distribution Centre: PUF Roof Panel





Building Serene Spaces

PUFPRO

WOOLPRO

SKYSAFE

LAYNER

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