

Tangshan Runfeng Composite Materials co.,ltd

Exporter of FRP/GRP products since 2004

FRP Sandwich Panels



Temporary house






Refrigerating cold room



Mobile storage

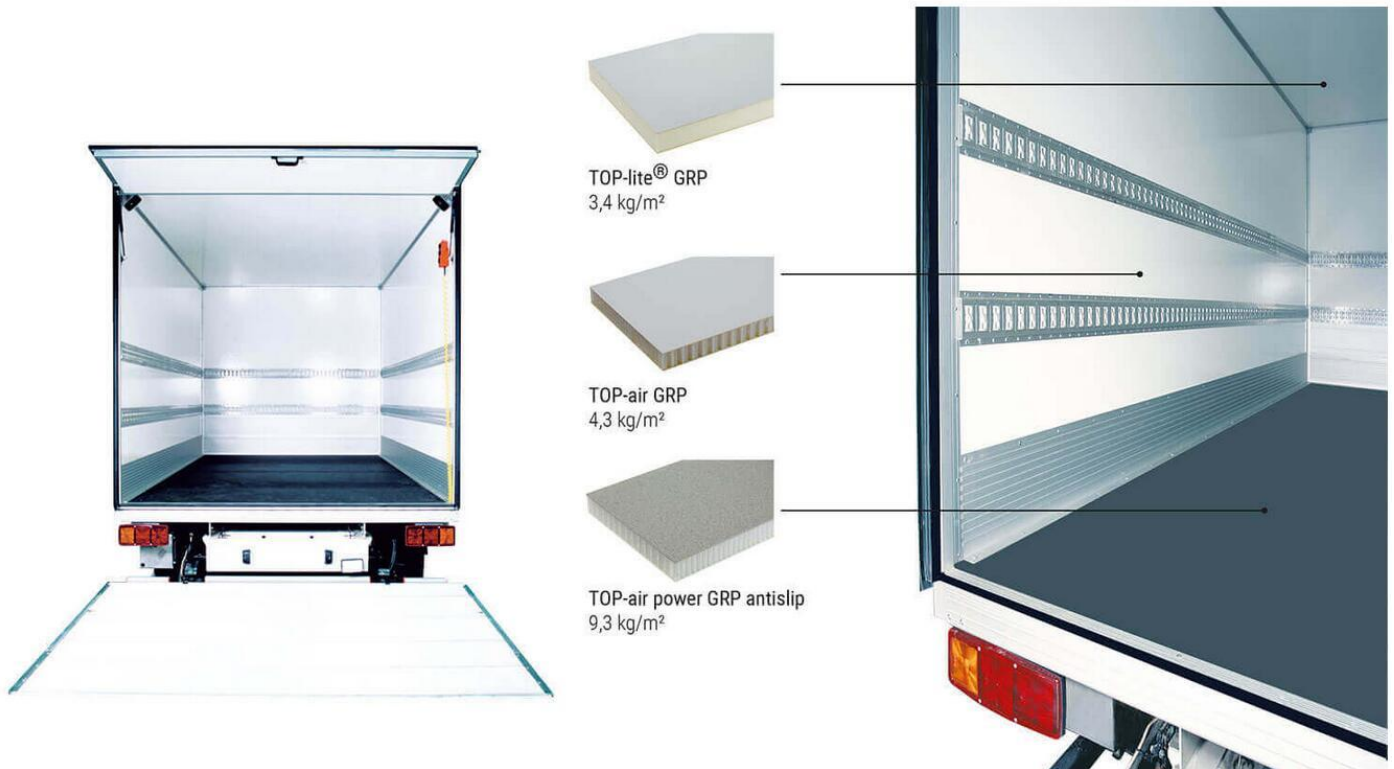


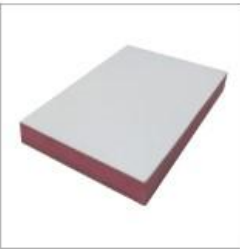



Van, RV, caravan trailer, truck ... BOX

-  *Since 2004*
-  *Cooperate with CIMC ,Kinglong, XCMG,GAIC group, COSCO,etc.*
-  *Two workshops in both South of China and & north of China, equipped with 7 sets production lines.*

LIGHTWEIGHT COMPOSITE STRUCTURAL FRP SANDWICH PANELS

FRP sandwich panels







FRP Sandwich Panels Core Type				
FRP XPS Panel	FRP PP Honeycomb Panel	FRP PU Foam Panel	FRP Plywood Panel	Customized Structure
				
Price: ★	Price: ★★	Price: ★★	Price: ★★	Price: ★★
Insulation: ★★	Insulation: ★	Insulation: ★★	Insulation: ★★	Insulation: ★★
Strength: ★★	Strength: ★★	Strength: ★★	Strength: ★★	Strength: ★★

Lightweight van body panel design & production



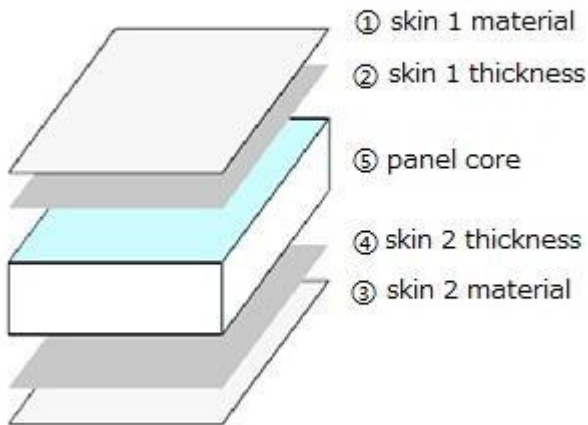
Recommendation:

Property	Dry box	Refrigerated box
FRP Skin thickness (outside)	1.5 mm - 2.5mm, UV proof, smooth shiny white RAL9010	
FRP Skin thickness (inside)	1.5mm - 2.0mm Matt white (optional for inside or outside)	
Gel coat thickness of FRP sheet	200µm	200µm
Core material - plywood	Y	N
Core material - PP honeycomb	Y	N
Core material - XPS foam	O	Y
Core material - PU foam	O	Y
Core material - PETcore	O	Y
Panel thickness available	30mm -100mm	30mm -100mm
Panel length	customized	
Panel width/height	Maximum 2650mm	Maximum 2650mm
Mechanical properties		durable thermal insulation 
	High mechanical strength 	High mechanical strength 
	Moisture resistance 	Moisture resistance 

Y: recommended O: optional N: Deprecated

TOTAL COMPOSIT SANDWICH PANEL

To be cost efficient, refrigerated truck bodies, must be insulated effectively and reliably whilst also being lightweight and built with highly durable materials to last for decades.



Skin material :

FRP sheets

Panel Core :

PU, XPS, EPS

PP Honeycomb, plywood

PET core

Floors:

Used for camper vans and delivery trucks, plywood system is good choice to produce a lightweight yet effective load-bearing structure. It provides stiffness, insulating properties and lightweight compared to traditional materials.

Thicknesses available: 75mm - 110mm

Side Walls:

As a replacement for fiberglass reinforced plywood panels, total Composite panels (FRP skin and PU, XPS, PP Honeycomb foam core) can be used as walls and roofs.

Comprised of a high performance gel-coat fiberglass reinforcement sheet , and combined with a lightweight honeycomb or foam core.

It walls provide stiffness, insulating properties, corrosion and dent resistance, and lightweight compared to traditional materials, such as aluminum, steel, and wood.

Available in sizes :30mm -100mm

Roofing :

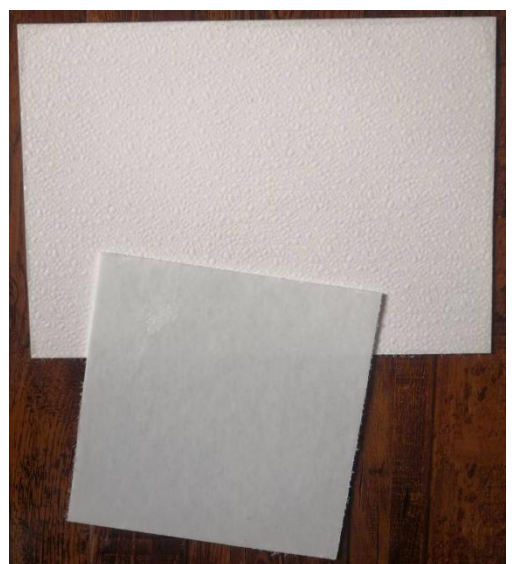
Door:

FRP Gel coat Sheet



Technical dates & mechanical properties:

Thickness	1.5mm-2.5mm-3.0mm
density	1.5mm --- 2.1kg/m ² 2.0mm --- 2.75kg/m ² 2.5mm --- 3.5kg/m ²
Color	RAL (customized)
Gel coat thickness	200 μ m
Glass content	30%
Flexural strength	190 Mpa
Tensile strength	100 Mpa
Barcol hardness	50
Distortion temperature	168 °C
pyroconductivity	0.158W/M.K
Appearance	Pebble , smooth, leaf texture as below
Application	inside /outside skin of FRP Van panel
water absorption	0.3%



Pebbled texture panel

Thickness:1.2mm-3.0mm
Max width: 2750mm
Feature: anti-aging, good decorative surface, impact resistant.
Standard color: white creamy, Black



Smooth panel

Panel type: Gel coating flat panel & Non-gel coating flat panel
Thickness:1.2-3.0mm
Feature: anti-aging, smooth glossy surface.
Standard color: White Creamy Black



FRP Leaf Texture Panel

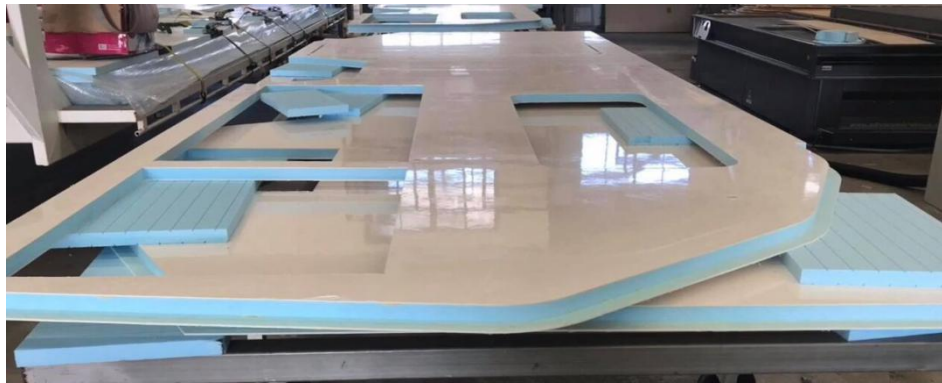
With 300μm gel coating on surface, anti-skid
Thickness:1.2-3.0mm
Standard color: White Grey Blue

Core material



Extruded polystyrene foam (XPS) :



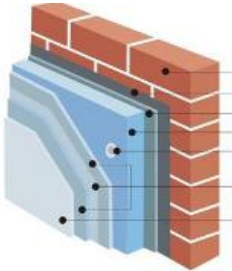

- good thermal insulating properties and moisture resistance, lightweight
- Application : wall insulation, steel plate sandwich panel, cold-room panel, etc



Our environmental protection XPS foam, not contain CFC & HCFC, no radioactive material, no formaldehyde, environmental protection, no poison, with fire-proof function.

Datasheet:

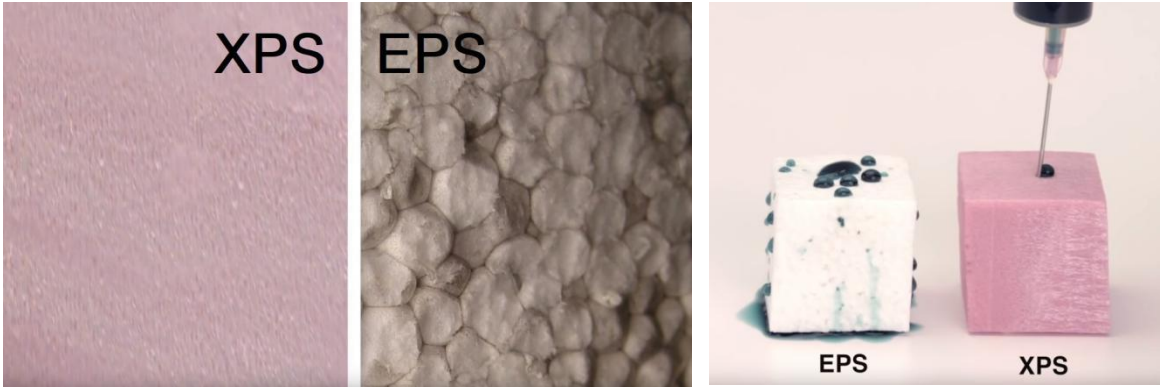
Model	X200	X250	X350	X400	X450	X500	X600	X650	X700	X800
Thermal Conductivity	0.028-0.030 W/mk									
Density	26-40kg/m ³									
Water absorption rate	0.3-1%									
Oxygen index	26%, 30%									
Tensile strength	100-600 Kpa									
Size	L: 1200/2400mm					W: 600/1200mm				
Surface	Smooth, groove, remove the peel									

Environmental protection ,not contain CFC & HCFC	Fire proof, our XPS Foam adopt advance fire-proof material, not easy to burn, more safe for end users.
	
Lower thermal conductivity, it's a good thermal insulation material.	High strength upto 150-600Kpa
	

Expanded Polystyrene (EPS) foam is also known as beaded foam and features a closed cell core.

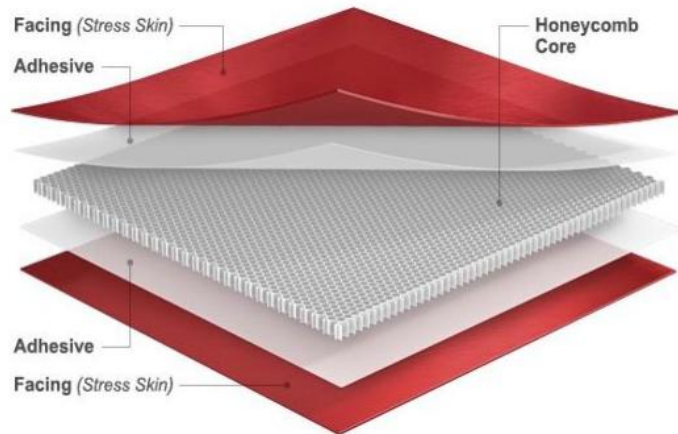
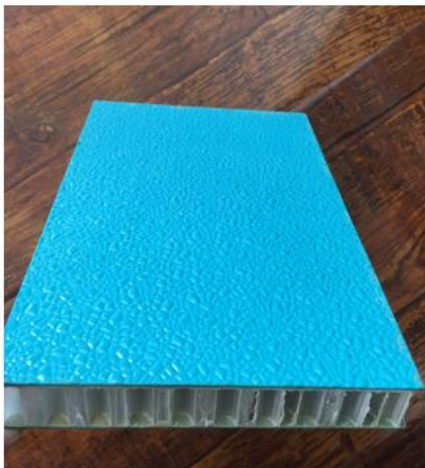
EPS is made using small expandable beads that inflate with heat, and then are placed into a mould, where they expand to fit the shape. The expanded beads trap air, which gives expanded polystyrene its lightweight properties. This also leaves it open to water absorption (though new developments are happening with a “fused cell type of polystyrene” to reduce the water absorption), reducing the blank effectiveness over time.

A very important difference between a polyurethane and polystyrene blank is that traditional polyester resins cannot be used with a polystyrene blank during the glassing process. This would cause the polystyrene foam to dissolve.



Polypropylene Honeycomb Cores (PP Honeycomb) :

- a strong but flexible lightweight material that provides optimal mechanical performance in composite sandwich structures.



Polyurethane foam core (PU) :

- The coefficient of thermal conductivity is $0.023w/(m \cdot k)$, which ensures better thermal insulation efficiency. In practice, this effectively keeps the building absorbing heat and brings enormous economic benefits.
- Durable and ecological, material is recyclable.



Plywood :



PETcore :

Polyethylene Terephthalate (PET) is a thermoplastic that produces a lower cost, yet structurally sound core product. PET cores can be heated and conformed to specific shapes and are growing in applications as more manufacturers are realizing its consistent properties and benefits.



Runfeng clients gallery:

唐山润峰复合材料有限公司

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