

# GMC SIERRA BOX AMBULANCE

GMC SIERRA 3500HD  
REGULAR CAB, 4WD, LONG  
WHEELBASE (25-SEI-351)

10-Speed Automatic

6.6L V8 GASOLINE (401 HP)



# BASE VEHICLE – TECHNICAL SPECIFICATIONS

GMC

6.6L V8  
SIDI

ENGINE

GMC

10-SPEED  
AUTOMATI

TRANSMISSION

GMC

DUAL (63.5  
GALLONS

TOTAL  
FUEL TANK

GVWR 14,000 lbs (6,350 kg)

Differential Auto Locking Rear

Axle Ratio 3.73

Transfer Case 2-Speed Autotrac

Suspension Heavy Duty





# INTERIOR & COMFORT



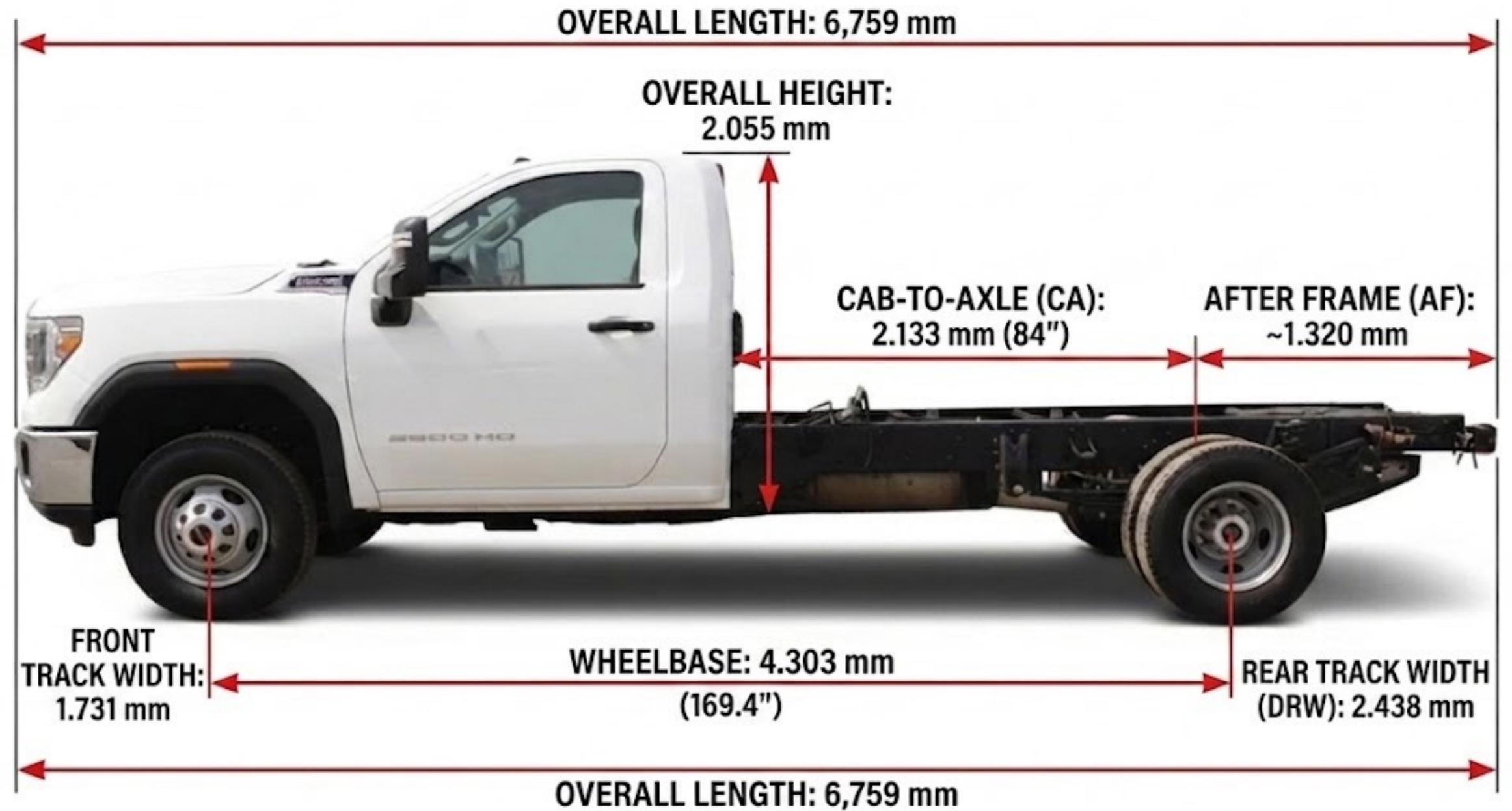
SEATS 40/20/40 Split Bench  
Driver Seat POWER ADJUSTABLE  
TRIM CLOTH – JET BLACK  
FLOOR RUBBERIZED VINYL  
POWER OUTLET 230V  
ENTRY KEYLESS ENTRY & START



ALTERNATOR DUAL (170A + 220A)  
Battery Auxiliary 700 CCA  
Trailer System Integrated BRAKE CONTROLLER  
AIR INTAKE HIGH CAPACITY  
PROTECTION SKID PLATES

# DIMENSIONS

## GMC SIERRA 3500 HD CHASSIS CAB (REGULAR CAB) - TECHNICAL DIMENSIONS

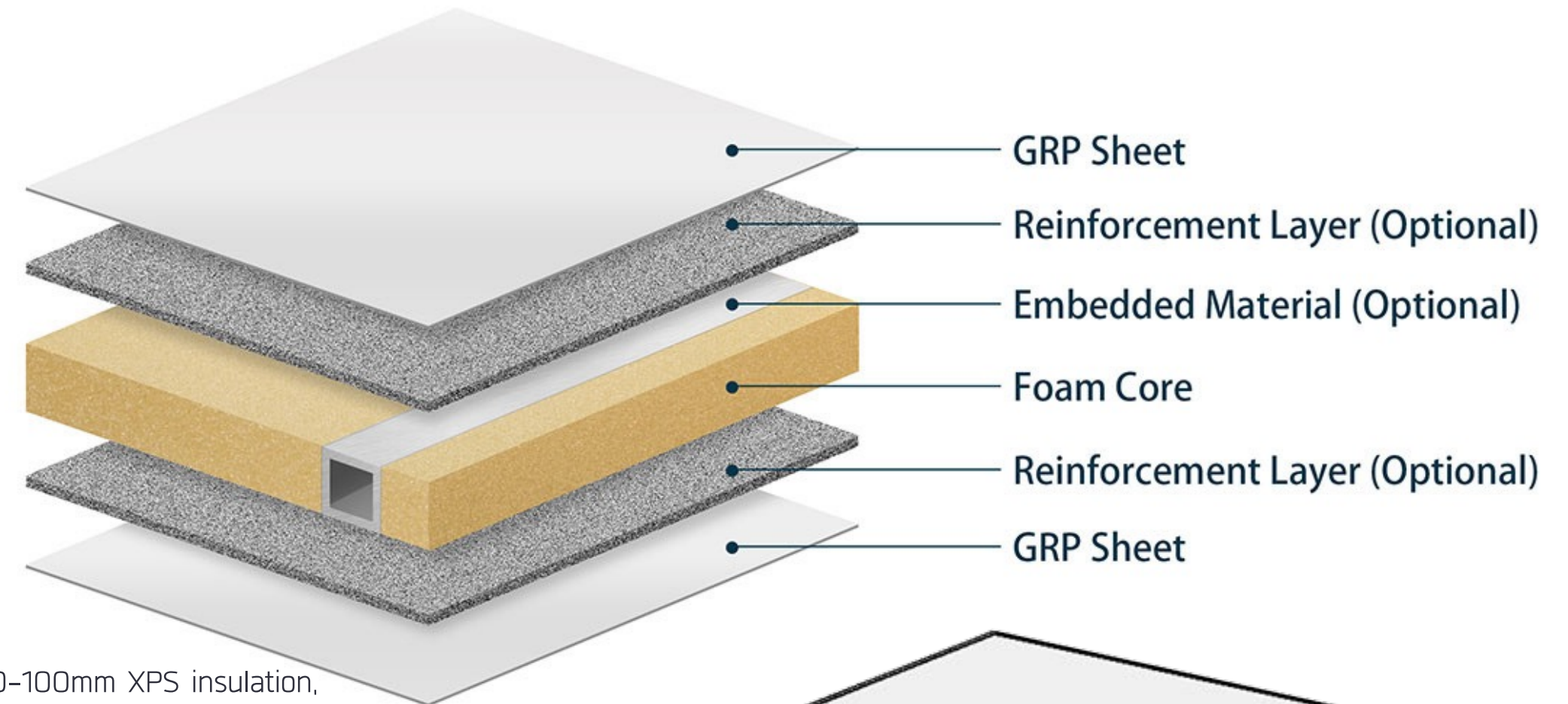


# DIMENSIONS



# BODY STRUCTURE

## GRP (CTP) COMPOSITE PANELS

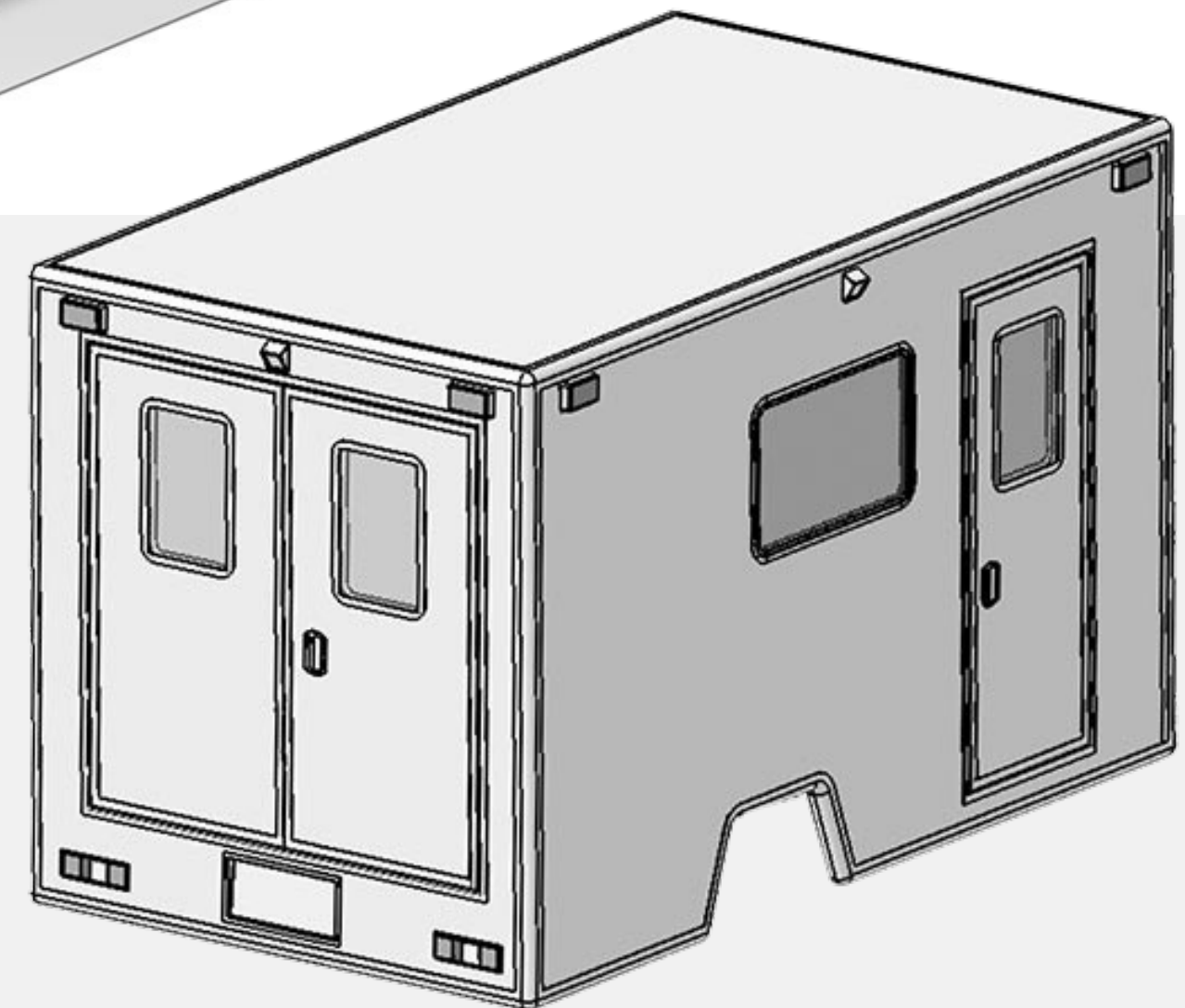


This high-performance composite panel—consisting of 1.5+1.5mm GRP (CTP) skins, 30–100mm XPS insulation, and a 6mm Poplar Plywood core—is the premium choice for ambulance body construction.

Why it's ideal for Ambulances:

- Superior Durability: The GRP and plywood combination provides high impact resistance and structural rigidity, ensuring patient and crew safety during high-speed transit.
- Elite Thermal Control: The thick XPS core acts like a cold storage unit, maintaining a stable internal temperature for sensitive medical equipment and climate control.
- Ultra-Lightweight: Despite its strength, the poplar plywood keeps the vehicle light, improving maneuverability and reducing fuel consumption.
- Hygienic & Seamless: Manufactured via automated pressure bonding, the panels are non-porous, easy to disinfect, and resistant to bacteria—essential for medical environments.

This panel delivers the perfect balance of high strength, maximum insulation, and lightweight performance for modern emergency vehicles.



# CABINETS

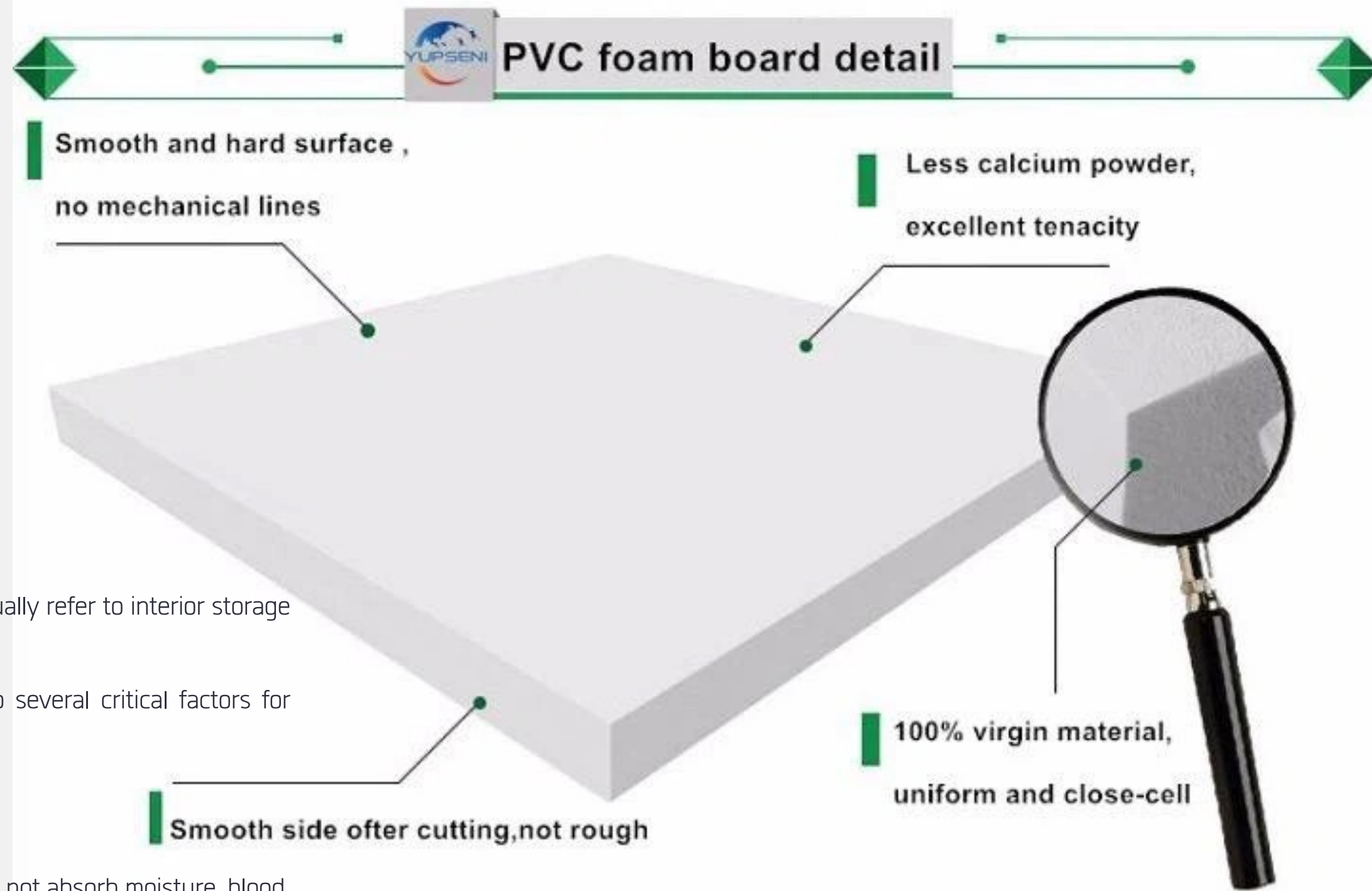
## FOAM BOARD MEDICAL CABINETS

In the context of ambulances and medical vehicles, Foam Board Medical Cabinets usually refer to interior storage systems constructed from PVC foam board (also known as expanded PVC or Foamex).

These systems are often preferred over traditional metal or wood cabinets due to several critical factors for emergency environments:

### Key Advantages for Medical Use

- **Hygienic & Sterile:** PVC foam board has a smooth, non-porous surface that does not absorb moisture, blood, or bodily fluids. This prevents bacterial growth and makes the cabinets easy to disinfect with harsh hospital-grade chemicals.
- **Lightweight for Vehicles:** Weight reduction is vital for ambulances to improve maneuverability and fuel efficiency. Foam board is significantly lighter than aluminum or plywood but maintains high structural integrity.
- **Impact & Vibration Resistance:** Unlike metal, which can rattle or dent, foam board absorbs road vibrations and resists cracking or chipping. It is often combined with ABS coating for extra surface durability.



# FLOORING

## EPOXY

In the context of ambulances, epoxy most commonly refers to a highly durable, antibacterial floor coating used in patient cabins or a material for DIY craft molds.

### Professional Ambulance Flooring

Modern ambulances use epoxy floor coatings to meet strict health and safety standards.

EMS Mobil Sistemler A.Ş +1

- Hygiene: Epoxy provides a seamless, non-porous surface that is antibacterial and easy to wash, which is critical for infection control.
- Durability: It can withstand heavy foot traffic, medical equipment movement, and frequent chemical cleaning without cracking or chipping.
- Safety: Many coatings are designed to be slip-resistant and antistatic to protect both paramedics and patients during transport.
- Station Flooring: Large-scale epoxy systems are also used in ambulance station bays to handle oil leaks and heavy vehicle loads.



# LAYOUT

## SUITABLE FOR 2 STRETCHERS

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# VENTILATION

ROOF TYPE VENTILATION FAN



# CONTROL PANEL

MAIN ELECTRICAL CONTROL PANEL



# POWER INPUT

## EXTERNAL 230V SHORE POWER (2M CABLE)

External **230V Shore Power** is a specialized power input system that allows an ambulance to connect directly to the standard electrical grid when parked, ensuring the vehicle's critical systems remain operational without running the engine.

### Key Functions & Benefits

- **Maintains Equipment:** Powers essential medical devices like heart monitors, defibrillators, and ventilators, keeping their internal batteries fully charged and ready for immediate use.
- **Battery Management:** Recharges the ambulance's auxiliary "house" batteries to prevent them from being drained by high-draw electronics like radios, GPS, and mobile data terminals.
- **Climate Control:** Operates climate systems, such as onboard refrigerators for medications and heaters/coolers for the patient compartment, ensuring a stable environment.
- **Fuel Efficiency:** Eliminates the need to idle the diesel engine while at the station or hospital, reducing fuel consumption and engine wear.



# INVERTER

240 V

The German King Power Inverter 300W, as detailed by [Emerald Global Limited](http://emeraldglobaltd.com), is a portable, pure sine wave micro inverter designed for off-grid and solar applications.  
emeraldglobaltd.com

## Key Specifications

- Input Voltage: 12V DC
- Output Voltage: 220V / 240V AC
- Output Frequency: 50Hz
- Output Current: 15–20A
- Waveform: Pure Sine Wave
- Weight: 1.55 kg
- Style: Portable and compact
- Inverter Type: DC/AC, off-grid solar inverter



# LIGHTING

## 12V, 18W LED CEILING LIGHTS

- 12V (Voltage): This indicates the light runs on Direct Current (DC) power, typically from a 12V battery system. You cannot plug these directly into a standard wall outlet (110V/220V AC) without a transformer or adapter.
- 18W (Wattage): This is the power consumption. For an LED, 18W is quite bright—roughly equivalent to a 100W-120W traditional incandescent bulb.
- LED: Standing for Light Emitting Diode, this technology is highly efficient, generates very little heat, and has a long lifespan.



# WARNING SYSTEM

## 360° WARNING LIGHTS SYSTEM

- **Warning Lights System:** This means the vehicle is equipped with lights that are visible from every angle—front, back, and both sides—ensuring maximum visibility to other drivers and pedestrians in an emergency.
- **Lightbar with Siren & P.A. System:**
- **Lightbar:** The main unit mounted on the roof that houses the flashing lights.
- **Siren:** The audible warning device.
- **P.A. (Public Address) System:** A microphone and external speaker setup that allows the driver to broadcast verbal instructions or announcements to people outside the vehicle.
- **Additional Lights:**
- **Side & Front LED:** Smaller, auxiliary lights placed on the grill, bumper, or sides of the vehicle to provide extra visibility where the main lightbar might be obstructed.
- **Beacon Lights:** Powerful, rotating or flashing individual lights, often used to signal a specific hazard or to mark a stationary emergency vehicle.



# AIR CONDITIONING

4 OUTLET SYSTEM

# HEATING

WEBASTO



# GMC SIERRA BOX AMBULANCE



SPACIOUS AND COMFORTABLE USABLE AREA



POWERFUL AND DURABLE 4X4, BUILT FOR TOUGH CONDITIONS.



Offers a generous and well-designed interior space, ensuring comfort and practical usability at all times.

A rugged and reliable 4x4 system delivers outstanding performance, even in the harshest and most demanding environments.

ANY QUESTIONS?