

The SIMONA logo is located in the top right corner. It consists of the word "SIMONA" in a bold, white, sans-serif font, set against a solid red rectangular background.

SIMONA

A large, dark gray, rectangular panel of SIMOPOR CONSTRUCT material is shown at an angle, floating in the center of the image. The background is a complex, white, geometric wireframe structure that resembles a modern architectural design or a technical drawing of a building's framework.

SIMOPOR CONSTRUCT

High on lightweight performance, low on cost

GLOBAL THERMOPLASTIC SOLUTIONS

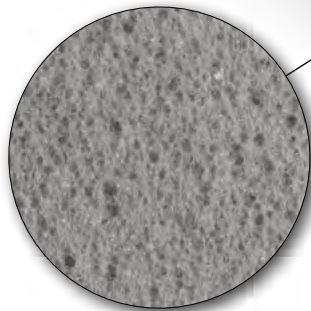
SIMOPOR CONSTRUCT –

Reducing costs with a lightweight all-rounder

Our PVC free-foam sheet SIMOPOR CONSTRUCT comes with a compelling value proposition in the form of low weight, high stability and excellent processing capability. By using recycled materials, we have applied a full-circle approach to the material cycle – delivering a sustainable and cost-effective alternative to traditional solutions featuring wood or metal. SIMOPOR CONSTRUCT offers advantages typical of plastic, such as resistance to moisture and chemical media, protection against corrosion and decay, and thermoformability – a combination of properties that paves the way for new design solutions in many fields of application.

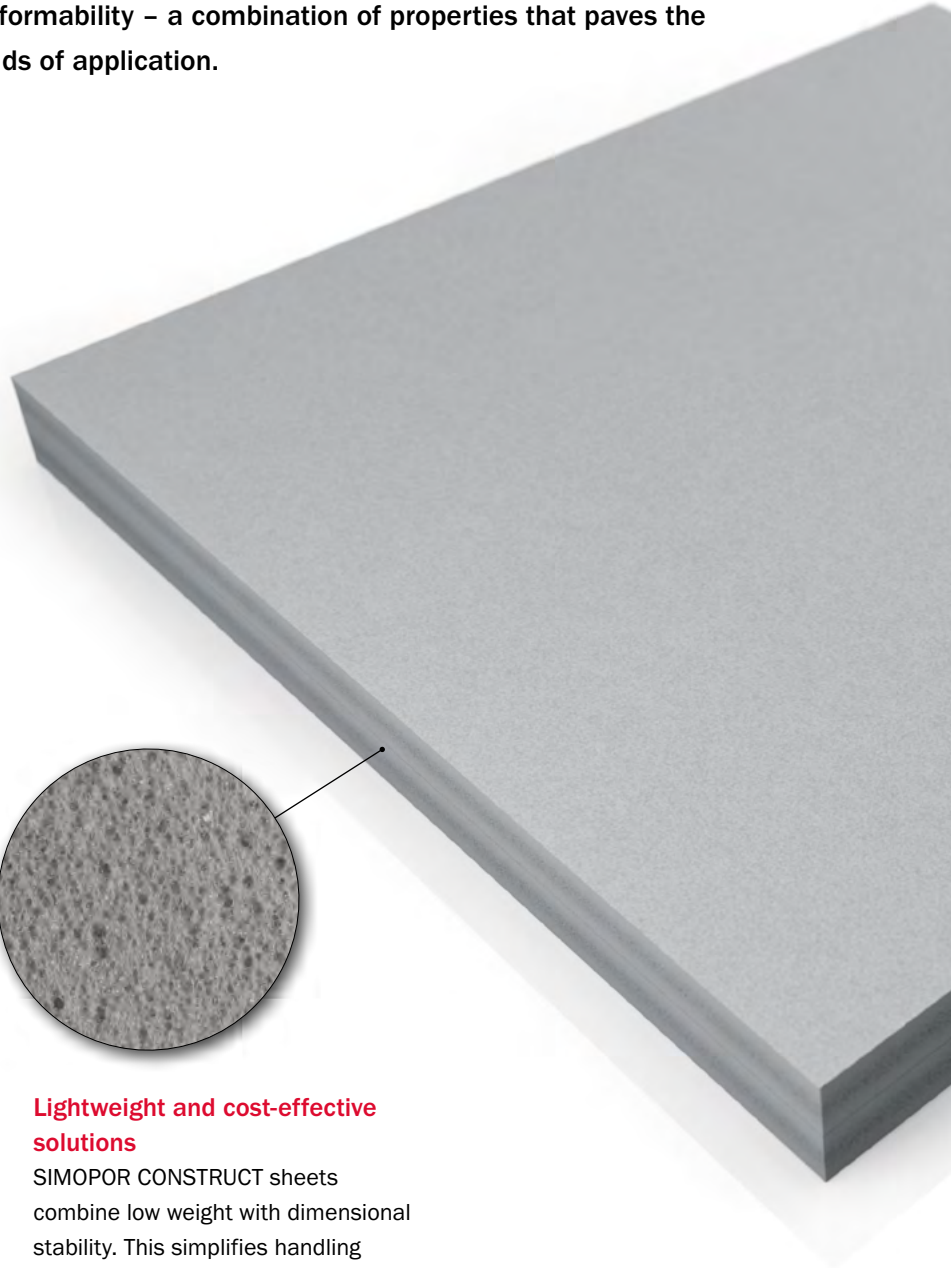
Excellent properties

- Low weight
- Water- and moisture-resistant
- Good chemical resistance
- Corrosion-free
- Good insulation properties
- Vibration- and sound-absorbent
- Good processing capability
- Thermoformable
- Homogeneous surfaces
- Dimensionally stable
- Mite-repellent
- Economical
- Durable
- Sustainable
- Hygienic
- Glueable
- Low-emission
- REACH-compliant
- RoHS-compliant



Lightweight and cost-effective solutions











SIMOPOR CONSTRUCT sheets combine low weight with dimensional stability. This simplifies handling during processing and significantly reduces material input and costs.





Processing with conventional woodworking methods

SIMOPOR CONSTRUCT can be machined like wood and possesses good mechanical properties (e.g. screw withdrawal strength, etc.). The sheets also provide the option of thermal processing by means of thermoforming.

	Sawing
	Bolting
	Drilling
	Milling
	Backing, laminating
	Water-jet cutting
	Glueing
	Warm bending
	Printing
	Spray painting

Good insulation properties

Owing to its free-foam structure, SIMOPOR CONSTRUCT has a very low level of thermal conductivity. As a result, SIMOPOR CONSTRUCT sheets are also suitable for applications such as thermal partition elements.

Thermal conductivity comparison

Material	Thermal conductivity W/(m·K)
PUR rigid foam boards	0.024 – 0.035
Expanded polystyrene (EPS) boards	0.035 – 0.045
Calcium silicate boards	0.053 – 0.070
SIMOPOR CONSTRUCT	0.065
Wood composite boards	0.13
Steel	15 – 60
Aluminium	200

SIMOPOR CONSTRUCT – Structural applications

On account of its low weight, excellent weather resistance, good insulation properties and recycled content, **SIMOPOR CONSTRUCT** is the perfect choice for particularly cost-effective applications.

SIMOPOR CONSTRUCT sheets are a useful alternative to conventional building boards made of wood, wood composite, calcium silicate or metal.

Sandwich construction and thermal partition elements

- Facade elements
- Roof edges/flat roof fascia trims
- Components such as doors and window panels
- Wall linings
- Milled and coated profiles



Vehicle interior fittings

- Partitions
- Lightweight furniture
- Shelf units
- Shelves



Commercial and industrial construction

- Lightweight partitions
- Hygienic wall and ceiling linings
- Livestock housing construction
 - Individual calf stalls
 - Poultry nests
 - Stall partitions




SIMOPOR CONSTRUCT –

Product range and material specifications

SIMOPOR CONSTRUCT sheets have a homogeneous, grey surface and a closed-cell foam structure. They are available from stock in the format 2,440 mm x 1,220 mm as standard. Other formats, thicknesses and colours are available on request.

SIMOPOR CONSTRUCT product range, extruded sheets (2,440 x 1,220 mm)

	Thickness in mm	Product number	Colours
	10.0	10030546	grey
	12.0	10030547	grey
	15.0	10030548	grey
	19.0	10030549	grey

Bold type = ready for dispatch (goods in stock); light-faced type = available on request
Other formats, thicknesses and colours or sheets with a B1 low-flammability rating are available on request. For further information, please contact our Sales Department: sales@simona.de.

SIMOPOR CONSTRUCT material specifications

Density, g/cm ³ , DIN EN ISO 1183		0.50
Tensile modulus of elasticity, MPa, DIN EN ISO 527		500
Yield stress, MPa, DIN EN ISO 527		8
Flexural modulus of elasticity, MPa, DIN EN ISO 178		670
Flexural strength, MPa, DIN EN ISO 178		15
Shore hardness D (15 s), DIN EN ISO 868		30
Mean coefficient of linear thermal expansion, K ⁻¹ , ISO 11359-2		0.7 · 10 ⁻⁴
Fire behaviour	DIN 4102	B2 normal flammability*
	UL 94	V-0*
Thermal conductivity, W/(m·K), DIN EN 12667		0.065
Temperature range, °C		0 to +60

* Self-assessment without test certificate

The figures are approximate, relate to the particular material and may vary depending on the fabrication process and how test specimens are made. They are usually averages of measurements on extruded sheets 4 mm thick. In the case of sheets solely manufactured by means of pressing they are usually measurements on sheets with a thickness of 20 mm. There may be discrepancies if sheets are not available in those thicknesses. In the case of backed sheets the specifications relate to unbacked basic sheets. The figures cannot necessarily be applied to other product types (e.g. pipes, solid rods) made of the same material or to products that have been subjected to further processing. The processing company or user shall be responsible for checking whether materials are suitable for a specific application. The specifications are merely to be regarded as a planning aid. In particular, they do not constitute guaranteed properties. You can obtain further information from our Technical Service Centre at: tsc@simona.de.

 Discover also our SIMOPOR PVC free-foam sheets for signs and graphics, exhibition stands, and display design: simopor.simona.de/en



Welcome to SIMONA –

The home of expertise and innovation



SIMONA is one of the leading manufacturers and development partners for thermoplastic products. Applying our exceptional skills in process engineering, we produce sheets, finished parts, profiles, welding rods, rods, pipes, fittings and valves to meet the highest demands.

Our Technology Centre consolidates the fields of research and development at a single location. It enables us to implement more customer-specific developments with new materials and material combinations for the purpose of reducing time to market. Our principal focus: meeting tomorrow's requirements today.

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