

HASANOĞLU GROUP

SANDWICH PANEL _____

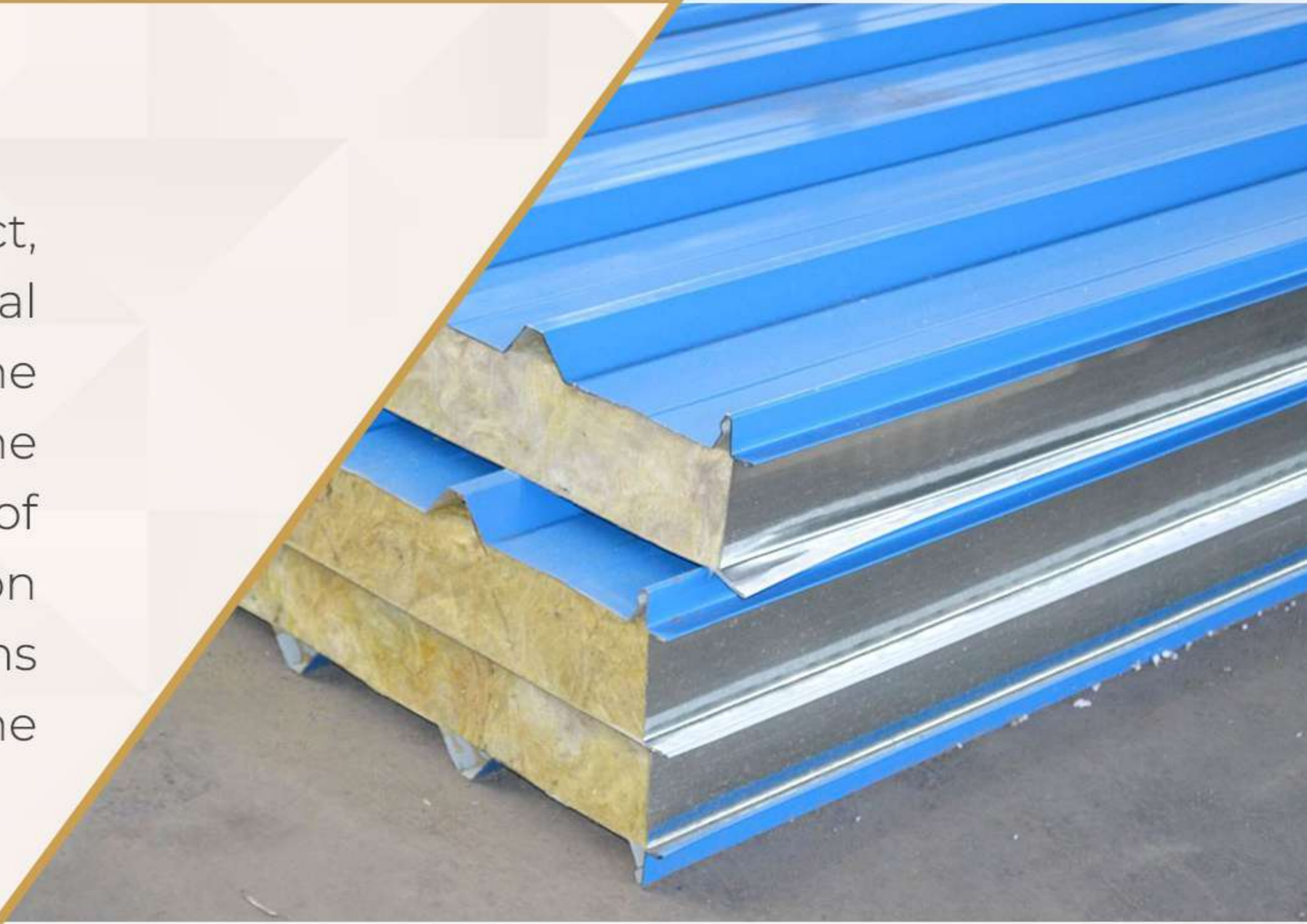


 **HASANOĞLU
GROUP**

 +90 554 551 65 67
 www.hasan-oglu.com
 info@hasan-oglu.com

What is Sandwich Panel?

Sandwich panel is a composite product, which consists of combining two metal surfaces with insulating materials. The protection and long-term use of the sandwich panel depends on the design of the product components and the selection of the correct technical specifications according to the needs of the building, the environment and the climatic conditions.



Advantages of sandwich panels:

01

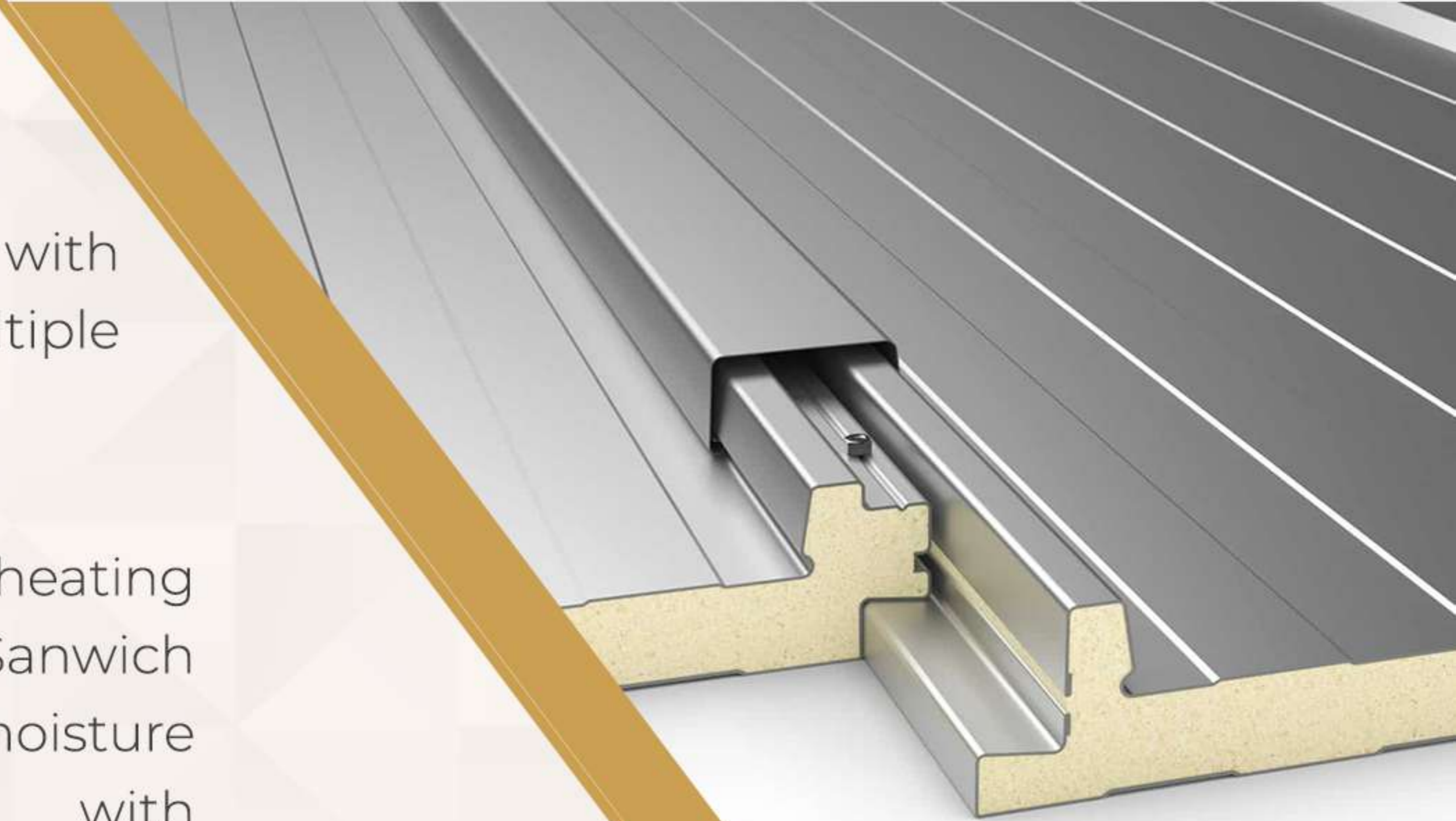
Quick and easy installation

Made in pieces that fit together, with different insulating patterns, multiple colors, and sizes as desired.

02

Ideal thermal insulation

Helps with cooling in summer and heating in winter, and also reduces energy. Sandwich panels also prevent mold and moisture resulting from condensation with insulation and thermal movements, and help keep buildings strong and extend their lifespan.



Advantages of sandwich panels:

03

Economical investment

You can reduce the pace of construction and installation, by choosing the most suitable sandwich panel according to the types of buildings. Also, the light weight of the panels provides you with great advantages in terms of transportation costs and basic construction.

04

Your buildings with a wonderful aesthetic appearance

You can give the external facades of your buildings movement and an aesthetic appearance thanks to these panels designed horizontally, vertically, at different angles and colors. And reduce the sounds coming from noisy places to the buildings.





Advantages of sandwich panels:

05

High fire resistance

While choosing fire-resistant sandwich panels, you should choose rock wool panels or polyisocyanurate panels, taking into account factors such as the duration and extent of fire resistance, the size and height of the building.

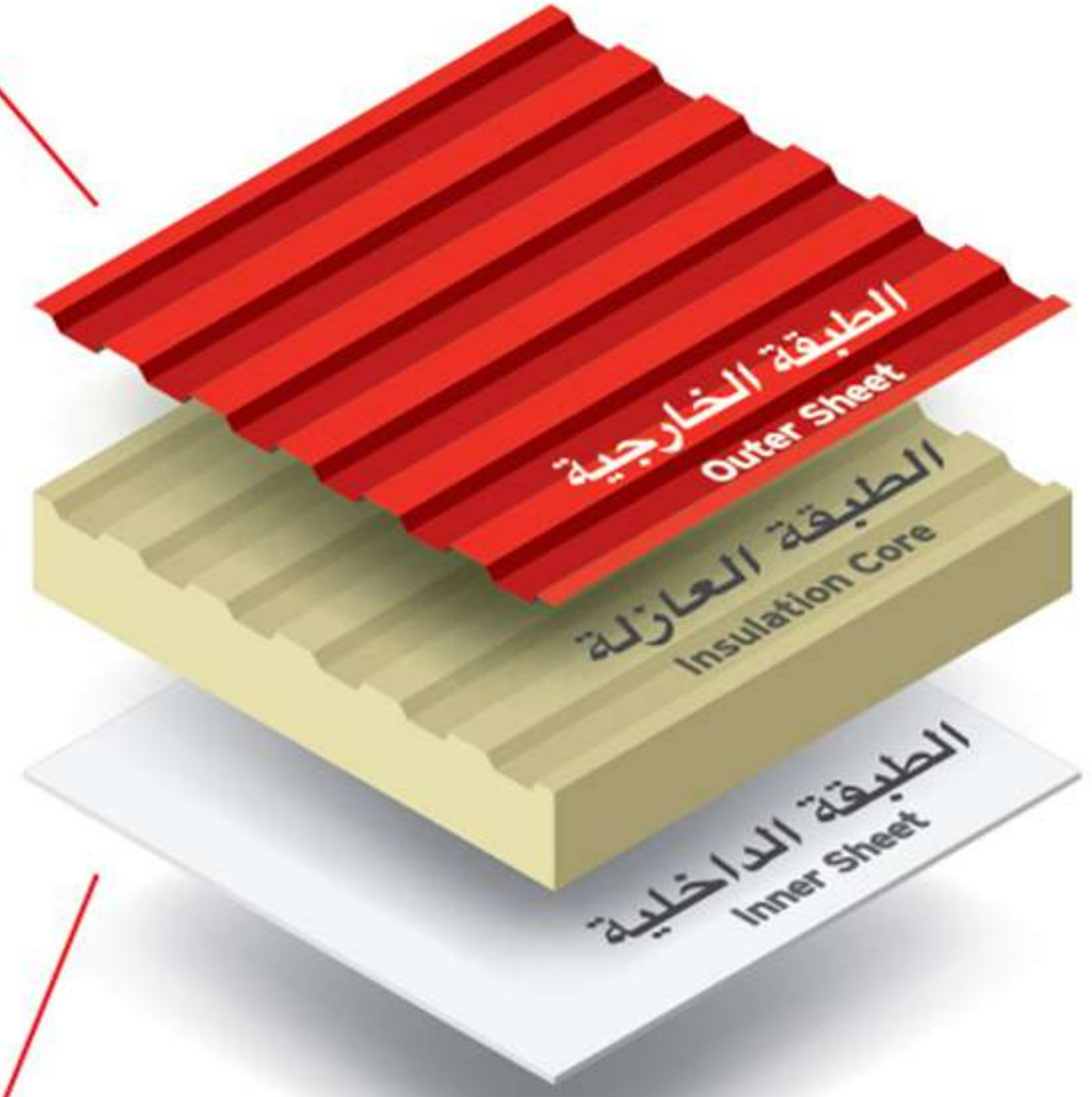
06

Air and water resistance

The sandwich panel provides effective insulation against natural conditions such as snow and rain, and prevents the formation of moisture or mold. It also increases the resistance of the building, and adds greater endurance to it.

Sandwich Panel Layers

It is produced in three layers, which are the inner layer, the outer layer, and the insulating layer.



Sandwich Panel Insulation Material Selection Guide

All buildings differ in their function and purpose. Therefore, sandwich panels differ according to their intended use, including thermal insulation, water insulation, sound insulation, and fire resistance. Choosing the insulation type required appropriately for the building's needs positively affects the performance and operation of the panels.

You can choose the appropriate insulation materials for the purposes and needs of your buildings from the sandwich panel selection table below.

Mechanical Resistance	Fire Resistance	Sound Insulation	Water Insulation	Thermal Insulation	
★★★★	★★	★★	★★★★	★★★★	PUR
★★★★	★★★	★★	★★★★	★★★★	PIR
★★★	★★★★	★★★★	★★★	★★★	Rock Wool
★★	★	★★	★★★	★★★	EPS

Very Good ★★★★★ Good ★★★ Medium ★★ Weak ★



Sandwich Panel Insulation Material Selection Guide



01

Polyurethane (PUR)

Polyurethane provides perfect sound insulation thanks to its encapsulated cell structure. This material has dimensional stability, does not absorb water, and does not allow bacteria to grow inside it. It also has high mechanical performance thanks to its high-pressure resistance property.

02

Polyisocyanurate (PIR)

Polyisocyanurate is an improved version of polyurethane with improved fire resistance due to its different structure. Compared to polyurethane, it greatly inhibits the formation of smoke in the event of a fire.



Sandwich Panel Insulation Material Selection Guide



03

Rock Wool

You can choose mineral wool materials for insulation, especially for buildings that require high sound insulation, or that contain explosive or combustible materials.



04

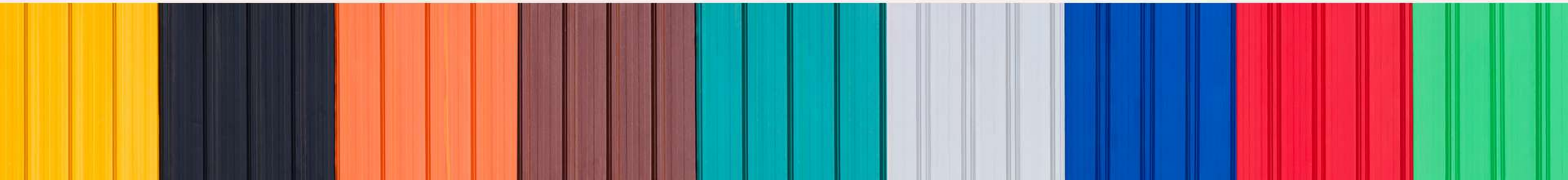
Expanded Polystyrene (EPS)

Expanded polystyrene is the lightest and most economical type of insulation material

Paint and Colors

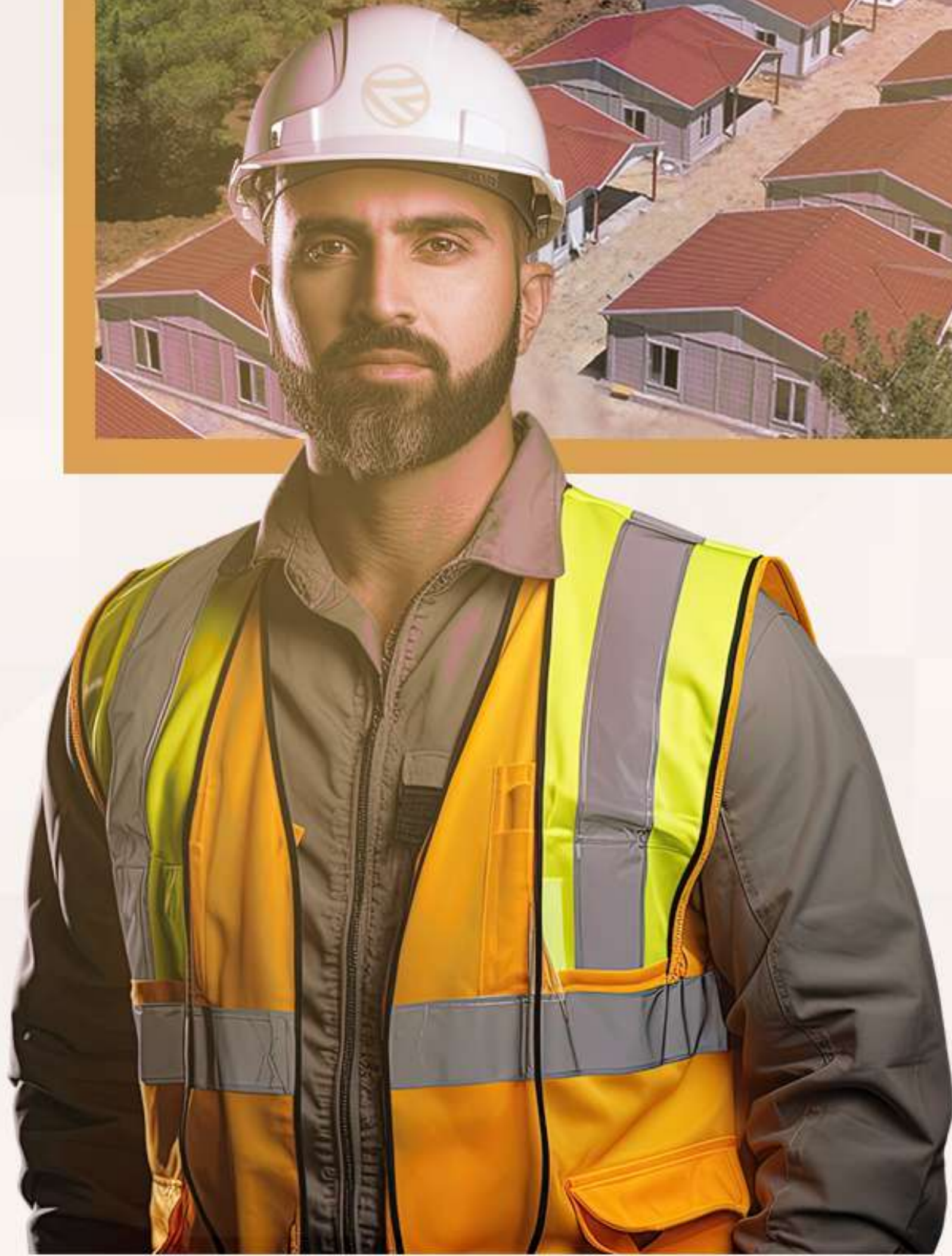
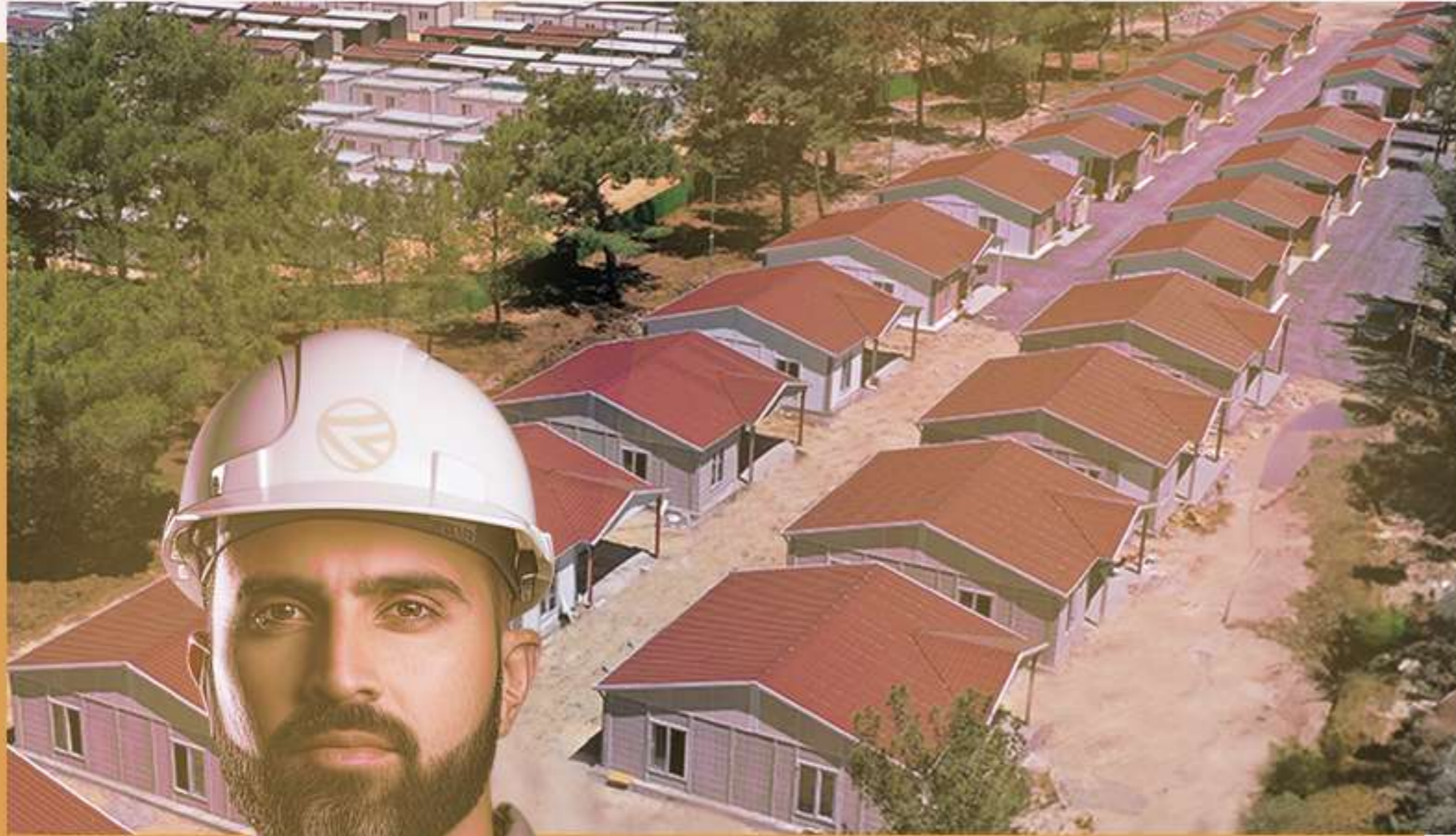
The RAL color chart is used as a reference while explaining the colors used in the production of coated sheet metal. You can see the standard polyester coated sheet metal colors used in sandwich panels in the table below. The customer can also choose any desired color upon request.

RAL	اللون Colour
9002	
9006	
3000	
3004	
3009	
5010	
6018	



Sandwich Panel Application Areas

Sandwich panels are a durable and economical solution for various buildings, including factories, stadiums, malls, military structures, and prefabricated buildings.





HASANOĞLU
GROUP

HASANOĞLU GROUP

We offer comprehensive products with reliable quality, excellent performance, and efficient service.



Our services

Shipping Services:

Fast and secure delivery to all parts of the world

01

Price vs Quality:

We offer our products at affordable prices

02

Safe and Secure Delivery:

Professional handling to ensure the safety of the product.

03

Fast and Reliable Delivery:

Guaranteed quick delivery within specified deadlines.

04



HASANOĞLU
GROUP

We are proud to offer you everything you need
in the constructions sector

+40

Successful Projects

+20

Exporting Destinations

+7

Years of Experience





HASANOĞLU
GROUP

Collaborate with us



+90 554 551 65 67



www.hasan-oglu.com



info@hasan-oglu.com



AĞAOĞLU MY OFFICE 212
MAHMUTBEY MAH, Floor: 27
OFFIS: 444 Bağcılar/ISTANBUL

