



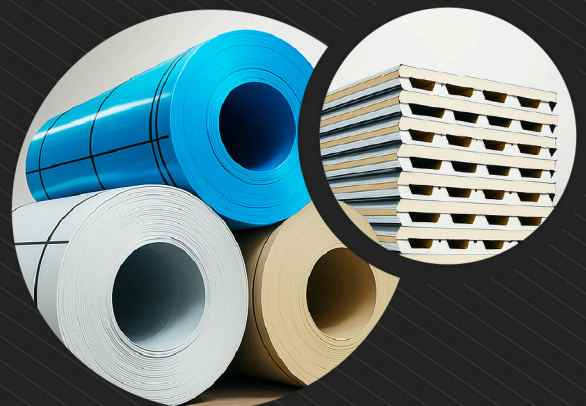
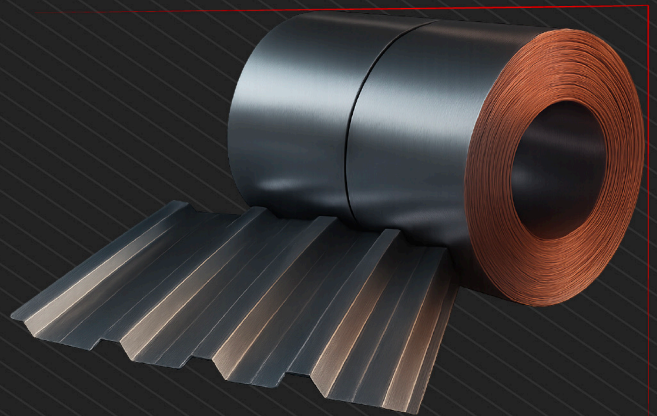
PYRAMIDS STEEL

OUR *VISION*

Proudly made in Egypt to serve the Egyptian market — reducing imports, boosting local industry, and reaching global markets with quality Egyptian products

OUR *PRODUCTS*

Pre-Painted Galvanized Iron (PPGI)
Sandwich panel



PPGI COILS & COLOR COATING

Our PPGI coils are available in a variety of standard and custom colors, offering exceptional surface finish, durability, and UV resistance

FEATURED RAL COLORS

THICKNESS :

0.18 mm – 1.00mm

COATING MASS :

zinc 80,120,180,275

WEIDTH :

800m- 1250mm

COATING SYSTEMS :

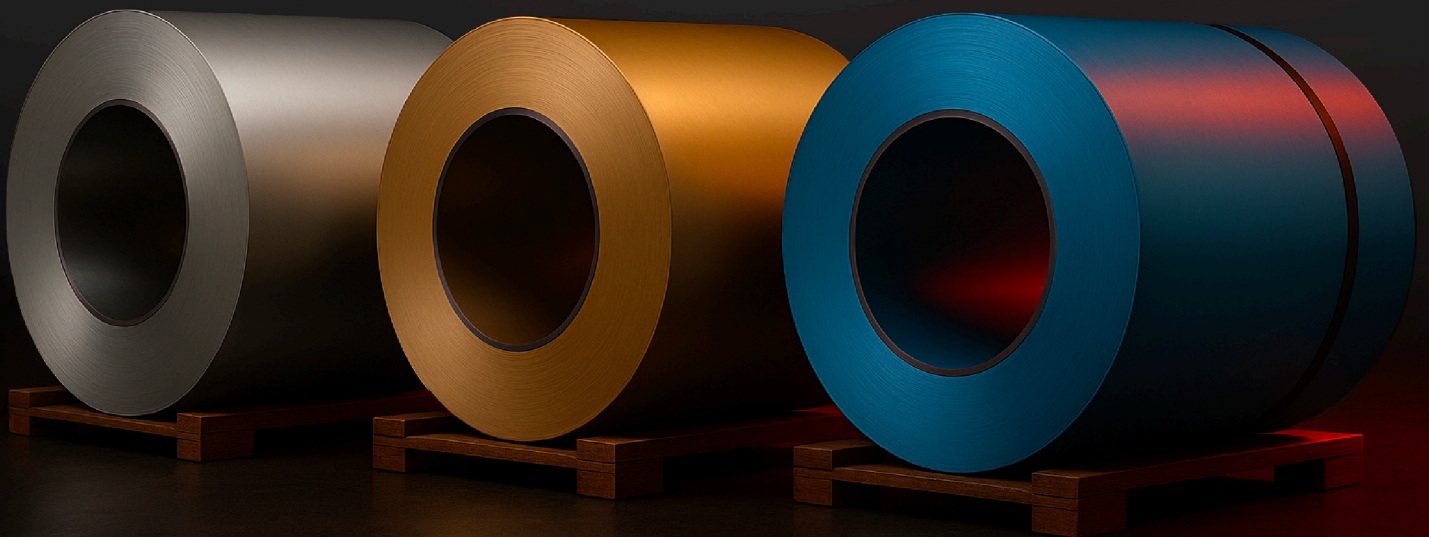
Polyester (PE), SMP, PVDF Glossy, Matte, Textured

TYPE OF SPANGLE :

zero spangle

COATING THICKHNESS :

top : 18:30 micron back : 6:30



Other RAL colors available upon custom request

PPGI COIL PRODUCTION LINE



Pyramids Steel ensures high-quality PPGI coils by following a precise, fully controlled production line. Each step is designed to guarantee superior surface quality, consistent coating thickness, corrosion resistance

1- UNCOILING:

Uncoiling is the process of unwinding metal from a large coil (also called a roll) to prepare it for further processing, such as cutting, forming, or rolling. The material is fed from the coil into the production line in a straightened or flattened form



2-DUAL HEAD UNCOILER SYSTEM :

A system that uses two coil mandrels to feed the production line without interruption. One coil is in use while the other is prepared as a backup, allowing for immediate switching and ensuring continuous operation



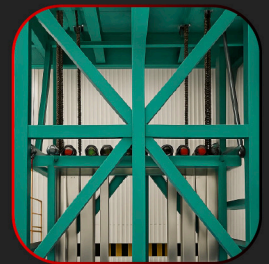
3-WELDING:

Welding in this context refers to joining the end of one coil to the beginning of the next



4- ENTRY ACCUMULATOR

An Entry Accumulator is a mechanical storage system used at the beginning of a continuous processing line to temporarily hold material (usually metal strip from coils) in order to ensure uninterrupted operation of the main production line while coil changeover (uncoiling and welding) takes place



5- CLEANING & DEGREASING

Cleaning & Degreasing is a surface preparation process used in manufacturing—especially in metal processing—to remove contaminants such as oil, grease, dirt, dust, and metal particles from the material surface before further processing like coating, painting, plating, welding, or forming.



PPGI COIL PRODUCTION LINE

6-CHEMICAL PRETREATMENT :

Chemical Pretreatment is a surface treatment process applied to metal materials before painting, coating, or plating to enhance corrosion resistance, paint adhesion



7- PRIMER COATING :

is the first layer of coating applied to a surface to improve adhesion, provide protection against corrosion, and create a smooth base for the topcoat. It enhances the durability and appearance of the final finish



8- BACK COATING :

is a layer of protective coating applied to the back or reverse side of a material, such as metal. It helps improve durability, resistance to environmental factors, and provides additional protection against corrosion or damage.



9- CURING OVEN :

is a heated chamber used to harden or set coatings, paints, adhesives, or materials by applying controlled heat over a specific period. This process speeds up chemical reactions, ensuring proper bonding, strength, and durability of the applied coating



10- COOLING SECTION :

is a stage in a production line where processed materials are cooled down after heating, curing, or coating to stabilize their structure and prepare them for handling, further processing, or packaging



PPGI COIL PRODUCTION LINE



11- TOP/FINISH COAT

is the final layer of paint or coating applied to a surface to provide the desired appearance, color, and protection against environmental factors like UV, moisture, and wear.



12- EXIT ACCUMULATOR :

is a storage system at the end of a continuous production line that temporarily holds material to allow the main line to keep running while downstream processes like cutting, stacking, or packaging are paused or adjusted.



13- RECOILING (IN COIL COATING) :

is the process of rewinding the coated metal strip back into a coil after coating, drying, and inspection, preparing it for storage, transport, or further processing.



PPGI APPLICATIONS

Pyramids Steel's PPGI coils are renowned for their durability, corrosion resistance, and versatility across multiple industries. Below are major applications where our products demonstrate their exceptional quality.

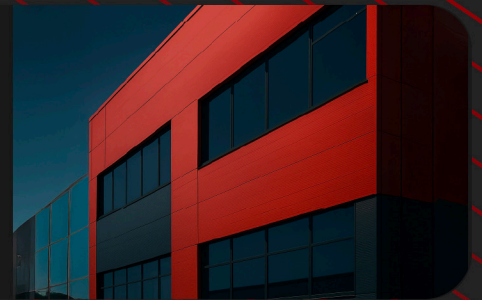
SANDWICH PANELS

Protective and weather-resistant outer layers for insulated panels



WALL CLADDING

Modern facades and architectural designs with high weather resistance



HOME APPLIANCES

Appliance bodies like refrigerators, washing machines, and microwaves



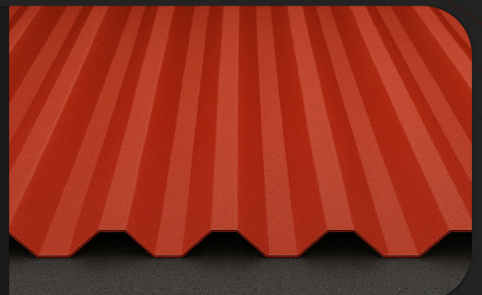
ADVERTISING BOARDS & SIGNAGE

Used in vibrant displays and durable outdoor signage



CORRUGATED SHEET

Roofing and cladding with classic profiles for weather resistance.



SANDWICH PANEL



WHAT IS A SANDWICH PANEL?

Sandwich panels are advanced building components made of two outer layers of pre-painted galvanized steel (PPGI) and a core of high-performance insulation material. They provide excellent thermal insulation, structural strength, and fast installation — making them ideal for industrial, commercial, and cold storage applications.

FEATURED COLORS

PANEL THICKNESS:

3cm, 4cm, 5cm

THICKNESS OF SHEET :

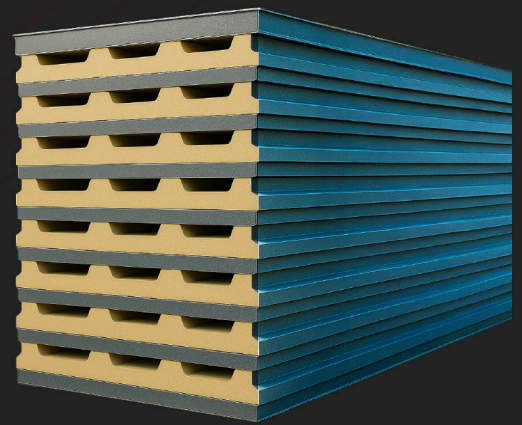
0.30, 0.35, 0.40, 0.50, 0.70 mm

GALVANIZATION :

zinc 80 to zinc 275 g/m²

DESTINY:

38 TO 45 KG /M³



PANEL STRUCTURE

OUTER SHEETS:

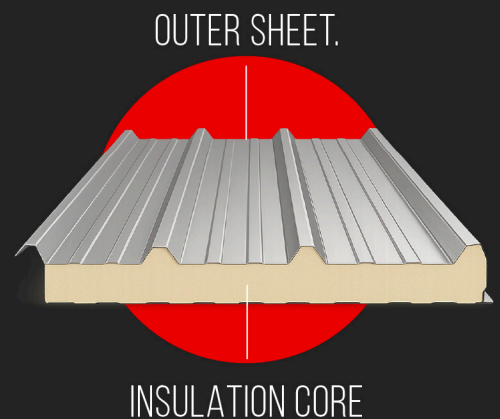
Pre-Painted Galvanized Steel (PPGI) for superior protection

INSULATION CORE:

PUR (Polyurethane) fire rated, a high-performance foam material used as the insulation core inside sandwich panels

SURFACE FINISH:

Available in flat, ribbed, or corrugated profiles



APPLICATIONS



INDUSTRIAL FACTORIES



WAREHOUSES



COLD STORAGE ROOMS



POULTRY FARMS



COMMERCIAL BUILDINGS



PREFABRICATED UNITS

PRODUCTION STAGES

(CONTINUOUS LINE)

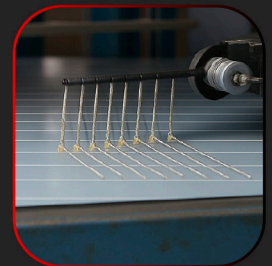
ROLL FORMING

The steel sheet passes through a roll forming machine to create the final surface shape — whether flat, corrugated, or patterned — according to the required design.



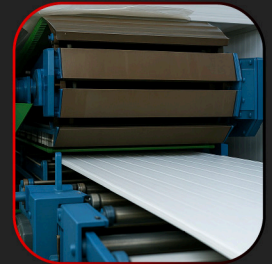
PU FOAMING INJECTION

A chemical mixture consisting of two components (Polyol and Isocyanate) is injected directly between the two steel sheets using a high-precision mixing head, where it expands automatically to form a uniform insulation layer.



DOUBLE BELT CONVEYOR

The panels pass through a double belt press of a specified length to ensure uniform thickness and consistent foam curing.



CUTTING UNIT

After complete curing, the sandwich panels are cut to the required lengths using an automatic flying saw to achieve precise dimensions.



PACKING & STACKING

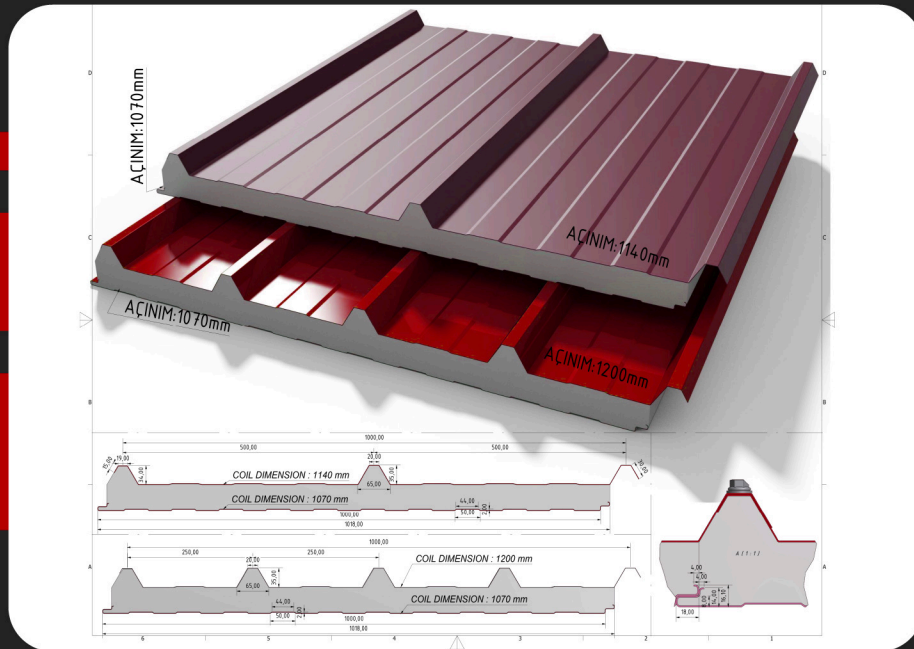
The panels are wrapped with protective plastic and stacked in an organized manner, ready for storage or shipping, ensuring protection against scratches and damage during transport



ROOF SANDWICH PANEL



Roof sandwich panels are designed for industrial and commercial roofing applications. They offer excellent waterproofing, thermal insulation, and mechanical strength while allowing fast installation.

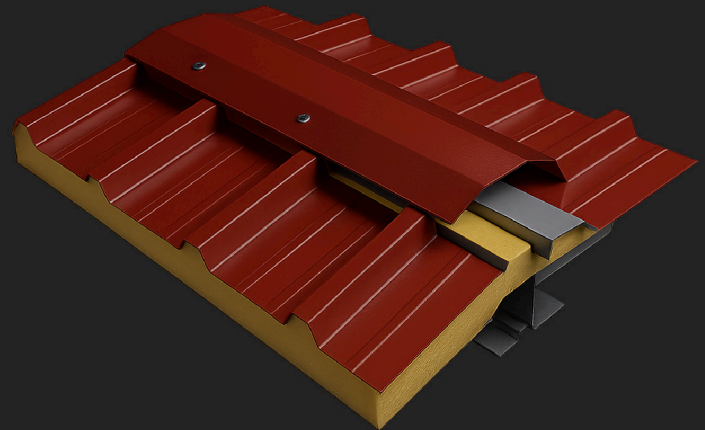


STRUCTURE

Top Sheet, Pre-Painted Galvanized Steel (PPGI)
— Corrugated Profile

Core, PUR (Polyurethane), a high-performance
foam material used as the insulation core

Bottom Sheet, Flat or slightly profiled steel



COMMON USES:



Industrial Warehouses



Cold Storage Roofs



Poultry Farms



Commercial Buildings

KEY FEATURES:

High thermal insulation

Waterproof and weather-resistant

Long lifespan

WALL SANDWICH PANELS

STRUCTURE

Outer Sheet: Pre-Painted Galvanized Steel (PPGI) — Smooth or Ribbed Profile

Core, PUR (Polyurethane), a high-performance foam material used as the insulation core inside sandwich panels.

Bottom Sheet, Flat or slightly profiled steel

KEY FEATURES:



Superior thermal insulation



Easy and fast installation



Excellent fire resistance options



Variety of colors and finishes

COMMON USES:



Industrial Building Walls



Warehouses



Agricultural Farm Sheds



Commercial Office Walls

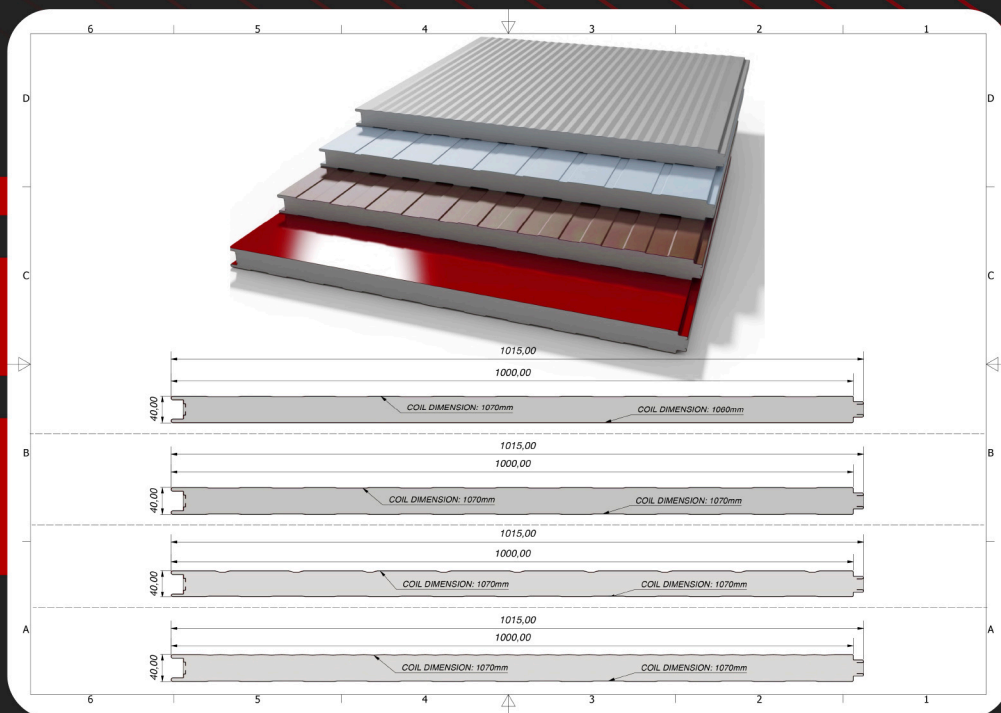
FLAT WALL SANDWICH PANELS



Flat wall sandwich panels are specially designed for modern industrial and commercial buildings where a smooth, elegant appearance is required. They provide excellent thermal insulation, fast installation, and an aesthetically clean facade.

Flat Wall Sandwich Panels

Flat wall sandwich panels are specially designed for modern industrial and commercial buildings where a smooth, elegant appearance is required. They provide excellent thermal insulation, fast installation, and an aesthetically clean facade.



STRUCTURE

OUTER SHEETS:

Pre-Painted Galvanized Steel (PPGI) — Completely Flat

CORE:

Core, PUR PUR)Polyurethane(, a high-performance foam material used as the insulation core inside sandwich panels.

INNER SHEET:

Pre-Painted Galvanized Steel — Flat Finish

FLAT WALL SANDWICH PANELS

KEY FEATURES:

- Completely flat and elegant surface finish
- High thermal insulation efficiency
- Fast and easy installation
- Excellent weather and water
- Durable and long-lasting material
- Suitable for modern architectural designs

COMMON USES



Industrial Building Walls



Commercial Building Facades



Cold Storage Facilities



Clean Rooms and Laboratories

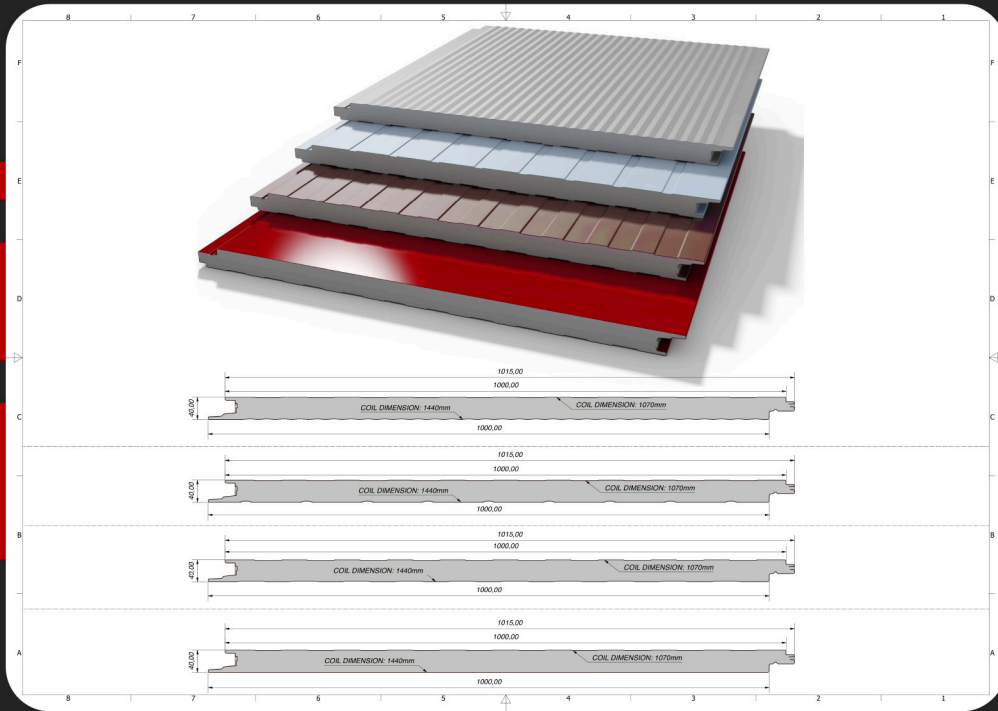


Prefabricated Office Walls

SECRET FIX WALL PANELS



Secret Fix sandwich panels offer a smooth, modern appearance with no visible screws or fasteners. They are ideal for high-end industrial and commercial building facades.



STRUCTURE

OUTER SHEETS:

Pre-Painted Galvanized Steel (PPGI) — Smooth or Lightly

CORE:

PUR PUR)Polyurethane(, a high-performance foam material used as the insulation core inside sandwich panels





INNER SHEET :

Pre-Painted Galvanized Steel (Flat Finish)

KEY FEATURES :

- Completely hidden fixing system
- Sleek modern finish
- High water and air tightness
- Enhanced thermal and fire resistance
- Elegant, clean aesthetics

COMMON USES

-  Commercial Buildings
-  Showrooms
-  Office Walls
-  Premium Prefabricated Units

SANDWICH PANELS APPLICATIONS

CLEAN STORAGE FACILITIES

Specialized panels for temperature-controlled environments.



INDUSTRIAL WAREHOUSES

Durable roofing and wall panels for factories and storage buildings.



POULTRY AND LIVESTOCK FARMS

Insulated and hygienic spaces for animal farming.



COMMERCIAL BUILDINGS (CARVANS)

Fast-construction offices, cabins, and modular houses.



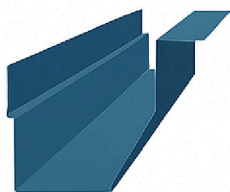
SANDWICH PANELS ACCESSORIES



Profile



Ridge



Eave Gutter



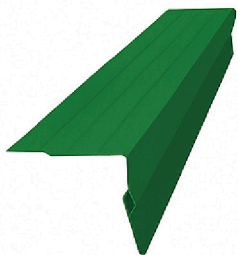
End Trim



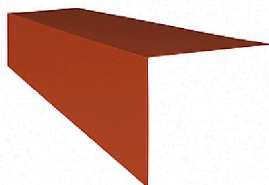
U-PROFILE



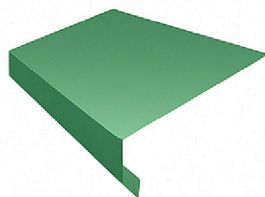
FASCIA TRIM



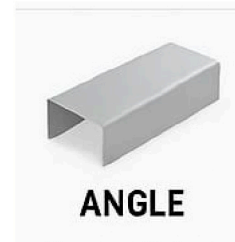
Gable End
Flashing



Corner Flashing



Eave End Flashing



ANGLE



oppo

injaz
site facilities
contracting

HASSAN ALLAM
CONSTRUCTION



الدقهلية للدواجن
DakahliaPoultry



SECO SALT
SALT FOR LIFE



Egyptian Weavers
Hesni



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