

Sandwich Panel

شركة المشغولات والمباني المعدنية المحدودة
Steel Building & Structure Co. Ltd.



SBSCO Industrial Services

سبسكو للخدمات الصناعية





Material Specification For Sandwich & Single Skin Panels

SBSCO supply Sandwich panels & Single Skin for Roof & Wall sheeting in two different base metals i.e Steel and Aluminum.

Steel Panels

Steel Panels are available in nominal skin thickness of 0.5mm & 0.7mm in Zincalume & Galvanized primer coating.

Zincalume steel panels confirm to ASTM A 792M GRADE345B. This panels are coated with corrosion resistant Zinc-Aluminum alloy metallic coating AZM150 through a continuous hot-dip process.

Galvanized steel panels confirms to ASTM A653M Grade B (LFQ) with metallic coating Z275 (G90) through a continuous hot-dip process.

Steel base metal is used for single skin panels and for outer & inner skin of sandwich panels.

Aluminum Panels

Aluminum panel confirms to ASTM B 209M ALLOY 3003/3105(H26) and is available in nominal thickness of 0.5mm & 0.7mm.

Finish Coating of panels

SBSCO standard pre-painted panel is a Modified polyester/polymer coated over Zincalume or Galvanized steel & Aluminum substrate. Nominal thickness of finish coating is 25 microns of high durability modified polyester polymer appl on the exterior (weather) face and 5-7 microns of plain polyester applied on the interior face

Panels with modified polyester polymer finish are stocked in all SBSCO standard colors

SBSCO also offers high performance Polyvinylidene Fluoride dewell-known as PVF2 (equivalent to Kynar 500) coating appli over Zincalume or Galvanized steel. It is a Pre-Painted panel with nominal finish thickness 25 microns of Polyvinylidene Floride on the exterior (weather) face and 5-7 microns of plain polyester on the interior face.

This paint system provides more protection to the panel in terms of longer life and long-term color and gloss finish durability

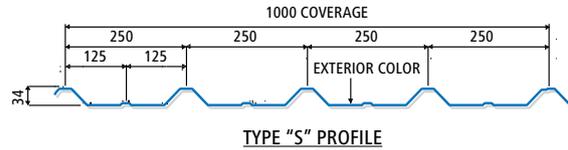
Panel Profiles

Single Skin Roof and Wall panels

Type-S1" single skin profile in steel and aluminum is" SBSCO standard roof panel.It is also used as wall panel. "Type-S1" is a superior structural panel whose profile is designed to with stand heavy loads, such as roof snow load and uplift loads resulting from high velocity (cyclonic) winds

Sandwich Panels

SBSCO sandwich panel is a composite panel consisting of two skins and a polyurethane foam core

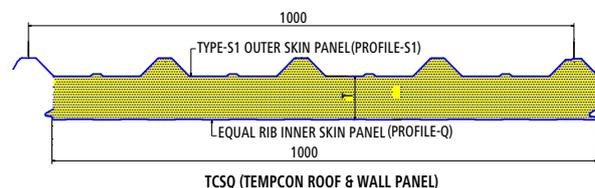


The exposed outer skin is roll formed from steel or aluminum coils and the inner skin is made up of the same material as outer skin in addition to an "Aluminum foil" option.

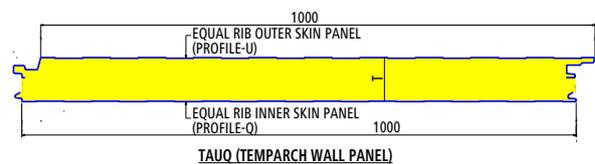
Polyurethane core consists of sprayed polyurethane foam (PUR) or the fire rated polyisocyanurate foam (PIR) with density of 38 - 40KG/m³. Polyurethane foam has a thermal conductivity of K=0.022KW/m²K measured at 25°C

Sandwich panels are available in two different types:

- 1) Tempcon sandwich panels (TCSQ) that are produced using rigid polyurethane foam core with external and internal sheet in steel or aluminum and profile of outer skin is Type-S1 & profile of inner skin is Type-Q. TCSQ panels are suitable for roof and wall of all building applications.



- 2) Temparch Sandwich panels (TA) are aesthetic wall panels also produced using rigid polyurethane foam core with external and internal sheet in steel or aluminum. Temparch sandwich panels have a unique detail to conceal fasteners and are therefore more suitable for walls & interior partition in showrooms, hypermarkets, shopping malls and commercial buildings



Moreover, panels can be specially ordered based on customer specifications & requirements to meet a wide range of base metal specifications,coating finish,color and thickness

Consult our sales dept. for complete information on price and delivery period.



Flashing ,Trims & Accessories for Roof & Walls:

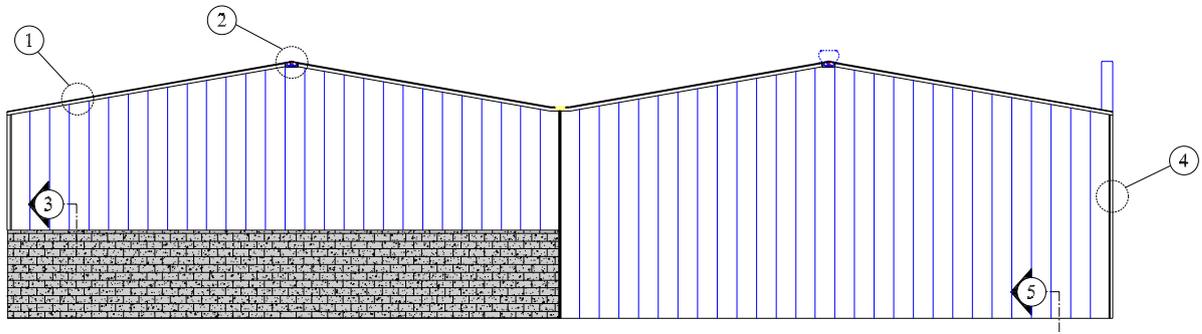
Flashing & Trims are sheet metal closures designed primarily to provide weather tightness and neat appearance at corners and junctions of the buildings.

We supply appropriate flashing & trims as per the building requirements. Flashing, trims and other accessories are produced using same materials as used for roof & wall sheetin

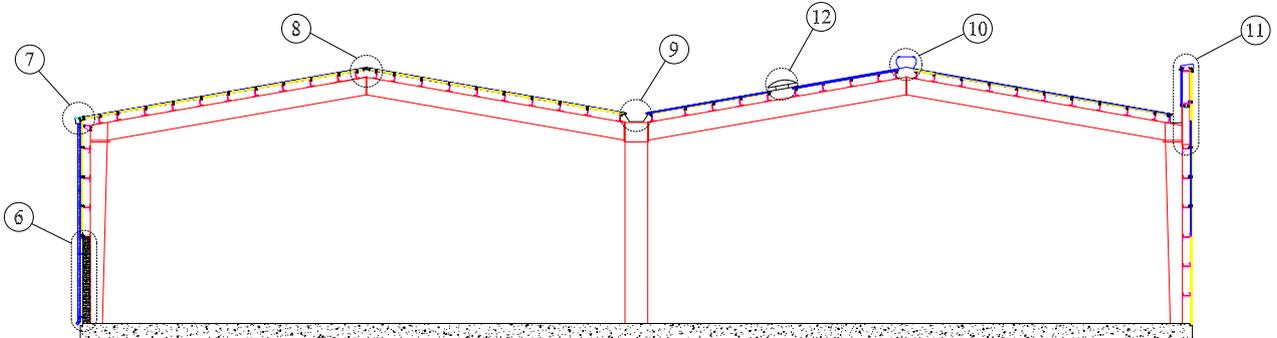
We also supply Eave gutters, downspouts, curved eaves, ridge panels and other related accessories which contribute to the function, tightness & completeness of the building and enhance the overall appearance of the building.

SBSCO standard flashings, trims and accessories at .Roof & Walls are shown in the below drawings

Moreover SBSCO can supply any type of flashing/trims .to suit any desired requirement of the customer

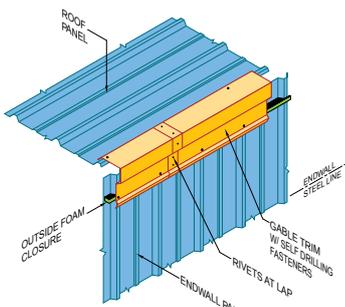


ENDWALL ELEVATION

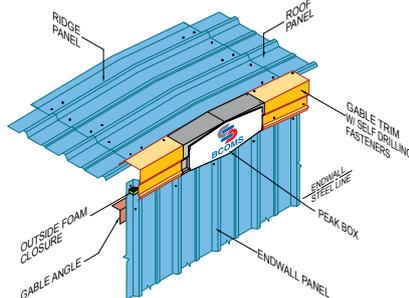


CROSS-SECTION

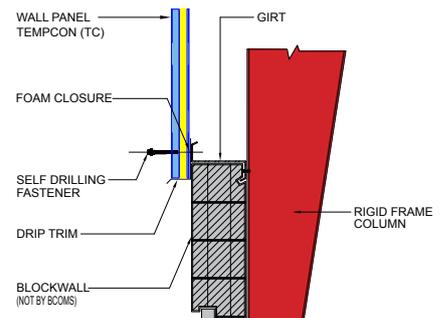
TYPICAL FLASHING AND TRIMS AND ACCESSORIES AT ROOF AND WALLS



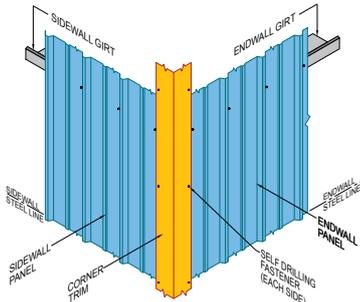
Detail-1: Eave Trim



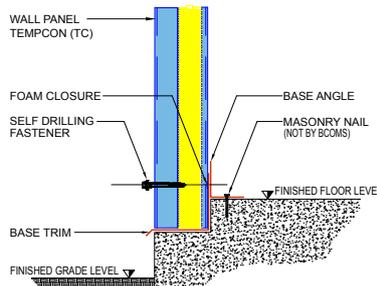
Detail-2: Gable Trim



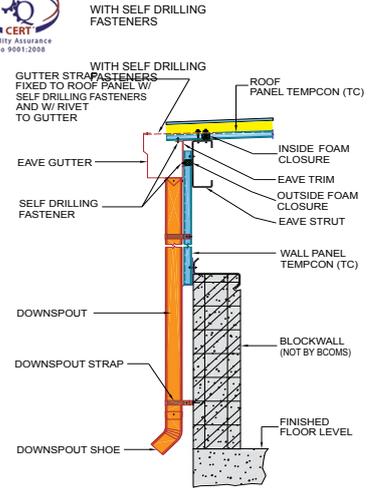
Detail-3: Drip Trim



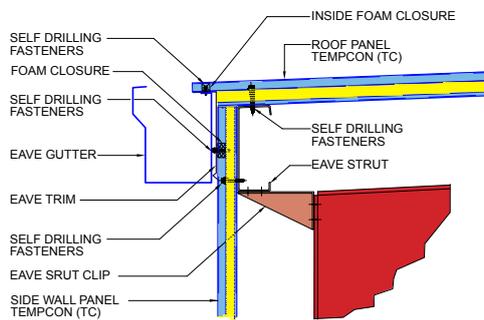
Detail-4: Corner Trim



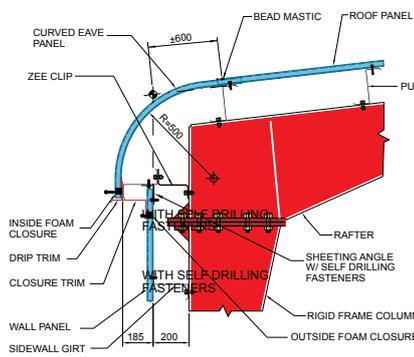
Detail-5: Base Trim



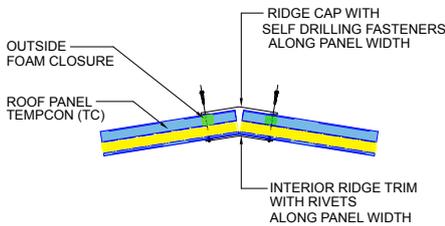
Detail-6: Downspout



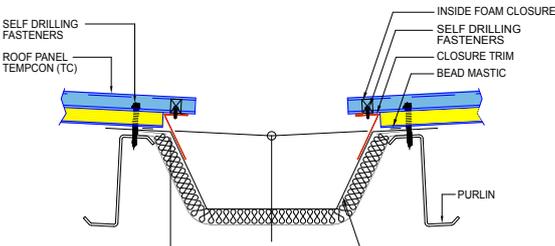
Detail-7: Eave Gutter



Detail-7: Curved Eave (Optional)

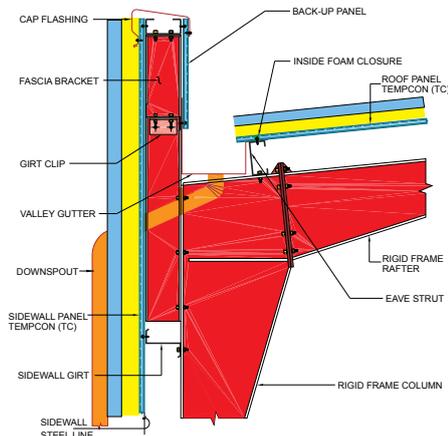


Detail-8: Ridg Cap & Ridge Trim

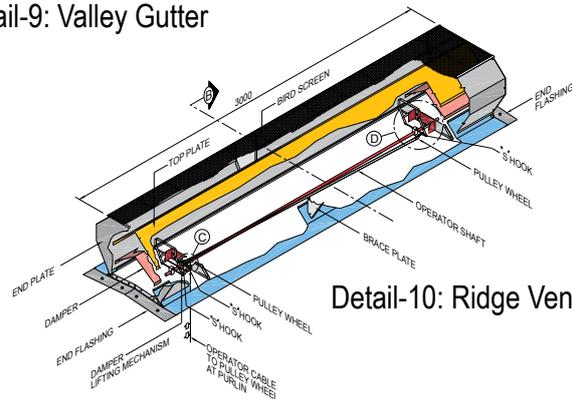


SECTION-8 : TEMPCON (TC) ROOF PANEL AT VALLEY GUTTER

Detail-9: Valley Gutter

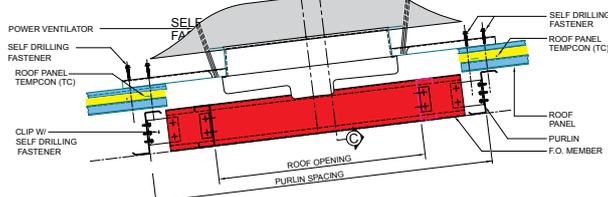


Detail-11: Parapet Fascia



Detail-10: Ridge Ventilator

DETAIL : SINGLE 300 mm RIDGE VENTILATOR WITH DAMPER



Detail-12: Power Ventilator

SECTION-D

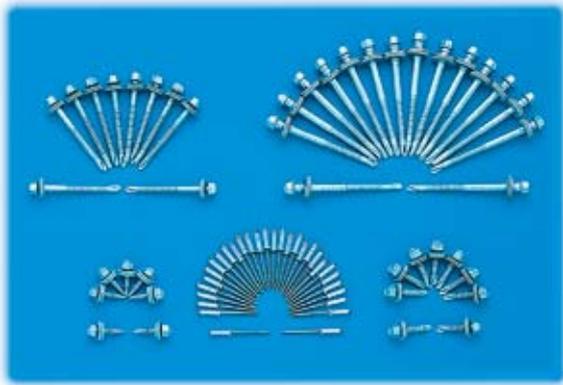


Sundry Items:

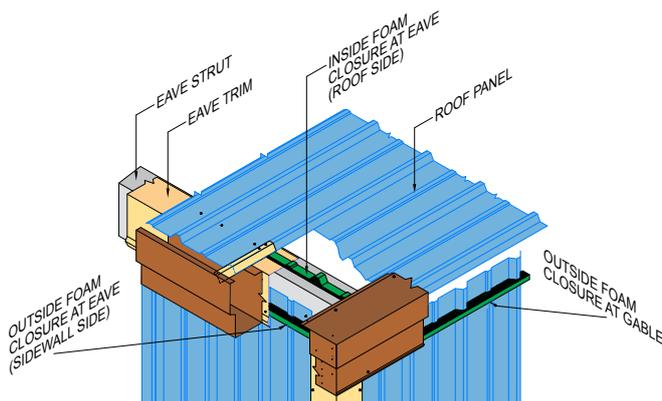
Below mentioned sundry Items forms a basic part of our scope of supply & are supplied along with sheeting materials.

Fasteners: Standard Carbon steel screws with washers as per the requirement are supplied along with sheeting.

Pop Rivets: Standard pop rivets for joining light gauge trims and flashings.



Foam Closure: Foam closures are standard supplied sundry parts for weather tight sealing between panels and trims at the eave, gable, base, canopy, ridge as well as above blockwall areas. The type of foam closure supplied depends on the panel profile supplied.

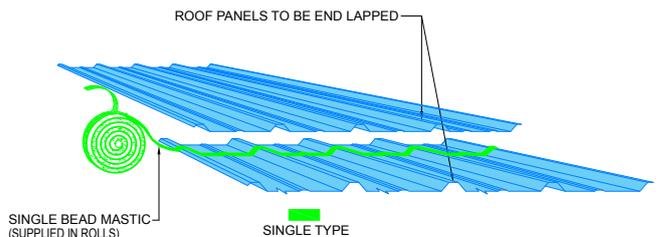


Foam closure are made of rigid polyethylene foam that has very high resistance to ultraviolet rays, can withstand harsh environments and resists some aggressive chemical attacks

Bead Mastic: It is a high performance tacky elastic butyl tape with silicone release paper designed to bond panels and valley gutter. It is engineered to withstand extreme roof temperature while offering low temperature compressibility and resistance to cold flow.

Flowable Mastic: It is a high performance solvent release pigmented acrylic compound sealant ideal for sealing critical laps in gutters, downspouts etc. It remains ductile in the presence of ultraviolet and infrared radiation, making it an excellent general purpose sealant.

We maintain a steady & up-to-date stock of all these items to ensure immediate delivery.





شركة المشغولات والمباني المعدنية المحدودة
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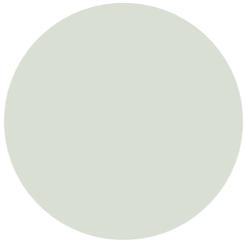
+966 13 832 3388 +966 13 832 9933 alabuo@alabuo.co www.alabuo.co



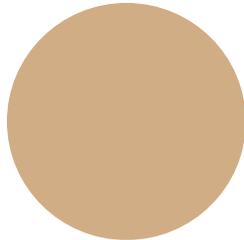
Panel Colors

Panels are available in SBSCO standard colors as listed herein. We maintain a steady stock of all the standard color materials and it can be supplied within a very short delivery period

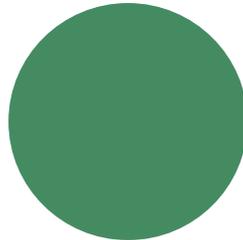
Moreover SBSCO can supply panels in any RAL color as per requirement of the customer. Consult our sales dept. for complete information on price and delivery period.



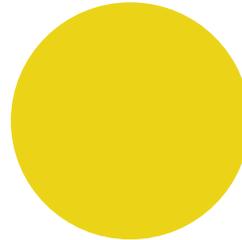
Frost White



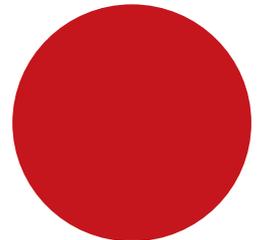
Arabian Beige



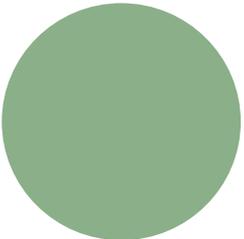
Leaf Green



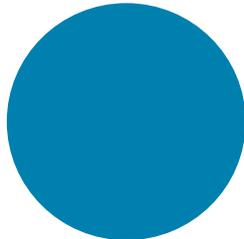
Daisy Yellow



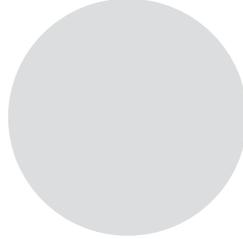
Flame Red



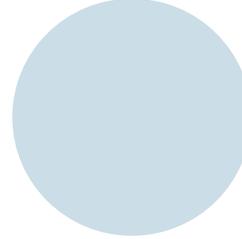
Cactus Green



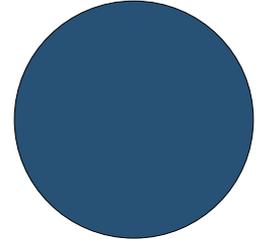
Royal Blue



Silver Metallic



Grey Blue Metallic



Shasta Blue

ALABUO GROUP



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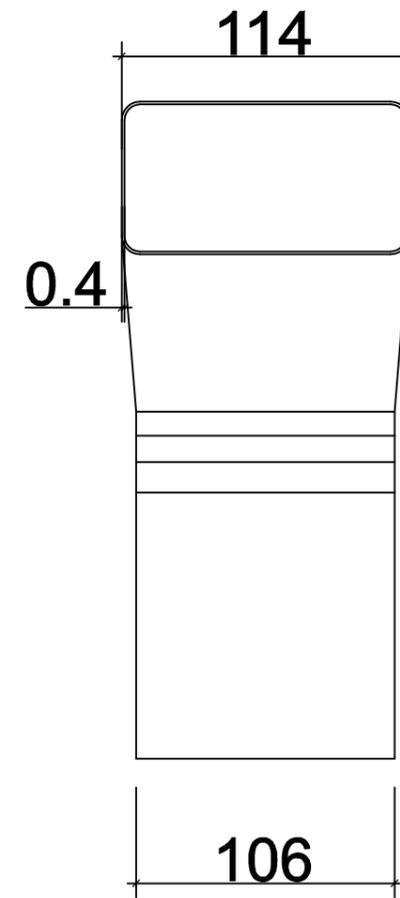
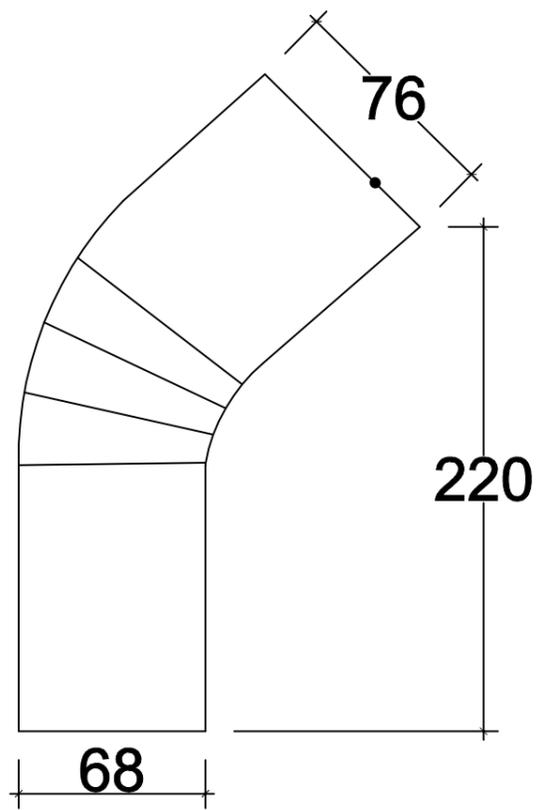
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Checked : ABDULKAFI H.AL-ABOU - GM
 Approved : Q.C.
 SCALE : 1/1 Date :
 Notes :
 1-ALL DIMENSION ARE IN MILLIMETER

DSB No
 Customer DWG. No. : Non

Important General Informator

- 1.1
- 1.2
- 1.3
- 1.4
- 2.1
- 2.2
- 2.3
- 2.4

