



Technical Supplies & Services Co. LLC.



SEAMLESS ROOFING SYSTEM

TSSC's Seamless Roofing System caters to the advanced roofing needs of the Middle East region. It offers a cost-effective construction solution with numerous benefits and allows the contractor to tailor the shape and dimensions of panels according to the buildings and create harmonious transitions between roof and facade.

TSSC's Seamless Roofing system eliminates the problems related to leakage and durability that arises with the use of conventional roofing systems. The seamless roofing system uses roll formed panels that are attached to the structural substrate using concealed method, enabling its use on many applications from low pitched roofs to vertical or horizontal ribbed walling.

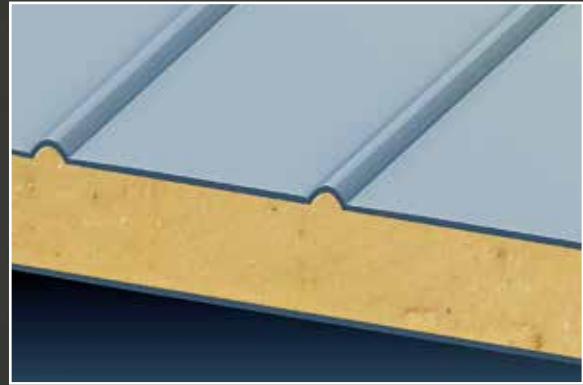
TSSC Seamless Roofing system uses specially designed aluminum extruded seam clips. The adjacent seams of the sheets are overlapped over the aluminum extruded clips and closed with an electrically operated seaming machine. This special design feature of the seam clips allows for the expansion movements of the TSSC Seamless Roofing panels. This method creates a structurally sound roof construction that provides excellent resistance to wind uplift. Fixing clips effectively secures roof panel to supports without puncturing the sheet. No exposed fasteners mean clean and smooth lines.

Renowned for their outstanding aesthetic properties and performance characteristics, TSSC's Seamless Roofing System offers the contractor a cost-effective construction solution with numerous benefits and are a popular choice for new construction, retrofit applications and expansions to existing buildings.



TSSC Seamless Roofing panels are also available as insulated composite panels, to make the system energy efficient. Reducing energy loss will not only lower running costs and CO2 emissions but will also reduce the actual cost of the building itself by scaling down the size of refrigeration and air handling plants.

The Seamless Roofing does not use any sealants and also allows the trapped moisture to escape through the seam. Non hygroscopic insulation materials such as mineral wool will not absorb any moisture in the roof but will retain the same on the surface of its fibers. During the day time, the temperature rises and the trapped moisture is transformed to vapor, which results in overpressure that is released through the seams. The overpressure happens only within the roof construction and this ensures that the flow of the vapor is always from the inside to the outside.



Characteristics

- Completely watertight
- Long life
- Provides easy access
- Walkable roof
- Joining using locking system
- Eliminates damaging effects of thermal movement
- Economical and maintenance free
- Quick installation
- Provides design flexibility
- Resistance to wind uplift
- Fire resistant



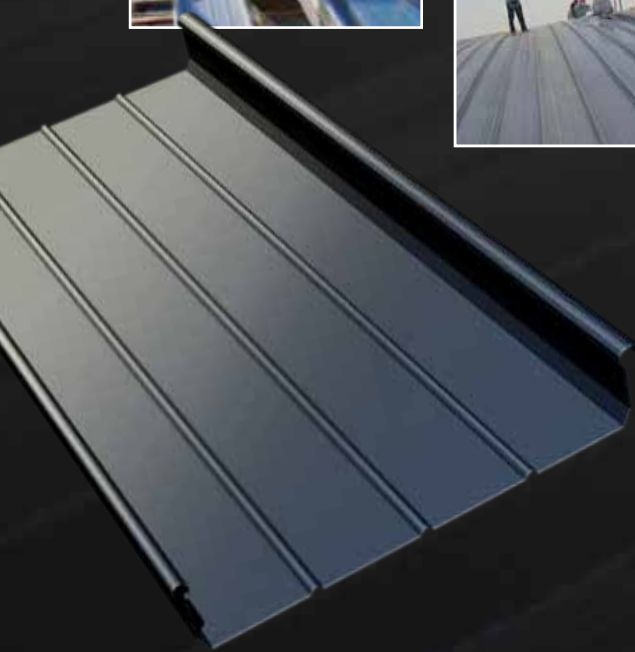
Production Methods

TSSC Seamless Roofing panels can be produced either in the factory or at the project site on a portable roll forming machine. With decades of experience in manufacturing TSSC provides its clients with both standard and customized methods which include:

Roll forming on the ground: Suitable for panels of great lengths. Panels are roll formed at the project site, and then lifted using beams to be placed directly onto the roof.

Air Suspended: Suitable for sites where space is not adequate on site for free movement of the roll forming. This method consists of air suspending the machine next to the roof top to be covered and the panels are roll formed directly on to the roof.

Directly on to the roof: This method is utilized where there is sufficient space for the roll forming machine to lie adjacent to the roof to be roll formed. This method caters to the sophisticated roll forming requirements.



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