

# **DryRoof System** by Tessilbrenta

## **APPLICATION AND INSTALLATION INSTRUCTIONS**

### **The condensation**

Condensation of water implies a transition of an aqueous steam into a liquid state of matter. And a reverse process of condensation is an evaporation in which the water being in the liquid state of matter transits into the gaseous state – the aqueous steam.

As a natural phenomenon of condensation we all know the rising of dew that occurs when a damp air comes into contact with a surface cooled down below the dew point. The best-known example of the water condensation is a formation of clouds and raining.

### **Condense on the tinplate roofs**

In case where the outside temperature is lower than the temperature in a room, the temperature of non-insulated plates is lower than is the temperature in the room. Thus a warm air from the room cools down when contacted with the thin plate. In this increases the relative humidity of the air along the thin plate, and if it reaches the dew point, the condense starts to eliminate. Where there is a lot of condense, soon drops are formed and they start to fall from the roof.

## **DryRoof System**

**DryRoof** is a product designed specifically to prevent problems caused by condensation in buildings and roof systems. The **DryRoof** fleece prevents dripping and keeps building contents and insulation dry.

Metal roofs do not have the same hygric buffer capacity as wood-based sheathing. **DryRoof** provides metal roofs with sufficient hygric buffer capacity to absorb, redistribute and re-release significant quantities of condensed moisture when (intermittent) condensation occurs.

No matter what measure is taken, moisture will always find its way to the roof and into the roof system. **DryRoof** will help manage that problem and prevent the adverse effects of condensation.

### **Caution**

Read and understand all instructions and precautions before applying **DryRoof** and installing **DryRoof** panels.

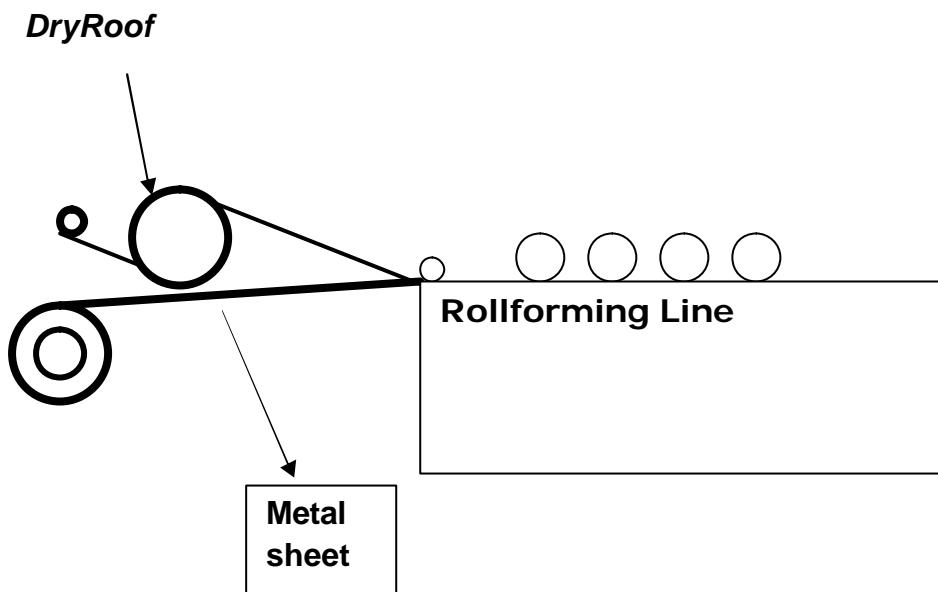
### **Storage**

Store **DryRoof** under dry conditions, covered by weather proof sheets or in a warehouse.

### **Application to metal sheet**

**DryRoof** can be applied prior to rollforming off-site by the panel manufacturer or on-site by the contractor. **DryRoof** should be applied under dry conditions. The sheet metal surface must be clean, smooth and dry before applying. Remove any oil, grease and silicones.

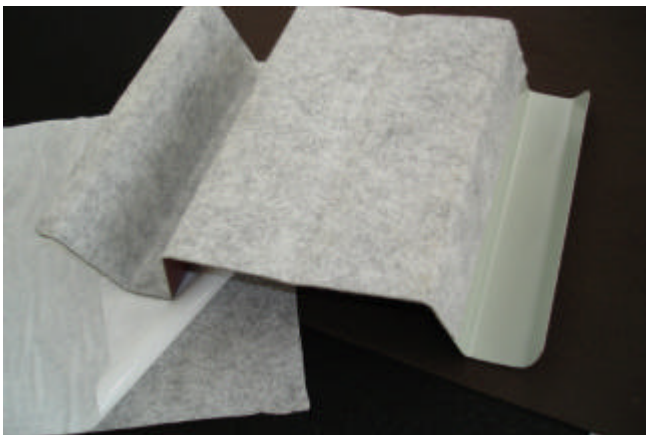
Reservations must be made to prevent moisture infiltration caused by capillary action. Reservations must be kept based on the expected lateral overlap between panels after installation.



### ***Vertical cutbacks***

In general standing seam panels will need anti-capillary cutbacks on edges to be overlapped. Industrial panels like industrial profiles need, in general, a cutback on just one side.

Making cutbacks during panel manufacturing eliminates the need for on-site resin application. Lateral reservations are made during panel production by choosing the proper **DryRoof** width .



### ***Horizontal seams***

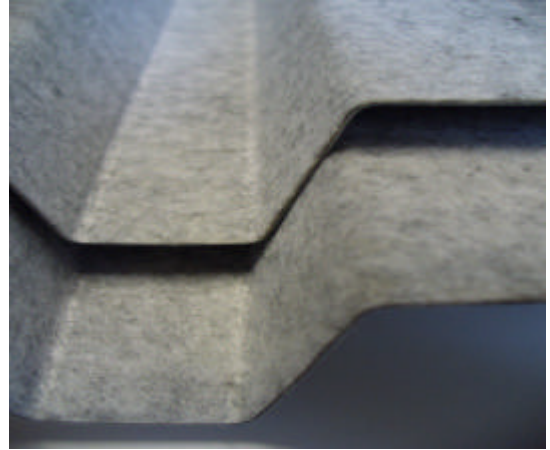
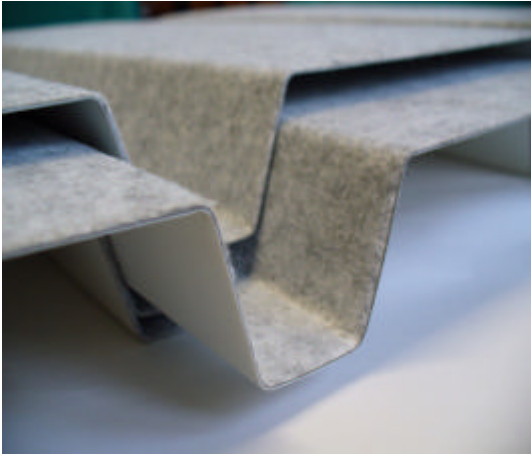
To avoid capillarity through horizontal seams proper care should be taken to seal horizontal overlaps.

Common methods to seal horizontal seams are appropriate with the exception of sealing tapes between the two panels.

In case no sealing takes place, the panels should overlap at least 8" or a cutback of at least 2" must be made where panels overlap. This reservation can be made during panel production or on-site by melting or by using a varnish or resin.

### **Handling panels with DryRoof**

After applying **DryRoof** and rollforming the panels it is important to avoid rubbing of the panels against each other and the roof structure. Panels can be bundled for storage or transportation as suggested.



### **Installing DryRoof roof panels**

To ensure proper functioning, **DryRoof** should not be used in climate zones or in buildings where relative humidity approaches saturation for extended periods.

### **Building components**

Components like ridge caps, interior gutters and other parts that are prone to cause condensation problems can be covered with **DryRoof** too. Application can be done by the manufacturer or contractor.

### **Cleaning**

For best results, special precautions should be taken when cleaning and disinfecting **DryRoof** panels.

The use of soft bristle brush is recommended. It is not recommended to use hard brushes as these may damage the fleece. When cleaning or disinfecting with fluids, a low pressure spray-on method must be used.

Always use the services of a professional cleaning company and always test their method and agents on a small surface first before continuing.

**DryRoof System** is another idea by Tessilbrenta.



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