

# MECHANICAL FASTENERS

*Wind-Devil 2*

## 1-Descriptions

The **mechanical fasteners** are used to attach the insulation panels onto the external wall surfaces using a fastener that is appropriate to the type of substrate and a plastic washer

**Mechanical fasteners** can attach insulation panels to any substrate, either metal, wood, masonry or cement. They are especially useful when surfaces do not lend themselves to adhesive fasteners and that the preparation of the area for using adhesive fasteners is not appropriate.

- Plastic washers do not corrode and are not good heat conductors.
- **Mechanical fasteners** can be installed, regardless of the temperature.
- You can proceed immediately with implementation of the base coat layer when using plastic washers

## 2-Surface preparation

- The substance surface must be joined at close to 1/4" for each 10 feet in length.
- For concrete and masonry surfaces, polish the surface and fill the gaps with appropriate coating.
- For studs and covering, ensure that the liner is properly fixed to the studs.
- Attach the mesh at the locations of all edge points to form an envelope.

## 3-Execution

When using the **mechanical fasteners**, use a **Mod-Bit membrane** (Modified Bituminous Membrane), a **Supremea Supreaseal 1100 T membrane** or equivalent **Bakor Blue Skin**, etc. since they are self-sealing and seal the perimeter of the **mechanical fasteners**.

There are two installation methods insulation panels both with **mechanical fasteners**:

### - One-step procedure:

With a self-drilling screw that works well in the coating and studs to be screwed. First, insert the fastener into the washer and secure the screw/washer assembly onto the screw gun. The screw gun is then used to drill the hole and fasten the attachment in one step.

### - Two-step procedure:

When different drilling and screw clamping devices are used. This method is used on masonry, concrete and other hard substrates. First, use a drill to make a hole through the insulating panel and the substrate. Then insert the screw/washer assembly into the hole and tighten using a tool.

## 4-Remarks

- The outer face of the head of the fastener must be flush with the outside face of the polystyrene panel. To do this, use a depth buffer.
- The fasteners must be inserted into a structural material, aligned with the uprights and well-placed taking into account the insulation panel.
- With the method, install approximately half of the required fasteners to attach the insulation. Use the rest of the fasteners to attach the reinforcing mesh.
- For more information on the placement of fasteners, see the method specifications.

