

Proposed scope of work for INSUWRAP PVC Waterproofing System for Exposed Roofs

Mechanical Fixation on corrugated metal deck

1. Surface Preparation:

Clean the top of metal surface, remove all the loose particles and sharp edges to be ready to receive the roofing system.

2. Thermal Insulation or Plywood:

Using proper types of washers & screws, a working flat surface should be mechanically fixed to the metal deck. The working surface can be either 50mm thick. extruded thermal insulation or 9mm thick plywood.

3. Separation layer:

Apply minimum 100 micron thick polyethylene sheet with 100mm overlap of the joints.

4. Waterproofing membrane – Installation:

4-1. Horizontal Application:

Apply one layer of Insuwrap PVC waterproofing membrane, 1.50mm thick. reinforced with polyester mesh & ultra violet resistant (1500 WMR-UV). This membrane will be fixed by means of mechanical fixation using aluminum or GI metal strips (30mm wide). These strips will be fixed by mechanical fasteners at 40cm spacing

on top of the overlapping joints. Then these joints are welded by hot air welding machine and the overlapping will be 50mm minimum.

Special metal screws and washers with spacing 300mm on the overlaps can be used instead of holding metal screws.

4-2: Vertical Application:

To supply and install Insuwrap PVC 1500 WMR-UV (1.50 mm thickness) membrane reinforced with high tenacity polyester mesh, ultra violet resistant. This membrane will be fully adhered by Insurbond 106 to parapet wall up to 30cm height and the bottom portion of this membrane will be properly dressed to the gutter & drains

PVC coated metal angles will be fixed on the junctions of horizontal membrane and gutter. A double layer of the membrane will be welded by hot air welding on that angle.

5. Aluminum Flashing:

Install aluminum flashing with one bend at the top edge of the PVC membranes. The flashing will be fixed with fasteners, then the bend is filled with sealant.