



Subject: The DURUS System Pat. Pend. Trays

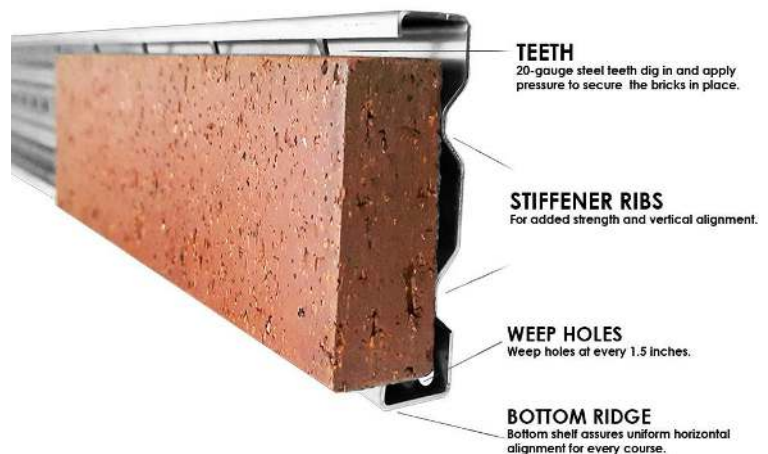
The patent pending stainless steel trays mark a new era of performance in brick trays. 20-gauge 304B stainless steel eliminates any concerns regarding corrosion or rust. Drainage holes are uniform across the backside lower edge assuring all incidental moisture can easily escape and run down the back of the trays and through the cavity. Stiffener ribs reinforce the structural strength of the tray and serve as guides to assure vertical alignment. Brick will set along the uniform bottom edge of the tray to keep the horizontal alignment uniform. The spacing between each tray can be adjusted if necessary to help align with rough openings in the wall.

Trays are available in 304B Stainless Steel and G90 Galvanized

- **Stainless Steel** - 20 gauge, 304B, Modular Stainless Steel, cold roll formed, smooth steel, pre-punched shapes, in 8' lengths.
- **Galvanized** - 20-gauge, Grade 50, G90 galvanized, cold roll formed, pre-punched shapes in 8' lengths.

Trays are produced to simulate the brick/mortar module with a mortar joint of 7/16". The production of trays is within normal plus/minus tolerances for roll formed metals and can vary from batch to batch. Installers should take care to be sure that each tray is tightly aligned with the adjoining trays. Trays are generally eight feet in length. Custom lengths can be available if requested and if volumes will allow. To help align trays with rough openings in the wall the spacing between trays can be opened by a sixteenth and up to one eighth inch (1/16" - 1/8") if necessary. We recommend premeasuring to be sure of the coursing before fixing of the trays.

DURUS trays from Desana Partners are galvanized according to ASTM A653 which is the specification for sheet steel, zinc coated, using the continuous hot dipped process. This is a widely used process to coat sheet steel prior to fabrication. The coating produced by continuous galvanizing is uniform, has sufficient ductility to withstand deep drawing or bending without damage to the coating, and consists almost entirely of pure zinc. In the continuous process, the steel in sheet, strip or wire form is passed through the cleaning tanks and zinc kettles at a very rapid speed. This results in a thin coating of almost pure zinc with very little intermetallic growth, deformation, or warpage, of the steel. The G90 designation for



the DURUS trays is less a specification and refers to the thickness of the zinc coating.

Galvanized DURUS trays are used with the full brick rainscreen assembly. Care is taken to allow for as much water and moisture management as possible. The environment for the system and in particular the trays is at times, wet, damp, or dry. With a typical rainscreen assembly there will be a continuous convection air flow within the cavity to keep components as dry as possible. Each tray has uniform and continuous drainage holes and fixing holes that will provide for maximum egress of moisture and water. We expect very little water or moisture to collect and remain within the trays.

As covered earlier the galvanized DURUS trays are coated using the continuous hot dipped process prior to fabrication. During fabrication trays are punched, formed, and cut to length. Trays may also be cut to fit in the field or on site. All of these processes will leave exposed edges of uncoated steel. In terms of cathodic protection offered by a galvanized coating of adequate thickness to a bare area, the two most important variables are the width of the bare area and the electrolyte that connects the galvanized coating and bare area. Due to the variability in electrolyte properties, it is hard to give exact widths of bare areas on galvanized steel that will be cathodically protected, but various studies have found in atmospheric exposure in urban environments, bare areas up to 2 millimeters in width will be completely cathodically protected. DURUS trays are made of 20ga steel, well within the estimated cathodically protected area.

Much of the above is taken from published articles by the American Galvanizers Association. It is designed to provide a level of confidence in the performance of the galvanized DURUS trays. We recognize that galvanization is a second player to the standard stainless steel. Not all projects will warrant the use of stainless or the premium for stainless. However galvanized DURUS trays can be specified and installed with confidence and surety of performance.

If there are any questions, please contact Desana Partners.



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