

# TITANIUM® UDL-50

## Commercial Grade Synthetic Roofing Underlayment

### UDL50 Installation Instructions

Titanium UDL50 is an air, water and vapor barrier. It must be installed above properly ventilated spaces (follow ALL building codes applicable to your geographical region and structure type) as it is considered a vapor barrier (.05 perms). The use of a rosin paper slip-sheet is not required underneath metal roofing systems. Protrusions from the deck area must be removed and decks shall have no voids, damaged or unsupported areas. The use of a straight edge cutting knives is recommended. UDL50 is laid out horizontally (parallel) to the eave with the printed side up, and with the 4" horizontal laps and 6" vertical laps. Follow the codes for low slope as defined as 2:12 to 4:12 and steep slope greater than 4:12 applications.

**FASTENERS:** UDL50 must be attached to the structural roof deck material using 3/8" head electro galvanized roofing nails; tin tag caps & nails; screws with washers; plastic caps with minimum 7/16" leg staples or longer nails. Anchoring to be installed at a minimum as per surface markings printed on the product, spaced 6" on center in the vertical and horizontal laps, and at 12" along the center of the roll in the field. If underlayment will be covered by primary roofing within 5 days of application, and not subject to heavy traffic or high wind, then the option to use every other printed anchoring point in the center field is acceptable.

All anchoring devices must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. For extended exposure (months) or high wind, double the lap widths as a minimum. Option: Fold the overlay laps forming a "J" channel configuration before nailing; using a compatible sealant between the laps, or using a peel and stick tape is highly recommended.

For batten secured installations, use only adequate length nails or screws to secure battens to the structural roof deck material. It is recommended to use 3/8" head electro galvanized roofing nails; plastic cap staples; plastic cap nails or screws with metal or plastic washers to secure UDL50 to prevent blow off until the batten system is installed. When using plastic cap and staples, staple leg should be a minimum 7/16" or longer. Do not install battens directly over any plastic caps. If this occurs, remove plastic cap staples or nails, patch the hole, then install cap outside batten field and continue. Where seams and joints require sealant or adhesive, use a high quality, low solvent, Asbestos free, plastic roofing cement meeting ASTM D-4586 Type 1 (Asbestos free), Federal Spec SS-153 Type 1 (Asbestos free) such as Karnak, Henry, DAP, MB, Geocel or equivalent. Acceptable alternatives are butyl rubber, urethane, and EDPM based caulk or tape sealant. Depending on roof pitch and surface conditions, blocking may be required to support materials on the roof.

UDL50 is not designed for indefinite outdoor exposure. Final roofing should be installed within 6 months.

### CAUTION - READ GOOD SAFETY PRACTICES BELOW

As with any roofing product, always follow safe roofing codes & practices (OSHA) and always use and wear fall protection devices when working on roofs. Use caution when walking or standing on Titanium UDL50 as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.



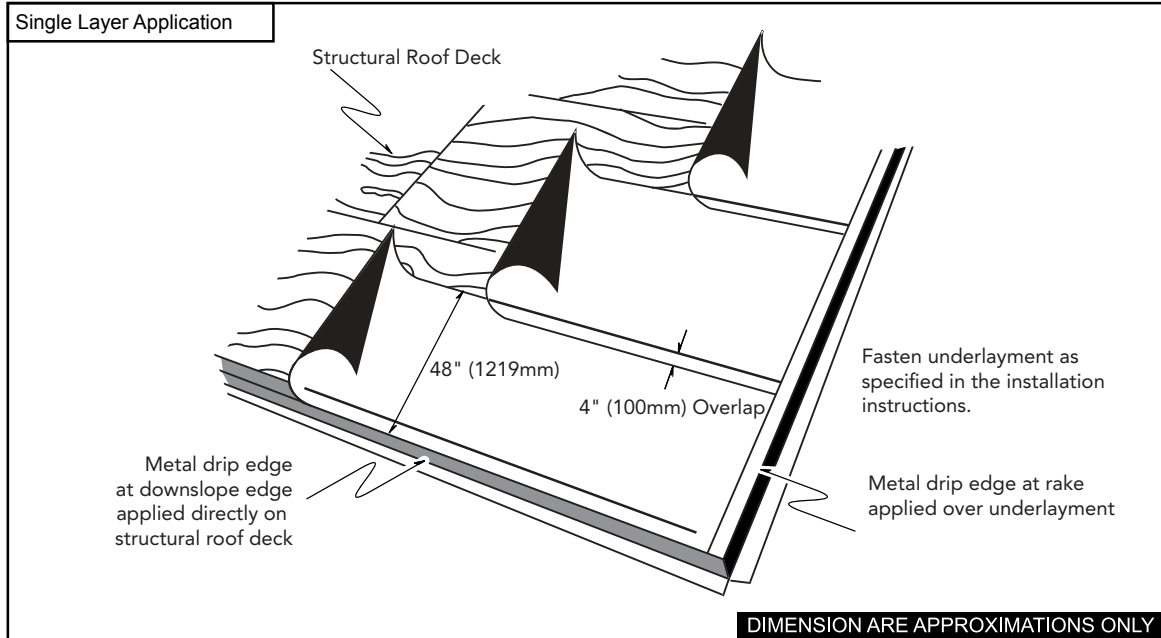
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# Titanium Application Diagram

## Single layer application of TITANIUM UDL's

For roof decks having slopes greater than 4:12, TITANIUM® UDL should be applied horizontally in shingle fashion with a 44 inch exposure and a 4 inch overlap.  
Pay special attention to high wind and wind driven rain condition application instructions.



## Double layer application of TITANIUM UDL's

For roof decks having slope of 2:12 to 4:12 a minimum of two layers of TITANIUM® UDL underlayment should be applied horizontally in shingle (water fall) fashion with a with a 23 inch exposure and a 25 inch overlap.

