

# TITANIUM® UDL 50 COMMERCIAL GRADE

## SYNTHETIC ROOFING UNDERLAYMENT

### 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 using 4" horizontal laps and 6" vertical laps. Follow building 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 plastic caps with 1" or longer roofing 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.

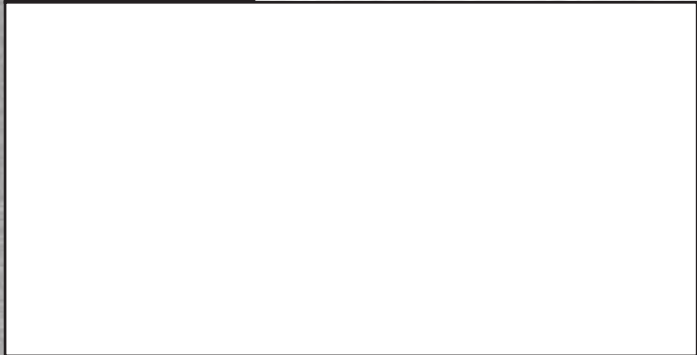
All anchoring devices must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. For extended exposure (months) or high wind, double the lap widths as a minimum. Alternately: Use a compatible sealant between the laps; use a peel and stick tape between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

Distributed by:



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**PREMIUM  
LEAK PROTECTION**

**HEAVY DUTY  
COMMERCIAL GRADE**



**STRONGER LIGHTER FASTER SAFER GREENER**



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## SYNTHETIC ROOFING UNDERLAYMENT

**AIR, WATER & VAPOR BARRIER**  
**FOR USE UNDER ALL: PREMIUM METAL, TILE, CLAY,**  
**CONCRETE, SLATE, SHAKES & SHINGLES**

Titanium® UDL50 is a highly engineered, mechanically attached, commercial grade coated woven synthetic roofing underlayment for sloped roofs. UDL50 is the first product for sloped roofs to address high end primary roofing products with long life warranties such as metal, clay & concrete tiles, slate and heavy weight laminated asphalt shingles. UDL50 used in conjunction with Titanium PSU30 self adhered underlayment for ice damming and valley areas, offers the sloped roofing industry a truly revolutionary system of safety, security and simplicity... two products (UDL50 & PSU30) are ALL your premium roofing systems need.

UDL50 advanced polymers combine to deliver a unique gray synthetic roofing underlayment that can be used under all types of primary roofing materials to replace 30 lb felt. Gray technology provides for a cooler working surface during installations and up to a 6 month UV exposure. Unlike smooth surfaced underlayments, Titanium UDL50 possesses a revolutionary patented slip resistant Sure-Foot® nodular walking surface technology that allows for easier steep slope walk-ability.

UDL50 is 25 times stronger than 30 lb felt, gone are the days of blow-offs and call backs! A 10 square roll weighs only 48 lbs! This super low weight combined with 48" width and 250 ft. run length means big savings in time and labor (over 30% faster to install than felt!). Fewer laps, cuts and roll handling means you can do more jobs in less time. Inventory fewer rolls and gain an edge in productivity and profits.

UDL50 is 100% synthetic, therefore totally unaffected by water, which means it is 100% inert to mold, lays flat, will not wrinkle and you can leave your roof uncovered without the need for tarps or immediate dry-in. Unlike felts, UDL50 does not dry out, leach oils in the heat, nor does it become stiff, difficult to roll or crack in the cold.

UDL50 with its advanced composition and thicker more robust construction, is designed for commercial applications. Combining the unique features of UDL50 with a 6 month UV exposure rating means your job will stay on track through all kinds of wind and weather. Less material damage and waste during installation and fewer post-install repairs result in significant savings in time and money. UDL50 will continue to protect your high end primary roofing products long after felt has turned to dust!



weaving a better world™

Turn your next  
 roofing job into a  
**MASSIVE  
 BILLBOARD!**  
 Print your logo here



**DUAL  
 LOGO**

**Custom Printing Available!**

- 5 times lighter and 25 times stronger than 30 lb felt
- 50 year limited warranty
- Synthetic construction inert to mold growth
- Tougher, thicker, robust construction that can withstand harsh environmental conditions
- Patented Sure-Foot® slip resistant nodular walking surface and an advanced resin technology that provide superior steep slope walk-ability
- Contributes to LEED® points
- SCS certified minimum of 20% reclaimed content (100% Recyclable)
- Class A Fire ASTM E108, Meets and exceeds ASTM D226
- Meets Class 4 Hail Rating
- All temperature performance -40°F to 240°F (-40°C to 115°C)
- 6 month UV exposure rating
- Cool gray surface, doesn't expand or contract
- Dual logo custom printing available



### TITANIUM® UDL50 | SPECS

LENGTH PER ROLL:	250' / 76.2 m
WIDTH PER ROLL:	48" / 122 cm
WEIGHT PER ROLL:	48 lbs / 21.8 kg
ROLL SIZE:	10 sq / 93 m <sup>2</sup>
ROLLS PER PALLET:	25
PALLET WEIGHT:	1250 lbs / 567 kg

MIAMI-DADE COUNTY APPROVED



CLASS A  
 ASTM E108  
 ASTM D226  
 FIBERGLASS  
 SHINGLES  
 FBC #1468  
 CAN/CSA A220.1

Intertek

This product is manufactured in accordance with national standards which allow for non-critical variances in weights and measures.

### TITANIUM® UDL50 | TECHNICAL DATA

TEST & STANDARD	TITANIUM® UDL50 TYPICAL VALUE	ASTM 30 LB FELT TYPICAL VALUE
Class A Fire ASTM E108	Pass	N/A
Nail Sealability Modified ASTM D1970	Pass	N/A
Permeability ASTM E96	0.05 perms	1.75 perms
Water Transmission ASTM D4869	Pass	Pass
Tear Strength ASTM D4533	MD 55 lbs (25 kg) CD 55 lbs (25 kg)	MD 4 lbs (1.8 kg) CD 2 lbs (0.9 kg)
Tensile Strength ASTM D751	MD 178 lbs (81 kg) CD 176 lbs (80 kg)	MD 70 lbs (32 kg) CD 38 lbs (17 kg)
Burst Strength ASTM D751	300 psi (2065 kPa)	62 psi (430 kPa)
Elongation ASTM D751	MD 20 % CD 20 %	MD 2% CD 2%
Weight per Square ASTM D5261	4.7 lbs (2.13 kg)	27.5 lbs (12.5 kgs)
Minimum Thickness ASTM D1777	30 mils (0.75 mm)	60 mils (1.5 mm)

Test data is based on average taken over several production runs and should not be considered or interpreted as minimum or maximum values. Values are typical data and not limiting specifications. All values ± 10 %



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