

INSTALLATION INSTRUCTIONS

Titanium® UDL50 is an air, water and vapor barrier (.05 perms) and therefore should be installed above a properly ventilated space(s). It is recommended to follow all building codes applicable to your geographical region and structure type.

DECK PREP: All protrusions from the deck area must be removed and ensure the deck has no voids, damaged or unsupported areas. Deck surface should be free of debris, dry and moisture free.

USE: UDL50 must be covered by primary roofing within 180 days of application. UDL50 is designed for use under all primary roofing types including; Asphalt Shingles, Synthetic Shingles, Metal Roofing, Tiles, Slate, and Cedar Shakes.

APPLICATION: For slopes 4:12 and higher UDL50 is to be laid out horizontally (parallel) to the eave with the printed side up. Horizontal laps should be 4" and vertical laps should be 6" and anchored approximately 1" in from the edge. For low slope applications (less than 4:12) it is recommended to overlap 50% plus 1", for complete definition of low slope and guidelines consult authorities having jurisdiction. UDL50 product is not recommended for slopes less than 2:12. The use of a roofing hammer, hatchet hammer, pneumatic air or gas driven fastener tools is acceptable. The use of a straight edge cutting knife is recommended.

FASTENERS: If Titanium UDL50 product will be exposed for 5 days or less before primary roofing is installed UDL50 can be anchored with corrosive resistant 3/8" head x 1" ring or smooth leg roofing nails (ring shank preferred). The use of every other anchoring location printed on the product is also acceptable.

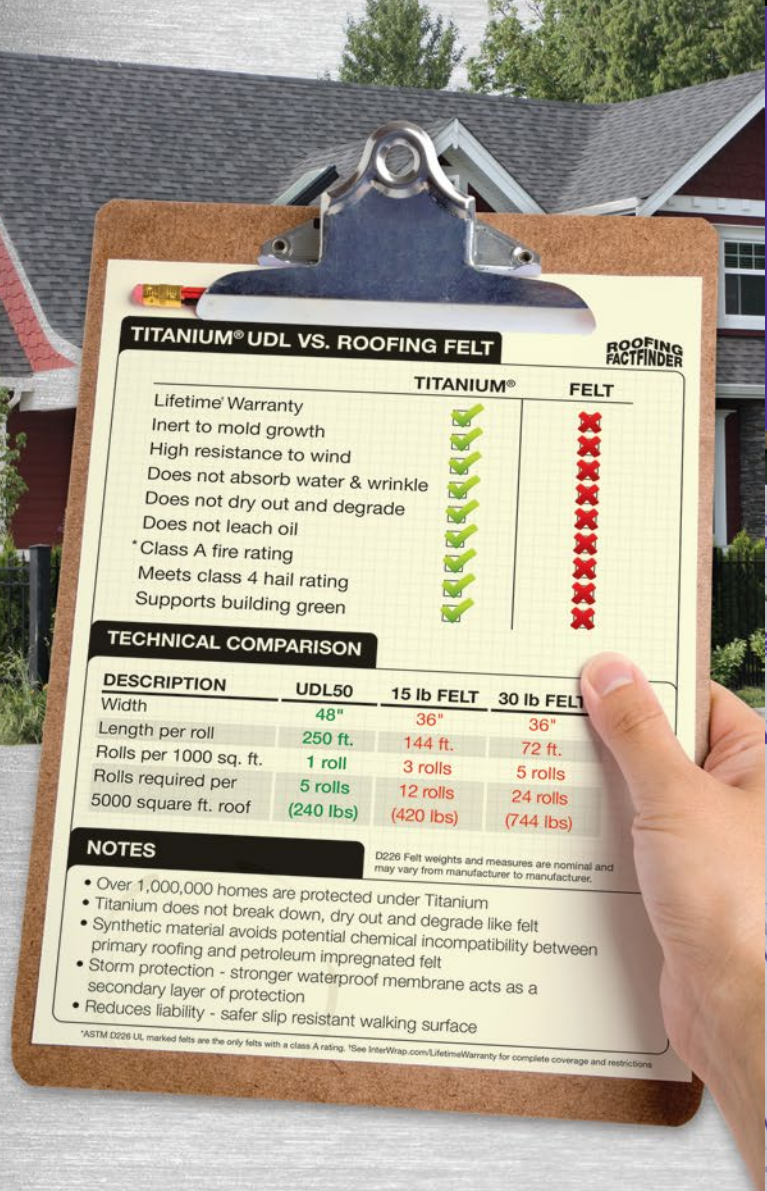
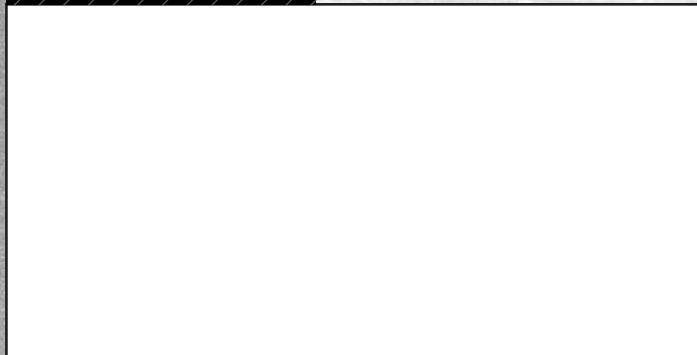
ANCHORING: All anchoring nails or staples must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. Where seams and joints require sealant or adhesive use a low solvent plastic roofing cement meeting ASTM D-4586 Type 1, or Federal Spec SS-153 Type 1 such as Karnak, Henry, DAP, MB, Geocel or equivalent. Acceptable alternatives are butyl rubber, urethane, and EDPM based caulk or tape sealant.

EXTENDED EXPOSURE: For exposure more than 5 days and up to 180 days UDL50 product can be anchored with the following fasteners in order of optimum performance in bad weather conditions; (1) 1" plastic or metal cap smooth or ring shank roofing nails, (2) Miami-Dade approved tin tags and nails with the rough edges facing up, (3) screws with washers, (4) corrosive resistant 3/8" head x 1" leg roofing nails (Ring shank preferred) or (5) plastic cap staples with minimum 7/16" leg and 1/2" crown. For extended exposure it is always recommended to anchor on every printed position on the facer. Note: UDL50 is not designed for indefinite outdoor exposure. For extended exposure conditions where driving rain or strong winds are expected it is recommended to take additional precautions such as doubling the lap widths. Alternately or in addition to a compatible sealant could be used between the laps or a peel and stick tape could be applied to the overlaps.

CAUTION - READ GOOD SAFETY PRACTICES BELOW

Good safety practices should be followed on steep slope roofs, such as use of tie-offs, toe boards, ladders and/or safety ropes and personal body harnesses. Follow OSHA guidelines. Slip resistance may vary with surface conditions from debris that accumulates, weather, footwear and roof pitch. Failure to use proper safety gear can result in serious injury. Depending on roof pitch and surface conditions, blocking may be required to support materials on the roof and is good safety practice. Remember to seal the nail holes after removing blocking.

DISTRIBUTED BY:



TITANIUM® UDL VS. ROOFING FELT

ROOFING FACTFINDER

| | TITANIUM® | FELT |
|---------------------------------|-----------|------|
| Lifetime Warranty | ✓ | ✗ |
| Inert to mold growth | ✓ | ✗ |
| High resistance to wind | ✓ | ✗ |
| Does not absorb water & wrinkle | ✓ | ✗ |
| Does not dry out and degrade | ✓ | ✗ |
| Does not leach oil | ✓ | ✗ |
| * Class A fire rating | ✓ | ✗ |
| Meets class 4 hail rating | ✓ | ✗ |
| Supports building green | ✓ | ✗ |

TECHNICAL COMPARISON

| DESCRIPTION | UDL50 | 15 lb FELT | 30 lb FELT |
|---|-------------------|--------------------|--------------------|
| Width | 48" | 36" | 36" |
| Length per roll | 250 ft. | 144 ft. | 72 ft. |
| Rolls per 1000 sq. ft. | 1 roll | 3 rolls | 5 rolls |
| Rolls required per 5000 square ft. roof | 5 rolls (240 lbs) | 12 rolls (420 lbs) | 24 rolls (744 lbs) |

NOTES

- Over 1,000,000 homes are protected under Titanium
 - Titanium does not break down, dry out and degrade like felt
 - Synthetic material avoids potential chemical incompatibility between primary roofing and petroleum impregnated felt
 - Storm protection - stronger waterproof membrane acts as a secondary layer of protection
 - Reduces liability - safer slip resistant walking surface
- D226 Felt weights and measures are nominal and may vary from manufacturer to manufacturer.
- *ASTM D226 UL marked felts are the only felts with a class A rating. *See InterWrap.com/LifetimeWarranty for complete coverage and restrictions.

TITANIUM® UDL 50

SYNTHETIC ROOFING UNDERLAYMENT

FOR USE UNDER ALL PREMIUM: METAL, TILE, SLATE, SHAKE & SHINGLE ROOFING

SUPERIOR WALKABILITY!

SURE-FOOT®

Patented Sure-Foot nodular walking surface

TITANIUM®

LIFETIME*

LIMITED WARRANTY



Over 25 Million Squares Sold!

Roofers rely on it.™



For more information about InterWrap's recycling programs go to: www.interwrap.com/recycle



*See www.InterWrap.com/LifetimeWarranty for complete coverage and restrictions

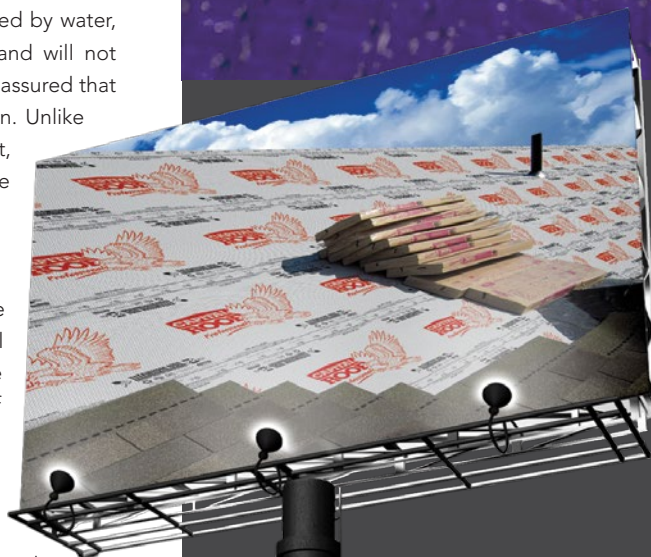
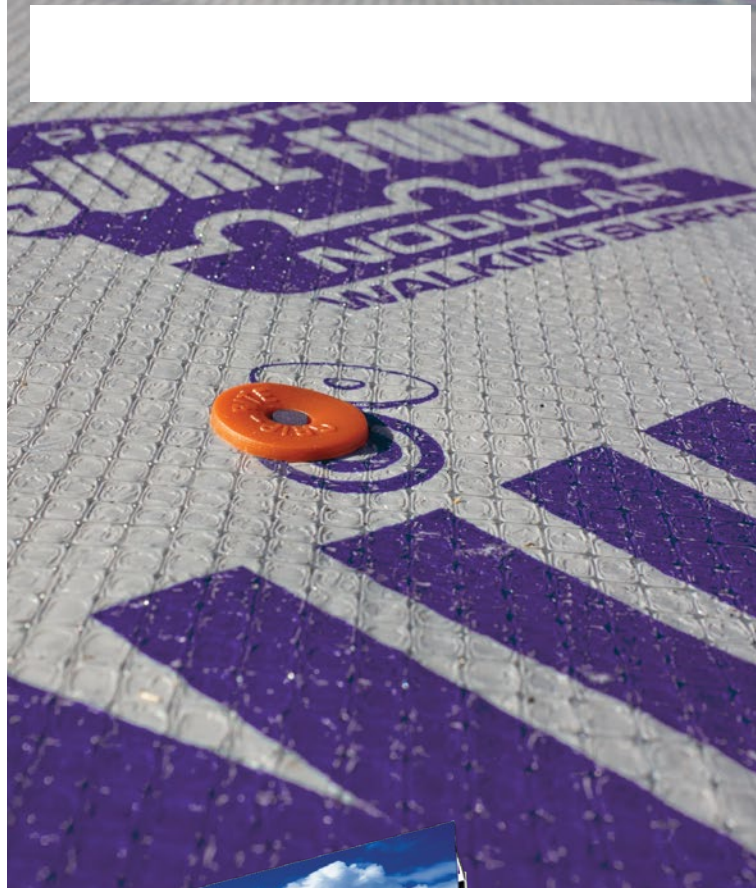
Titanium® UDL50's advanced composition and thicker more robust construction, is designed for use in long lasting **premium** roofing applications where additional exposure time and heavier foot traffic are expected. UDL50 is the first product for steep sloped roofs to address high end primary roofing products 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.

UDL50's 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 felt. Gray technology provides for a cooler working surface during installations and up to a 6 month UV exposure. Unlike smooth surfaced underlayments, UDL50 possesses a revolutionary patented slip resistant Sure-Foot® nodular walking surface technology that allows for easier steep slope walkability, even in wet conditions.

Gain an edge in productivity and profits; UDL50's light weight, 48" width and 250 ft run length allows for fewer laps, cuts and easier roll handling compared to felt. This means you can do more jobs in less time, use less labor, and inventory fewer rolls.

UDL50 is 100% synthetic, therefore totally unaffected by water, which means it is 100% inert to mold, lays flat and will not wrinkle. Stay on track, take on more jobs and sleep assured that your UDL50 projects will remain intact and dried-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 is 25 times stronger than #30 felt, gone are the days of blow-offs and call backs! Exceptional tear strength and up to 6 months exposure time allows your job to 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 cost, long life rated, primary roofing long after oil saturated felt products have turned to dust!



Turn your next roofing job into a . . .

**MASSIVE
BILLBOARD!**

Inquire today about Dual Logo printing on Titanium UDL50 Synthetic Underlayment.

- Up to 6 months UV exposure rating
- Meets and exceeds ASTM D226 Types I & II
- ICC ES Approved
- Class A Fire ASTM E108
- CAN/CSA A220.1
- Meets Class 4 Hail Rating
- Florida Building Code Approved
- Texas Department of Insurance
- 5 times lighter and 25 times stronger than #30 felt
- Contributes to LEED® points, 100% Recyclable
- All temperature performance -40°F to 240°F
- Synthetic construction inert to mold growth
- Cool gray surface, doesn't expand or contract
- Dual logo custom printing available



TITANIUM UDL50 ROLL 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 ² |
| ROLLS PER PALLET: | 27 |
| PALLET WEIGHT: | 1,351 lbs / 613 kg |

TITANIUM UDL50 TECHNICAL DATA

| TEST & STANDARD† | TITANIUM UDL50 TYPICAL VALUE | ASTM #30 FELT TYPICAL VALUE |
|-------------------------------|---|---------------------------------------|
| Class A Fire ASTM E108 | Pass | N/A |
| Nail Sealability ASTM D1970 | Pass | N/A |
| Permeability ASTM E96 | .06 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 kgs) | 27.5 lbs (12.5 kgs) |
| Minimum Thickness ASTM D1777 | 30 mils (0.75 mm) | 60 mils (1.5 mm) |

InterWrap® Roofing Products Division

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†Titanium brand products are manufactured in accordance with national standards which allow for non-critical variances in weights and measurements. Test data is based on an average taken over several production runs and should not be considered or interpreted as maximum or minimum values. Values are typical data and not limiting specifications. All values ± 10%.
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