

PRODUCT INFORMATION

LTC Quality Plus[®] D90 synthetic roofing underlayment is a Multi Layered, Polyolefin, Woven Laminated, highly flexible material. This 4 layered material works in tandem, making this specially designed roofing underlayment one of the best options available in the market.

The bottom / back of the underlayment is a specially designed and engineered layer that consists of a unique polyolefin coating directly extruded onto a woven scrim. The bottom layer is a sticky layer that has slip resistant technology to provide extra stability to the roof and reduces slippage between the roof sheathing and underlayment. The top / front face consists of a nonwoven layer with embedded dots that is laminated to the woven scrim with the help of bonding layers. The dotted top surface provides an enhanced anti slip coating for better walkability for the installer/worker. The middle layer is a high strength poly woven scrim that possesses High Tensile Strength, High Tear Resistance, and Hydrostatic Resistance to give enhanced strength and life to your roofing system.

All 4 layers of LTC Quality Plus[®] D90 have added UV stabilizers, that help the underlayment resist harsh UV exposure and provides 90 days of UV resistance. One roll of LTC Quality Plus[®] D90 offers 1000 square feet coverage and comes with pre-printed legends for easy installation. The unrolling of LTC Quality Plus[®] D90 is smooth and hassle free. The product is lighter in weight than asphalt underlayment, making it easier to handle and install.

TECHNICAL DATA

Property	Test Method	Result
Tensile Strength	ASTM D8257 & D5035	Pass
Tear Strength	ASTM D8257 & D4533	Pass
Fastener Pull – Through Resistance	ASTM D8257 & D228	Pass
Hydrostatic Resistance	ASTM D8257 & D751	Pass
Thermal Cycling	ASTM D8257	Pass
Accelerated Weathering	ASTM D8257 & D4798	Pass
Pliability	ASTM D8257	Pass
Moisture Vapor Permeance	ASTM D8257 & E96	Pass
Liquid Water Transmission	ASTM D8257 & D4869	Pass
Unrolling	ASTM D8257	Pass
Liner Dimensional Change	ASTM D8257 & D1204	Pass
Temperature Range	-	-40°F to 220°F

DIMENSIONS

Product	Roll (ft ²)	Roll Size	Rolls Per Pallet
LTC Quality Plus® D90	1000	48" x 250'	56

FEATURES

- Meets performance characteristics ASTM D8257
- 90-days exposure to UV with extreme durability & weathering
- Slip resistant technology at bottom
- Skid resistant technology at top for improved walkability
- Will not warp or split
- Lighter than standard asphalt underlayment
- Water resistant
- Mold resistant
- Temperature performance -40°F to 240°F

CODE & COMPLIANCES

- ASTM D8257 - Polymeric Roof Underlayment used in Steep Slope Roofing
- Performance characteristics: Exceeds D5035, D4533, D228, D751, D4798, E96, D4869, and D1204
- Miami-Dade County - Approved: NOA 23-0405.01
- Florida Building Code (FBC) - Approved: FL42168
- Texas Department of Insurance (TDI) - Listed: ASTM D8257



GENERAL INSTRUCTIONS

LTC Quality Plus® D90 must be applied to properly ventilated, building code-approved roof decks. Before installing, please ensure the roof deck is clean, solid, properly fastened, and free of voids and/or damage.

Begin by unrolling the underlayment from left to right, noting that the printed side should be facing up for installation. Plastic cap fasteners, with a 1" minimum length and 1" minimum cap diameter, must be used to secure LTC Quality Plus® D90 properly. To secure, follow along the indicated fastener placement lines at the top and bottom to space fasteners at 6" O.C. horizontally. Then, follow along the indicated center lines to space fasteners at 12" O.C.

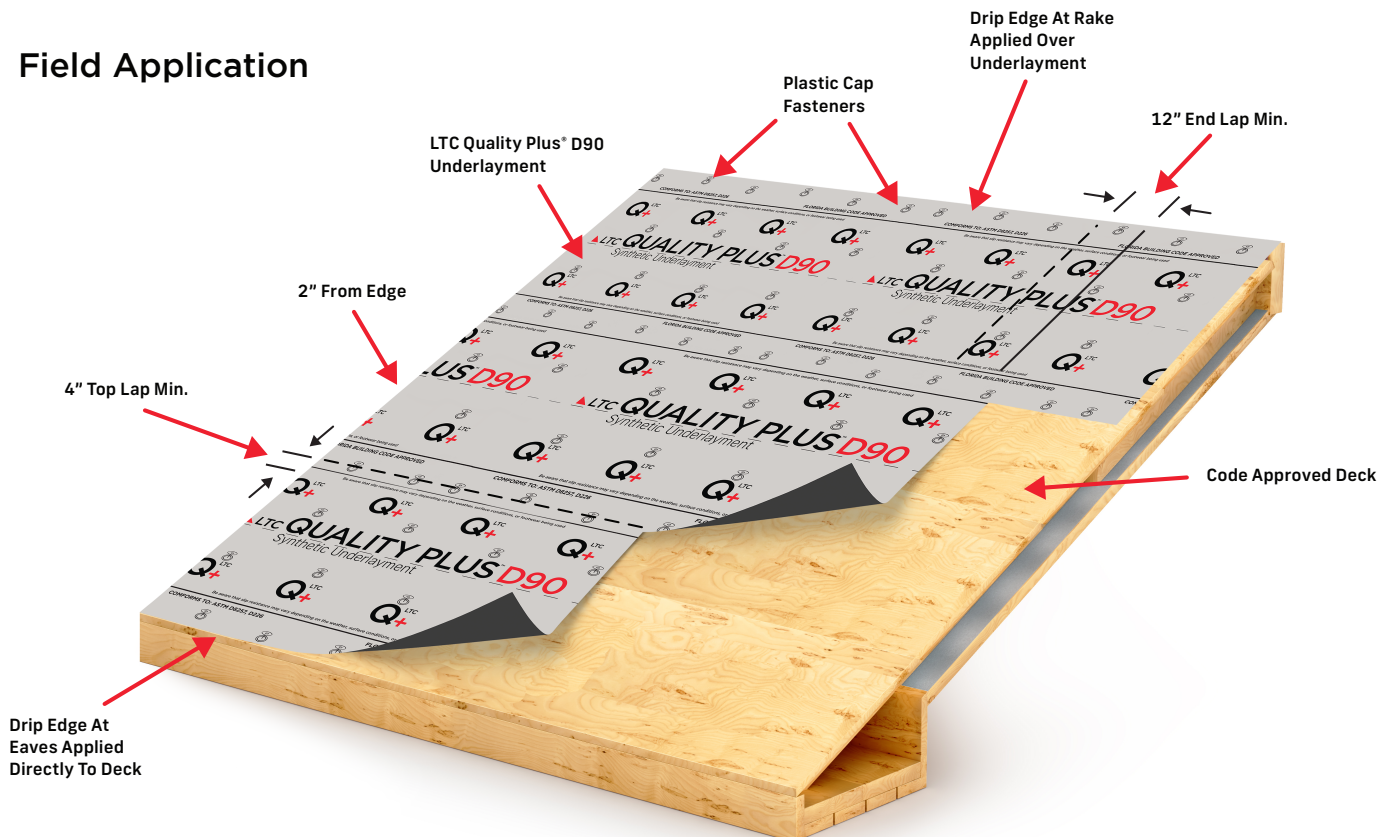
When more than one piece is required to continue a course, overlapping is necessary. The overlaps at the top and bottom should be a minimum of 4". The fasteners should be placed 2" in from the edge of the top and bottom laps. The end overlaps should be 12" minimum and fastened vertically at 12" O.C., staying 2" in from the end of the top layer.

The plastic cap fasteners should be driven tightly in the surface of LTC Quality Plus® D90, being careful not to cut into the sheet. If any damage to LTC Quality Plus® D90 occurs, it must be repaired before continuing to the next step. ASTM-approved peel-and-stick flashing tape (or equivalent) can be used to repair seams, joints, and tears. Cold-applied adhesives may be used at this point to supplement seal joints, flashings, and overlaps.

For best results, LTC Quality Plus® D90 should be extended at least 12" past all hips and valleys. If LTC Quality Plus® D90 is being installed on decks with less than 4 in 12 slopes, it should be applied in a double coverage method. Here, the overlap of each installed course should be 24", rather than the normal 4". It is acceptable to drive the fasteners through both layers to secure.

Always follow the ARMA (Asphalt Roof Manufacturing Association) recommendations for installing shingle underlayment's and flashings for best roofing practices.

Field Application



Note: If local building code or jurisdiction requires the use of metal cap fasteners in lieu of plastic cap fasteners, clear latex sealant must be added to the underside of every metal cap and nail head if the roof needs to be kept watertight during installation. Examples where complete water tightness may not be a primary concern are new construction with unfinished interiors or re-roofing applications where the final roof covering is installed immediately. Product tears, leaks, or any other product performance issues due to the use of metal/tin cap fasteners are not covered under the product warranty.

NOTICE

We do not warrant installed LTC Quality Plus® D90 to be leakproof, any more than nailed and unflashed EPDM or TPO would be considered leakproof for low slope or flat roofing. LTC Quality Plus® D90 is only the first step in the roofing process, and by itself should not be considered waterproofing. Water will be resistant through intact LTC Quality Plus® D90, but may pass around staples, and incorrectly installed roofing nails and cap nails. Water can pass under seam laps, through slits cut in LTC Quality Plus® D90, and will pass around the unflashed edges of projections and roof/wall interfaces. When using LTC Quality Plus® for reroofing, tarps should be used over unshingled areas to protect the home/building from water intrusion.

CAUTION

Learn and observe safe roofing practices according to OSHA and local building code requirements. Always use caution when walking on sloped roof decks and LTC Quality Plus® D90 underlayment. Do not walk on unsecured underlayment or any other loose roofing material lying on sloped roof decks. Dust, dew, water, or debris create unsafe conditions on the roof. The presence of any foreign matter may drastically change the coefficient of friction (traction) on LTC Quality Plus® D90 or any other material on a sloped roof deck. Failure to use proper safety equipment and footwear can result in serious injury or even death.

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