Anchor Products® U3400 TPO and PVC/KEE HP Installation Guide

U-Anchors® provide a secure method for fastening rooftop equipment directly to the roof deck without complex detailing or compromising the system's watertight integrity. Properly installed, they are leak-proof by design, highly versatile, and capable of supporting a wide range of rooftop accessories, helping eliminate conditions that were once considered unwarrantable.

This installation guide is intended for use by experienced Authorized Applicators. Each project must follow its specific specifications and engineering requirements to ensure proper securement and safety.

U3400

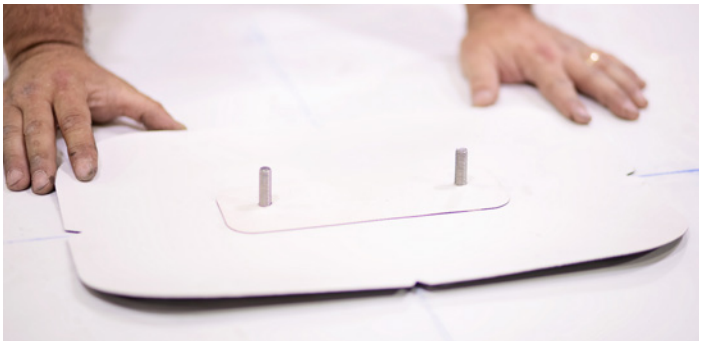
Required Tools:

- Drill with applicable bit
- Fasteners per project requirements
- TPO or PVC/KEE HP membrane cleaner
- Handheld hot-air welder
- TPO Cut-Edge Sealant (for TPO installations only)

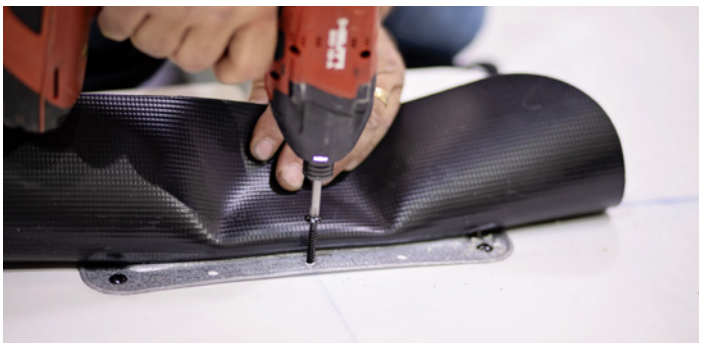
Optional Tools:

- Chalk line

Step 1: Align the U-Anchor according to the engineered design. Most layouts and designs are transferred to the roof surface using chalk lines. If alignment is needed, use the notches in the U-Anchor flashing membrane to position the anchor plate along the chalk line. *Avoid using permanent chalk such as red chalk.*



Step 2: Fold the flashing membrane up to expose the U-Anchor plate. Install the U-Anchor Plate with the type and number of fasteners specified by your design professional, securing the plate to the roof deck through the existing roofing system.



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Step 3: Clean the roof surface with the appropriate TPO or PVC/KEE HP membrane cleaner. Following written specifications, hot-air weld the flashing membrane's perimeter using a 2" hand roller to achieve a continuous weld at least 2" wide.

After installation, use a seam probe to verify the integrity of the weld.

Additional Notes:

- For TPO U-Anchor installations, apply TPO Cut-Edge Sealant around the perimeter of the membrane flashing after installation.
- If the U-Anchor is installed over a membrane seam creating a T-joint, follow Carlisle's Thermoplastic U-2 details for proper T-joint treatment.
- Wood or other approved structural blocking may be required beneath U-Anchors, in place of insulation, where the weight of the supported component or anticipated loads could compress or damage the underlying insulation. The need for blocking is a design consideration to be determined by the system designer or engineer of record and is not a requirement of the Carlisle Watertight Warranty.
- Contact Carlisle if fastener length exceeds 12".
- Standard 60-mil flashing is approved for Carlisle warranties up to 20 years. For 25- and 30-year warranties, U-Anchors with 80-mil flashing are required.

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