# Anchor Products® U-Anchors®



*U2400*



*U3400*

## Overview

Carlisle SynTec Systems has partnered with Anchor Products to offer U2400 and U3400 anchors that are eligible for inclusion in Carlisle's watertight warranty when installed by a Certified Applicator.

U-Anchors are a lightweight, high-strength, patented rooftop attachment system designed with both safety and ease of installation in mind. U-Anchors allow rooftop equipment to be securely fastened directly to the roof deck without complicated detailing or compromising the watertight integrity of the system. When 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 previously considered unwarrantable.

U-Anchors are available in two designs to meet application needs. The U2400 features a single ⅜" threaded 304 stainless steel bolt, while the U3400 features two ⅜" threaded 304 stainless steel bolts. Selection depends on the application and the loads being applied. Both models are available with standard 60-mil Carlisle EPDM, TPO, or PVC/KEE HP flashing in all standard colors, ensuring a consistent, integrated appearance with the roof membrane.

U-Anchors have been rigorously tested and approved in accordance with FM 4481: Standard for Anchors for Roof Mounted Equipment and are fully code-compliant with the 2018 and newer International Building Code for wind resistance of rooftop equipment. U-Anchors are approved for inclusion in Carlisle's watertight warranty and come standard with a limited material warranty for a period equal to the duration of the roof system, offering contractors and building owners confidence in long-term performance.

## Features and Benefits

- Versatile – can be used for a multitude of different applications
- Extremely strong
- Lightweight
- Easy to install – less than 5 minutes
- Can be installed in horizontal or vertical orientation
- Leak-proof when installed using proper techniques
- FM approved
- Code compliant
- Made in the USA

## Packaging

| | U2400 | U3400 |
|---|---|---|
| Minimum Purchase Quantity | 1 box = 10 U-Anchors | 1 box = 10 U-Anchors |
| Weight per U-Anchor | TPO/PVC/KEE ≈ 0.6 lbs.<br>EPDM ≈ 0.9 lbs. | TPO/PVC/KEE ≈ 1.4 lbs.<br>EPDM ≈ 1.5 lbs. |
| Weight per Box | TPO/PVC/KEE ≈ 9.8 lbs.<br>EPDM ≈ 10.6 lbs. | TPO/PVC/KEE ≈ 17 lbs.<br>EPDM ≈ 18 lbs. |
| Box Dimensions | 13" x 11" x 13" | 19" x 14" x 14" |
| Full Pallet Quantity | 60 boxes<br>(600 U-Anchors total) | 24 boxes<br>(240 U-Anchors total) |
| Pallet Size | 40" x 48" x 69" | 40" x 48" x 61" |

# Anchor Products U-Anchors

## U2400 Anchors



*Front*



*Back*

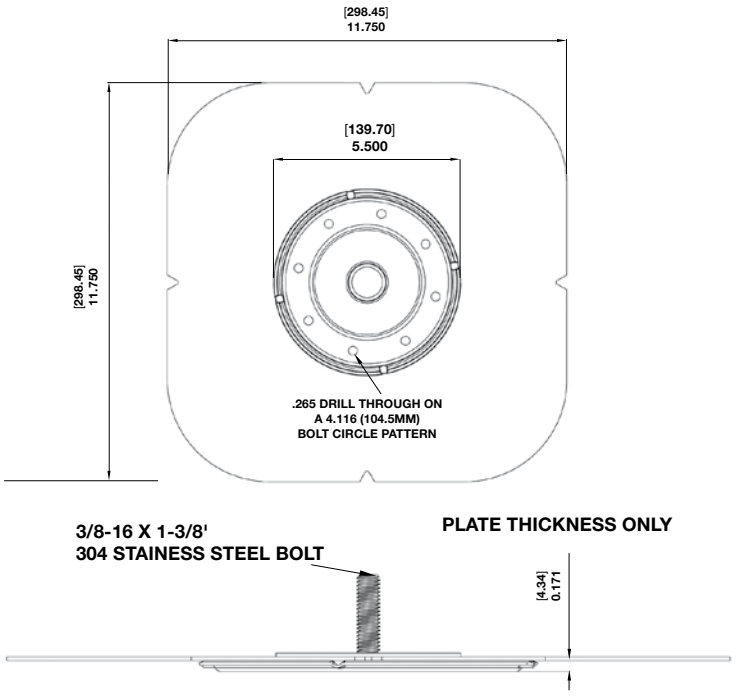
*Shown here in white TPO. Also available in EPDM and PVC/KEE HP material in all available colors.*

### Overview

U2400 Anchors feature a single ⅜" threaded 304 stainless steel bolt welded to a 5.5" diameter G90 galvanized steel plate. The plate includes eight 0.265" diameter holes for secure fastening to the building structure.

Each U2400 anchor is supplied with a pre-cut cover membrane, available in EPDM, TPO, or PVC/KEE HP. EPDM anchors include pressure-sensitive material that is field-applied after fastening. TPO and PVC/KEE HP anchors include factory-sealed membrane material, bonded to the plate using induction welding.

U2400 Anchors deliver a positive, watertight, warranted, and code-compliant anchor point for a wide range of rooftop accessories — including HVAC units, guy wires, lightning protection, pipe supports, and electrical boxes — while ensuring a quick, safe, and efficient installation.



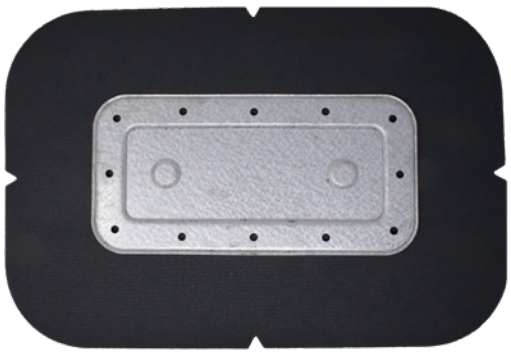

*Dimensional Drawing*

# Anchor Products U-Anchors

## U3400 Anchors



*Front*



*Back*

*Shown here in white TPO. Also available in EPDM and PVC/KEE HP material in all available colors.*

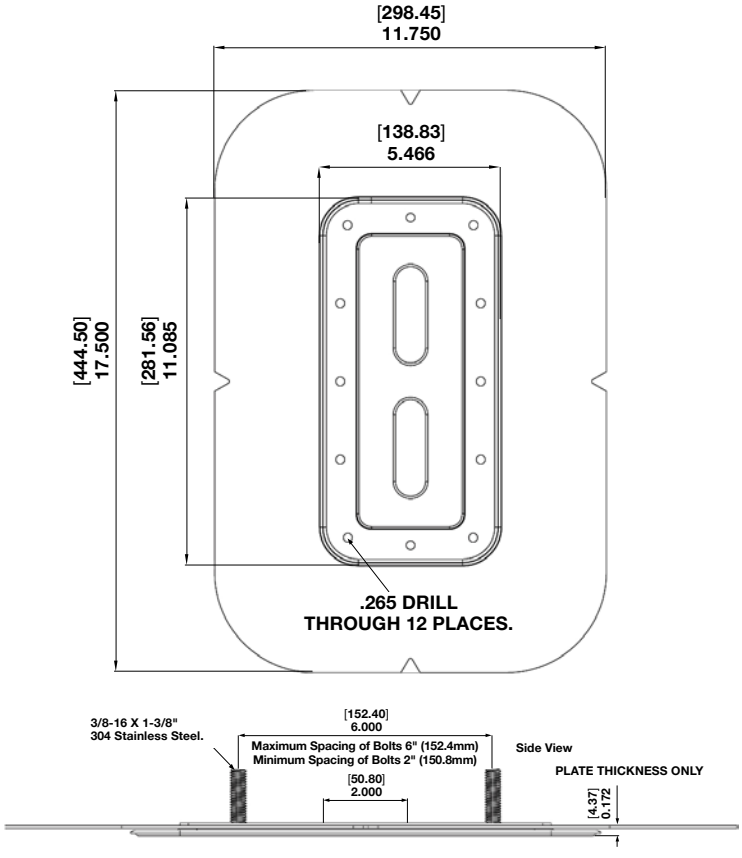
### Overview

U3400 Anchors feature two ⅜" threaded 304 stainless steel bolts welded to a 11" x 5.5" G90 galvanized steel plate. The plate includes twelve 0.265" diameter holes for secure fastening to the building structure.

Each U3400 anchor is supplied with a pre-cut cover membrane, available in EPDM, TPO, or PVC/KEE HP. EPDM anchors include pressure-sensitive material that is field-applied after fastening. TPO and PVC/KEE HP anchors include factory-sealed membrane material, bonded to the plate using induction welding.

The U3400 anchors feature two bolts for enhanced securement in rooftop applications. The dual-bolt design not only increases stability but also prevents certain accessory attachments from twisting around a single connection point, as can occur with U2400 anchors.

U3400 Anchors deliver the same positive, watertight, warranted, and code-compliant attachment point for rooftop accessories as the U2400 model, but with enhanced securement — ideal for applications such as snow retention systems, guard rails, and equipment screens.




*Dimensional Drawing*

CARLISLE SYNTEC SYSTEMS

# Anchor Products U-Anchors

## Installation (Applicable for both U2400 and U3400 series anchors)

1. Align the U-Anchor Plate according to the engineered design. For installations requiring precise alignment of multiple U-Anchors in a row, snap a chalk line and align the anchors along the line using the pre-cut notches in the membrane flashing (TPO and PVC/KEE HP) or the bolt holes of the plate (EPDM).
2. Fasten the U-Anchor plate through the roofing system and into the roof deck using approved fasteners at the fastening density specified by the design professional.
3. Flashing installation:
   a. For TPO and PVC/KEE HP anchors, clean the roof surface and hot-air weld the anchor flashing to the primary roof membrane using approved installation techniques.
   b. Note: For TPO U-Anchor installations, apply Cut-Edge Sealant around the perimeter of the membrane flashing after welding.
   c. For EPDM anchors, apply EPDM primer on the anchor plate as well as the roof surface where the flashing will be installed. Allow the primer to get tacky to the touch. Then remove the flashing release liner, gently curl the flashing edges up, and push the bolt(s) through the flashing hole(s). Before sticking the flashing down, ensure that it is properly aligned. Once aligned, press the flashing down firmly to the roof surface with your hands to adhere, paying attention to avoid wrinkles and air pockets. Then using a 2-inch-wide hand roller, roll the flashing material to achieve a proper bond to the roof membrane. Finish the installation by placing the separation disk around the bolt(s).
   d. Note: 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 for TPO and PVC/KEE HP installations. For 25- and 30-year EPDM installations, standard 60-mil pressure-sensitive (PS) flashing is permitted; however, the flashing seam must be stripped in using 6-inch Carlisle Elastoform Flashing.

*For more detailed installation instructions, please see the applicable Carlisle U-Anchor Installation Guide.*

## Precautions

» U-Anchors must be fastened through the roof assembly into the structural decking. Fastener type and density is dictated by the design professional for the specific application.

» 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.

» Rooftop equipment and accessories are mounted to the U-Anchors after installation is complete by utilizing the supplied washer and nut. The nut must be fastened to 20 – 25 lb-ft using a calibrated torque wrench. Excessive torque may damage the U-Anchor.

## Typical Properties and Characteristics

| Physical Property | Test Method | U2400 | U3400 |
|---|---|---|---|
| **Bolt** | | | |
| Number of Bolts | - | 1 | 2 |
| Bolt Size | - | ⅜" – 16 x 1 ⅜" * | ⅜" – 16 x 1 ⅜" * |
| Bolt Material | - | 304 Stainless Steel | 304 Stainless Steel |
| **Plate** | | | |
| Plate Size | - | 5.5" diameter | 5.5" x 11" |
| Plate Material | - | G90 Galvanized Steel | G90 Galvanized Steel |
| Number of Fastener Holes in Plate | - | 8 | 12 |
| Fastener Hole Diameter | - | 0.265" | 0.265" |
| **Flashing** | | | |
| Flashing Material | - | Available in Carlisle EPDM, TPO, and PVC/KEE HP membrane material in all standard color options | |
| Flashing Size | - | 11.75" x 11.75" | 11.75" x 17.50" |
| Flashing Thickness | - | 60-mil ** | 60-mil ** |
| **Performance Testing *** ** | | | |
| Ultimate Load – Shear **** | FM 4481 | 4,293 lbs. | 8,557 lbs. |
| Ultimate Load – Tension | FM 4481 | 2,712 lbs. | 6,032 lbs. |

Typical properties and characteristics are based on samples tested and not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of these products.

* Custom bolt sizes may be available for an additional charge. Lead times may apply.

** 60-mil flashing material is standard. 80-mil TPO and PVC/KEE HP flashing is available for an additional charge.

*** Performance testing results are shown for the plate only when tested in accordance with FM 4481, Section 4.1 over ½" steel. Assembly-specific results may vary.

**** Shear value is obtained by testing at the base of the bolt. Account for the moment force of any attachment that increases the height of the connection point.

## Green Building Information

| | |
|---|---|
| Pre-Consumer Recycled Content | 0% |
| Post-Consumer Recycled Content | 0% |
| Solar Reflectance Index (SRI) | N/A |
| Global Warming Potential (GWP) | N/A |
| Volatile Organic Compounds (VOC) Content | N/A |
| Manufacturing Location(s) | Haltom City, TX |
| Corporate Sustainability Report (CSR) Availability | Yes |
| Environmental Product Declaration (EPD) Availability | No |

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