IB Roof Systems®

Product Description:

IB U-Anchor® attachment device provides a watertight connection and code-compliant solution for securing rooftop equipment, that resists wind uplift, weather exposure, and heavy rooftop loads. Its efficient design ensures quick install, lasting strength, and adaptability across a wide range of attached rooftop applications.

A U-Anchor 2400 series plate is typically utilized for this solution. The plate is factory welded to the target membrane and a matching thermoplastic cover membrane is applied over the plate and onto the target membrane, encapsulating the plate.

Use:

- Provides a suitable flashing device connection for for mounting various types of rooftop equipment attachments to the roof system.
- Available with IB ChemGuard (KEE), IB PVC, and IB TPO single-ply target sheets factory welded to the anchor plate.
- Simple and quick to install - less than 5 minutes.
- Compression-free design protects the roof surface.
- Acts as an effective expansion joint at each rooftop attachment point and minimizes stress to roof components.
- All exposed components and hardware are made with stainless steel, aluminum, or other non-corrosive materials.

Thickness:

60 mil is standard. 80 mil available as Special Order.

Colors:

PVC/PVC ChemGuard - White. All colors are Special Order.
TPO - White. Gray and Tan are Special Order.

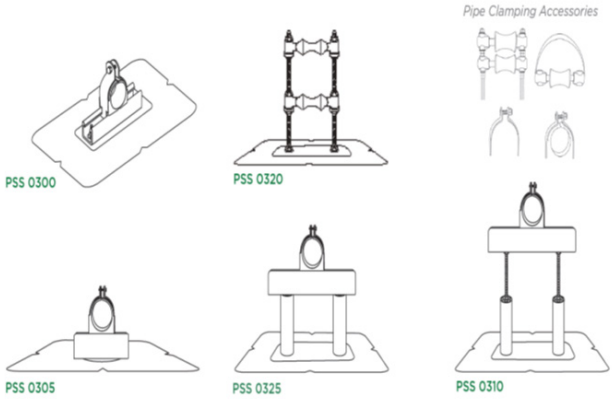
Product Specifications:

U-Anchor 3400 Product Informaton	
Plate Material Type	G90 Galvanized Steel
Plate Material Thickness	0.047" (1.194 mm)
Plate Dimensions	11" x 5.5"
Bolt Dimensions	3/8" – 16 x 1-3/8" (2 bolts)
Bolt Material Type	304 Stainless Steel
Fastener Hole Dimension	0.265 (12 predrilled holes)
Flashing Dimensions	11-3/4" x 17-1/2"
Weight	1.4 lbs.
Ultimate Shear Load**	8,557 lbs.
Ultimate Load - Tension	6,032 lbs.

*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.
U-Anchor® is a registered trademark of Anchor Products.

Pipe Securement Solution:

Pipe securement with a U-Anchor is your solution to safely securing your pipes to the wall or the roof, vertically or horizontally. The pipe securement solution provides a wide range of options to create the perfect solution for your pipe support and securement needs. Customize your system further by choosing the specific pipe clamps with sleeves or rollers to meet your design specifications.



ASCE 7-16 code requires all rooftop equipment to be bolted, welded, or otherwise positively fastened without consideration of frictional resistance.

Your support system can include a combination of the following parts:

Accessory Product Information:

Support Strut	
Dimensions:	1-5/8" x 1-5/8" x 12"
Material Type	Powder Coated Galvanized Steel
Lengths available	8", 12", 16, 24"- 48"
All Thread	
Dimensions:	3/8"-16 x 8"
Material Type	Stainless Steel
Extension Post	
Dimensions:	2-1/4" x 8"
Material Type	Aluminum
Connection Nut	
Dimensions:	3/8"-16 x 2" - Wrench 5/8"
Material Type	Stainless Steel
Pipe Clamp	
Dimensions:	As per design requirements
Material Type	Galvanized steel
Pipe Clamp with Cushion	
Dimensions:	As per design requirements
Material Type	Galvanized steel
Roller with Guide	
Dimensions:	As per design requirements
Material Type	Hot Dipped Galvanized steel or Polycarbonate
Double Roller	
Dimensions:	As per design requirements
Material Type	Hot Dipped Galvanized steel or Polycarbonate

PIPE SECUREMENT

Application:

Install the IB U-Anchor 3400 Flashing in accordance with IB Specifications and Construction Details. Refer to IB PVC Specifications and Construction Details for KEE and PVC installation requirements and additional information for specific uses. Refer to IB TPO Specifications and Construction Details for TPO installation requirements and additional information for specific uses. Flashings must not be applied during adverse weather or without precautionary measures in temperatures below 40°F (4°C). All surfaces should be clean, dry, free of dirt, dust, debris, oils, soaps, coatings, and other contaminants that may inhibit bonding. Prior to application, use the IB Membrane Cleaner to ensure no oil, dirt, moisture, or other foreign materials are present on either the receiving substrate.

Elevated Pipe Stands:

1. Mark down the area where the anchor will be placed.
2. Once aligned, fasten the U-Anchor over the roofing membrane to the deck using the specified type of fasteners as per design requirements.. Make sure to follow any applicable pre-installation and post-installation requirements according to the engineered design. Refer to IB U-Anchor 3400 TDS for additional installation instructions of the U-Anchor.
3. Weld the membrane in place using hot-air welding method per IB installation instructions.
4. Screw standoff post to each bolt on the anchor. Drainage slots should be facing down.
5. Screw all thread (length may vary) to each standoff post.
6. Add lock washer and a flange hex nut facing down.
7. Add flange hex nut and washer facing up to set preferred height.
8. Add washers and strut to the all-thread bolts.
9. Add flange hex nut and washer to both threads to secure strut.
10. Tighten all hardware as per design requirements.

For Roller Attachment (follow steps 1 - 8 and then pick up at below steps 11 - 15):

11. (For Roller Attachment): Add roller to both all-thread bolts (may need to adjust height). Adjust centerline of sockets to fit all thread, ensure each socket has equal amount of thread.
12. Add washer and a flange hex nut to secure the roller.
13. Repeat steps 7-9. The top roller is not intended to bear directly on the pipe. It should be installed as a guide to facilitate proper thermal expansion and contraction along the pipe run.
14. Add flange hex nut and a washer facing up on each all-thread bolts to set desired height of top roller. Excess all-thread bolts over 2” needs to be cut and caps added.
15. Tighten all hardware as per design requirements.

Horizontal Pipe Stands:

1. Mark the area where the anchor will be placed.
2. Once aligned, fasten the U-Anchor over the roofing membrane to the deck using the specified type of fasteners as per design requirements.. Make sure to follow any applicable pre-installation and post-installation requirements according to the engineered design. Refer to IB U-Anchor 3400 TDS for additional installation instructions of the U-Anchor.
3. Weld the membrane in place using hot-air welding method per IB installation instructions.
4. Attach strut to U-Anchor.
5. Attach pipe clamp to strut with provided hardware.
6. Tighten all hardware as per design requirements.

Refer to www.ibroof.com for additional installation instructions. Membranes must not be applied during adverse weather or without precautionary measures in temperatures below 40°F (4°C). All surfaces should be clean, dry, free of dirt, dust, debris, oils, soaps, coatings, and other contaminants that may inhibit bonding.

Safety:

Use proper equipment and assistance when moving, lifting, handling, or transporting membrane rolls to avoid personal injuries as well as damage to the membrane. Refer to the Product Safety Data Sheet for additional safety information.

Storage:

Store U-Anchors indoors, out of direct sunlight, in original unopened containers and away from objects that could cause physical damage or create punctures as well as ignition sources.

Go to https://ibroof.com/tds for the most up-to-date version of this document. **Toll Free: 800-426-1626**

Care has been taken to ensure that the contents of this publication are accurate, however IB Roof Systems and any subsidiary companies do not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use of application of products or methods of working, are for information only and IB Roof systems and any subsidiary accept no responsibility in respect thereof.

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.