


The logo for Firestone Building Products is centered on a light beige background with a subtle, larger-scale pattern. The word "Firestone" is written in a large, bold, red, sans-serif font. Below it, the words "BUILDING PRODUCTS" are written in a smaller, bold, black, sans-serif font, underlined with two thin black horizontal lines. The entire logo is framed by a curved, dark red border that sweeps across the top and bottom of the image.

Firestone

BUILDING PRODUCTS

Firestone Building Products TPO

Firestone
BUILDING PRODUCTS

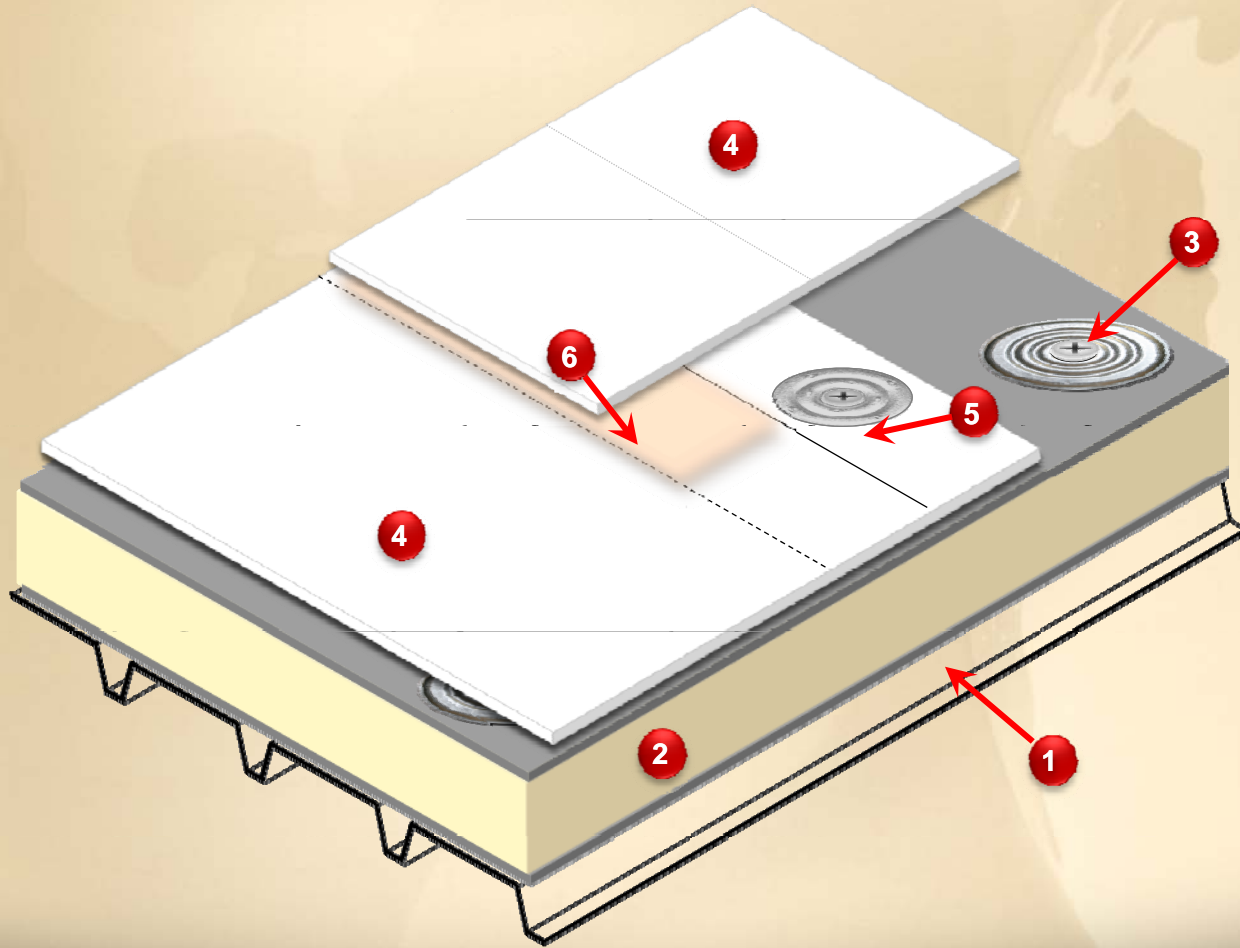
The background features a stylized, semi-transparent globe in shades of beige and cream, showing the outlines of continents. This globe is set against a white background and is framed by two thick, curved red borders that sweep from the top-left and bottom-right corners towards the center.

Membrane Attachment



Mechanically Attached Thermoplastic

All Membrane Types



- 1 Roof Deck
- 2 Roof Insulation – one or more layers
- 3 Fasteners & 3" Plates to Mfr Specs
- 4 Thermoplastic Membrane
- 5 Fastener & Membrane Plate to Mfr Specs
- 6 Hot Air Weld to Mfr Specifications

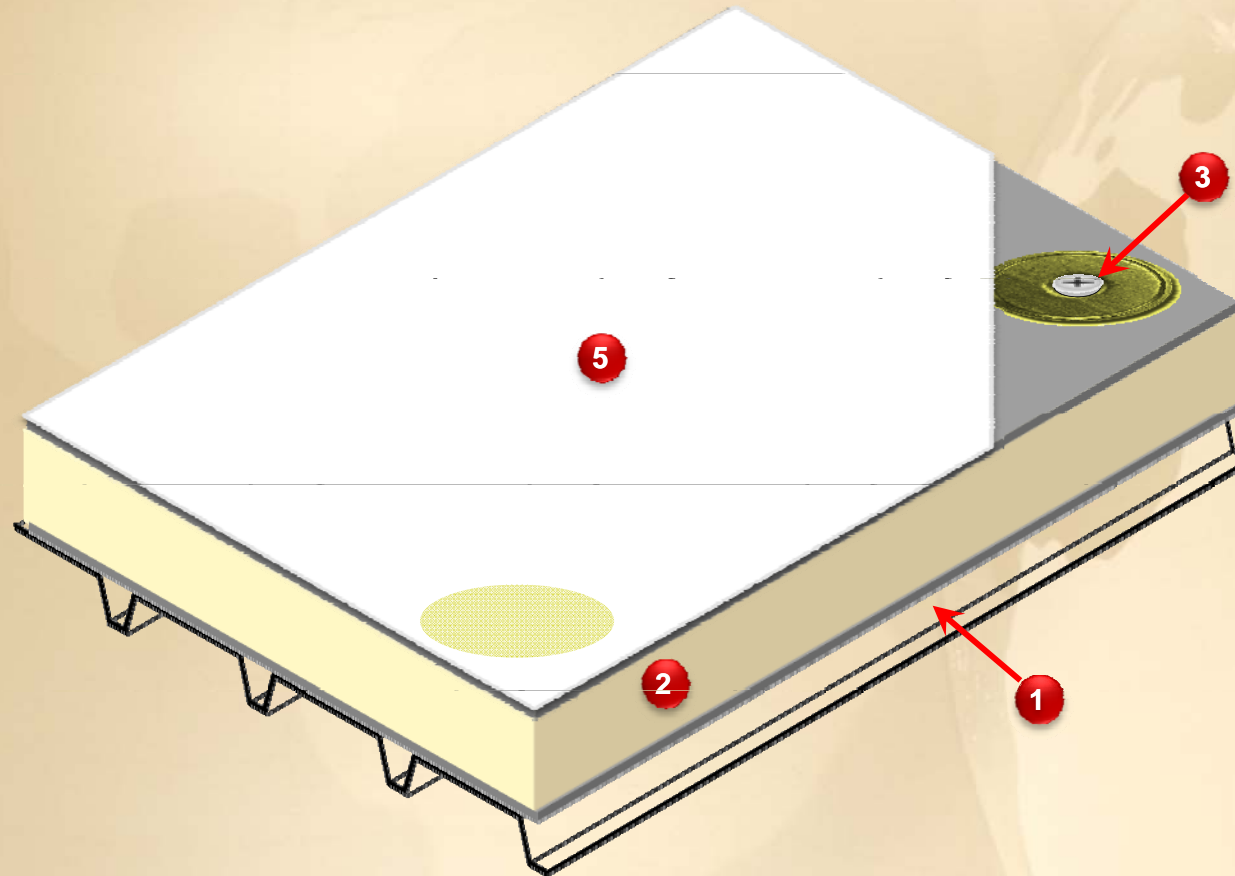


Mechanically Attached Installation





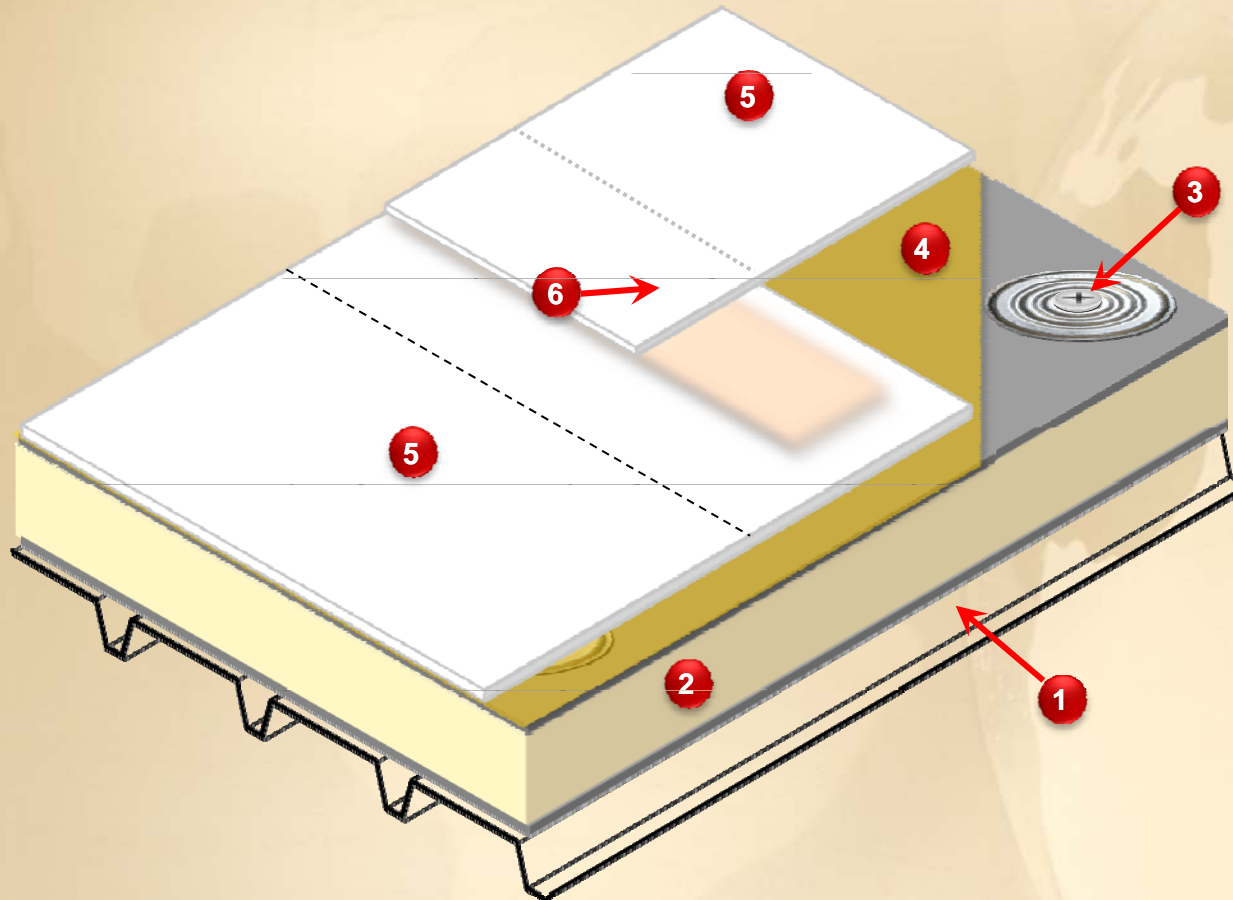
Mechanically Attached Thermoplastic



- 1** Roof Deck
- 2** Roof Insulation – one or more layers
- 3** Fasteners & InvisiWeld Plates to
- 4** Thermoplastic Membrane, Loose Laid
- 5** Induction Weld through Membrane to Special 3" Plate



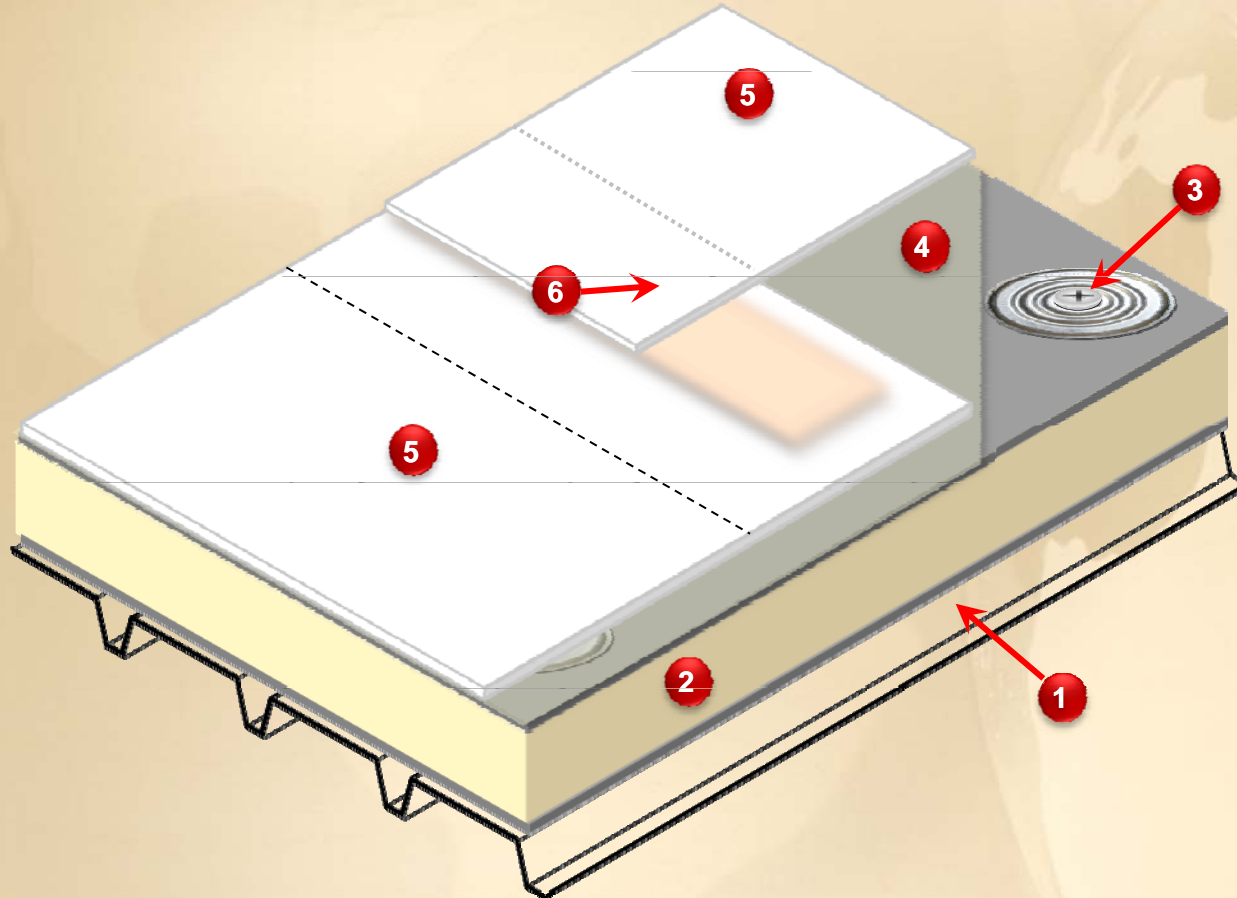
Fully Adhered Thermoplastic



- 1 Roof Deck
- 2 Roof Insulation – one or more layers
- 3 Fasteners & 3" Plates to Mfr Specs
- 4 Membrane Adhesive (by Manufacturer)
- 5 Thermoplastic Membrane
- 6 Hot Air Weld to Mfr Specifications



Fully Adhered Thermoplastic Felt Backed Membrane



- 1 Roof Deck
- 2 Roof Insulation – one or more layers
- 3 Fasteners & 3" Plates to Mfr Specs
- 4 Membrane Adhesive (by Manufacturer)
- 5 Thermoplastic Membrane
- 6 Hot Air Weld to Mfr Specifications

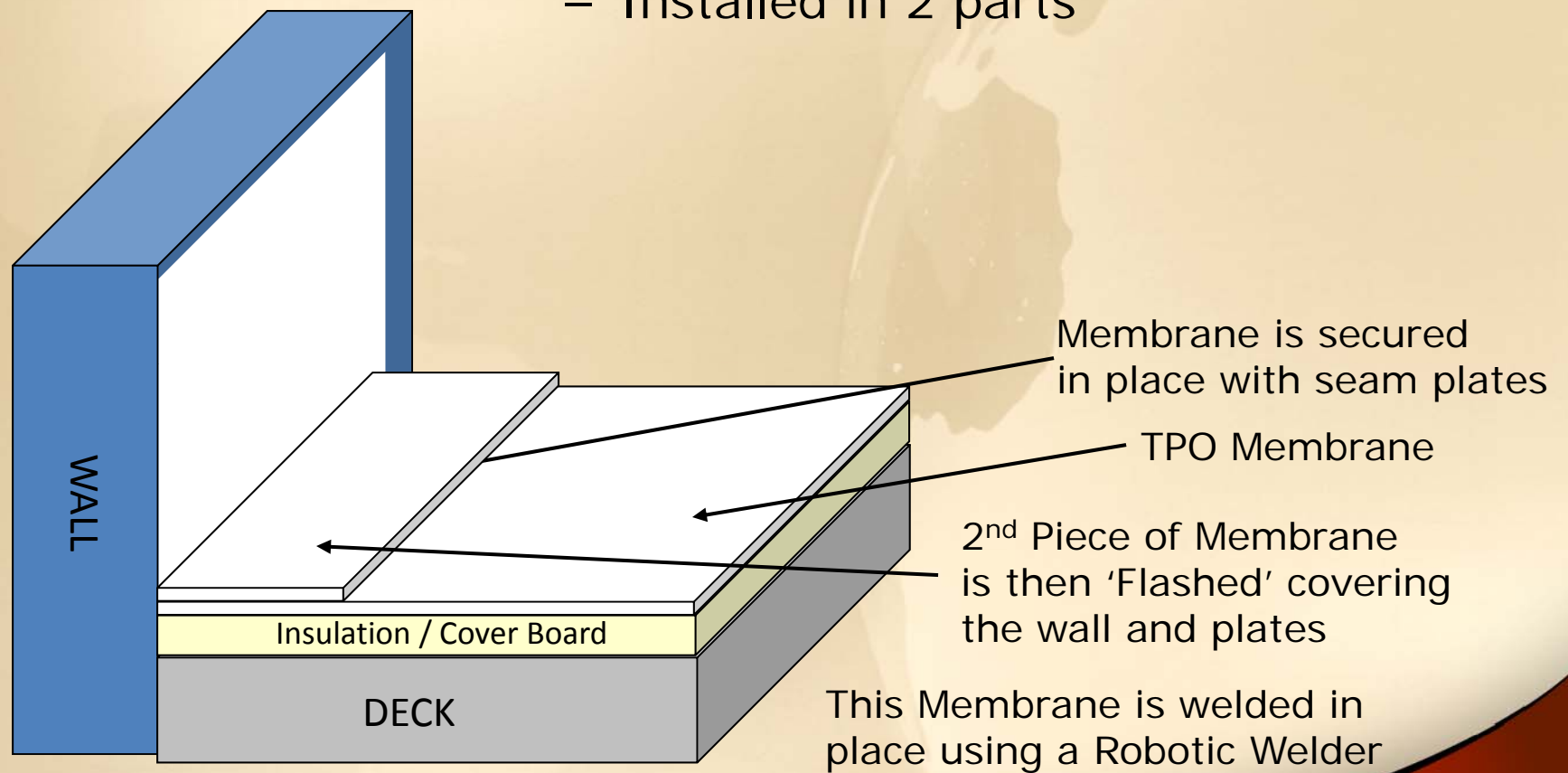
The background of the slide features a stylized, semi-transparent globe in shades of beige and cream. The globe is centered and shows faint outlines of continents. It is framed by a thick, vibrant red border that curves around the top and bottom edges. A thin, black, curved line separates the red border from the globe, adding a sense of depth and design.

Base Tie-in



Base Tie-In

- Base Tie-Ins (BTI)
 - A **Required** Detail
 - Installed in 2 parts





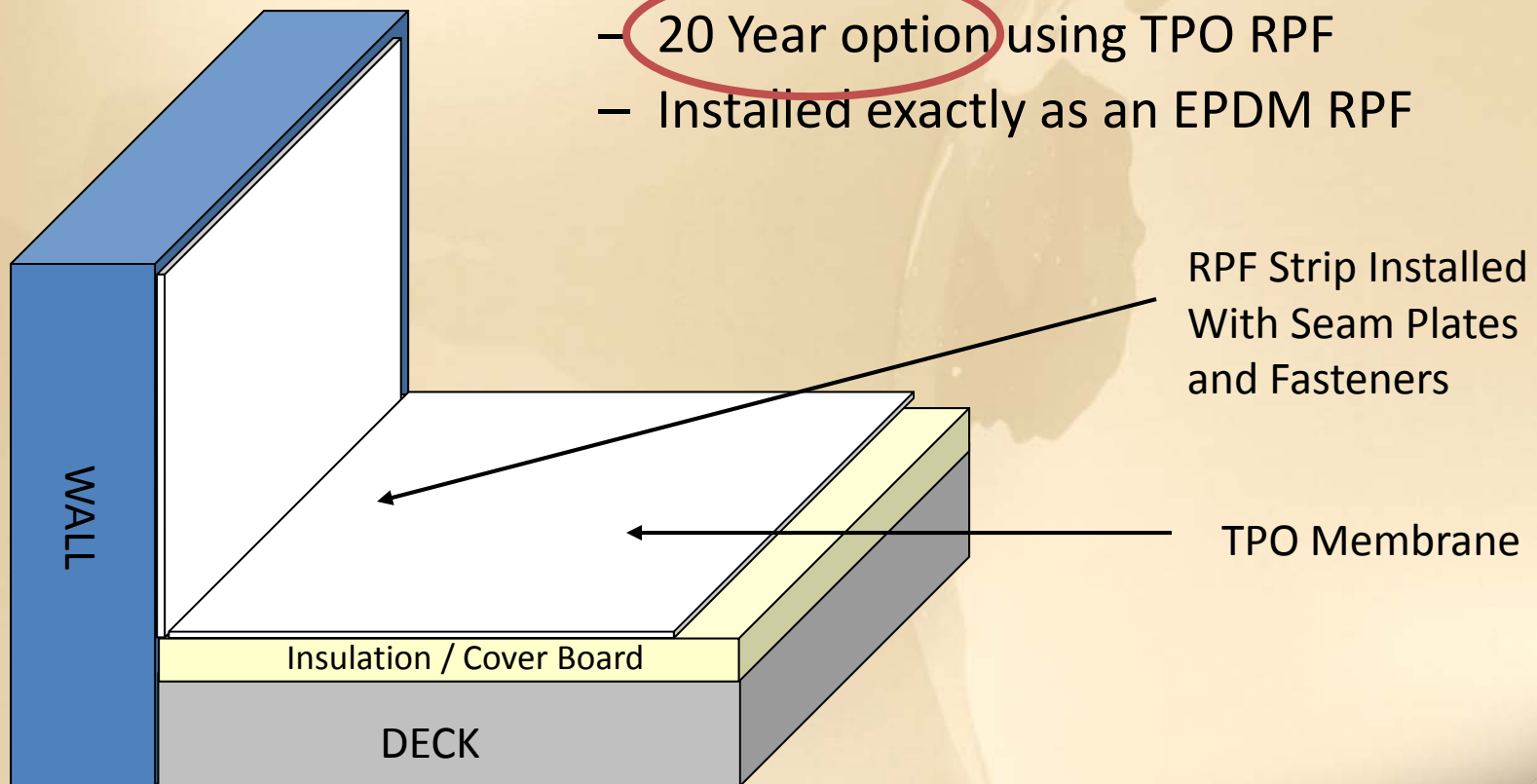
What's Wrong?





Installing a Pipe Boot:

- Base-Tie-Ins (BTI)
 - 20 Year option using TPO RPF
 - Installed exactly as an EPDM RPF





Lap Splicing

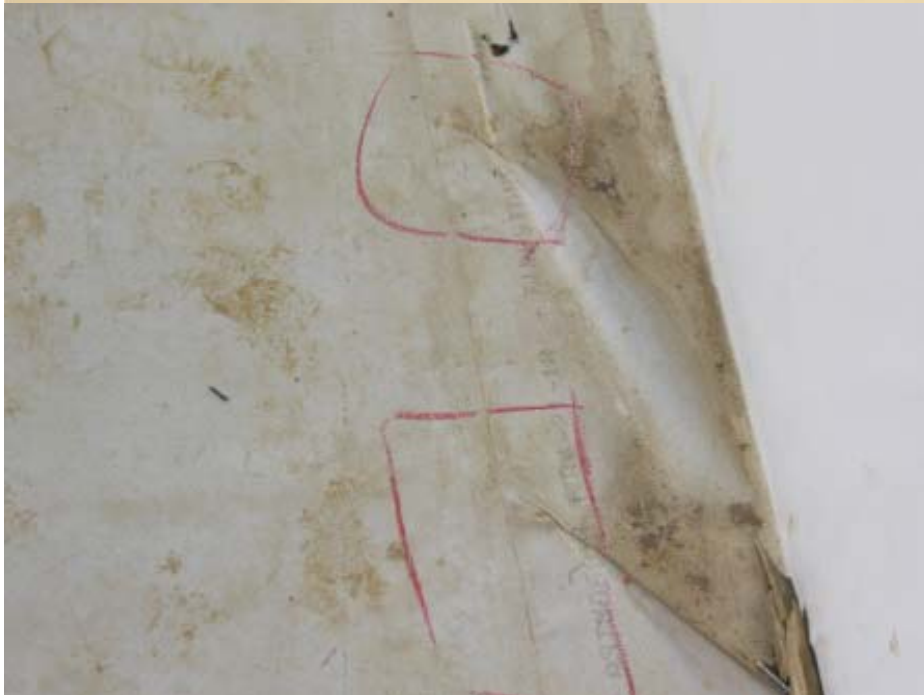


Lap Splicing

- Lap splicing on a TPO system is defined as joining two separate sheets, by way of heat welding, into one monolithic sheet. This includes field membrane as well as details.
- This can be achieved by using a robotic welder or a hand welder
- A robotic welder is important for having uniform seams that are quick and easy to perform.
- Test samples are needed at the start-up of everyday to assure the robot is working properly.



Common Problems



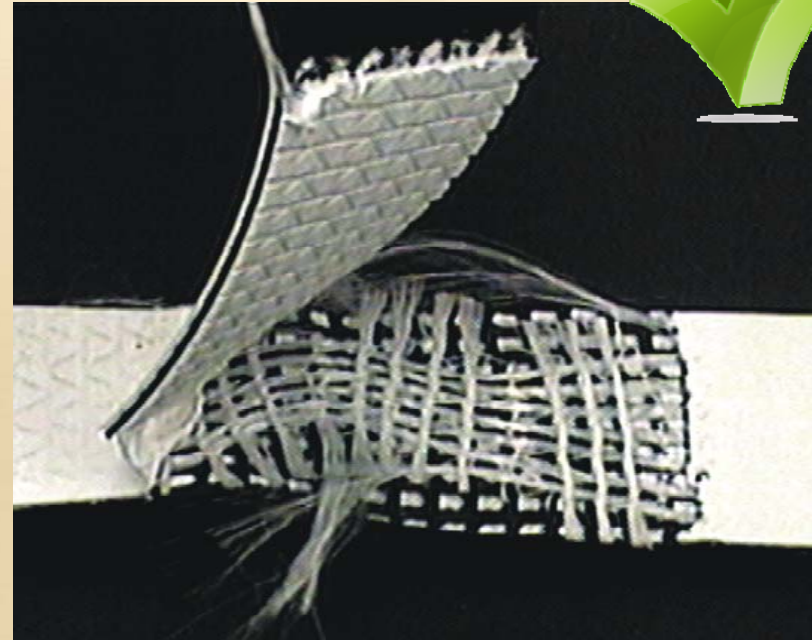
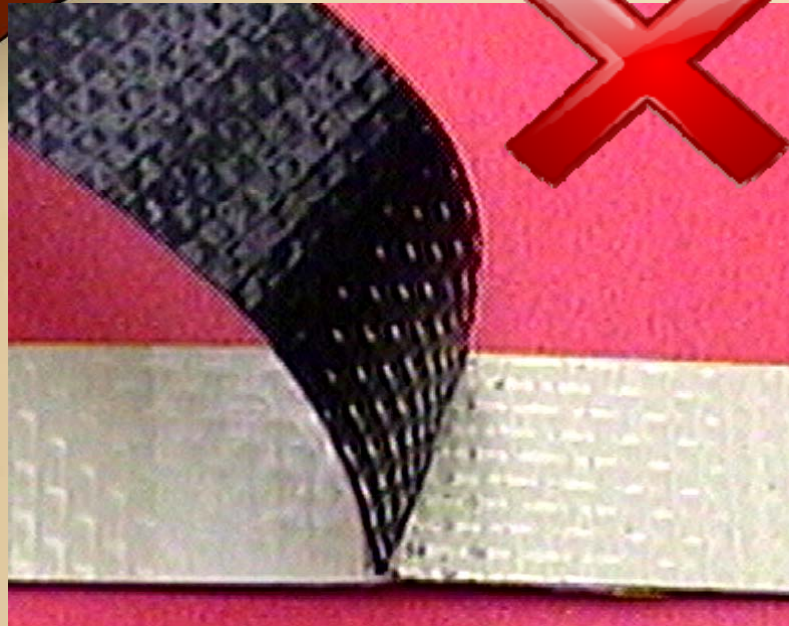


Proper Lap Splicing





Testing seam integrity



- It is important to do test welds to assure the robot set-up for each day as well as quality assurance of hand welding.
- Sample on the left fails because there is no true weld formed and will separate easily over time.
- Sample on the right is correct because the top sheet has fully attached to the bottom sheet, creating a monolithic sheet.



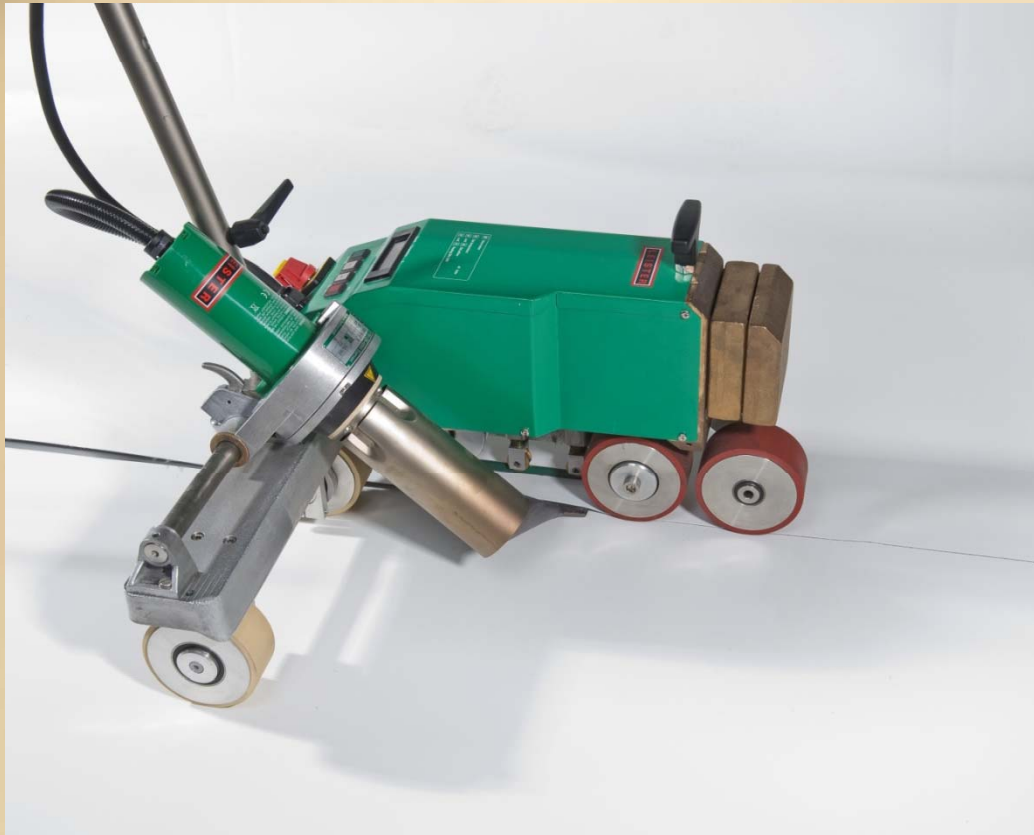
Additional Seam Testing



- Probing of all seams completed in the day are required to be probed at the end of the day.
- Be sure the weld has cooled before probing.
- Apply sufficient force to truly see if it is a proper weld.
 - False welds with “pass” with a light probe.



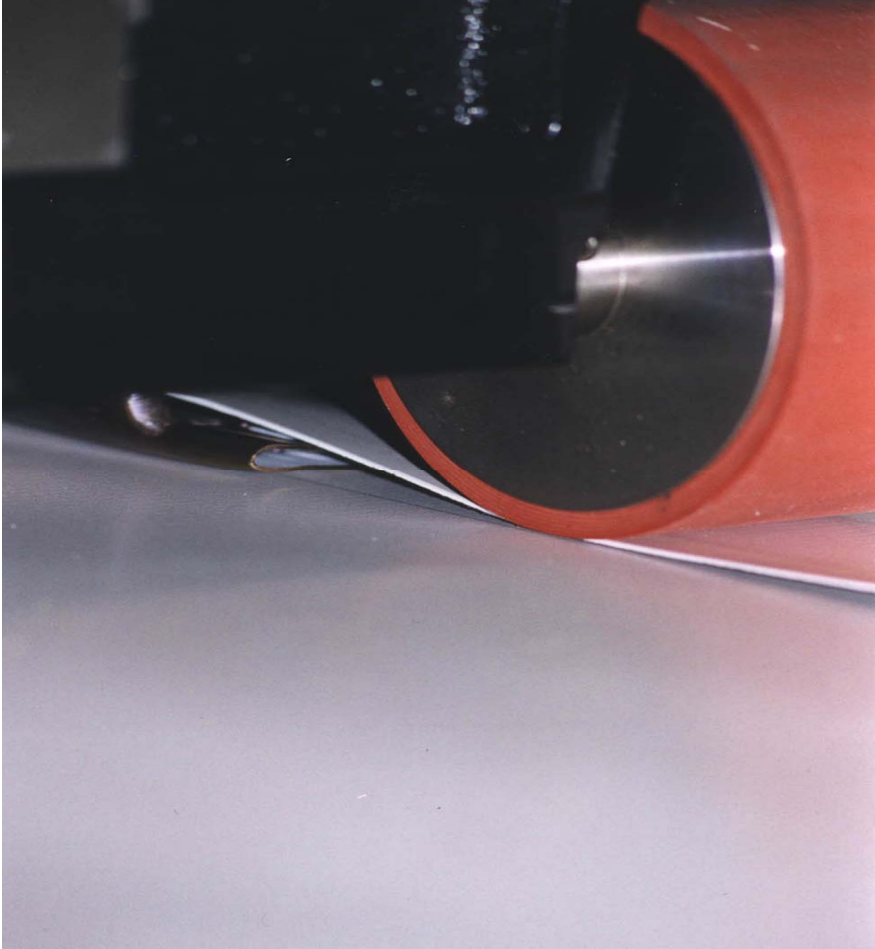
Robotic Heat Welding



- Various manufactures.
- Adjustable settings.
- Different configurations.
- Quickest and most efficient way to create field seams.



Robotic Heat Welder Set-up and Requirements



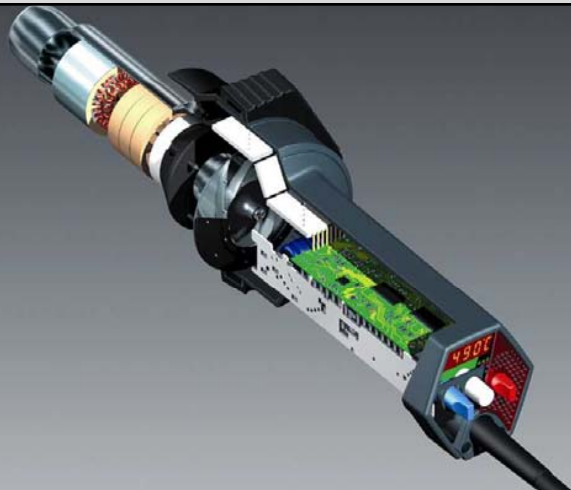
- Tracking guide
 - Wheel 1/8" over edge
- Nozzle
 - Placement into seam
 - Height off of membrane
 - Angle
 - Distance to wheel
- Weight
 - Varies with machines
- Requires at least 7500 Watts
 - Preferred dedicated generator
- Parts need maintenance to assure proper operation
 - Air Dam
 - Silicone Wheels
 - Heating Element
 - Drive Belt
 - Nozzle clean



Hand Welding



- 2" weld required.
- Temperature settings vary from user to user.
- Speed is controlled by the user.
- All hand welds need to be checked at the end of each day.
- Several hand welder brands.
- Various tips for different applications.
- Slower and less efficient compared to robotic welders.
- Lots of practice required to weld proficiently.





Common Problems



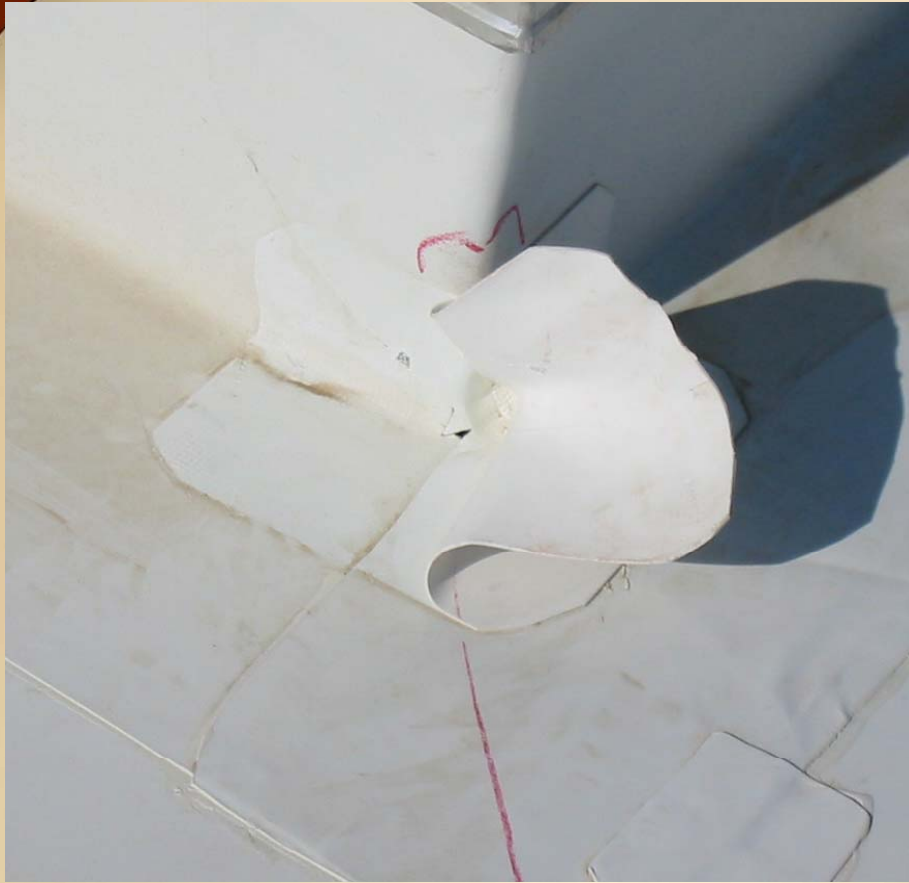
Caused by incorrect tracking and how the robot is "placed" onto the sheet.



Cause by the stop of the robot and the start of hand welding.



Reasons to practice hand welding!

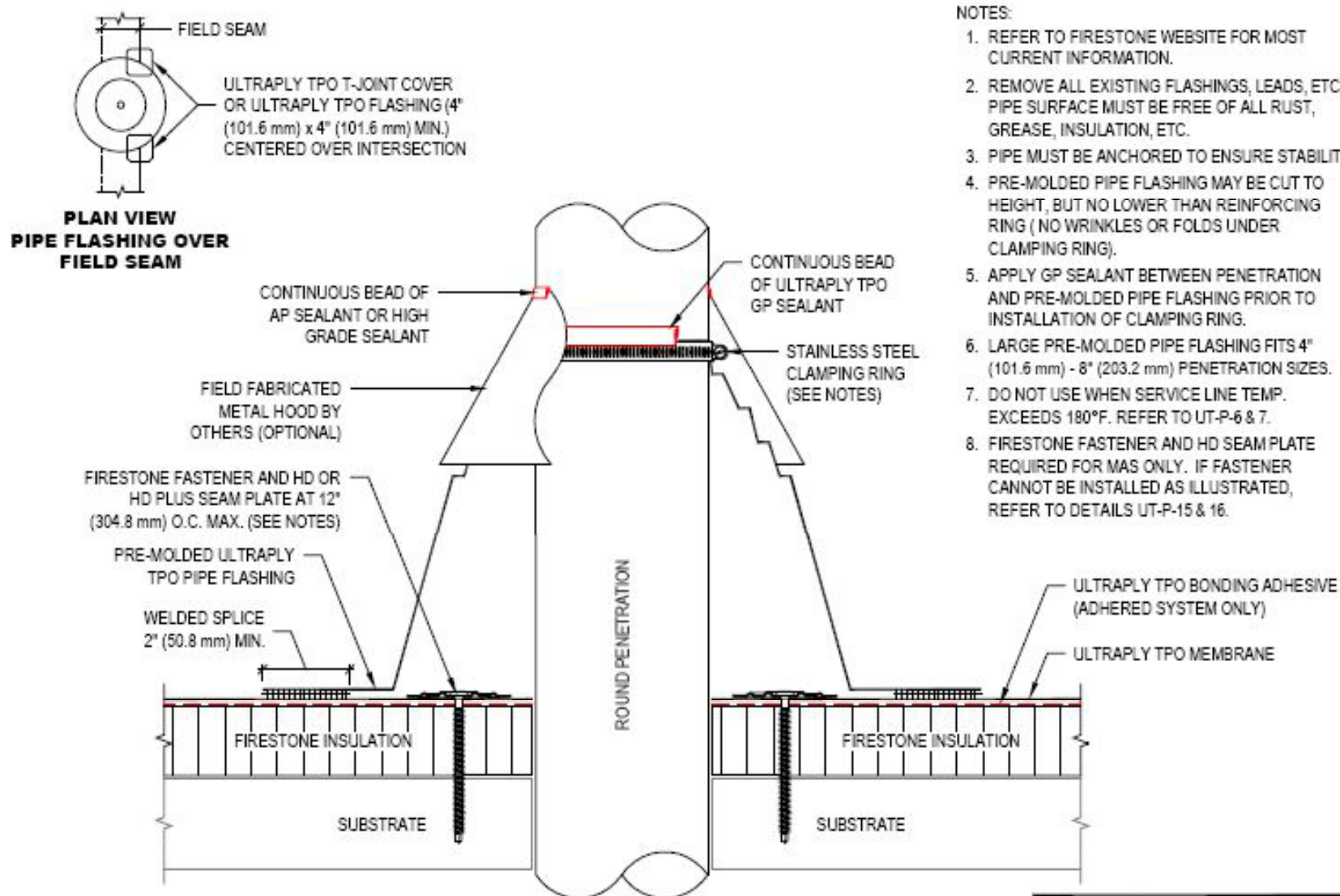




Penetrations



Installing a Pipe Boot:



NOTES:

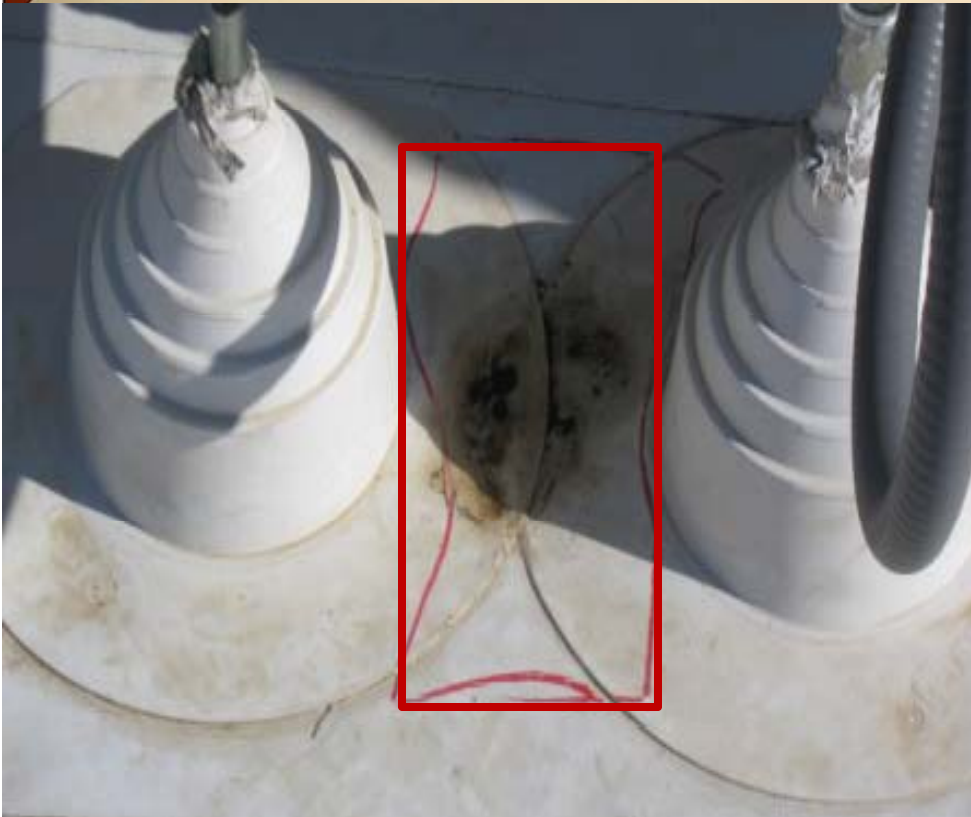
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
5. APPLY GP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
6. LARGE PRE-MOLDED PIPE FLASHING FITS 4" (101.6 mm) - 8" (203.2 mm) PENETRATION SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & 7.
8. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & 16.



Installing a Pipe Boot:

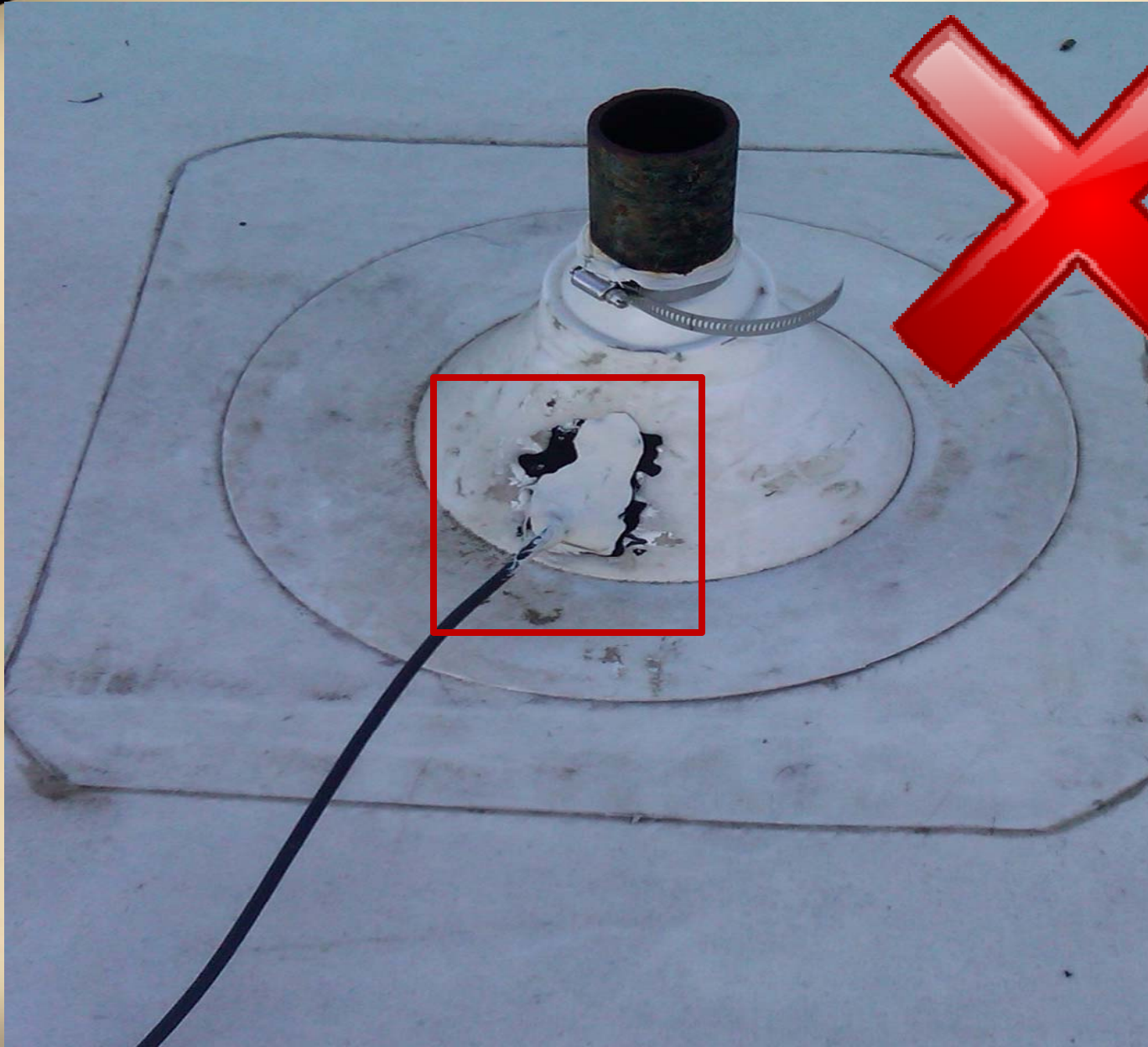


Are these complete?



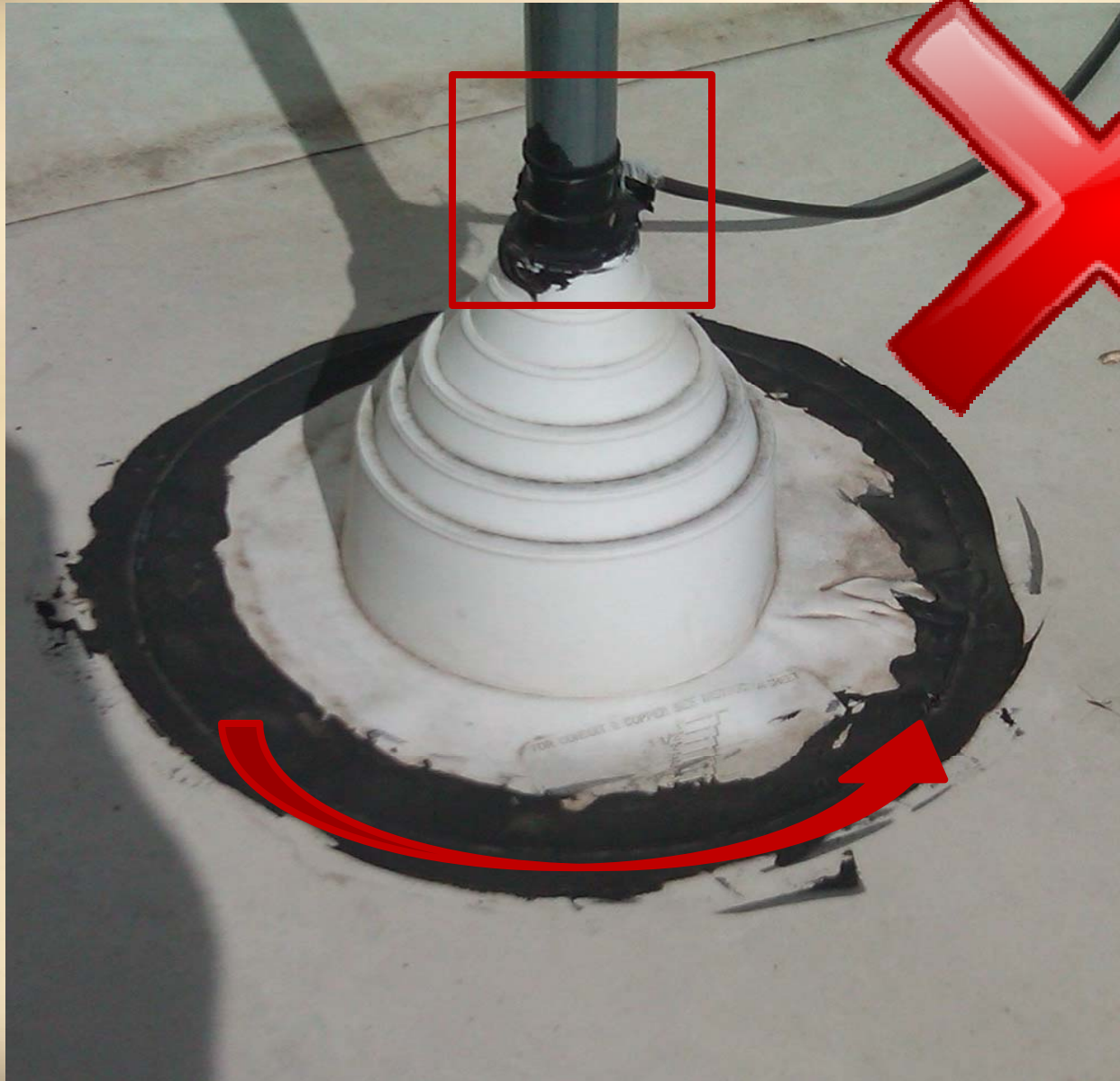


Right or Wrong?





Right or Wrong?



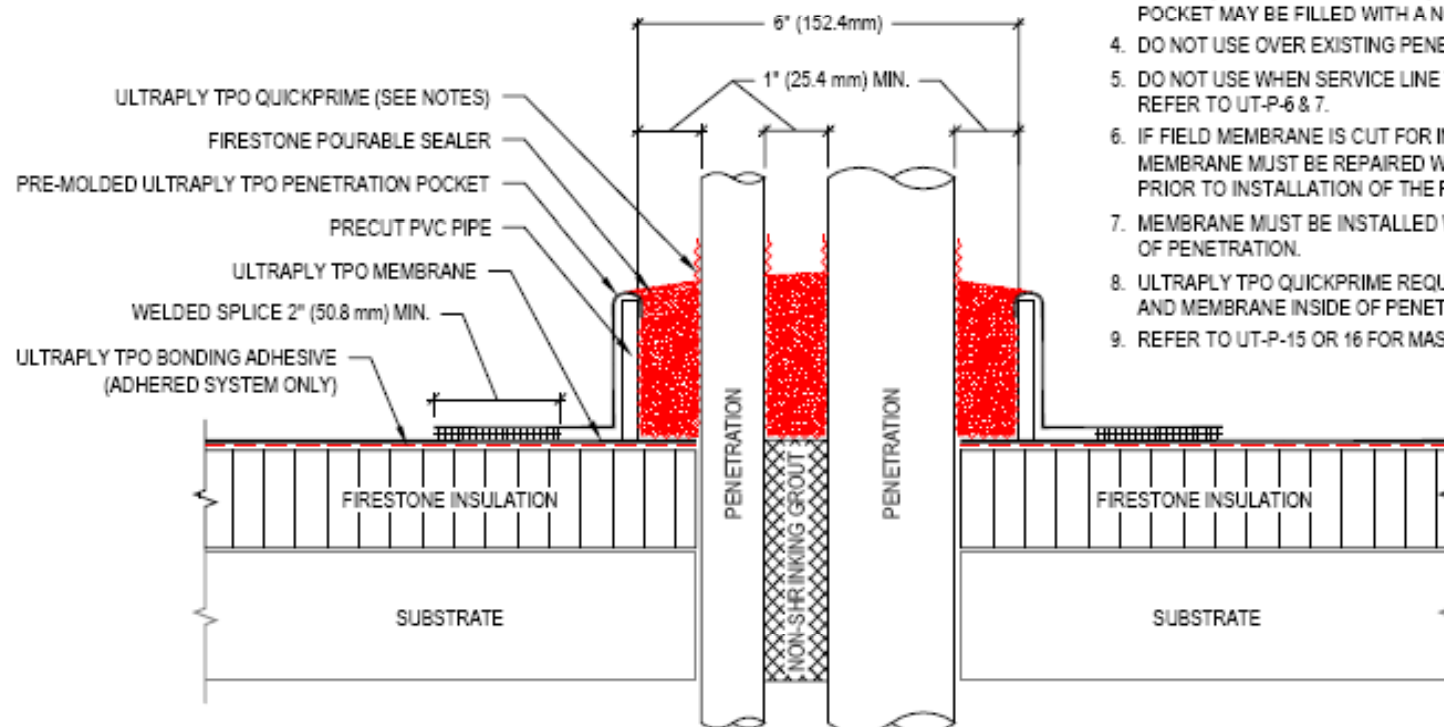


Right or Wrong?





Installing a Penetration Pocket:

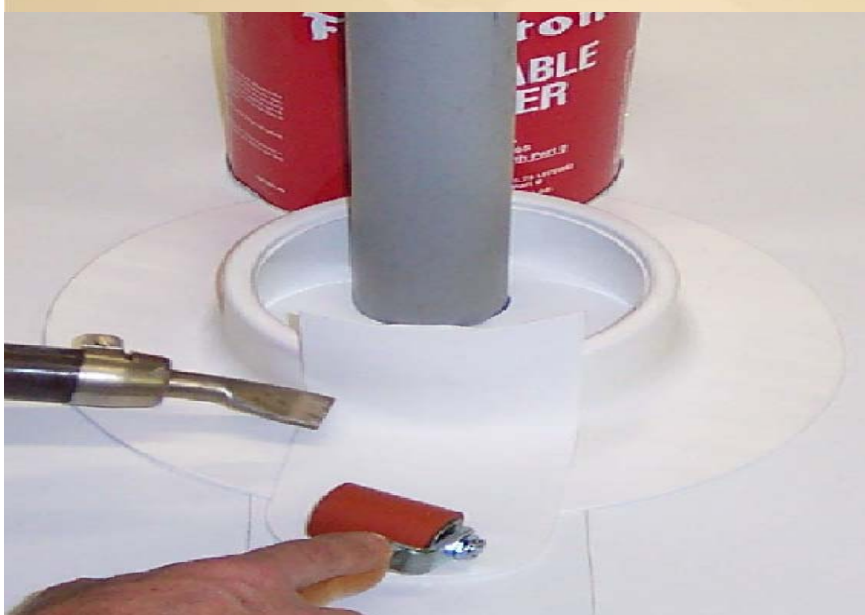
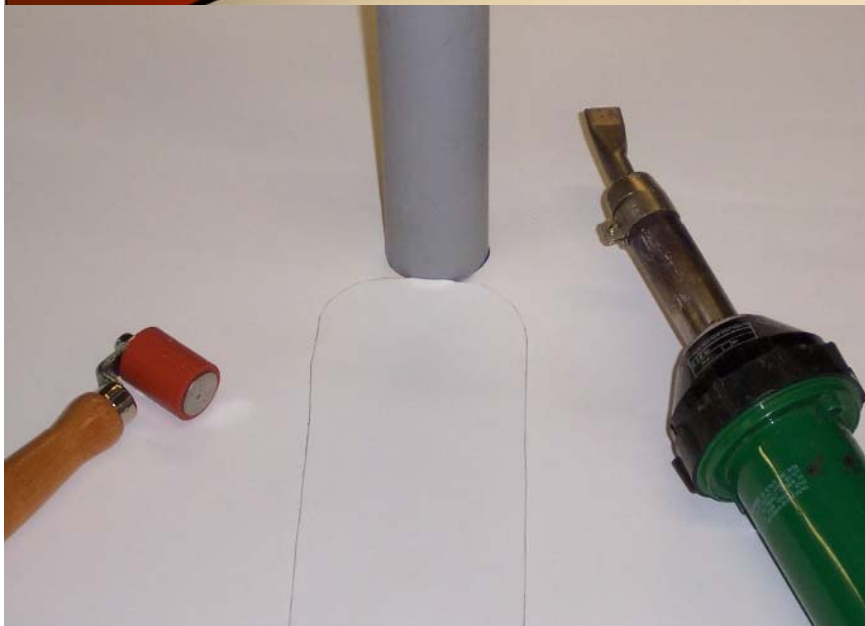


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNDED TO SHED WATER (MINIMUM DEPTH OF 2" (50.8 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON - SHRINKING GROUT.
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & 7.
6. IF FIELD MEMBRANE IS CUT FOR INSTALLATION, THE MEMBRANE MUST BE REPAIRED WITH TPO MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKET.
7. MEMBRANE MUST BE INSTALLED WITHIN 1/2" (12.7 mm) OF PENETRATION.
8. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET.
9. REFER TO UT-P-15 OR 16 FOR MAS.

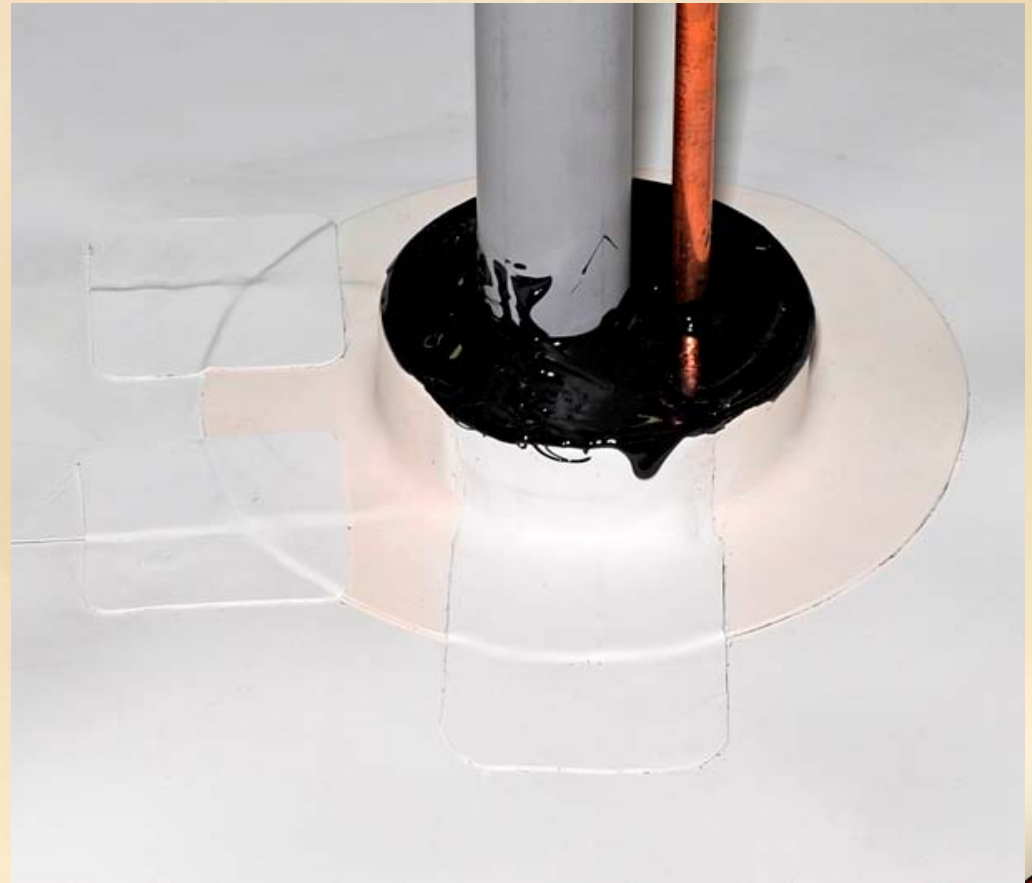


Installing a Penetration Pocket:



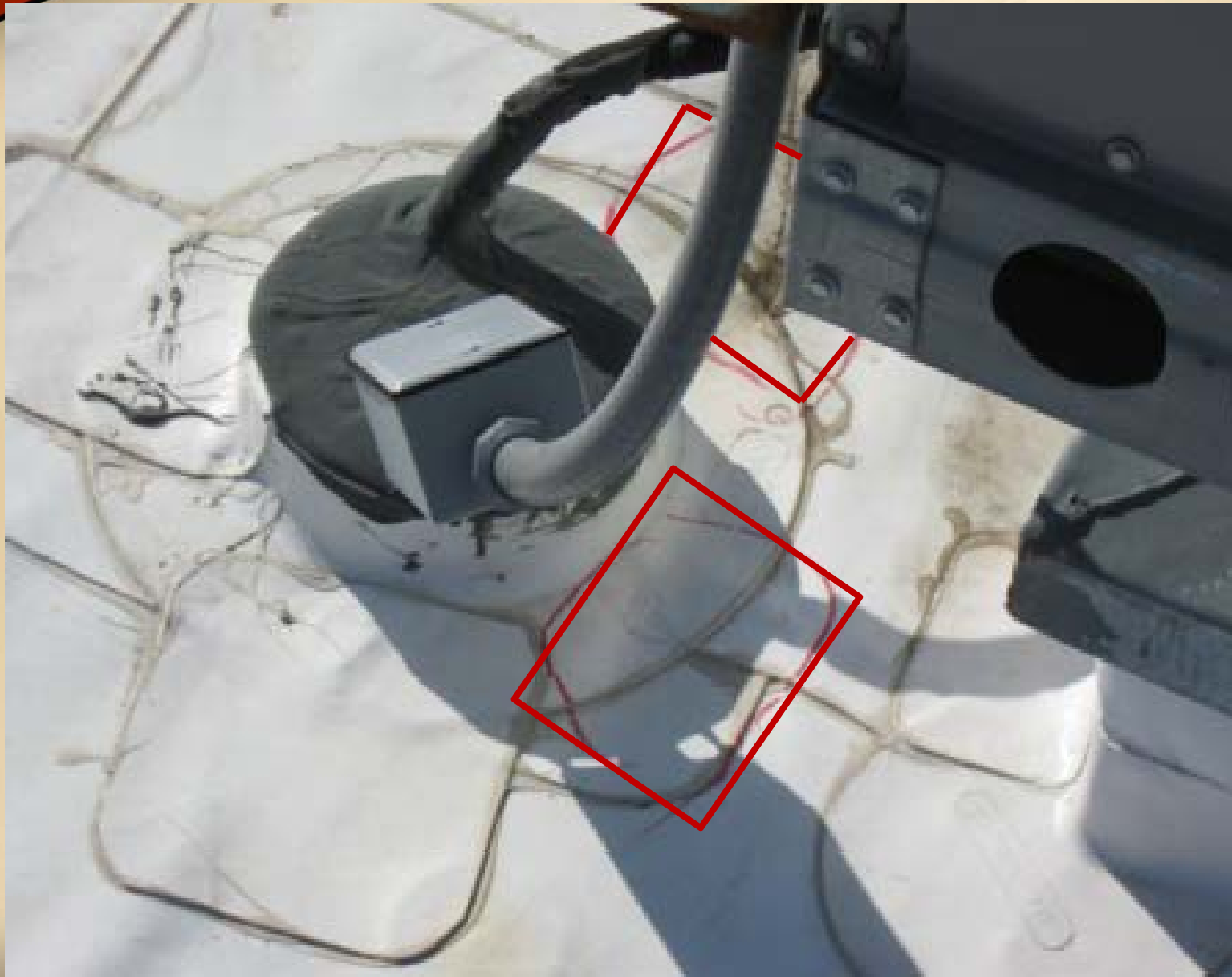


Installing a Penetration Pocket:





Is this complete?





Right or Wrong?



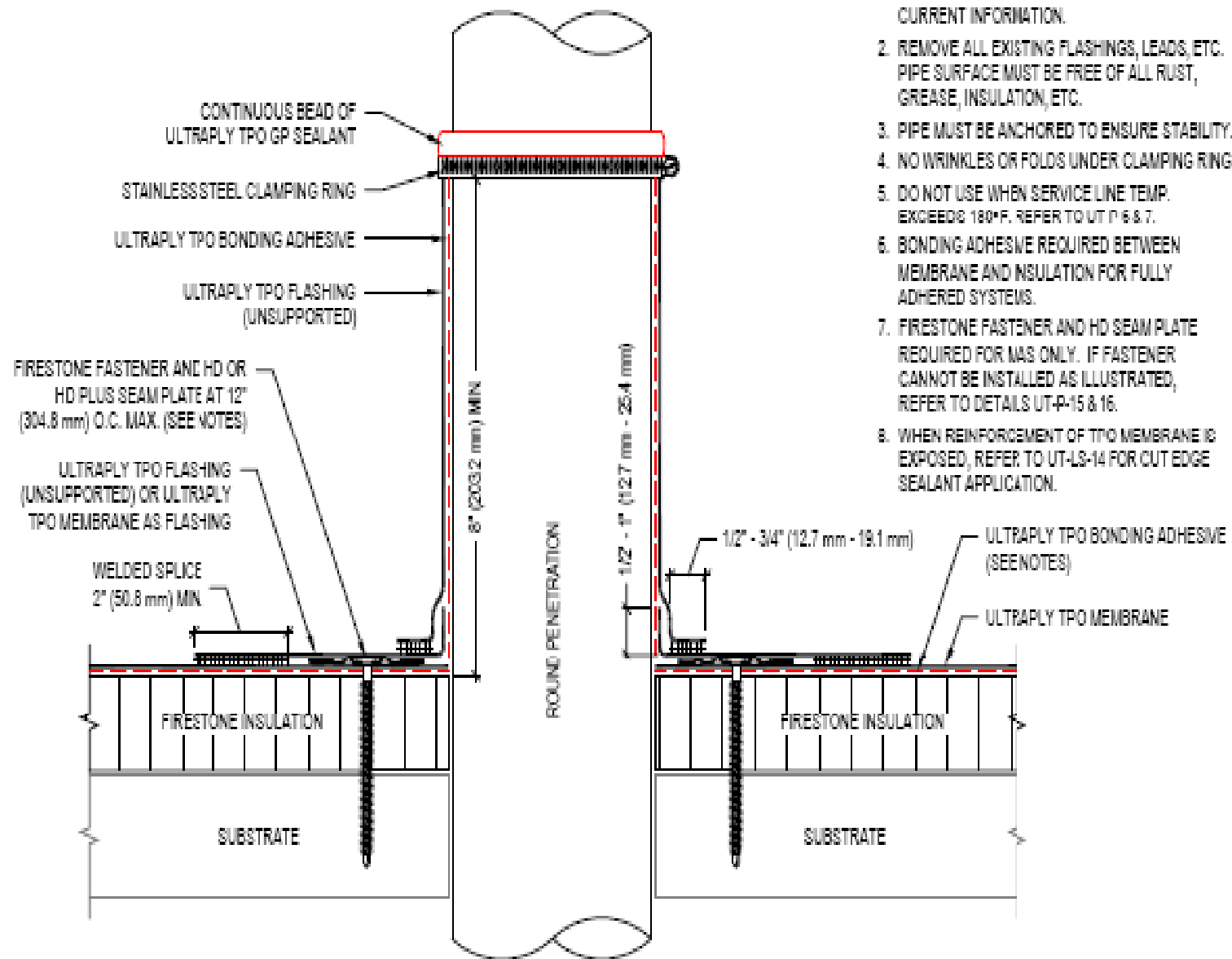


Right or Wrong?





Installing a Field Fabricated Pipe Flashing:



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & 7.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRED FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & 16.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



Installing a Field Fabricated Pipe Flashing:





Right or Wrong?





Right or Wrong?





Right or Wrong?



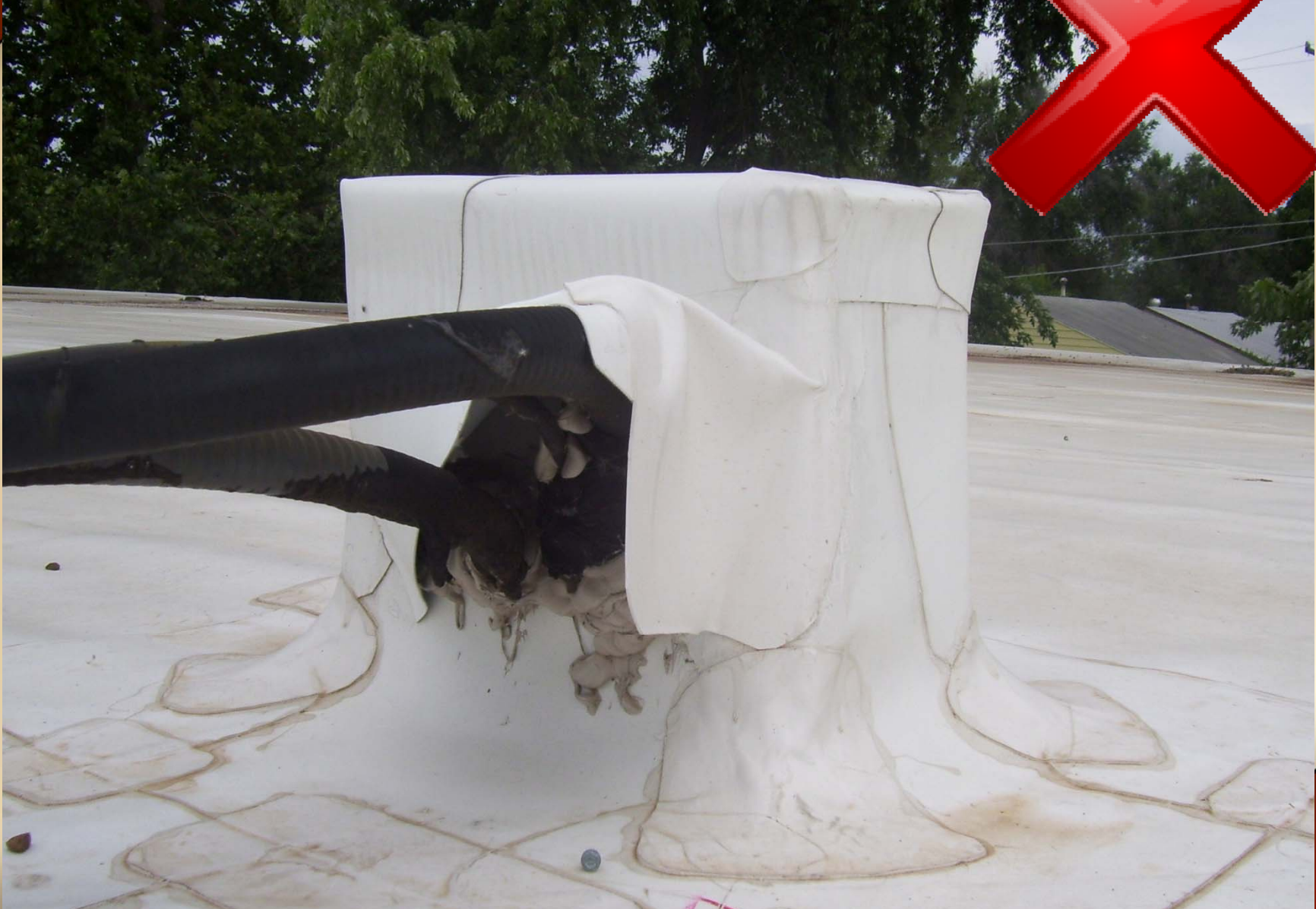


Right or Wrong?





Right or Wrong?

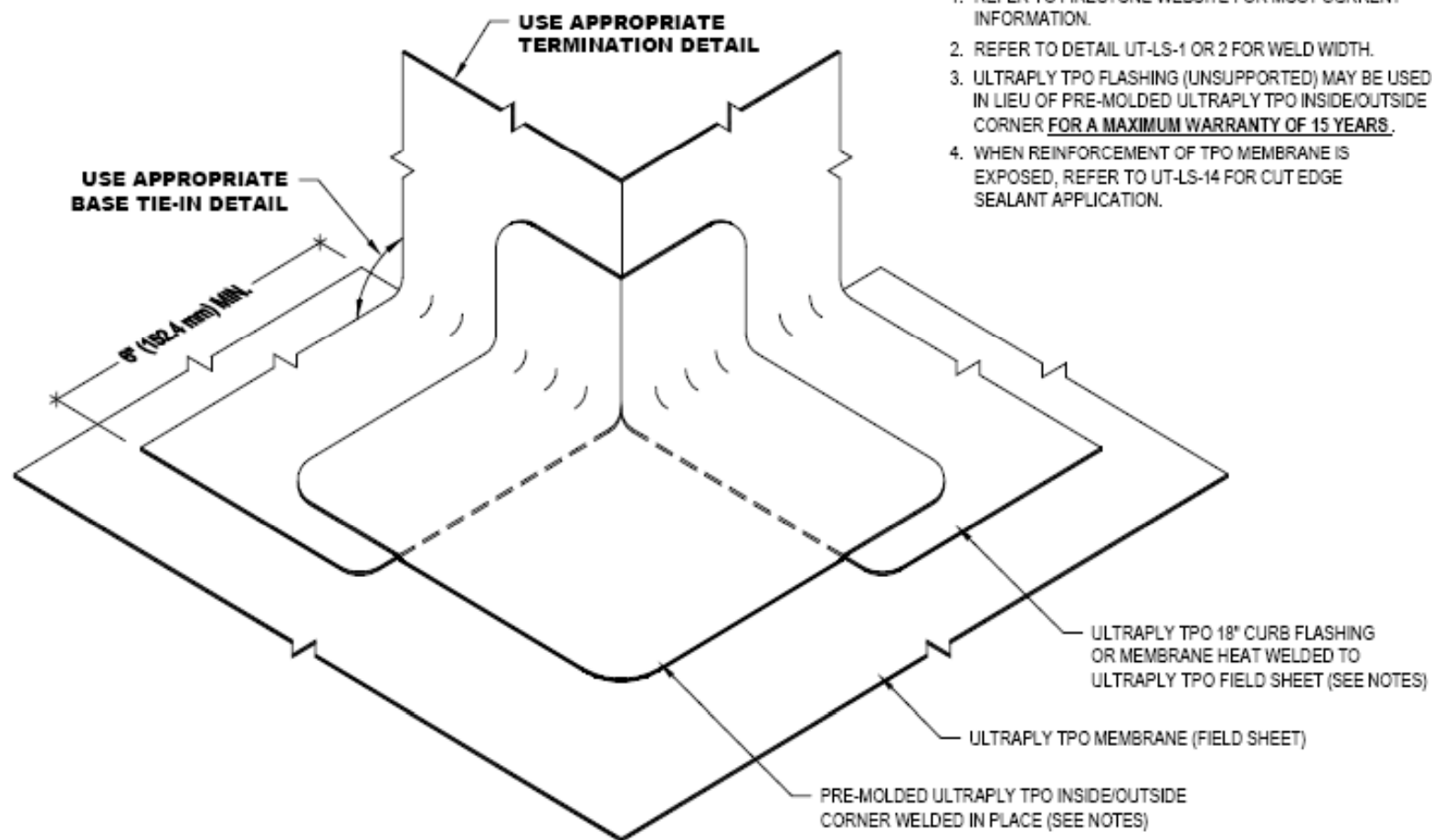




Corners



Installing an Outside Corner:



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER FOR A MAXIMUM WARRANTY OF 15 YEARS.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

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OUTSIDE CORNER

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:

1/1/2006

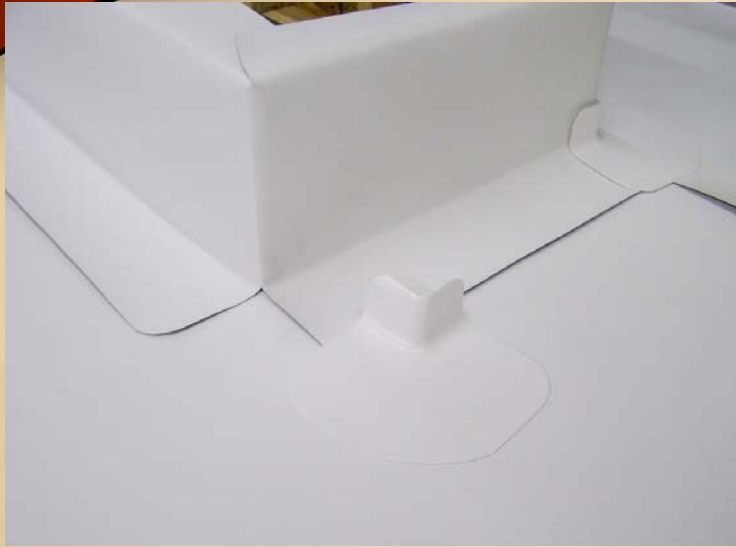
NOT TO SCALE

DETAIL NO.

UT-C-1



Outside Corner Steps:



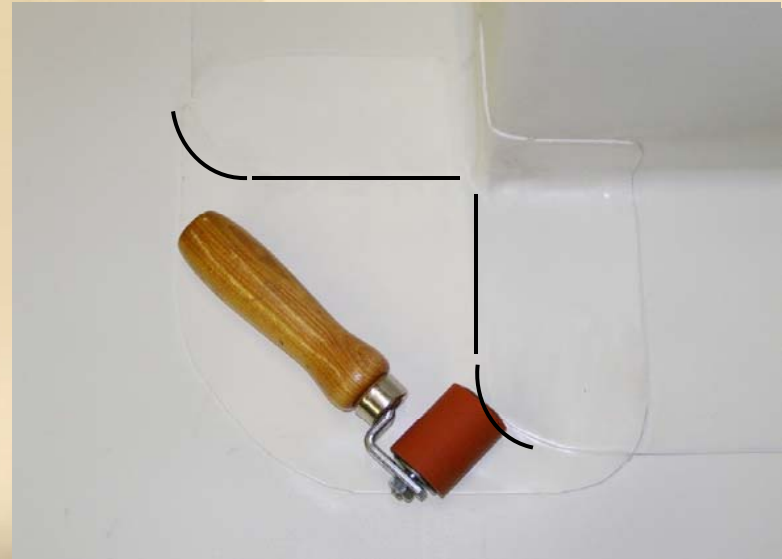
Complete field and curb membrane attachment.



Start welding with pre-molded corner against the curb and work out onto the field sheet.



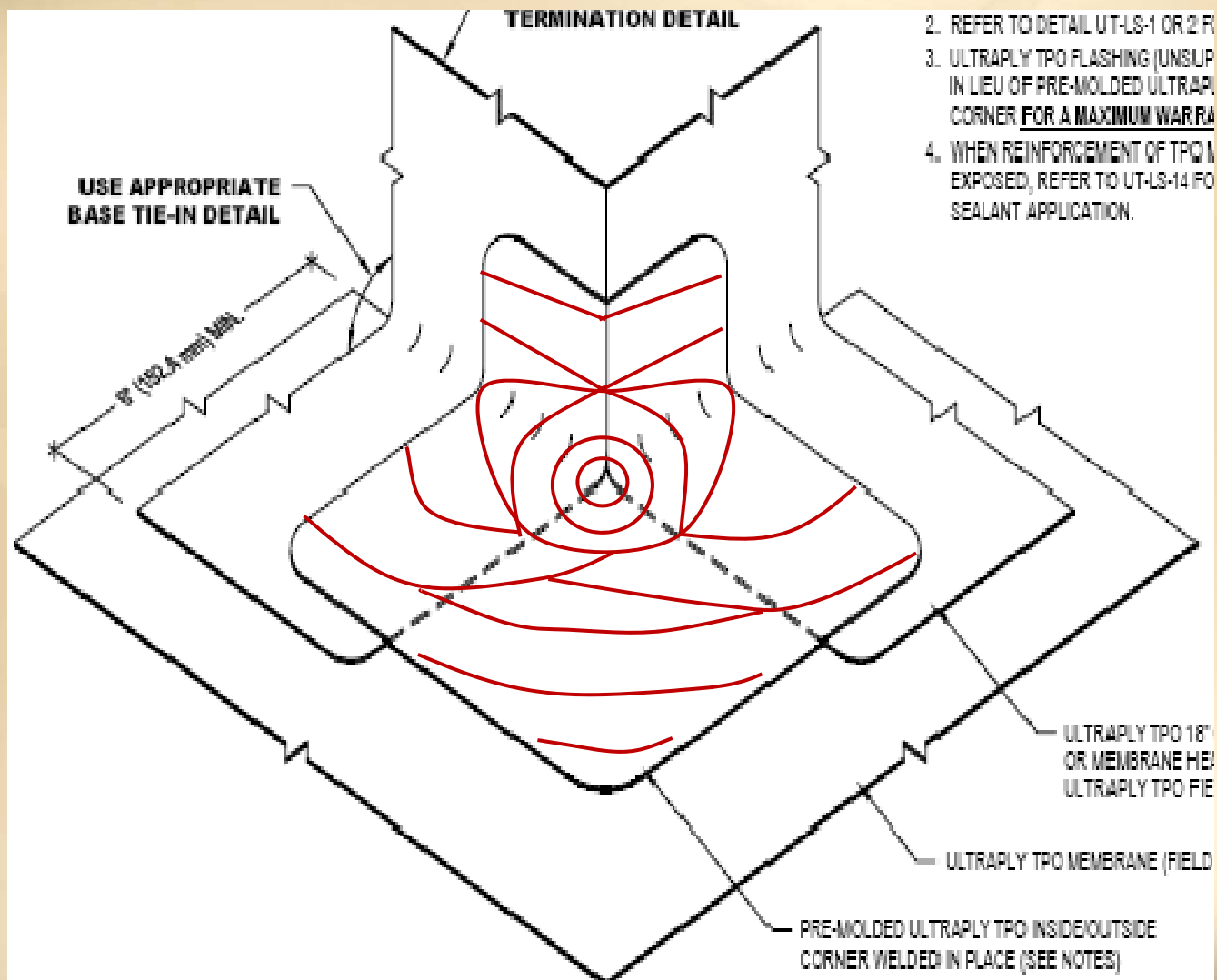
Place welder tip into vertical and work your way out.



Be sure to roll the edges of the curb wrap and flashing.

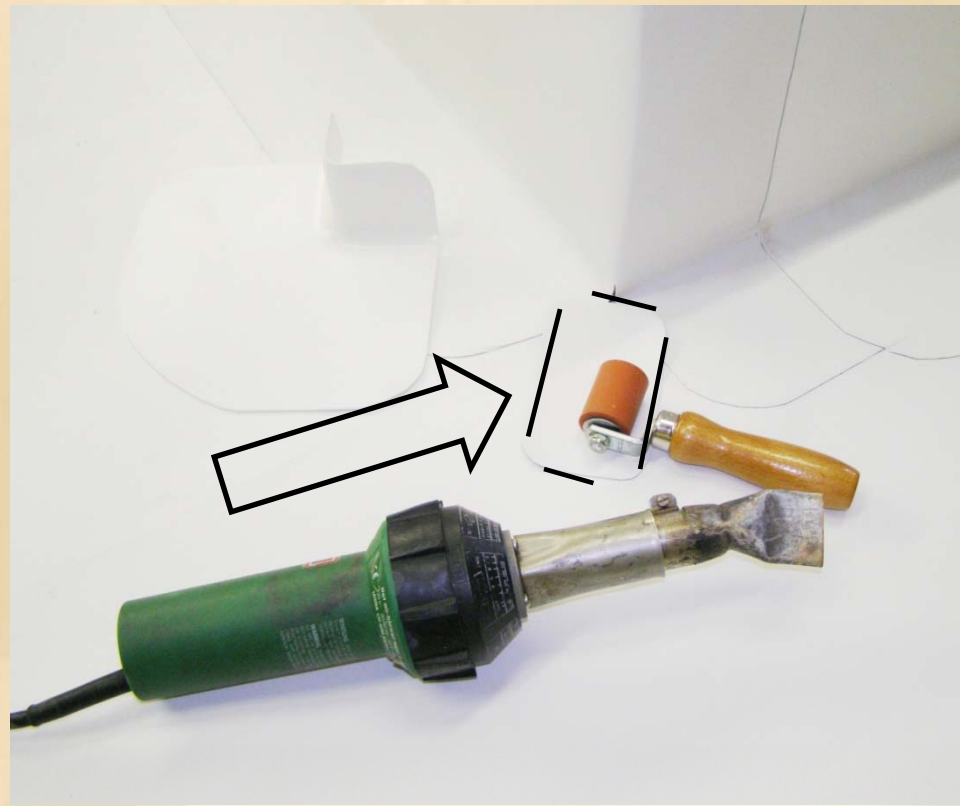
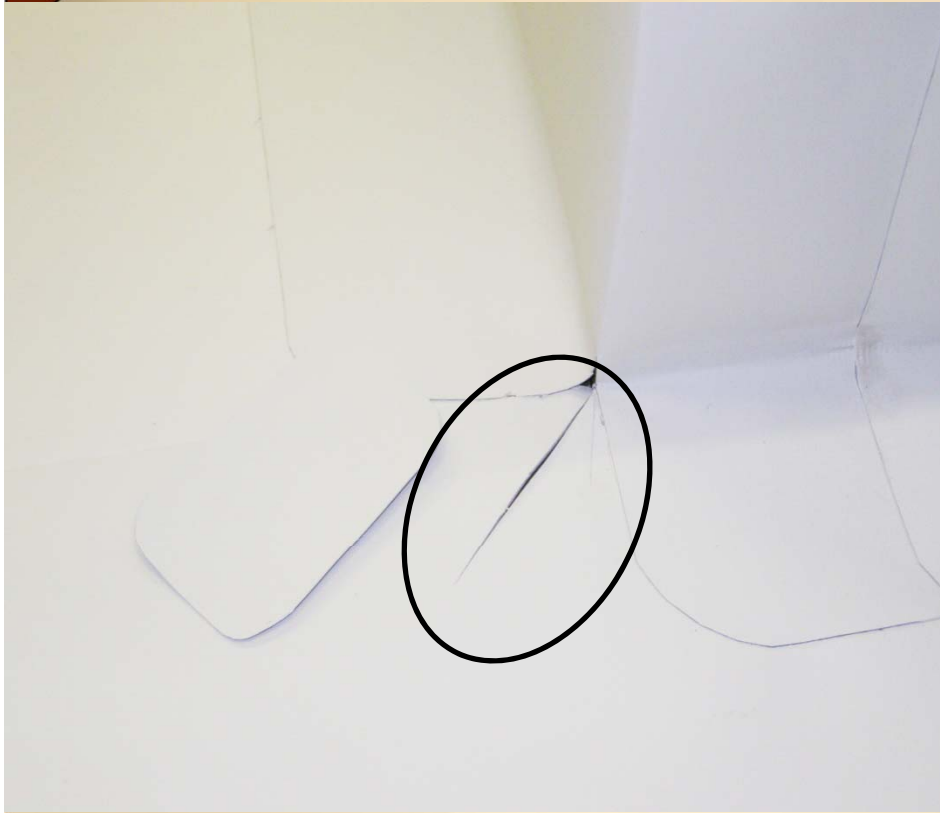


Welding Focus





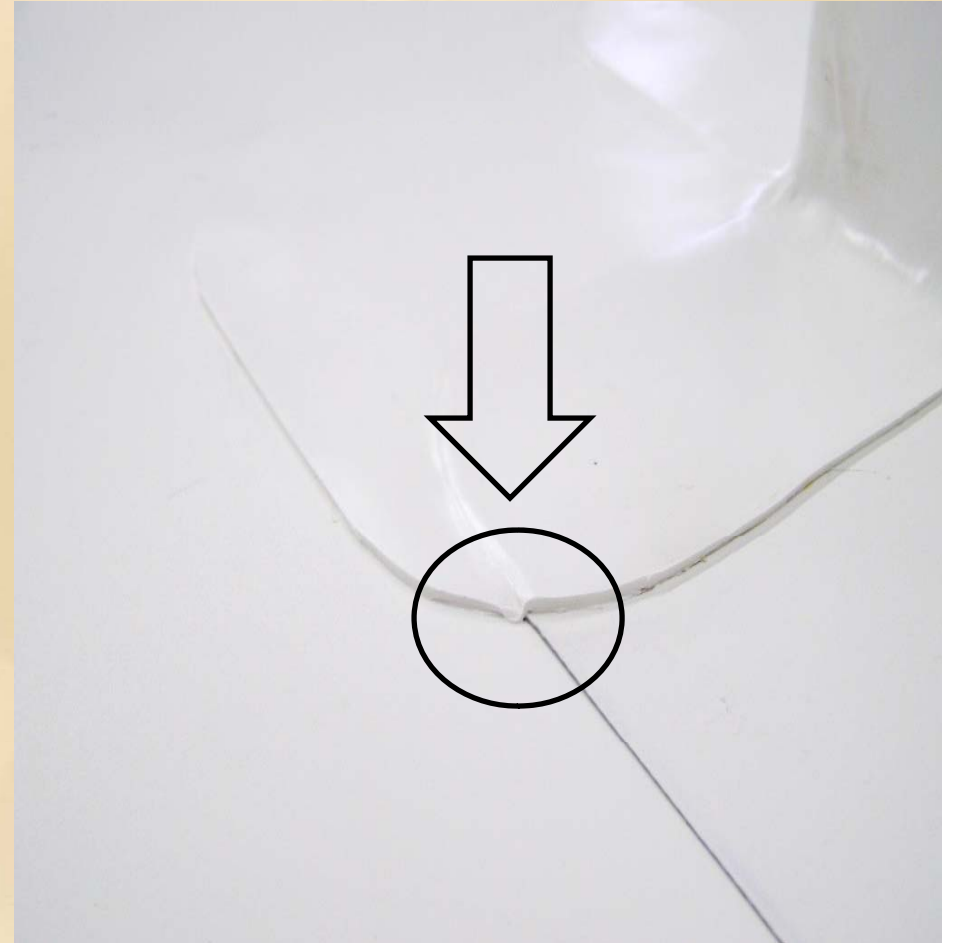
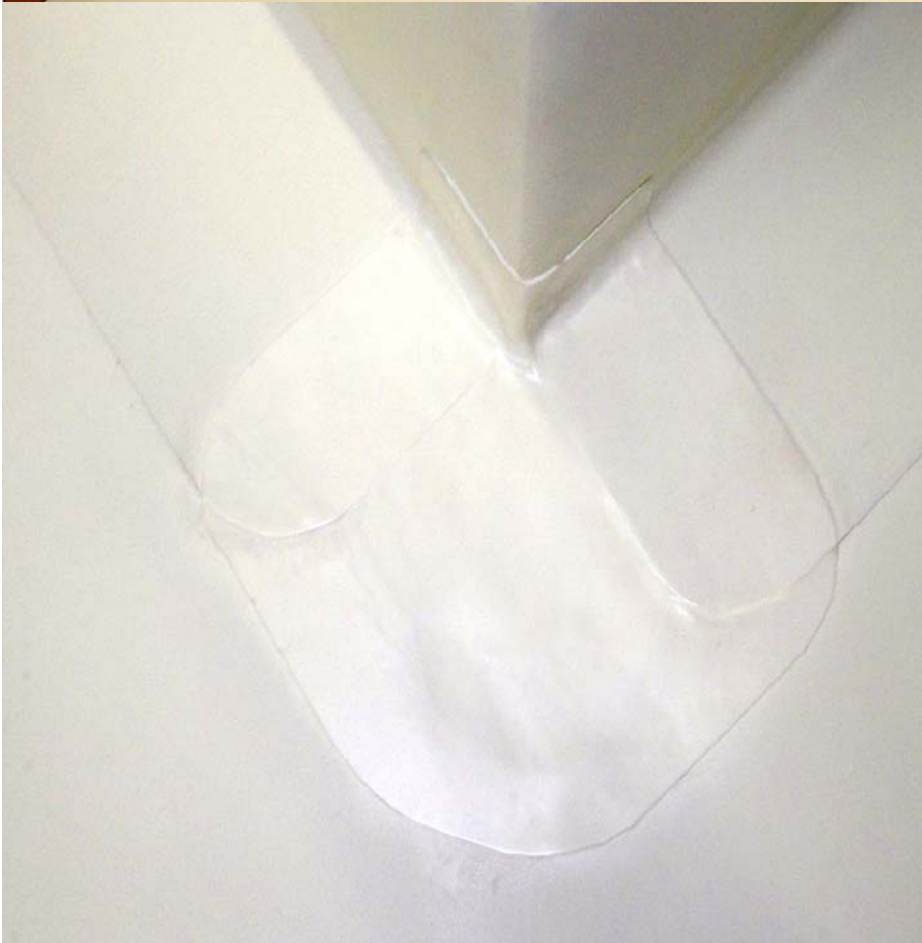
Something to look for...



If the corner cut in the field around the curb extends more than 1" into the field, a patch of TPO membrane is required and then apply the outside corner flashing.

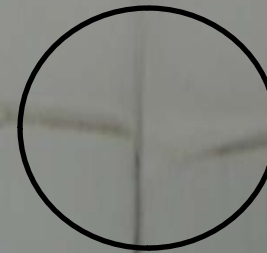
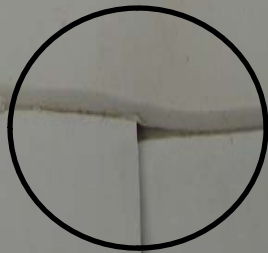


Completed Outside Corner





Things to look for





Right or Wrong?





Right or Wrong?





Right or Wrong?





Installing an Inside Corner:

USE APPROPRIATE TERMINATION DETAIL

PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER WELDED IN PLACE (SEE NOTES)

ULTRAPLY TPO 18" CURB FLASHING OR MEMBRANE HEAT WELDED TO ULTRAPLY TPO FIELD SHEET (SEE NOTES)

ULTRAPLY TPO MEMBRANE (FIELD SHEET)

ULTRAPLY TPO T-JOINT COVER WELDED IN PLACE (SEE NOTES)

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. T-JOINT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4"x4" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.
5. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER FOR A MAXIMUM WARRANTY OF 15 YEARS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

USE APPROP. BASE TIE-IN DETAIL

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INSIDE CORNER WITH CONTINUOUS WALL FLASHING

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

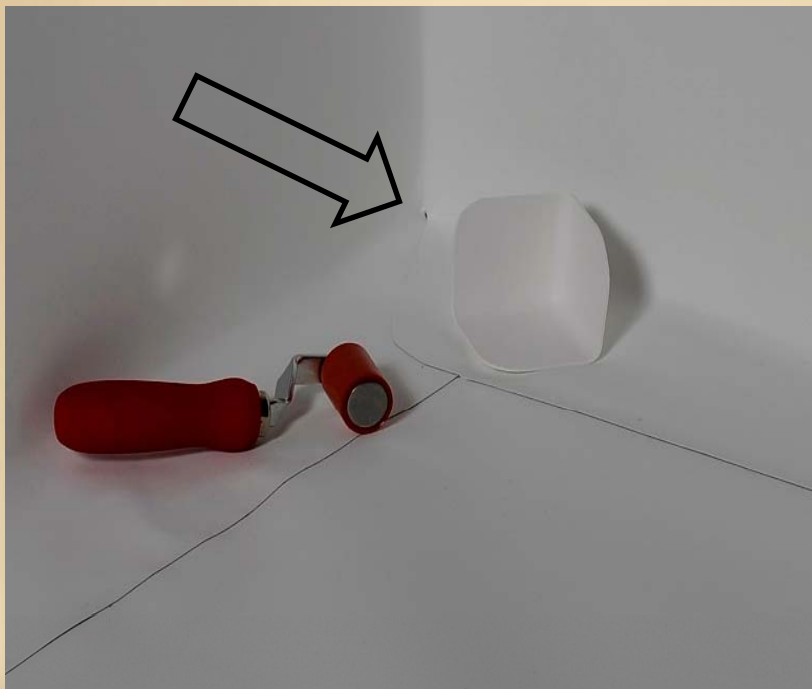
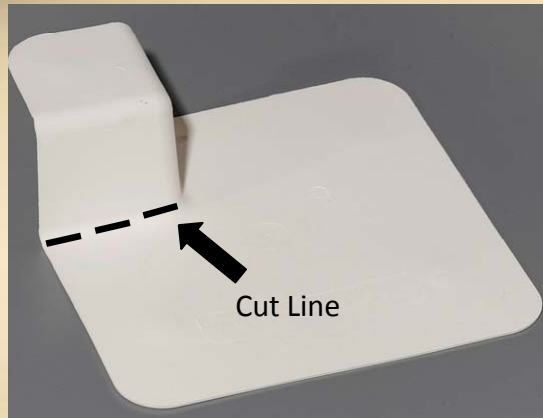
ISSUE / REVISION
DATE:
1/1/2006

NOT TO SCALE

DETAIL NO.
UT-C-4

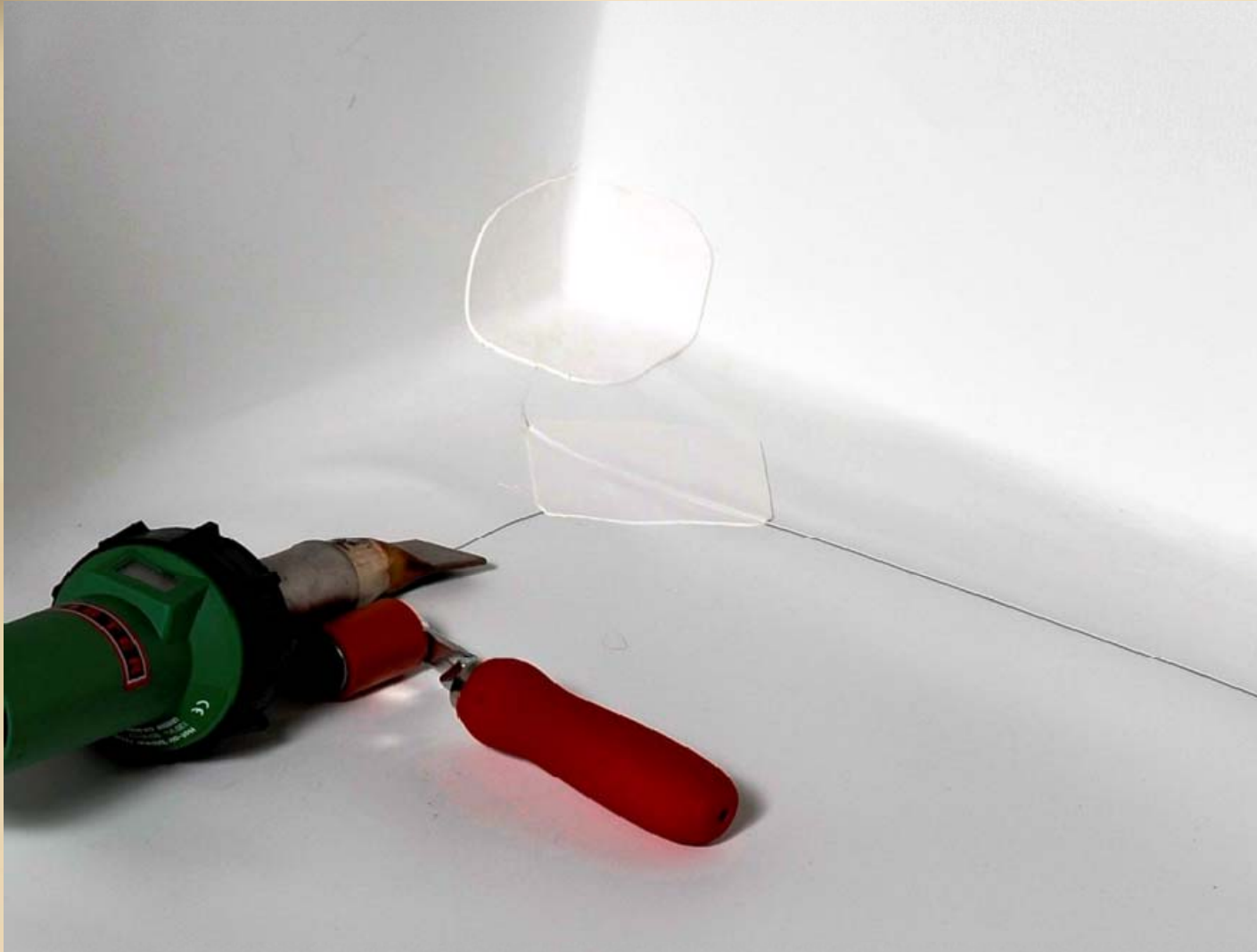


Inside Corner Steps





Installing an Outside Corner:





Right or Wrong?





Right or Wrong?





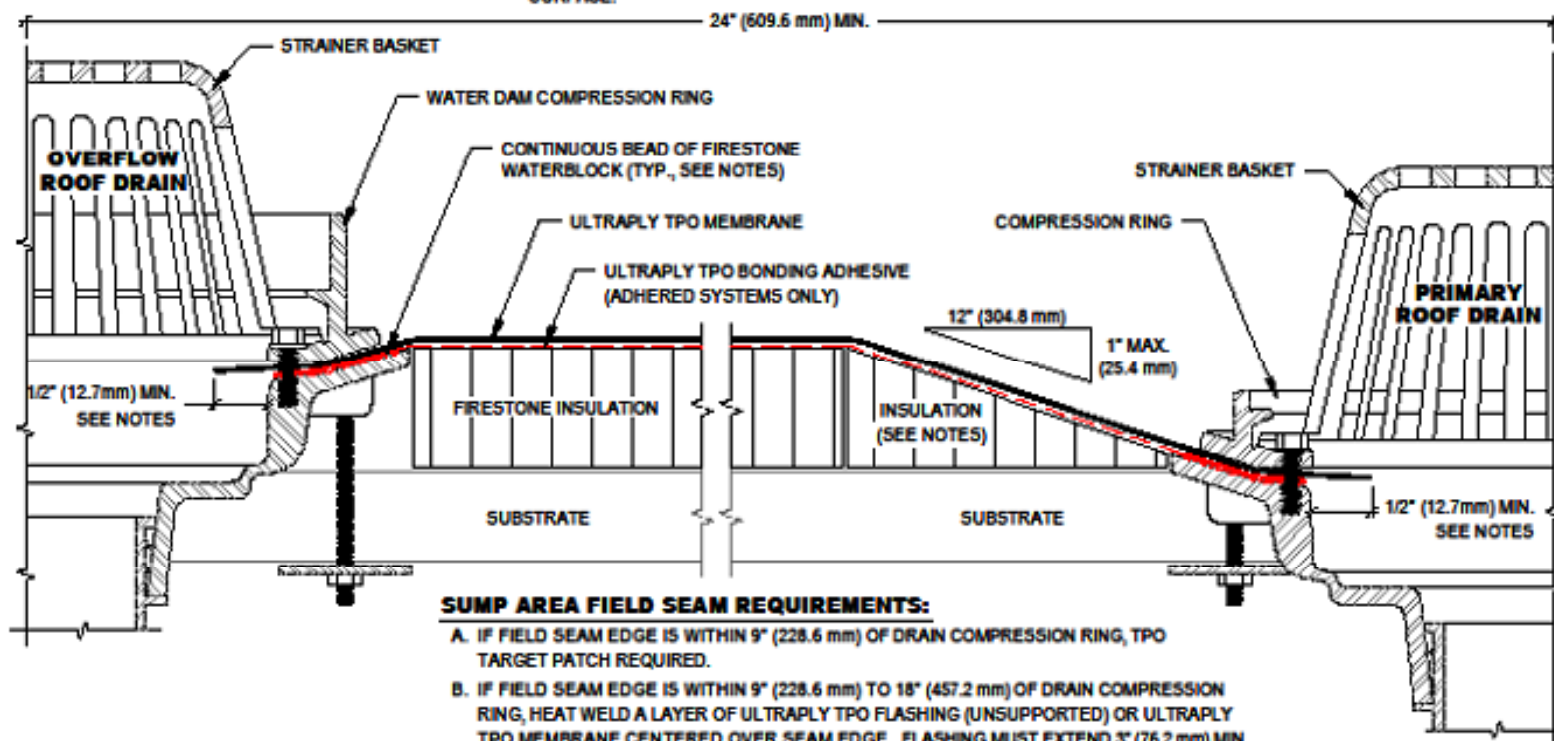
Drains, Scuppers & Roof Edge



Roof Drain and Overflow

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" (12.7 mm) BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
3. INSULATION ADJACENT TO DRAIN TO BE APPROPRIATE FIRESTONE INSULATION WITH APPROPRIATE BONDING SURFACE.
4. FIRESTONE WATERBLOCK MIN. OF 1/2 OF 10 OZ (295 ml) TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
5. IN REROOF APPLICATIONS:
 - REMOVE EXISTING FLASHINGS DOWN TO METAL BOWL
 - REPAIR OR REPLACE BROKEN DRAIN COMPONENTS
 - DRILL AND TAP BROKEN DRAIN BOLTS AND REPLACE IF NECESSARY.



SUMP AREA FIELD SEAM REQUIREMENTS:

- A. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) OF DRAIN COMPRESSION RING, TPO TARGET PATCH REQUIRED.
- B. IF FIELD SEAM EDGE IS WITHIN 9" (228.6 mm) TO 18" (457.2 mm) OF DRAIN COMPRESSION RING, HEAT WELD A LAYER OF ULTRAPLY TPO FLASHING (UNSUPPORTED) OR ULTRAPLY TPO MEMBRANE CENTERED OVER SEAM EDGE. FLASHING MUST EXTEND 3" (76.2 mm) MIN. BEYOND EDGE OF SUMP.

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ROOF DRAIN WITH OVERFLOW ROOF DRAIN

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:
1/1/2006

NOT TO SCALE

DETAIL NO.

UT-D-4



Properly Sloped Drain and Overflow



What's Wrong?



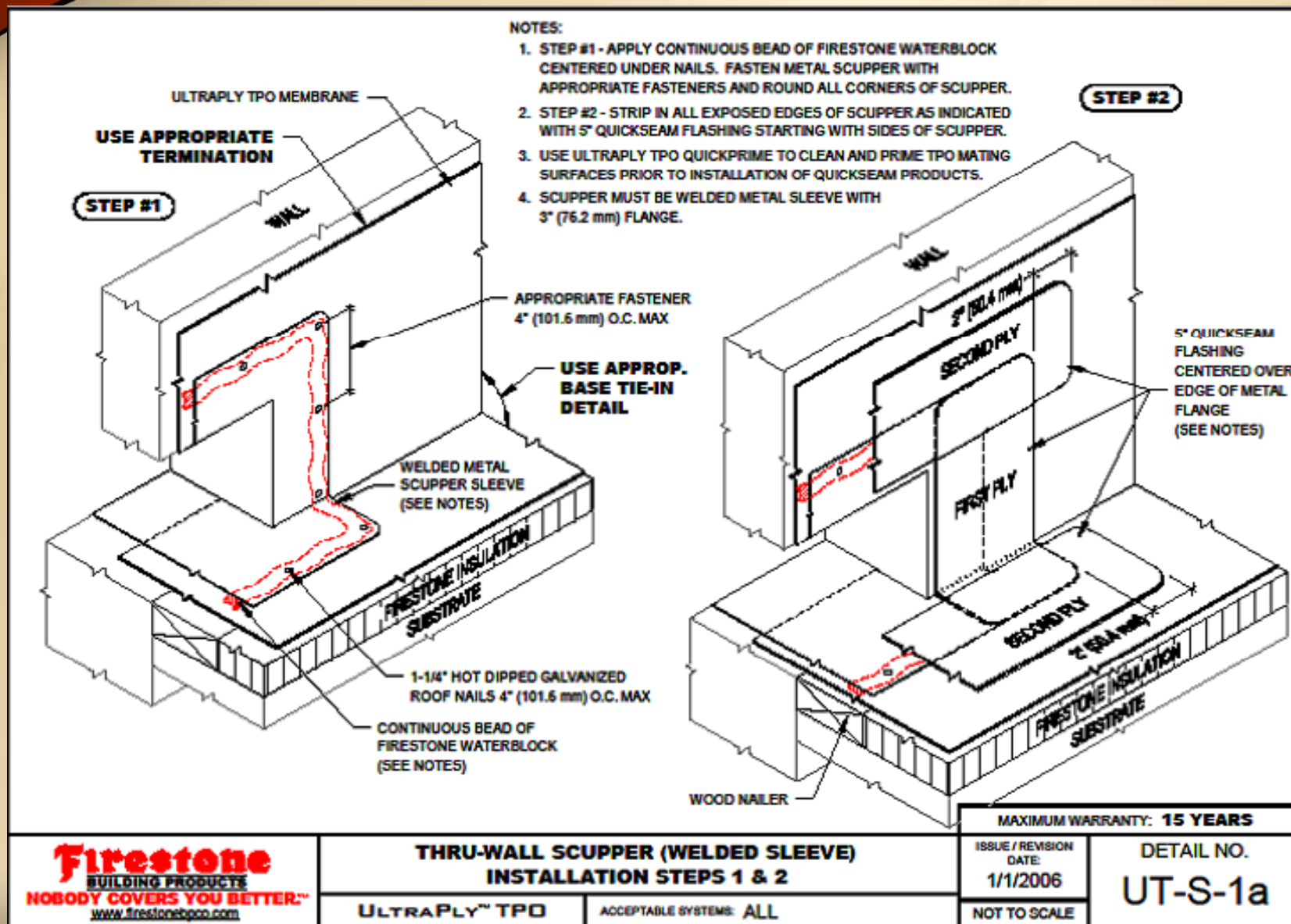


Roof Drain Tips

- All drain bolts must be in place and tight.
- Firestone Waterblock must be present between the base of the drain and the membrane. Rule of Thumb: 1 tube per drain.
- Slope should not exceed 1":12" for standard UltraPly TPO.
- Field seams within 9" require a target patch.
- Field seams within 9"-18" must be stripped in.
- Hole in membrane should extend a minimum of ½" beyond the clamping ring and should **NOT** be smaller than the diameter of the drain pipe.



Scupper Steps 1 & 2

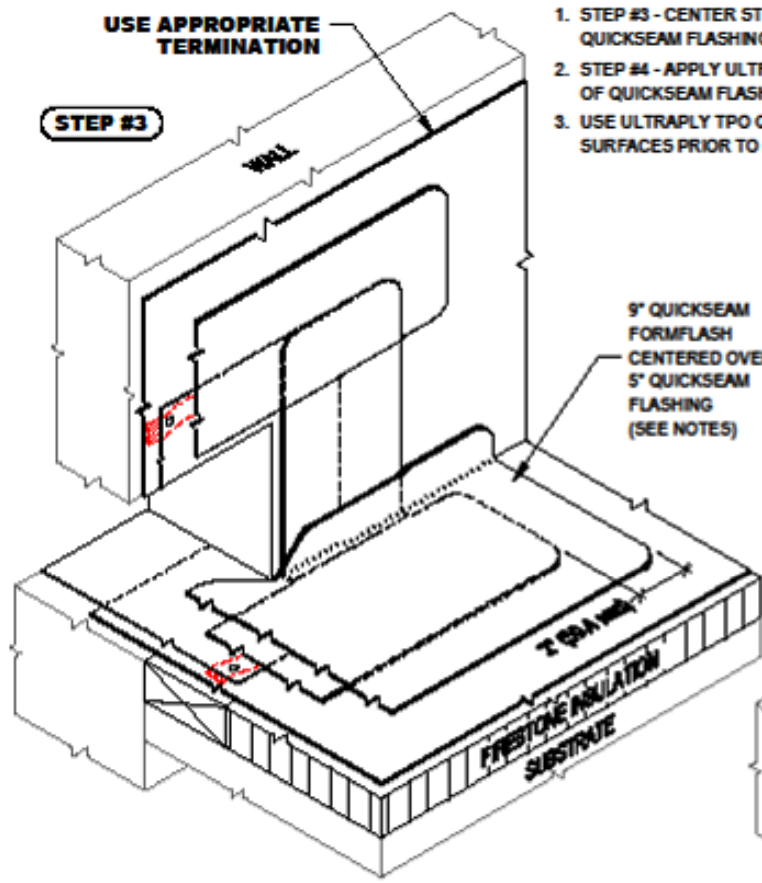




Scupper Steps 3 & 4

USE APPROPRIATE TERMINATION

STEP #3

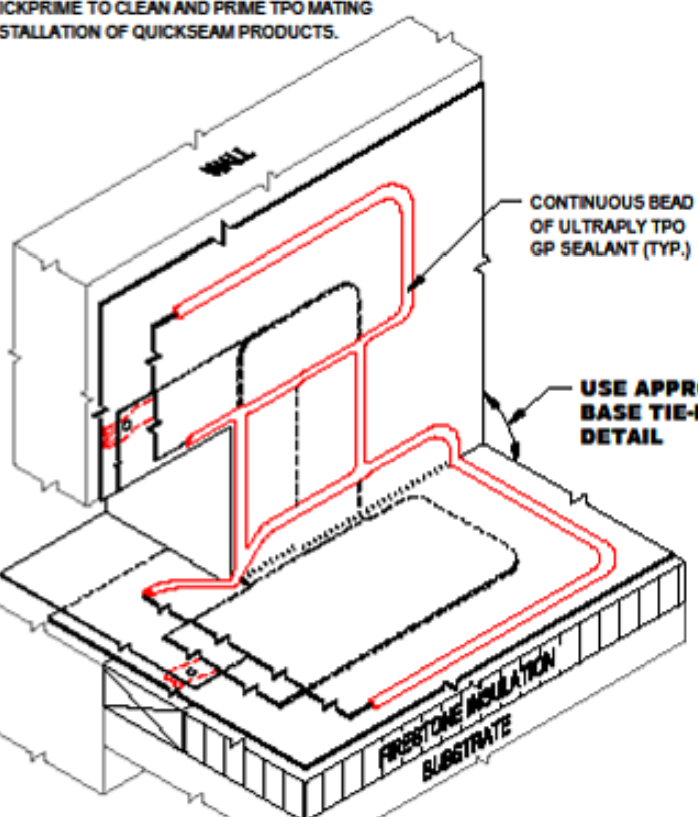


9" QUICKSEAM FORMFLASH CENTERED OVER 5" QUICKSEAM FLASHING (SEE NOTES)

NOTES:

1. STEP #3 - CENTER STRIP OF 9" QUICKSEAM FORMFLASH OVER 5" QUICKSEAM FLASHING AT BASE OF SCUPPER AS SHOWN.
2. STEP #4 - APPLY ULTRAPLY TPO GP SEALANT TO PERIMETER OF QUICKSEAM FLASHINGS.
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

STEP #4



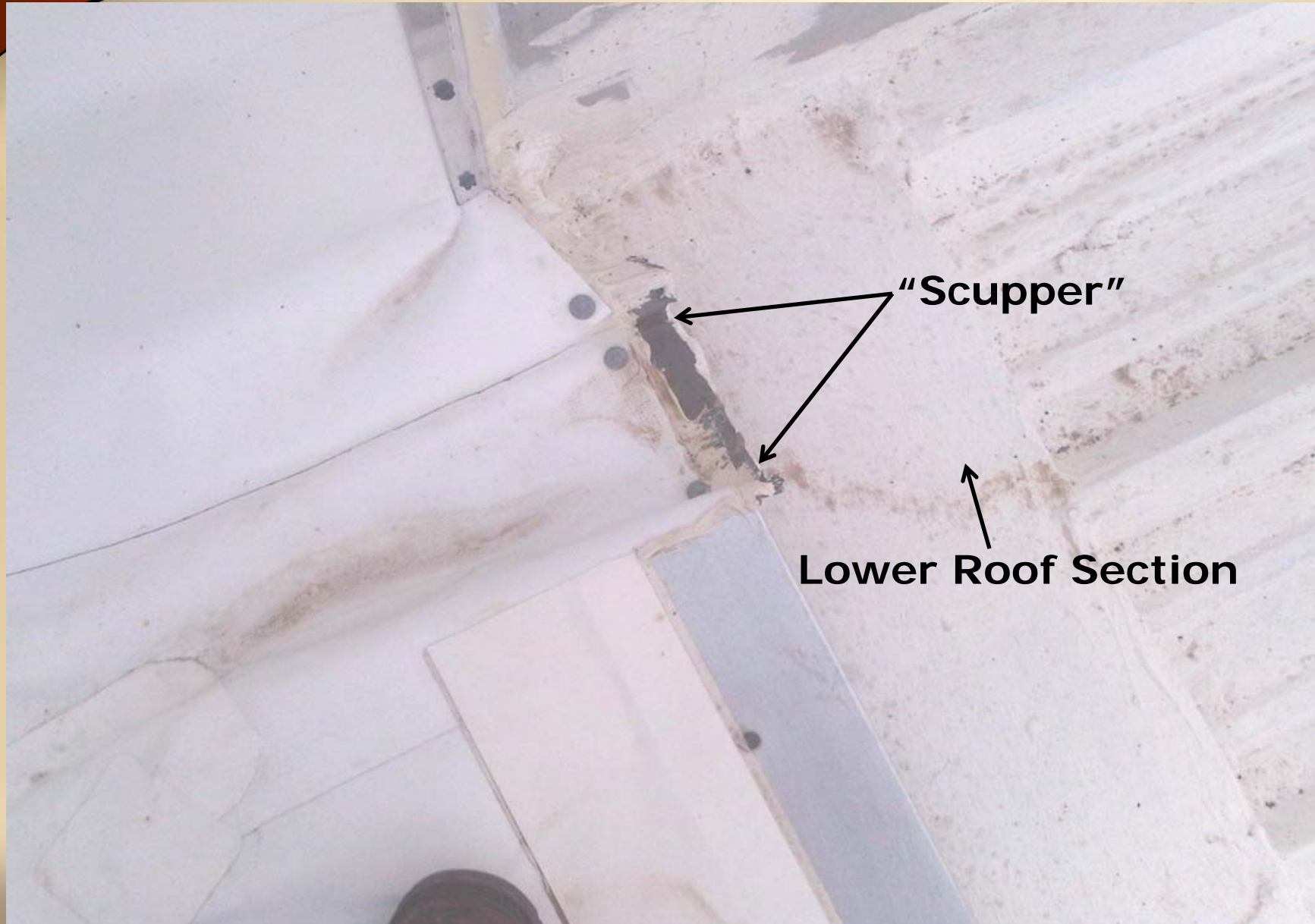
CONTINUOUS BEAD OF ULTRAPLY TPO GP SEALANT (TYP.)

USE APPROP. BASE TIE-IN DETAIL

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER. www.firestonetpco.com	THRU-WALL SCUPPER (WELDED SLEEVE) INSTALLATION STEPS 3 & 4		MAXIMUM WARRANTY: 15 YEARS	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 1/1/2006	DETAIL NO. UT-S-1b
			NOT TO SCALE	



How many things are wrong?



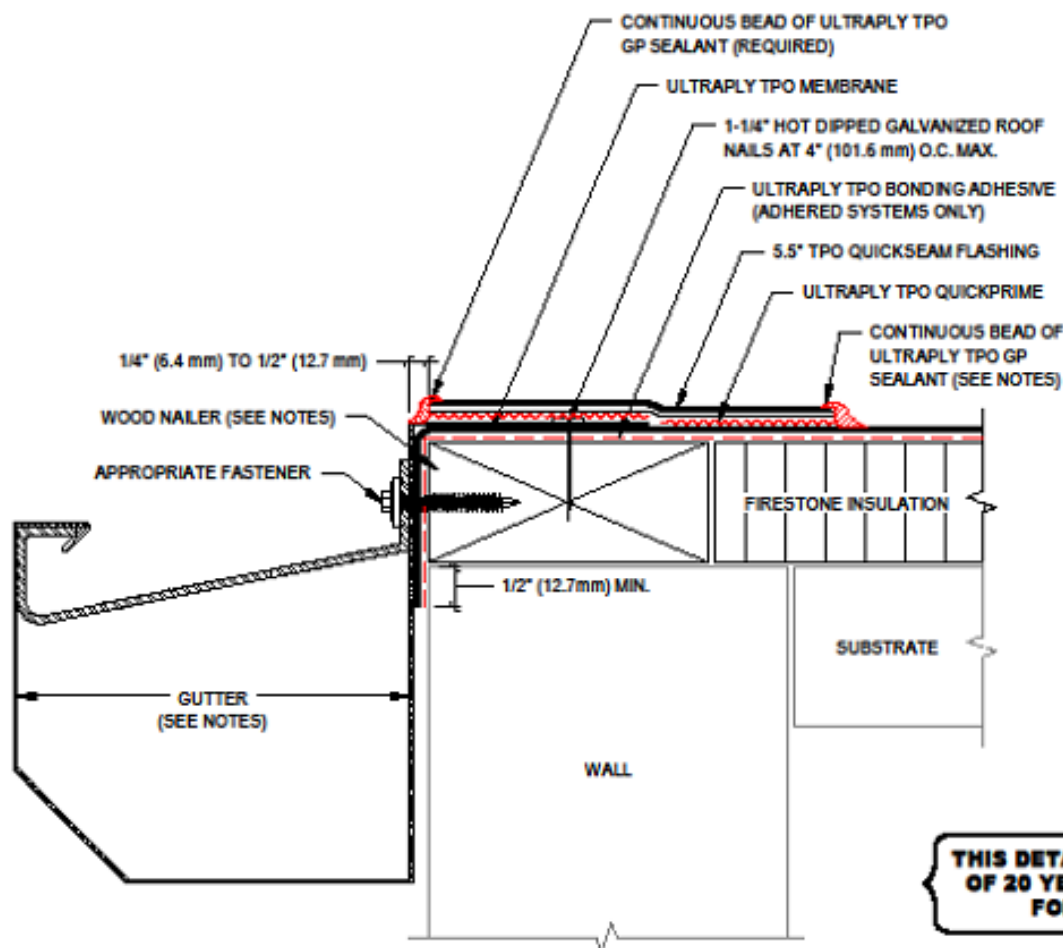


Scupper Tips

- Use Single-Ply QuickPrime Primer to clean and prime all surfaces where UltraPly QuickSeam products will be applied.
- Apply a continuous bead of Firestone Waterblock behind the metal flanges where the scupper will be nailed.
- Pay extra attention to the sequence of applying the ply's of UltraPly TPO QuickSeam.
- A continuous bead of UltraPly TPO GP Sealant is required on all edges.



Roof Edge with a Gutter



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
3. ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" (6.4 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
5. ANCHOR GUTTER IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
7. FLANGE OF METAL GUTTER MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
8. CONTACT FIRESTONE ROOFING SOLUTIONS FOR BALLASTED ROOF SYSTEMS.
9. IF THE FLANGE OF THE METAL GUTTER IS NOT COMPLETELY COVERED WITH QUICKSEAM FLASHING, THEN AN ADDITIONAL PIECE OF QUICKSEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES. REFER TO UT-RE-27.

THIS DETAIL IS APPROVED FOR A MAXIMUM OF 20 YEARS. REFER TO DETAIL UT-RE-16 FOR 25 YEAR REQUIREMENTS.

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ROOF EDGE GUTTER WITH FLANGE

ULTRAPLY[™] TPO

ACCEPTABLE SYSTEMS: ADHERED, MAS

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:

5/1/2010

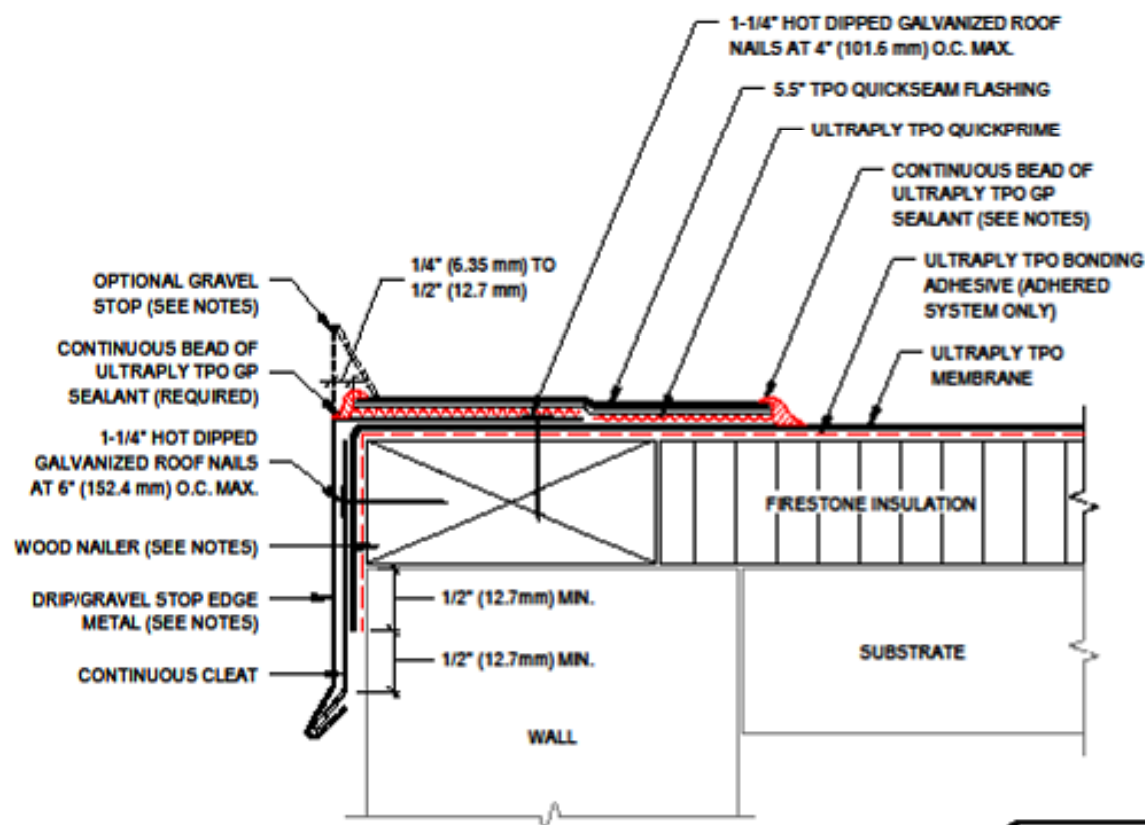
NOT TO SCALE

DETAIL NO.

UT-RE-15



Roof Edge with Fascia



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL METAL WORK TO MANUFACTURER'S REQUIREMENTS OR SMACNA RECOMMENDATIONS. IF SHOP FABRICATED METAL EDGE IS USED IT MUST MEET ANSISPRI E5-1 OR AN FM STANDARD.
3. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
5. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
6. ON BALLASTED ROOFS, GRAVEL STOP HEIGHT MUST MEET OR EXCEED BALLAST OR PAVES HEIGHT (2" (50.8 mm) MIN. ABOVE ROOF SURFACE).
7. IF THE FLANGE OF THE METAL EDGE IS NOT COMPLETELY COVERED WITH QUICKSEAM FLASHING, THEN AN ADDITIONAL PIECE OF QUICKSEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES. REFER TO UT-RE-27.

THIS DETAIL IS APPROVED FOR A MAXIMUM OF 20 YEARS. REFER TO DETAIL UT-RE-21 FOR 25 YEAR REQUIREMENTS.

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ROOF EDGE WITH FASCIA METAL BY OTHERS

ULTRAPLY[™] TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:

5/1/2010

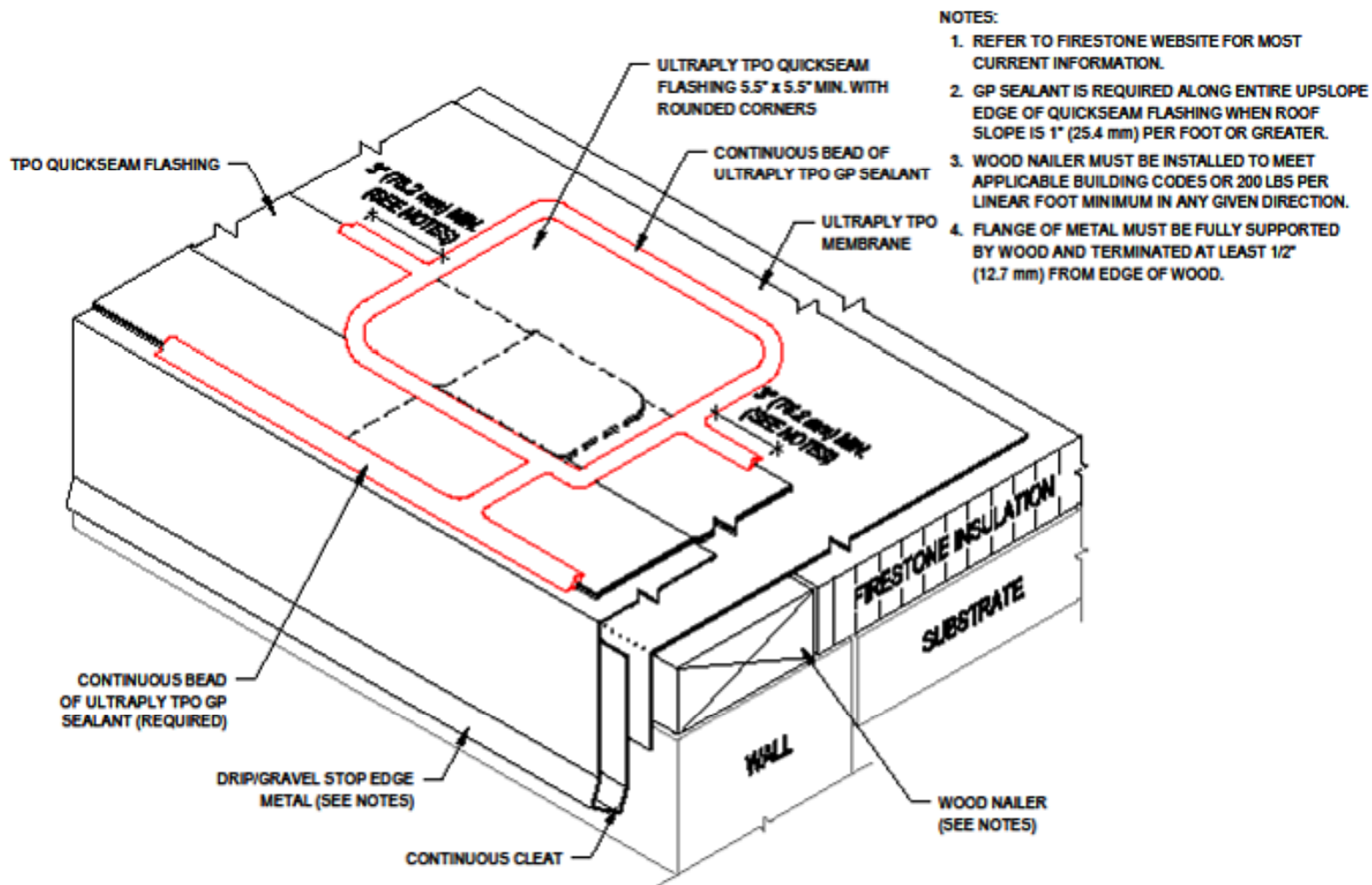
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UT-RE-20

NOT TO SCALE



QuickSeam End Lap Splice



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.

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ROOF EDGE WITH TPO QUICKSEAM FLASHING END SPLICE OVERLAP

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

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NOT TO SCALE

DETAIL NO.

UT-RE-24

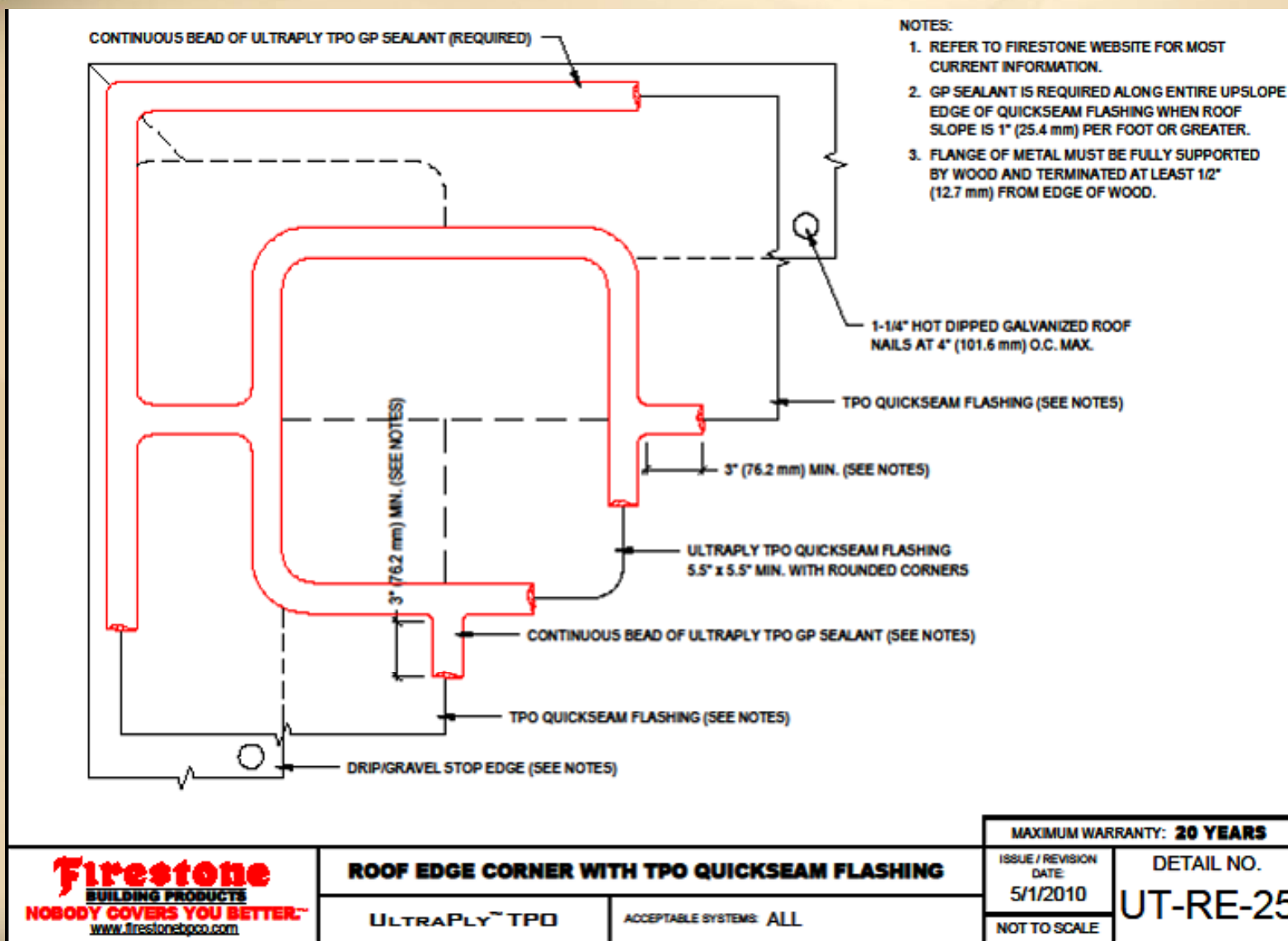


QuickSeam End Lap Splice



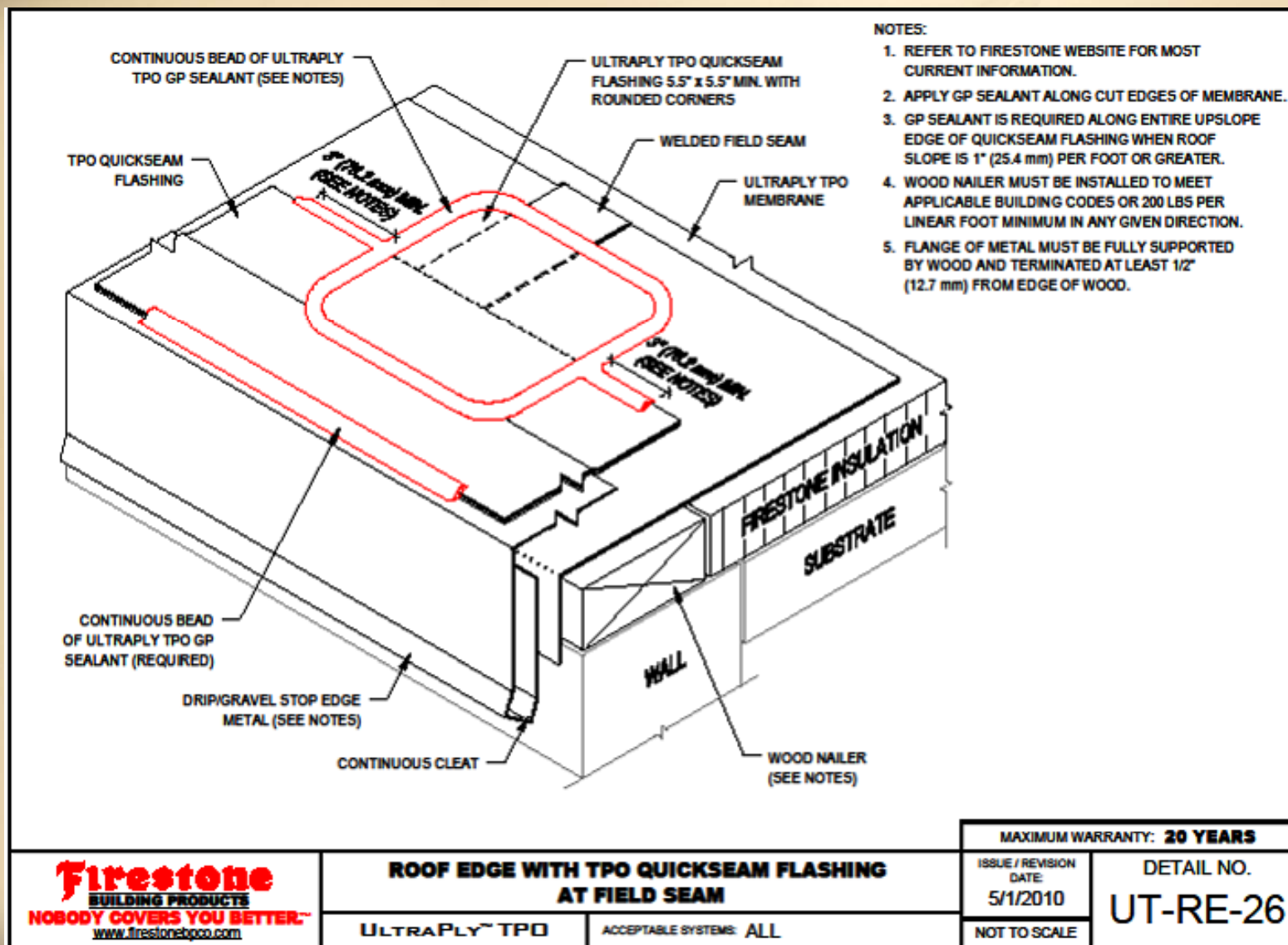


Edge Corner with QuickSeam





Roof Edge and Field Seam using QuickSeam



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. APPLY GP SEALANT ALONG CUT EDGES OF MEMBRANE.
3. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
5. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.

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ROOF EDGE WITH TPO QUICKSEAM FLASHING AT FIELD SEAM

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:
5/1/2010

NOT TO SCALE

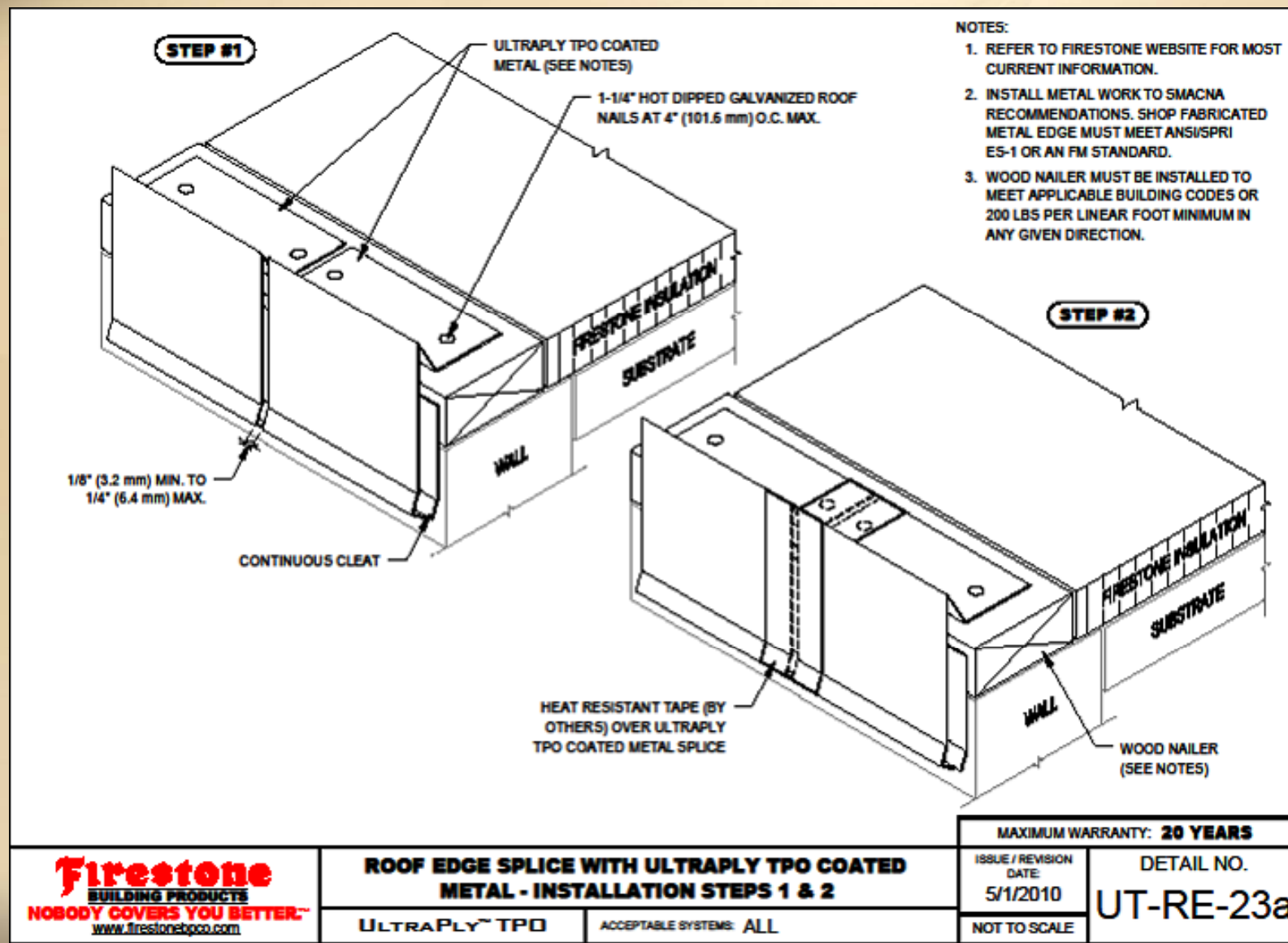
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UT-RE-26



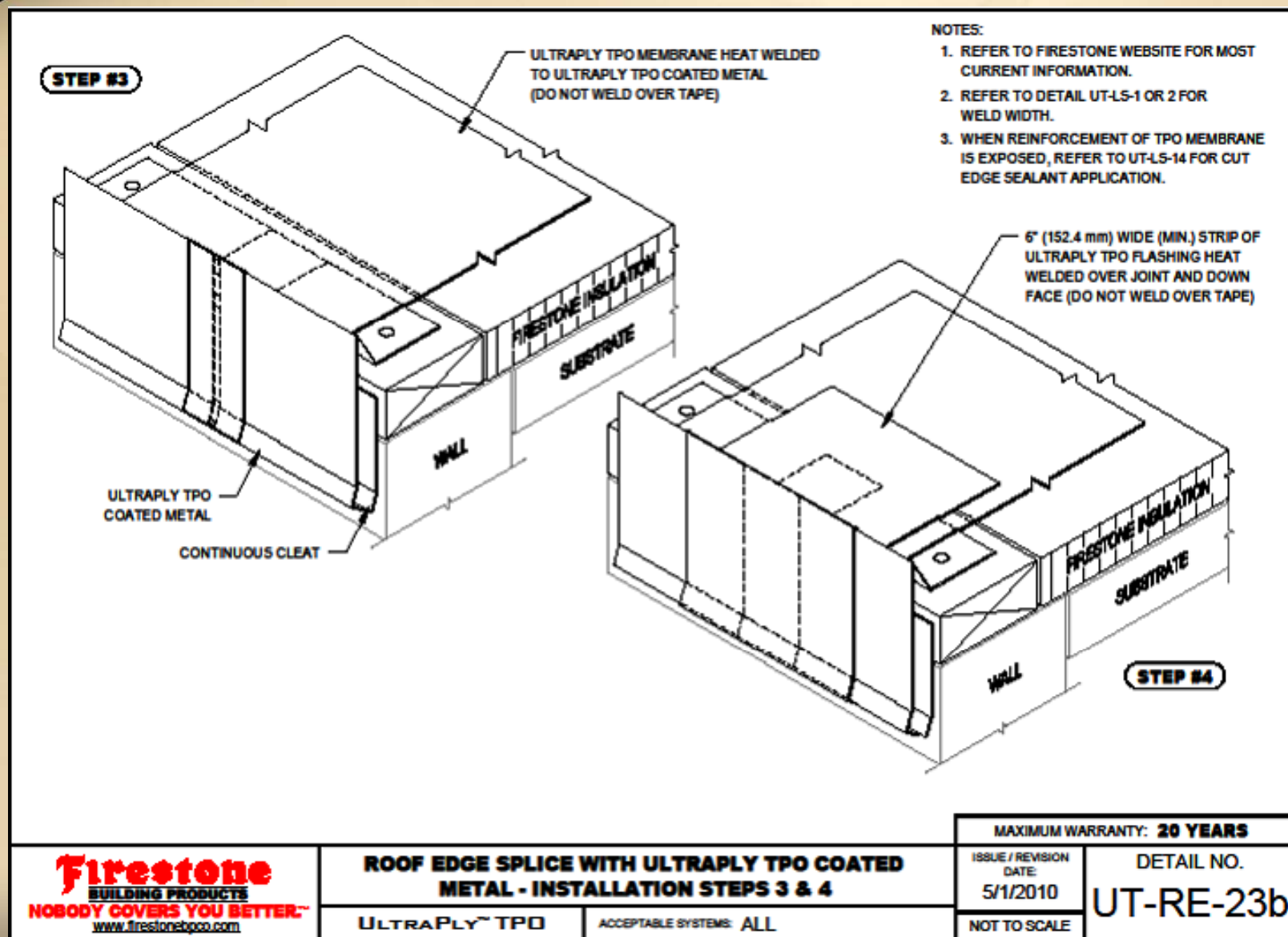


UltraPly TPO Coated Metal, Steps 1 & 2



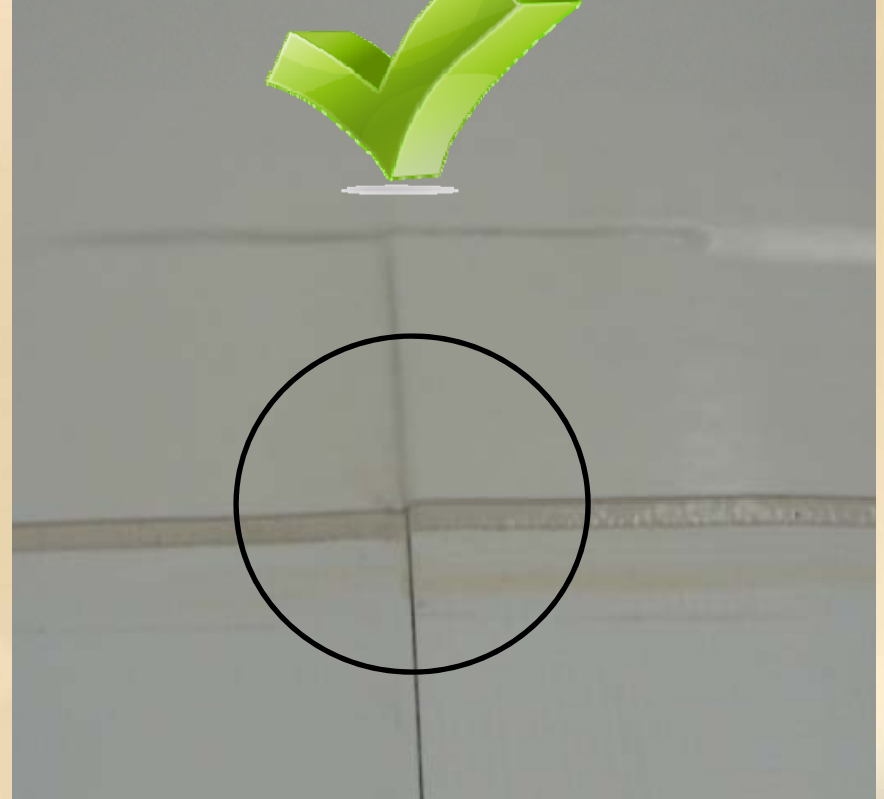
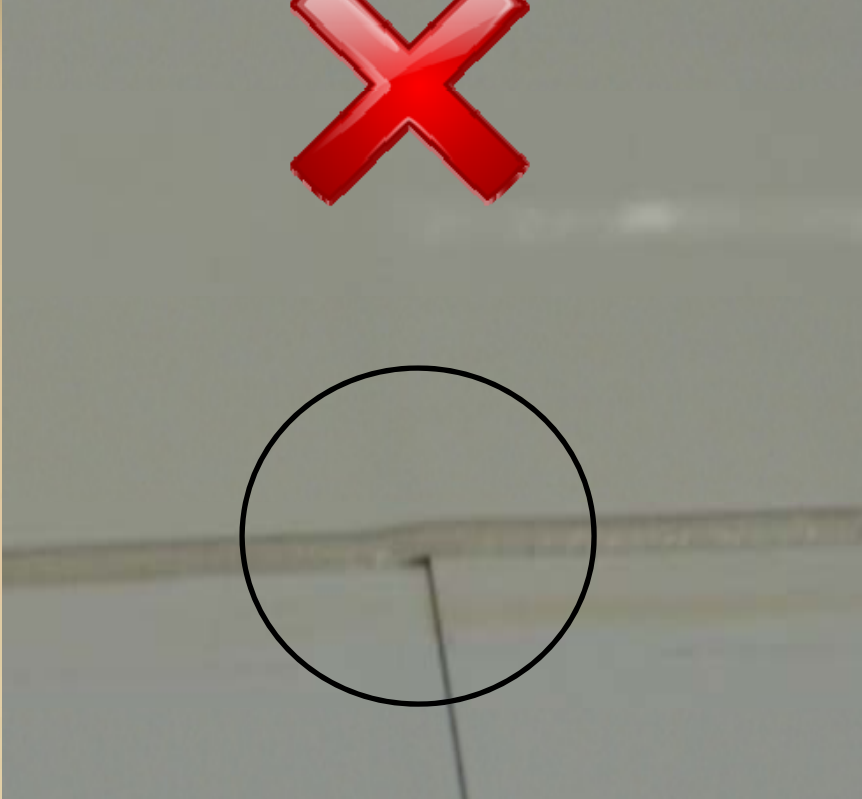


UltraPly TPO Coated Metal, Steps 3 & 4





QuickSeam Tips Heat vs No Heat





What's Wrong?

