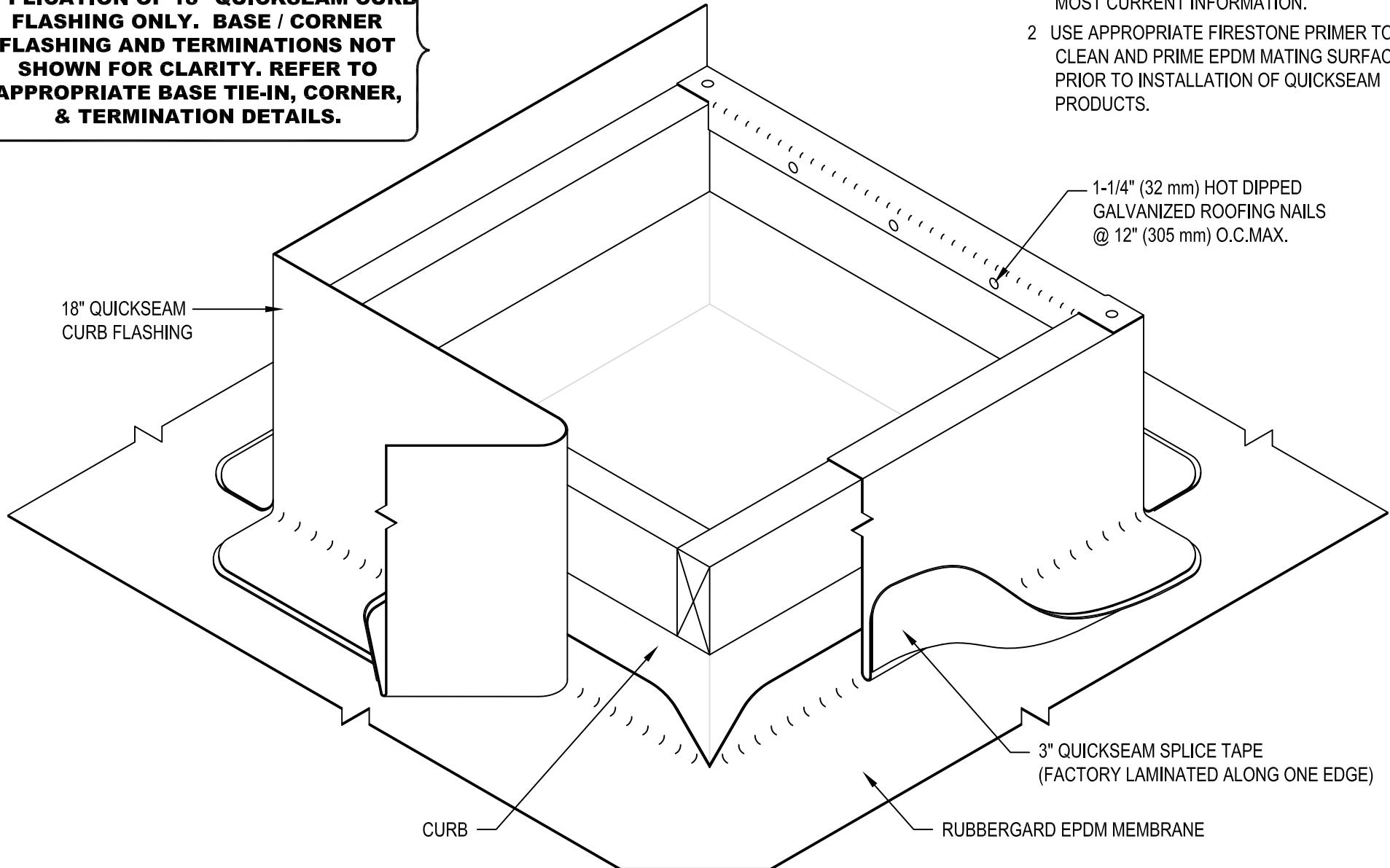


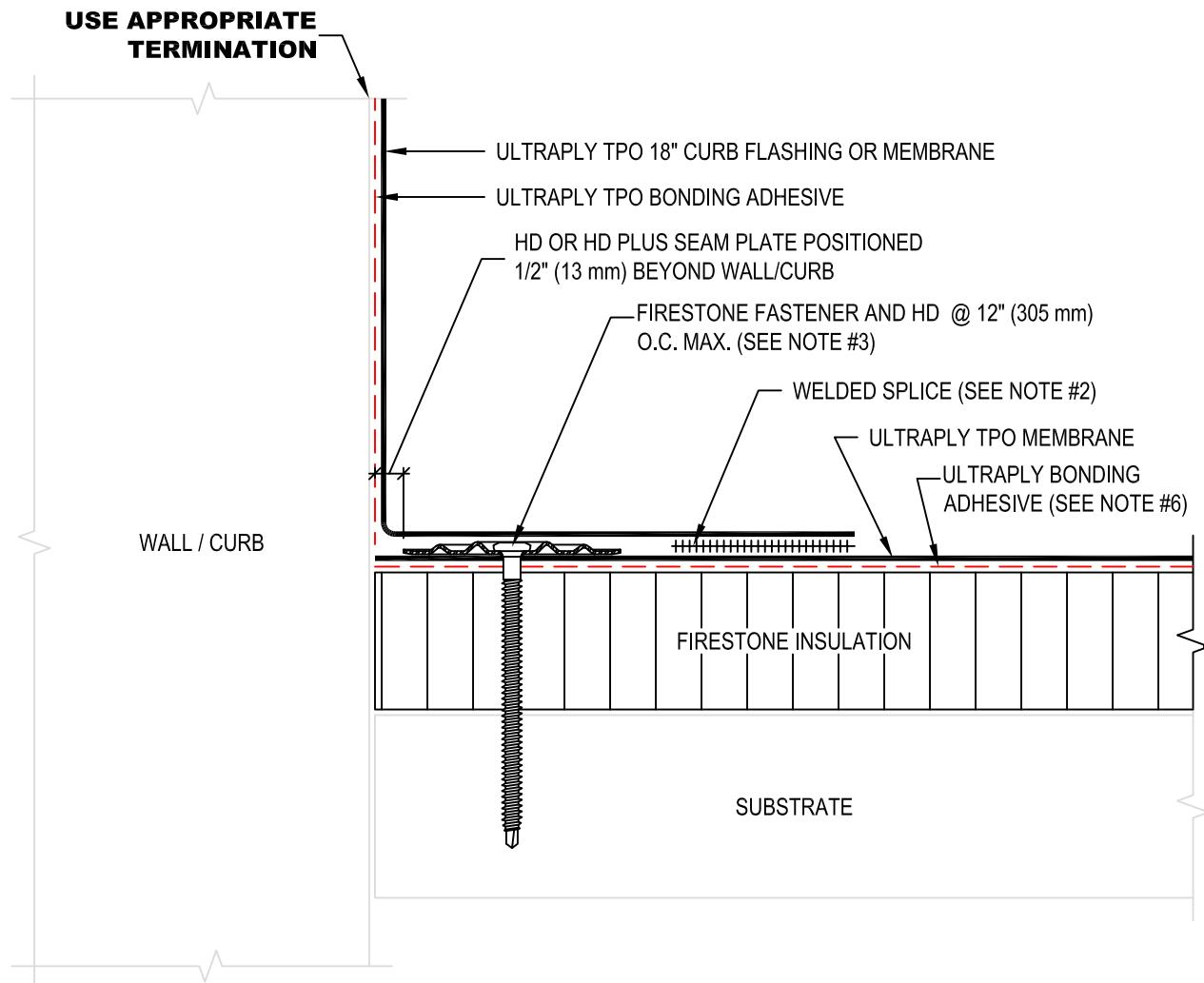
THIS DETAIL ILLUSTRATES THE APPLICATION OF 18" QUICKSEAM CURB FLASHING ONLY. BASE / CORNER FLASHING AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE BASE TIE-IN, CORNER, & TERMINATION DETAILS.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
- 2 USE APPROPRIATE FIRESTONE PRIMER TO CLEAN AND PRIME EPDM MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

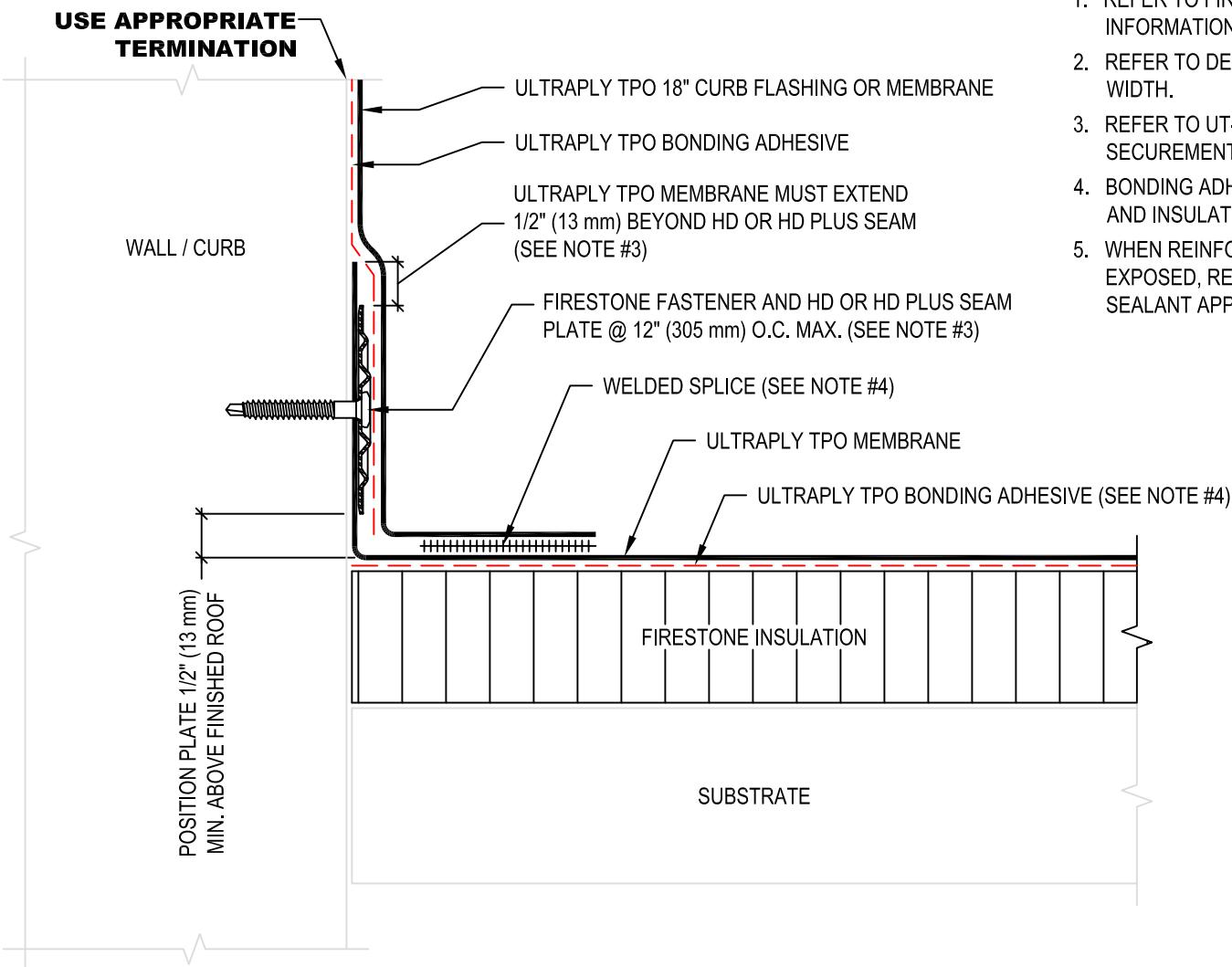
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).
4. IN CASE OF OBSTRUCTION REFER TO DETAIL UT-BT-5.
5. REFER TO UT-BT-16 & UT-BT-17 FOR MEMBRANE SECUREMENT AT CORNERS.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	BASE TIE-IN WITH HD SEAM PLATES FASTENED TO DECK		MAXIMUM WARRANTY: 20 YEARS ISSUE / REVISION DATE: 7/01/2014	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	DETAIL NO. UT-BT-1



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. REFER TO UT-BT-16 & UT-BT-17 FOR MEMBRANE SECUREMENT AT CORNERS.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com
--

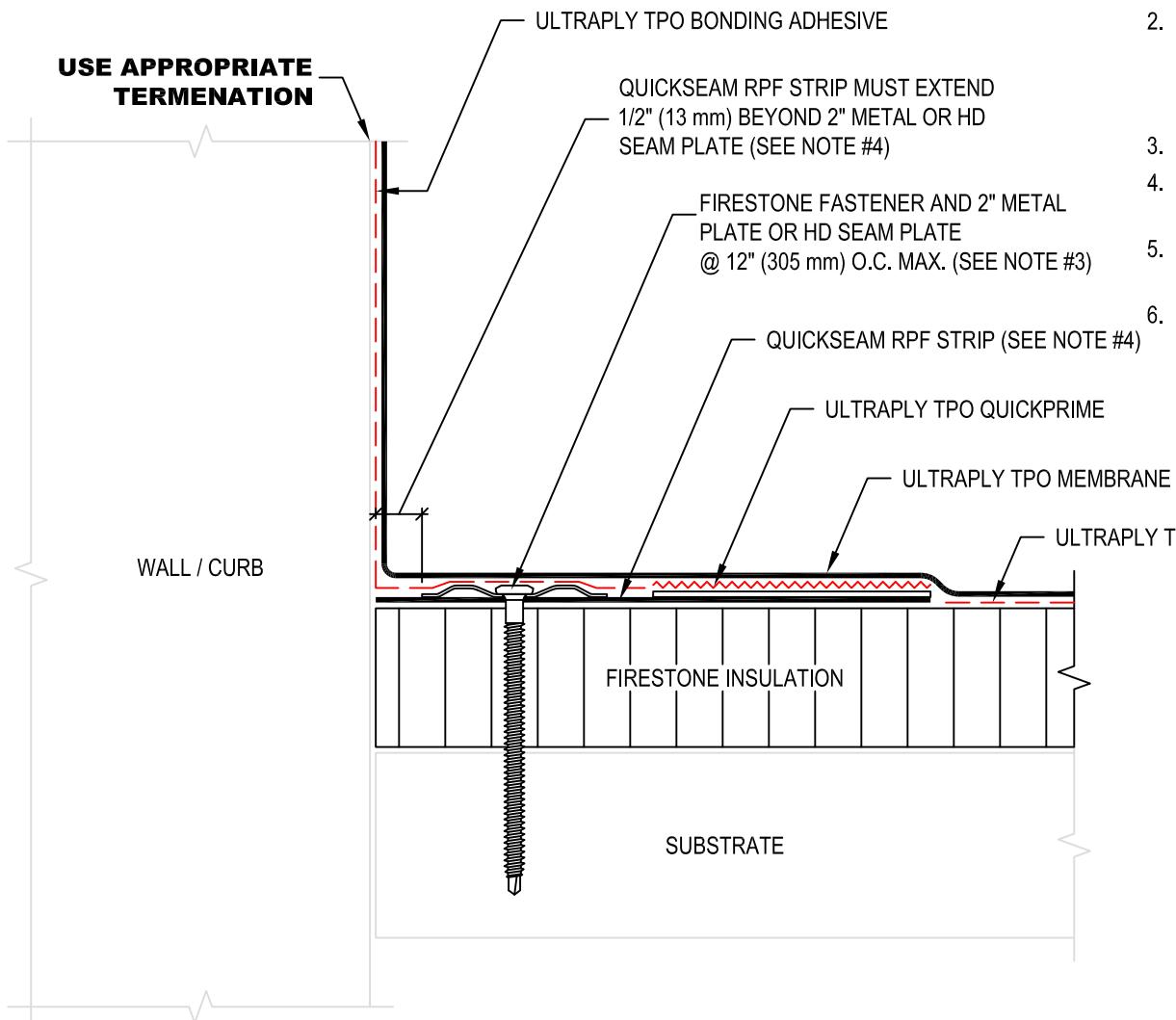
**BASE TIE-IN WITH HD SEAM PLATES FASTENED
TO WALL / CURB**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
6/26/2014
NOT TO SCALE

DETAIL NO.
UT-BT-2



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS.)
3. IN CASE OF OBSTRUCTION REFER TO DETAIL UT-BT-6.
4. REFER TO UT-BT-14 & UT-BT-15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. BATTESTRIPS MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

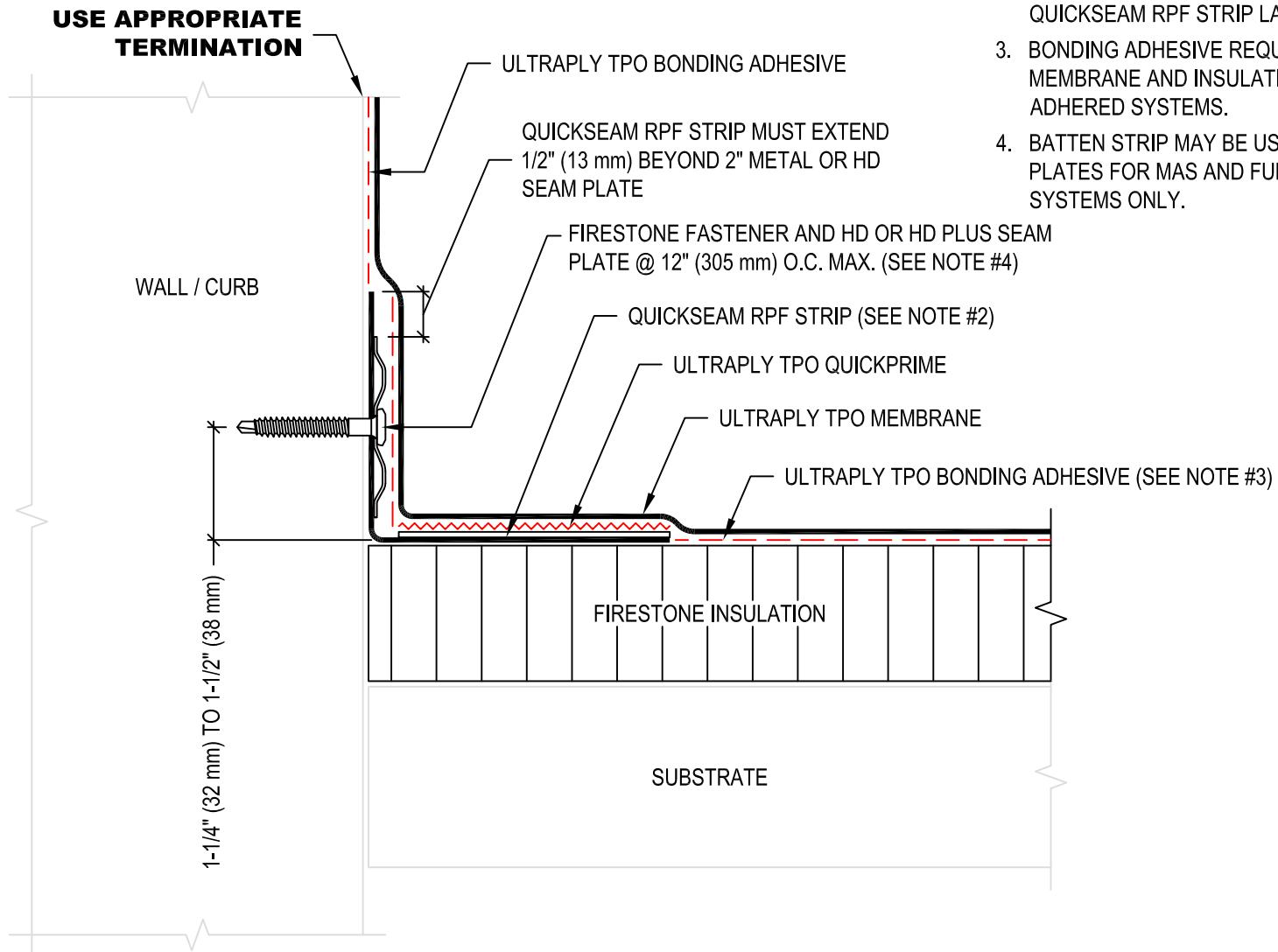
BASE TIE-IN WITH QUICKSEAM RPF AND 2" METAL PLATES FASTENED TO DECK

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

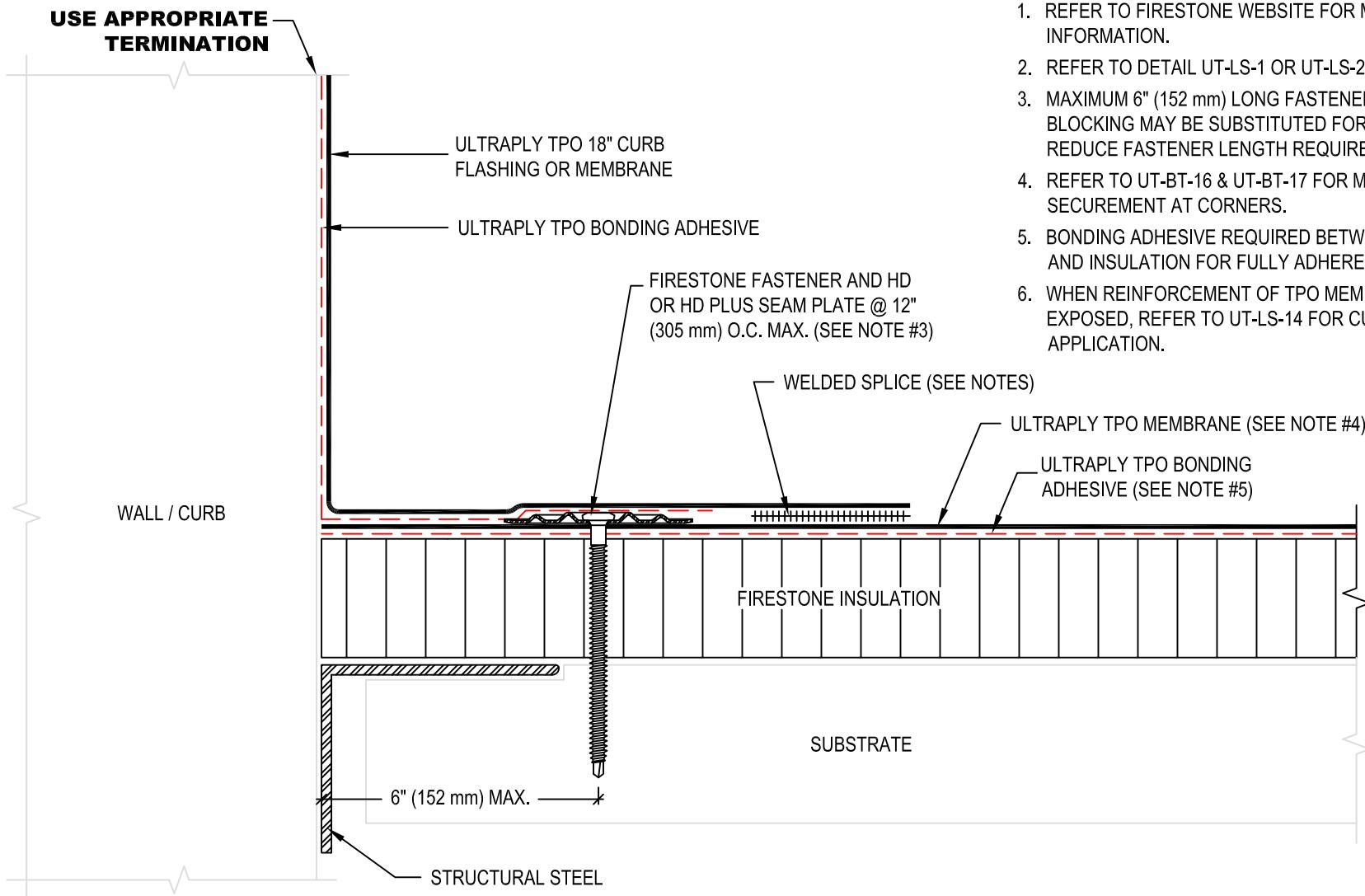
ISSUE / REVISION DATE:
6/26/2014
NOT TO SCALE

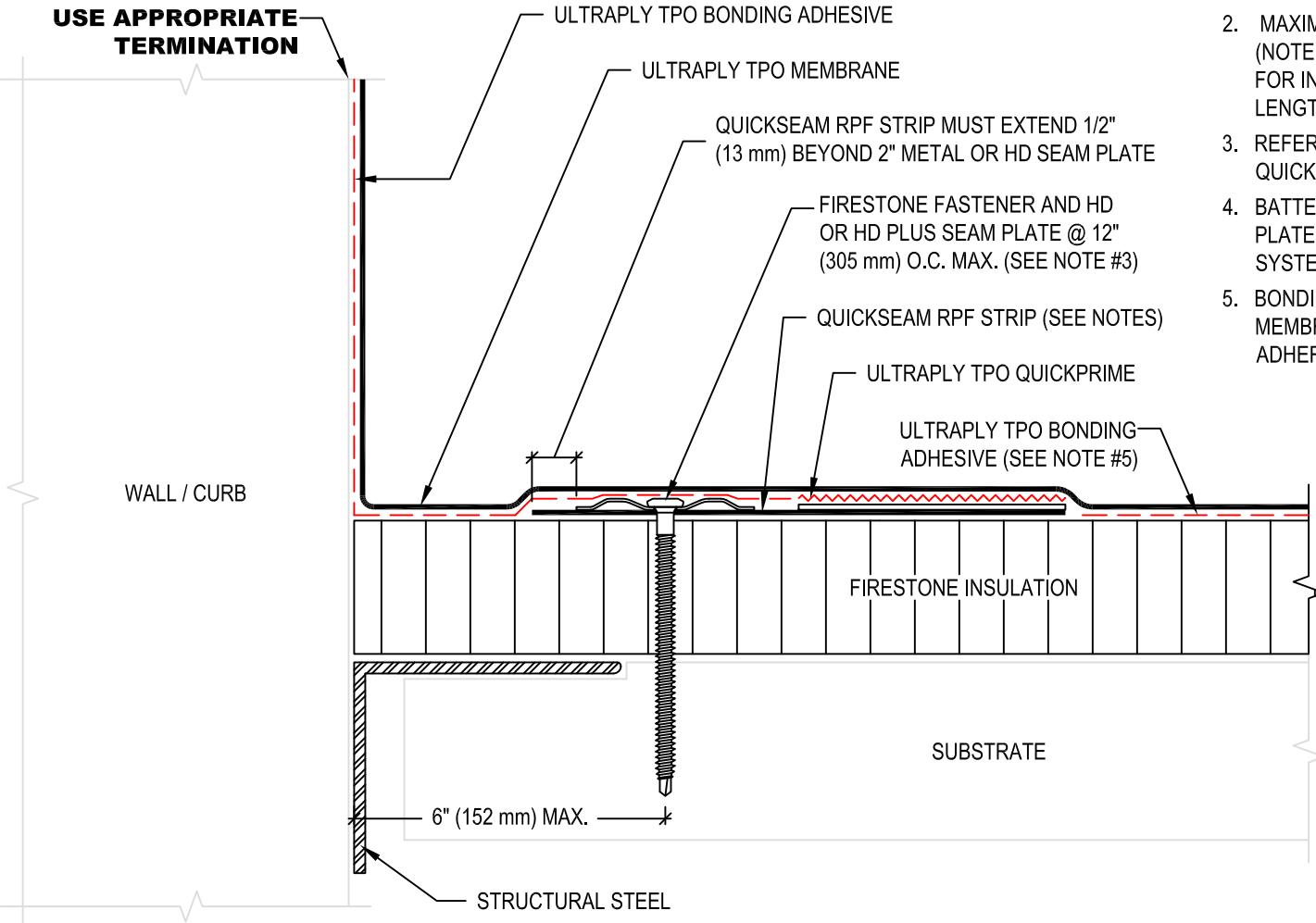
DETAIL NO.
UT-BT-3



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-BT-14 OR UT-BT-15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULL ADHERED SYSTEMS ONLY.



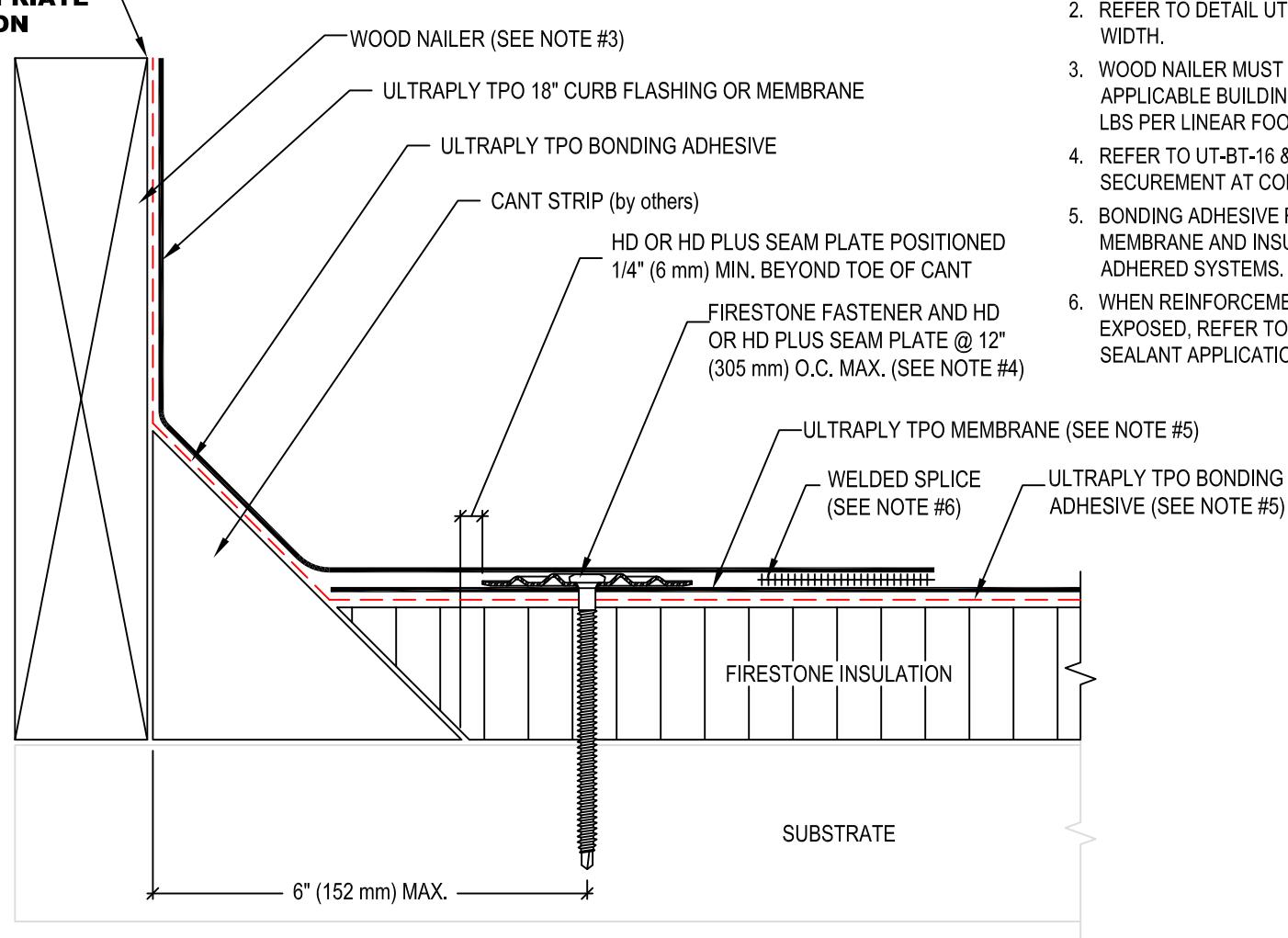


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).
3. REFER TO UT-BT-14 AND UTBT-15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.
4. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULL ADHERED SYSTEMS ONLY.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.

MAXIMUM WARRANTY: **20 YEARS**

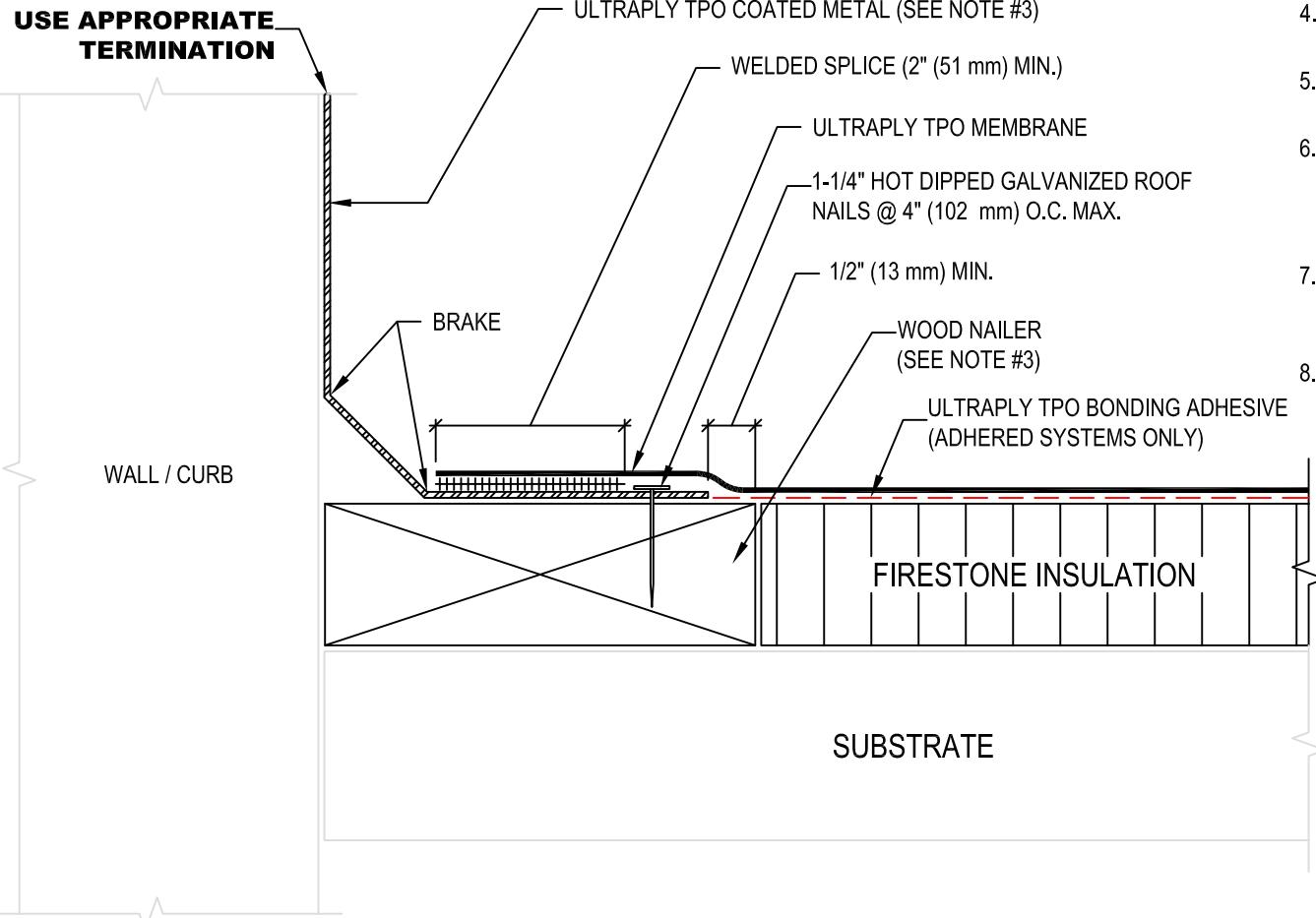
USE APPROPRIATE TERMINATION



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
4. REFER TO UT-BT-16 & UT-BT-17 FOR MEMBRANE SECUREMENT AT CORNERS.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

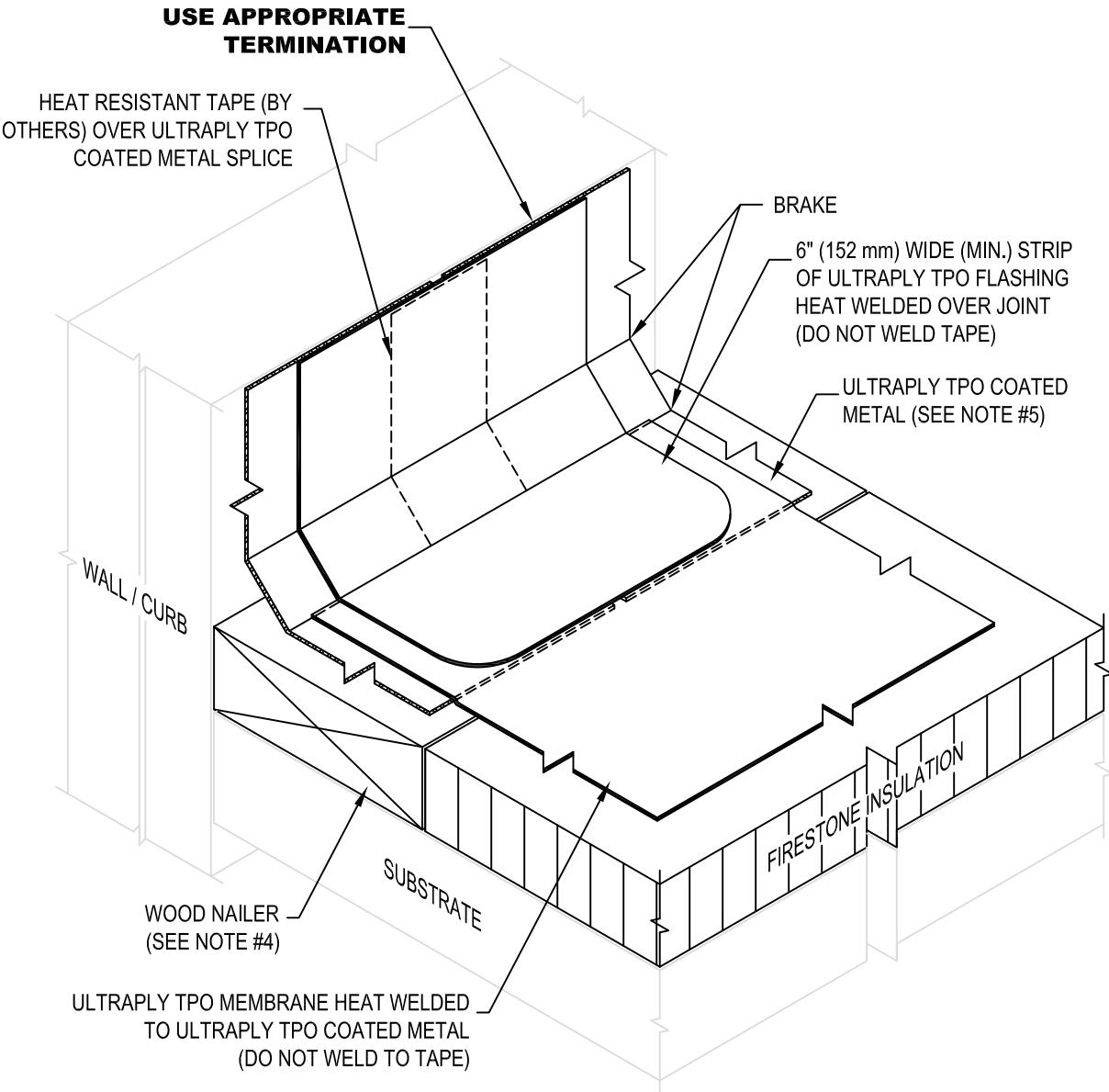
MAXIMUM WARRANTY: 20 YEARS



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. REFER TO DETAIL UT-BT-9 FOR ULTRAPLY TPO COATED METAL SPLICE.
4. REFER TO DETAIL UT-C-6 AND UT-C-8 FOR CORNER FLASHING APPLICATION.
5. INSTALL METALWORK TO SMACNA RECOMMENDATIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	BASE TIE-IN WITH ULTRAPLY TPO COATED METAL (WITH BRAKE) ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	MAXIMUM WARRANTY: 20 YEARS	
			ISSUE / REVISION DATE: 7/01/2014	
		NOT TO SCALE		
		DETAIL NO. UT-BT-8		

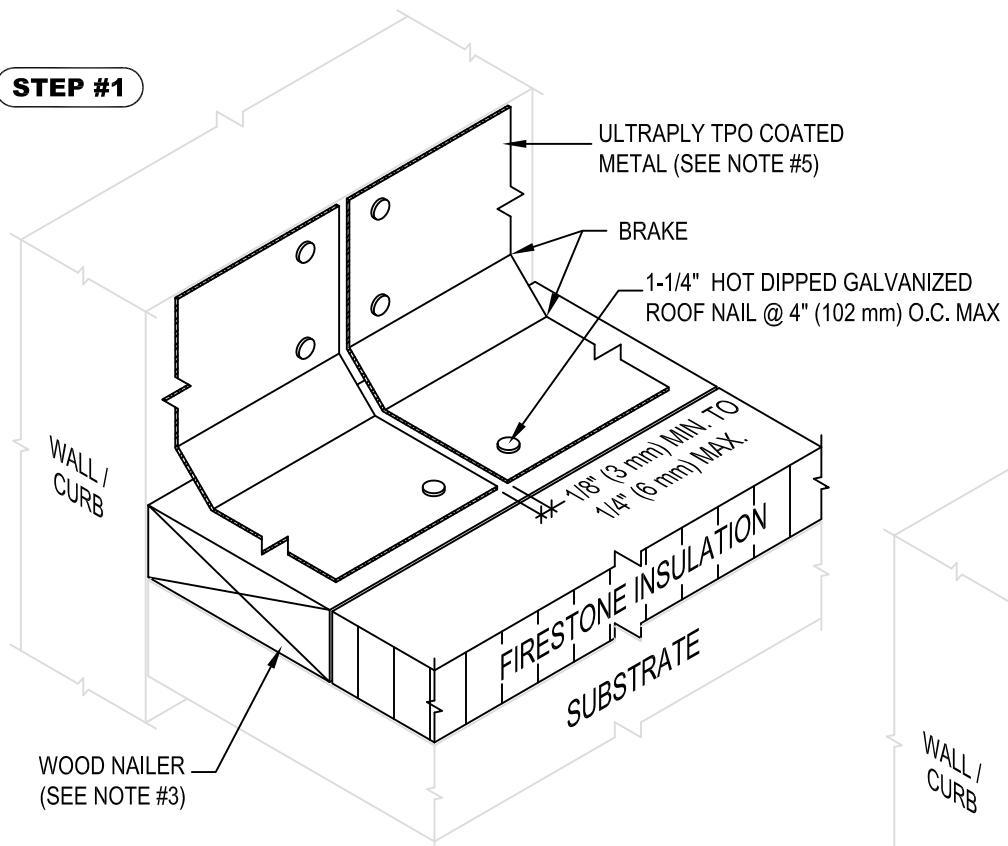


NOTES:

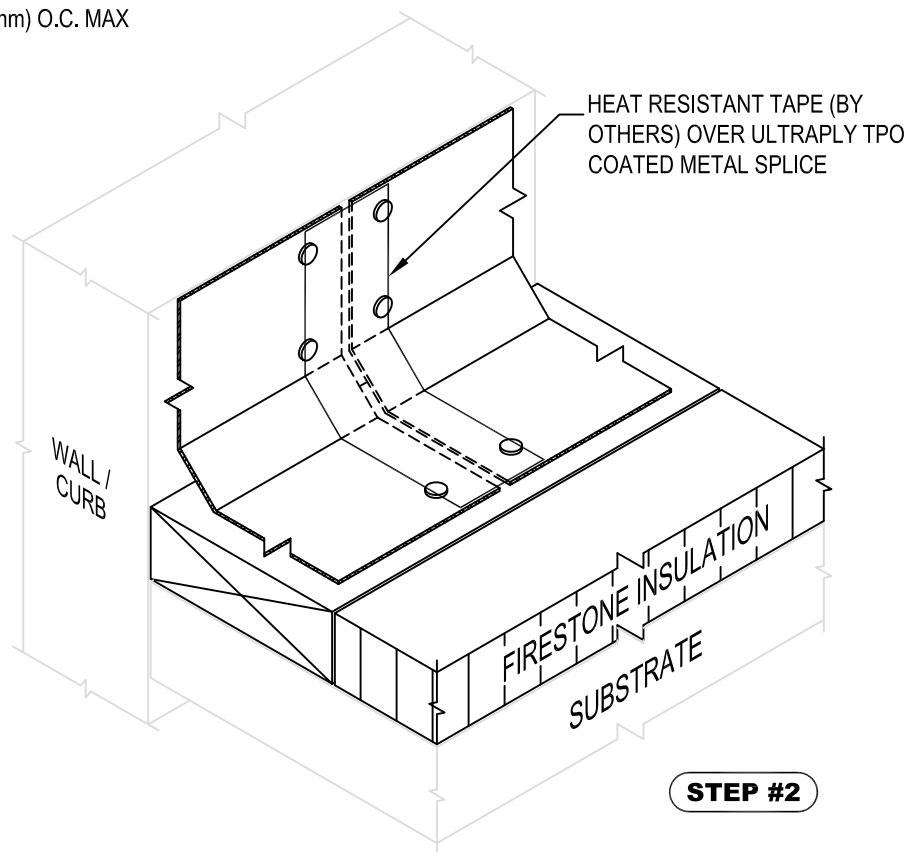
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
5. FLANGE METAL MUST BE FULLY SUPPORTED BY WOOD TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
6. INSTALL ULTRAPLY TPO COATED METAL WITH $\frac{1}{8}$ " (3 mm) MIN. TO 1/4" (6 mm) MAX BETWEEN ADJOINING SECTIONS.
7. SEE UT-BT-9a & UT-BT-9b FOR DETAILED INSTALLATION INSTRUCTIONS.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ULTRAPLY TPO COATED METAL (WITH BRAKE) SPLICE		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-BT-9
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		

STEP #1**NOTES:**

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.

STEP #2**MAXIMUM WARRANTY: 20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	
---	--

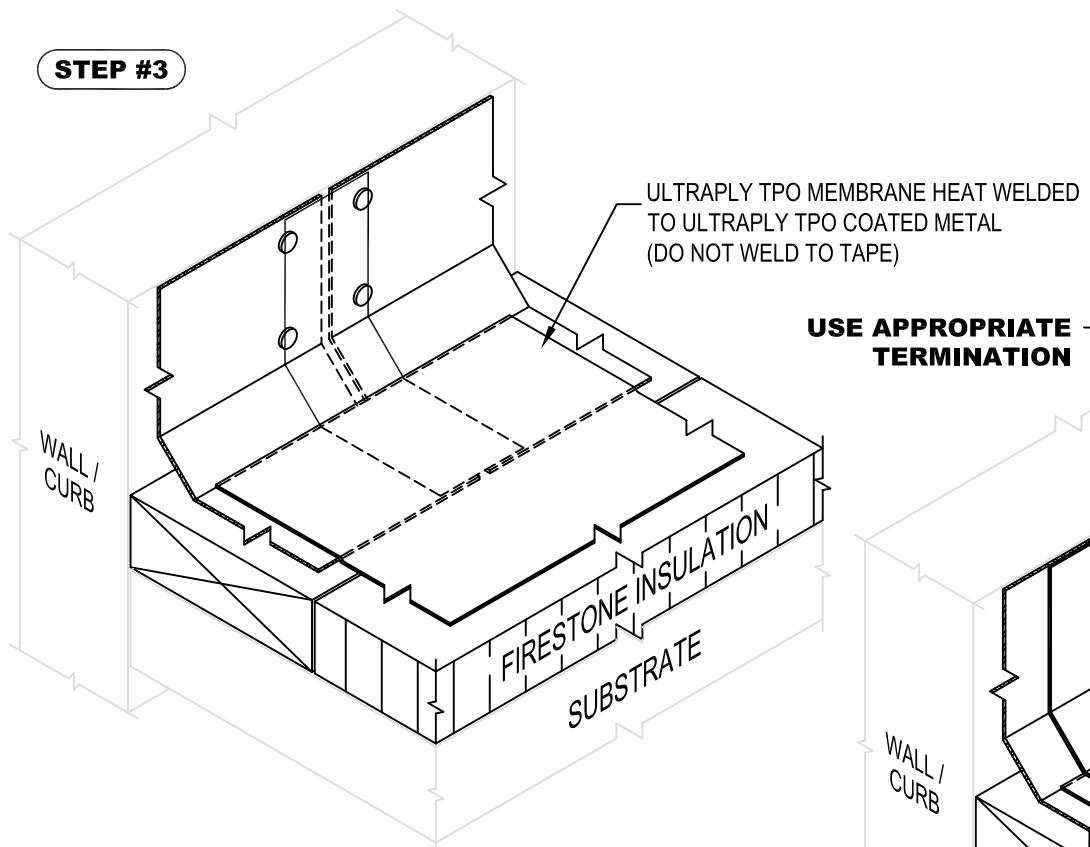
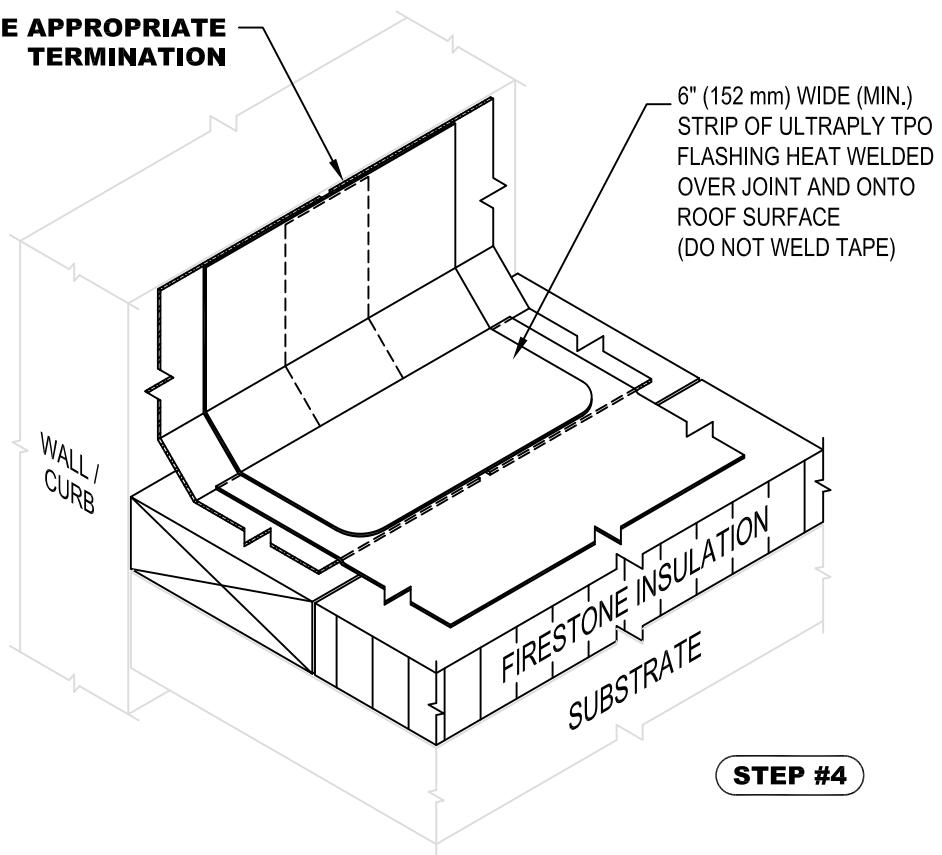
**ULTRAPLY TPO COATED METAL (WITH BRAKE) SPLICE
INSTALLATION STEPS 1 & 2**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-BT-9a

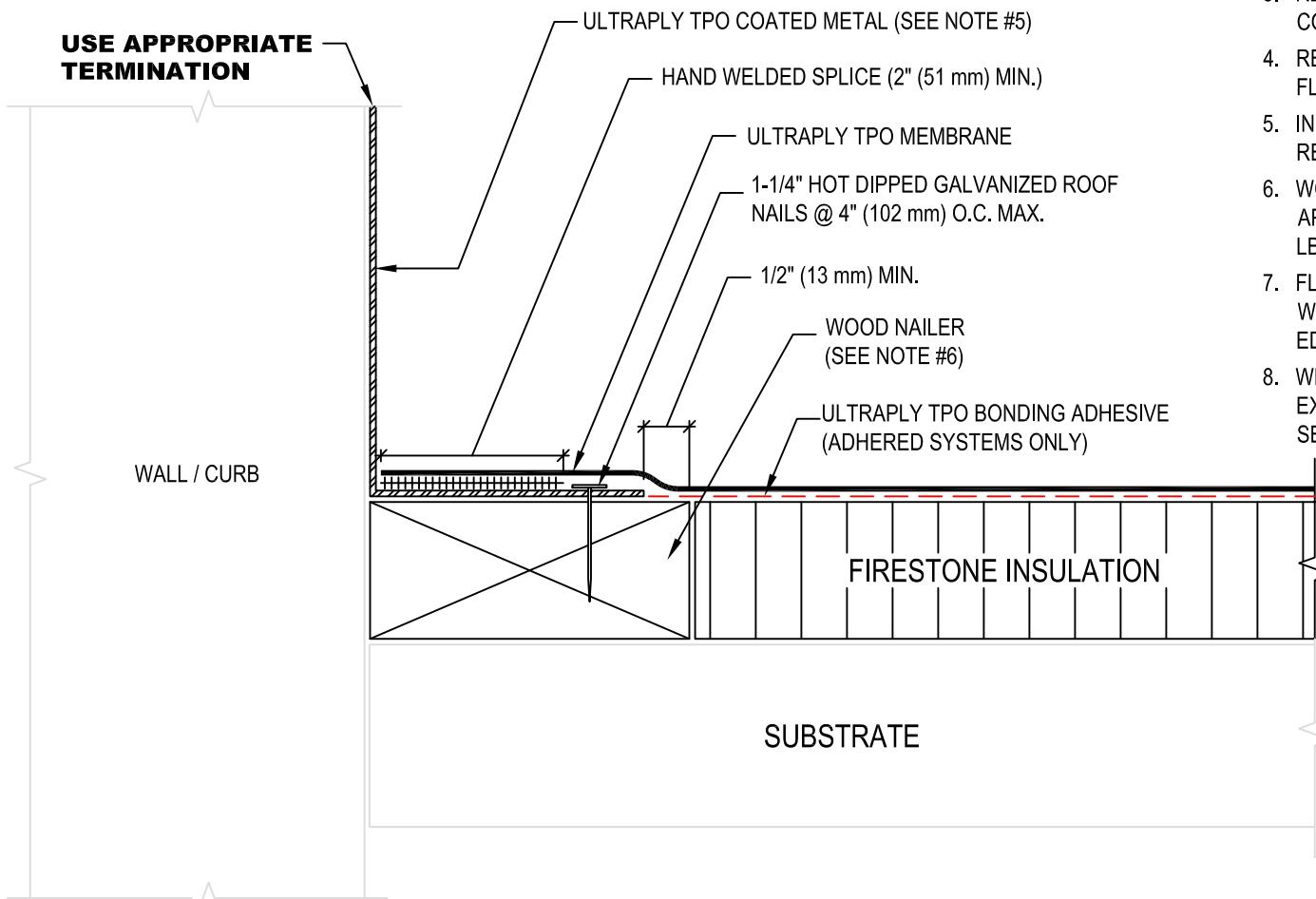
STEP #3**USE APPROPRIATE TERMINATION****STEP #4**MAXIMUM WARRANTY: **20 YEARS**ISSUE / REVISION
DATE:
6/26/2014

DETAIL NO.

UT-BT-9b

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. REFER TO DETAIL UT-BT-11 FOR ULTRAPLY TPO COATED METAL SPLICE
4. REFER TO DETAIL UT-C-7 & UT-C-9 FOR CORNER FLASHING APPLICATION.
5. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. FLANGE METAL MUST BE FULLY SUPPORTED BY WOOD TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	BASE TIE-IN WITH ULTRAPLY TPO COATED METAL		ISSUE / REVISION DATE: 7/01/2014 NOT TO SCALE
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	

DETAIL NO.
UT-BT-10

USE APPROPRIATE TERMINATION

HEAT RESISTANT TAPE (BY OTHERS) OVER ULTRAPLY TPO COATED METAL SPLICE

WALL / CURB

WOOD NAILER (SEE NOTE #4)

ULTRAPLY TPO MEMBRANE HEAT WELDED TO ULTRAPLY TPO COATED METAL (DO NOT WELD TO TAPE)

6" (152 mm) WIDE (MIN.) STRIP OF ULTRAPLY TPO FLASHING HEAT WELDED OVER JOINT (DO NOT WELD TAPE)

ULTRAPLY TPO COATED METAL (SEE NOTE #5)

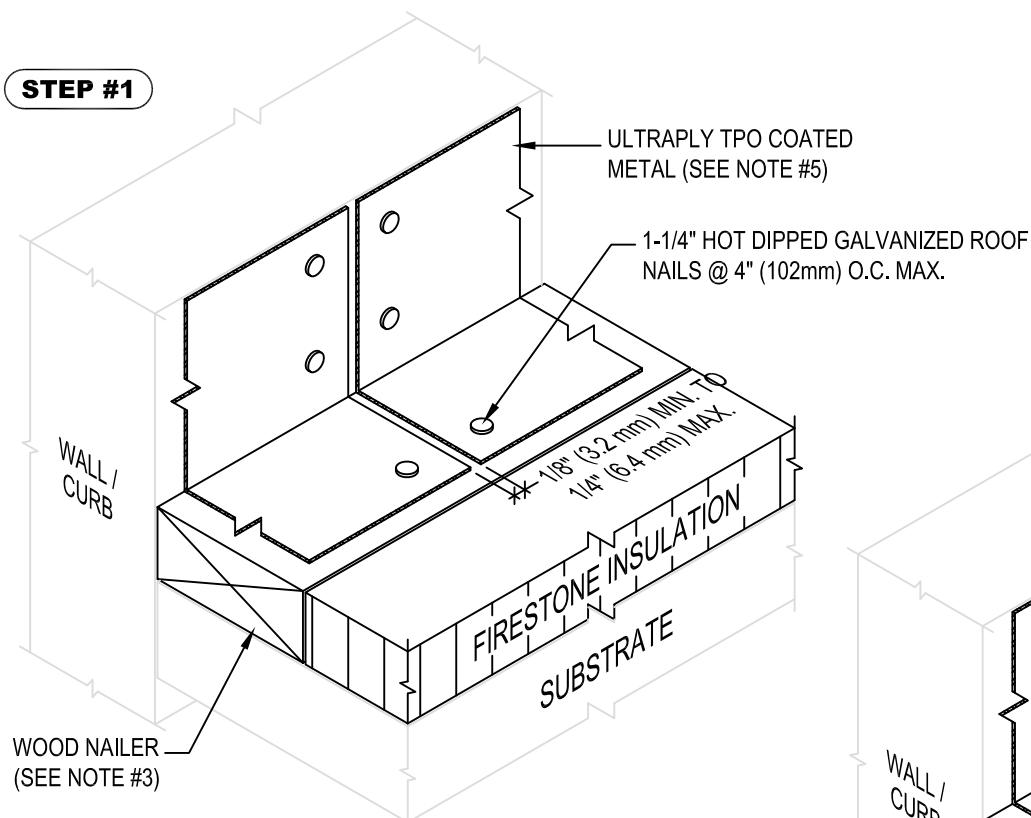
SUBSTRATE

FIRESTONE INSULATION

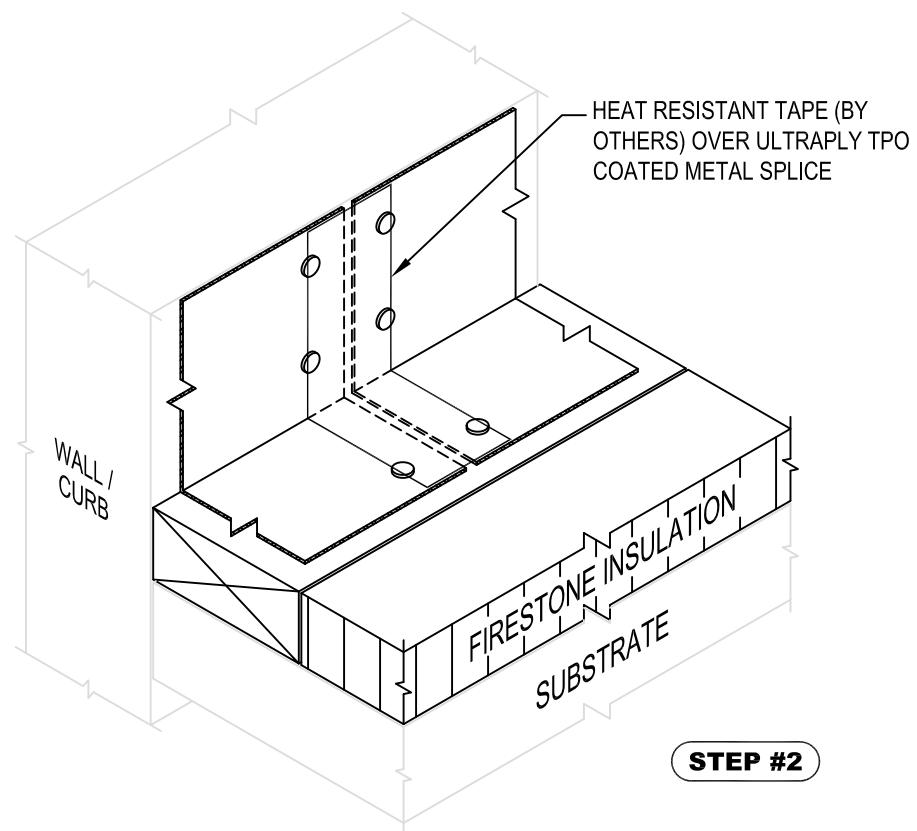
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
5. FLANGE METAL MUST BE FULLY SUPPORTED BY WOOD TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
6. INSTALL ULTRAPLY TPO COATED METAL WITH 1/8" (3 mm) MIN. TO 1/4" (6 mm) MAX BETWEEN ADJOINING SECTIONS.
7. SEE UT-BT-9a & UT-BT-9b FOR DETAILED INSTALLATION INSTRUCTIONS.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

		MAXIMUM WARRANTY: 20 YEARS	
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ULTRAPLY TPO COATED METAL SPLICE		
	ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-BT-11	
	ACCEPTABLE SYSTEMS: ALL		NOT TO SCALE

STEP #1**NOTES:**

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.

STEP #2MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	
--	--

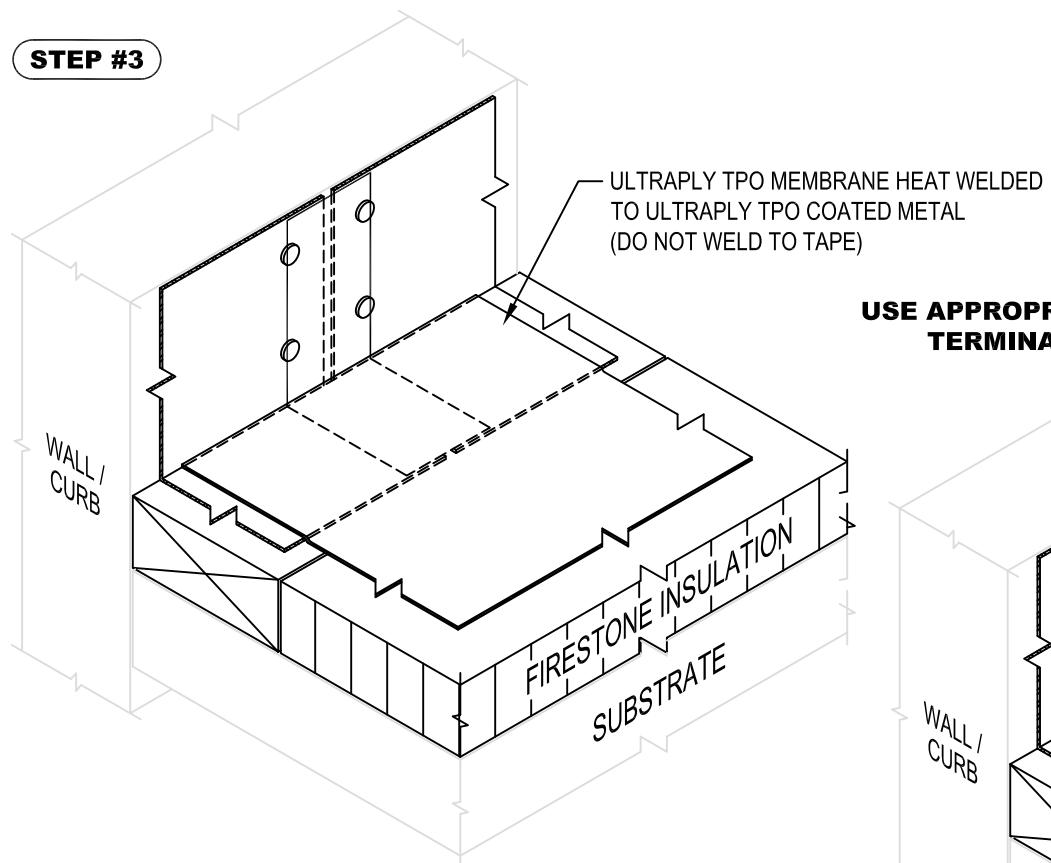
**ULTRAPLY TPO COATED METAL SPLICE
INSTALLATION STEPS 1 & 2****ULTRAPLY™ TPO**ACCEPTABLE SYSTEMS: **ALL**ISSUE / REVISION
DATE:

7/01/2014

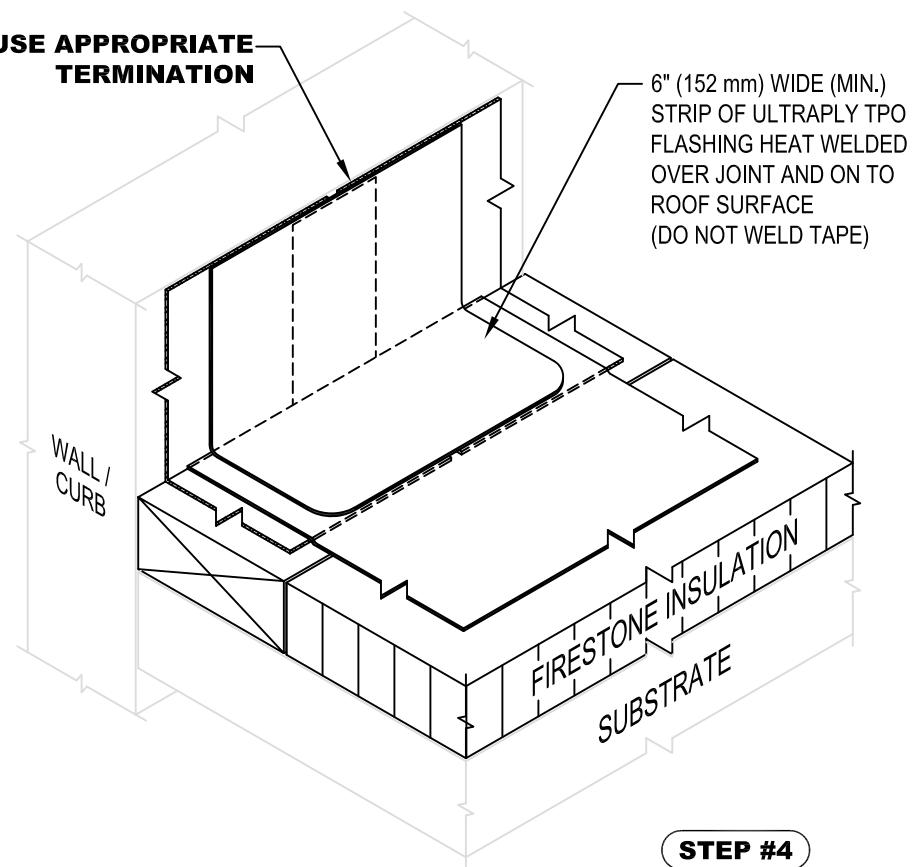
NOT TO SCALE

DETAIL NO.

UT-BT-11a

STEP #3**NOTES:**

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

USE APPROPRIATE TERMINATION**STEP #4****MAXIMUM WARRANTY: 20 YEARS**

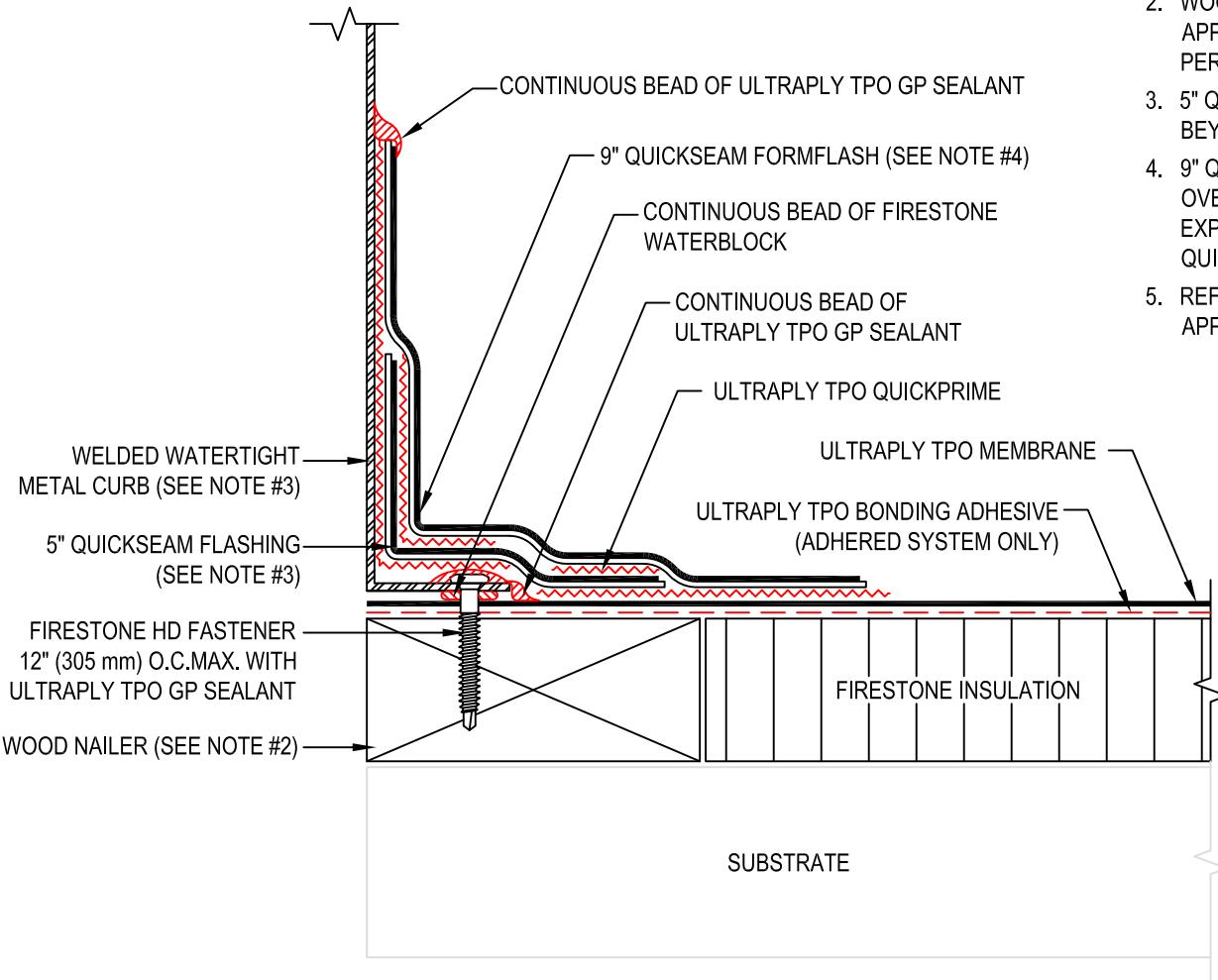
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com

**ULTRAPLY TPO COATED METAL SPLICE
INSTALLATION STEPS 3 & 4**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

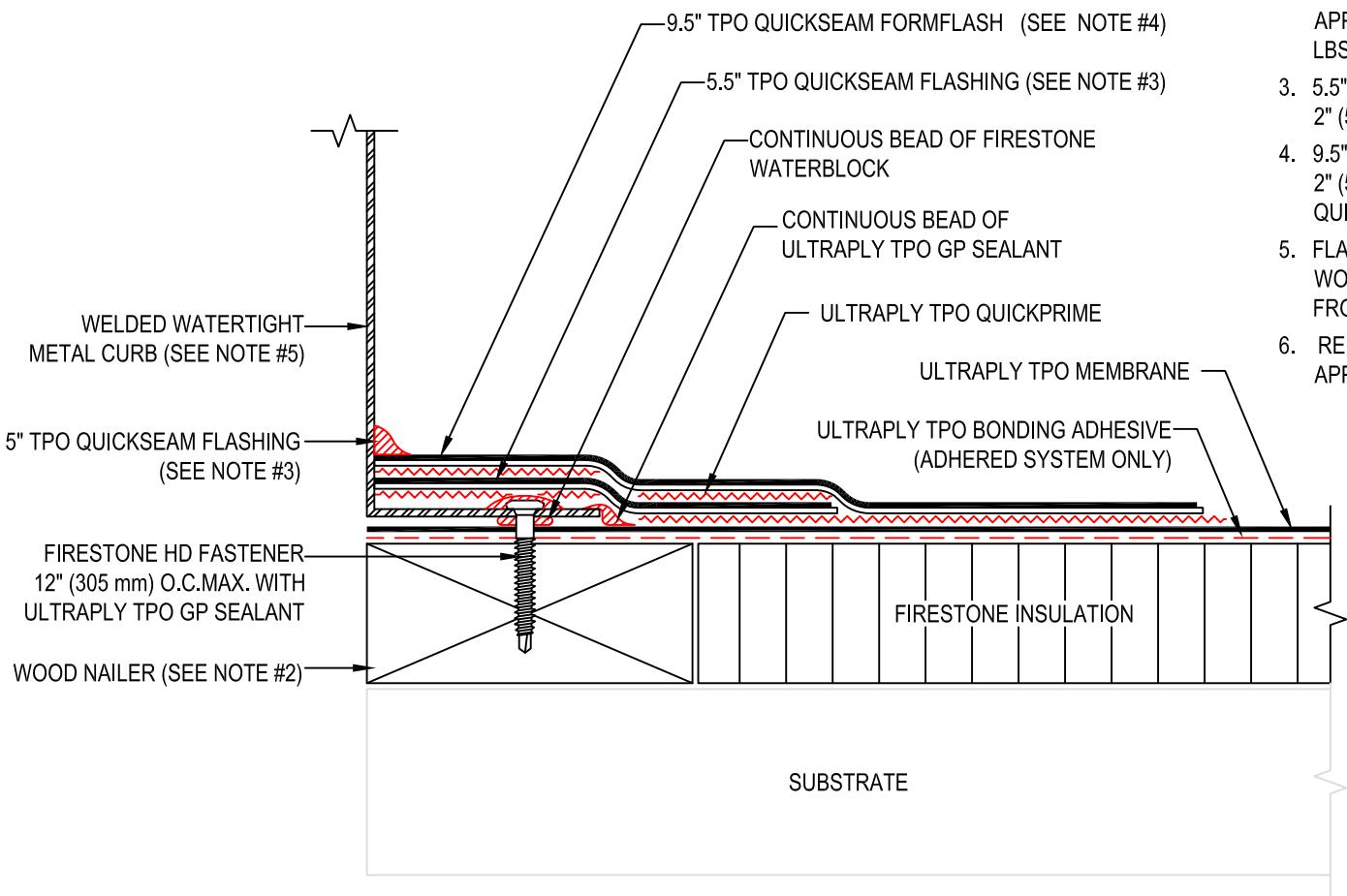
ISSUE / REVISION
DATE:
6/26/2014
NOT TO SCALEDETAIL NO.
UT-BT-11b



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
3. 5" QUICKSEAM FLASHING SHALL EXTEND 2" (51 mm) BEYOND EDGE OF CURB FLASHING.
4. 9" QUICKSEAM FORMFLASH SHALL BE CENTERED OVER 5" QUICKSEAM FLASHING SO THAT IT EXPANDS 2" (51mm) BEYOND EDGE OF 5" QUICKSEAM FLASHING.
5. REFER TO CUT UT-C-2 FOR OUTSIDE CORNER APPLICATION.

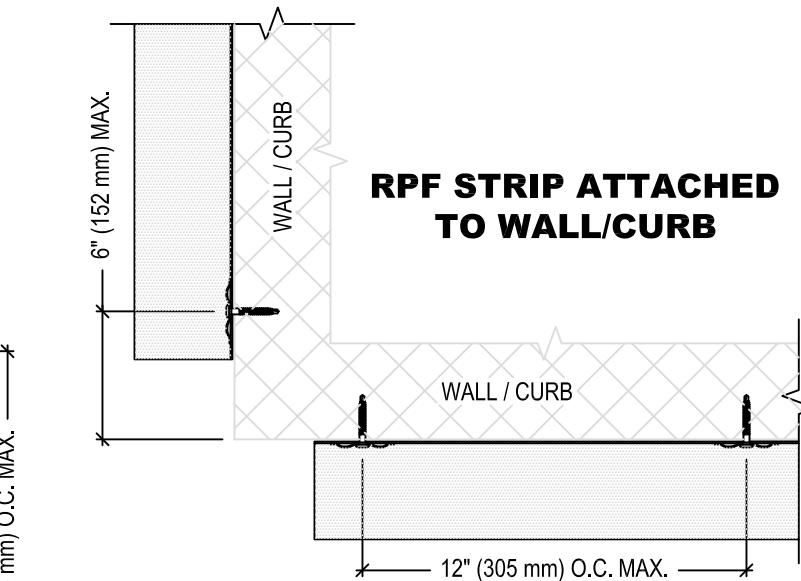
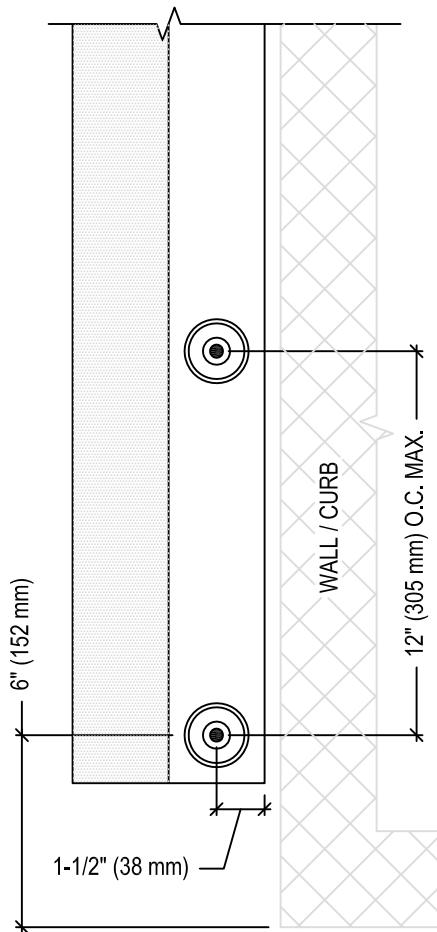
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	BASE TIE-IN AT WELDED WATERTIGHT CURB (FLANGES UNDER 2")	MAXIMUM WARRANTY: 15 YEARS	
		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-BT-12
	ULTRAPHLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
3. 5.5" TPO QUICKSEAM FLASHING SHALL EXTEND 2" (51 mm) BEYOND EDGE OF CURB FLASHING.
4. 9.5" TPO QUICKSEAM FLASHING SHALL EXTEND 2" (51 mm) BEYOND EDGE OF 5.5" TPO QUICKSEAM FLASHING.
5. FLANGE METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/4" (6 mm) FROM EDGE OF WOOD.
6. REFER TO CUT UT-C-2 FOR OUTSIDE CORNER APPLICATION.

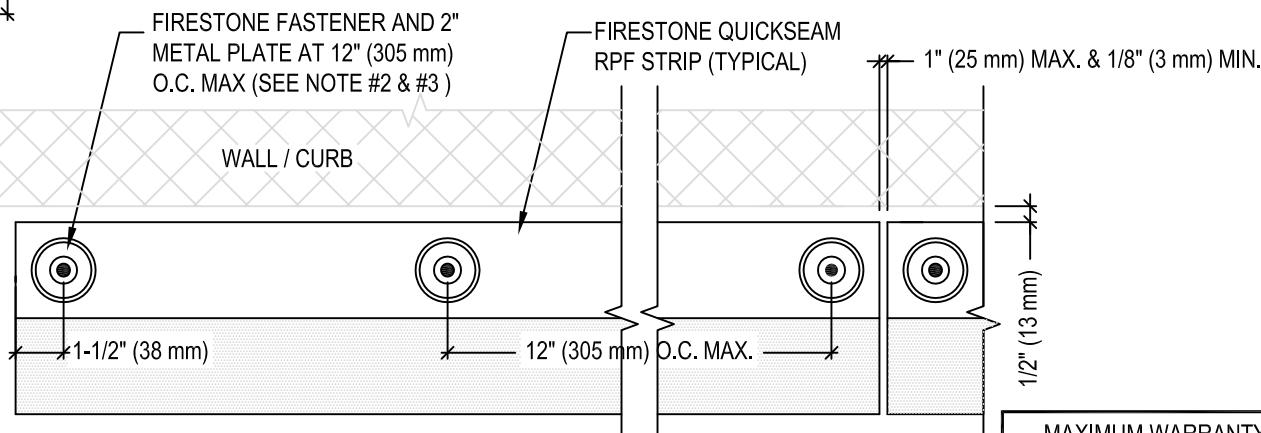
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	BASE TIE-IN AT WELDED WATERTIGHT CURB (FLANGES 2"-3")	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-BT-13



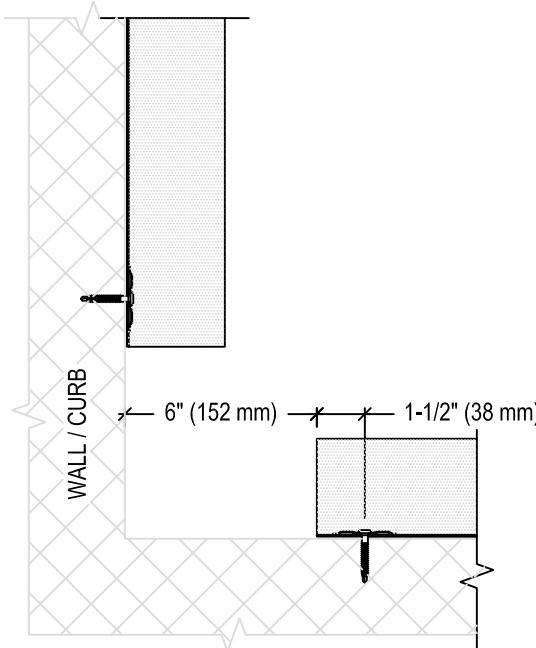
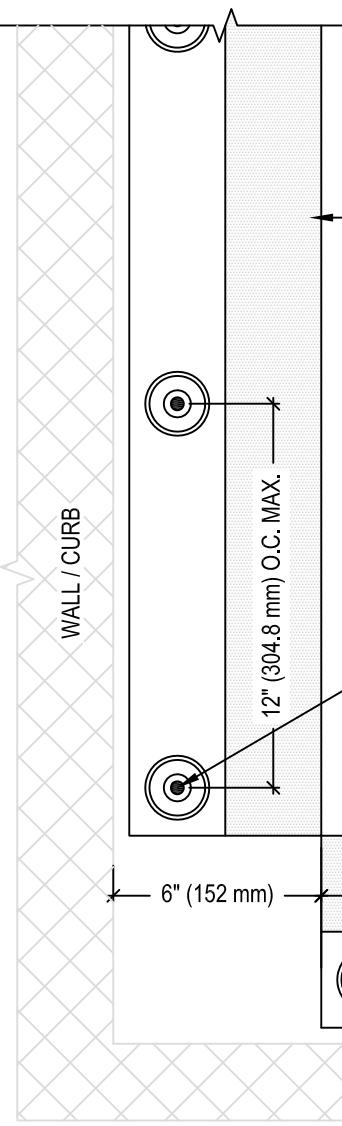
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).
3. FIRESTONE BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES TO ATTACH RPF STRIP TO ROOF DECK FOR MECHANICALLY ATTACHED AND FULL ADHERED SYSTEMS ONLY. BATTEN STRIPS MAY BE USED TO ATTACH RPF STRIP TO WALL/CURB FOR ALL SYSTEMS. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.

BASE FLASHING AND TERMINATION NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.



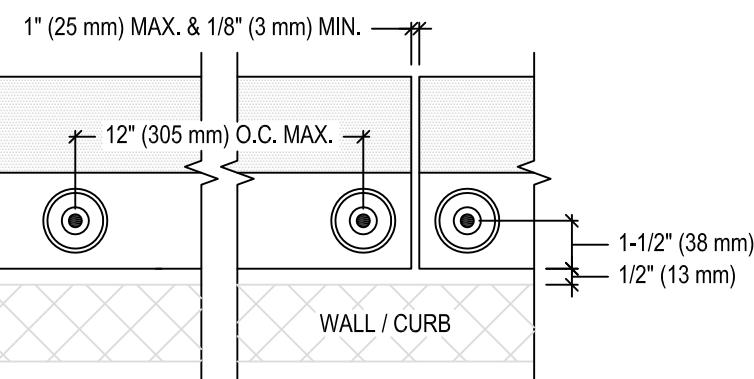
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

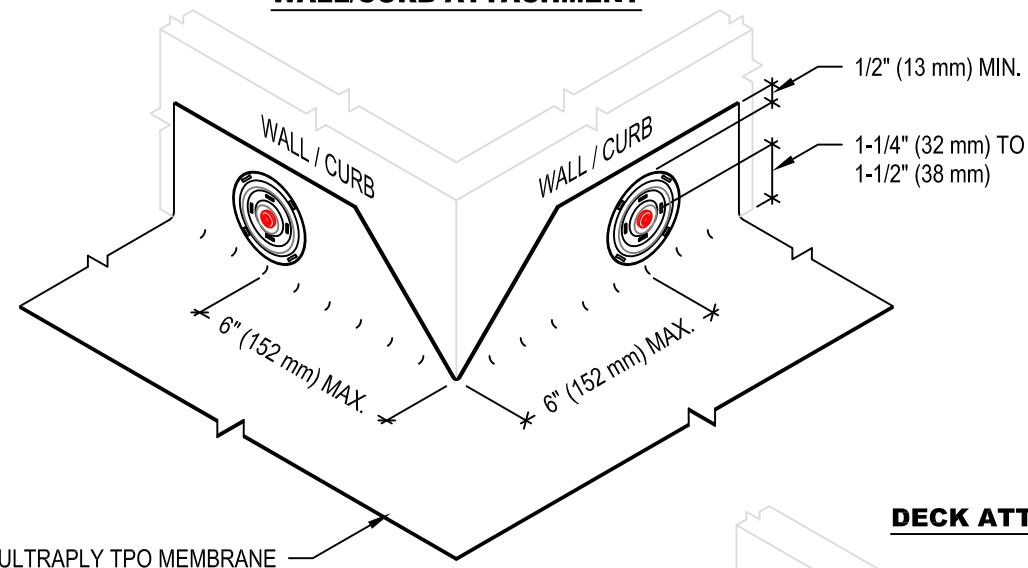
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).
3. FIRESTONE BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES TO ATTACH RPF STRIP TO ROOF DECK FOR MECHANICALLY ATTACHED AND FULL ADHERED SYSTEMS ONLY. BATTEN STRIPS MAY BE USED TO ATTACH RPF STRIP TO WALL/CURB FOR ALL SYSTEMS. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.

BASE FLASHING AND TERMINATION NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.



MAXIMUM WARRANTY: 20 YEARS

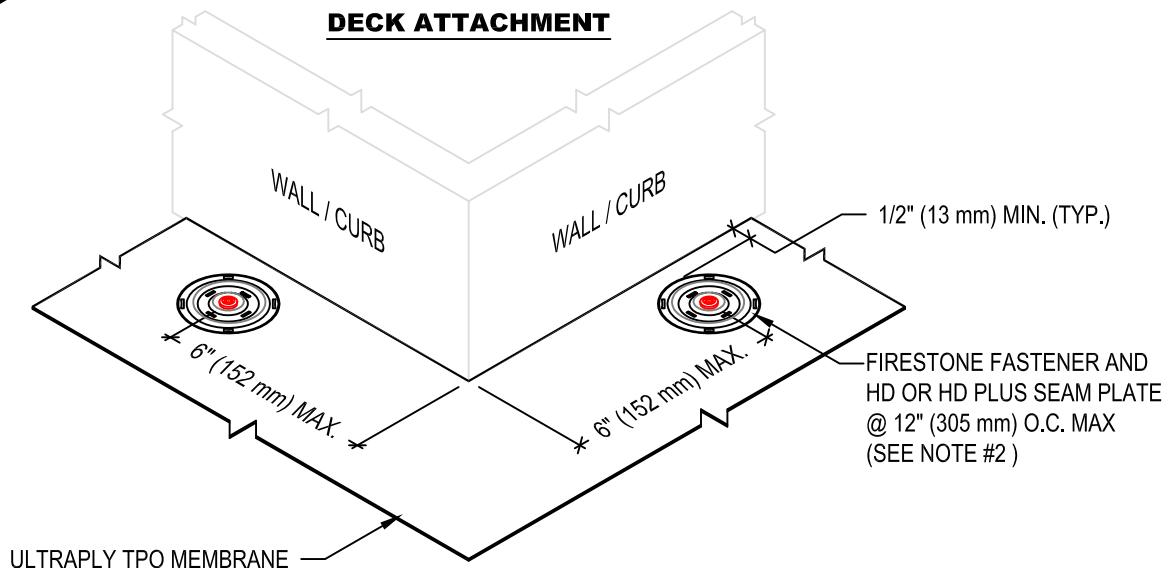
WALL/CURB ATTACHMENT



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).

DECK ATTACHMENT



**BASE FLASHING AND
TERMINATION NOT SHOWN
FOR CLARITY. REFER TO
APPROPRIATE TERMINATION
& BASE TIE-IN DETAILS.**

MAXIMUM WARRANTY: 20 YEARS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

MEMBRANE SECUREMENT AT OUTSIDE CORNER

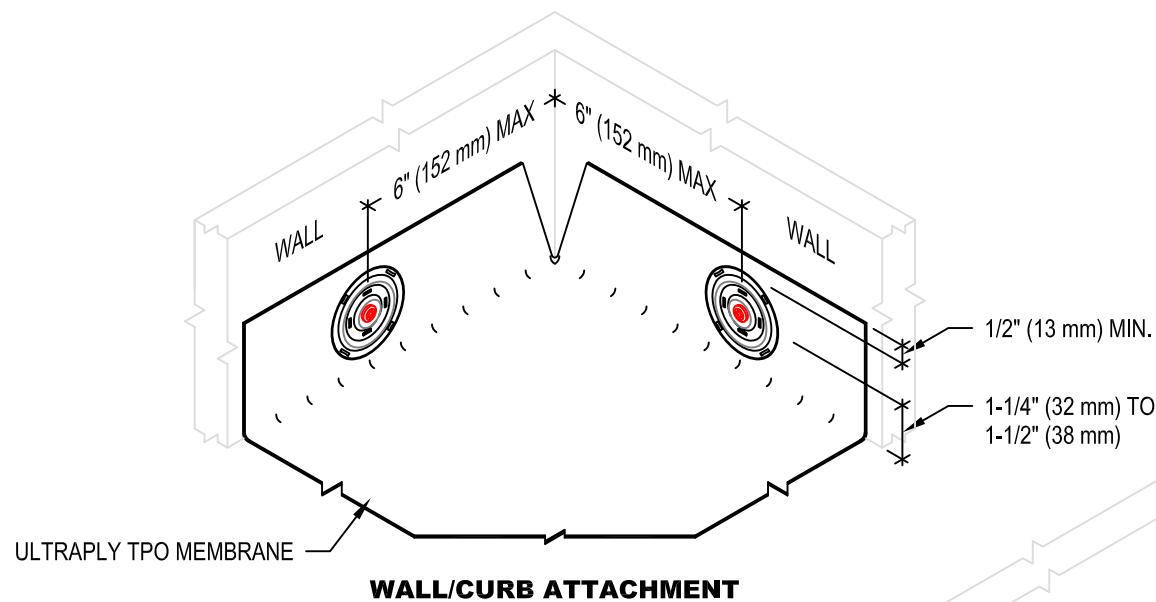
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

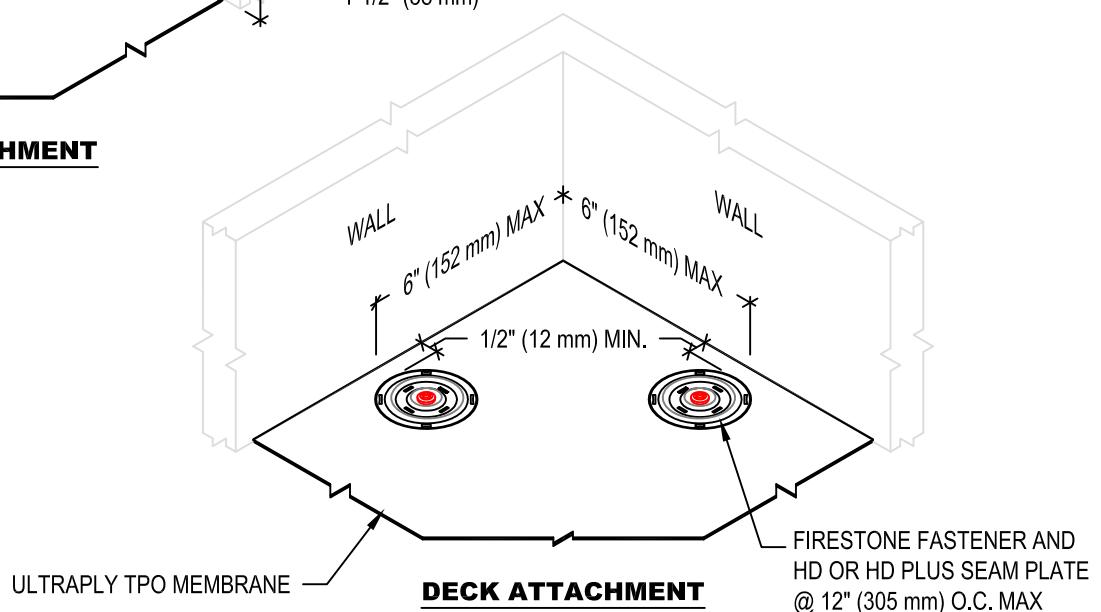
ISSUE / REVISION
DATE:
6/26/2014

NOT TO SCALE

DETAIL NO.
UT-BT-16

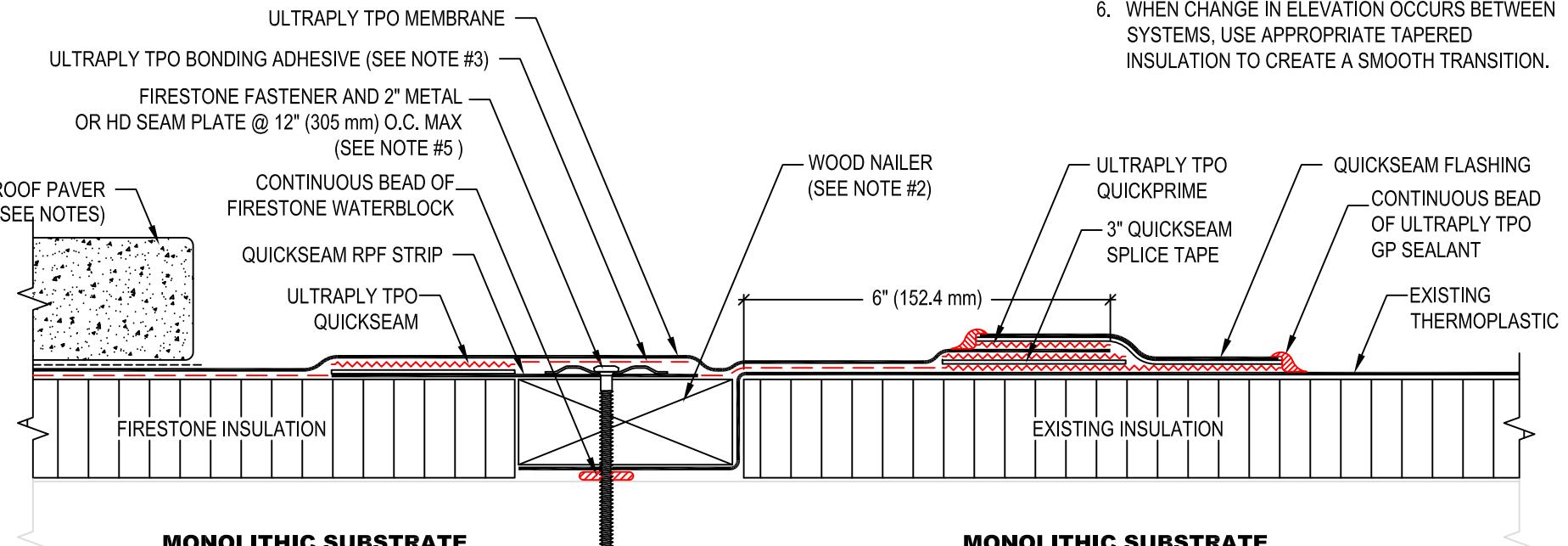


**BASE FLASHING AND
TERMINATION NOT SHOWN
FOR CLARITY. REFER TO
APPROPRIATE TERMINATION
& BASE TIE-IN DETAILS.**



NOTES:

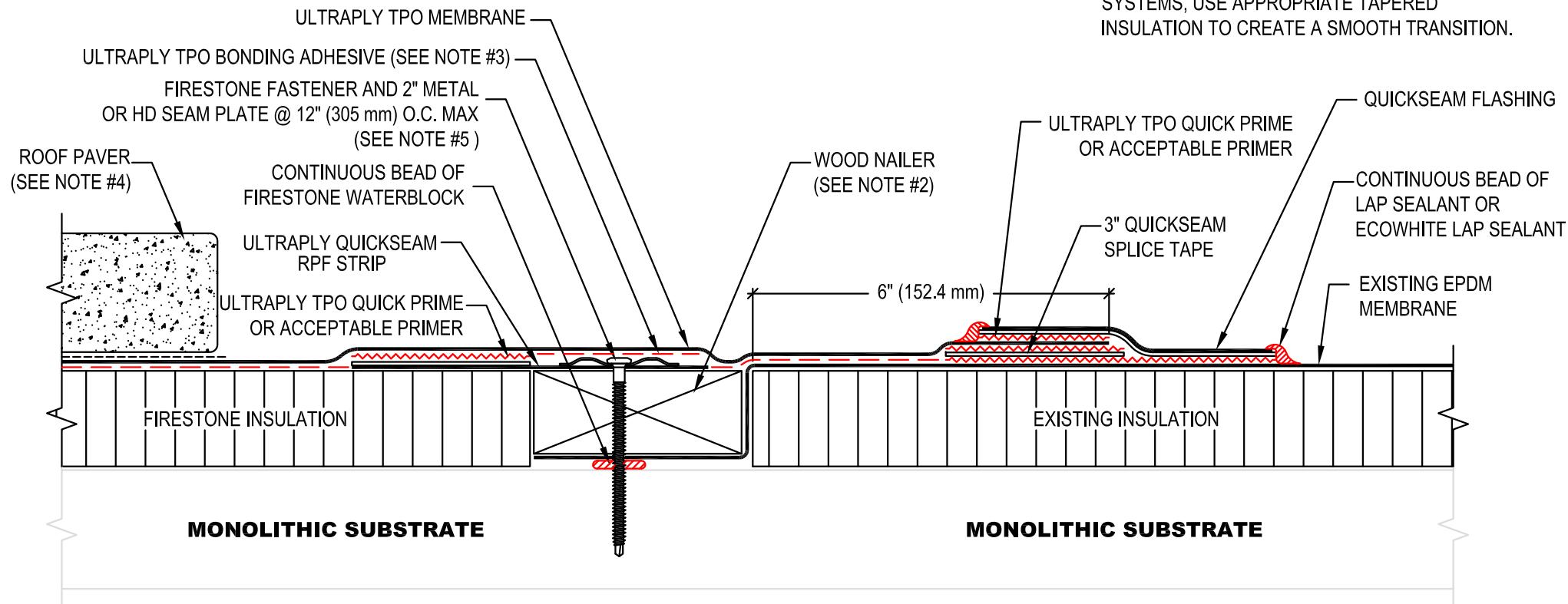
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS).



TIE-IN TO EXISTING ROOF SYSTEMS NOT WARRANTED BY FIRESTONE

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 PER LINEAL FOOT IN ANY GIVEN DIRECTION.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. FIRESTONE ROOF PAVER (MIN 10LBS (4.5KG) PER SQ. FT.) INSTALLED OVER PROTECTION LAYER REQUIRED FOR BALLASTED SYSTEMS.
5. BATTEN STRIP MAY BE USED IN LIEU OF METAL STRIPS FOR MASS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS.
6. WHEN CHANGE IN ELEVATION OCCURS BETWEEN SYSTEMS, USE APPROPRIATE TAPERED INSULATION TO CREATE A SMOOTH TRANSITION.

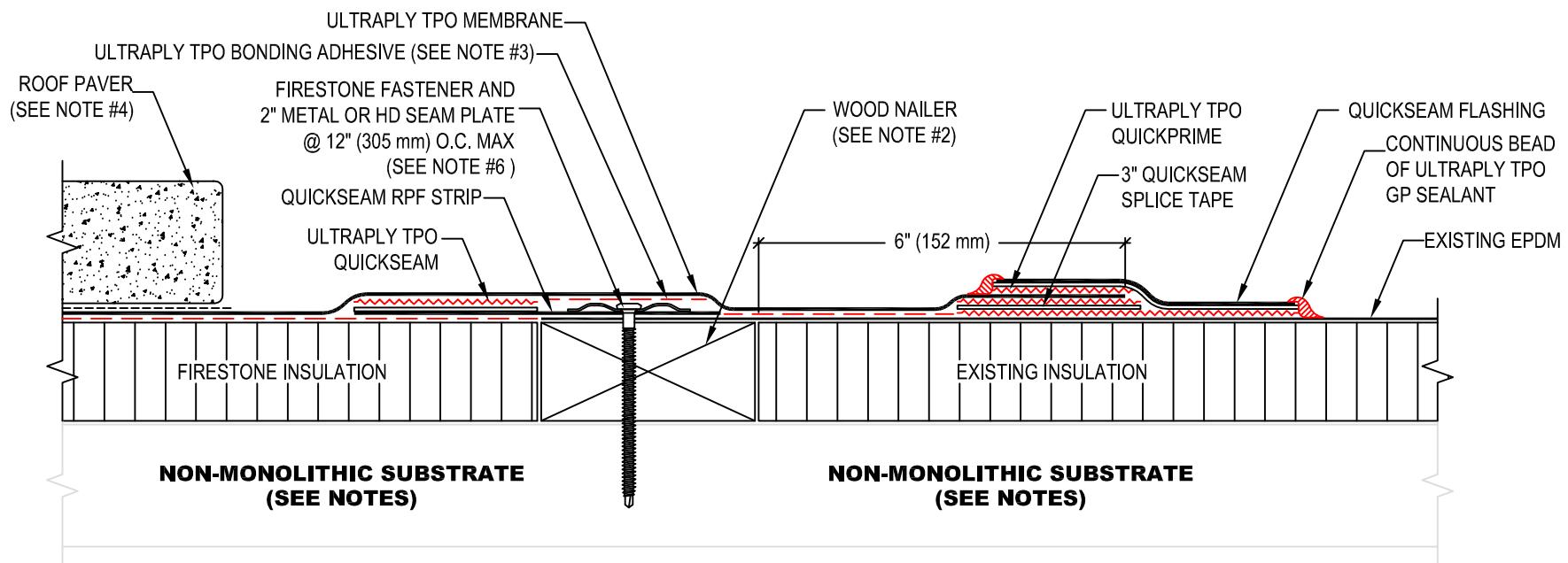


TIE-IN TO EXISTING ROOF SYSTEMS NOT WARRANTED BY FIRESTONE

MAXIMUM WARRANTY: **NONE**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 PER LINEAL FOOT IN ANY GIVEN DIRECTION.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. FIRESTONE ROOF PAVER (MIN 10LBS (4.5KG) PER SQ. FT.) INSTALLED OVER PROTECTION LAYER REQUIRED FOR BALLASTED SYSTEMS.
5. REFER TO UT-BT-24 FOR ADDITIONAL REQUIREMENTS FOR METAL ROOF DECKS
6. BATTEN STRIP MAY BE USED IN LIEU OF METAL STRIPS FOR MASS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS.
7. WHEN CHANGE IN ELEVATION OCCURS BETWEEN SYSTEMS, USE APPROPRIATE TAPERED INSULATION TO CREATE A SMOOTH TRANSITION.



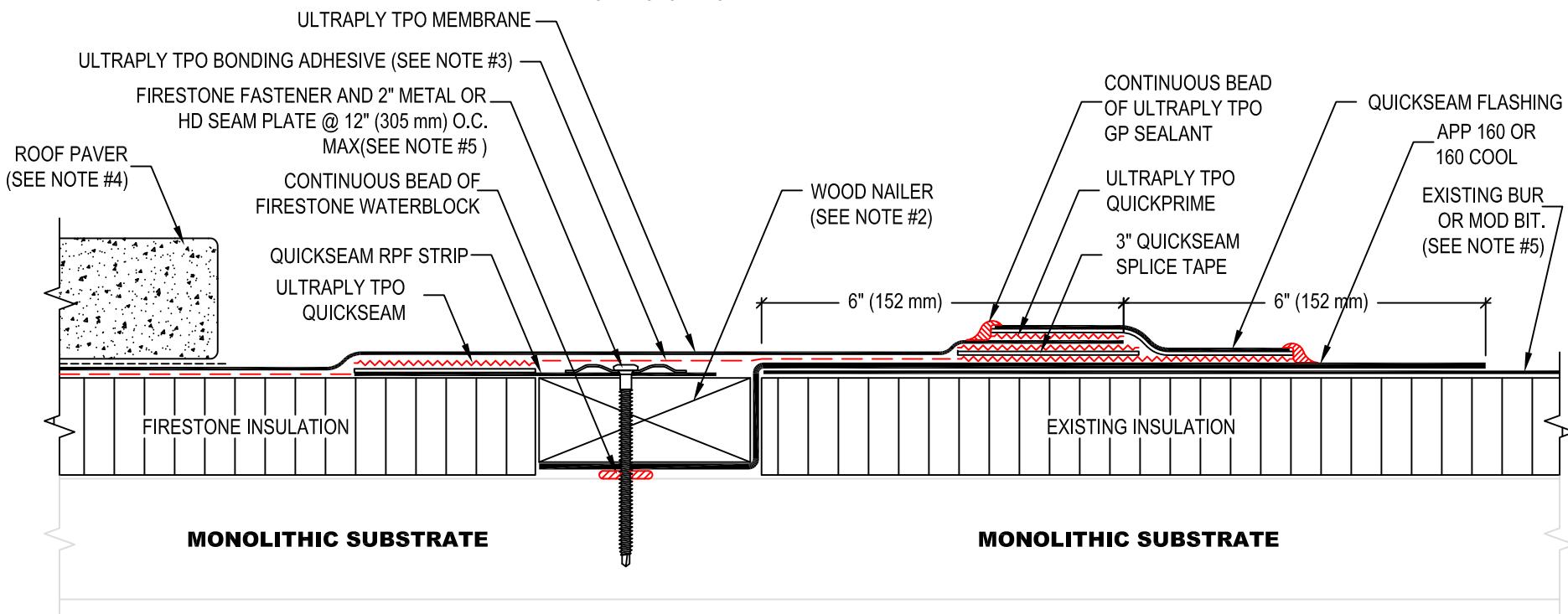
TIE-IN TO EXISTING ROOF SYSTEMS NOT WARRANTED BY FIRESTONE

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TIE-IN ULTRAPLY TPO SYSTEM TO EXISTING EPDM SYSTEM (NON-MONOLITHIC SUBSTRATE)		MAXIMUM WARRANTY: NONE ISSUE / REVISION DATE: 03/09/2017	DETAIL NO. UT-BT-21
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		

**EXTREME CARE SHOULD
BE TAKEN WHEN TORCHING
APP MEMBRANE NEAR
FLAMMABLE MATERIALS**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 PER LINEAL FOOT IN ANY GIVEN DIRECTION.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. FIRESTONE ROOF PAVER (MIN 10LBS (4.5 KG) PER SQ. FT.) INSTALLED OVER PROTECTION LAYER REQUIRED FOR BALLASTED SYSTEMS.
5. EXISTING GRAVEL SURFACE, IRREGULARITIES, MOISTURE, ETC. MUST BE REMOVED FROM EXISTING ASPHALT SYSTEM MEMBRANE PRIOR TO TIE-IN
6. BATTEN STRIP MAY BE USED IN LIEU OF METAL STRIPS FOR MASS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS.
7. WHEN CHANGE IN ELEVATION OCCURS BETWEEN SYSTEMS, USE APPROPRIATE TAPERED INSULATION TO CREATE A SMOOTH TRANSITION.

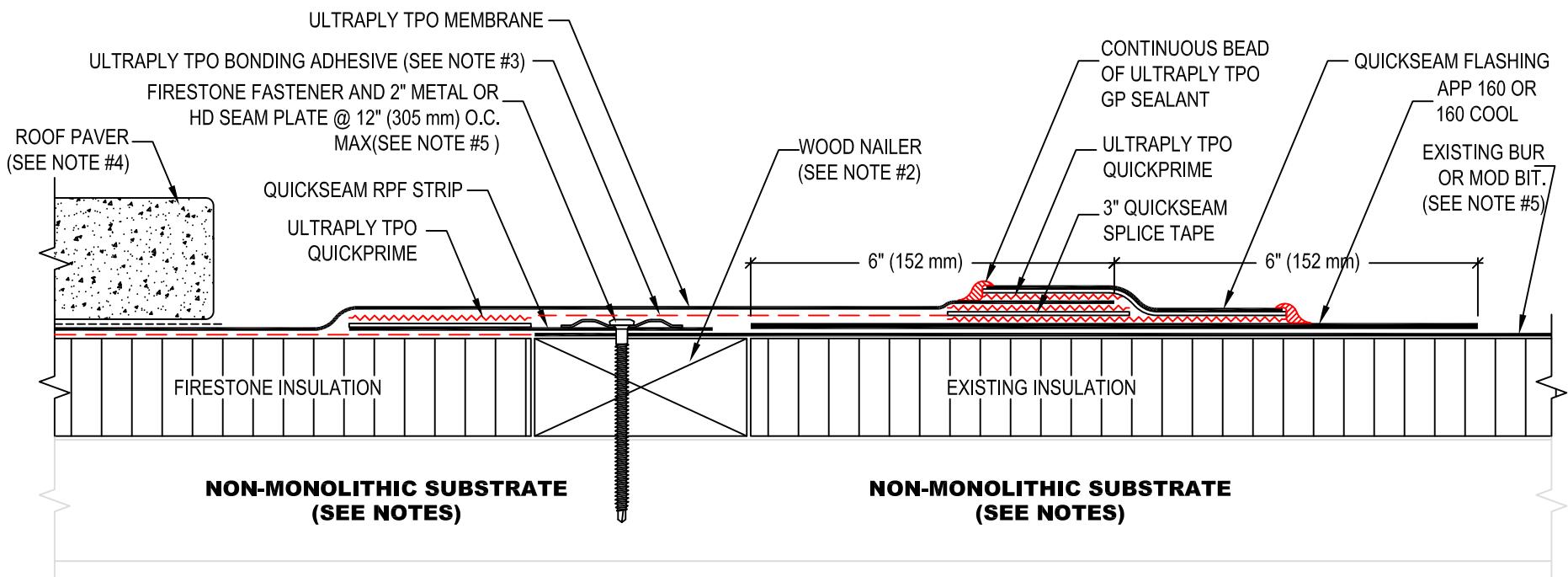


**TIE-IN TO EXISTING ROOF SYSTEMS NOT
WARRANTED BY FIRESTONE**

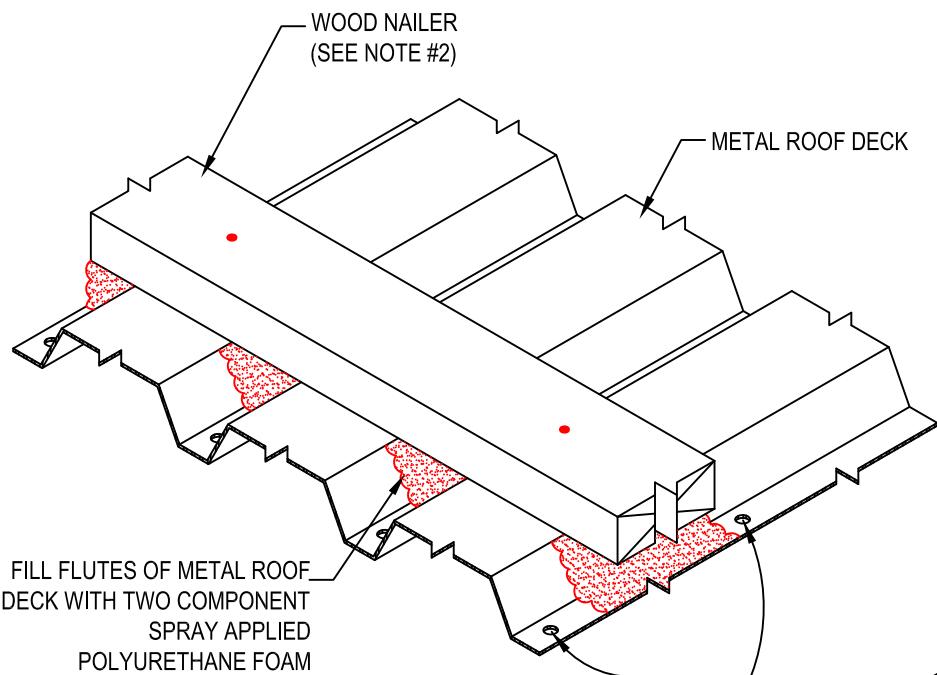
**EXTREME CARE SHOULD
BE TAKEN WHEN TORCHING
APP MEMBRANE NEAR
FLAMMABLE MATERIALS**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 PER LINEAL FOOT IN ANY GIVEN DIRECTION.
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. FIRESTONE ROOF PAVER (MIN 10LBS (4.5 KG) PER SQ. FT.) INSTALLED OVER PROTECTION LAYER REQUIRED FOR BALLASTED SYSTEMS.
5. EXISTING GRAVEL SURFACE, IRREGULARITIES, MOISTURE, ETC. MUST BE REMOVED FROM EXISTING ASPHALT SYSTEM MEMBRANE PRIOR TO TIE-IN.
6. BATTEN STRIP MAY BE USED IN LIEU OF METAL STRIPS FOR MASS AND FULLY ADHERED SYSTEMS ONLY. REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS.
7. WHEN CHANGE IN ELEVATION OCCURS BETWEEN SYSTEMS, USE APPROPRIATE TAPERED INSULATION TO CREATE A SMOOTH TRANSITION.



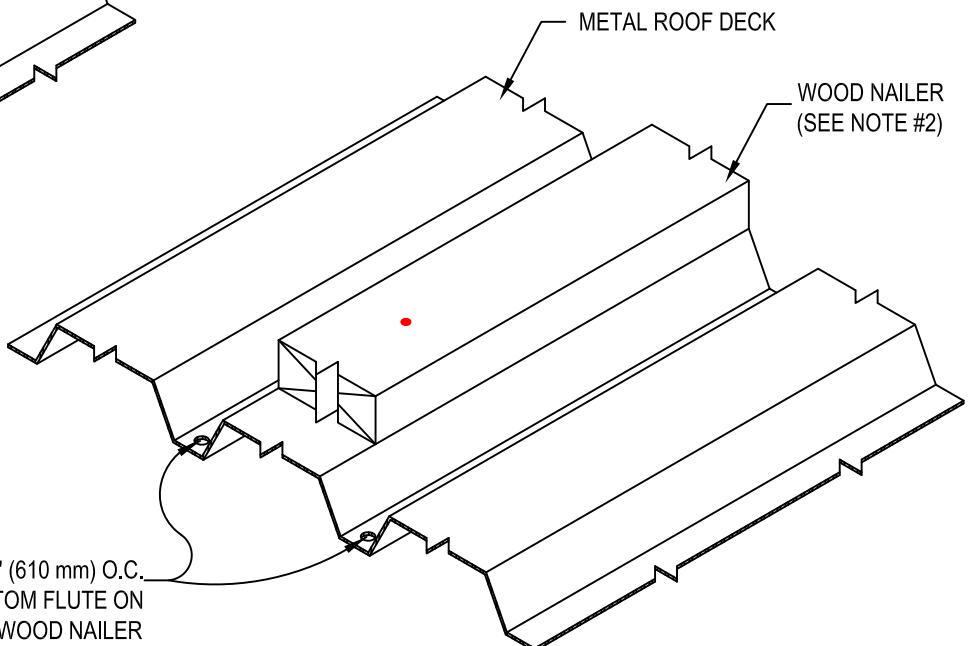
**TIE-IN TO EXISTING ROOF SYSTEMS NOT
WARRANTED BY FIRESTONE**



DRILL HOLES THROUGH EACH
BOTTOM FLUTE ON BOTH SIDES
OF WOOD NAILER
(FOR LEAK DETECTION PURPOSES)

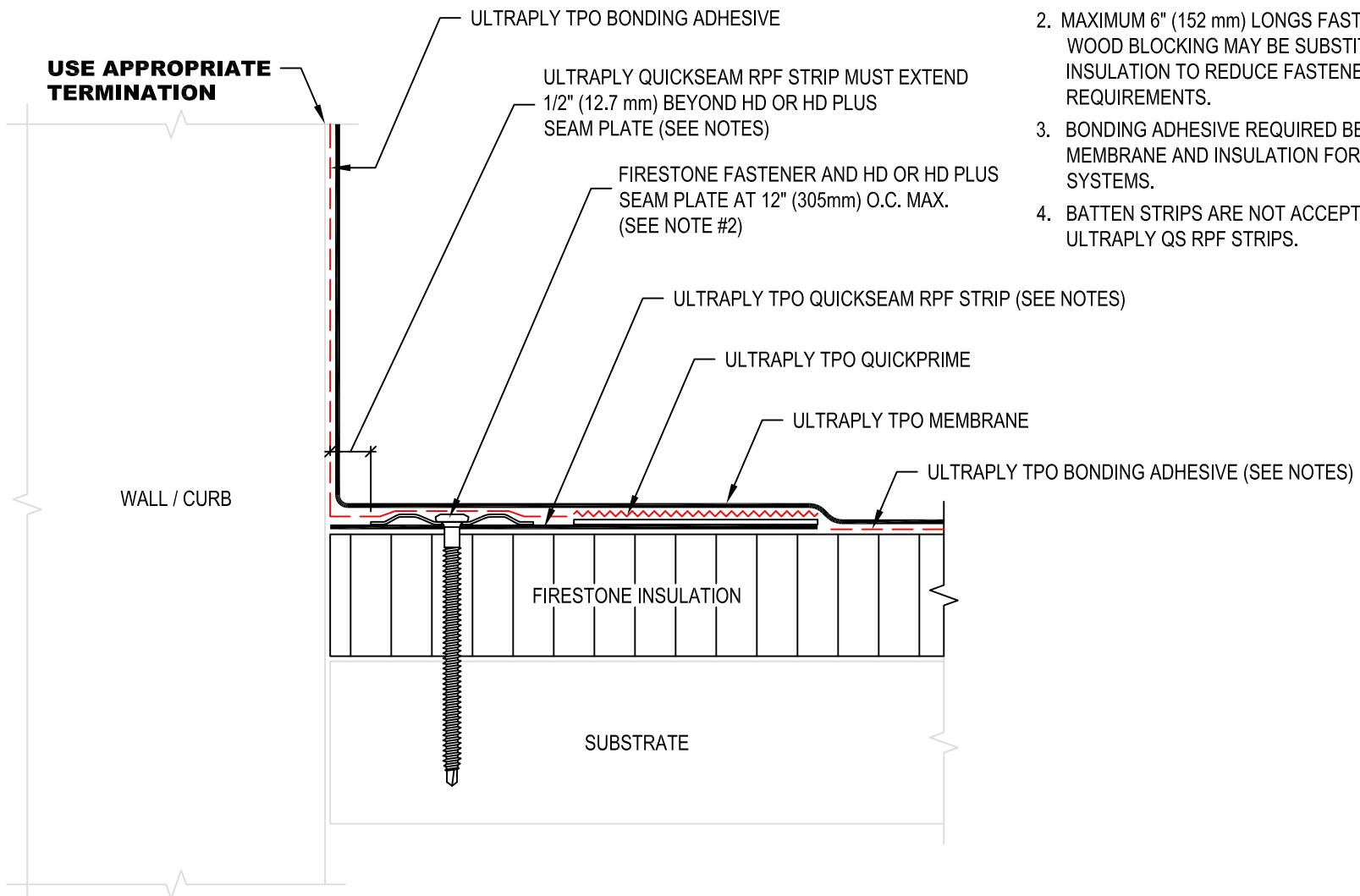
**REFER TO UT-BT-19,
UT-BT-21, OR UT-BT-23
FOR ADDITIONAL
SYSTEM TIE-IN
INFORMATION**

**TIE-IN TO EXISTING ROOF SYSTEMS NOT
WARRANTED BY FIRESTONE**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 PER LINEAL FOOT IN ANY GIVEN DIRECTION.



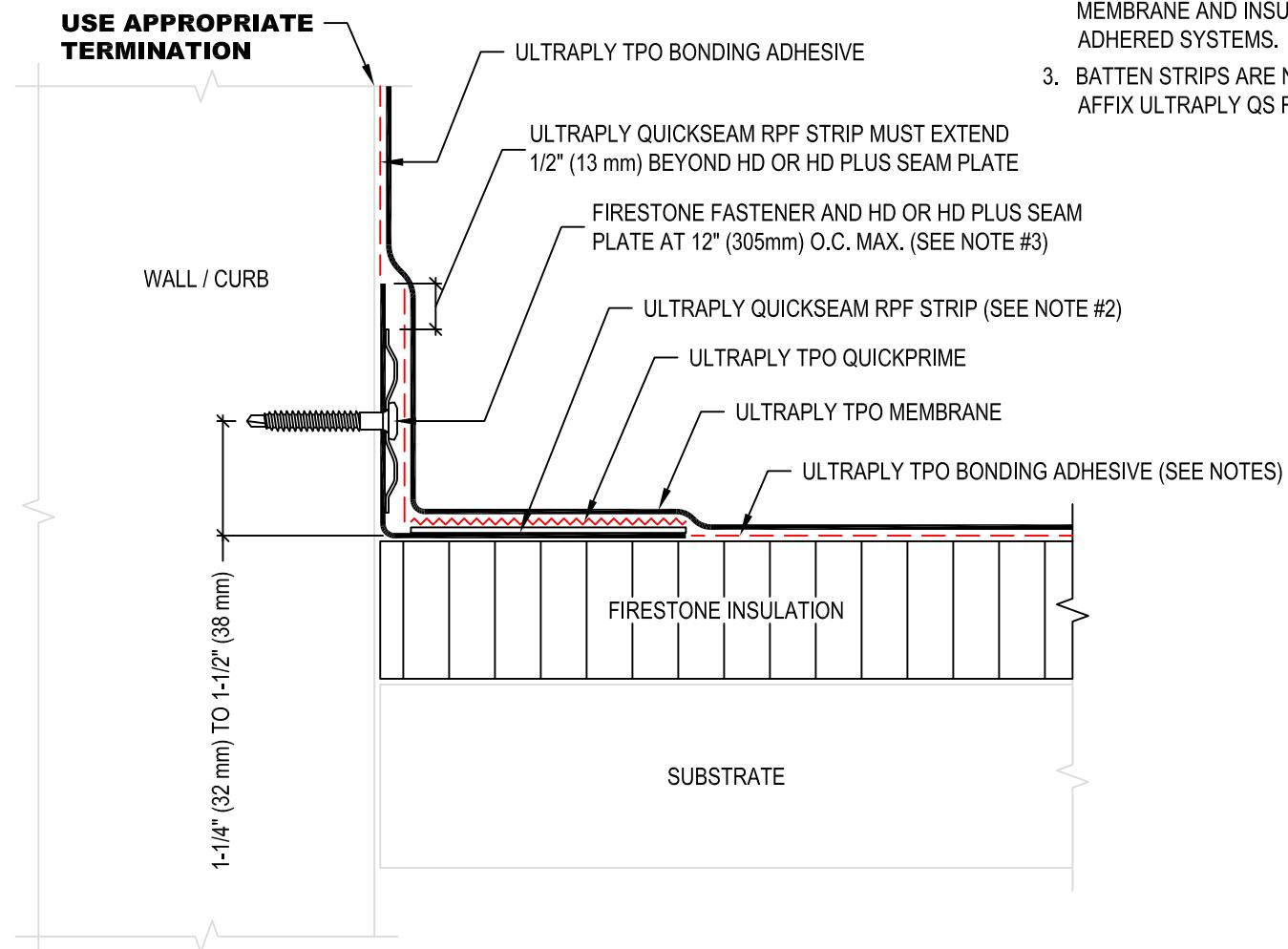
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. MAXIMUM 6" (152 mm) LONGS FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS.)
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
4. BATTEN STRIPS ARE NOT ACCEPTABLE TO AFFIX ULTRAPLY QS RPF STRIPS.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	BASE TIE-IN WITH ULTRAPLY TPO QUICKSEAM RPF AND HD SEAM PLATES FASTENED TO DECK	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 6/26/2014	DETAIL NO. UT-BT-25
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
3. BATTEN STRIPS ARE NOT ACCEPTABLE TO AFFIX ULTRAPLY QS RPF STRIPS.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

BASE TIE-IN WITH ULTRAPLY QUICKSEAM RPF AND HD SEAM PLATES FASTENED TO WALL / CURB

ULTRAPLY™ TPO

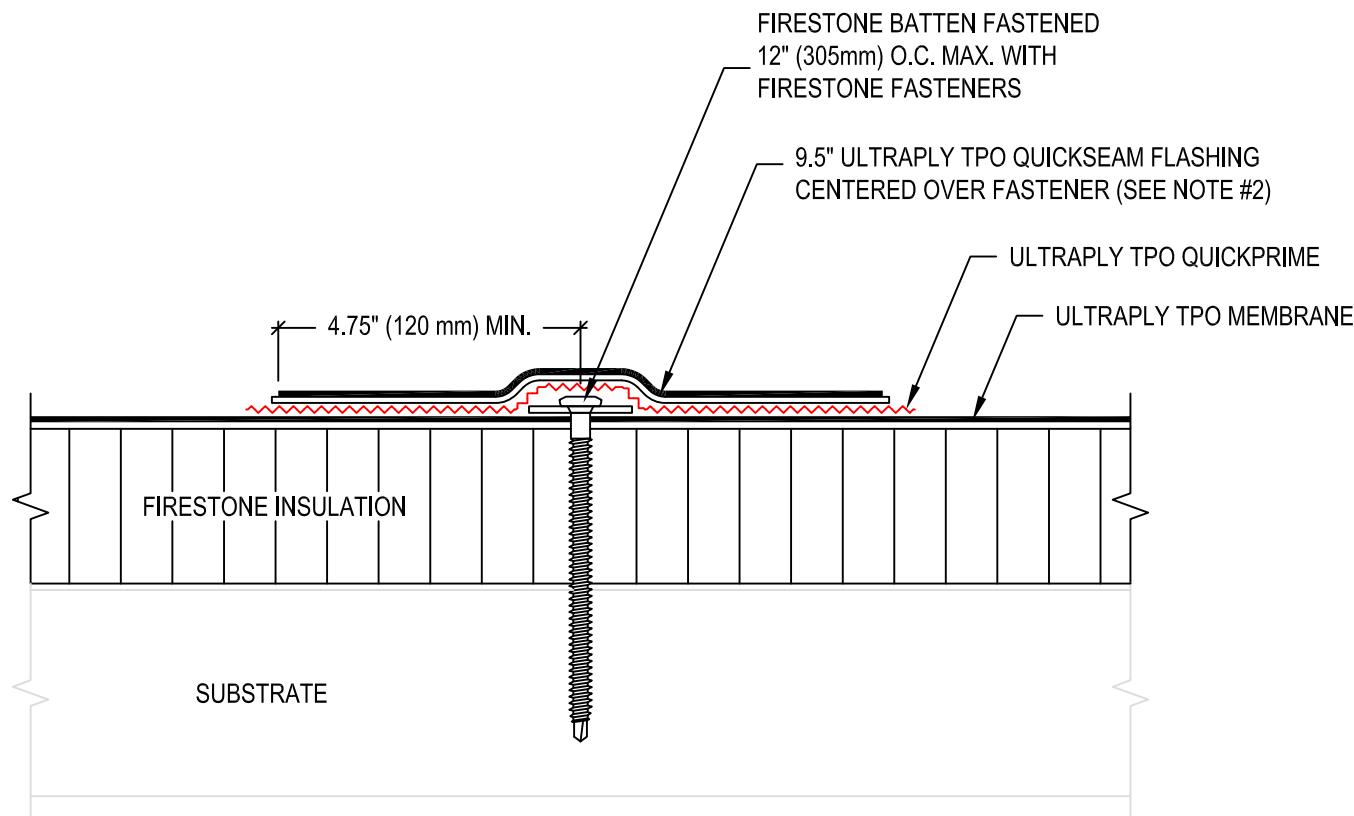
ACCEPTABLE SYSTEMS: **ALL**

ISSUE / REVISION DATE:
6/26/2014
NOT TO SCALE

DETAIL NO.
UT-BT-26

NOTES:

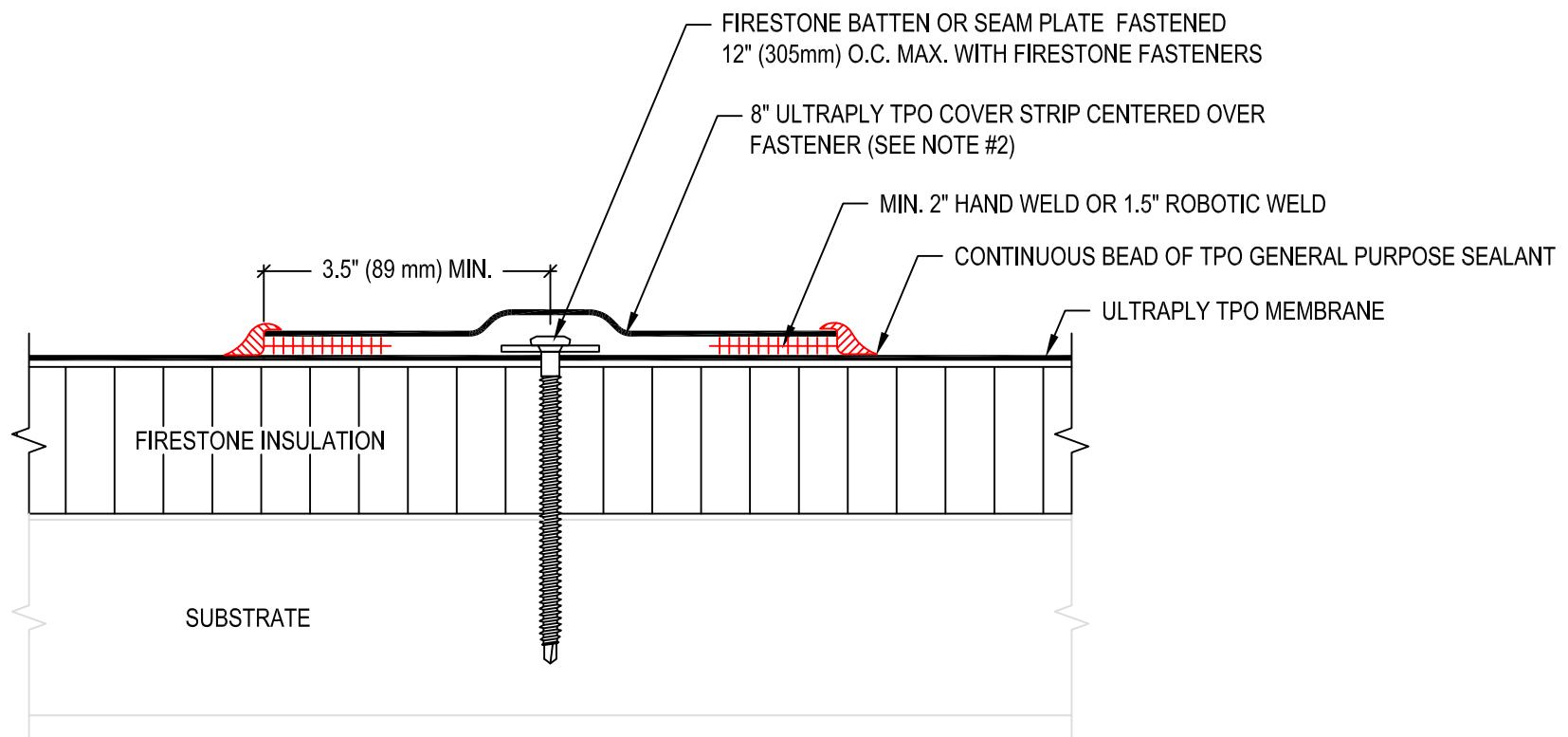
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE HD OR HD PLUS SEAM PLATE WITH FASTENERS ARE ACCEPTABLE IN LIEU OF BATTEN BAR.



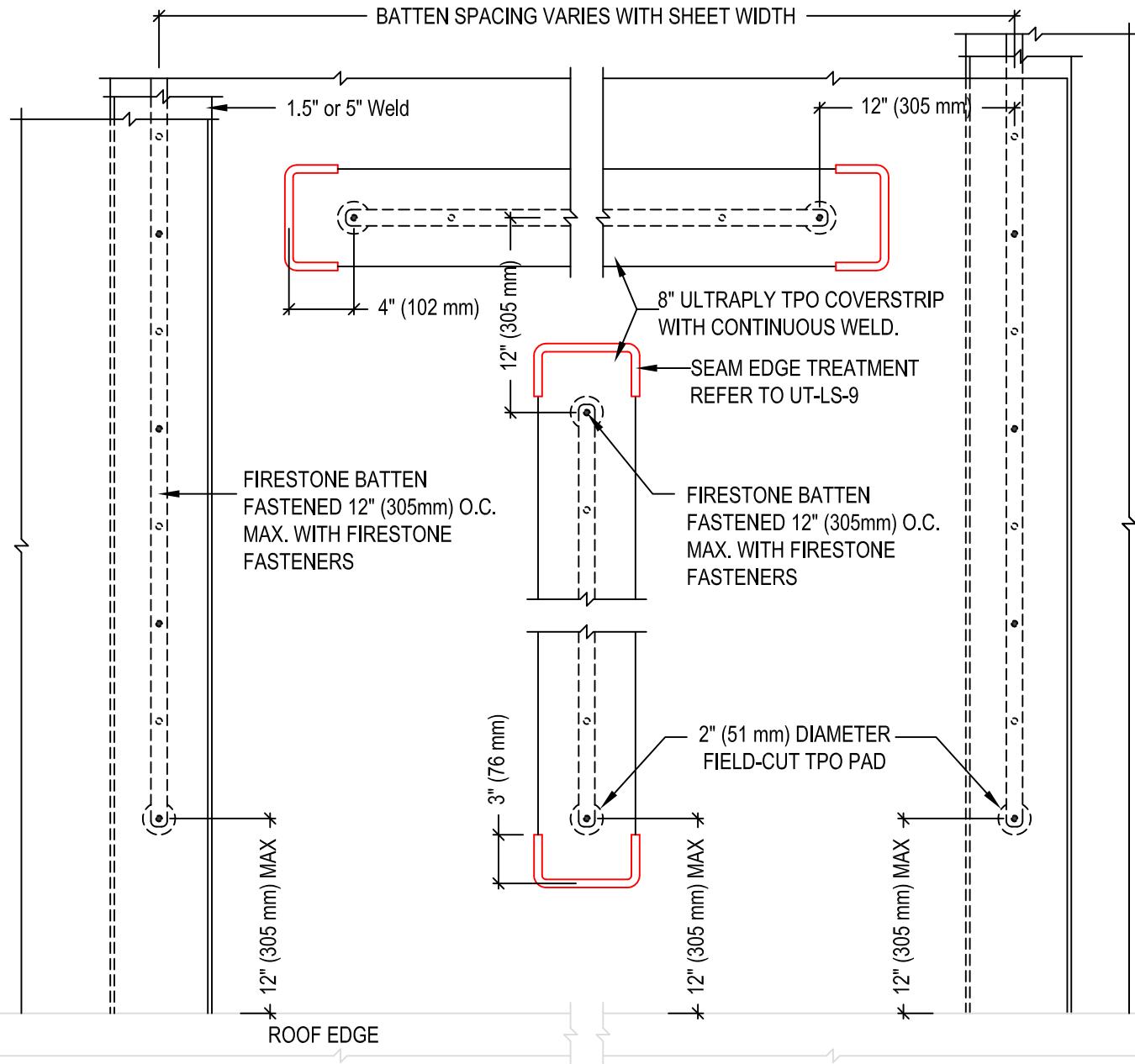
MAXIMUM WARRANTY: **20 YEARS**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE HD OR HD PLUS SEAM PLATE WITH FASTENERS ARE ACCEPTABLE IN LIEU OF BATTE BAR.

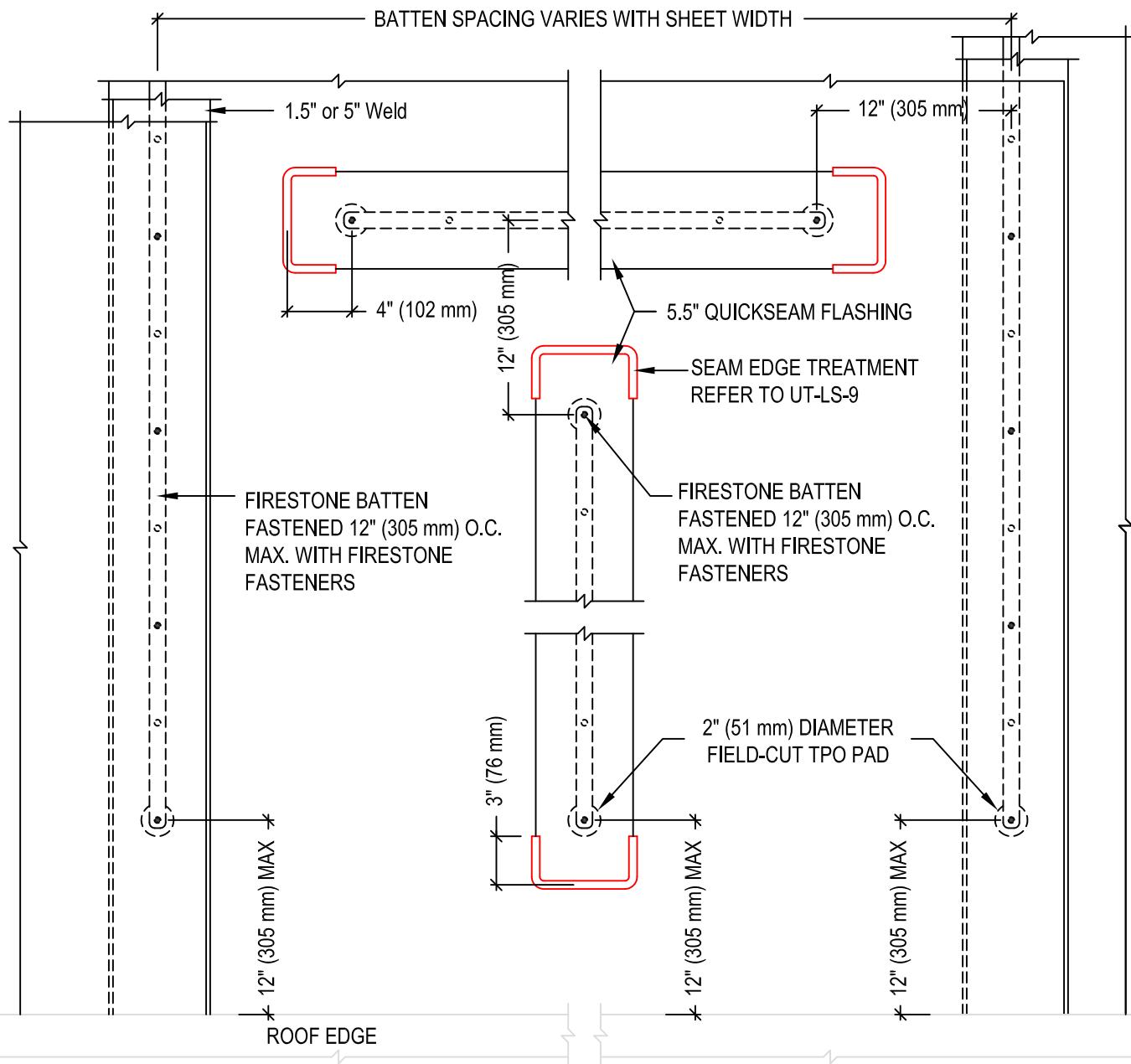


MAXIMUM WARRANTY: **20 YEARS**



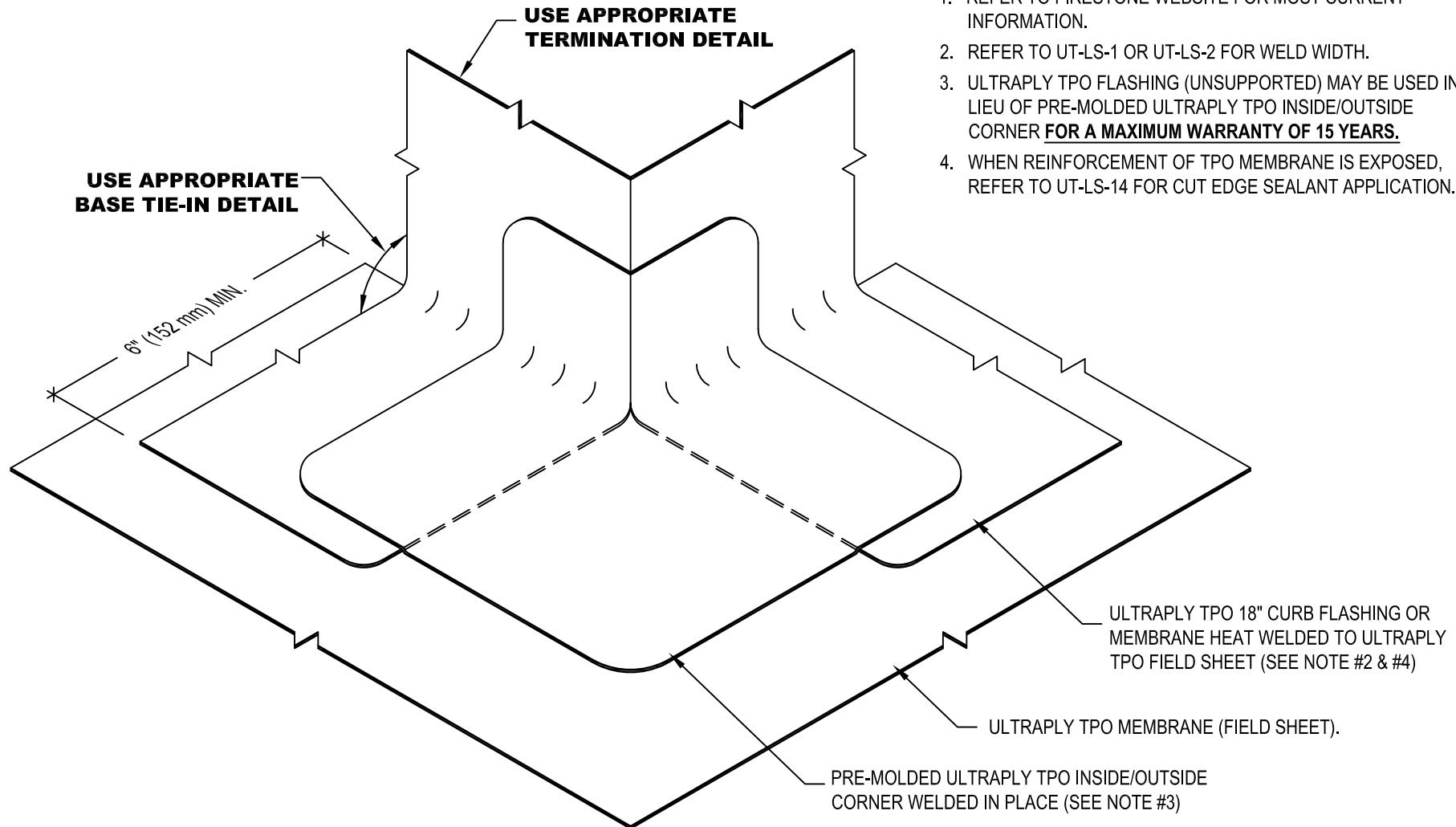
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-BT-26 FOR QUICKSEAM BATTEN COVER DETAIL.
3. FIRESTONE HD OR HD PLUS SEAM PLATES WITH FASTENERS ARE ACCEPTABLE IN LIEU OF BATTEN BAR.



NOTES:

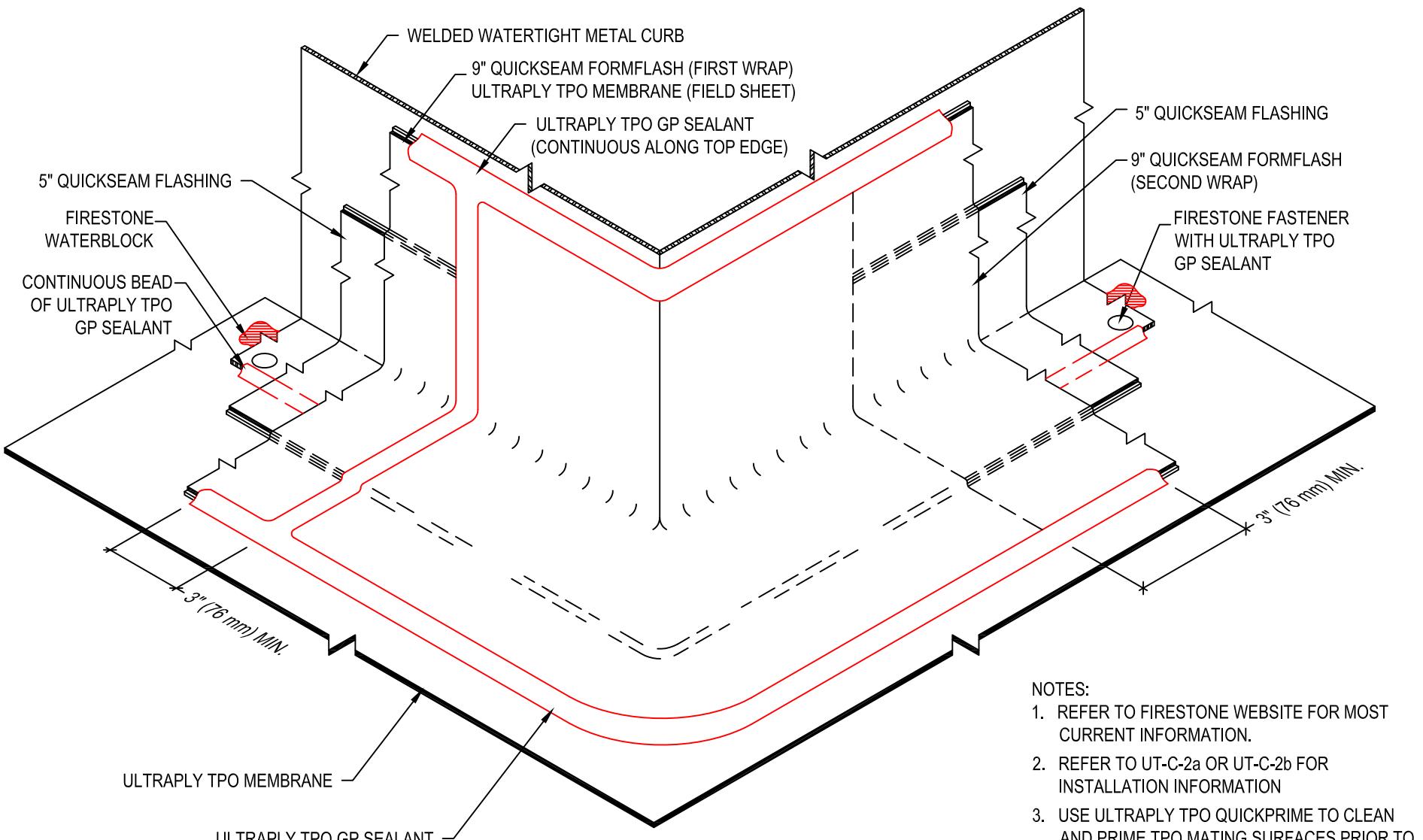
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-BT-26 FOR QUICKSEAM BATTEN COVER DETAIL.
3. FIRESTONE HD OR HD PLUS SEAM PLATES WITH FASTENERS ARE ACCEPTABLE IN LIEU OF BATTEN BAR.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-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.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	OUTSIDE CORNER		MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 7/01/2014
			NOT TO SCALE
			DETAIL NO. UT-C-1

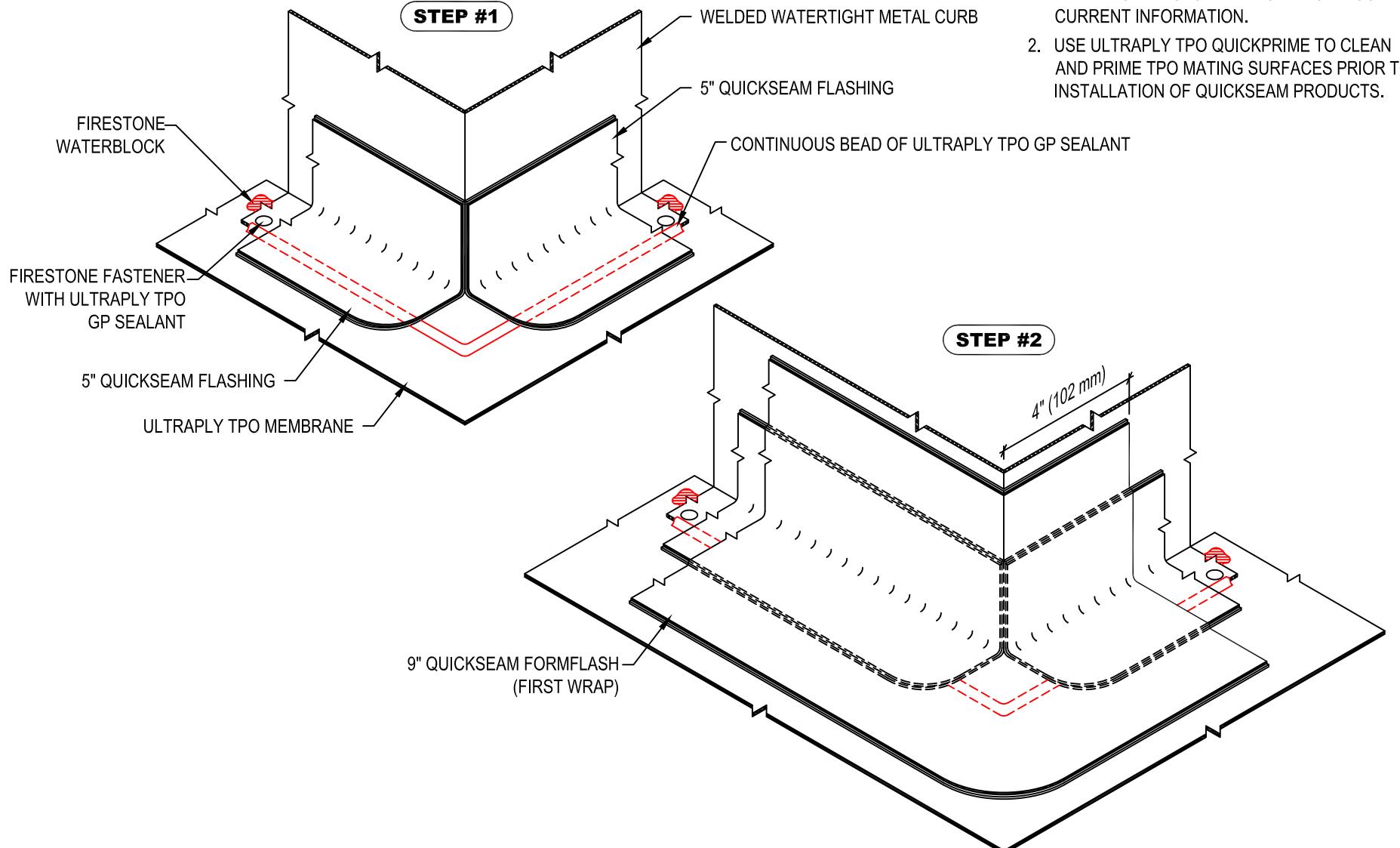


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-C-2a OR UT-C-2b FOR INSTALLATION INFORMATION
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

MAXIMUM WARRANTY: 15 YEARS

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	OUTSIDE CORNER AT WELDED WATERTIGHT CURB (FLANGES UNDER 2")	ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-C-2
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

MAXIMUM WARRANTY: **15 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

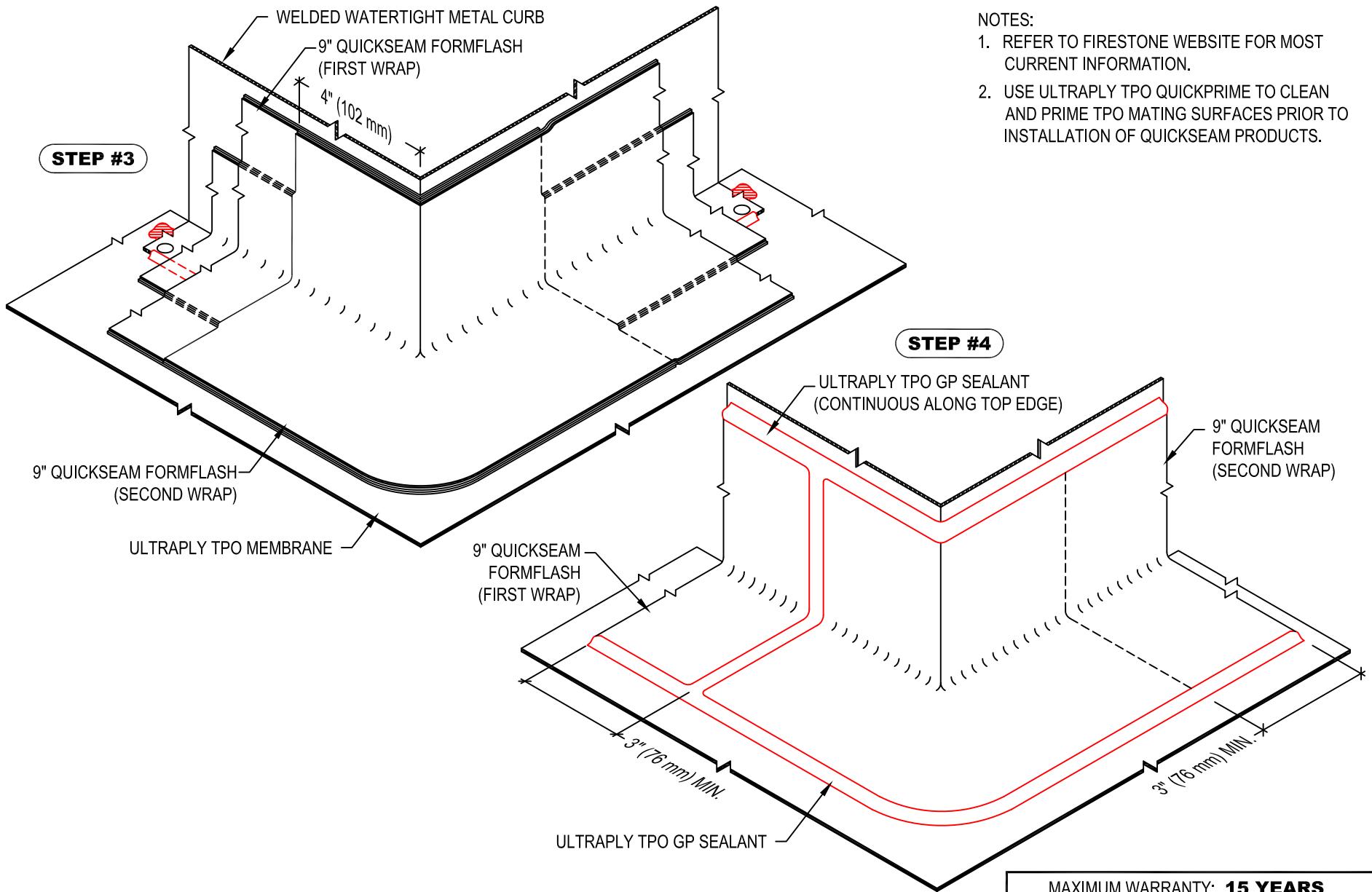
**OUTSIDE CORNER AT WELDED WATERTIGHT CURB
(FLANGES UNDER 2") INSTALLATION STEPS 1 & 2**

ULTRAPLY™ TPO

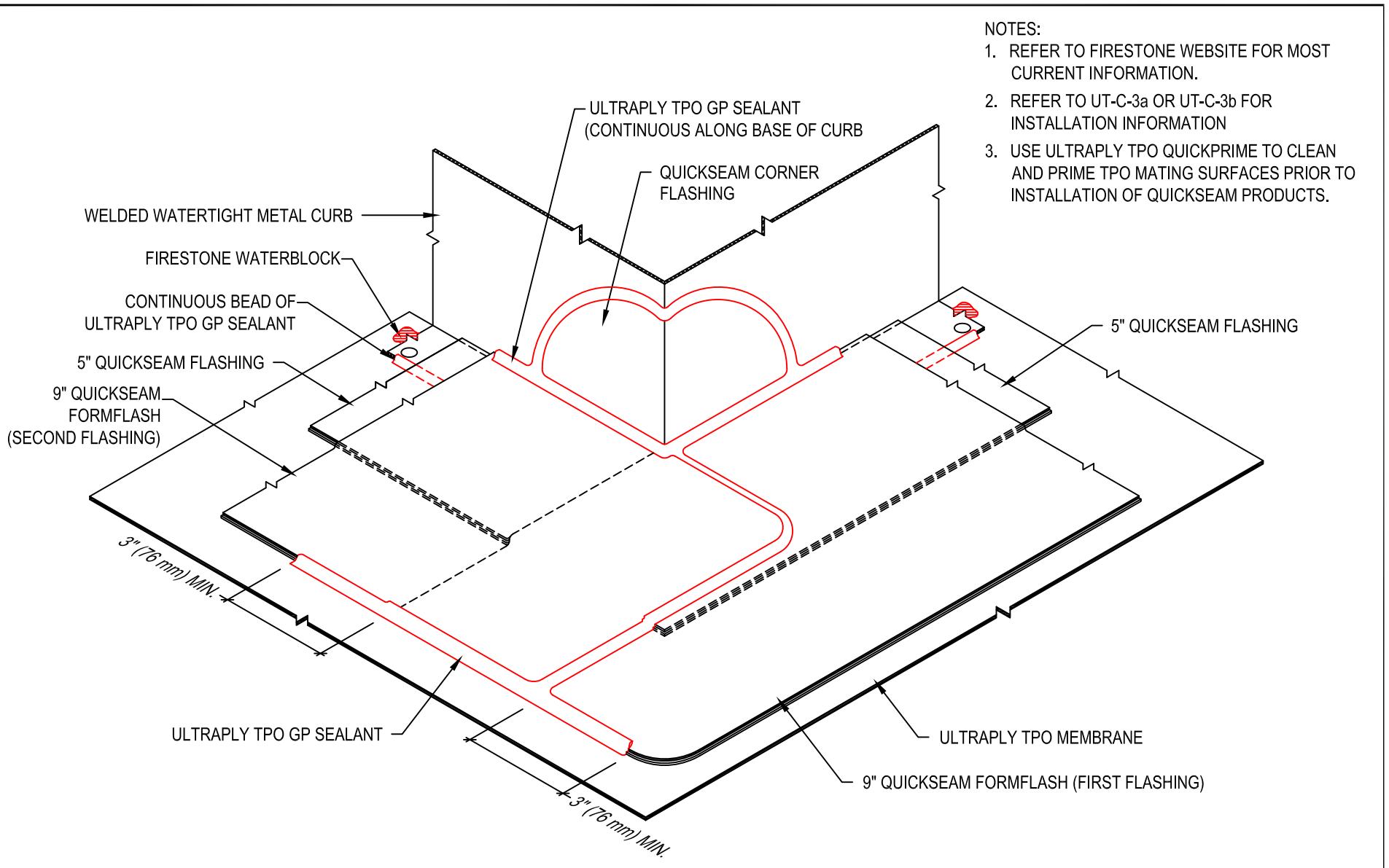
ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-C-2a



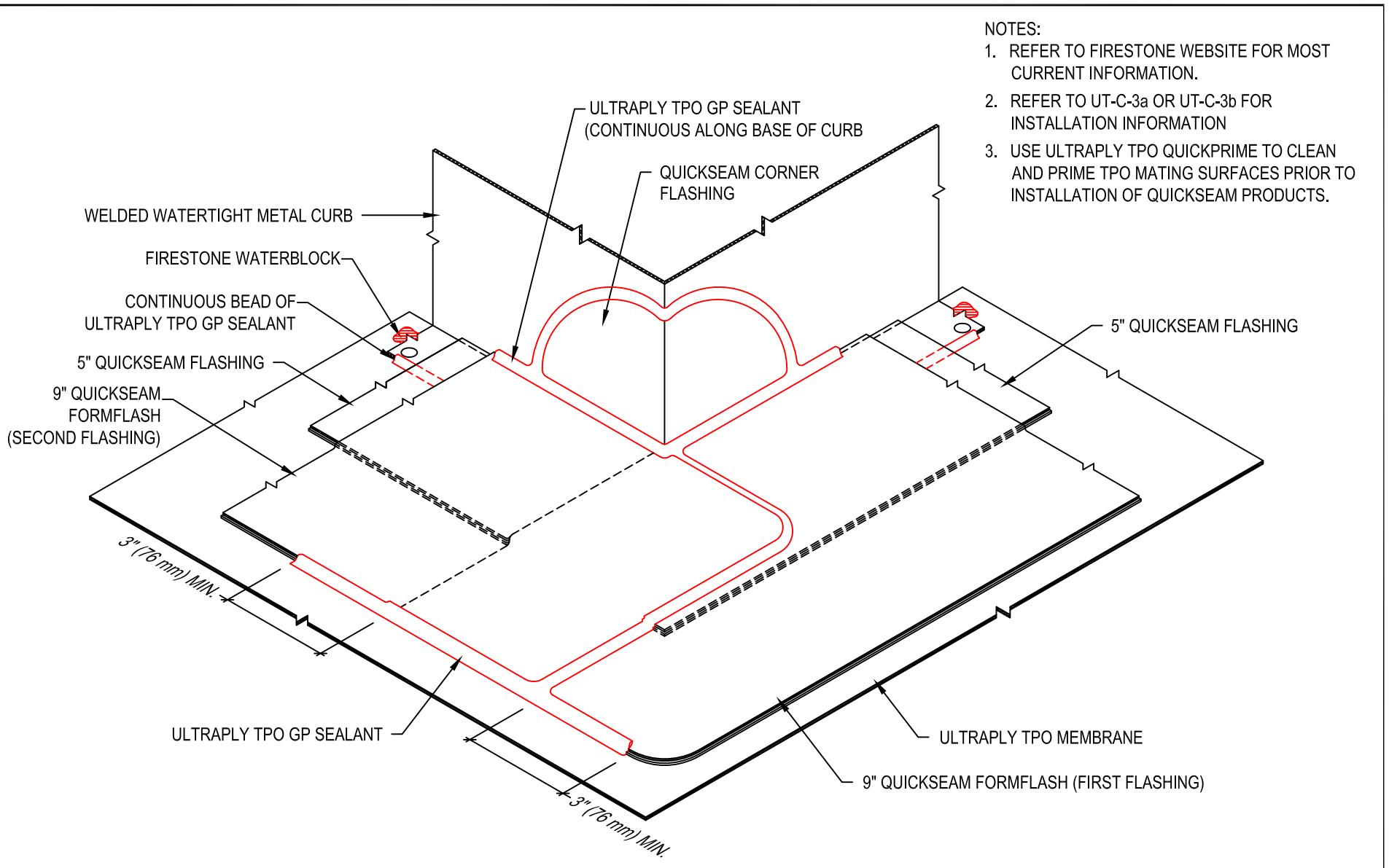
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	OUTSIDE CORNER AT WELDED WATERTIGHT CURB (FLANGES UNDER 2") INSTALLATION STEPS 3 & 4		MAXIMUM WARRANTY: 15 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 7/01/2014
			DETAIL NO. UT-C-2b
			NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-C-3a OR UT-C-3b FOR INSTALLATION INFORMATION
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	OUTSIDE CORNER AT WELDED WATERTIGHT CURB (FLANGES 2"-3")	MAXIMUM WARRANTY: 15 YEARS	
		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-C-3
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

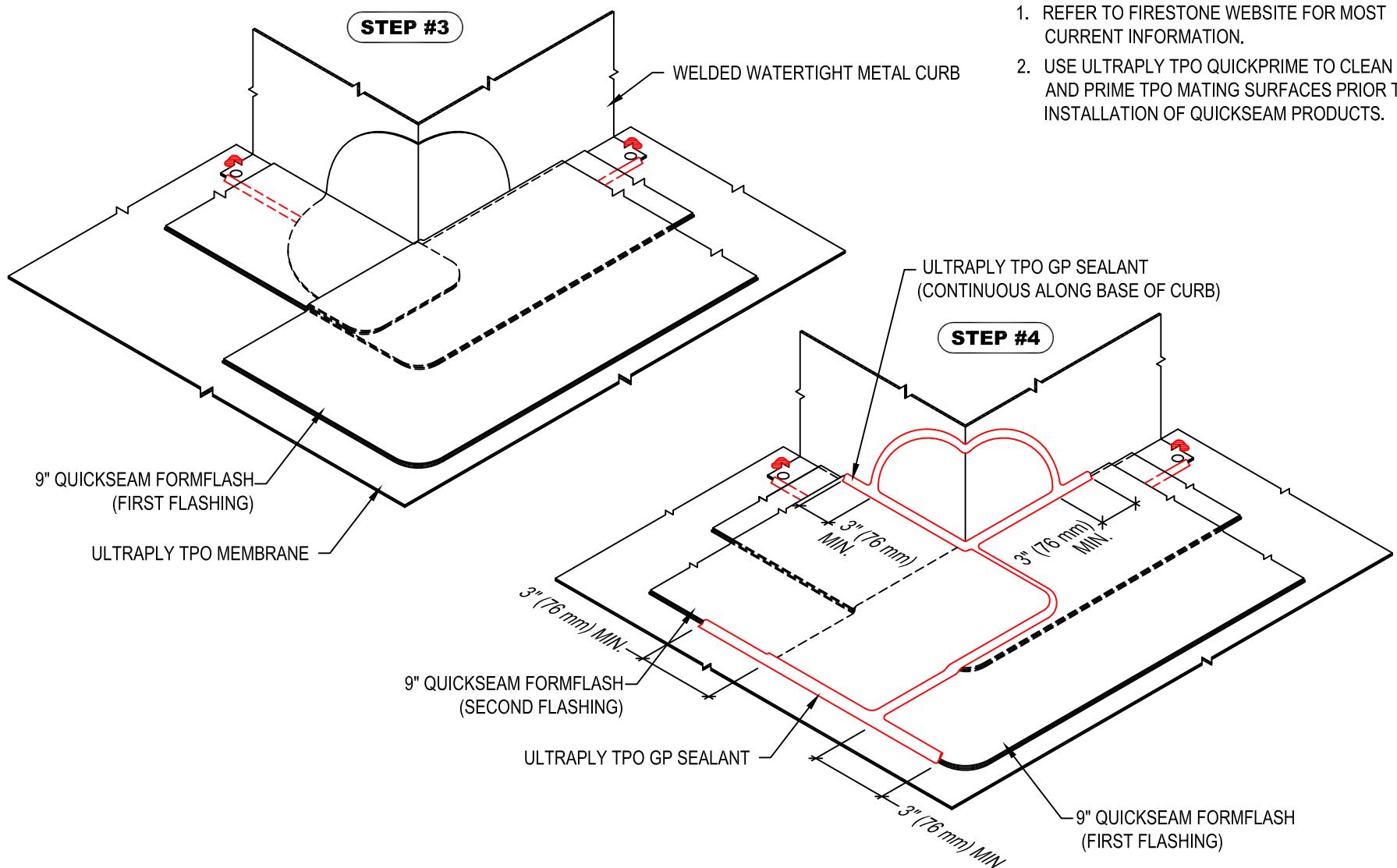


Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	OUTSIDE CORNER AT WELDED WATERTIGHT CURB (FLANGES 2"-3")	MAXIMUM WARRANTY: 15 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/01/2014

NOT TO SCALE

DETAIL NO.
UT-C-3



MAXIMUM WARRANTY: **15 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

**OUTSIDE CORNER AT WELDED WATERTIGHT CURB
(FLANGES 2"-3") INSTALLATION STEPS 3 & 4**

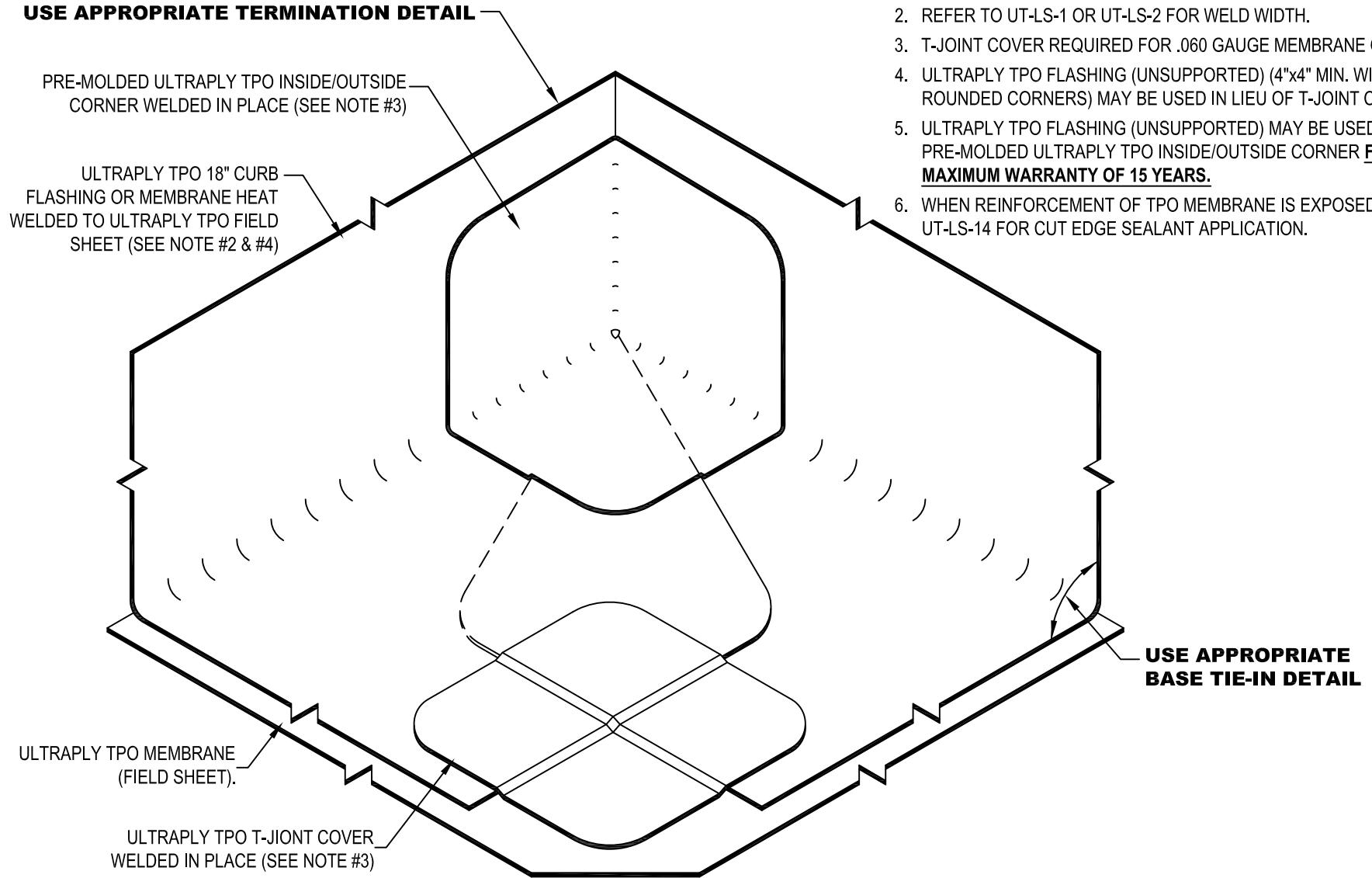
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-C-3b

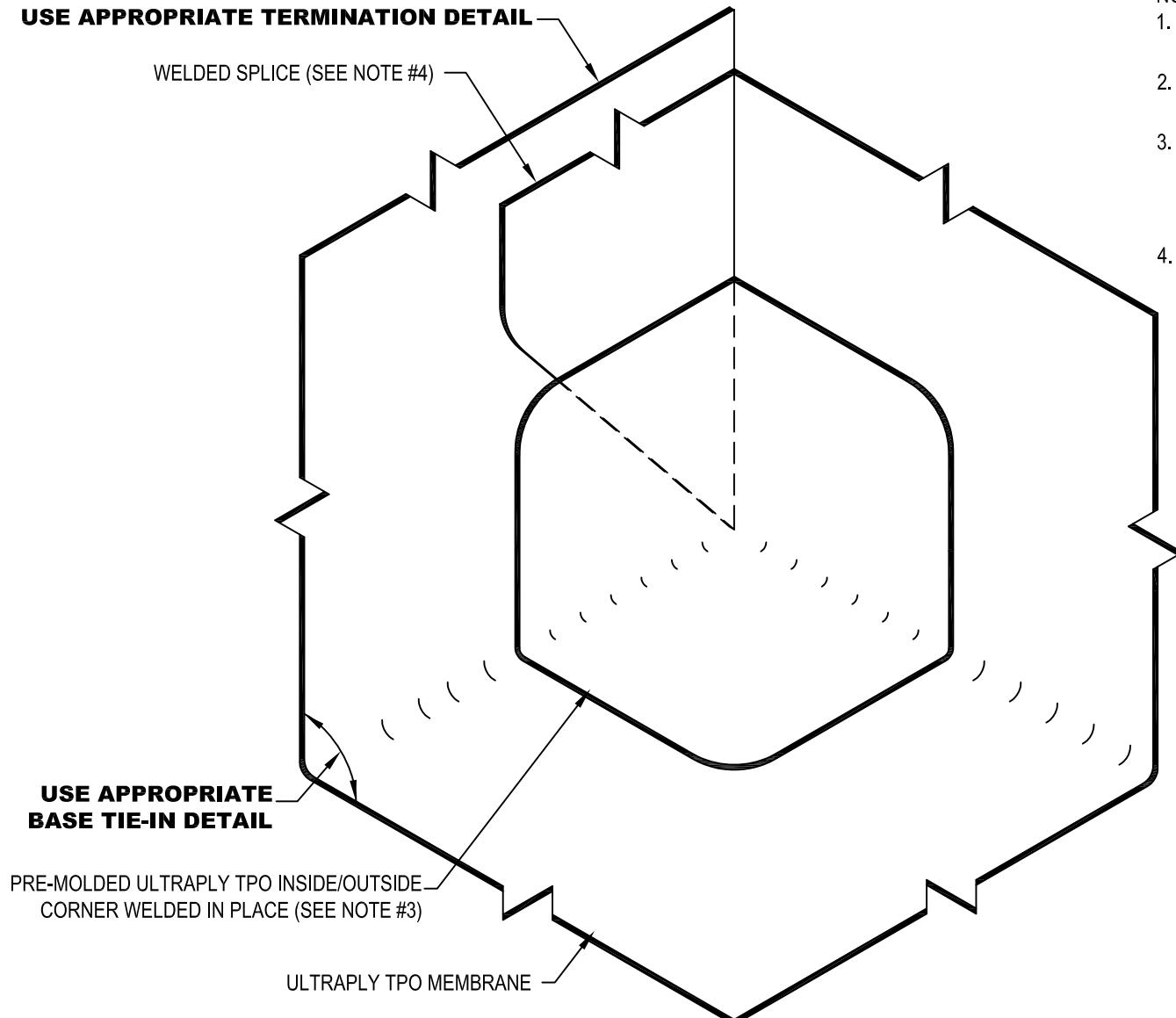
USE APPROPRIATE TERMINATION DETAIL



NOTES:

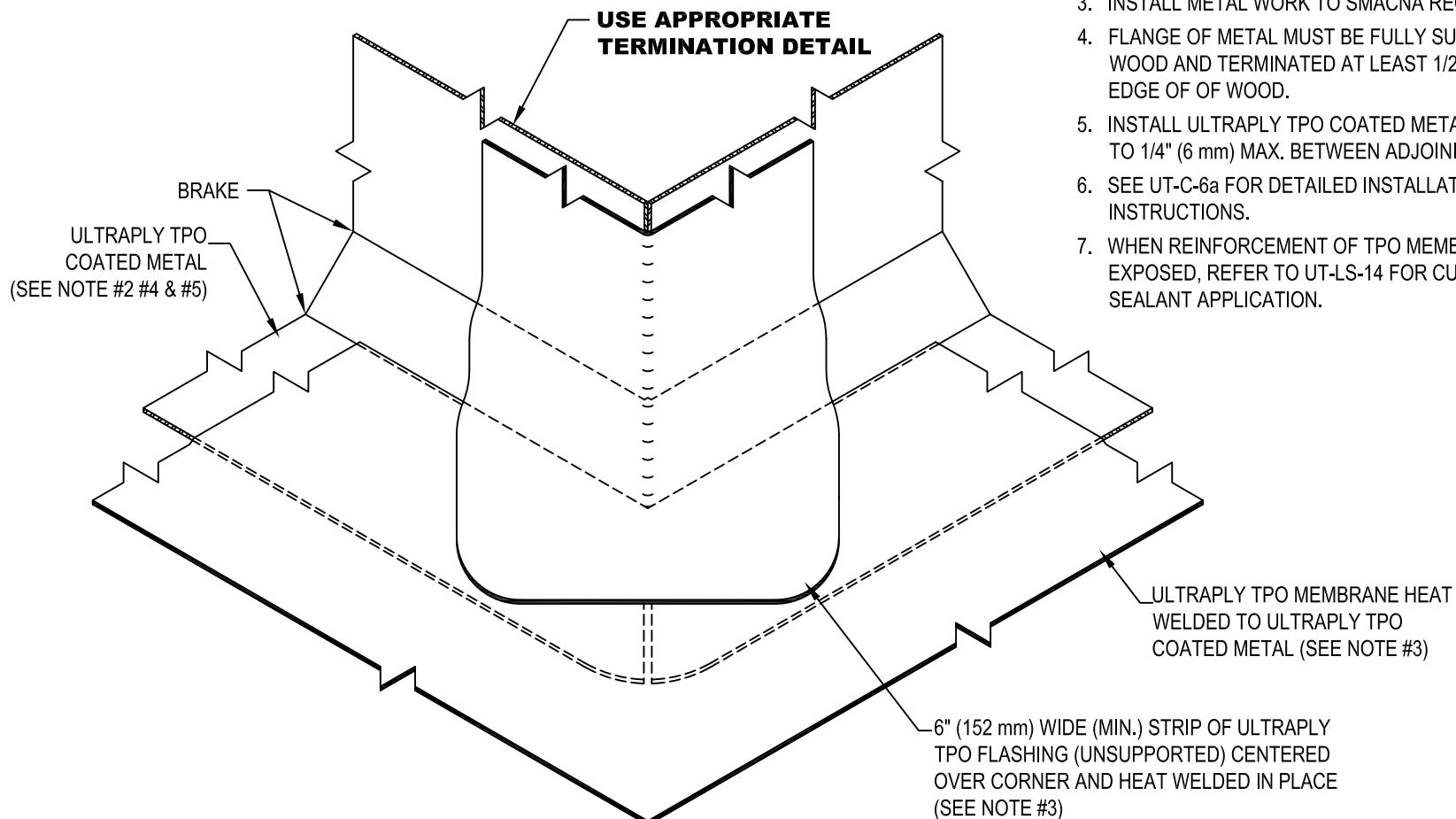
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. T-JOINT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4"x4" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.
5. ULTRAPLY TPO FLASHING (UNSUPPORTED) 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.

MAXIMUM WARRANTY: 20 YEARS

USE APPROPRIATE TERMINATION DETAIL**NOTES:**

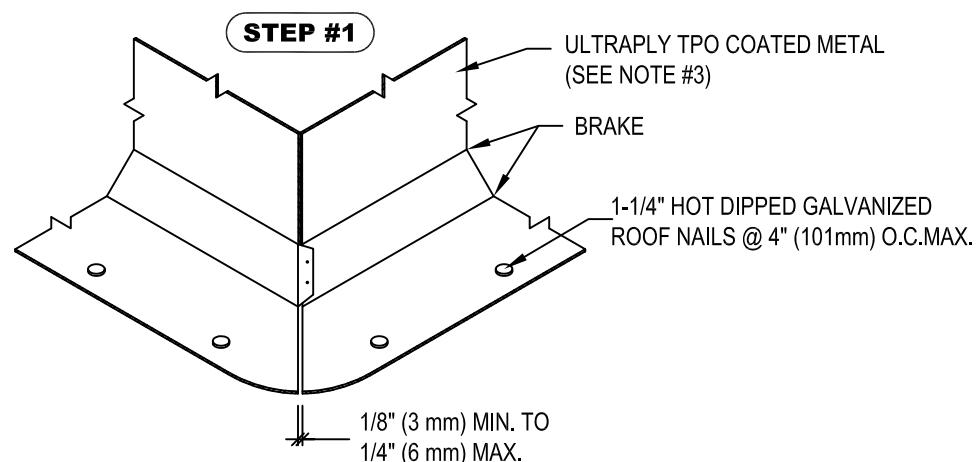
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER **FOR A MAXIMUM WARRANTY OF 15 YEARS.**
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED,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

MAXIMUM WARRANTY: 20 YEARS



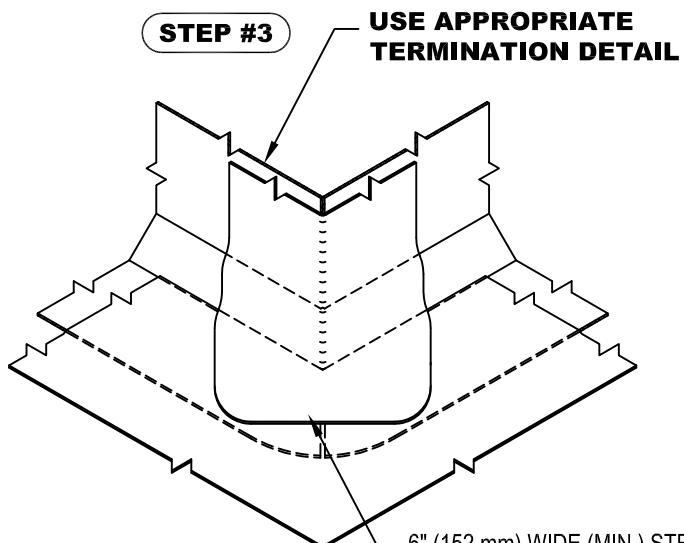
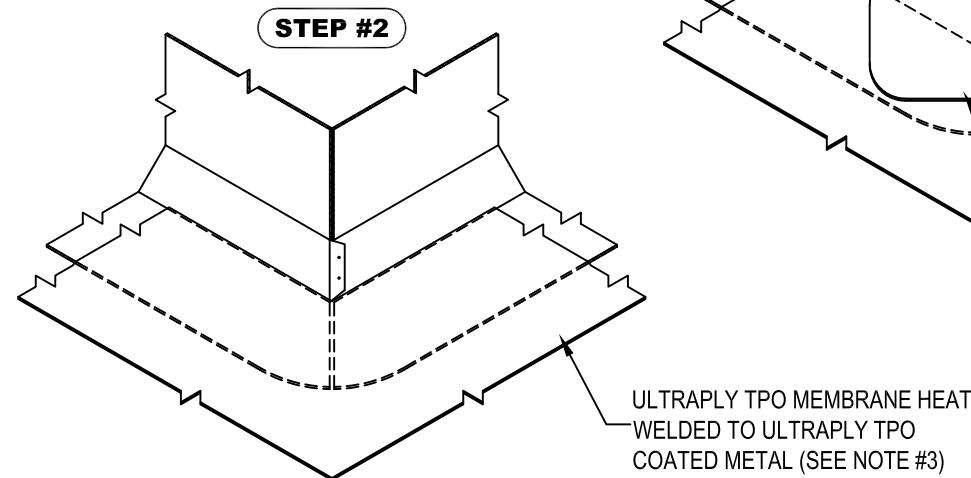
- NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
 3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
 4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
 5. INSTALL ULTRAPLY TPO COATED METAL WITH 1/8" (3mm) TO 1/4" (6 mm) MAX. BETWEEN ADJOINING SECTIONS.
 6. SEE UT-C-6a FOR DETAILED INSTALLATION INSTRUCTIONS.
 7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	OUTSIDE CORNER WITH ULTRAPLY TPO COATED METAL (WITH BRAKE) ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	MAXIMUM WARRANTY: 20 YEARS
			ISSUE / REVISION DATE: 7/01/2014
			DETAIL NO. UT-C-6
			NOT TO SCALE

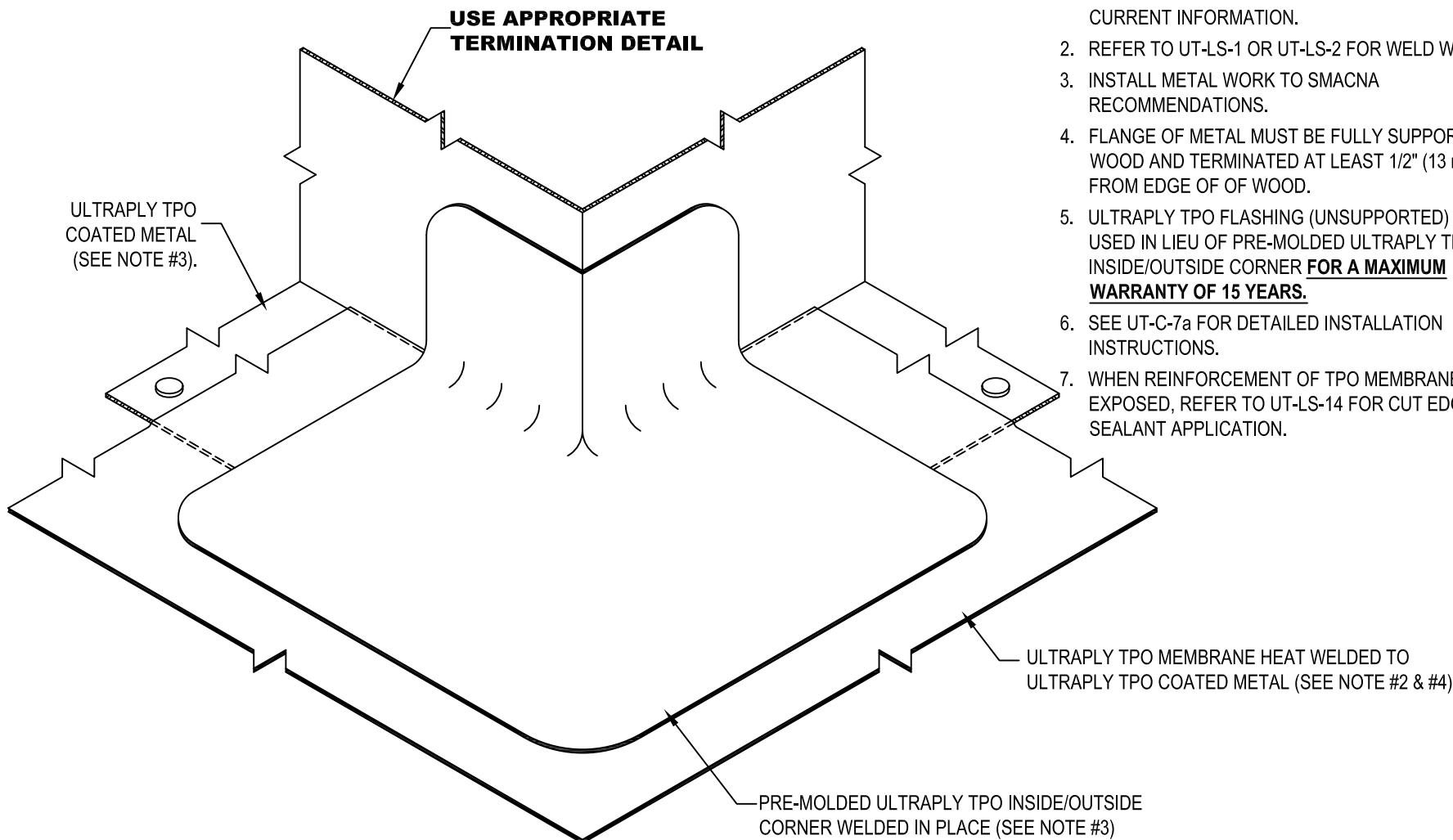


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



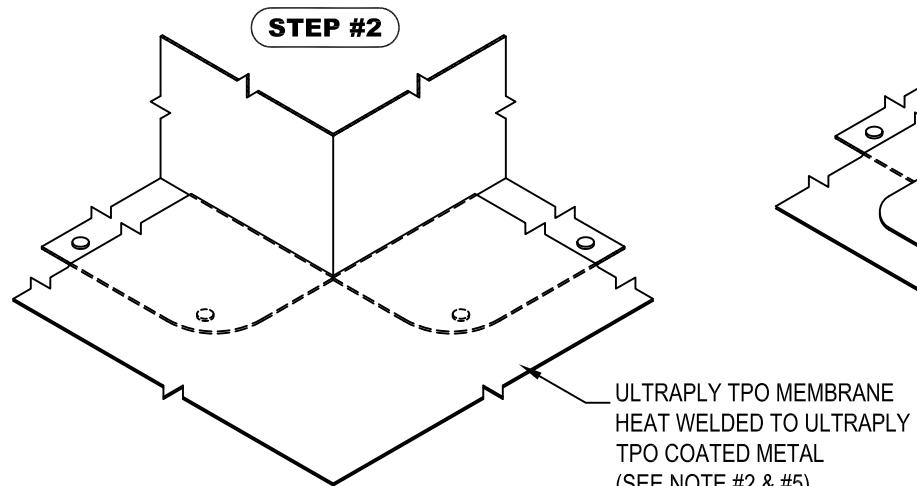
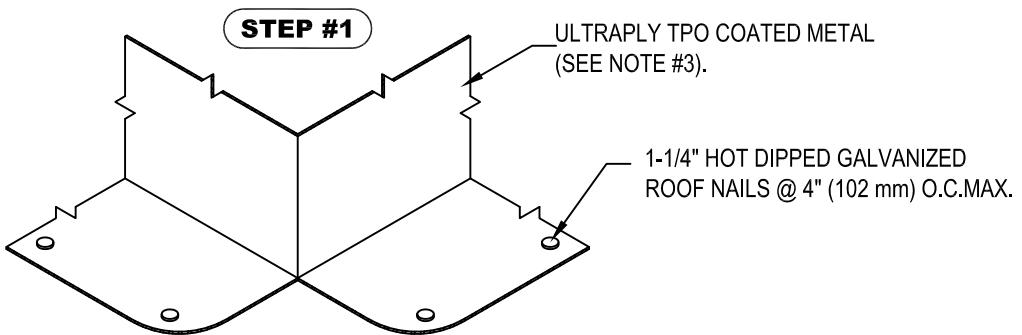
MAXIMUM WARRANTY: **20 YEARS**



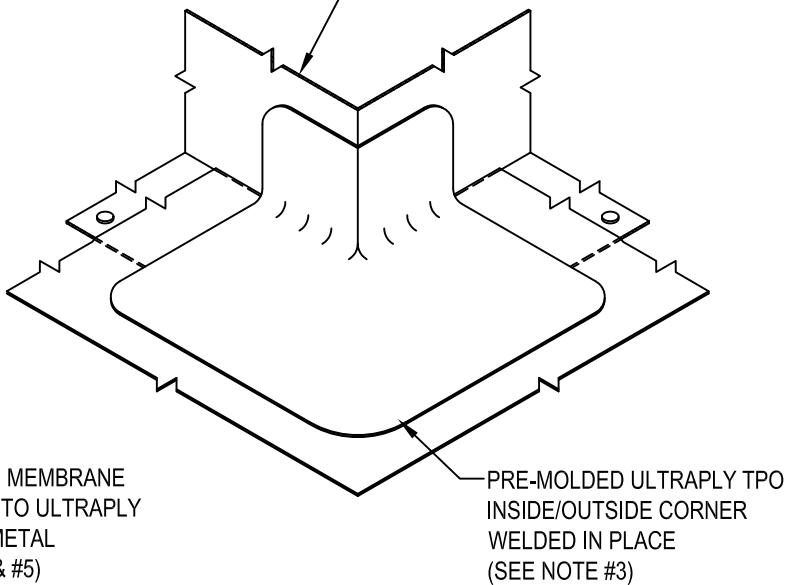
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
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. SEE UT-C-7a FOR DETAILED INSTALLATION INSTRUCTIONS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	OUTSIDE CORNER WITH ULTRAPLY TPO COATED METAL	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-C-7
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



STEP #3
USE APPROPRIATE TERMINATION DETAIL



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

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

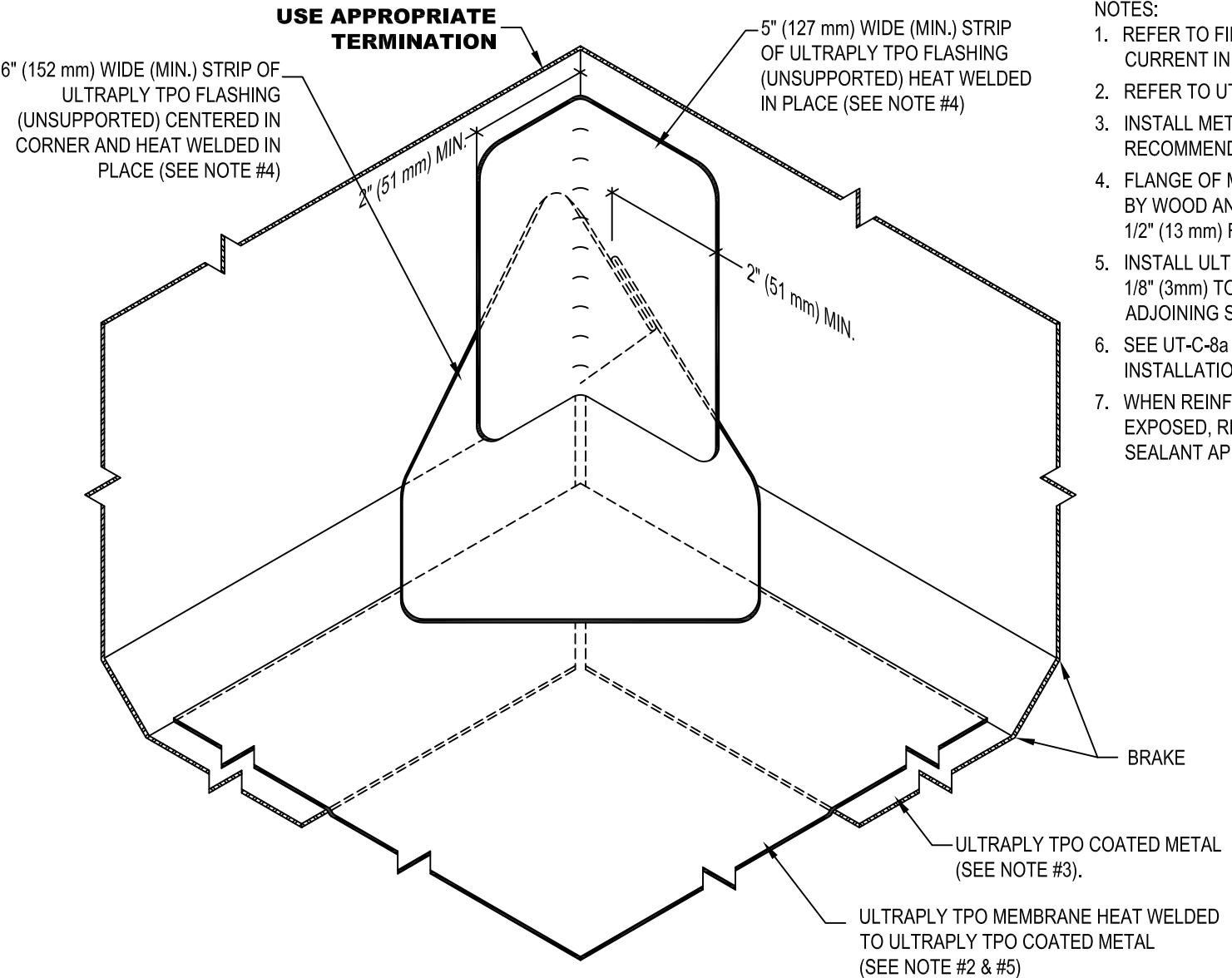
OUTSIDE CORNER WITH ULTRAPLY TPO COATED METAL INSTALLATION STEPS

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-C-7a



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
5. INSTALL ULTRAPLY TPO COATED METAL WITH 1/8" (3mm) TO 1/4" (6 mm) MAX. BETWEEN ADJOINING SECTIONS.
6. SEE UT-C-8a & UT-C-8b FOR DETAILED INSTALLATION INSTRUCTIONS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

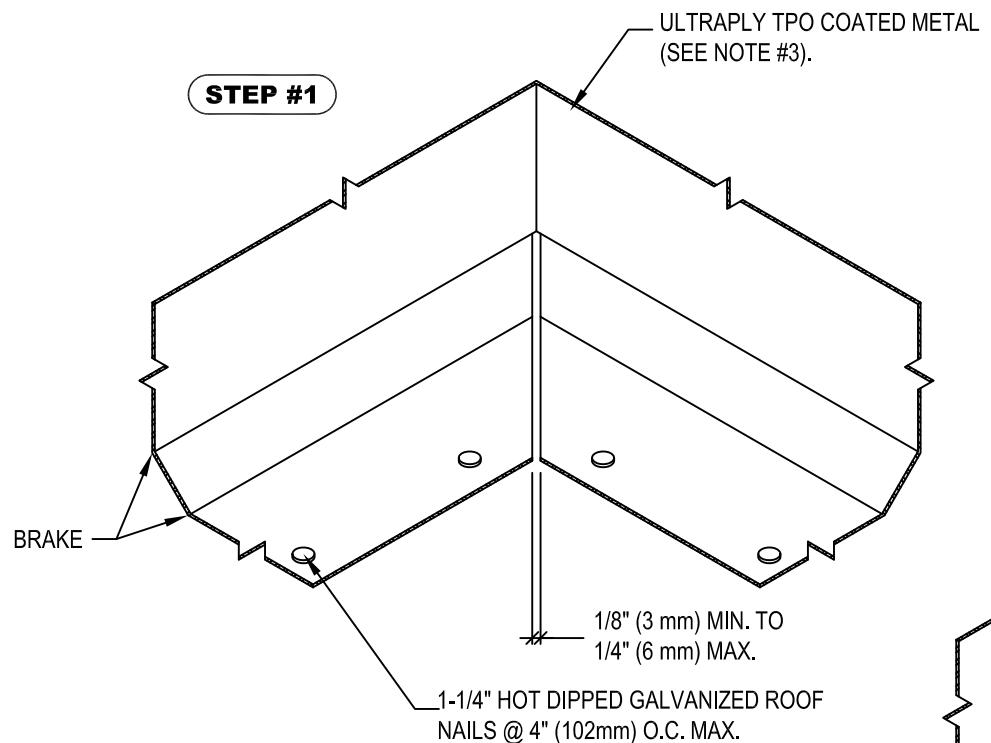
**INSIDE CORNER WITH ULTRAPLY TPO
COATED METAL (WITH BRAKE)**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

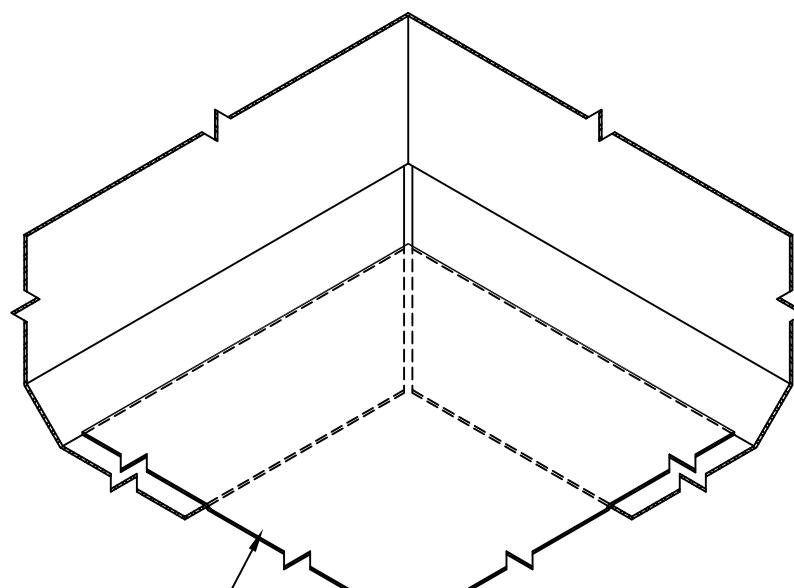
ISSUE / REVISION DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-C-8

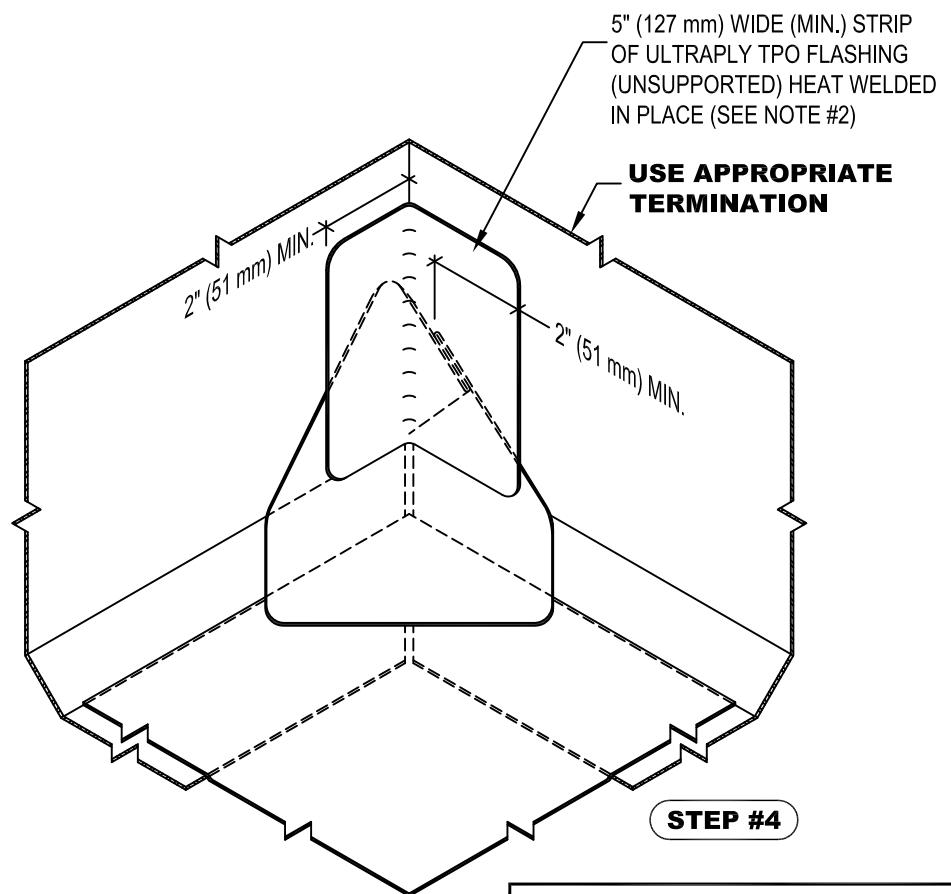
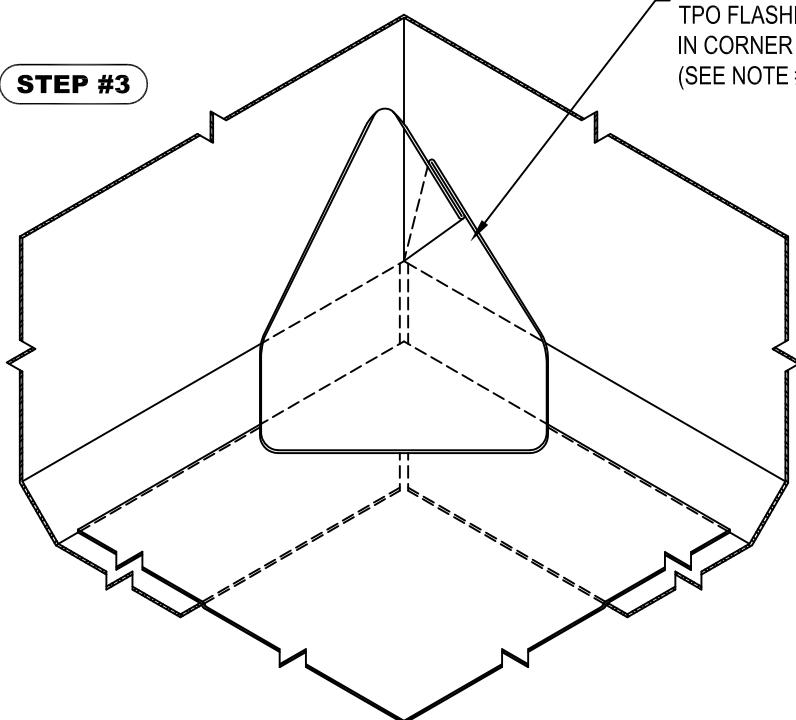


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

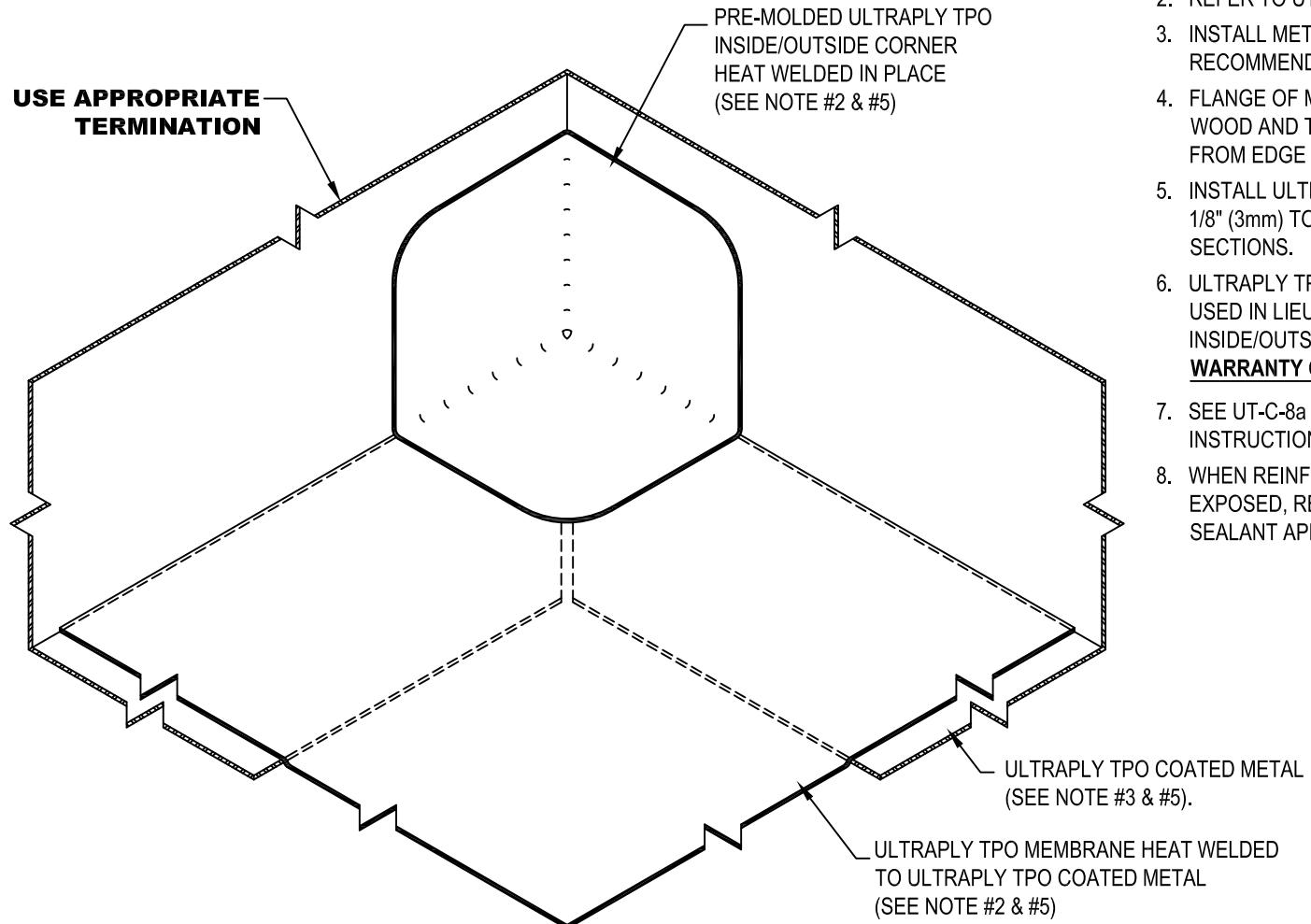


MAXIMUM WARRANTY: **20 YEARS**



NOTES:

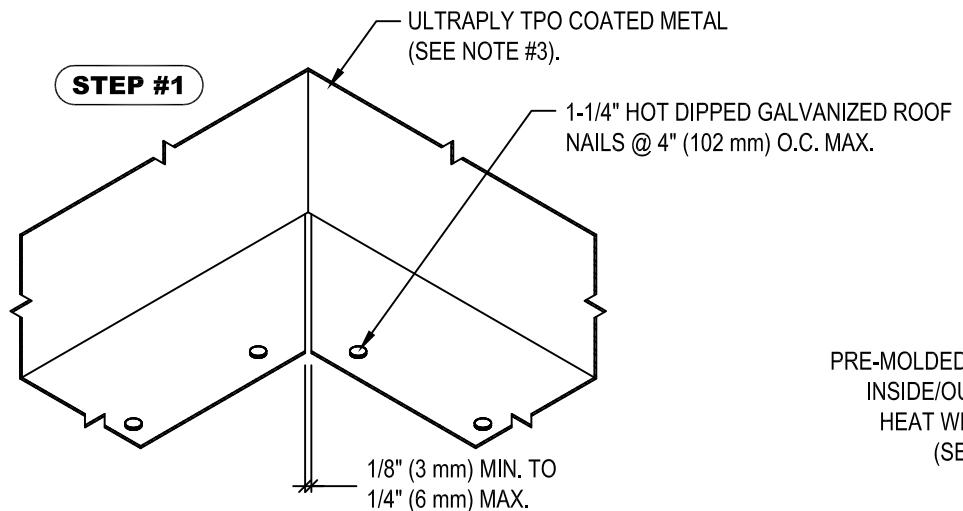
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.



NOTES:

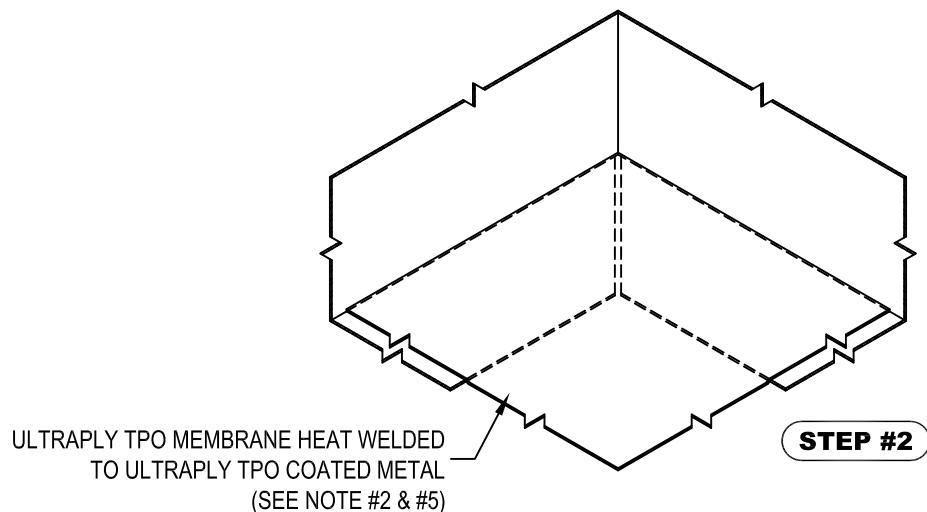
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
5. INSTALL ULTRAPLY TPO COATED METAL WITH 1/8" (3mm) TO 1/4" (6 mm) MAX. BETWEEN ADJOINING SECTIONS.
6. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER **FOR A MAXIMUM WARRANTY OF 15 YEARS.**
7. SEE UT-C-8a & UT-C-8b FOR DETAILED INSTALLATION INSTRUCTIONS.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	INSIDE CORNER WITH ULTRAPLY TPO COATED METAL	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-C-9
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

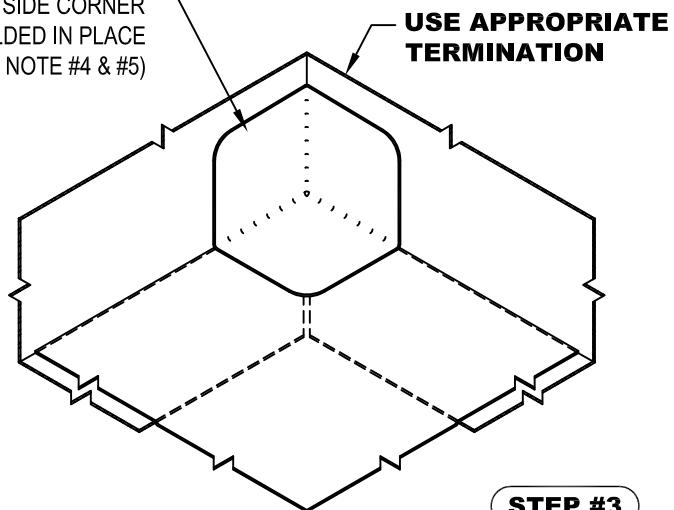


NOTES:

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



PRE-MOLDED ULTRAPLY TPO
INSIDE/OUTSIDE CORNER
HEAT WELDED IN PLACE
(SEE NOTE #4 & #5)



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com
--

**INSIDE CORNER WITH ULTRAPLY TPO
COATED METAL INSTALLATION STEPS**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

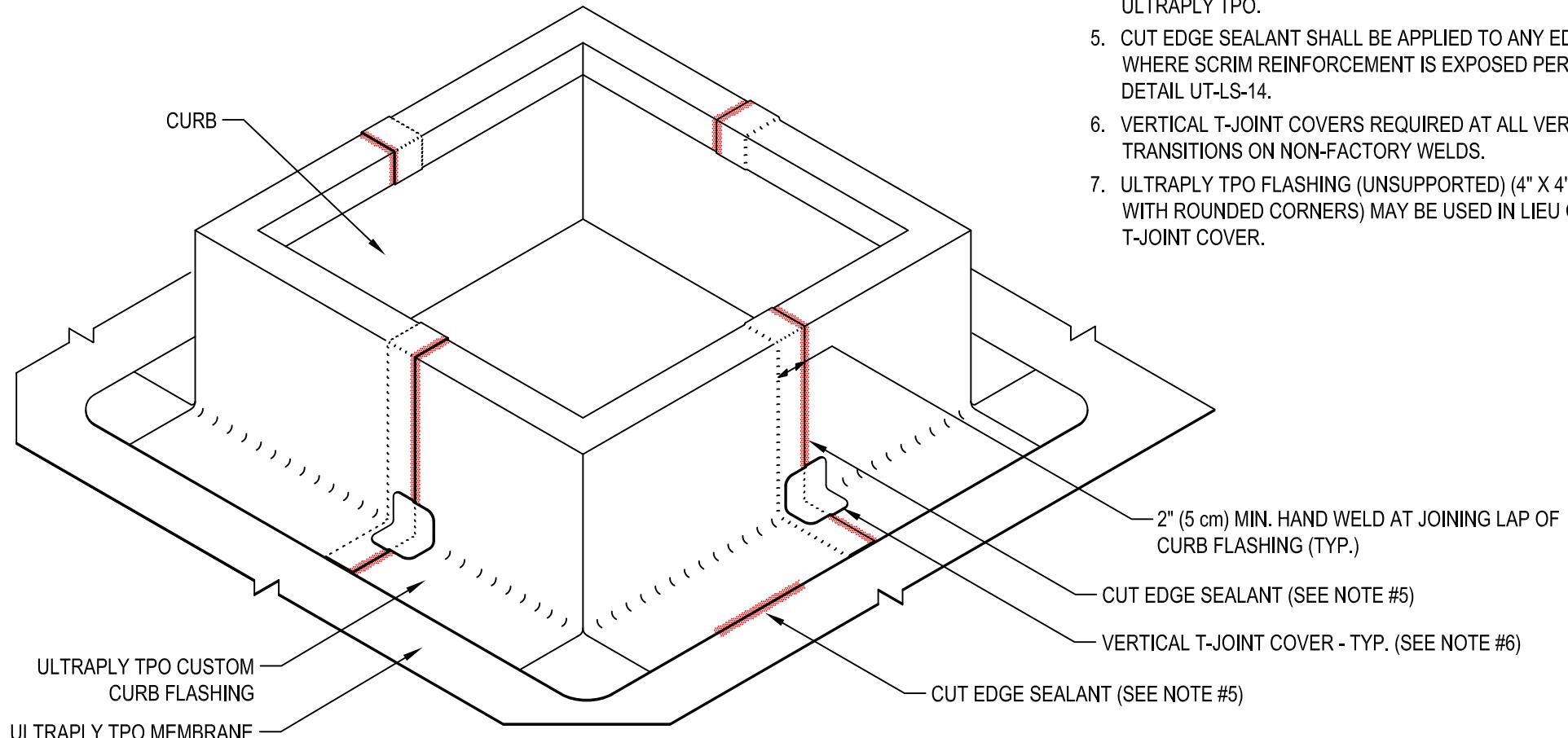
ISSUE / REVISION DATE:
7/01/2014
NOT TO SCALE

DETAIL NO.
UT-C-9a

ULTRAPLY TPO REINFORCED CURB CORNER SIZES	SIZE OF FINISHED CURB
7" (18 cm)	12" x 12" (30 x 30 cm)
13" (33 cm)	24" x 24" (61 x 61 cm)
19" (49 cm)	36" x 36" (91 x 91 cm)
25" (64 cm)	48" x 48" (122 x 122 cm)
31" (79 cm)	60" x 60" (153 x 153 cm)
37" (94 cm)	72" x 72" (183 x 183 cm)

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. ULTRAPLY TPO CURB CORNERS COME IN VARIOUS SIZES TO FIT DIFFERENT CURB SIZES. PLEASE REFER TO THE SIZE CHART TO DETERMINE WHICH SIZE CURB FLASHING TO UTILIZE.
3. REFER TO DETAIL UT-LS-2 FOR WELD
4. BONDING ADHESIVE IS REQUIRED BETWEEN CURB AND ULTRAPLY TPO.
5. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENT IS EXPOSED PER DETAIL UT-LS-14.
6. VERTICAL T-JOINT COVERS REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS.
7. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4" X 4" MIN. WITH ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT COVER.



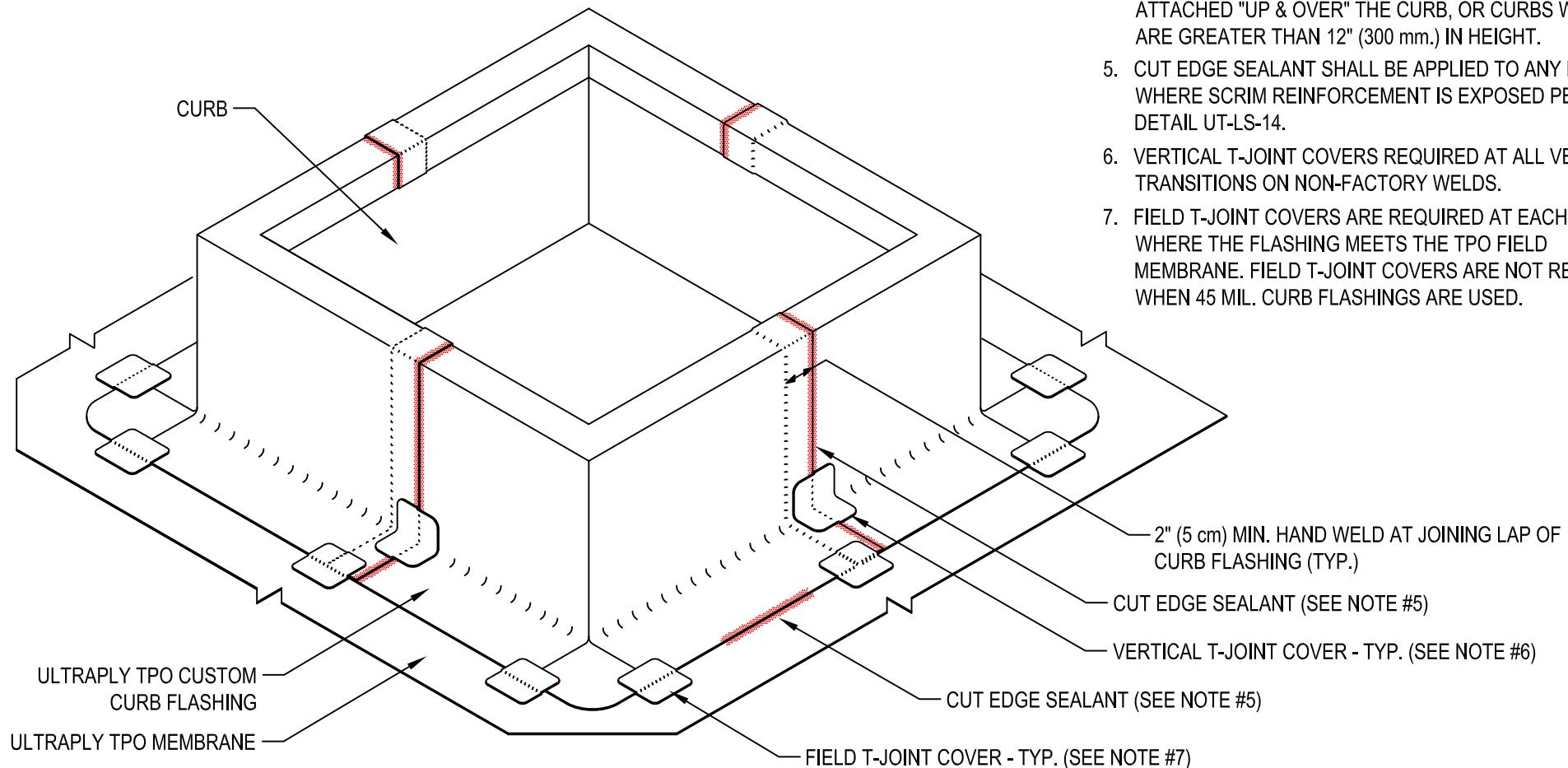
MAXIMUM WARRANTY: **20 YEARS**

CUSTOM CURB TYPES

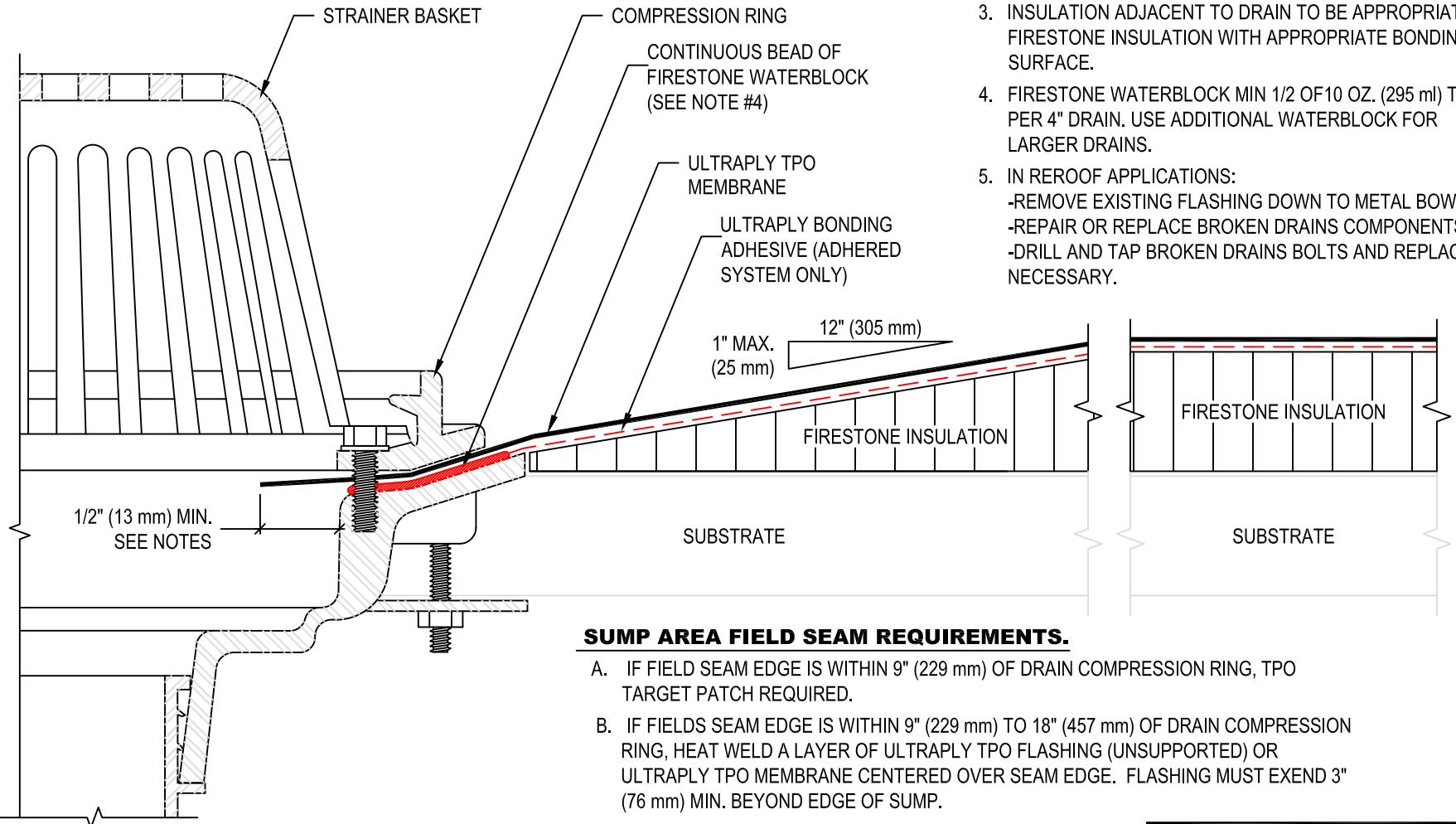
<input type="checkbox"/> CLOSED - BEST FOR NEW CONSTRUCTION W/ CONSISTENT SIZED CURB	<input type="checkbox"/> 2 PIECES - BEST FOR CONSISTENT SIZED CURBS W/ EXISTING EQUIPMENT
<input type="checkbox"/> 1 PIECE - BEST FOR CONSISTENT SIZED CURBS W/ EXISTING EQUIPMENT	<input type="checkbox"/> 4 PIECES - BEST FOR VARIABLE SIZED CURBS FOR MAXIMUM ADJUSTMENT

NOTES:

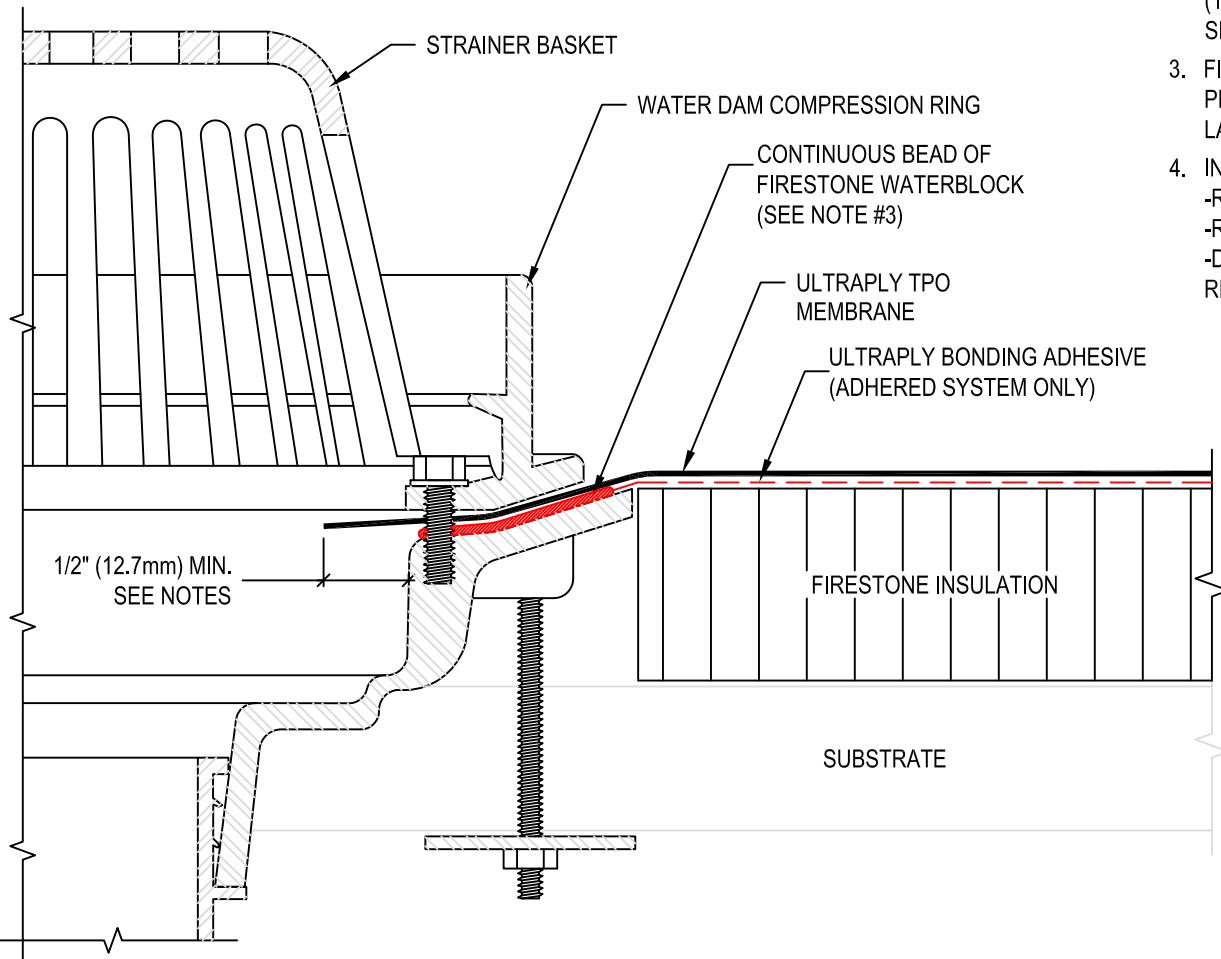
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. ULTRAPLY TPO CUSTOM CURB FLASHING COMES IN CUSTOM SIZES TO FIT SPECIFIC CURB SIZES.
3. REFER TO DETAIL UT-LS-2 FOR WELD.
4. BONDING ADHESIVE IS REQUIRED BETWEEN CURB AND ULTRAPLY TPO CUSTOM CURB FLASHING IN FULLY ADHERED SYSTEMS WHEN THE MEMBRANE CAN NOT BE ATTACHED "UP & OVER" THE CURB, OR CURBS WHICH ARE GREATER THAN 12" (300 mm.) IN HEIGHT.
5. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENT IS EXPOSED PER DETAIL UT-LS-14.
6. VERTICAL T-JOINT COVERS REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS.
7. FIELD T-JOINT COVERS ARE REQUIRED AT EACH T-JOINT WHERE THE FLASHING MEETS THE TPO FIELD MEMBRANE. FIELD T-JOINT COVERS ARE NOT REQUIRED WHEN 45 MIL. CURB FLASHINGS ARE USED.



MAXIMUM WARRANTY: **20 YEARS**



MAXIMUM WARRANTY: **20 YEARS**



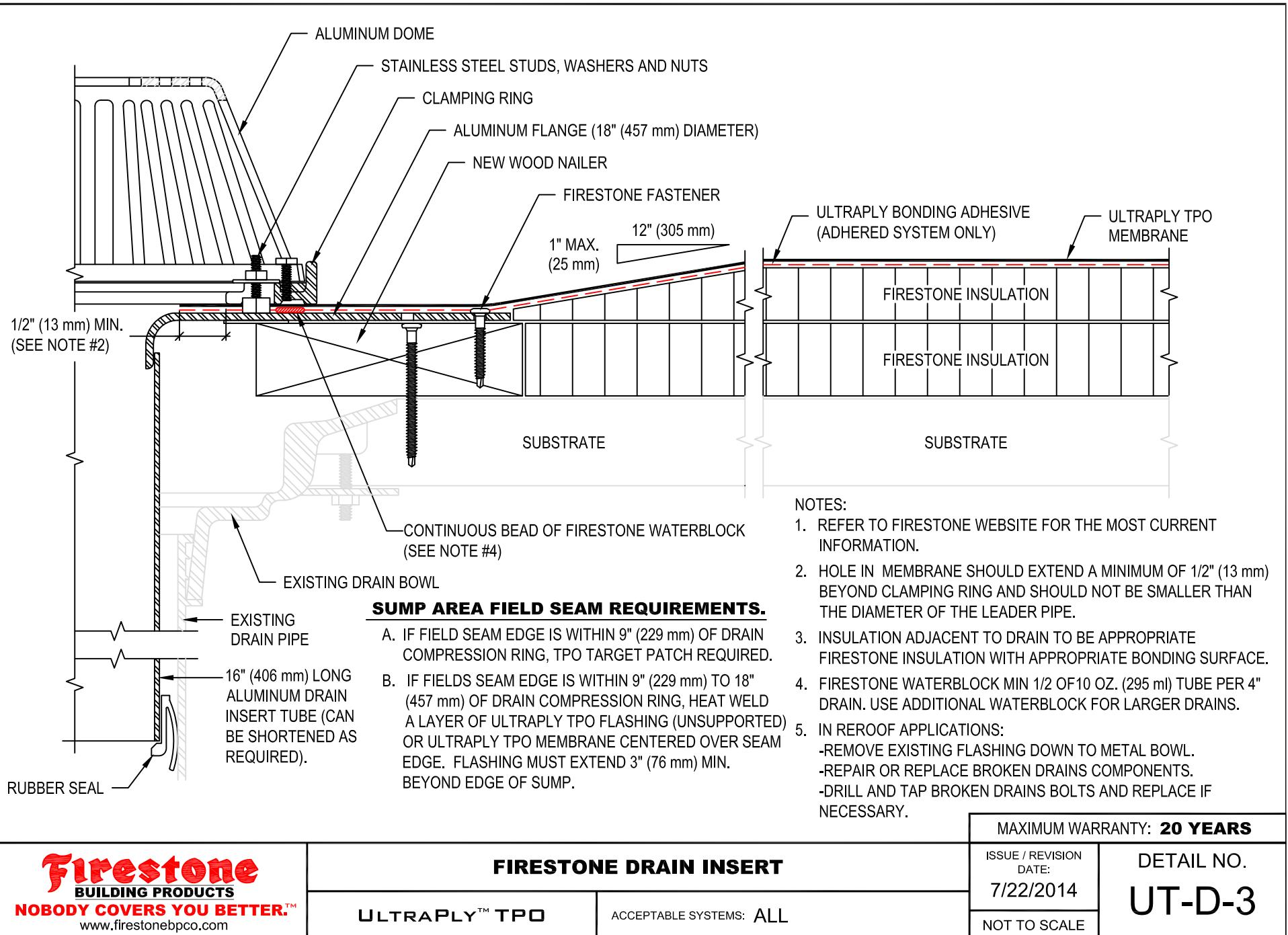
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" (13 mm) BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
3. FIRESTONE WATERBLOCK MIN 1/2 OF 10 OZ. (295 ml) TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
4. IN REROOF APPLICATIONS:
 - REMOVE EXISTING FLASHING DOWN TO METAL BOWL.
 - REPAIR OR REPLACE BROKEN DRAINS COMPONENTS.
 - DRILL AND TAP BROKEN DRAINS BOLTS AND REPLACE IF NECESSARY.

FIELD SEAM REQUIREMENTS.

- A. IF FIELD SEAM EDGE IS WITHIN 9" (229 mm) OF DRAIN COMPRESSION RING, TPO TARGET PATCH REQUIRED.
- B. IF FIELDS SEAM EDGE IS WITHIN 9" (229 mm) TO 18" (457 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 mm) MIN. BEYOND EDGE OF SUMP.

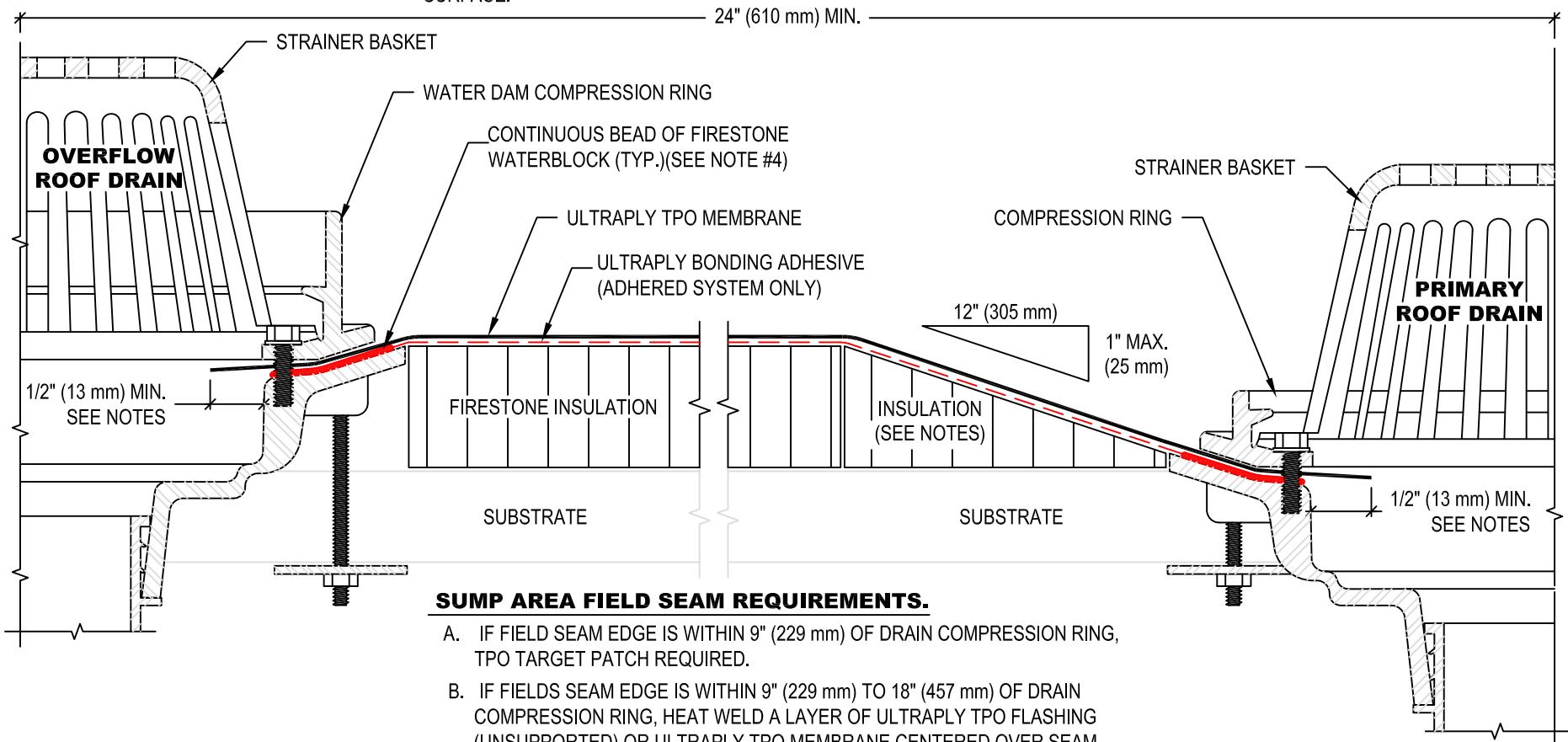
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

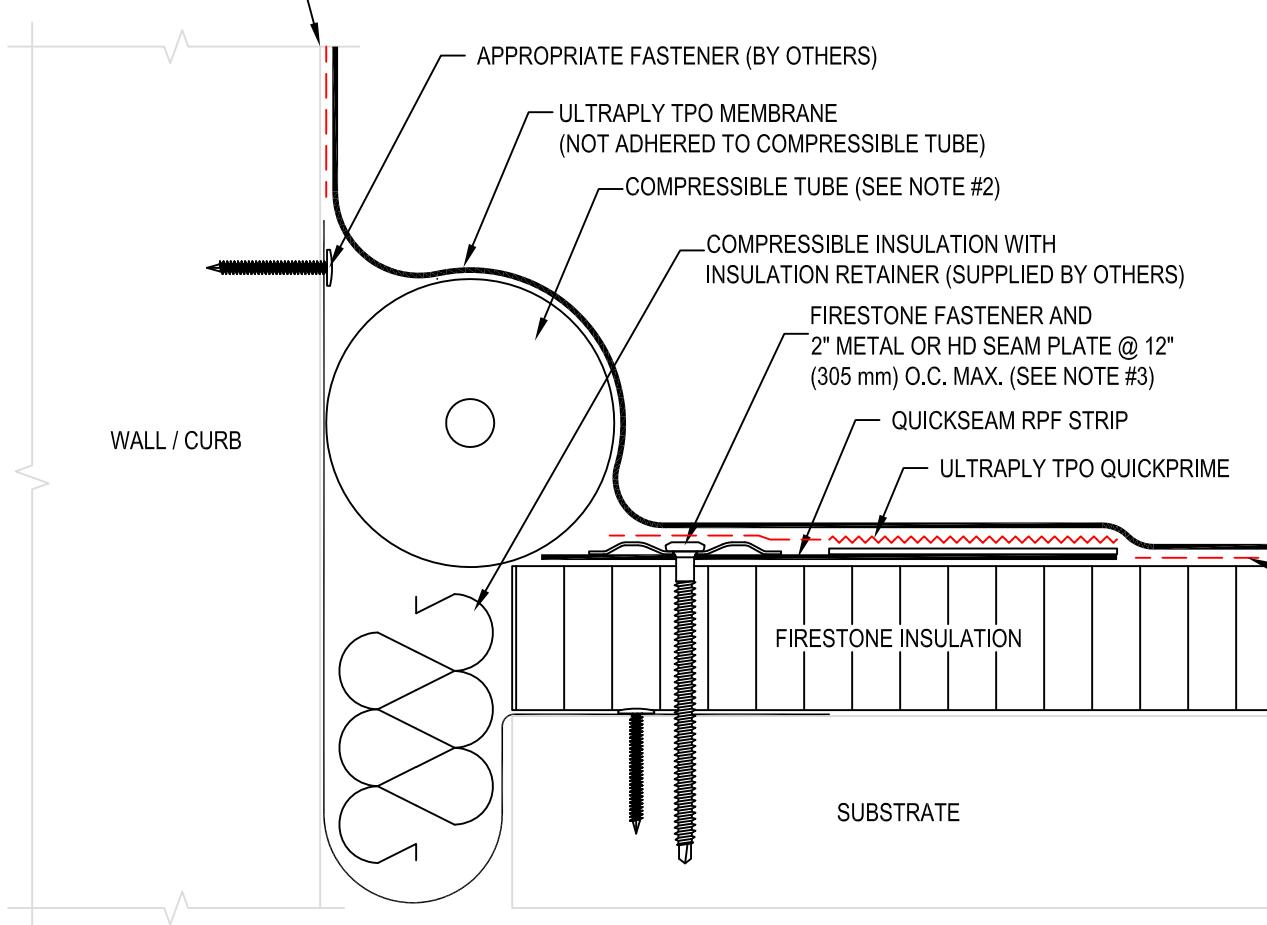
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" (13 mm) BEYOND CLAMPING RING AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
3. INSULATION ADJACENT TO DRAIN TO BE APPROPRIATE FIRESTONE INSULATION WITH APPROPRIATE BONDING SURFACE.

4. FIRESTONE WATERBLOCK MIN 1/2 OF 10 OZ. (295 ml) TUBE PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.
5. IN REROOF APPLICATIONS:
 - REMOVE EXISTING FLASHING DOWN TO METAL BOWL.
 - REPAIR OR REPLACE BROKEN DRAINS COMPONENTS.
 - DRILL AND TAP BROKEN DRAINS BOLTS AND REPLACE IF NECESSARY.



MAXIMUM WARRANTY: **20 YEARS**

USE APPROPRIATE TERMINATION



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNATED MOVEMENT (WHICH EVER IS GREATER)
3. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO UT-BT DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
5. MAXIMUM 6" (152 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS.
6. REFER TO UT-LS-15 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

THIS DETAIL IS NOT ACCEPTABLE FOR PAVER BALLAST SYSTEMS. CONTACT FIRESTONE ROOFING SOLUTIONS

MAXIMUM WARRANTY: 20 YEARS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

**EXPANSION JOINT (FIELD FABRICATED) WITH
QUICKSEAM RPF - ROOF TO WALL**

ULTRAPLY™ TPO

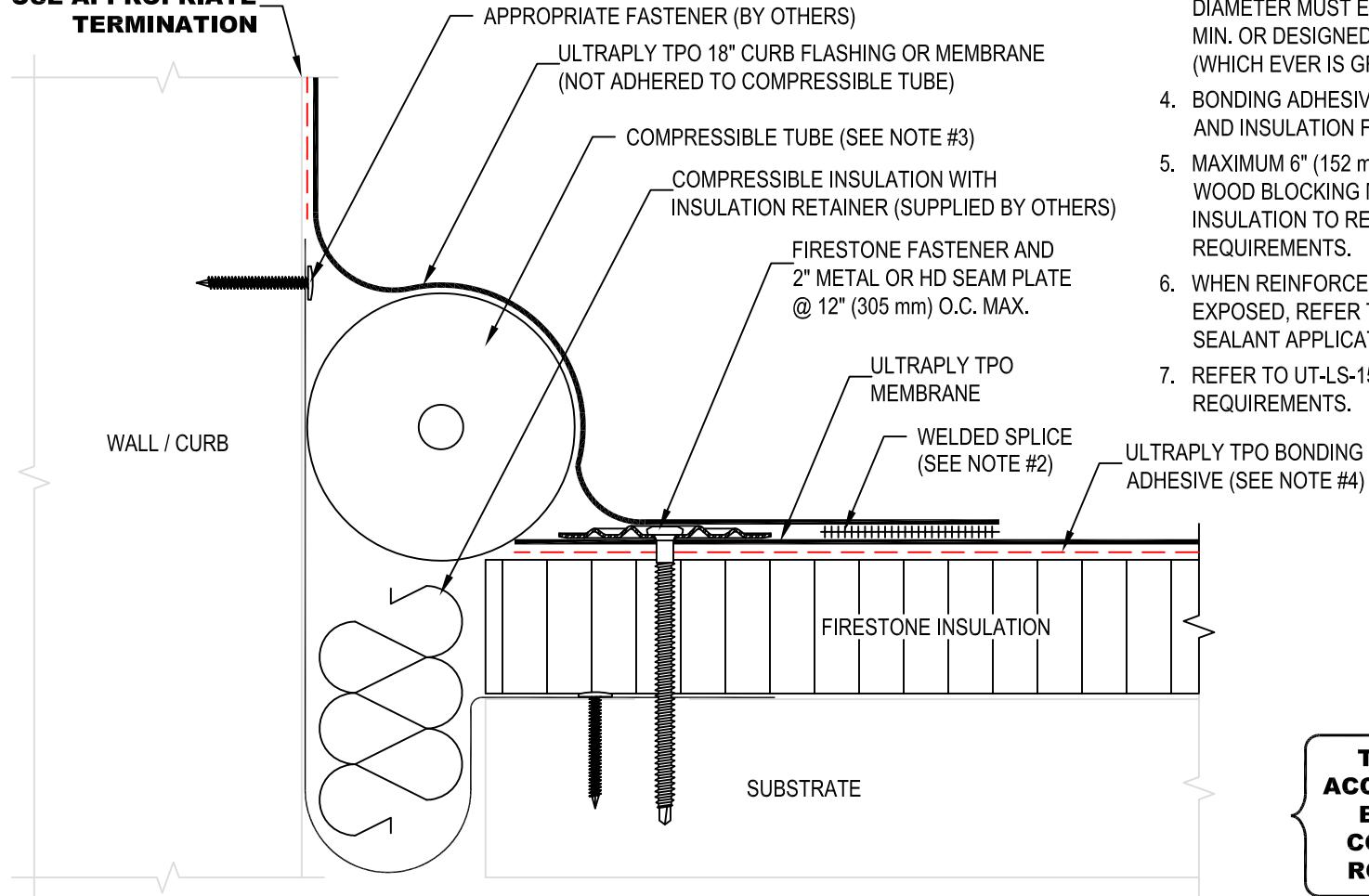
ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

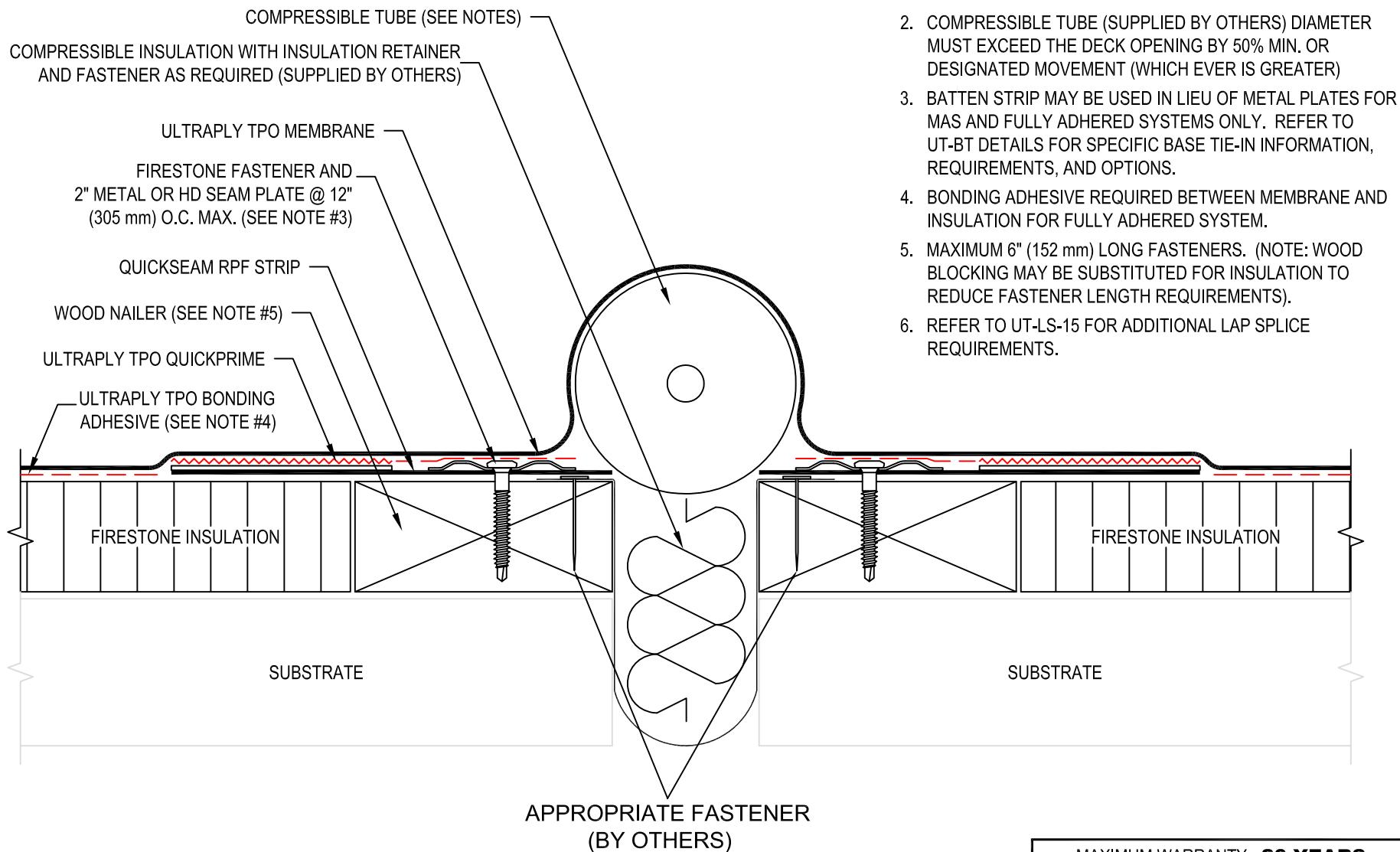
DETAIL NO.
UT-E-1

USE APPROPRIATE TERMINATION



NOTES:

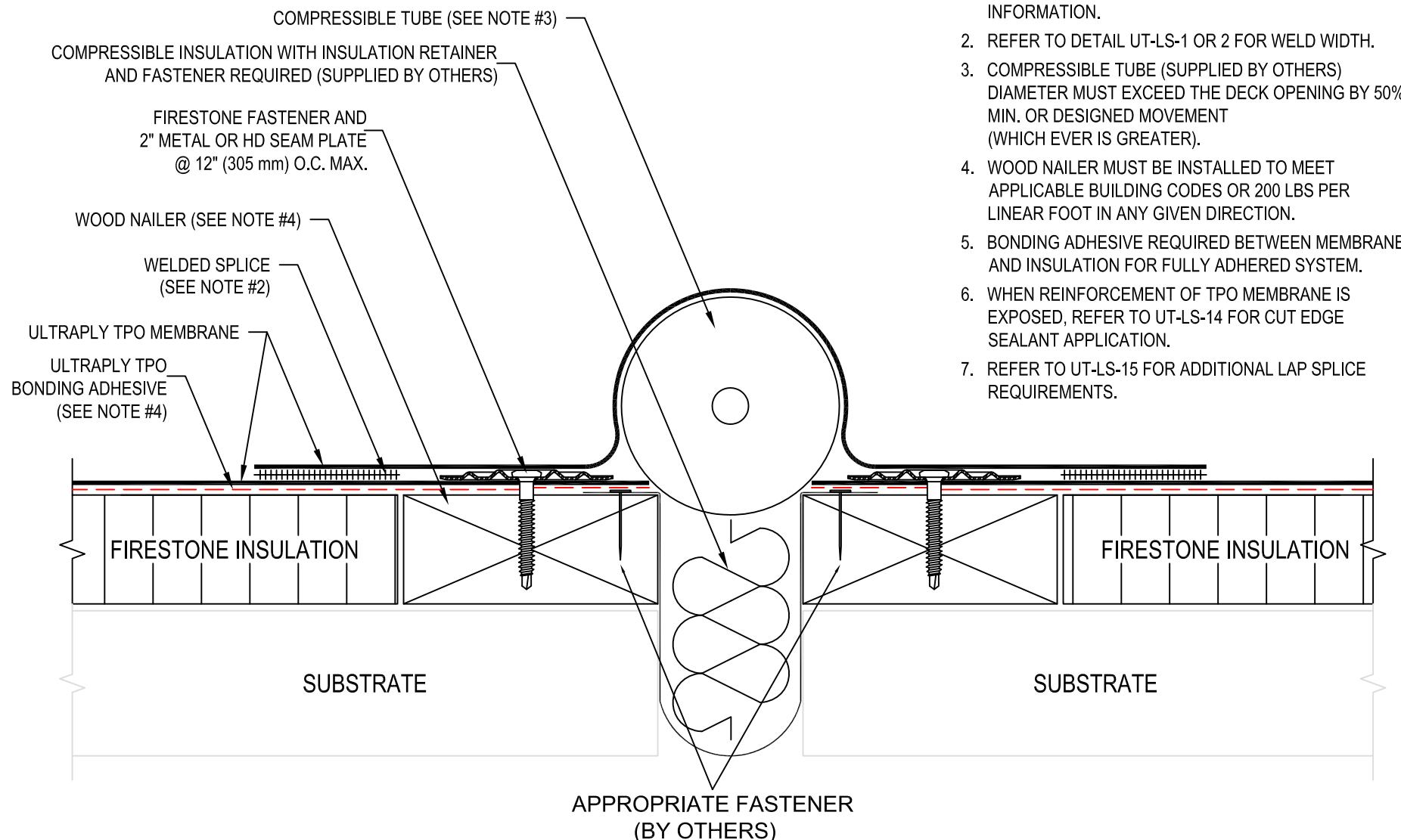
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICH EVER IS GREATER).
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
5. MAXIMUM 6" (152 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
7. REFER TO UT-LS-15 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.



Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	EXPANSION JOINT (FIELD FABRICATED) WITH QUICKSEAM RPF AND WOOD NAILER - ROOF TO ROOF	MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-E-3

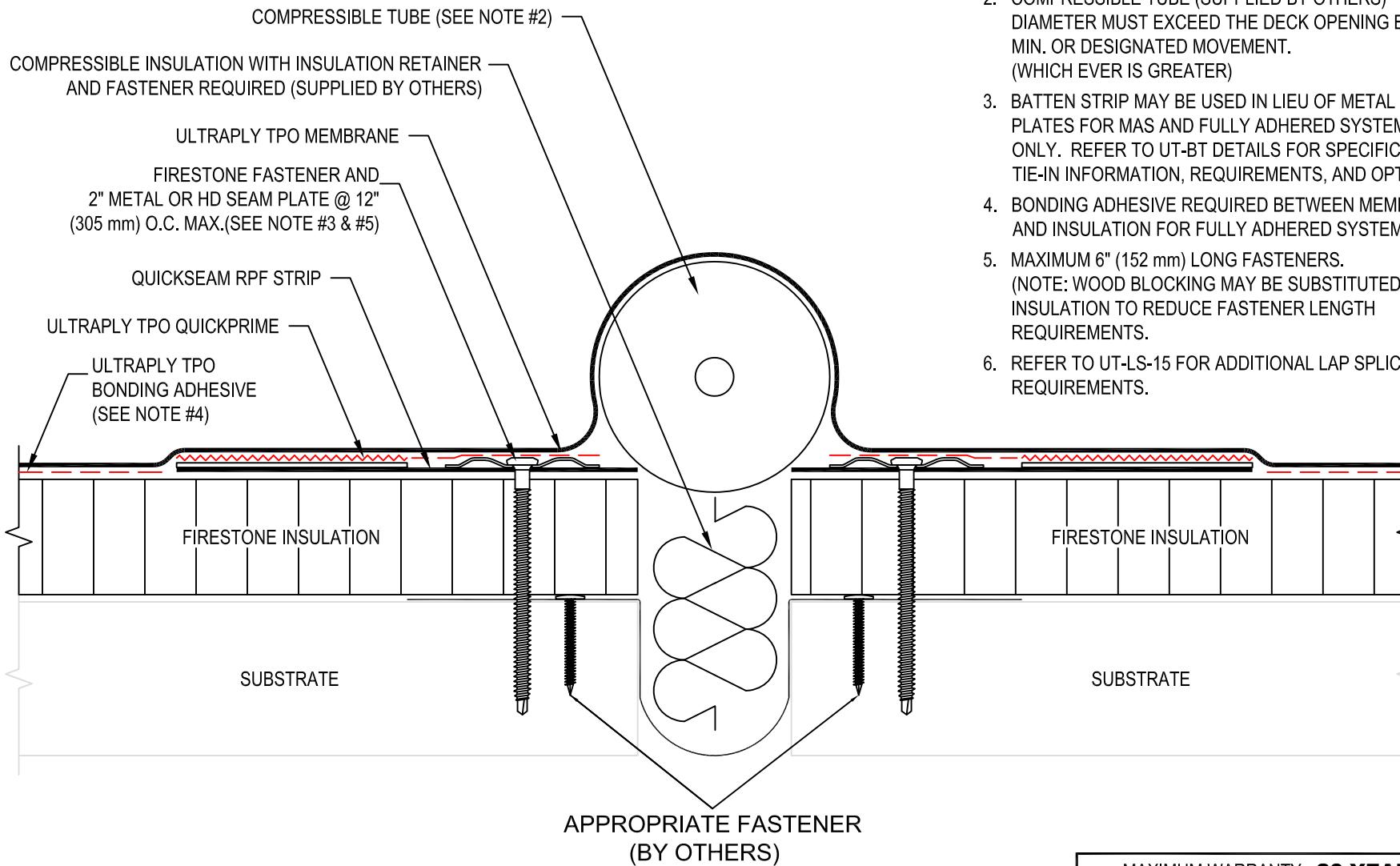


Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	EXPANSION JOINT (FIELD FABRICATED) WITH WELDED SPLICE AND WOOD NAILER - ROOF TO ROOF	MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ISSUE / REVISION DATE: 7/22/2014

ACCEPTABLE SYSTEMS: ALL

NOT TO SCALE

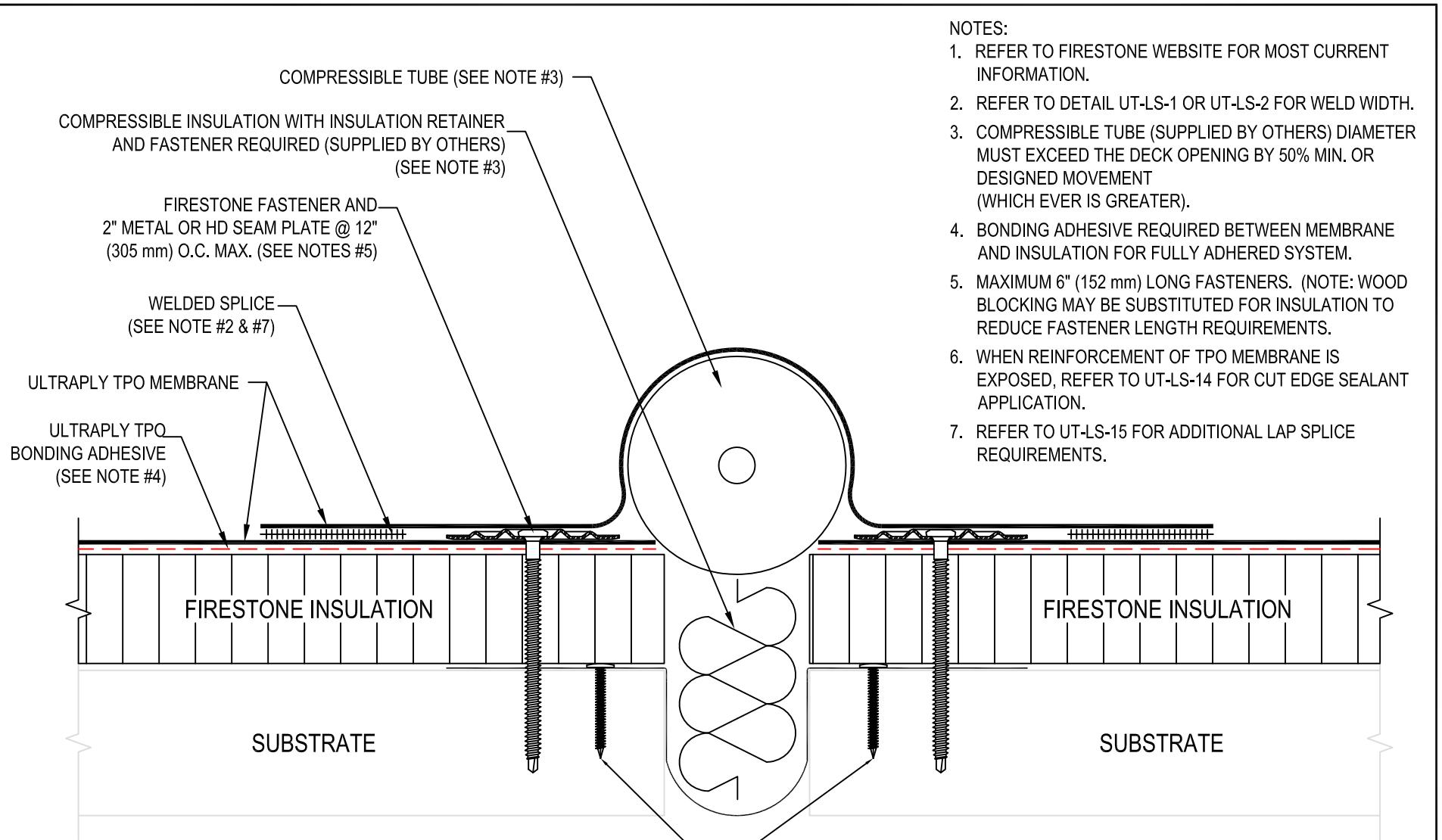
DETAIL NO.
UT-E-4

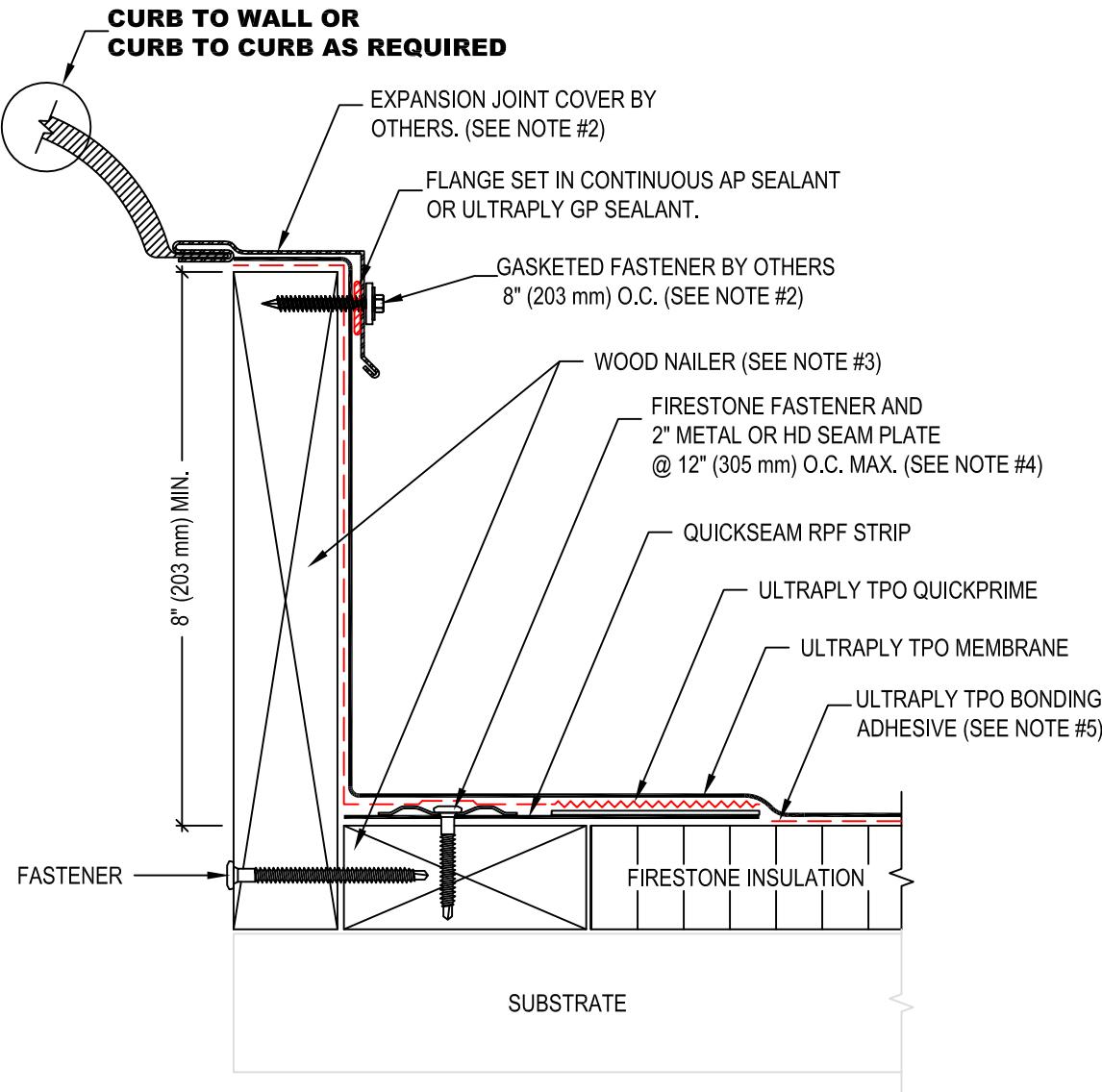


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNATED MOVEMENT. (WHICH EVER IS GREATER)
3. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO UT-BT DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
5. MAXIMUM 6" (152 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS.
6. REFER TO UT-LS-15 FOR ADDITIONAL LAP SPLICING REQUIREMENTS.

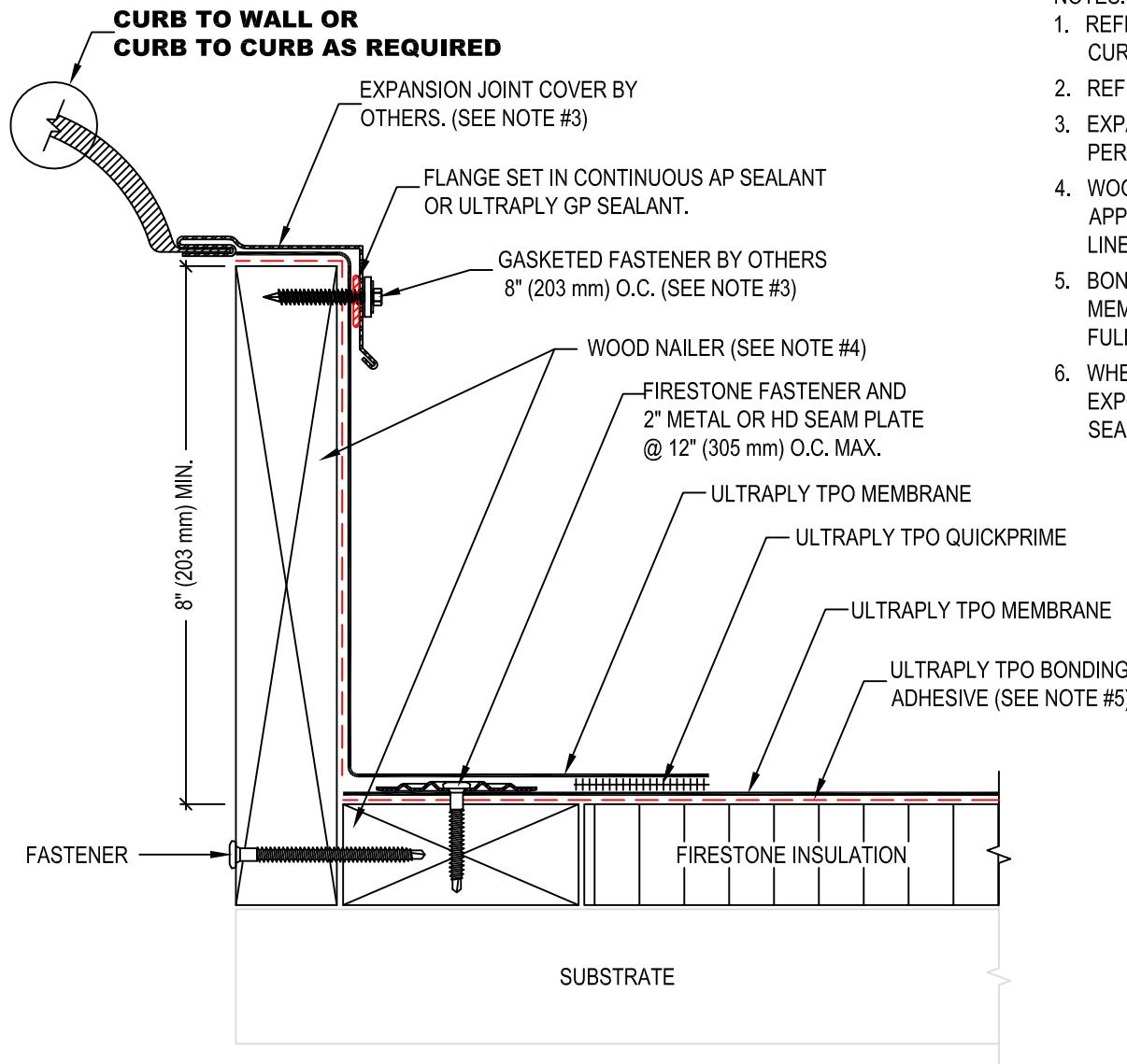
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	EXPANSION JOINT (FIELD FABRICATED) WITH QUICKSEAM RPF - ROOF TO ROOF	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-E-5
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE





NOTES:

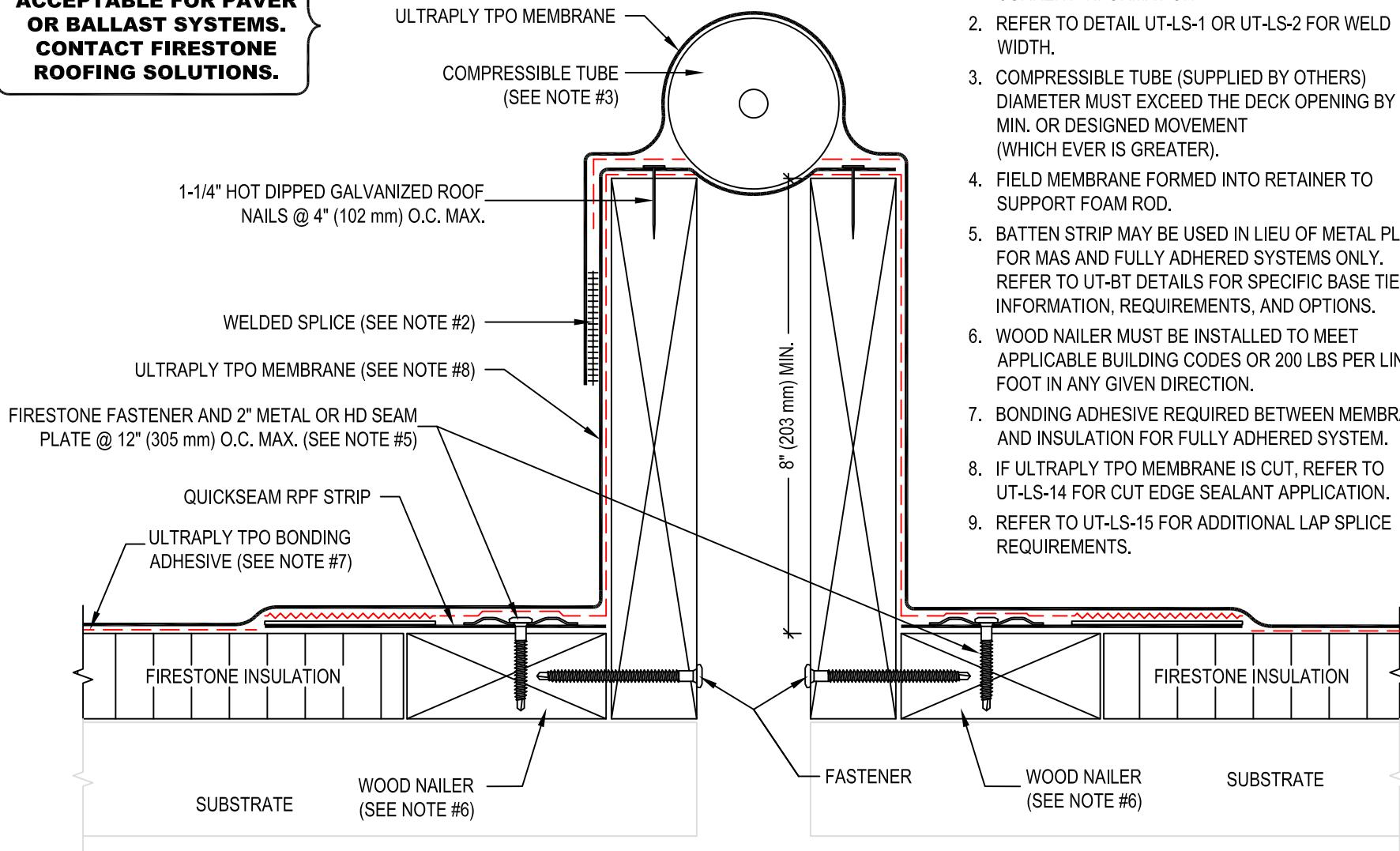
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. EXPANSION JOINT COVER INSTALLED AND SECURED PER MANUFACTURER'S RECOMMENDATIONS.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
4. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO UT-BT DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. EXPANSION JOINT COVER INSTALLED AND SECURED PER MANUFACTURER'S RECOMMENDATIONS.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

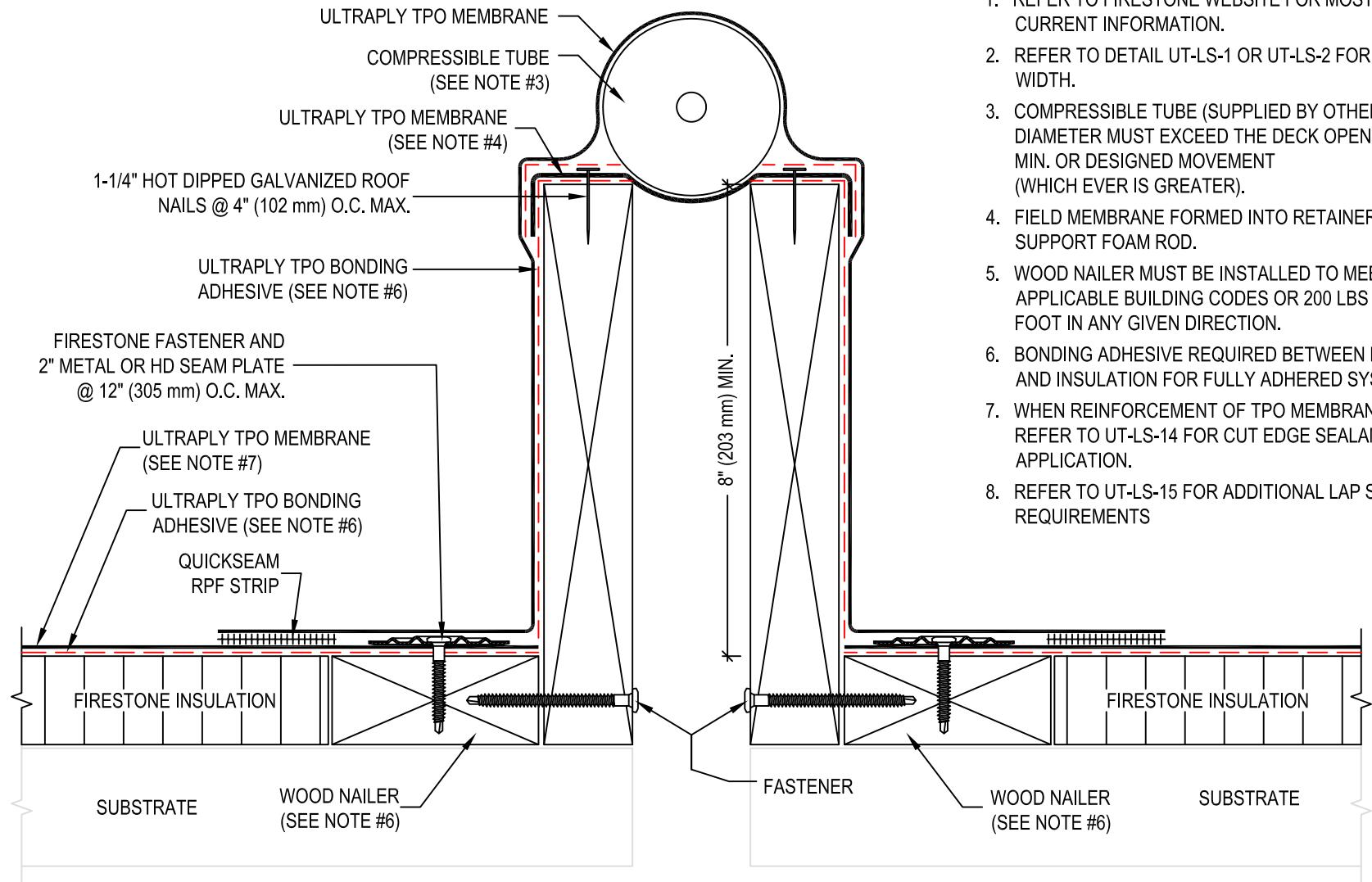
**THIS DETAIL IS NOT
ACCEPTABLE FOR PAVER
OR BALLAST SYSTEMS.
CONTACT FIRESTONE
ROOFING SOLUTIONS.**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICH EVER IS GREATER).
4. FIELD MEMBRANE FORMED INTO RETAINER TO SUPPORT FOAM ROD.
5. BATTEN STRIP MAY BE USED IN LIEU OF METAL PLATES FOR MAS AND FULLY ADHERED SYSTEMS ONLY. REFER TO UT-BT DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
8. IF ULTRAPLY TPO MEMBRANE IS CUT, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
9. REFER TO UT-LS-15 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

MAXIMUM WARRANTY: **20 YEARS**



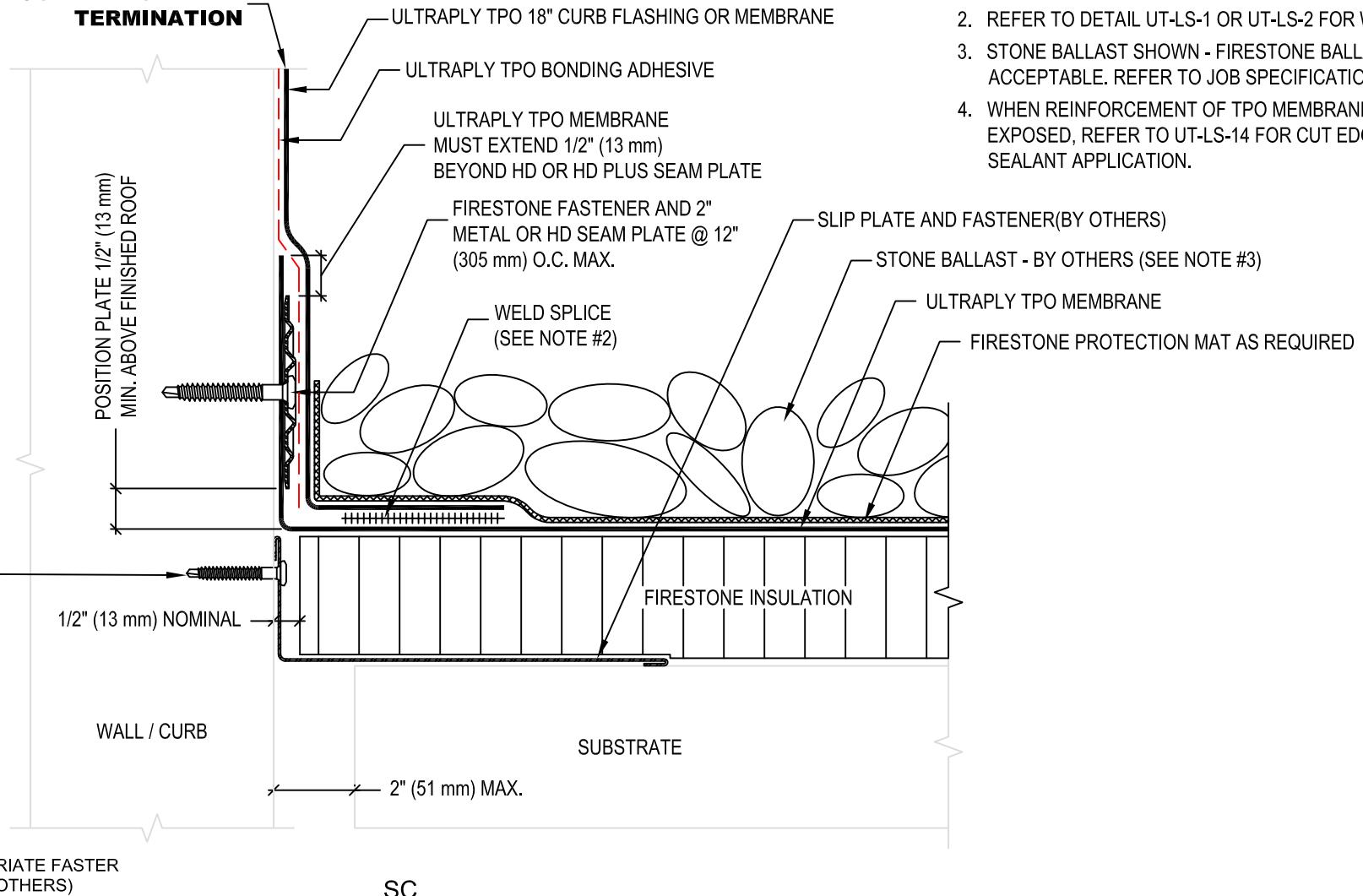
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICH EVER IS GREATER).
4. FIELD MEMBRANE FORMED INTO RETAINER TO SUPPORT FOAM ROD.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEM.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS CUT, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
8. REFER TO UT-LS-15 FOR ADDITIONAL LAP SPLICE REQUIREMENTS

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	EXPANSION JOINT (FIELD FABRICATED) WITH WELDED SPLICE - CURB TO CURB	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-E-10
		ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

**USE APPROPRIATE
TERMINATION**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. STONE BALLAST SHOWN - FIRESTONE BALLAST PAVERS ACCEPTABLE. REFER TO JOB SPECIFICATIONS.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

FOR NOMINAL OPENINGS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

EXPANSION JOINT WITH SLIP PLATE - ROOF TO WALL

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: **BALLASTED**

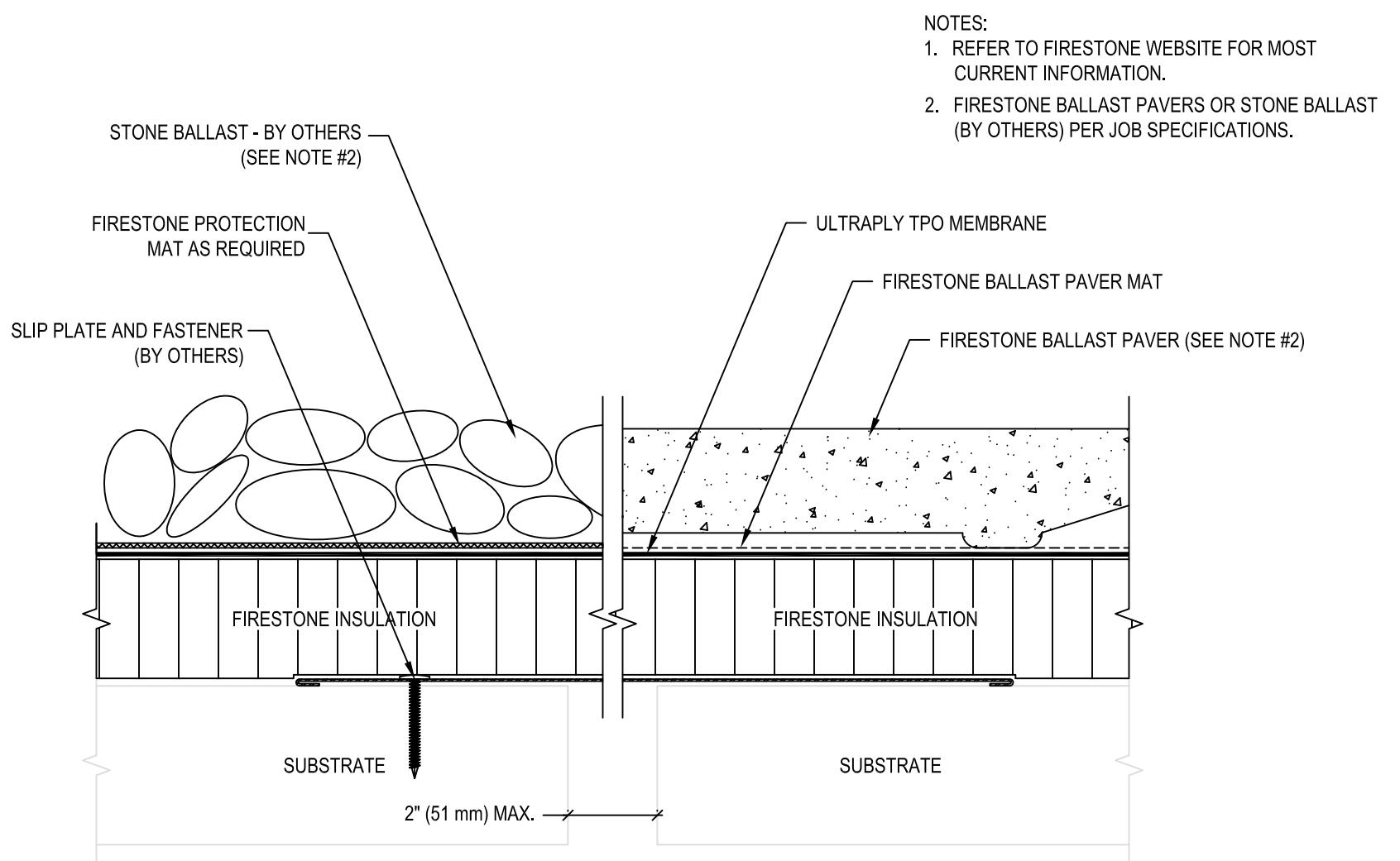
MAXIMUM WARRANTY: 20 YEARS

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

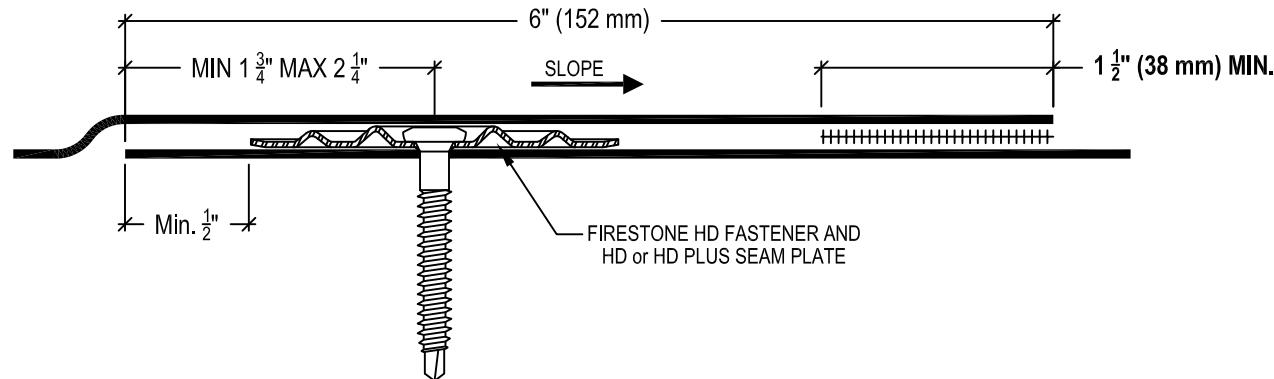
DETAIL NO.

UT-E-11

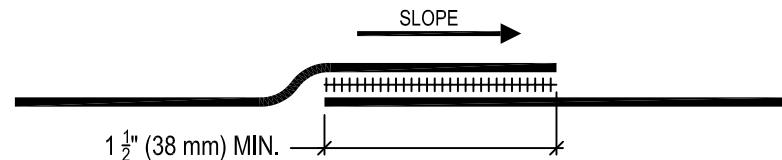


NOTE:
REFER TO FIRESTONE WEBSITE FOR MOST
CURRENT INFORMATION.

FOR MECHANICALLY ATTACHED ULTRAPLY TPO ROOFING SYSTEMS



FOR FULLY ADHERED, BALLASTED, INVISIWELD, AND SA ULTRAPLY TPO ROOFING SYSTEMS

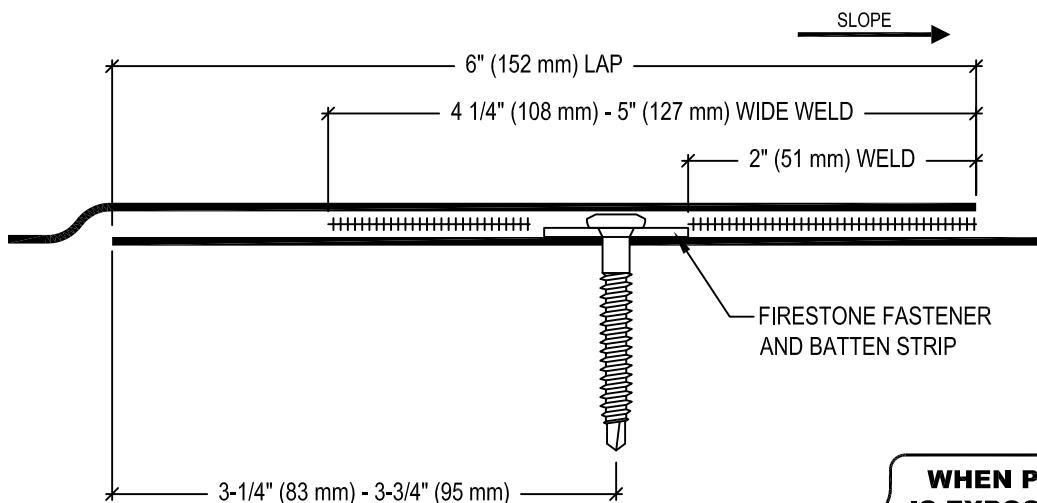
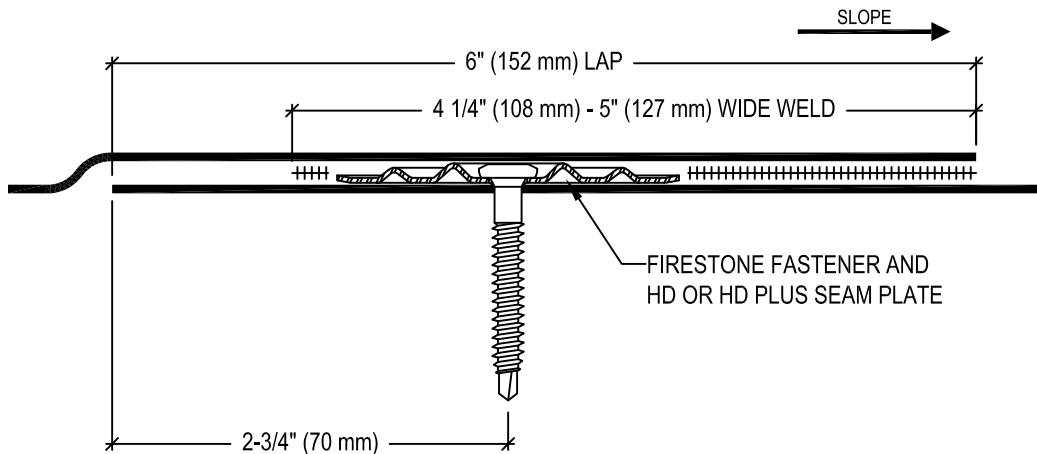


**WHEN POLYESTER REINFORCEMENT OF TPO
IS EXPOSED, APPLY CUT EDGE TREATMENT TO
ENTIRE EXPOSED EDGE. REFER TO UT-LS-14.**

MAXIMUM WARRANTY: **20 YEARS**

NOTES:

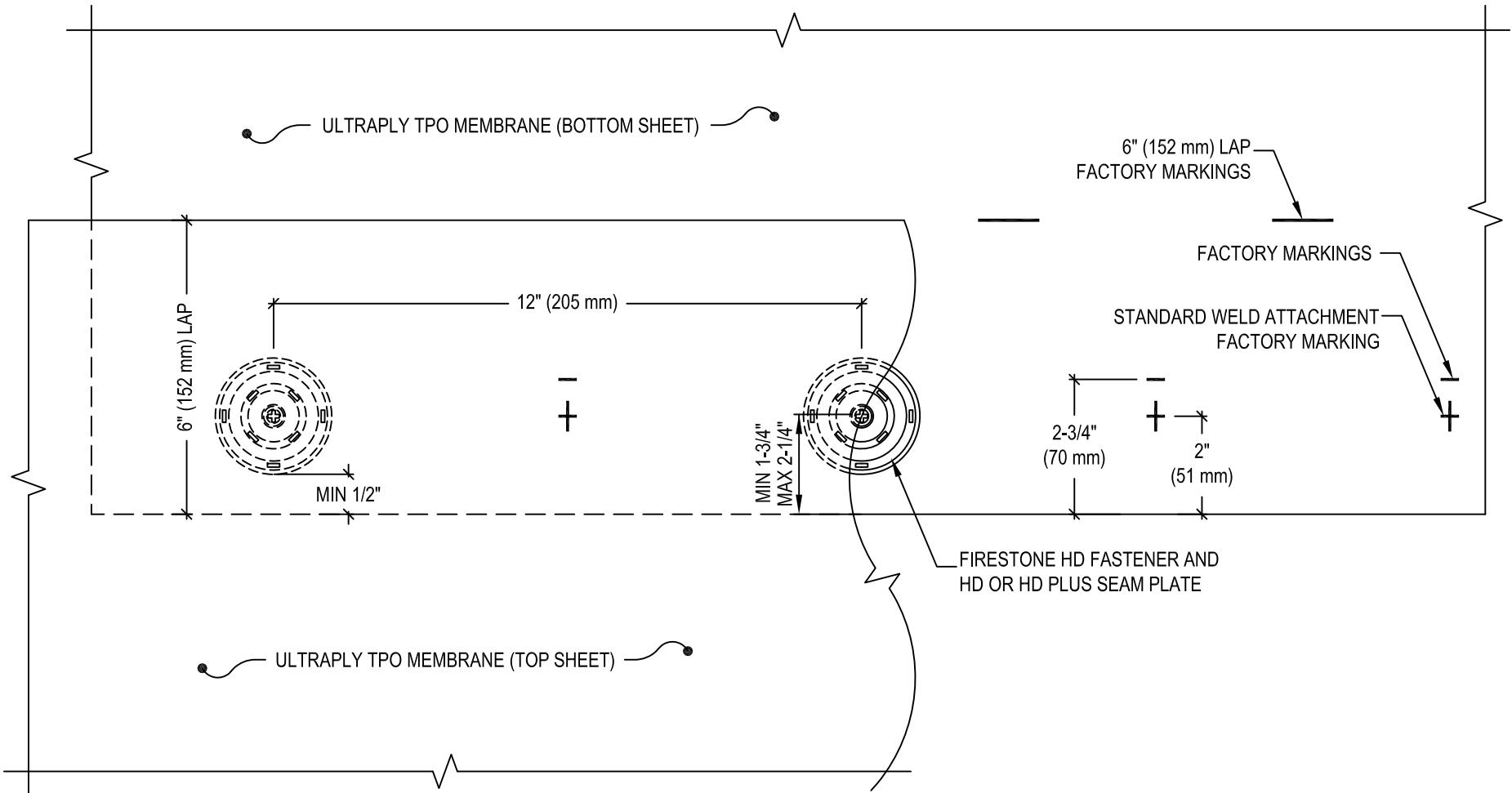
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.



WHEN POLYESTER REINFORCEMENT OF TPO IS EXPOSED, APPLY CUT EDGE TREATMENT TO ENTIRE EXPOSED EDGE. REFER TO UT-LS-14.

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	LAP SPLICER FASTENER LAYOUT FOR STANDARD WELD SEAM	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: MAS

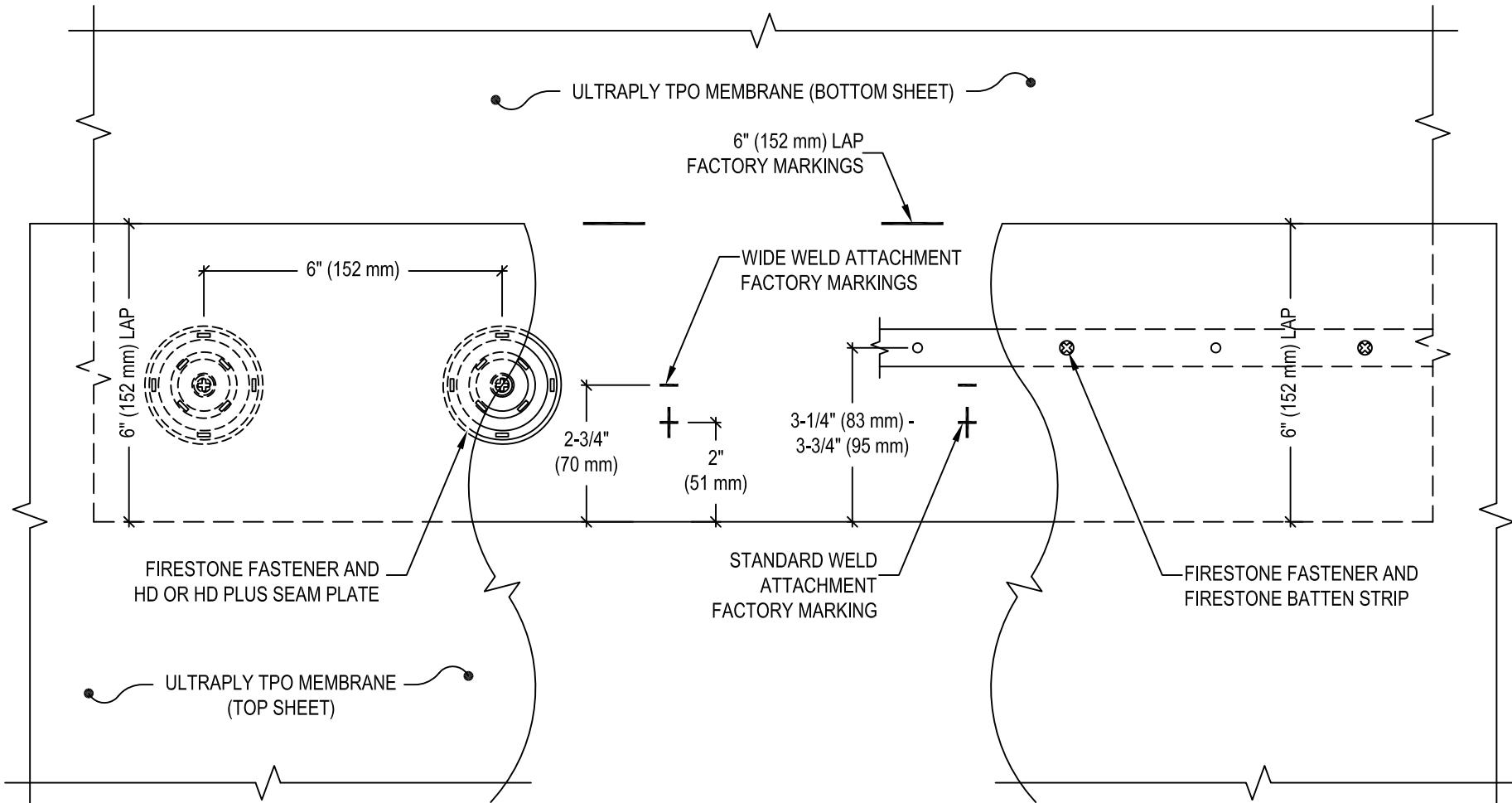
ISSUE / REVISION
DATE:
12/05/2014

NOT TO SCALE

DETAIL NO.
UT-LS-4

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-3 FOR WELD WIDTH



MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.TM
www.firestonebpc.com

LAP SPLICE FASTENER LAYOUT FOR WIDE WELD SEAM

ULTRAPLYTM TPO

ACCEPTABLE SYSTEMS: MAS

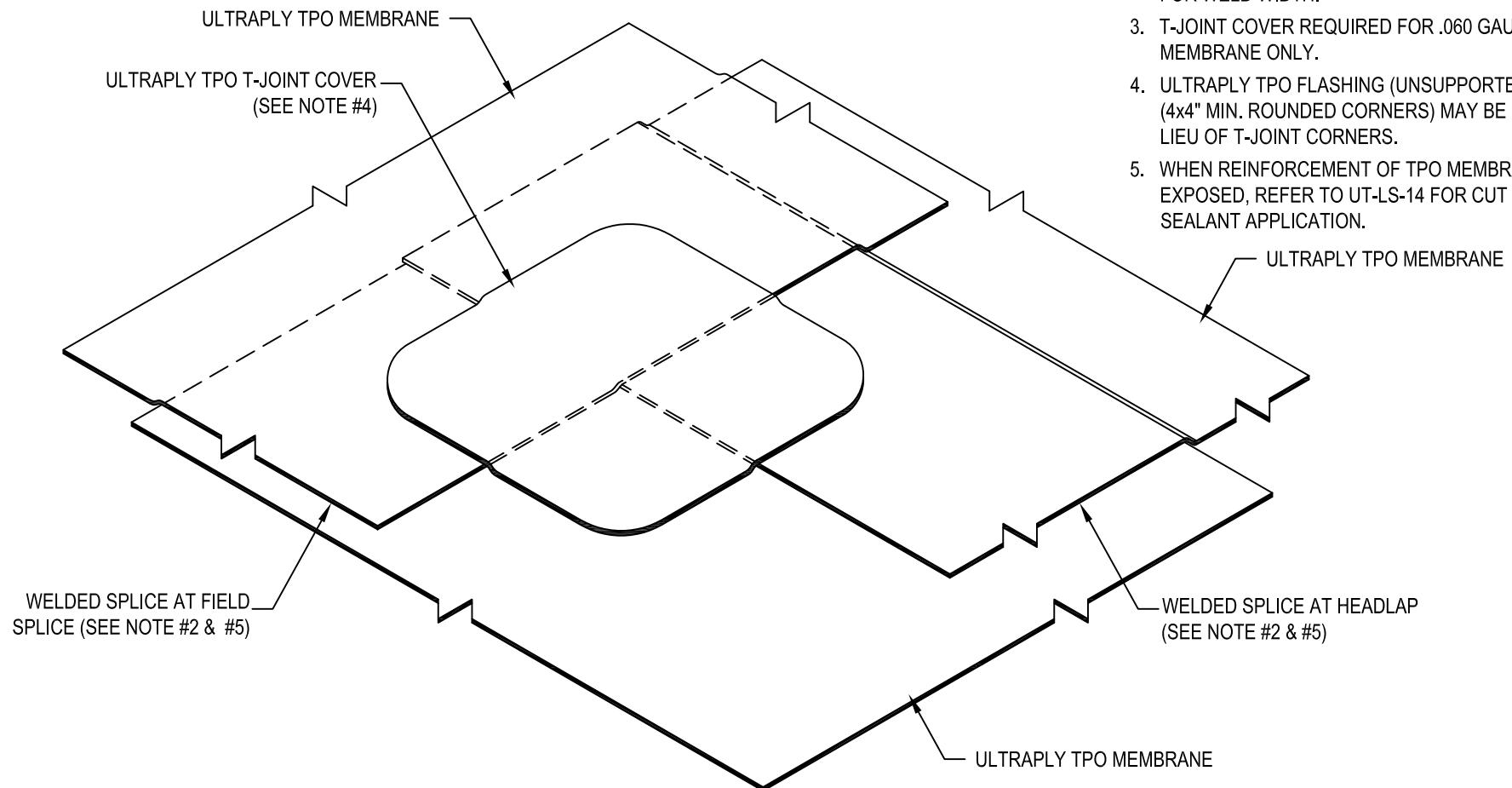
ISSUE / REVISION
DATE:
6/24/2014

NOT TO SCALE

DETAIL NO.
UT-LS-5

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.
3. T-JOINT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTEDZ0 (4x4" MIN. ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JOINT CORNERS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

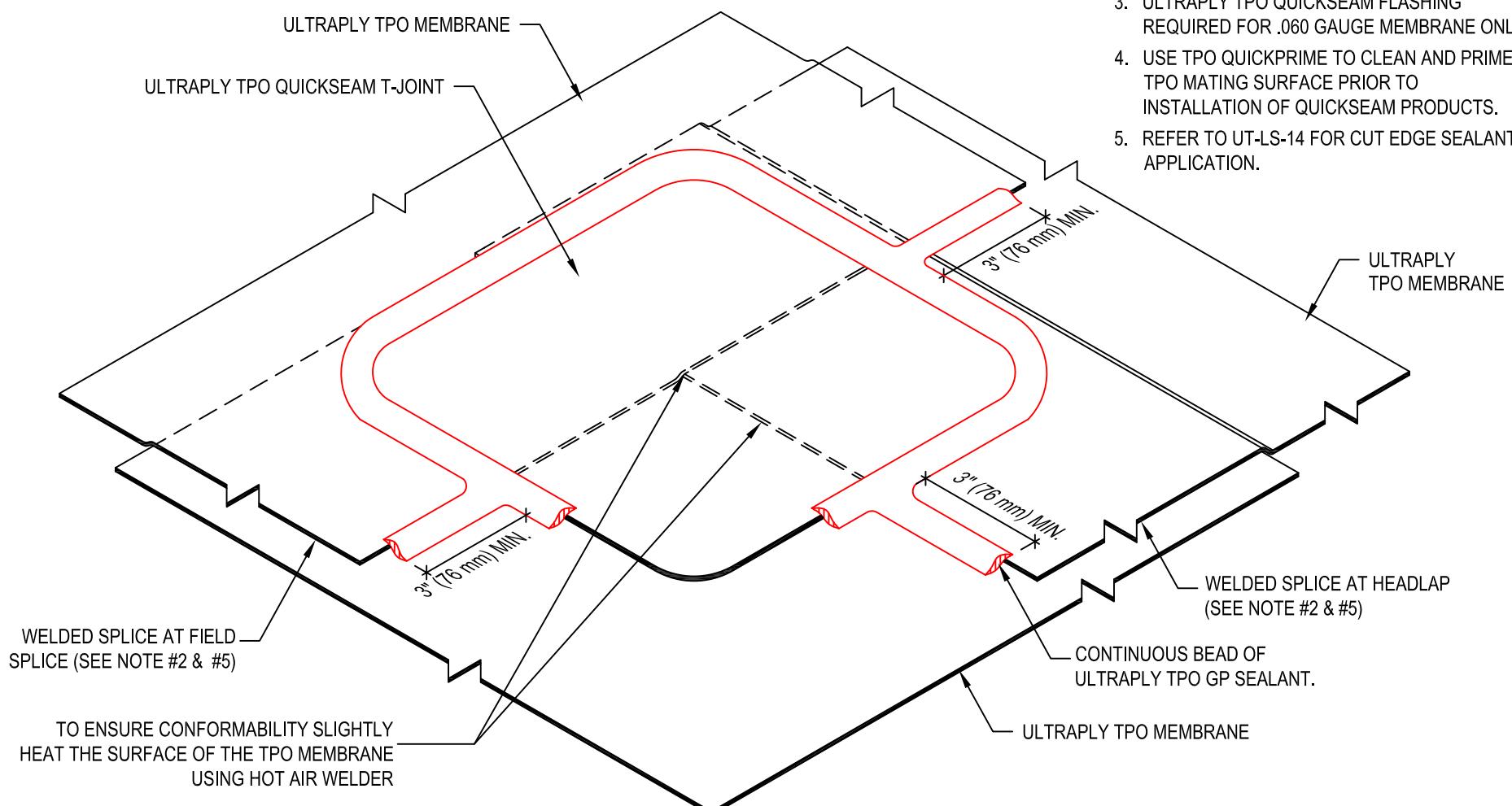


MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	LAP SPLICE WITH HEADLAP UNDER FIELD SEAM USING T-JOINT COVER	ISSUE / REVISION DATE: 7/01/2014	DETAIL NO. UT-LS-6
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

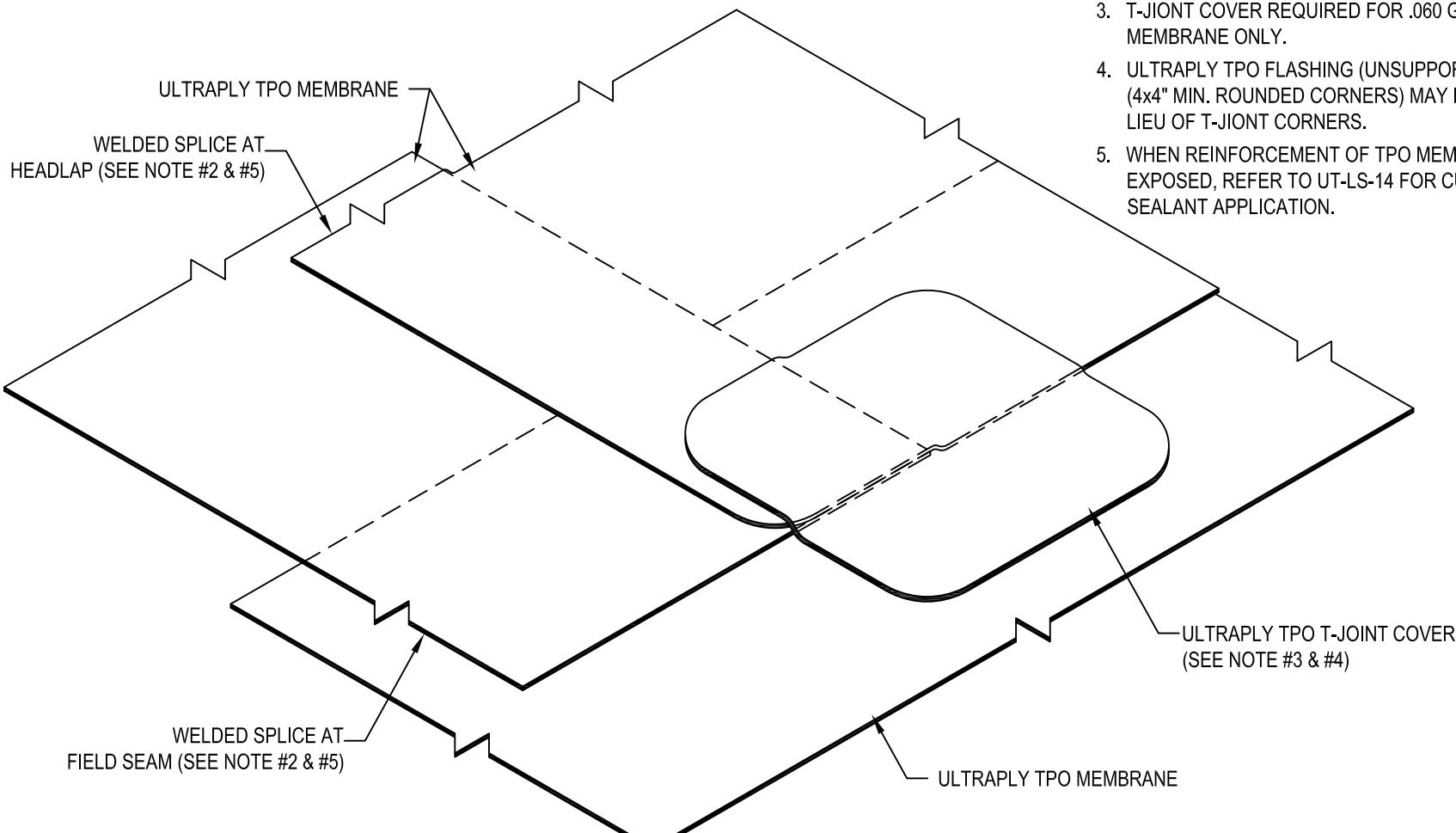
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.
3. ULTRAPLY TPO QUICKSEAM FLASHING REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. USE TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACE PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.
5. REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	LAP SPLICE WITH HEADLAP UNDER FIELD SEAM USING TPO QUICKSEAM T-JOINT	ISSUE / REVISION DATE: 6/24/2014	DETAIL NO. UT-LS-7
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

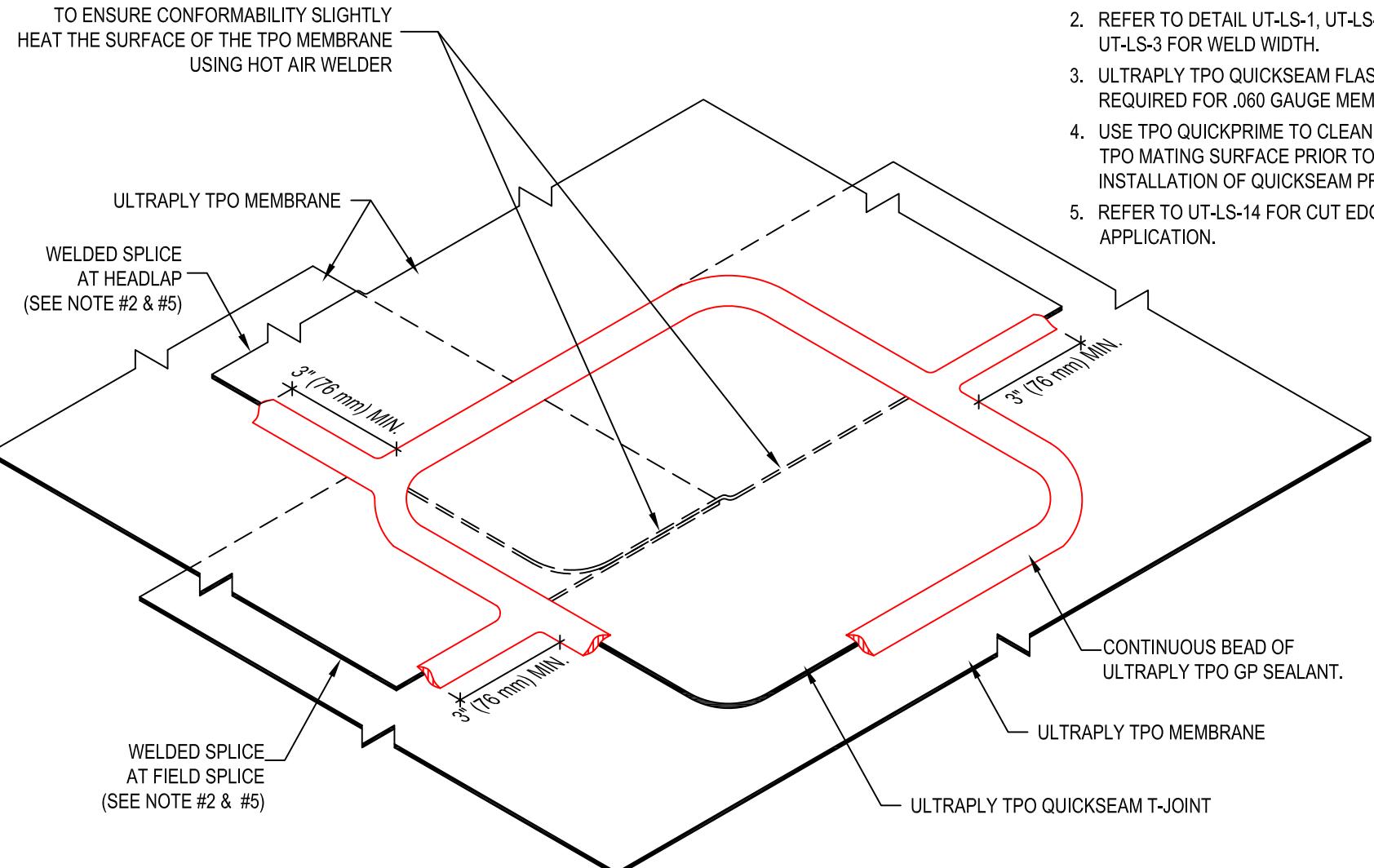


NOTES:

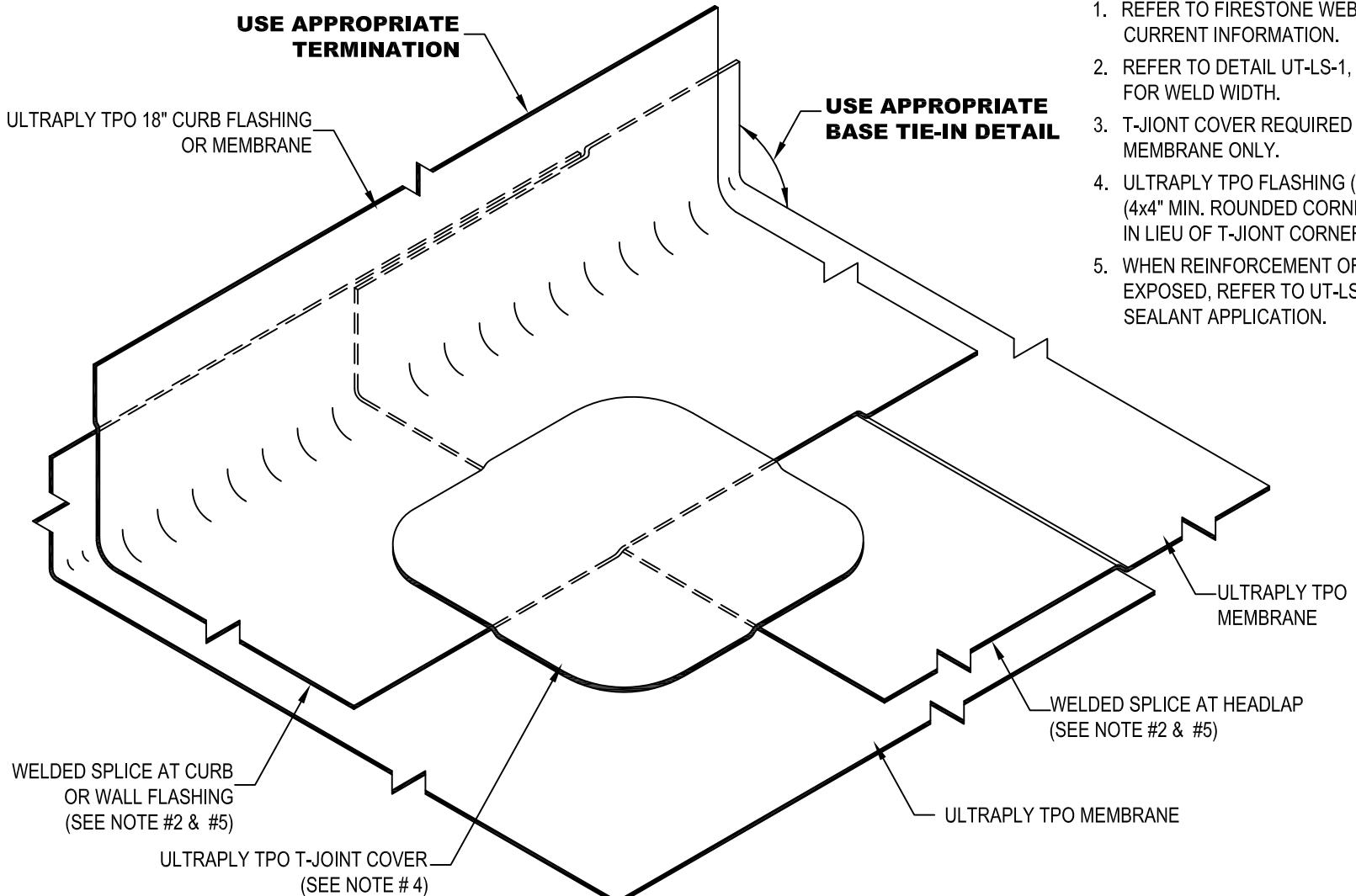
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.
3. T-JIONT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4x4" MIN. ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JIONT CORNERS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	LAP SPLICING WITH HEADLAP OVER FIELD SEAM USING T-JOINT COVER	ISSUE / REVISION DATE: 6/24/2014	DETAIL NO. UT-LS-8
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.
3. T-JIONT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4x4" MIN. ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JIONT CORNERS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

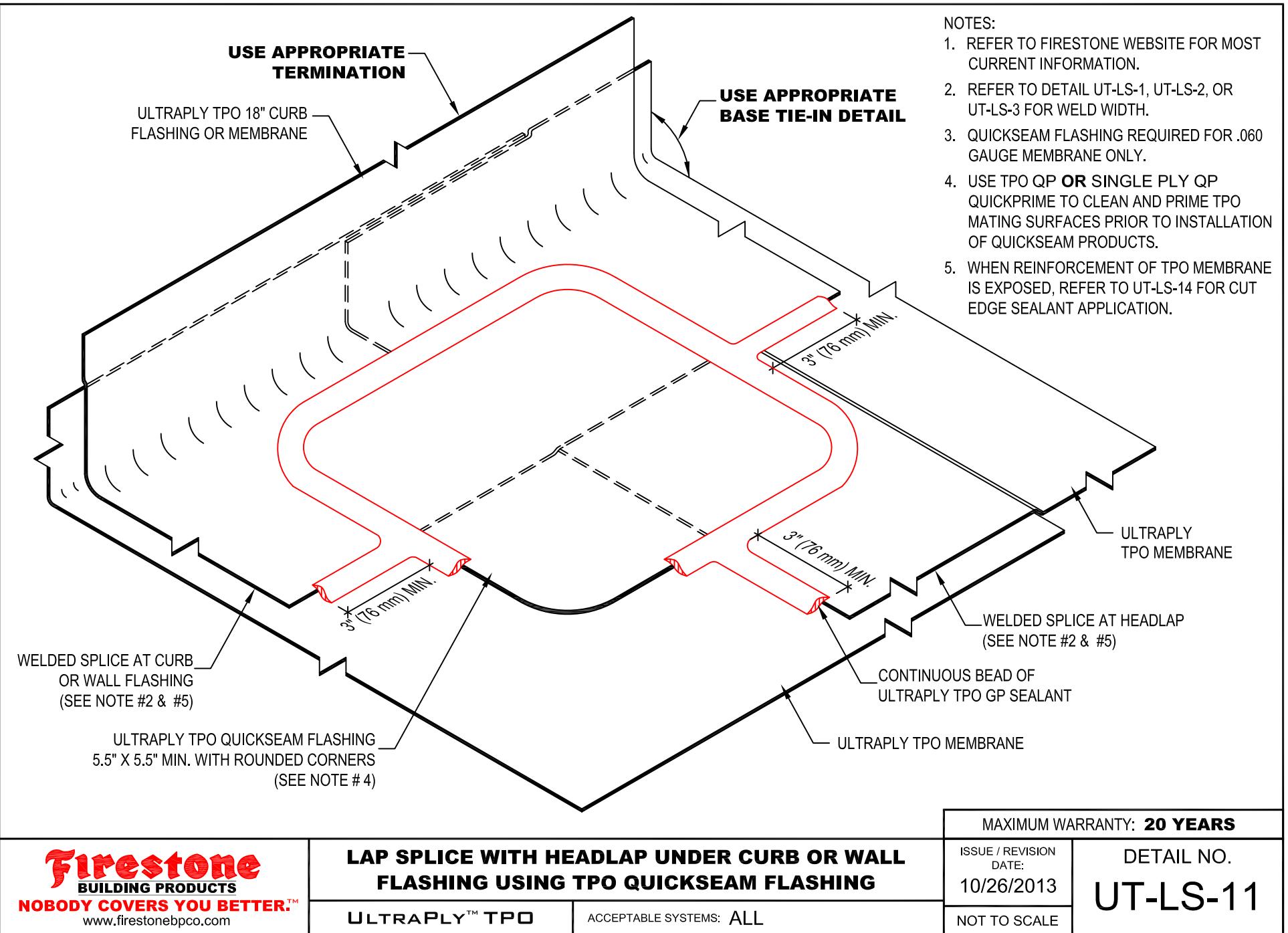
LAP SPLICE WITH HEADLAP UNDER CURB OR WALL FLASHING USING T-JOINT COVER

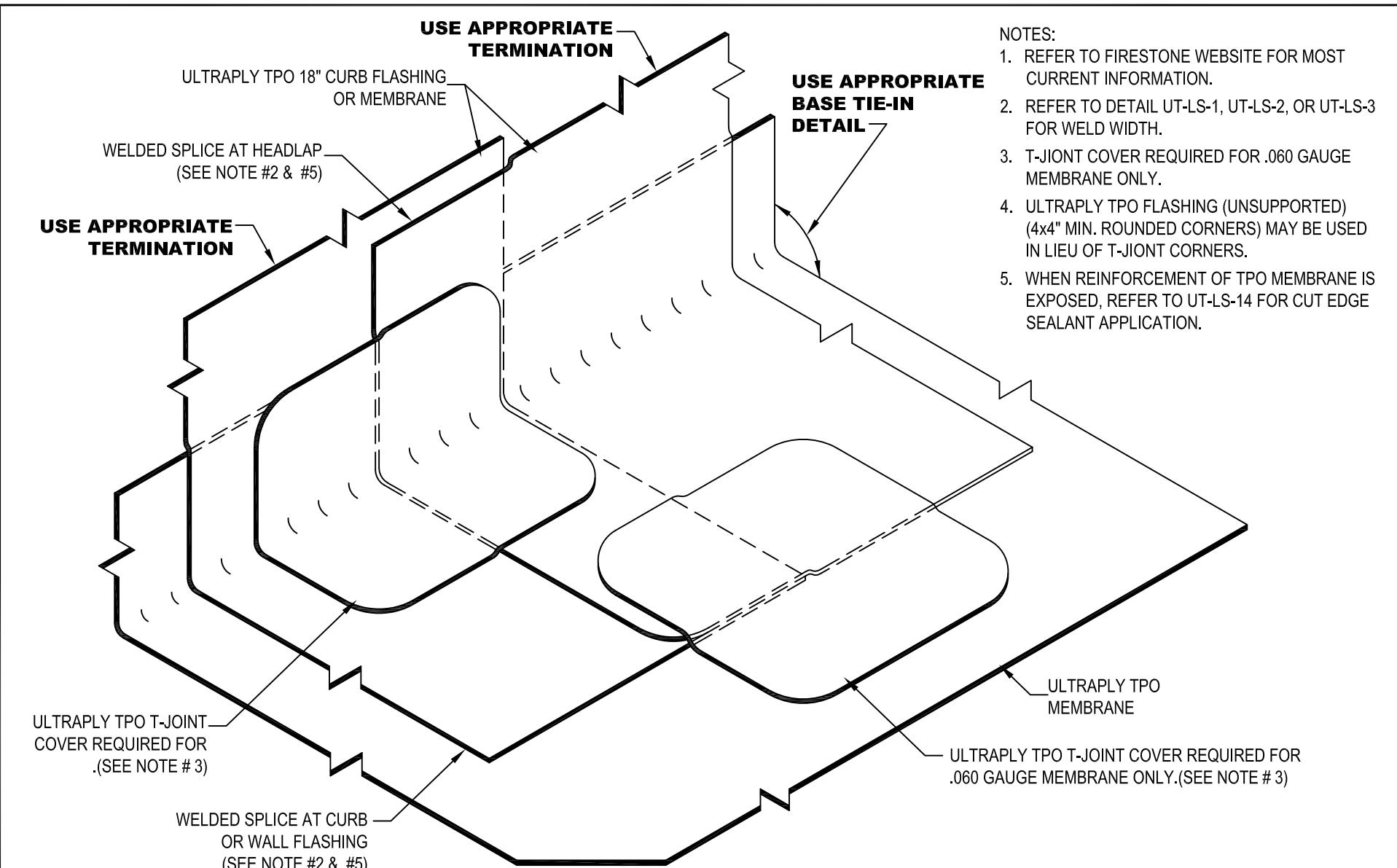
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

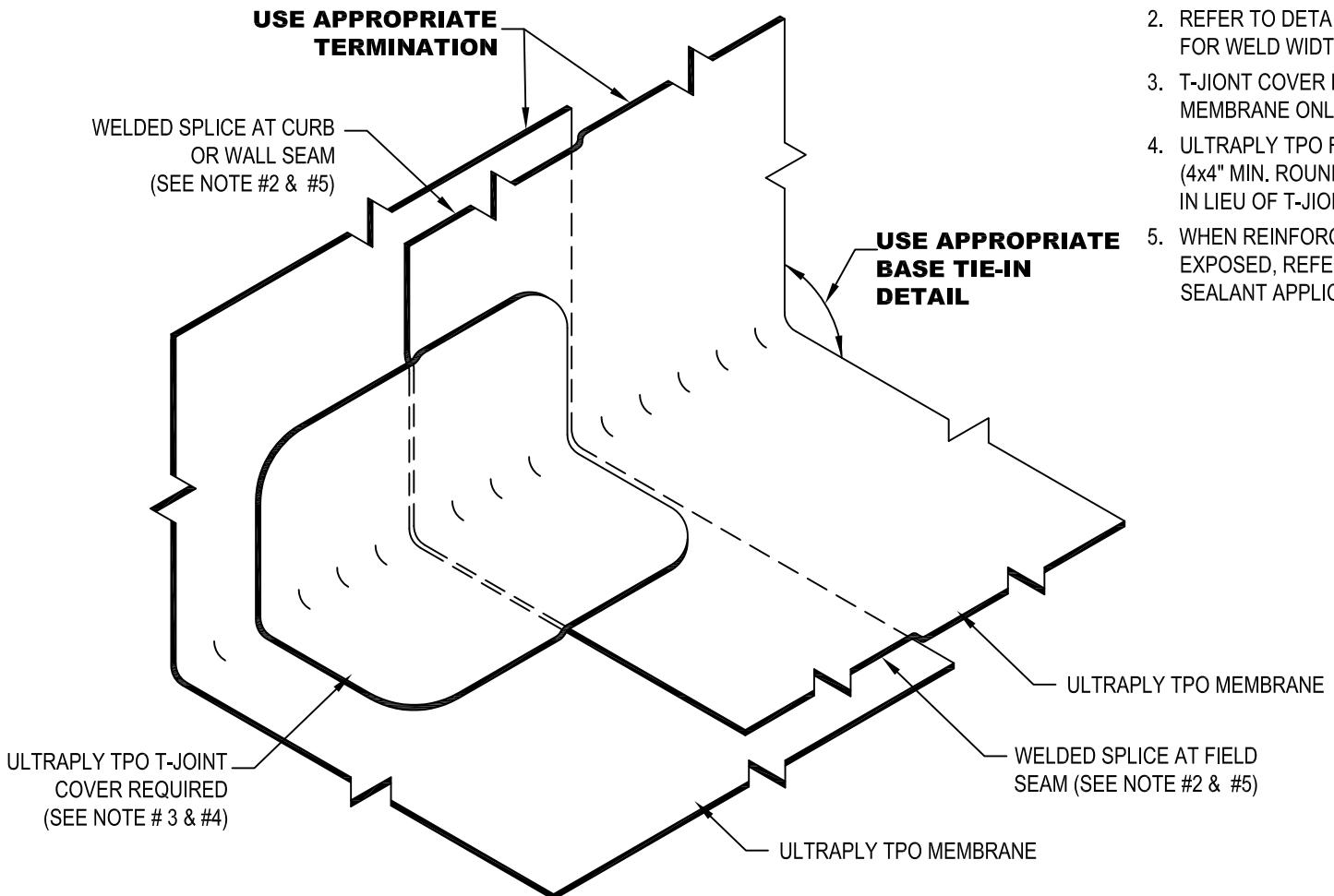
ISSUE / REVISION DATE:
6/24/2014
NOT TO SCALE

DETAIL NO.
UT-LS-10





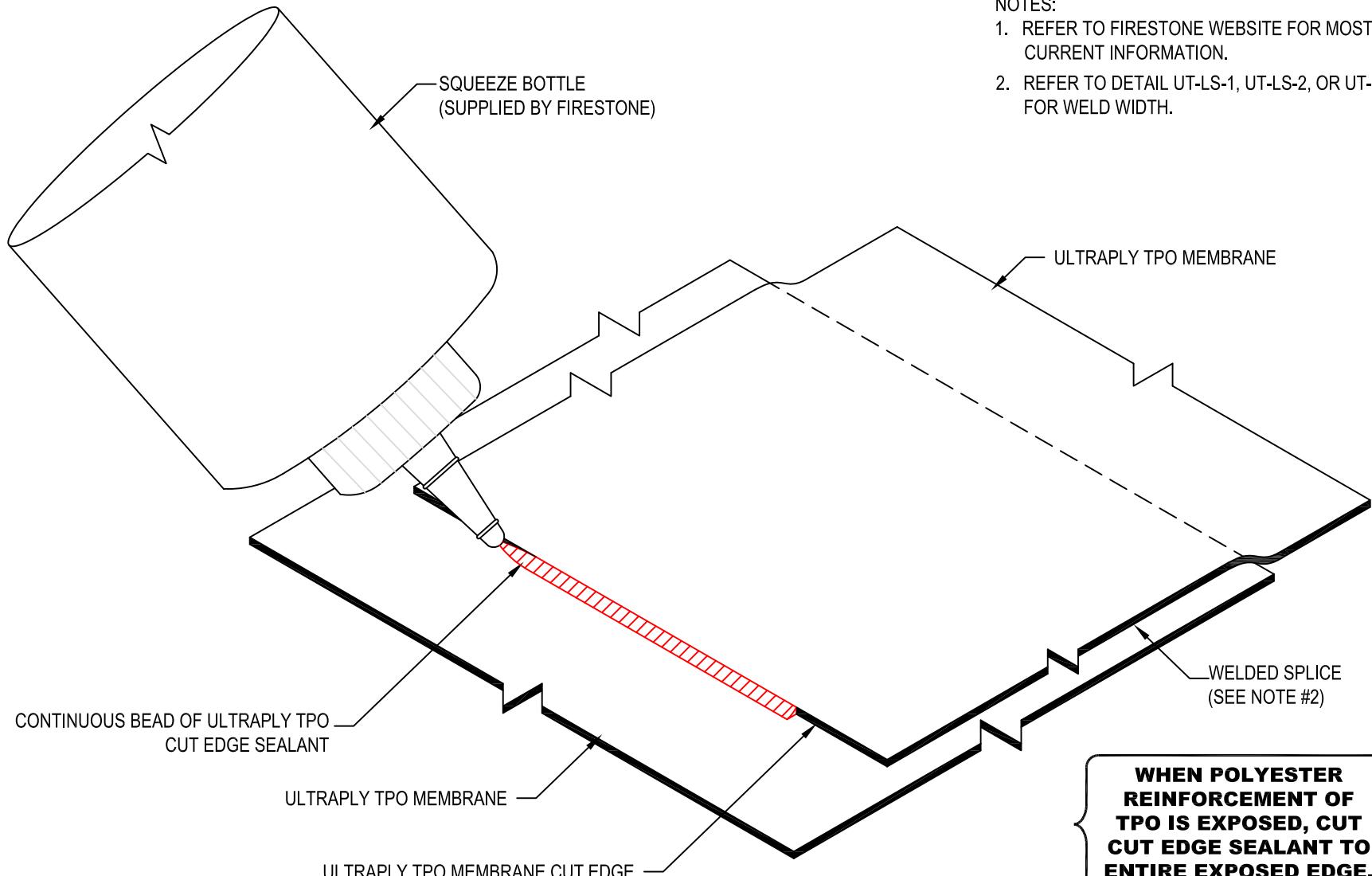
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	LAP SPLICE AT CURB OR WALL FLASHING USING T-JOINT COVER	MAXIMUM WARRANTY: 20 YEARS	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/24/2014
		NOT TO SCALE	DETAIL NO. UT-LS-12



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.
3. T-JIONT COVER REQUIRED FOR .060 GAUGE MEMBRANE ONLY.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) (4x4" MIN. ROUNDED CORNERS) MAY BE USED IN LIEU OF T-JIONT CORNERS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

 NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	LAP SPLICE AT FIELD TO CURB / WALL FLASHING TRANSITION USING T-JOINT COVER	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 6/24/2014	DETAIL NO. UT-LS-13

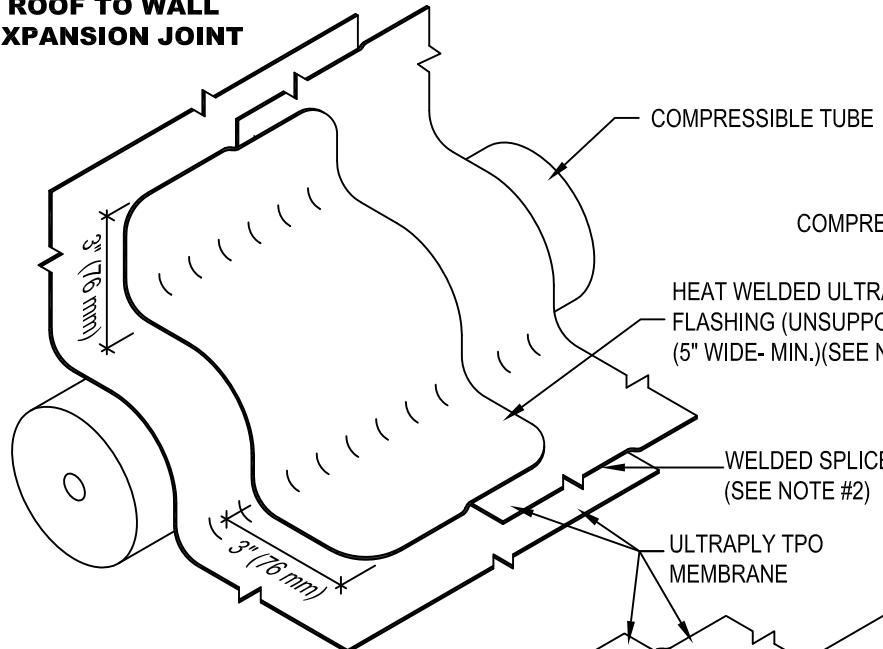


Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	CUT EDGE TREATMENT APPLICATION		MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/24/2014

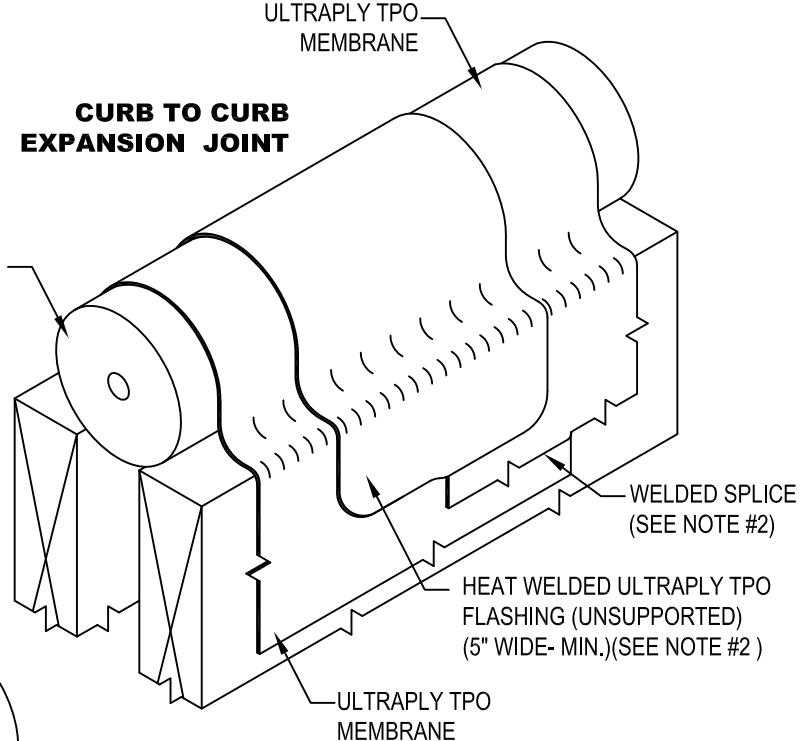
NOT TO SCALE

DETAIL NO.
UT-LS-14

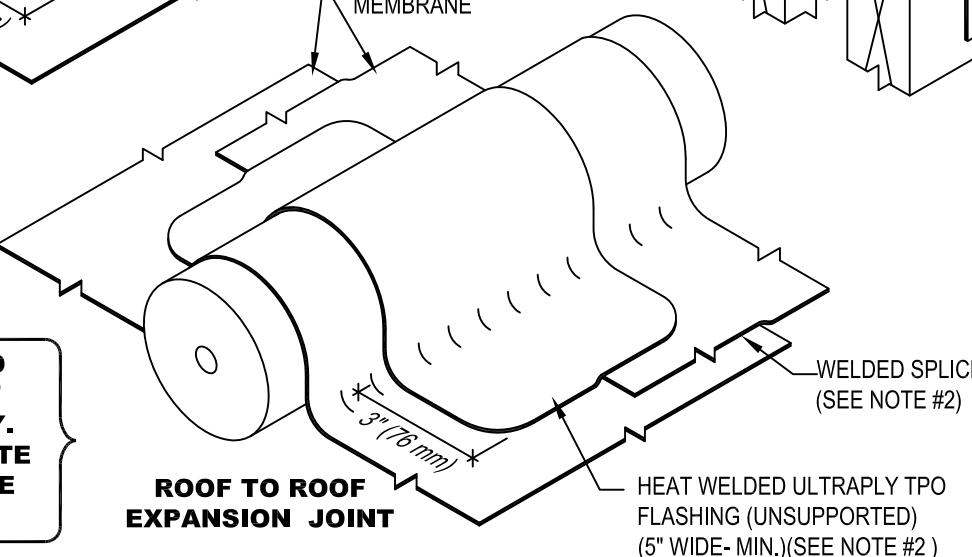
**ROOF TO WALL
EXPANSION JOINT**



**CURB TO CURB
EXPANSION JOINT**



**BASE FLASHING AND
TERMINATIONS NOT
SHOWN FOR CLARITY.
REFER TO APPROPRIATE
TERMINATION & BASE
TIE-IN DETAILS**

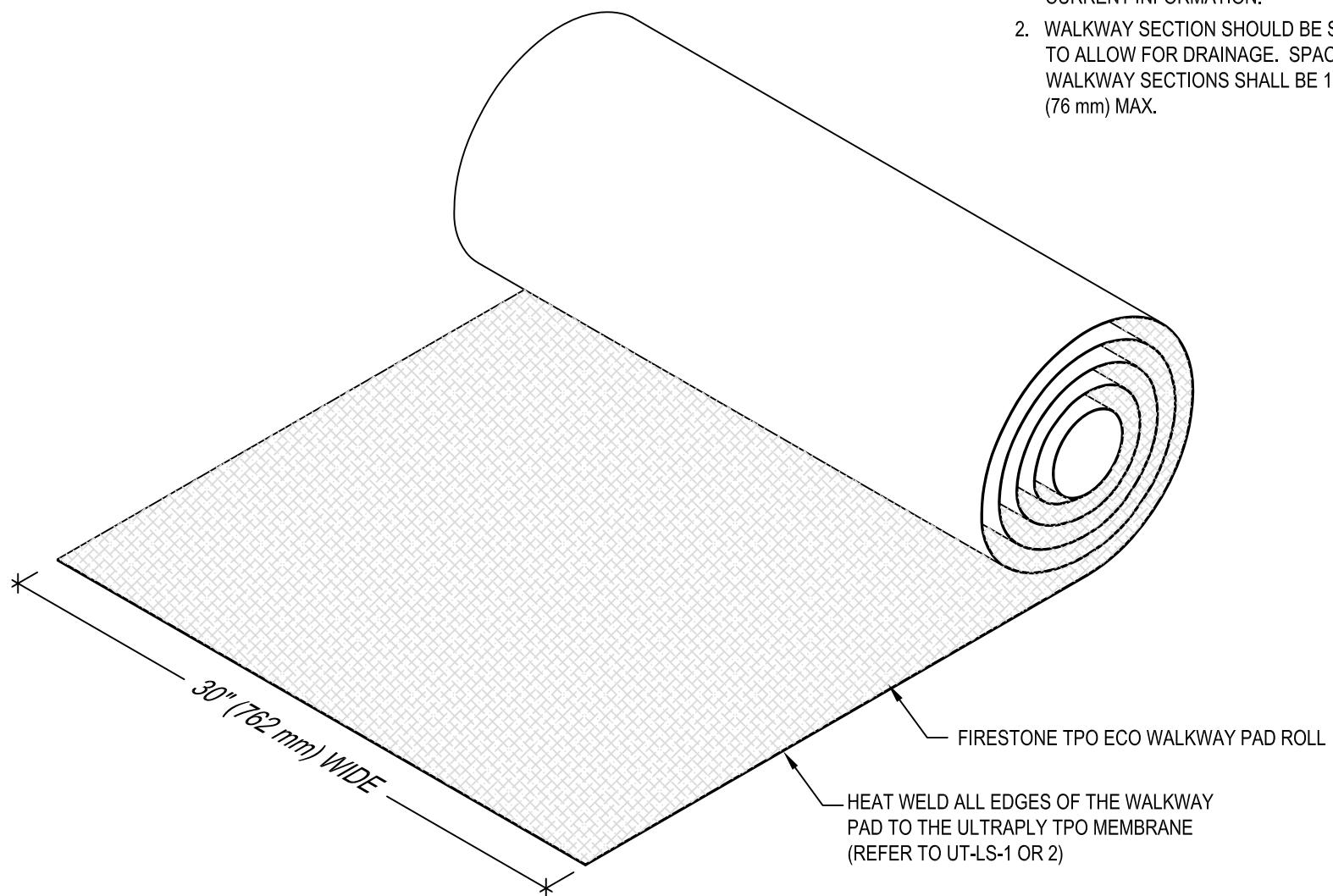


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1, UT-LS-2, OR UT-LS-3 FOR WELD WIDTH.

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WALKWAY SECTION SHOULD BE SPACED PROPERLY TO ALLOW FOR DRAINAGE. SPACE BETWEEN WALKWAY SECTIONS SHALL BE 1" (25 mm) MIN. TO 3" (76 mm) MAX.

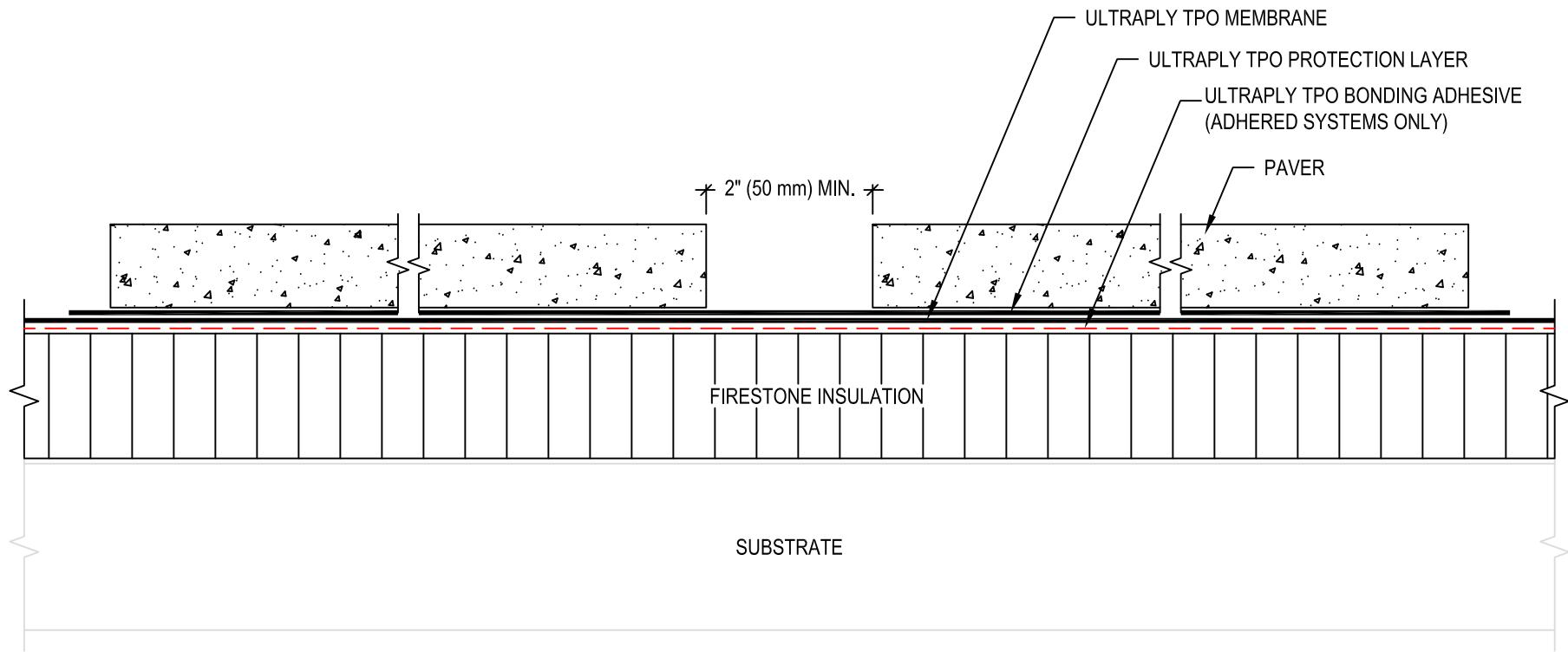


MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.TM www.firestonebpco.com	WALKWAY PAD		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-M-1
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. DO NOT INSTALL OVER FASTENERS OR PLATES



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com
--

CONCRETE WALKWAY PAVER

ULTRAPLY™ TPO

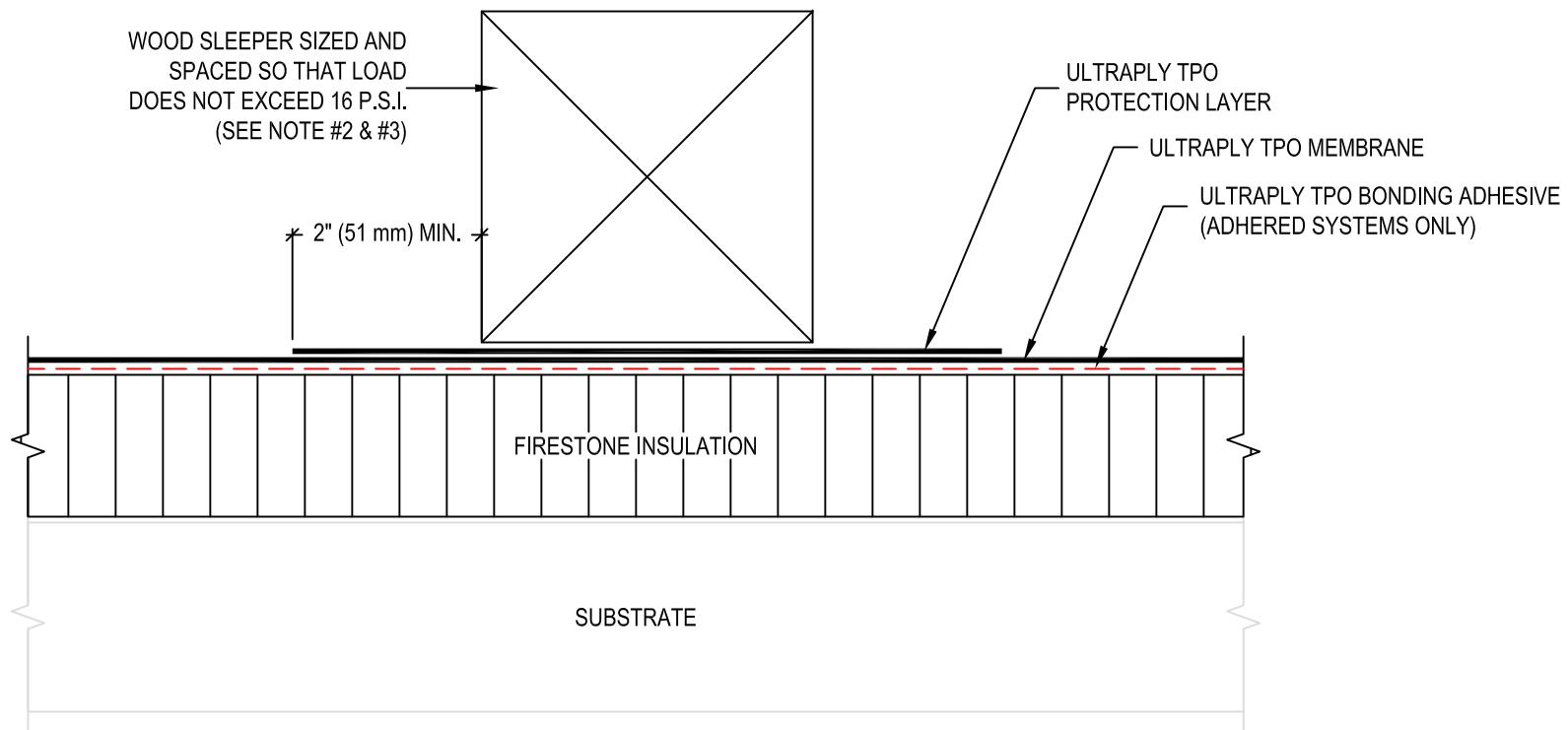
ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-M-2

NOTES:

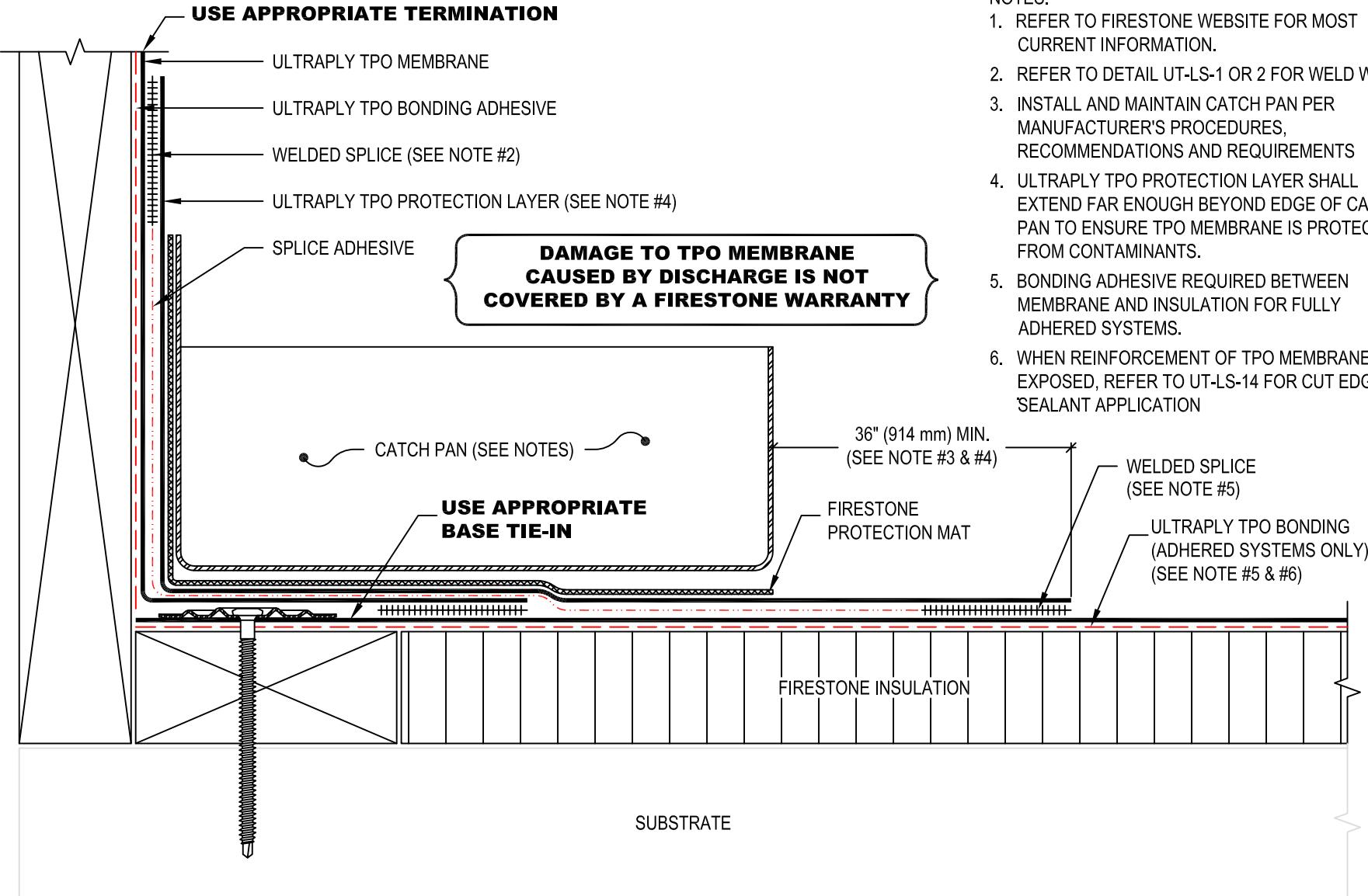
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE RED SHIELD PIPE AND EQUIPMENT SUPPORTS ARE RECOMMENDED IN PLACE OF WOOD SLEEPERS. REFER TO CURRENT TECHNICAL INFORMATION SHEETS.
3. DO NOT INSTALL WOOD SLEEPERS OVER BATTEN STRIPS, FASTENERS HEADS, METAL PLATES OR FIELD SEAMS.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	WOOD SLEEPER		ISSUE / REVISION DATE: 7/22/2014 NOT TO SCALE
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	

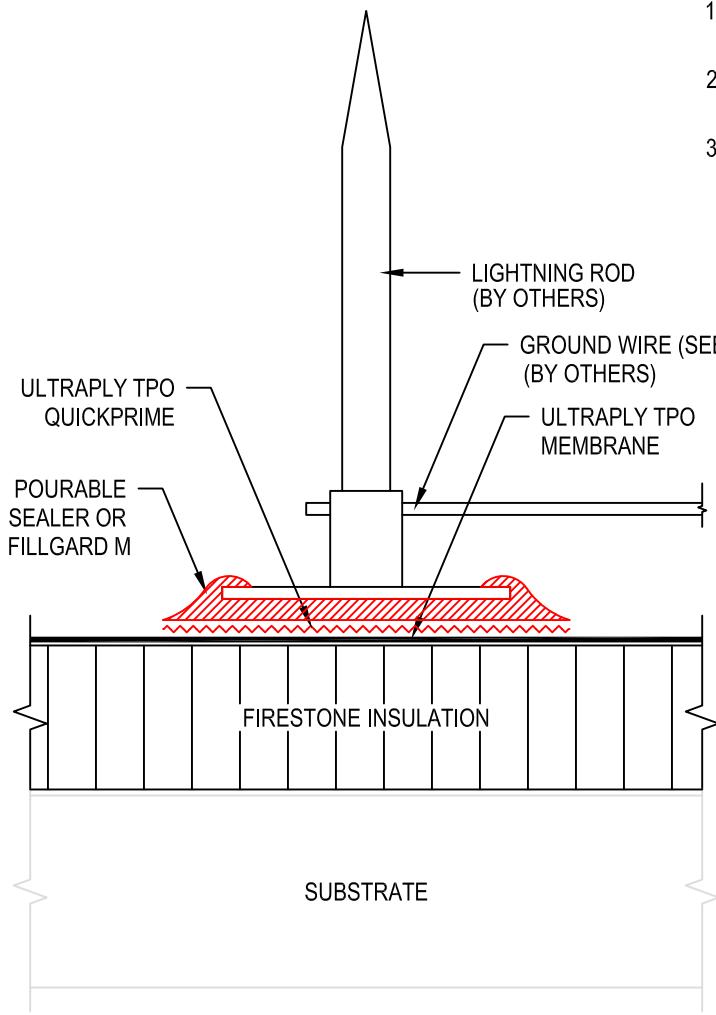
DETAIL NO.
UT-M-4



NOTES:

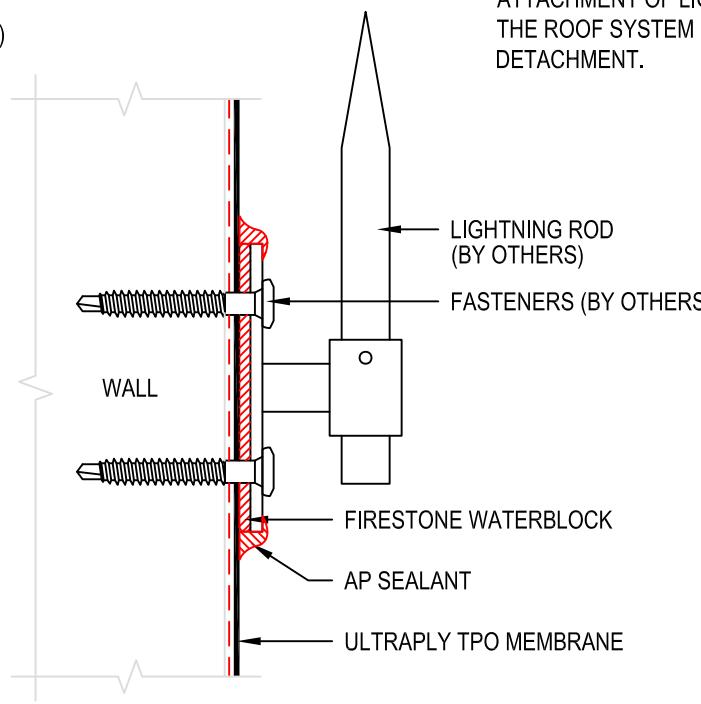
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. INSTALL AND MAINTAIN CATCH PAN PER MANUFACTURER'S PROCEDURES, RECOMMENDATIONS AND REQUIREMENTS
4. ULTRAPLY TPO PROTECTION LAYER SHALL EXTEND FAR ENOUGH BEYOND EDGE OF CATCH PAN TO ENSURE TPO MEMBRANE IS PROTECTED FROM CONTAMINANTS.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION

MAXIMUM WARRANTY: **20 YEARS**



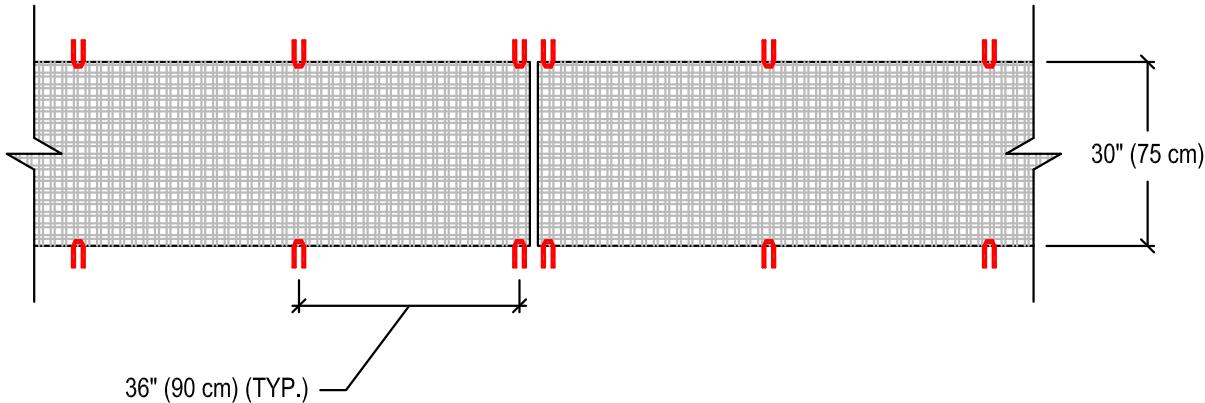
ROOF MOUNT

- NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
 2. GROUND WIRE SUPPORTS SHALL BE INSTALLED IN A SIMILAR MANNER TO LIGHTNING RODS.
 3. A SUFFICIENT NUMBER OF GROUND WIRE SUPPORTS MUST BE INSTALLED SO THAT THE GROUND WIRE DOES NOT COME IN CONTACT WITH FIELD OR FLASHING MEMBRANE



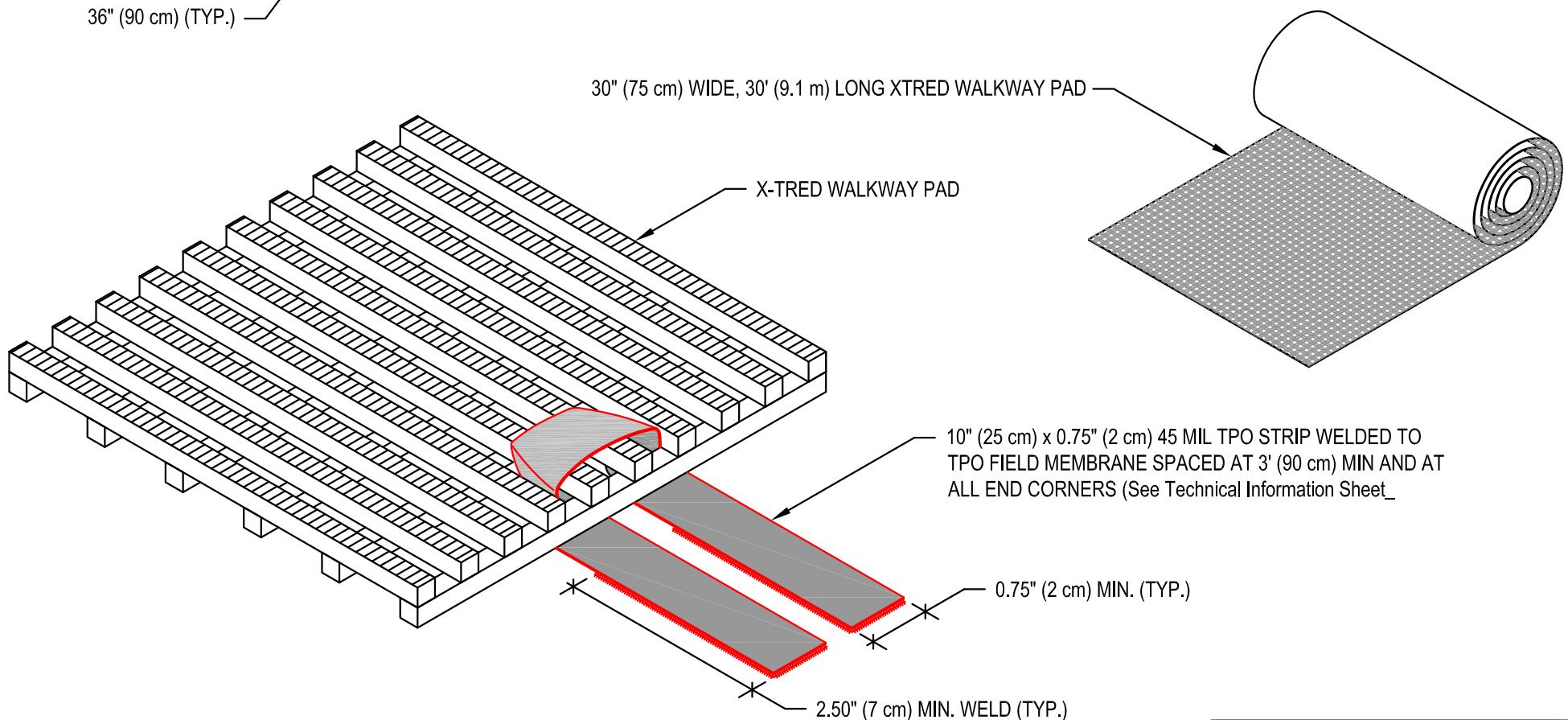
WALL MOUNT

4. IF THE GROUND WIRE MAY COME IN CONTACT WITH THE FIELD OR FLASHING MEMBRANE, FIRESTONE RECOMMENDS INSTALLING ULTRAPLY TPO COVER STRIP UNDER THE GROUND WIRE TO DECREASE THE RISK OF MEMBRANE DAMAGE.
5. BATTEN-IN-THE-SEAM OR MECHANICALLY ATTACHED SYSTEMS REQUIRE THE GROUND WIRE TO BE PLACED PARALLEL AND WITHIN 8" (203 mm) OF THE BATTEN STRIP.
6. FIRESTONE ASSUMES NO RESPONSIBILITY FOR ATTACHMENT OF LIGHTNING RODS OR DAMAGE TO THE ROOF SYSTEM BECAUSE OF FAILURE OR DETACHMENT.

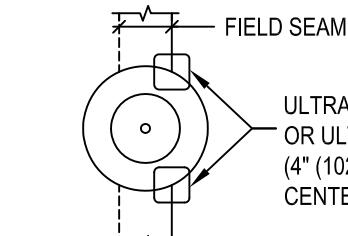


NOTES:

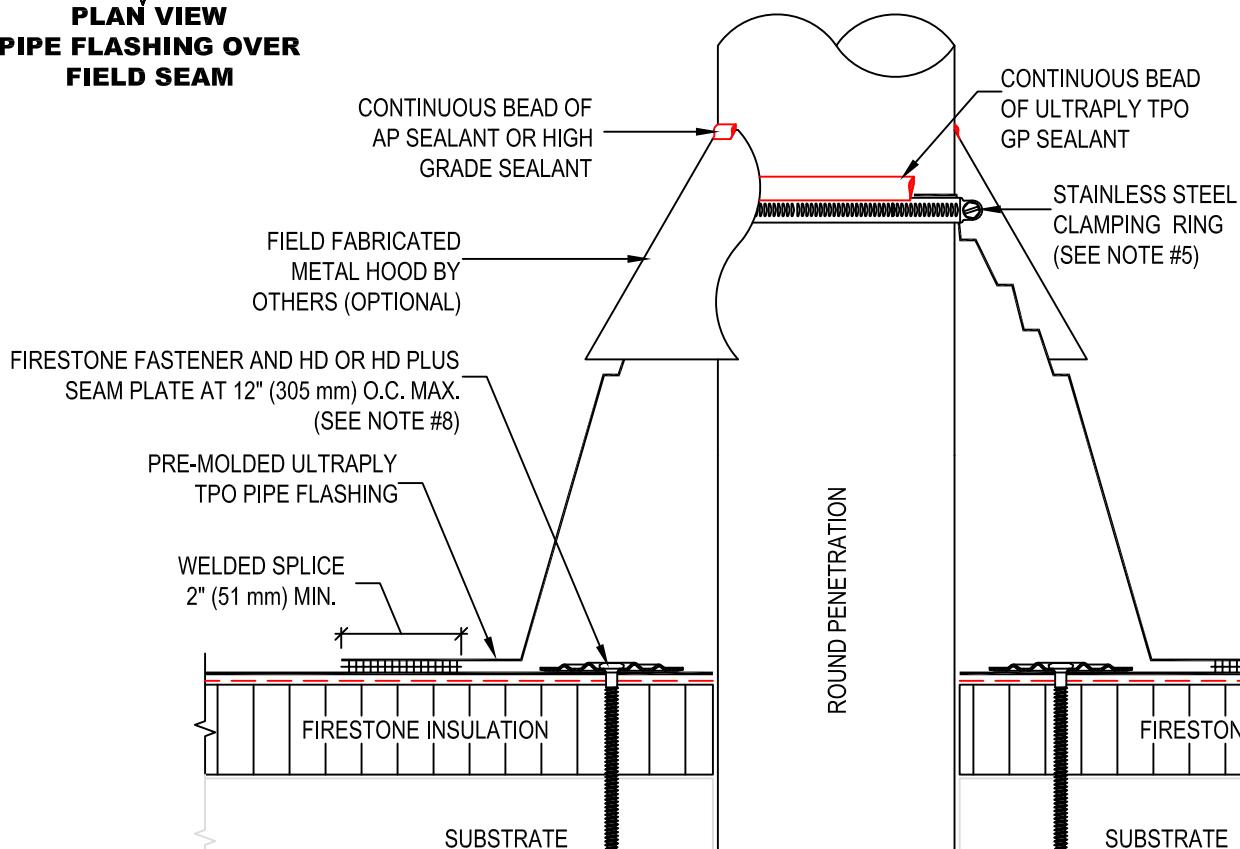
1. REFER TO FIRESTONE WEB SITE FOR MOST CURRENT INFORMATION.
2. WALKWAY SECTIONS SHOULD BE SPACED PROPERLY TO ALLOW FOR DRAINAGE. SPACING BETWEEN WALKWAY SECTIONS SHALL BE 1" (2.5 cm) MIN. TO 3" (7.5 cm) MAX.



MAXIMUM WARRANTY: **30 YEARS**



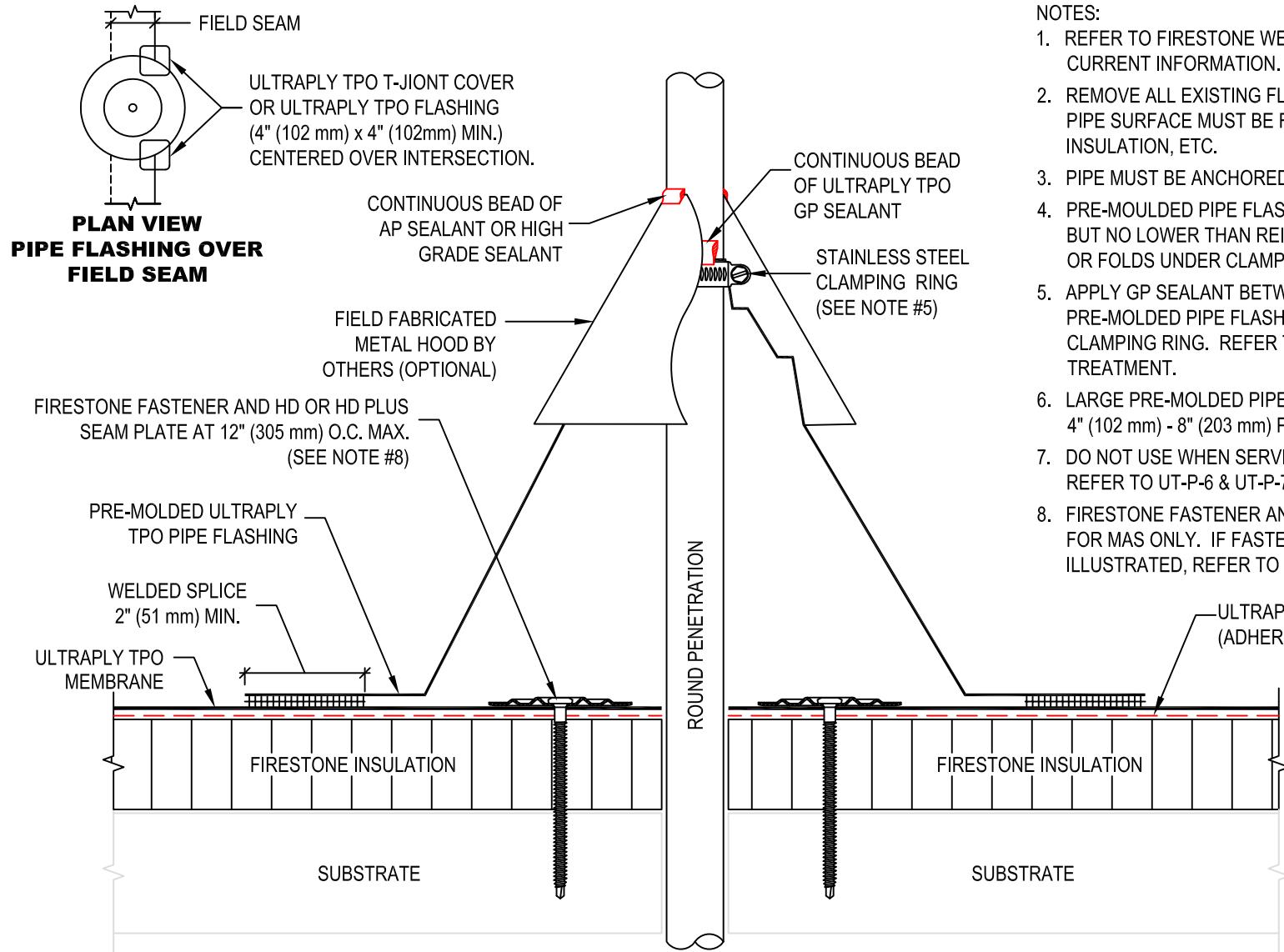
**PLAN VIEW
PIPE FLASHING OVER
FIELD SEAM**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOULDED 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. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. LARGE PRE-MOLDED PIPE FLASHING FITS 4" (102mm) - 8" (203 mm) PENETRATION SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT-P-6 & UT-P-7.
8. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16

MAXIMUM WARRANTY: **20 YEARS**



NOTES:

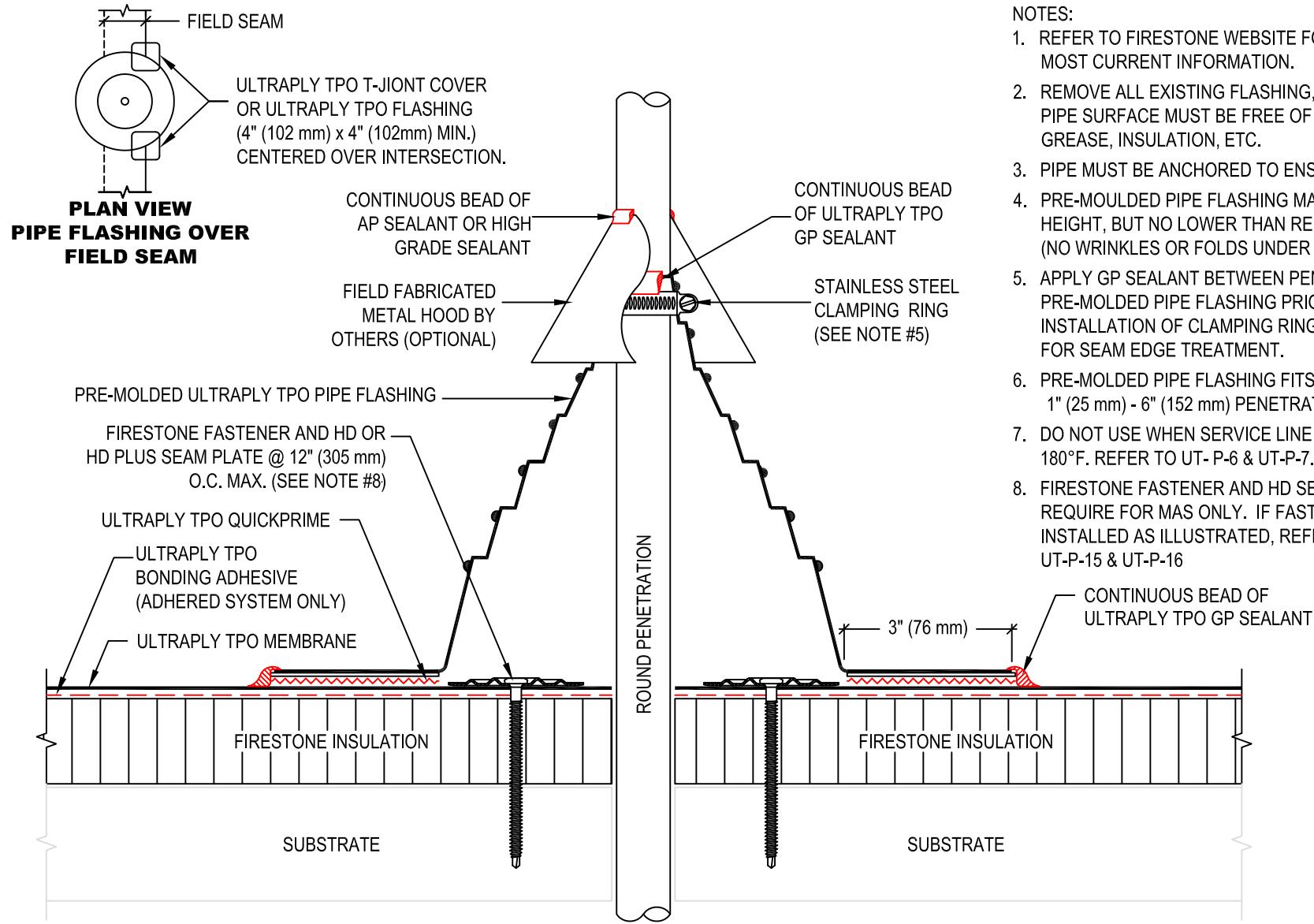
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOULDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
5. APPLY GP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. LARGE PRE-MOLDED PIPE FLASHING FITS 4" (102 mm) - 8" (203 mm) PENETRATIONS SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT-P-6 & UT-P-7.
8. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION DATE:
10/26/2013

DETAIL NO.

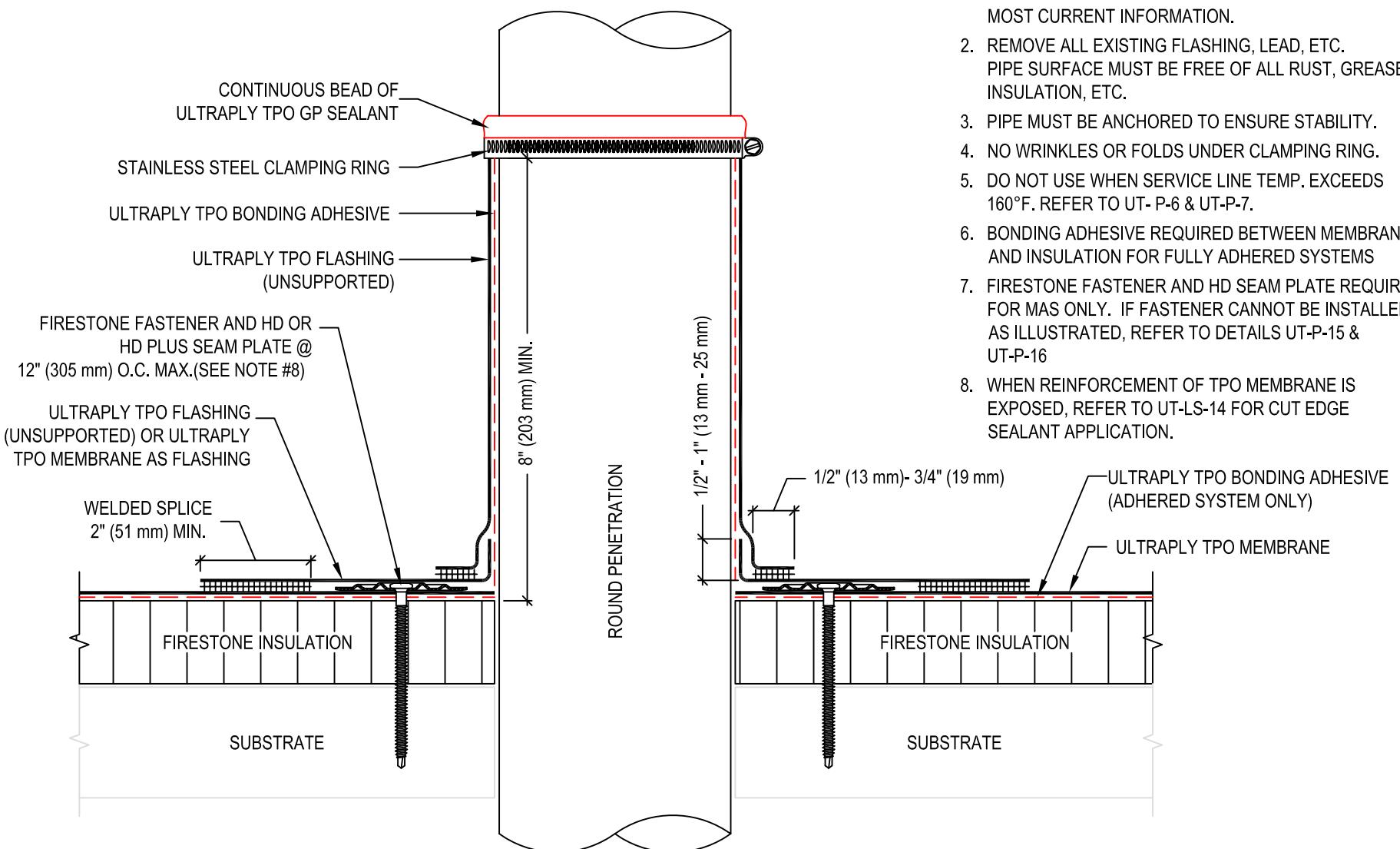
UT-P-2



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOULDED 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. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. PRE-MOLDED PIPE FLASHING FITS 1" (25 mm) - 6" (152 mm) PENETRATIONS SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
8. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16

MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, 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 160°F. REFER TO UT-P-6 & UT-P-7.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: 20 YEARS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

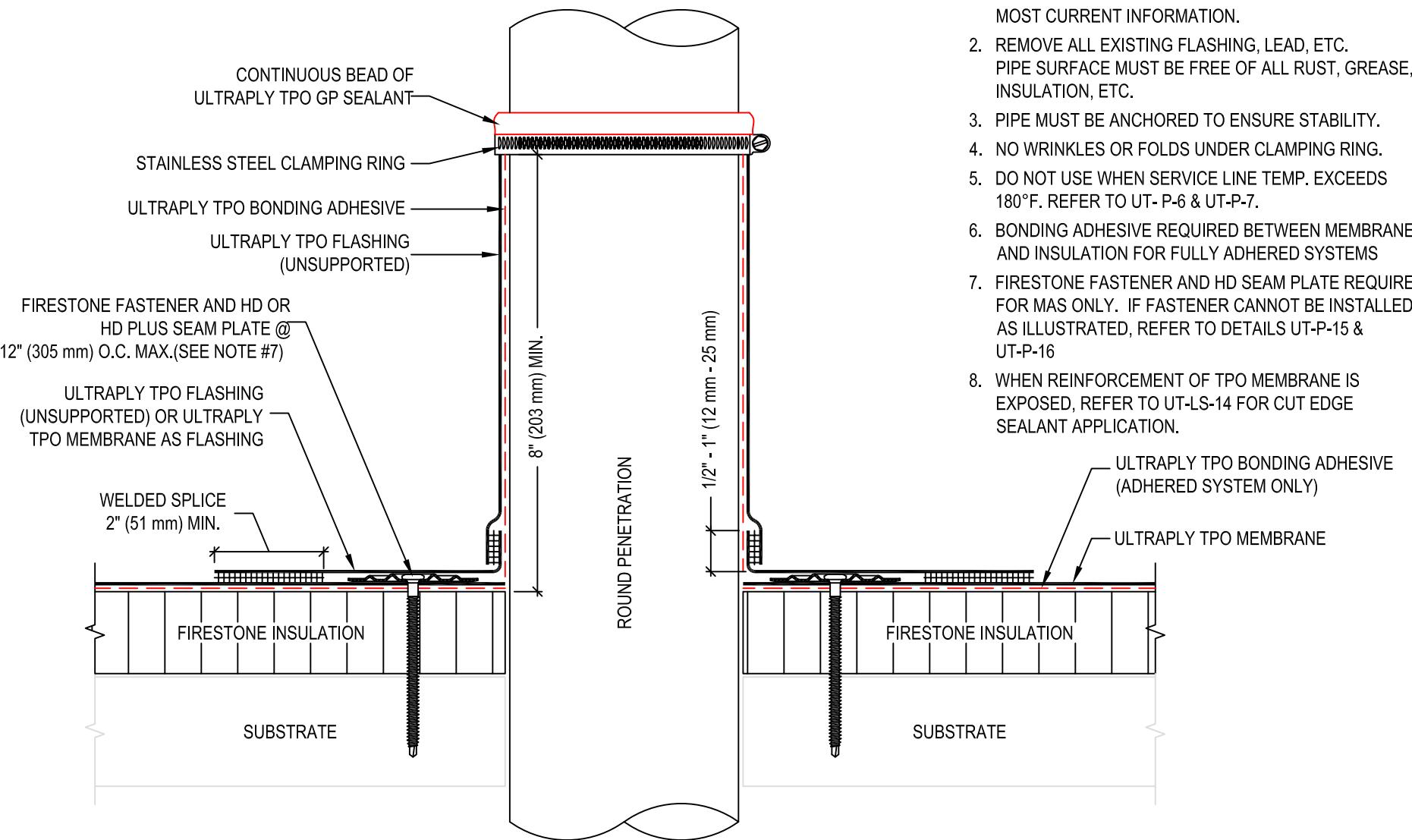
PENETRATION WITH ULTRAPLY TPO FLASHING (UNSUPPORTED)

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: **ALL**

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

**DETAIL NO.
UT-P-4**



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

PENETRATION WITH ULTRAPLY TPO MEMBRANE

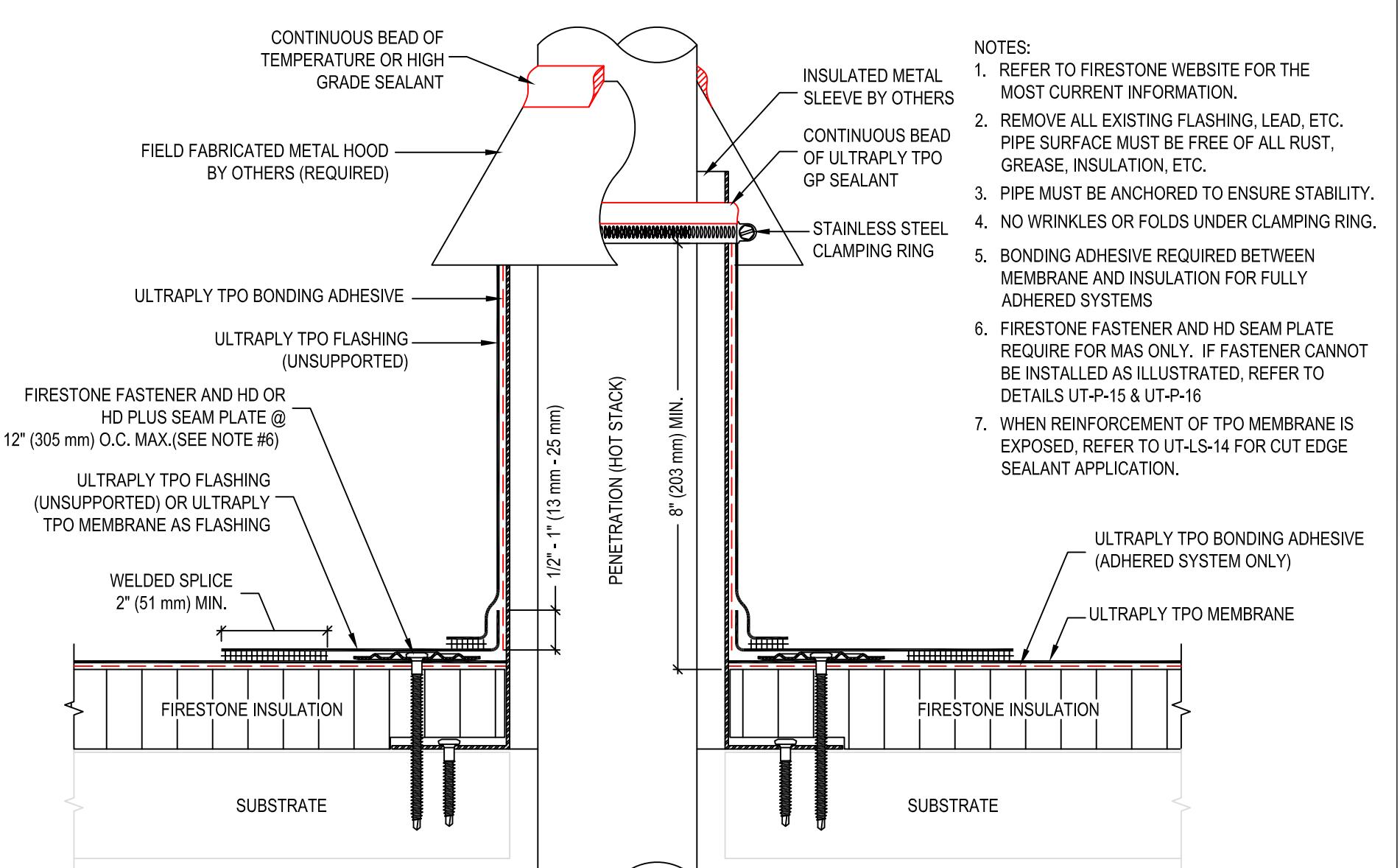
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

DETAIL NO.
UT-P-5



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	
--	--

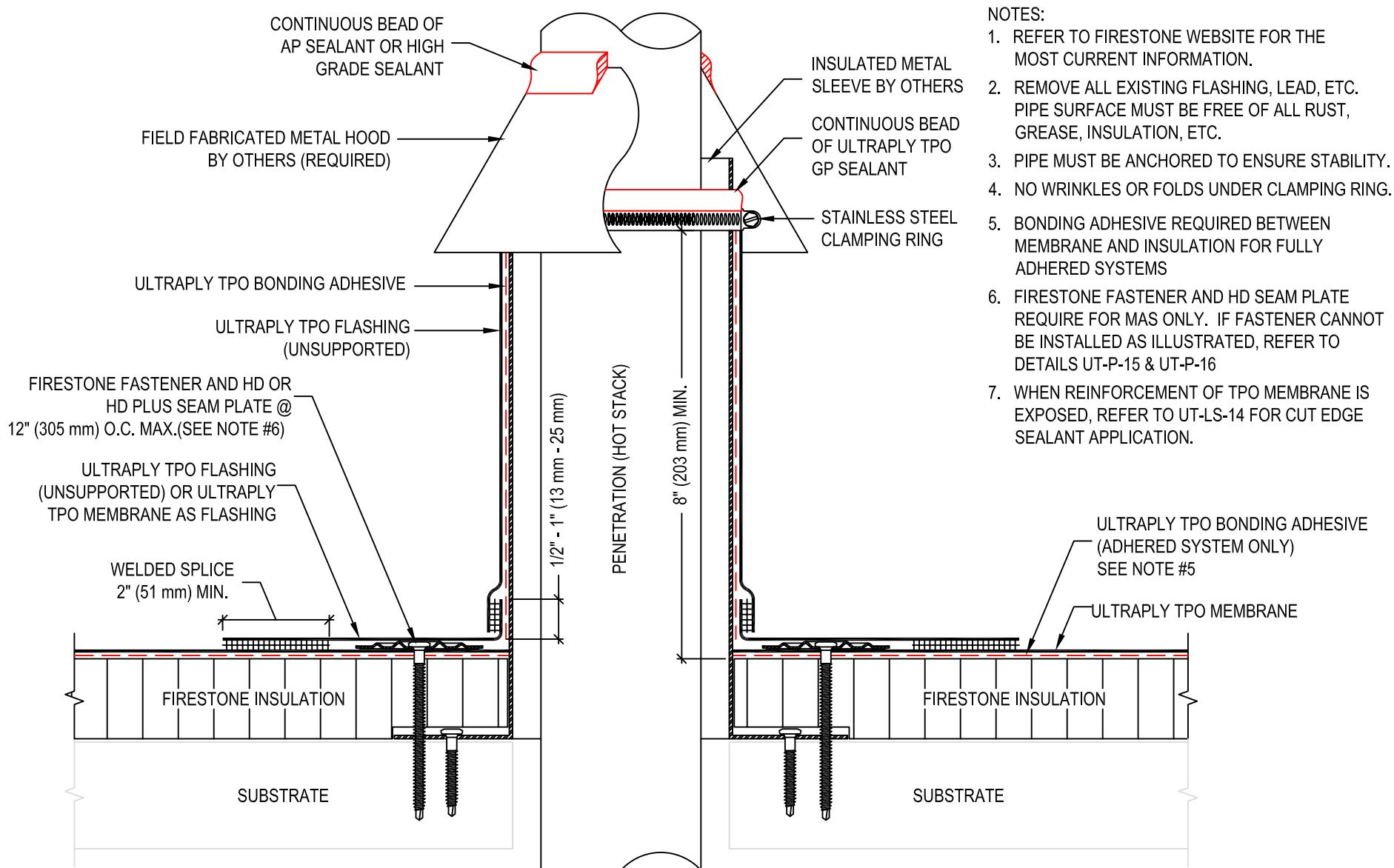
PENETRATION (HOT STACK) WITH ULTRAPLY TPO FLASHING (UNSUPPORTED)

ULTRAPLY™ TPO

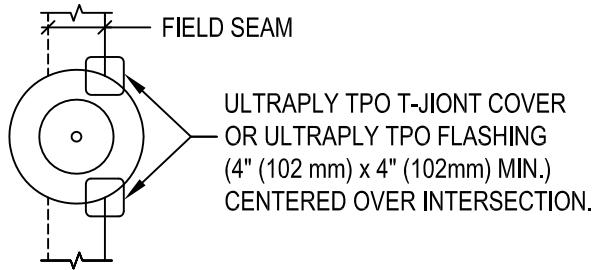
ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-P-6



MAXIMUM WARRANTY: **20 YEARS**



**PLAN VIEW
PIPE FLASHING OVER
FIELD SEAM**

ULTRAPLY TPO QUICKPRIME (SEE NOTE #8)

FIRESTONE POURABLE SEALER

PRE-MOLDED ULTRAPLY TPO PENETRATION POCKET

PRECUT PVC PIPE

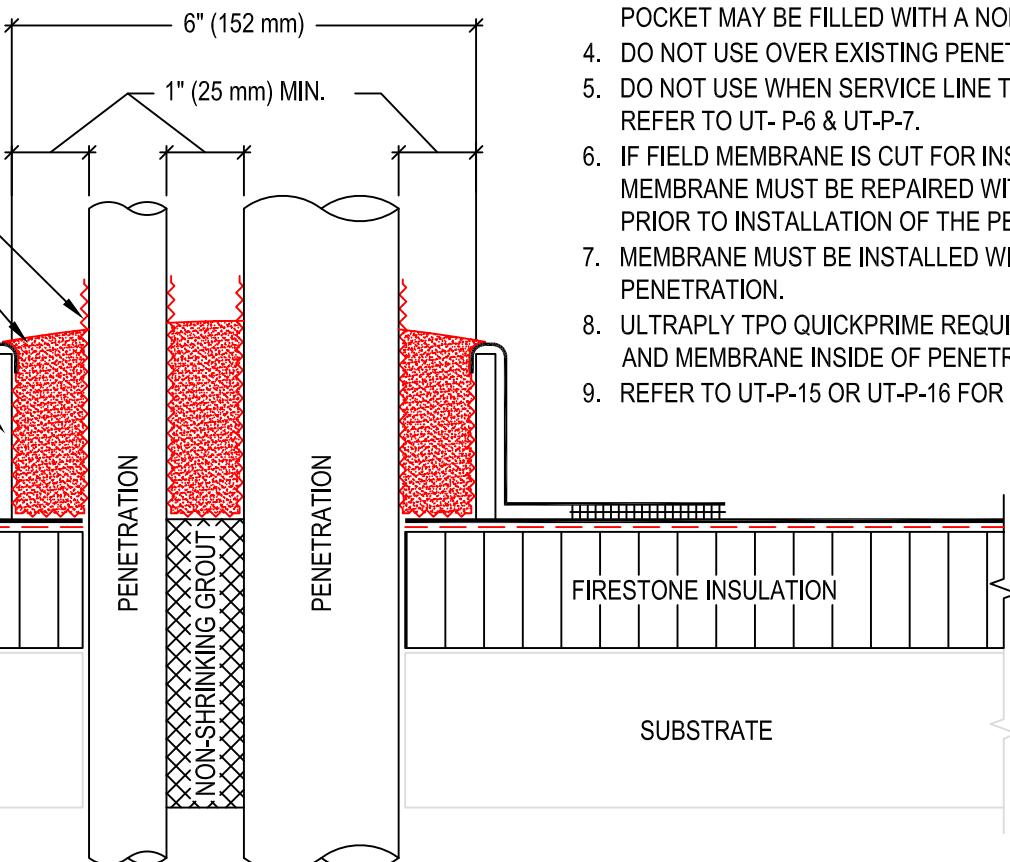
ULTRAPLY TPO MEMBRANE

WELDED SPLICE 2" (51 mm) MIN.

ULTRAPLY TPO BONDING ADHESIVE
(ADHERED SYSTEM ONLY)

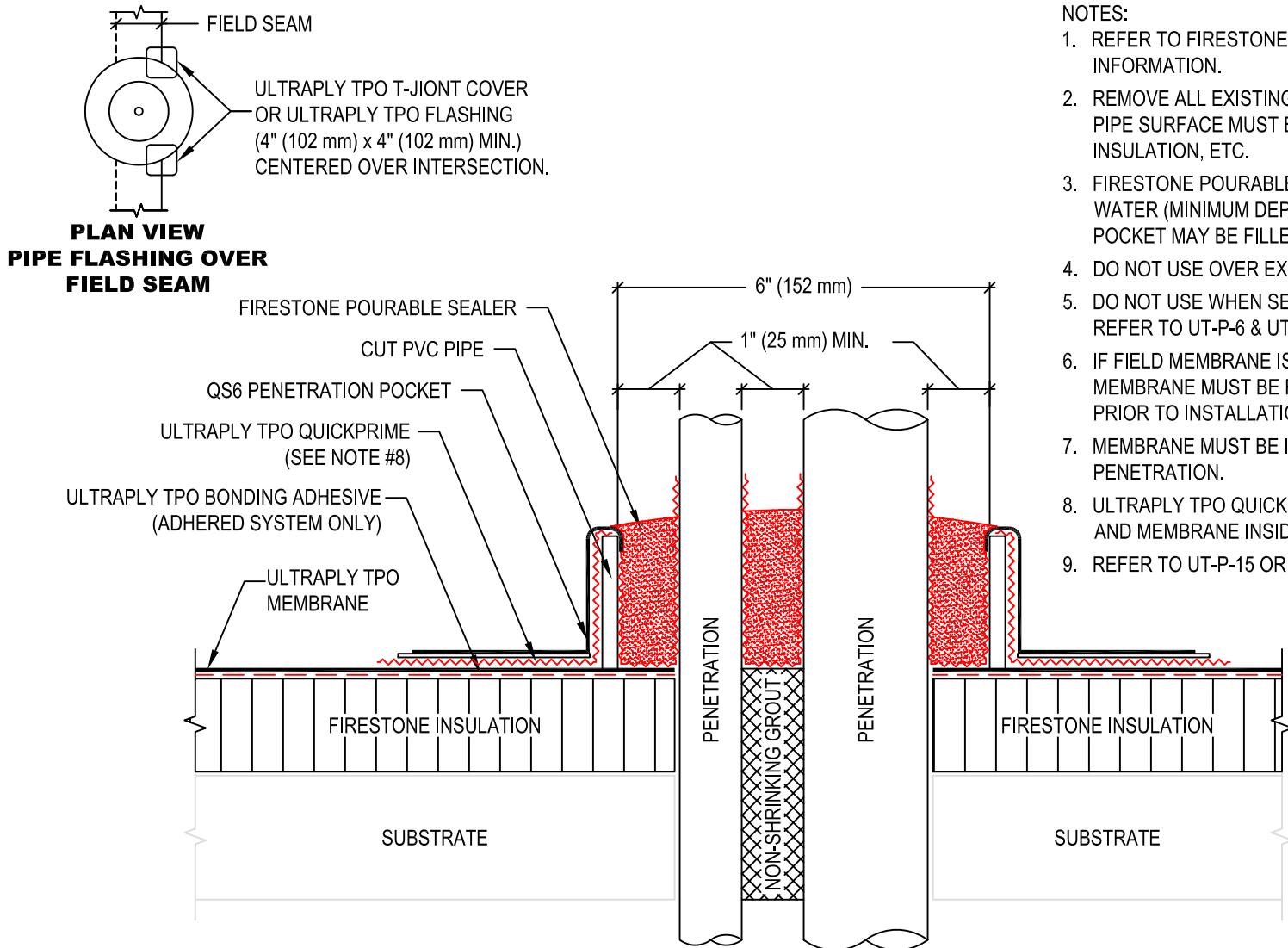
FIRESTONE INSULATION

SUBSTRATE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 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 & UT-P-7.
6. IF FIELD MEMBRANE IS CUT FOR INSULATION, THE MEMBRANE MUST BE REPAIRED WITH TPO MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKETS.
7. MEMBRANE MUST BE INSTALLED WITHIN 1/2" (13 mm) OF PENETRATION.
8. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATIONS.
9. REFER TO UT-P-15 OR UT-P-16 FOR MAS.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 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 & UT-P-7.
6. IF FIELD MEMBRANE IS CUT FOR INSULATION, THE MEMBRANE MUST BE REPAIRED WITH TPO MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKETS.
7. MEMBRANE MUST BE INSTALLED WITHIN 1/2" (13 mm) OF PENETRATION.
8. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATIONS.
9. REFER TO UT-P-15 OR UT-P-16 FOR MAS.

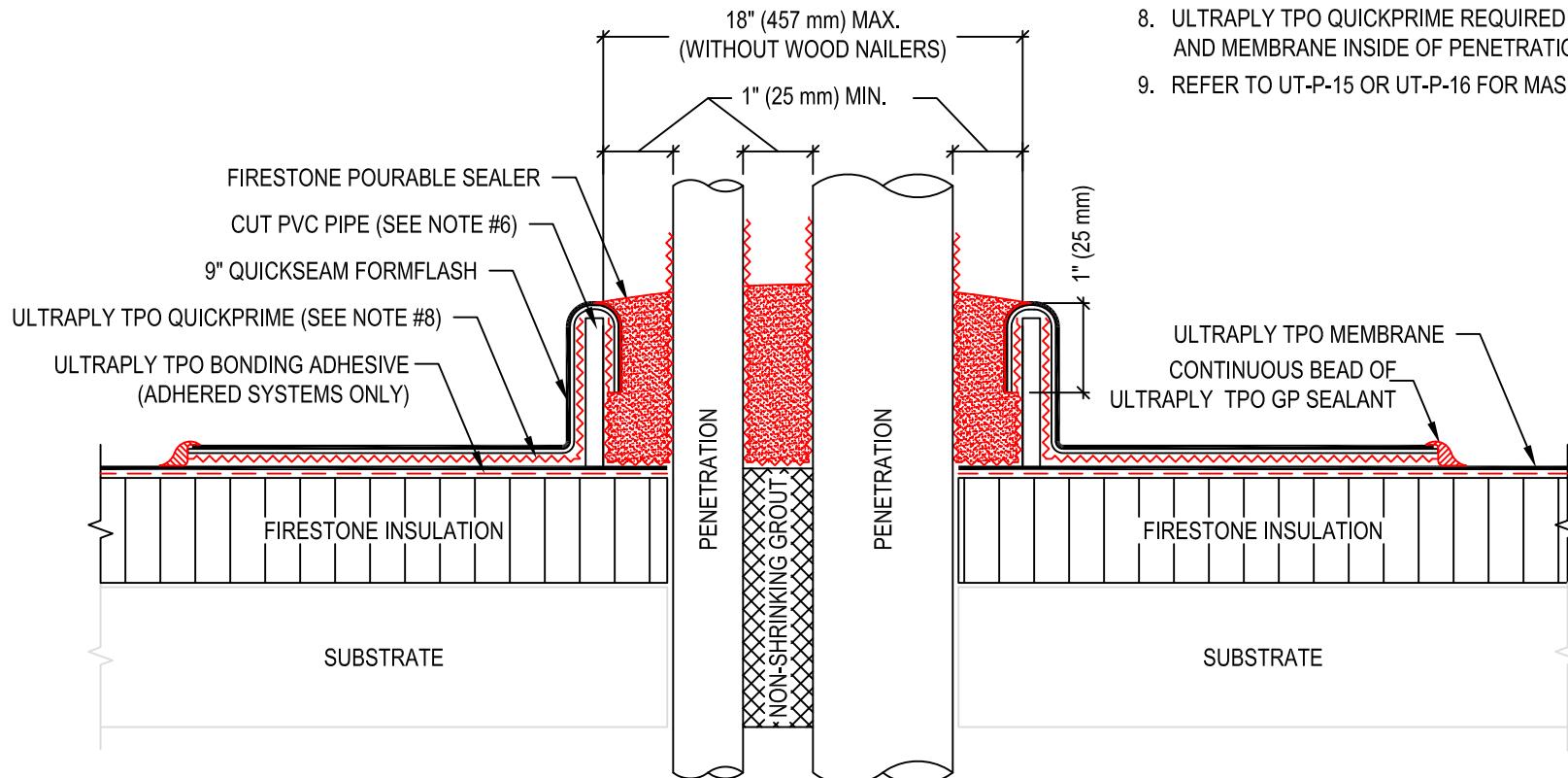
MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	PENETRATION WITH QS6 PENETRATION POCKET	
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 7/22/2014 NOT TO SCALE

DETAIL NO.
UT-P-9

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 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 & UT-P-7.
6. CUT PVC PIPE MINIMUM 2" (50 mm) HIGH AND OF SUFFICIENT WIDTH TO ALLOW 1" (25 mm) OF SPACE BETWEEN PENETRATIONS AND BETWEEN THE PVC SHELL AND PENETRATIONS. MEMBRANE MUST EXTEND TO WITHIN 1/2" (13 mm) OF PENETRATIONS.
7. IF FIELD MEMBRANE IS CUT FOR INSULATION, THE MEMBRANE MUST BE REPAIRED WITH TPO MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKETS.
8. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATIONS.
9. REFER TO UT-P-15 OR UT-P-16 FOR MAS.



MAXIMUM WARRANTY: **15 YEARS**

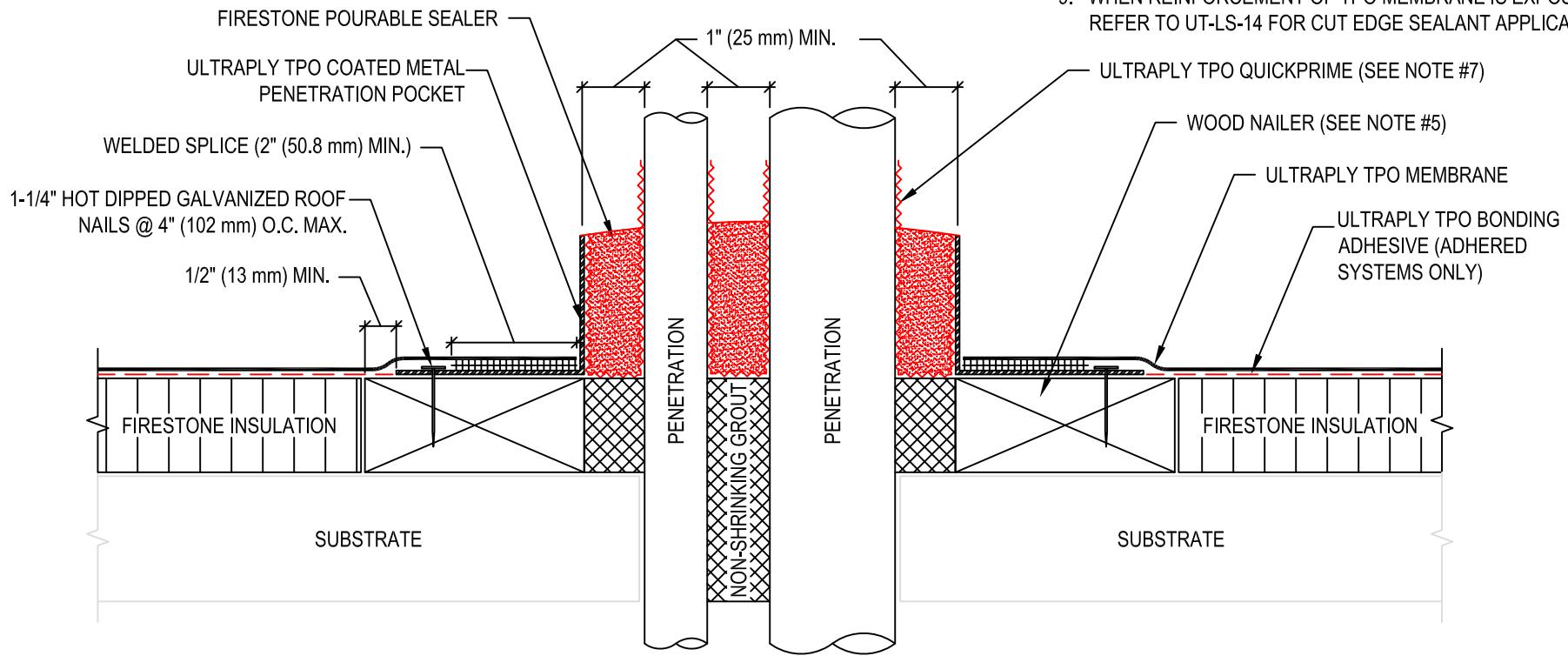
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	PENETRATION WITH FIELD FABRICATED ROUND PVC PENETRATION POCKET	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE: 7/22/2014
NOT TO SCALE

DETAIL NO.
UT-P-10

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 mm)), REMAINDER OF POCKET MAY BE FILLED WITH A NON-SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAL FOOT IN ANY GIVEN DIRECTION
6. DO NOT USE WHEN SERVICE TEMP EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
7. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND INSIDE OF PENETRATION POCKET..
8. REFER TO UT-P-15 OR UT-P-16 FOR MAS.
9. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

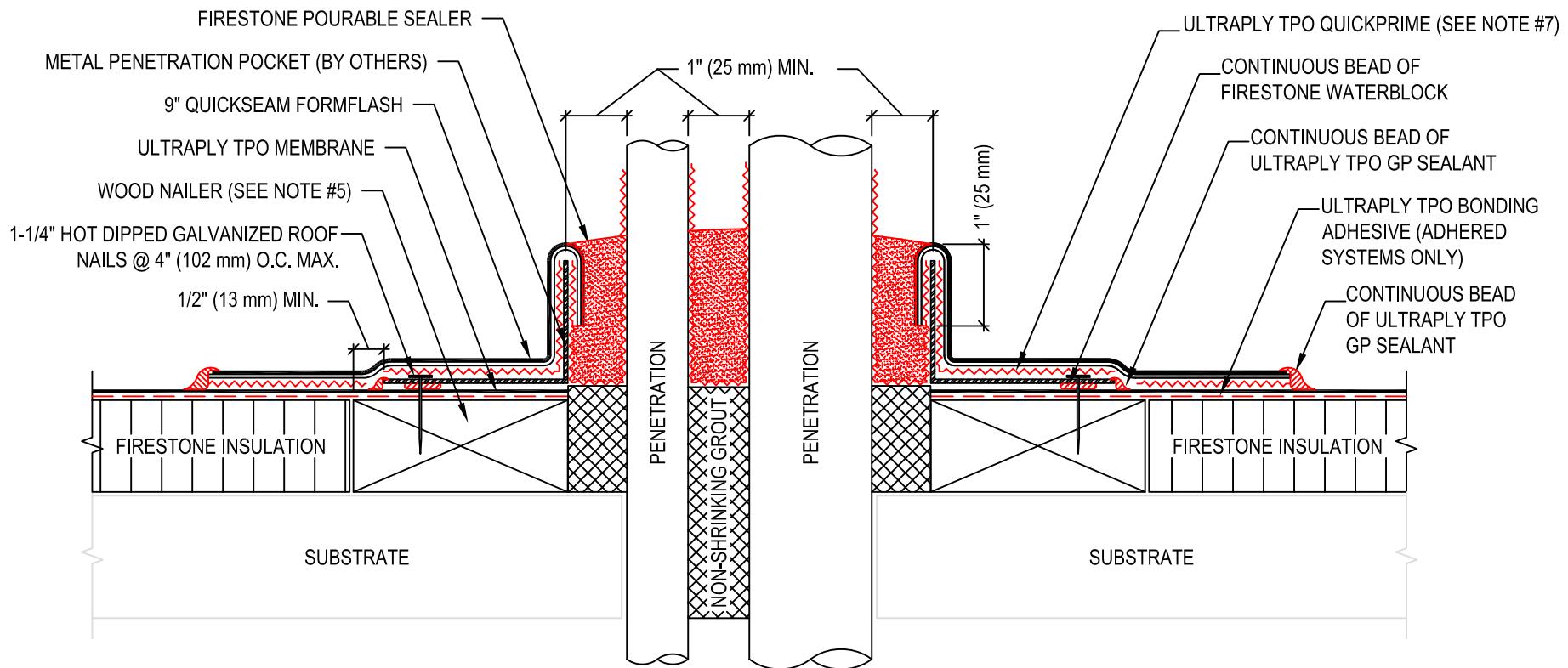


MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	PENETRATION WITH ULTRAPLY TPO COATED METAL PENETRATION POCKET TO NAILER		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-P-11
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

NOTES:

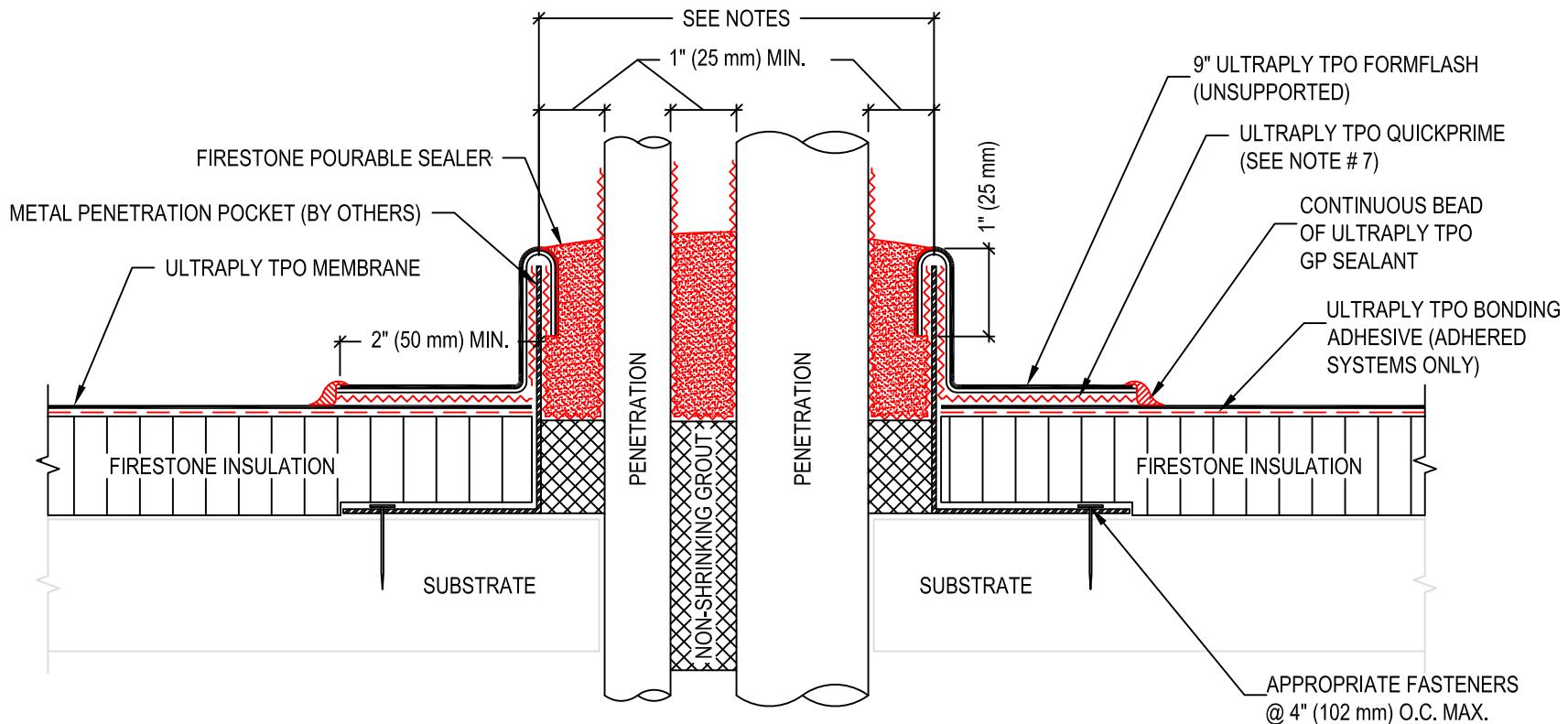
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 mm)), REMAINDER OF POCKET MAY BE FILLED WITH A NON-SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAL FOOT IN ANY GIVEN DIRECTION
6. DO NOT USE WHEN SERVICE TEMP EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
7. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND INSIDE OF PENETRATION POCKET..



MAXIMUM WARRANTY: **15 YEARS**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 mm)), REMAINDER OF POCKET MAY BE FILLED WITH A NON-SHRINKING GROUT.
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18" (457 mm) ADDITIONAL FIELD MEMBRANE SECUREMENT REQUIRED, REFER TO APPROPRIATE BASE TIE-IN DETAILS.
6. DO NOT USE WHEN SERVICE TEMP EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
7. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND INSIDE OF PENETRATION POCKET..
8. REFER TO UT-P-15 OR UT-P-16 FOR MAS.

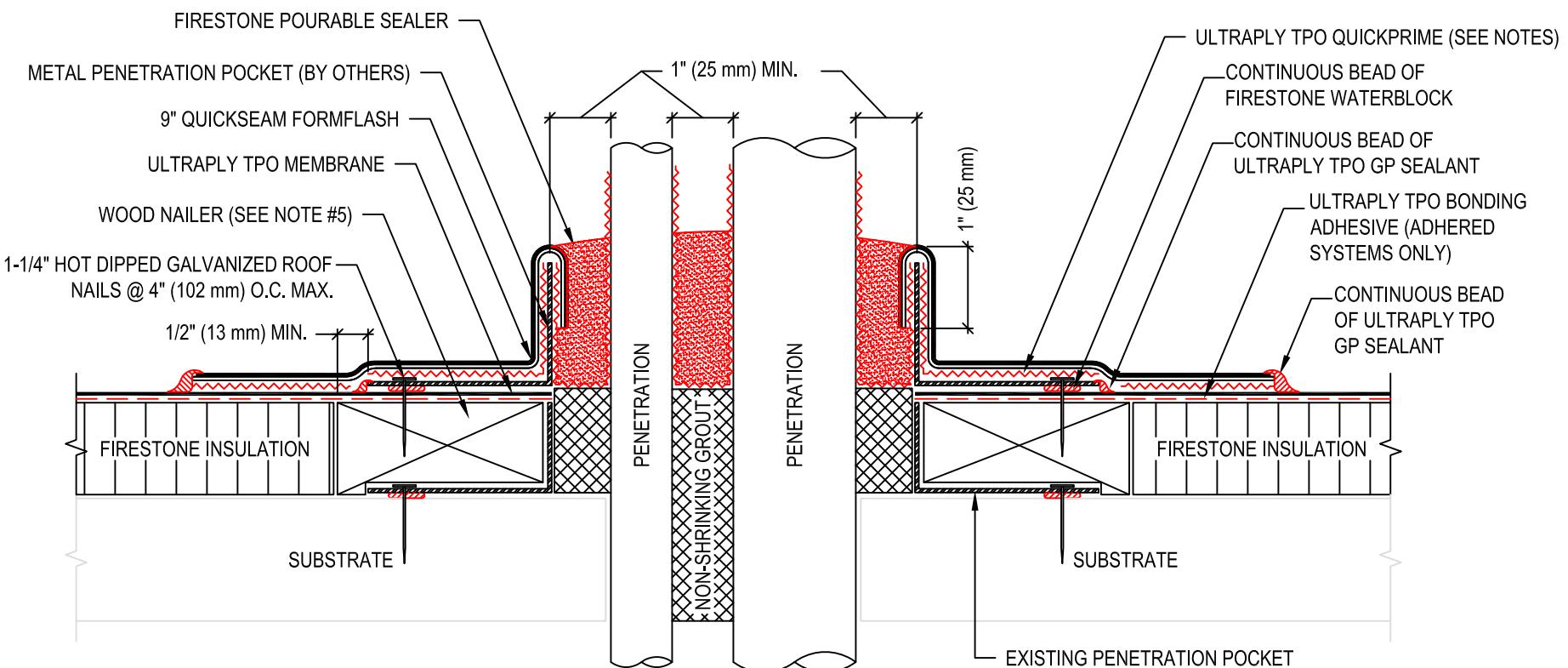


MAXIMUM WARRANTY: **15 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	PENETRATION WITH METAL PENETRATION POCKET TO DECK	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-P-13
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. FIRESTONE POURABLE SEALER MOUNTED TO SHED WATER (MINIMUM DEPTH OF 2" (51 mm), REMAINDER OF POCKET MAY BE FILLED WITH A NON-SHRINKING GROUT).
4. DO NOT USE OVER EXISTING PENETRATION POCKETS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAL FOOT IN ANY GIVEN DIRECTION
6. DO NOT USE WHEN SERVICE TEMP EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
7. ULTRAPLY TPO QUICKPRIME REQUIRED ON PENETRATIONS AND INSIDE OF PENETRATION POCKET..



MAXIMUM WARRANTY: **15 YEARS**

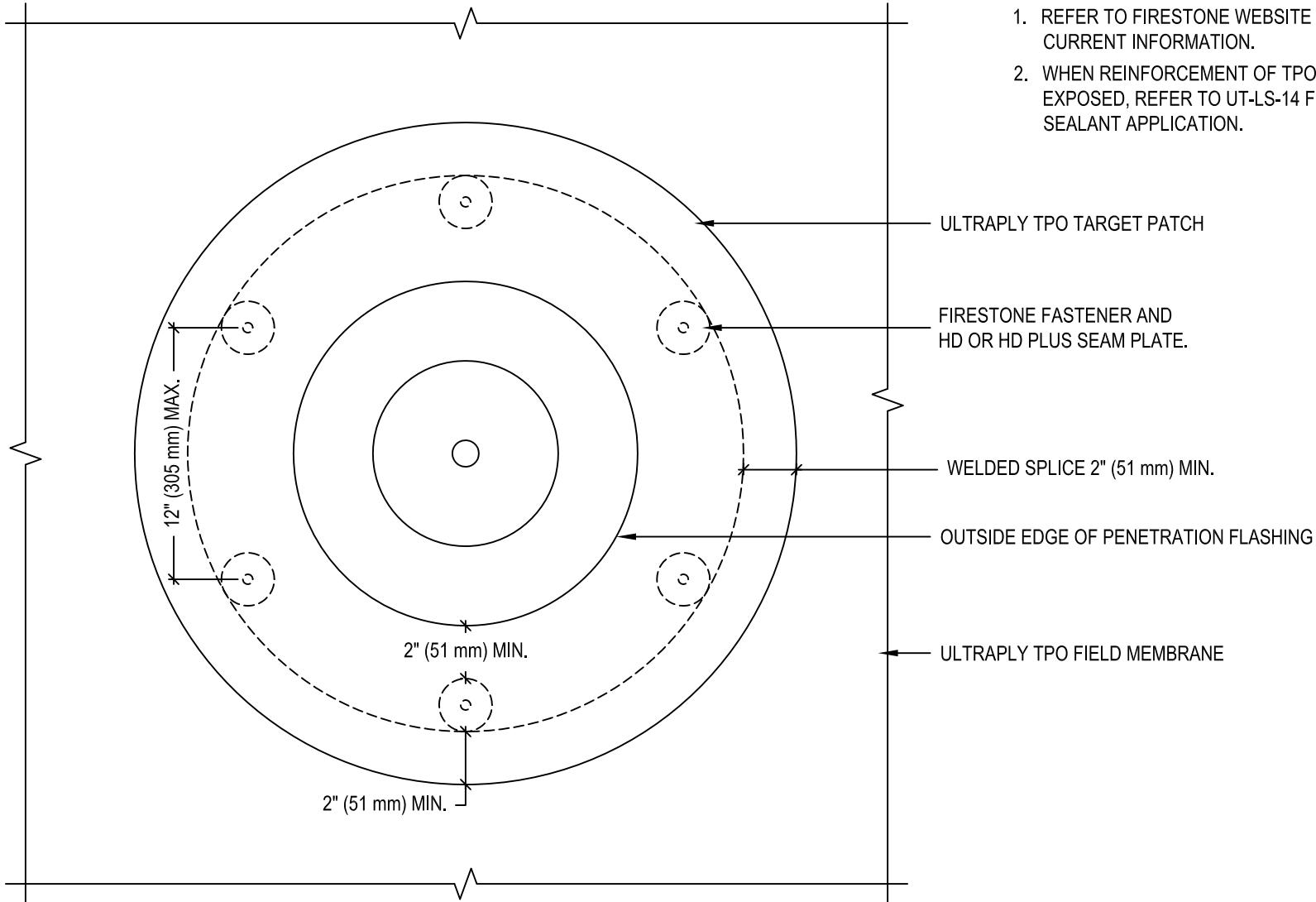
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	PENETRATION WITH METAL PENETRATION POCKET TO NAILER FOR RECOVER OR REROOF	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE: 7/22/2014
NOT TO SCALE

DETAIL NO.
UT-P-14

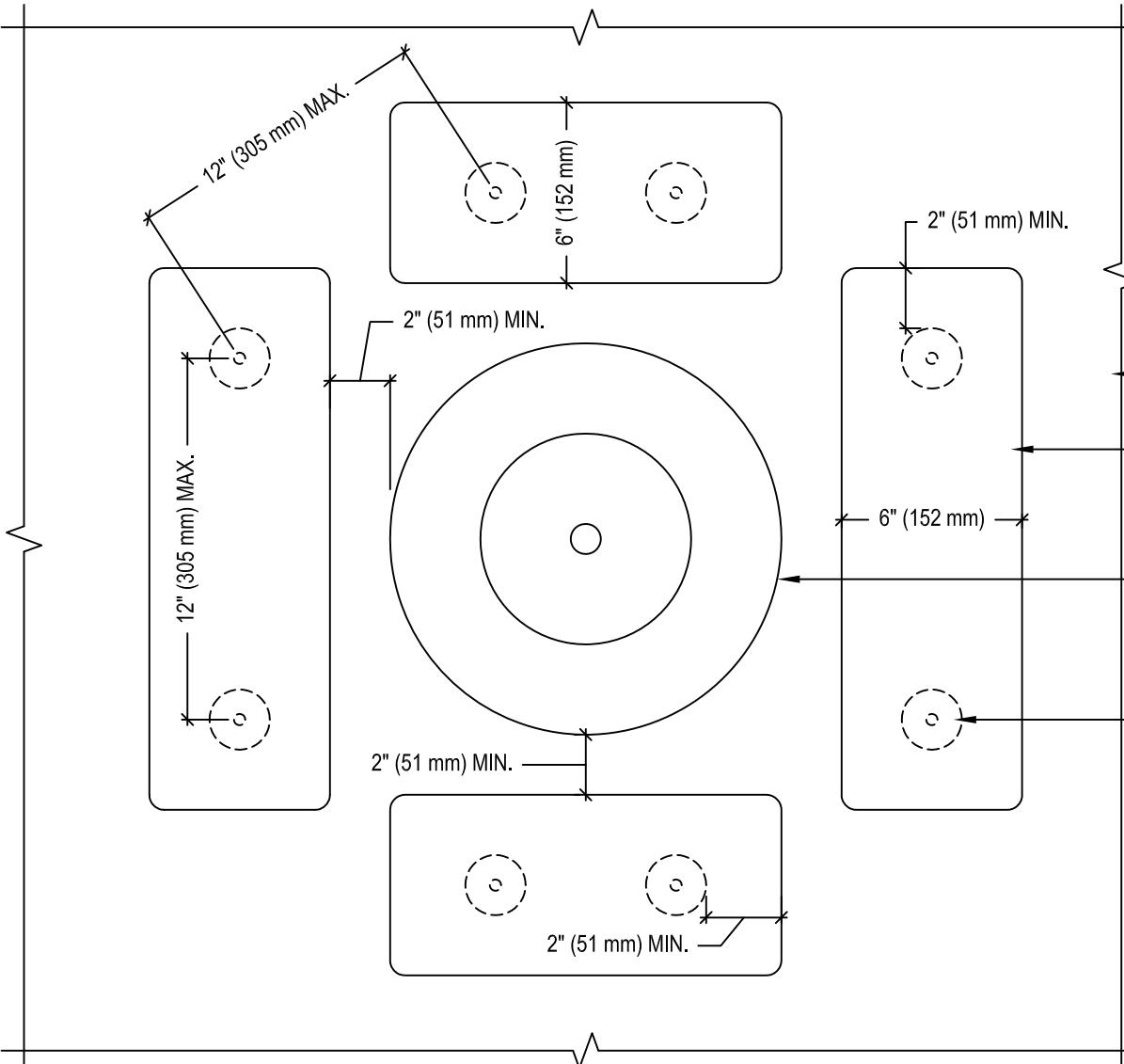
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	MEMBRANE SECUREMENT AT PENETRATION WITH HD SEAM PLATES & TARGET PATCH	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-P-15
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: MAS ONLY	NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. BATTEN STRIP MAY BE USED IN LIEU OF HD SEAM PLATES.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

ULTRAPLY TPO FIELD MEMBRANE

6" WIDE ULTRAPLY TPO MEMBRANE COVER STRIPS WELDED TO ULTRAPLY TPO FIELD MEMBRANE (TYP.) (SEE NOTE #2 & #4).

OUTSIDE EDGE OF PENETRATION FLASHING

FIRESTONE FASTENER PLATE AND HD OR HD PLUS SEAM PLATE (SEE NOTE #3)

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

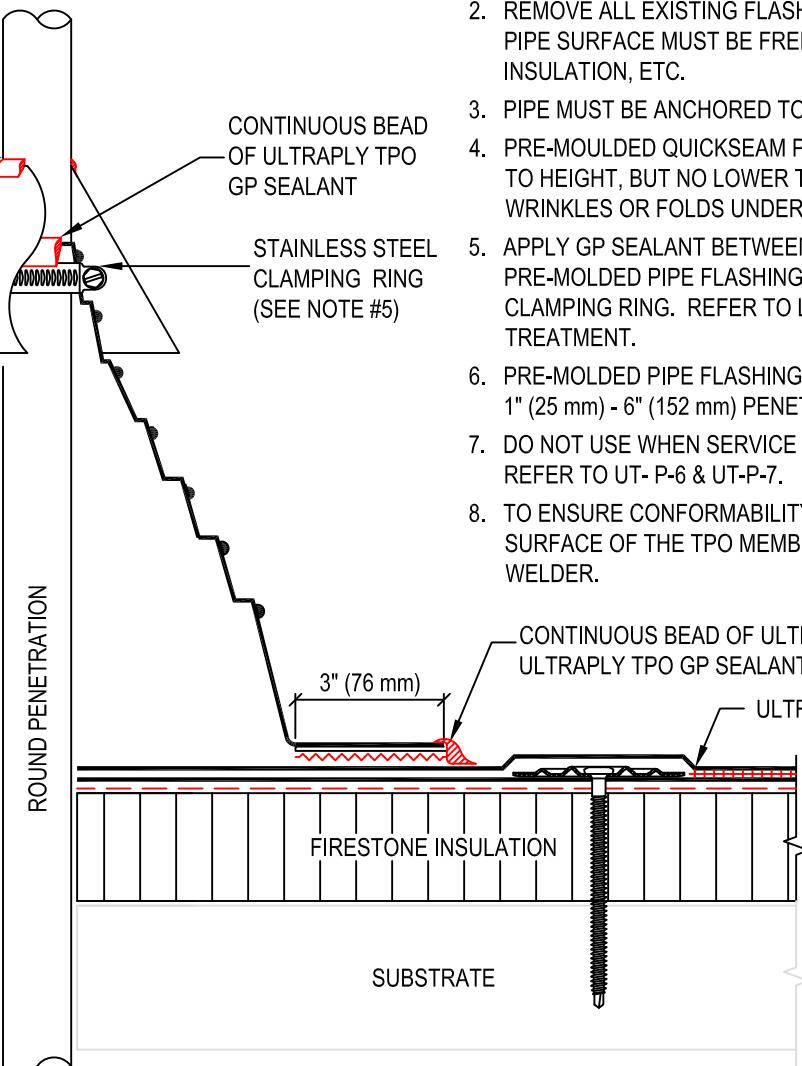
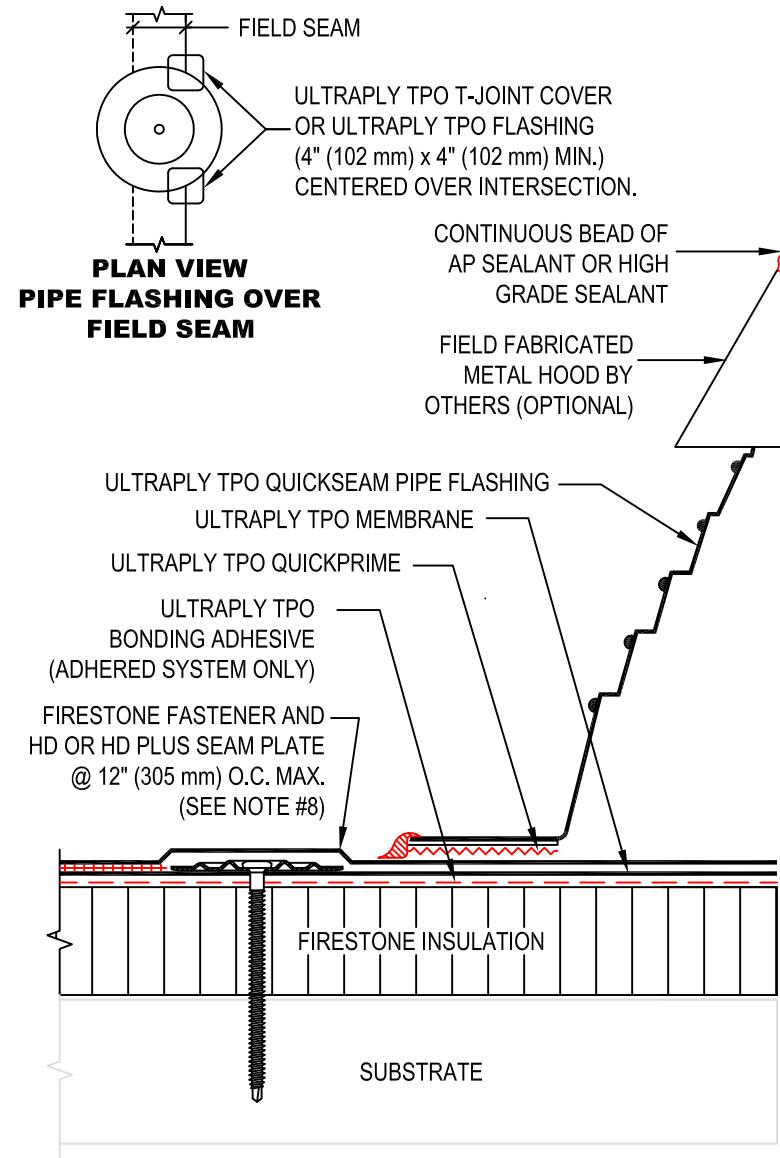
**MEMBRANE SECUREMENT AT PENETRATION
WITH HD SEAM PLATES & COVER STRIPS**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: MAS ONLY

ISSUE / REVISION
DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-P-16



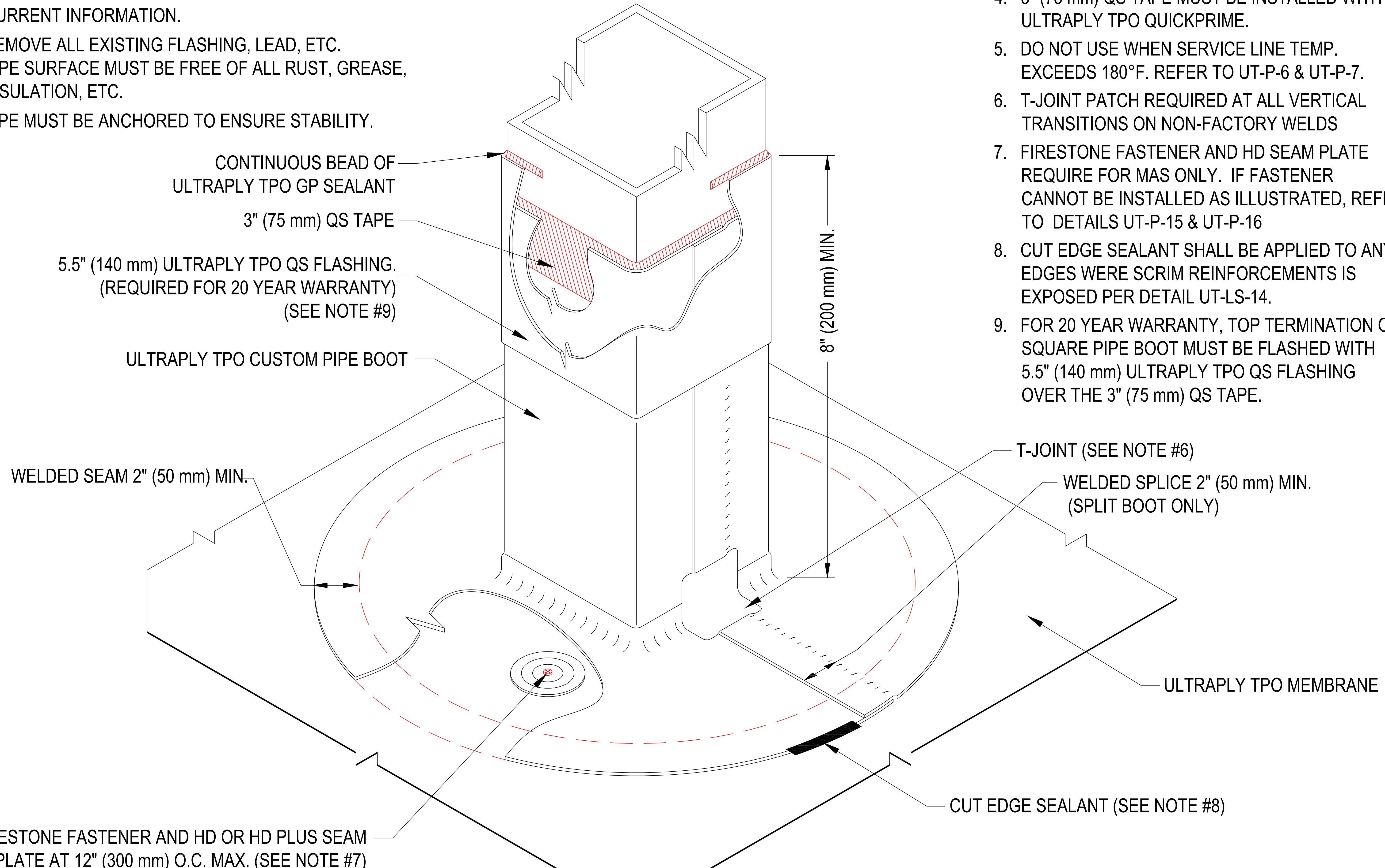
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. PRE-MOULDED QUICKSEAM 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. REFER TO LS-9 FOR SEAM EDGE TREATMENT.
6. PRE-MOLDED PIPE FLASHING FITS 1" (25 mm) - 6" (152 mm) PENETRATIONS SIZES.
7. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT-P-6 & UT-P-7.
8. TO ENSURE CONFORMABILITY, SLIGHTLY HEATING THE SURFACE OF THE TPO MEMBRANE USING A HOT AIR WELDER.

MAXIMUM WARRANTY: **20 YEARS**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.



NOTES

4. 3" (75 mm) QS TAPE MUST BE INSTALLED WITH ULTRAPLY TPO QUICKPRIME.
5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180°F. REFER TO UT-P-6 & UT-P-7.
6. T-JOINT PATCH REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16
8. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENTS IS EXPOSED PER DETAIL UT-LS-14.
9. FOR 20 YEAR WARRANTY, TOP TERMINATION OF SQUARE PIPE BOOT MUST BE FLASHED WITH 5.5" (140 mm) ULTRAPLY TPO QS FLASHING OVER THE 3" (75 mm) QS TAPE.

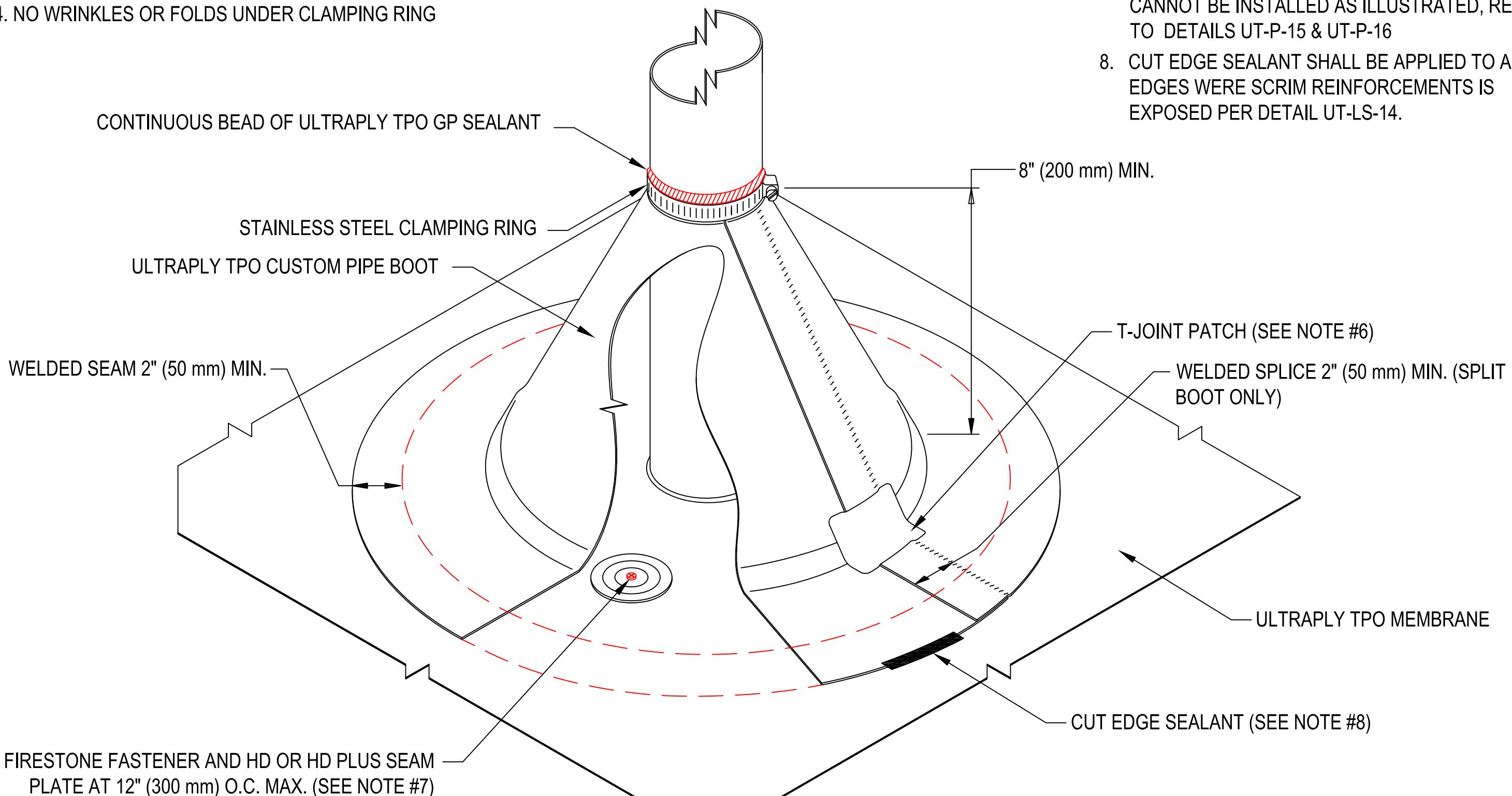
MAXIMUM WARRANTY: **20 YEARS**

NOTES:

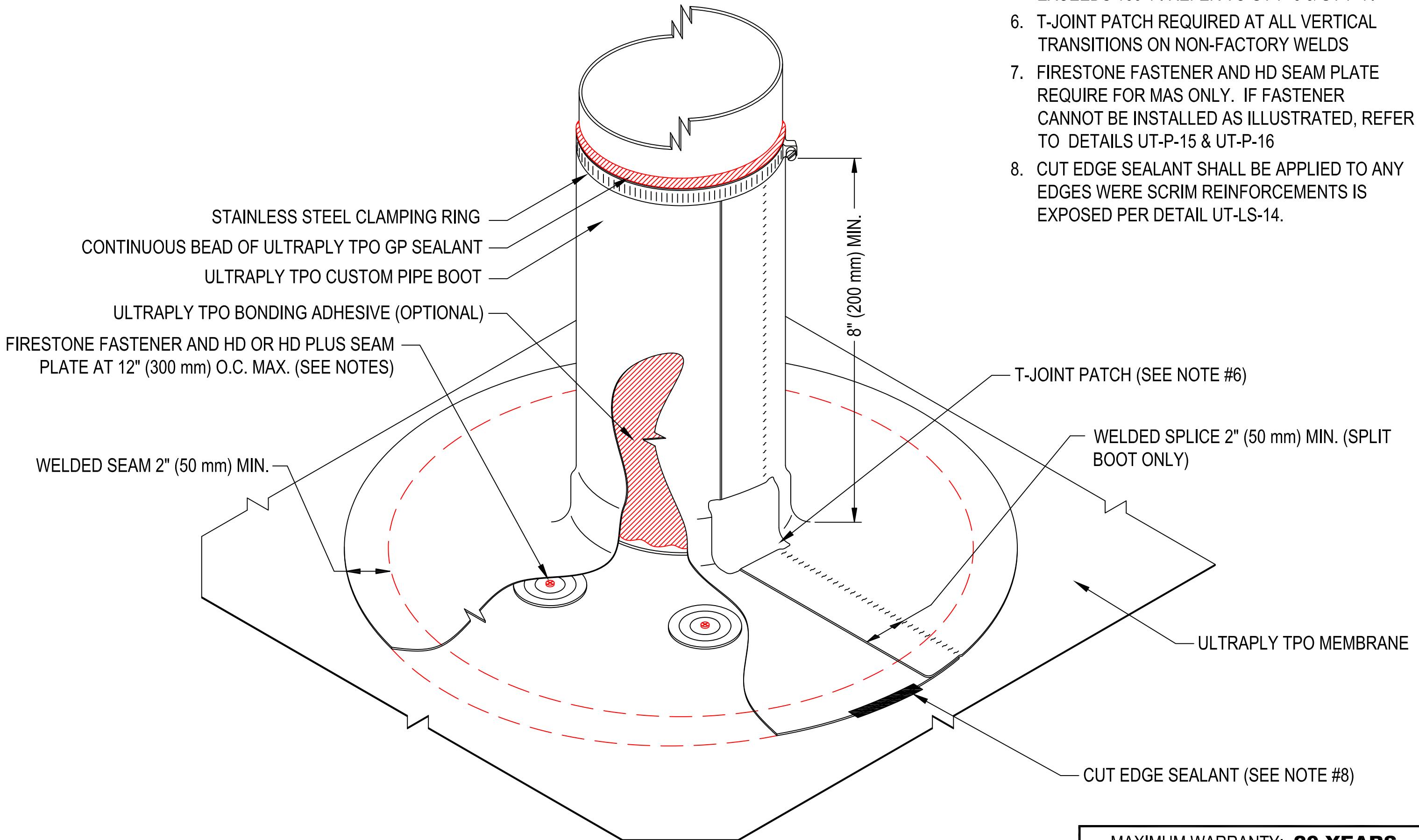
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. NO WRINKLES OR FOLDS UNDER CLAMPING RING

NOTES

5. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 160°F. REFER TO UT-P-6 & UT-P-7.
6. T-JOINT PATCH REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16
8. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENTS IS EXPOSED PER DETAIL UT-LS-14.

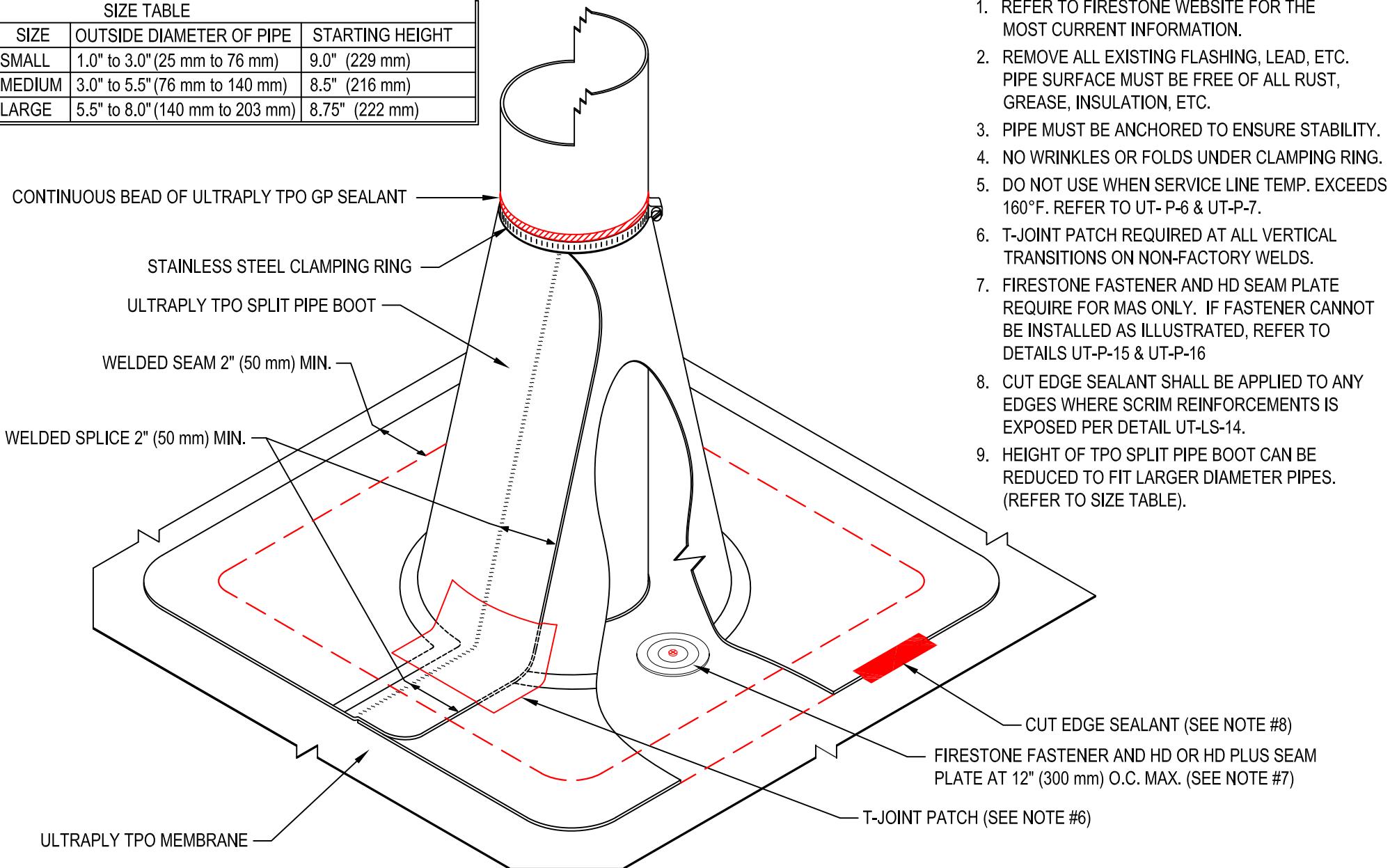


MAXIMUM WARRANTY: **20 YEARS**



MAXIMUM WARRANTY: **20 YEARS**

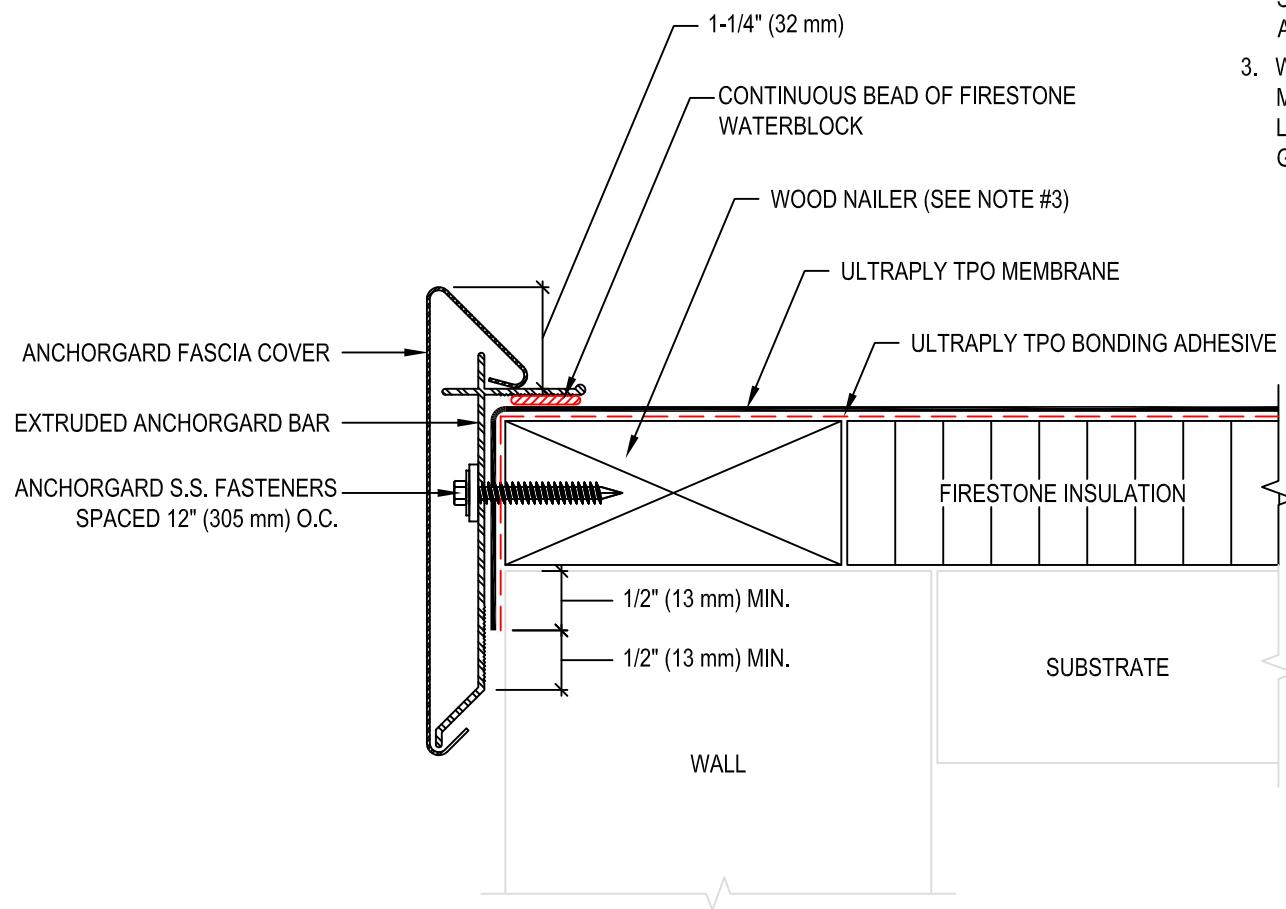
SIZE TABLE		
SIZE	OUTSIDE DIAMETER OF PIPE	STARTING HEIGHT
SMALL	1.0" to 3.0" (25 mm to 76 mm)	9.0" (229 mm)
MEDIUM	3.0" to 5.5" (76 mm to 140 mm)	8.5" (216 mm)
LARGE	5.5" to 8.0" (140 mm to 203 mm)	8.75" (222 mm)



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, 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 160°F. REFER TO UT-P-6 & UT-P-7.
6. T-JOINT PATCH REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS.
7. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16
8. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENTS IS EXPOSED PER DETAIL UT-LS-14.
9. HEIGHT OF TPO SPLIT PIPE BOOT CAN BE REDUCED TO FIT LARGER DIAMETER PIPES. (REFER TO SIZE TABLE).

MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpco.com

ROOF EDGE WITH ANCHORGARD STANDARD

ULTRAPLY™ TPO

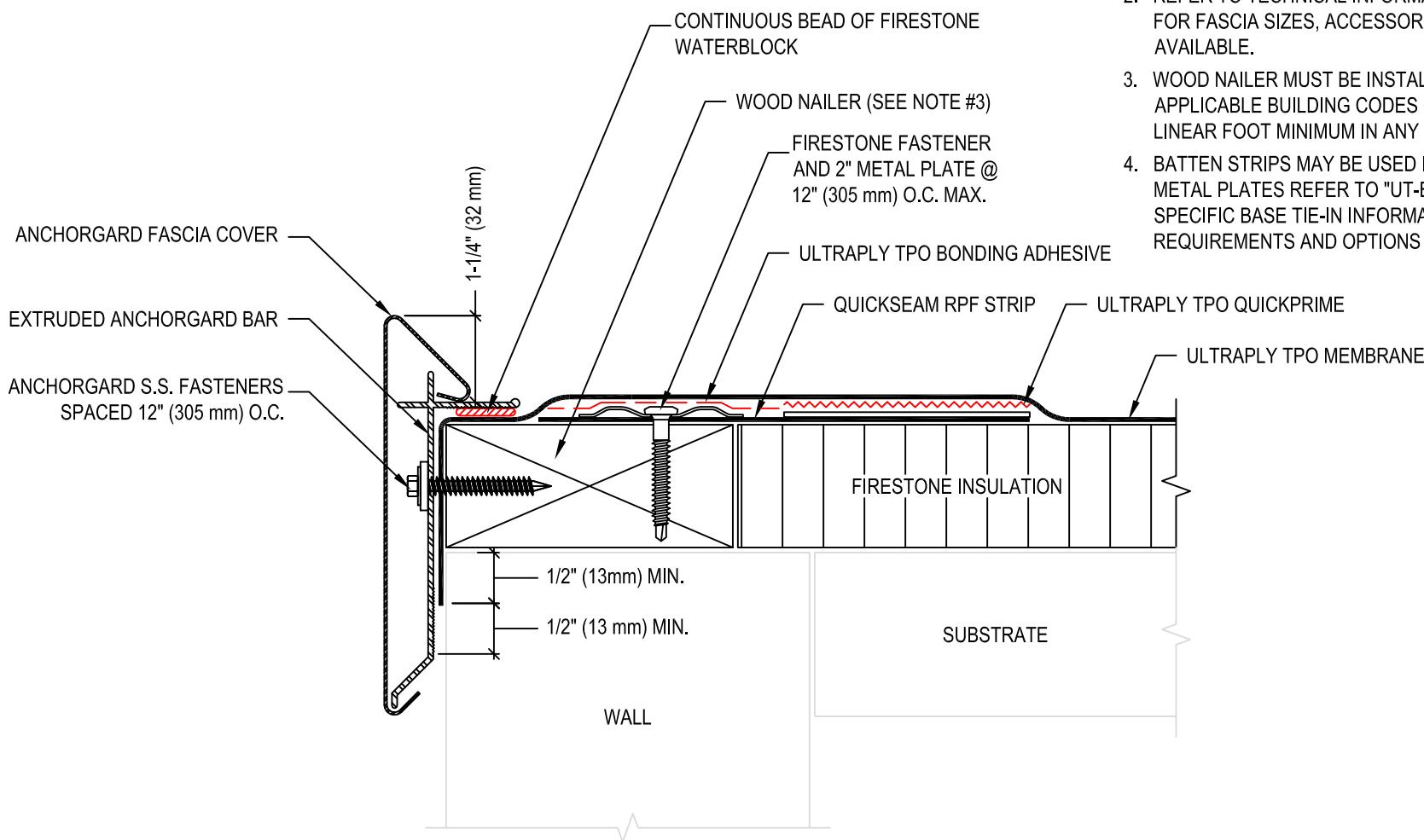
ACCEPTABLE SYSTEMS: ADHERED

MAXIMUM WARRANTY: 20 YEARS

ISSUE / REVISION
DATE:
6/24/2014

NOT TO SCALE

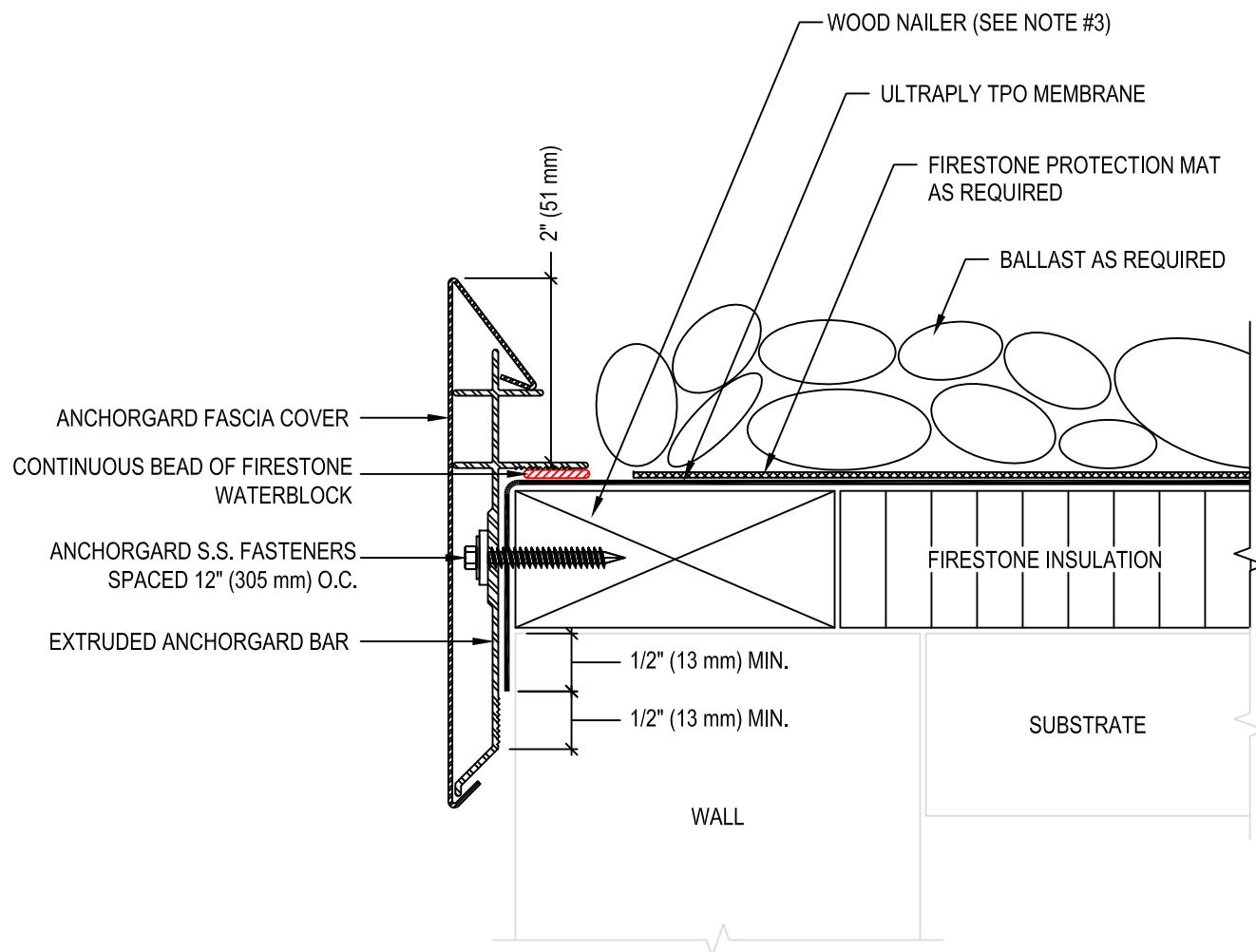
DETAIL NO.
UT-RE-1



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. BATTEN STRIPS MAY BE USED IN LIEU OF 2" METAL PLATES REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ROOF EDGE WITH ANCHORGARD STANDARD AND QUICKSEAM RPF STRIP	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 6/24/2014	DETAIL NO. UT-RE-2
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: MAS	NOT TO SCALE	



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

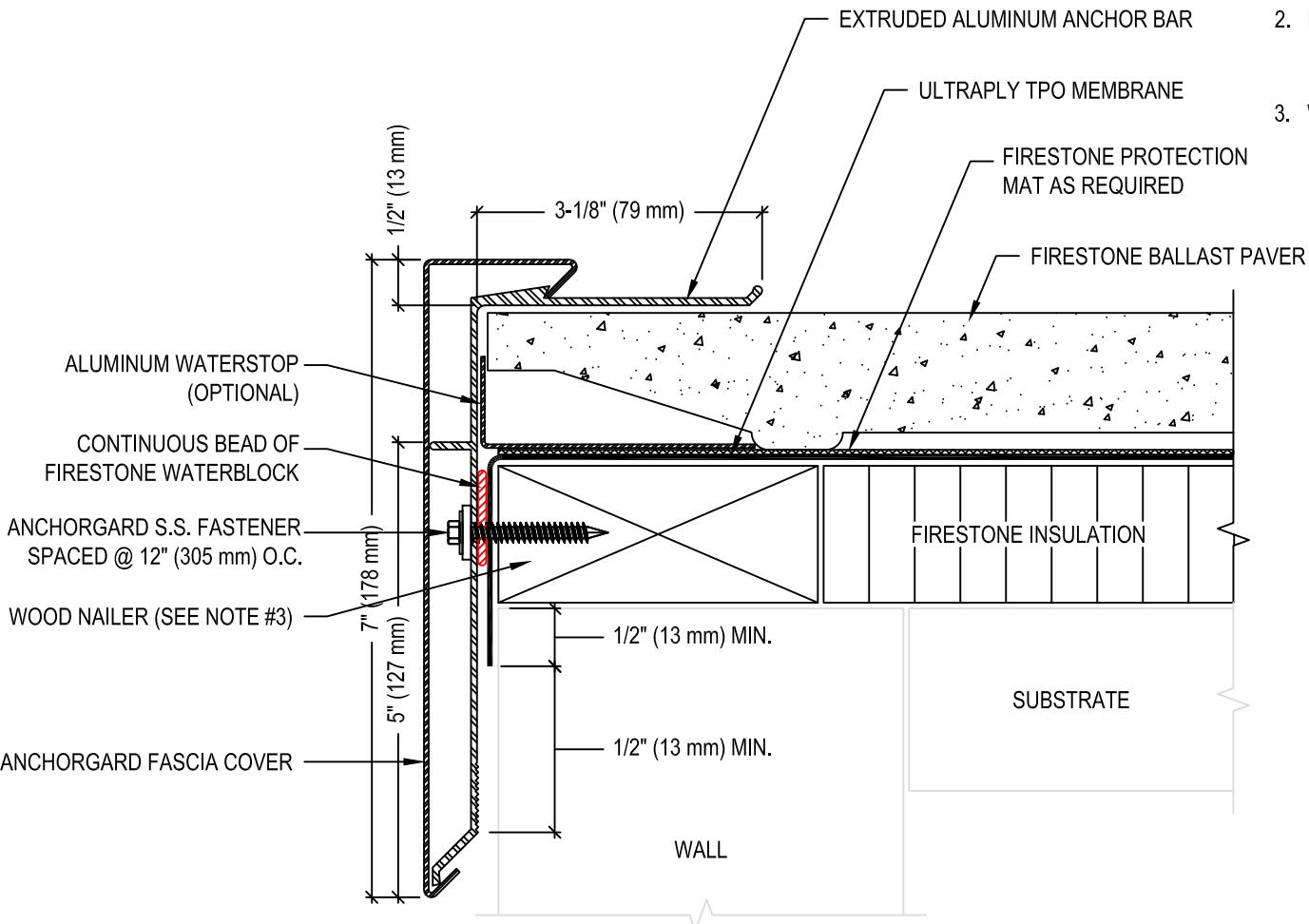
ROOF EDGE WITH ANCHORGARD BALLASTED

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: BALLASTED

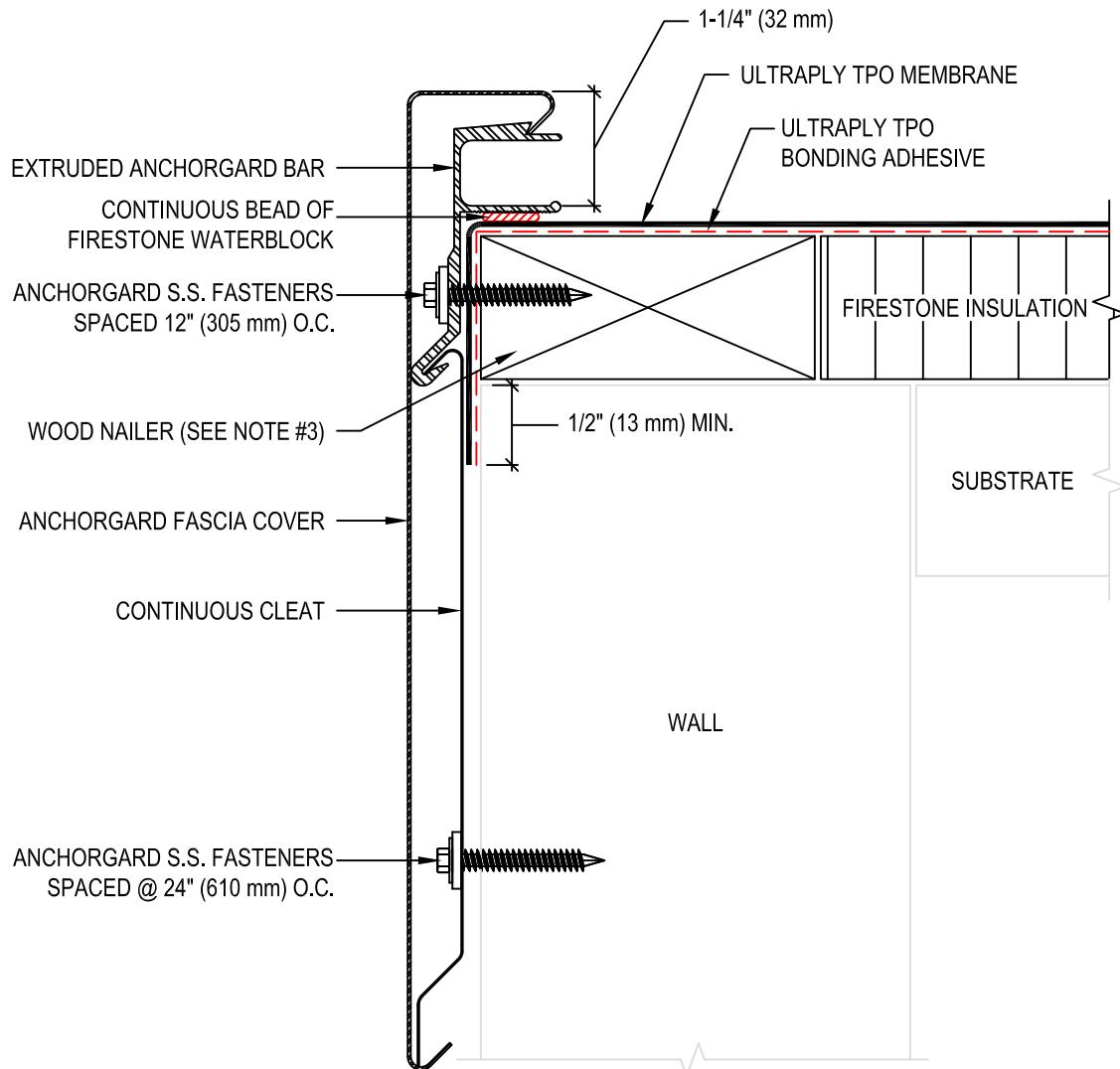
ISSUE / REVISION
DATE:
6/24/2014

MAXIMUM WARRANTY: **20 YEARS**
DETAIL NO.
UT-RE-3
NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.

MAXIMUM WARRANTY: 20 YEARS

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	
---	--

ROOF EDGE WITH ANCHORGARD EXTENDED FACE

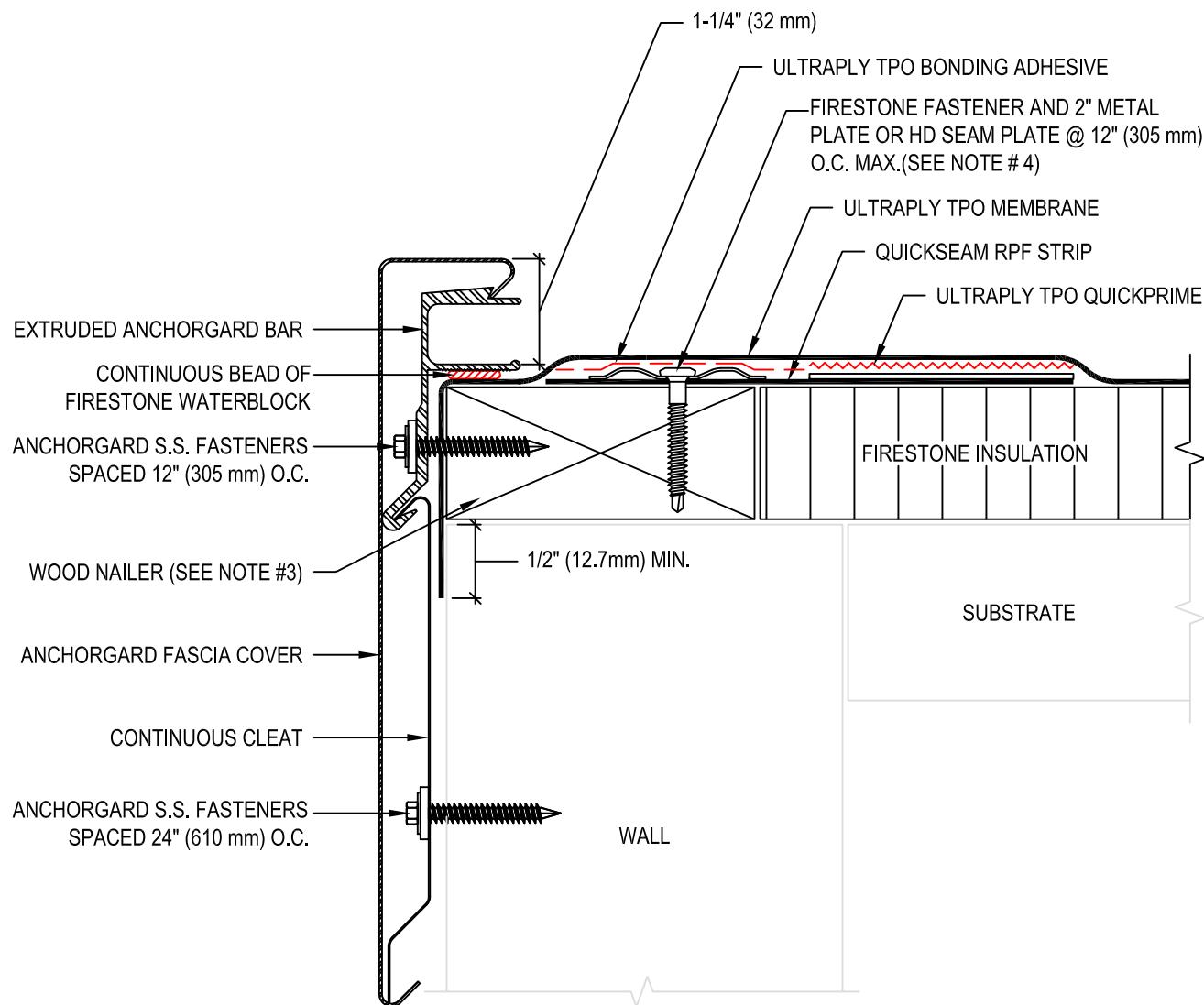
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ADHERED

ISSUE / REVISION
DATE:
6/24/2014

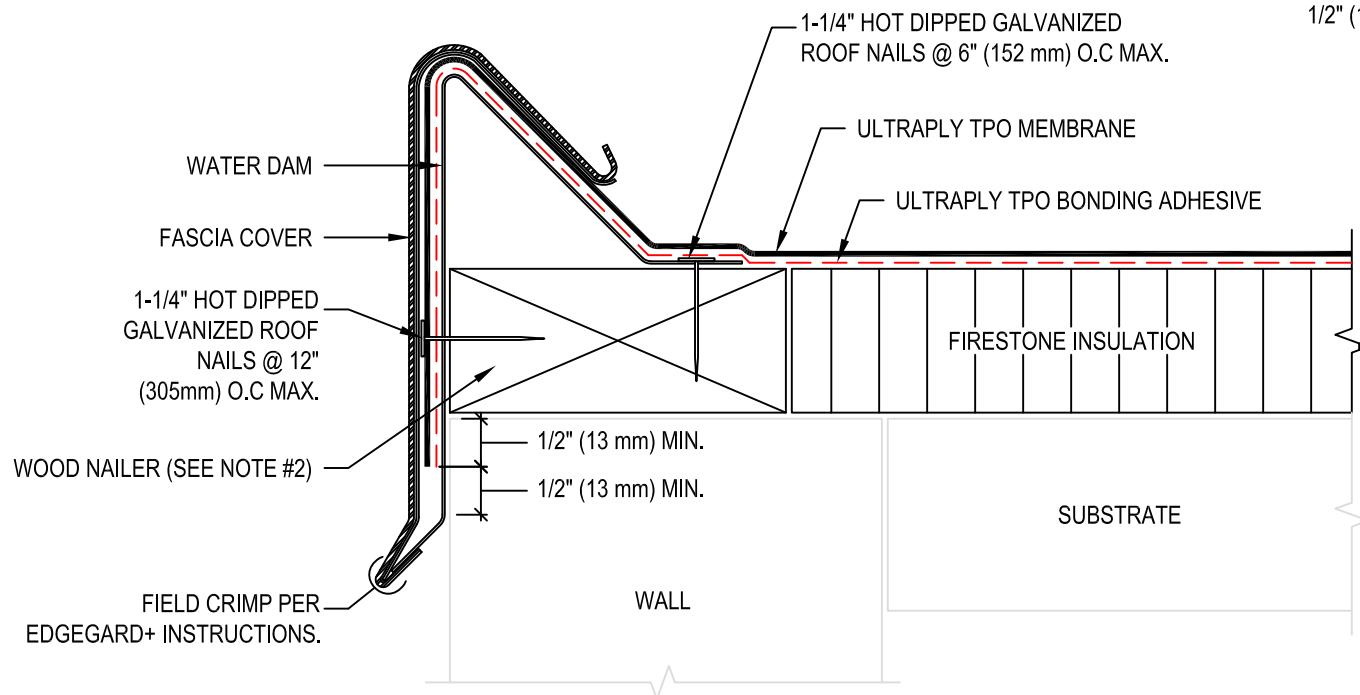
NOT TO SCALE

DETAIL NO.
UT-RE-5



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. BATTEN STRIPS MAY BE USED IN LIEU OF 2" METAL PLATES REFER TO "UT-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS AND OPTIONS.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.

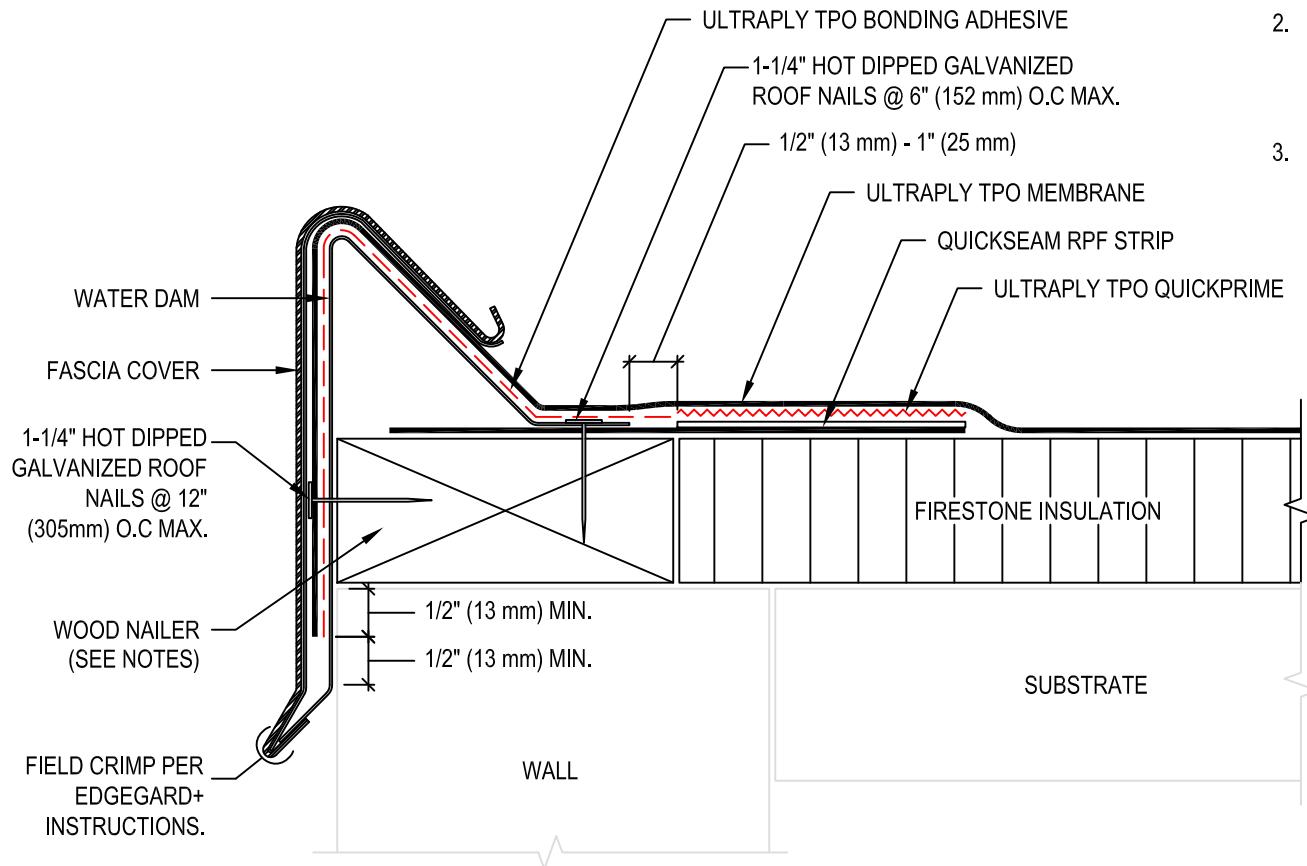
MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE WITH FIRESTONE EDGE GARD +	
	ULTRALITE™ TPO	ACCEPTABLE SYSTEMS: ADHERED

ISSUE / REVISION
DATE:
6/24/2014

NOT TO SCALE

DETAIL NO.
UT-RE-7

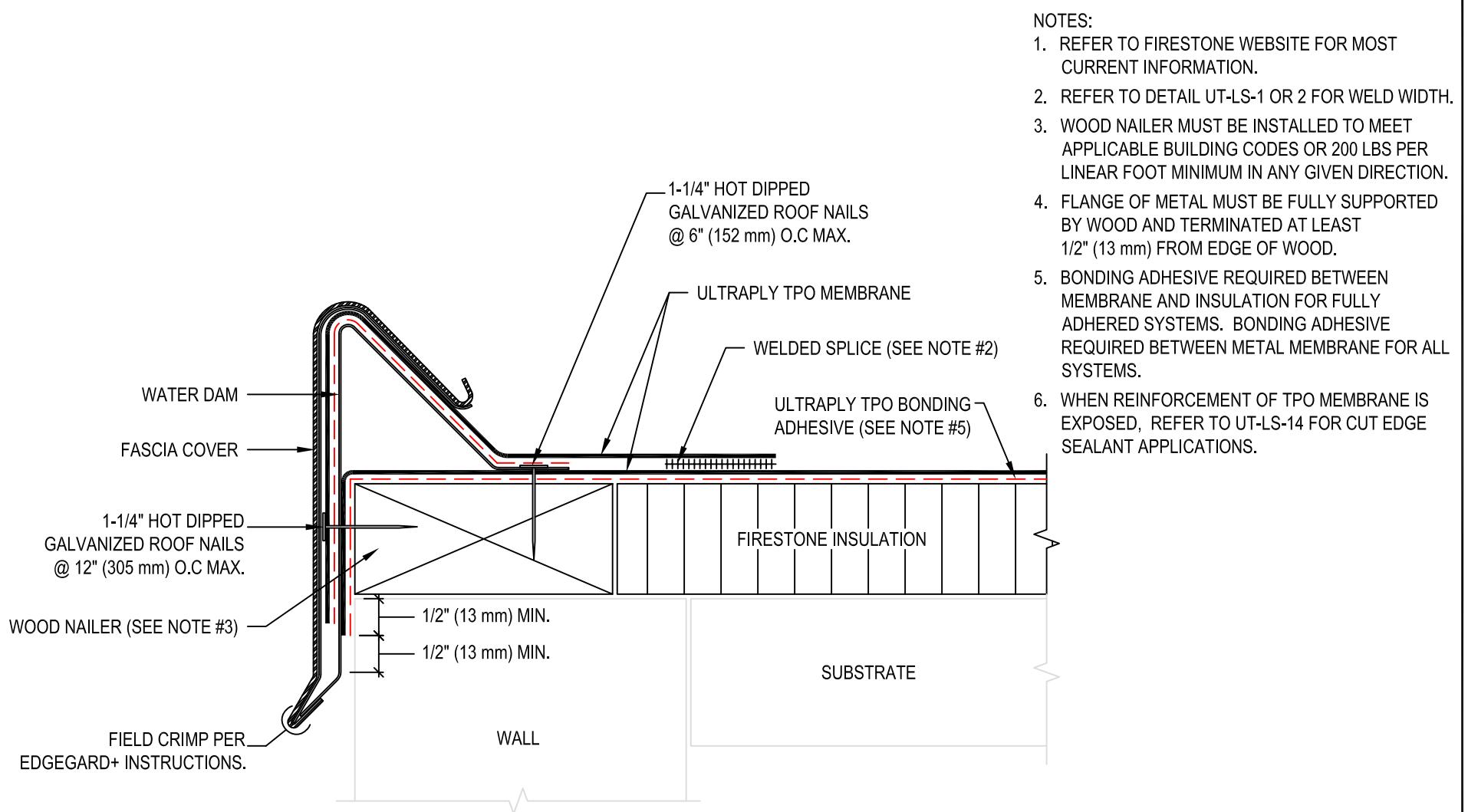


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 12" (305 mm) FROM EDGE OF WOOD.

MAXIMUM WARRANTY: **20 YEARS**

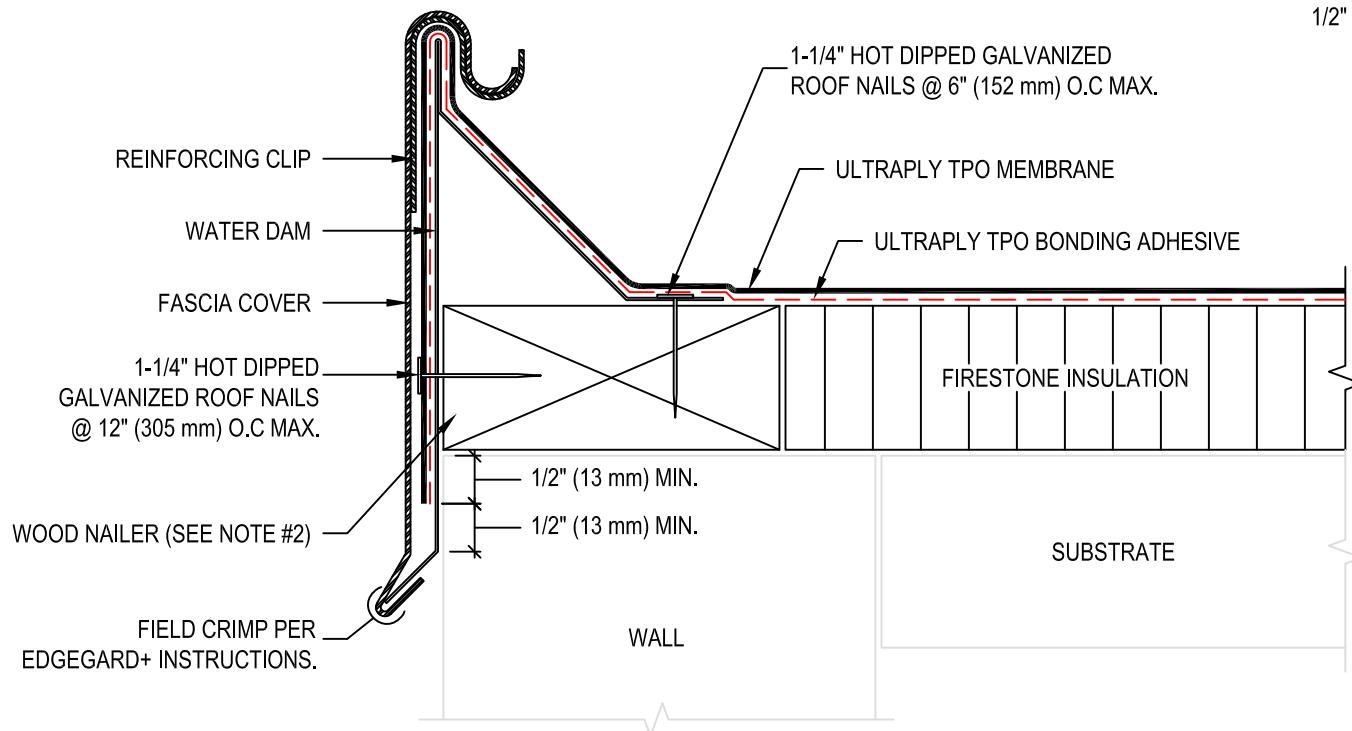
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE WITH FIRESTONE EDGE GARD + AND QUICKSEAM RPF STRIP	ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-8
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: MAS, BALLASTED	NOT TO SCALE



Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE WITH FIRESTONE EDGE GARD +		MAXIMUM WARRANTY: 20 YEARS	
	ULTRALITE™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-9

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.



MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpco.com

ROOF EDGE WITH FIRESTONE EDGEGARD

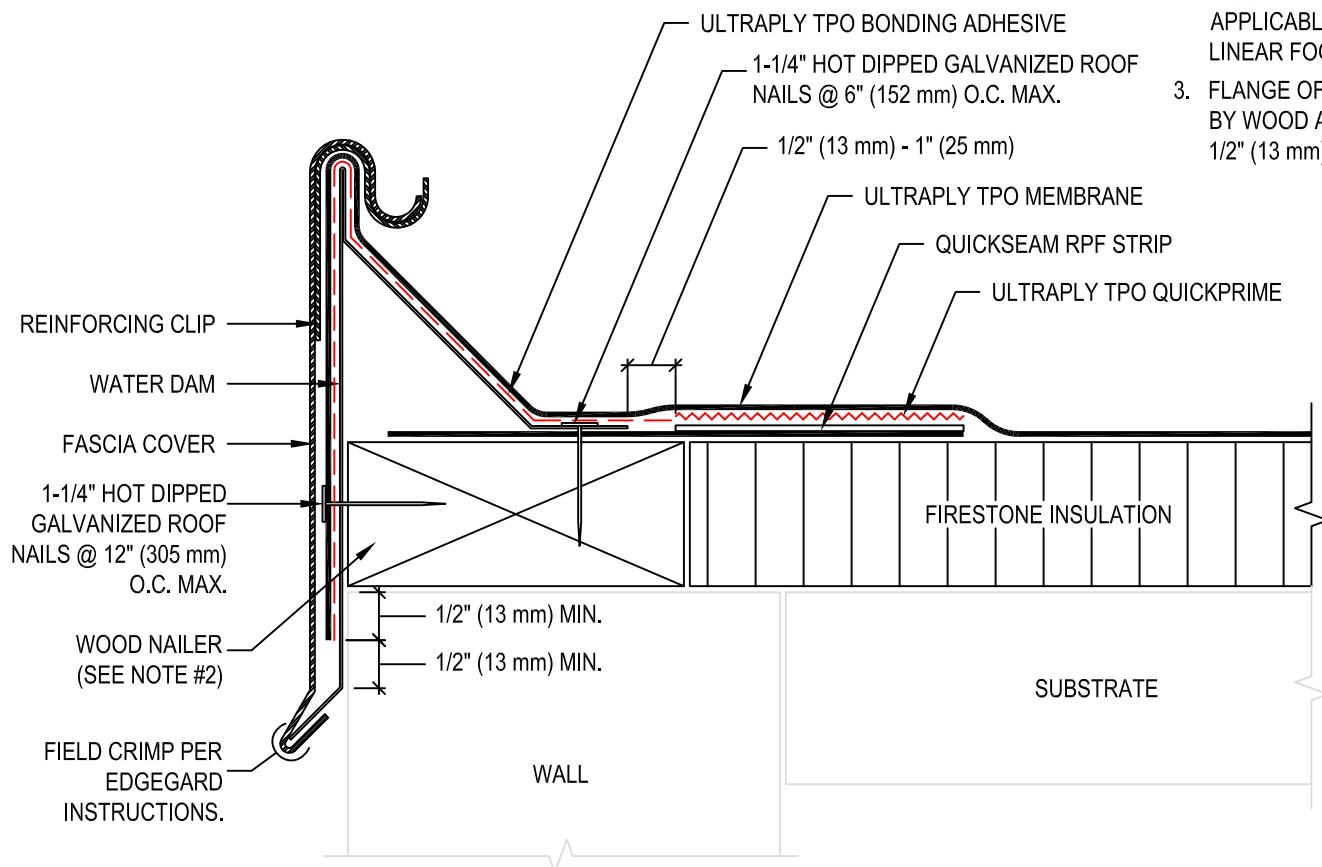
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ADHERED

ISSUE / REVISION
DATE:
6/25/2014

NOT TO SCALE

DETAIL NO.
UT-RE-10



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

**ROOF EDGE WITH FIRESTONE EDGEGARD AND
QUICKSEAM RPF STRIP**

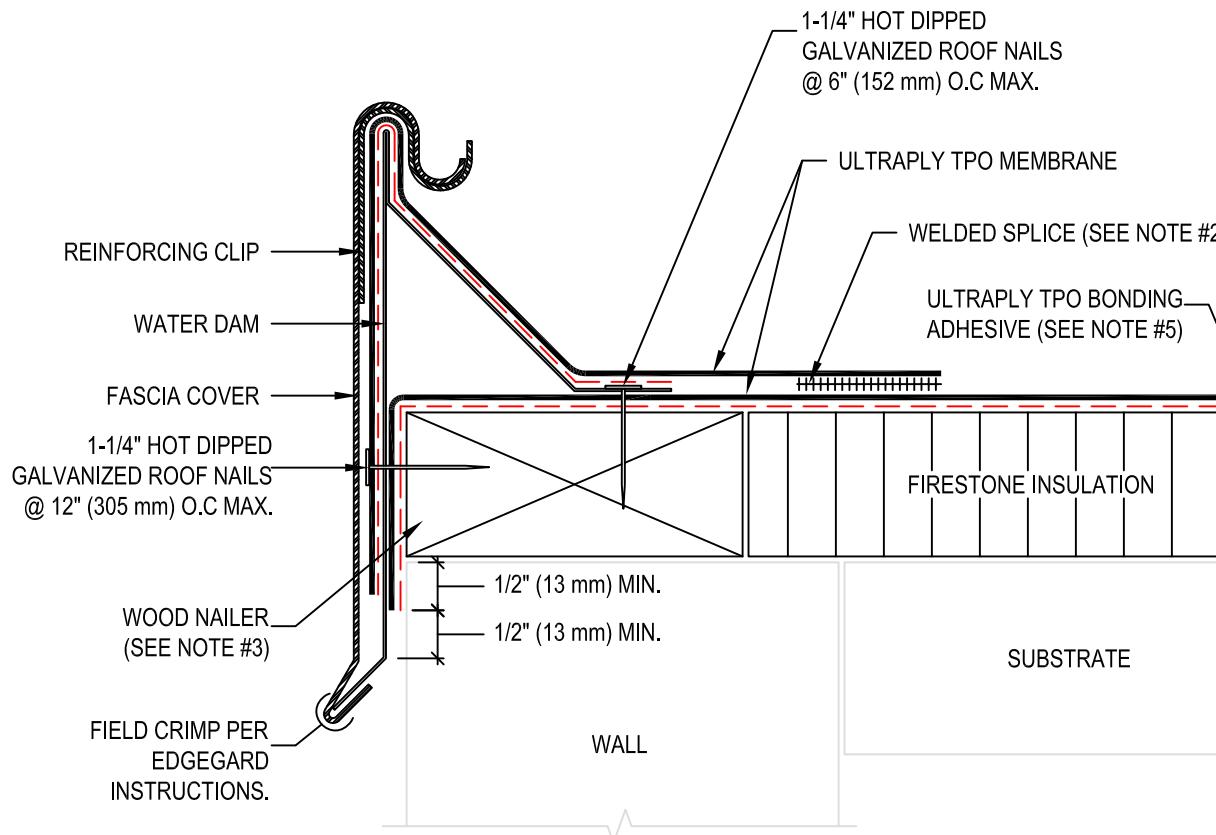
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: MAS, BALLASTED

ISSUE / REVISION
DATE:
6/25/2014
NOT TO SCALE

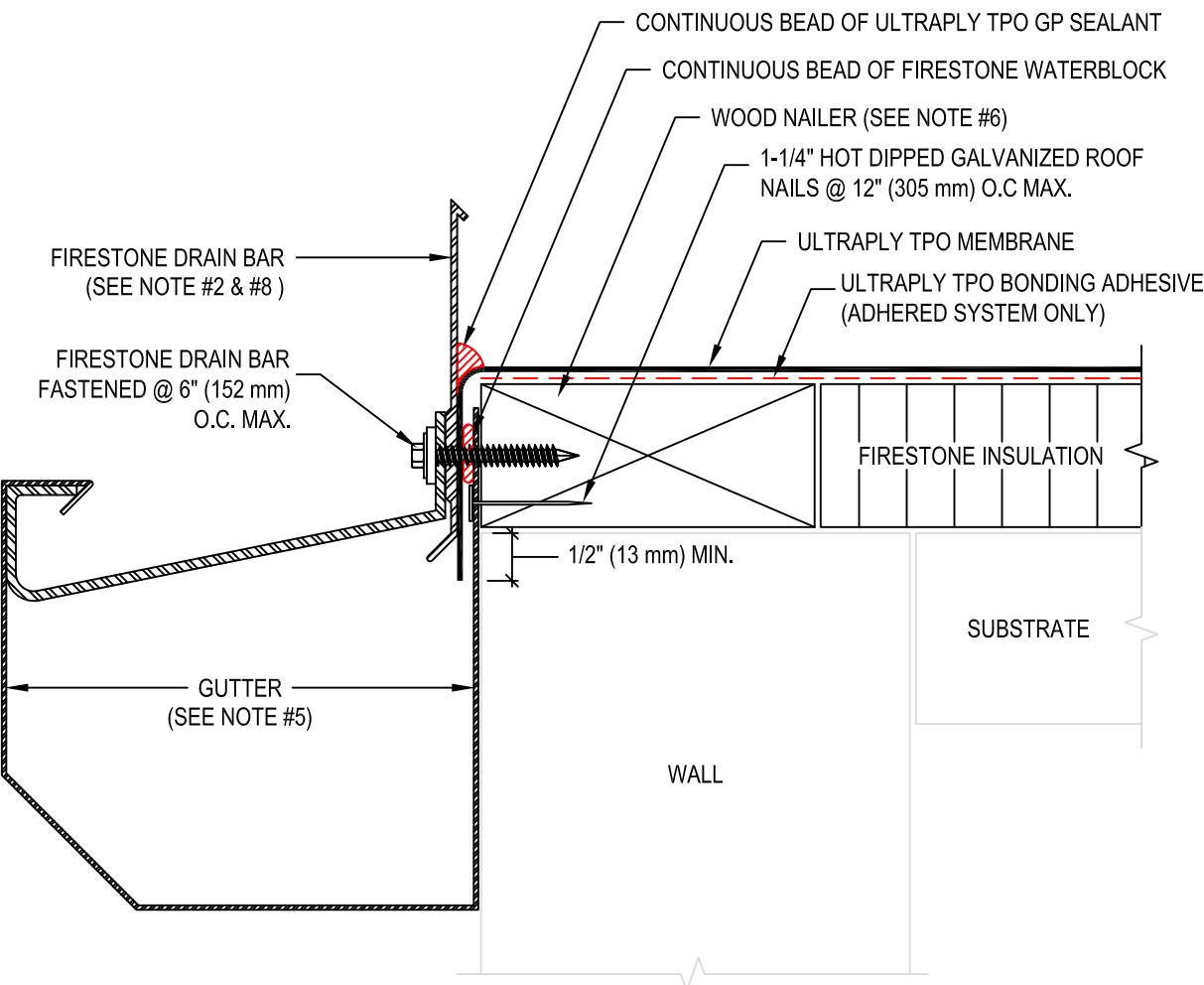
MAXIMUM WARRANTY: **20 YEARS**

DETAIL NO.
UT-RE-11



NOTES:

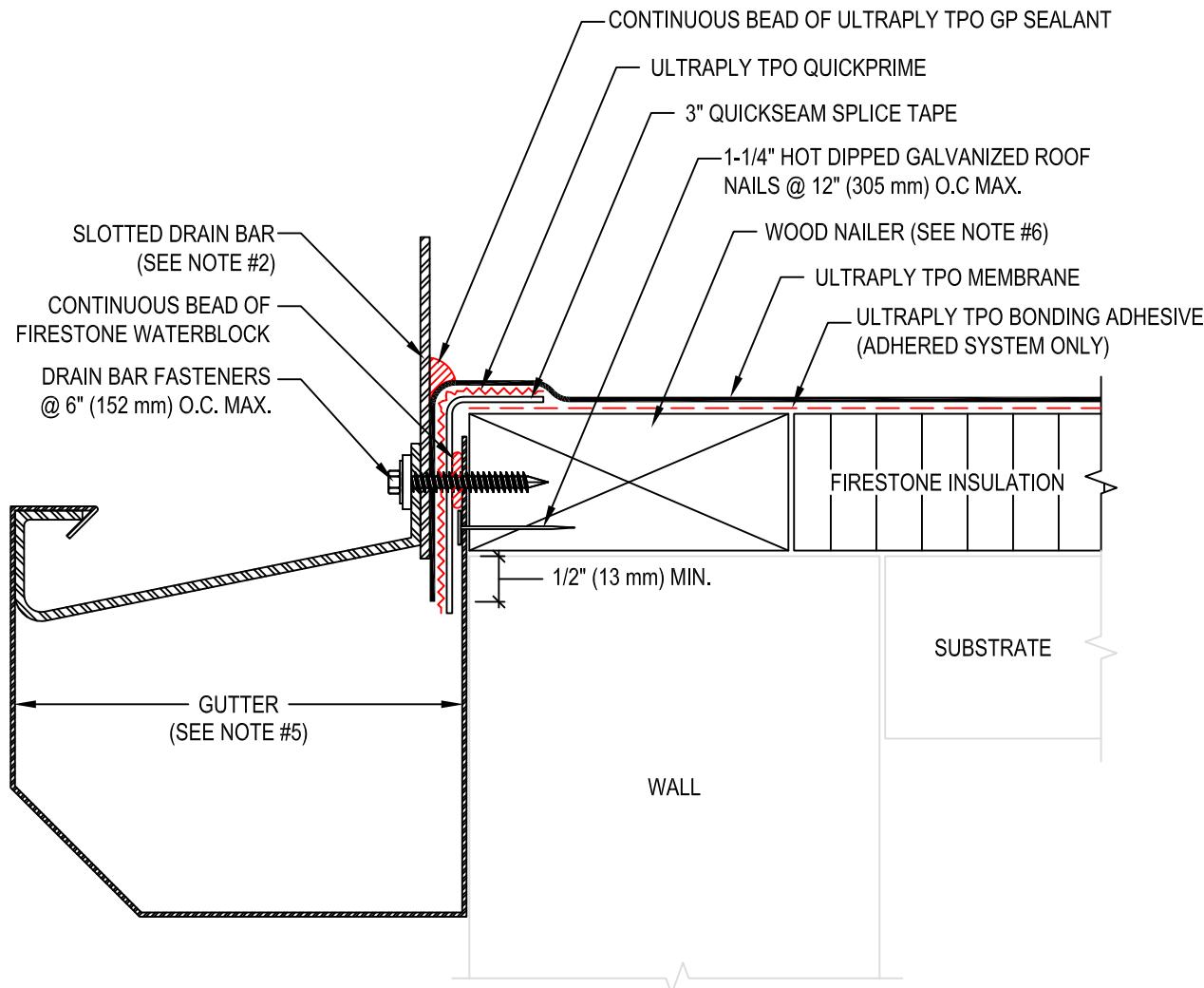
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS. BONDING ADHESIVE REQUIRED BETWEEN METAL MEMBRANE FOR ALL SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATIONS.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. ALLOW 1/4" (6 mm) MAX. SPACE BETWEEN SECTIONS OF DRAIN BAR.
3. ROUND ALL METAL CORNERS AND PLACE BREAK OF GUTTER STRAP 1/4" (6 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO FACE OF THE WOOD NAILER.
5. CONSTRUCT AND ANCHOR GUTTER IN ACCORDANCE WITH SMACNA.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
7. ON BALLASTED ROOFS, DRAIN BAR HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT (2" (51 mm) MIN. ABOVE ROOF SURFACE).
8. FIRESTONE TERMINATION BAR AND STAINLESS FASTENERS MAY BE USED IN LIEU OF FIRESTONE DRAIN BAR FOR MECHANICALLY ATTACHED AND FULLY ADHERED SYSTEMS.

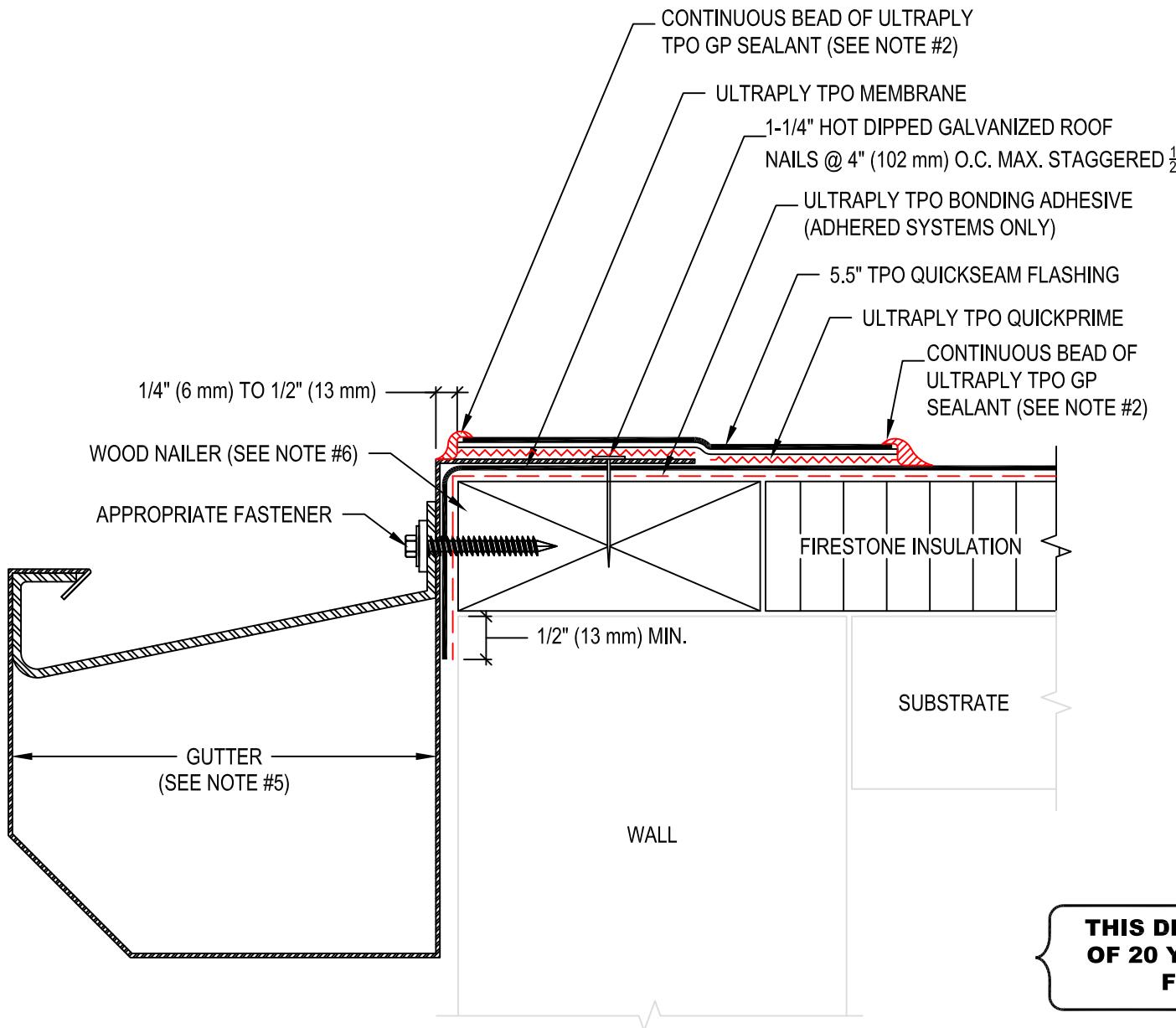
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. ALLOW 1/4" (6 mm) MAX. SPACE BETWEEN SECTIONS OF DRAIN BAR.
3. ROUND ALL METAL CORNERS AND PLACE BREAK OF GUTTER STRAP 1/4" (6 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO FACE OF THE WOOD NAILER.
5. CONSTRUCT AND ANCHOR GUTTER IN ACCORDANCE WITH SMACNA.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
7. ON BALLASTED ROOFS, DRAIN BAR HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT (2" (51 mm) MIN. ABOVE ROOF SURFACE).

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ROOF EDGE GUTTER WITH SLOTTED DRAIN BAR		MAXIMUM WARRANTY: 20 YEARS	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-14

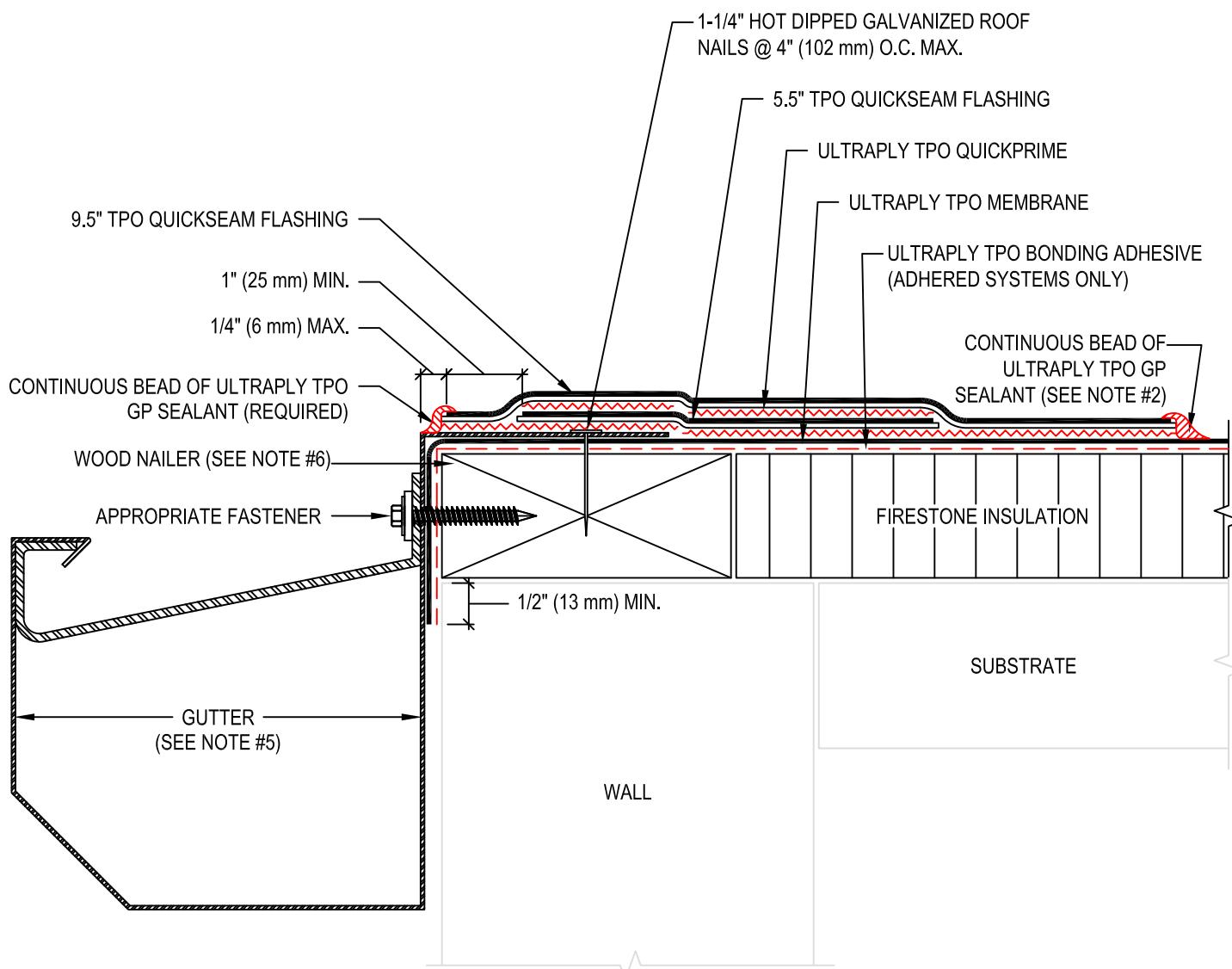


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25 MM) PER FOOT OR GREATER
3. ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" (6 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
5. CONSTRUCT AND 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" (13mm) FROM EDGE WOOD.
8. CONTACT FIRESTONE ROOFING SOLUTION FOR BALLASTED ROOF SYSTEMS.
9. IF THE 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 MAXIMUM OF 20 YEARS. REFER TO DETAIL UT-RE-16 FOR 25 YEAR REQUIREMENTS

MAXIMUM WARRANTY: **20 YEARS**

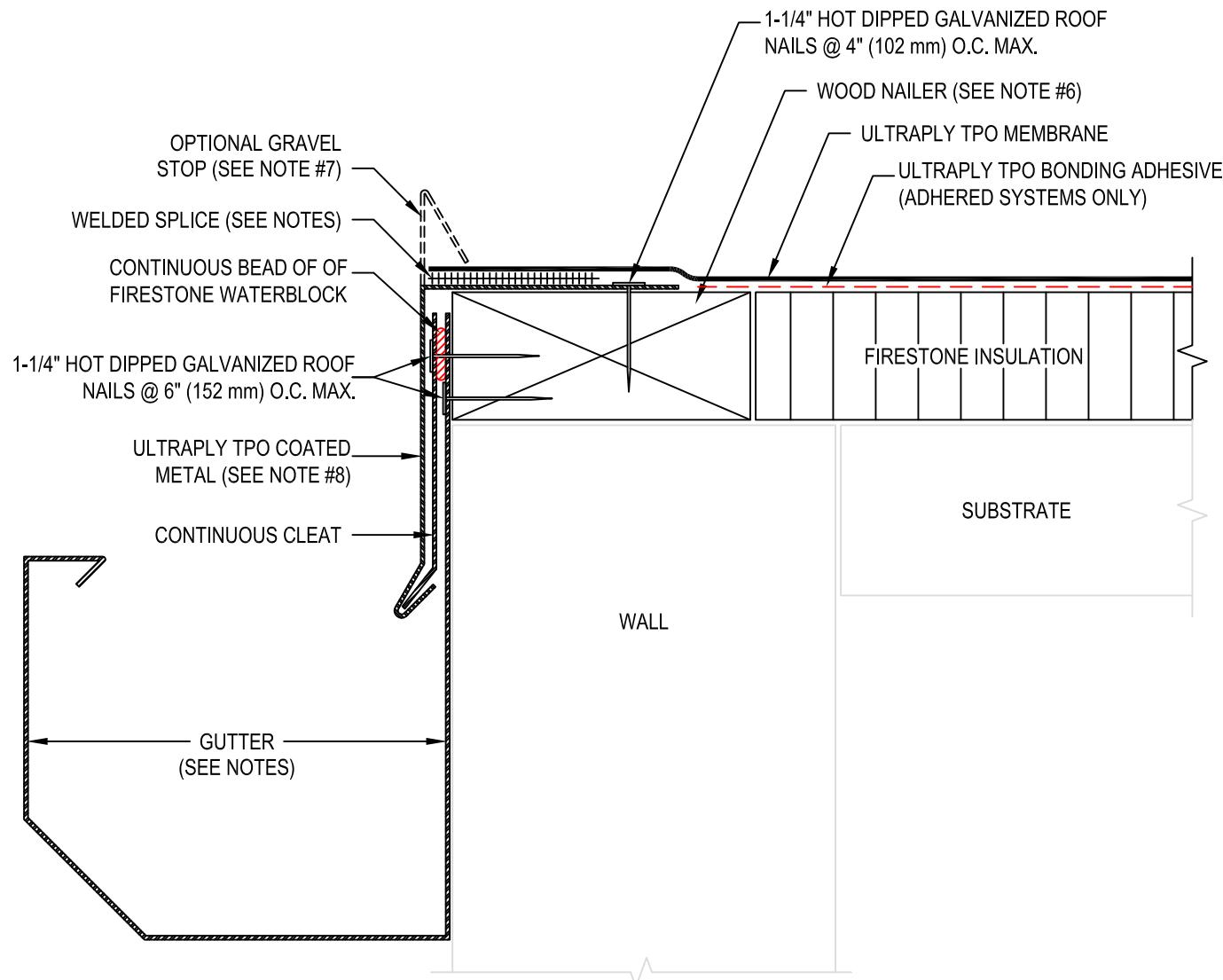


- NOTES:
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
 2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25 MM) PER FOOT OR GREATER
 3. ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" (6 mm) BELOW TOP OF WOOD NAILER.
 4. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
 5. CONSTRUCT AND 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" (13mm) FROM EDGE WOOD.
 8. CONTACT FIRESTONE ROOFING SOLUTION FOR BALLASTED ROOF SYSTEMS.
 9. IF THE THE FLANGE OF THE METAL GUTTER IS NOT COMPLETELY COVERED WITH QUICKSEAM FLASHING, THEN AND ADDITIONAL PIECE OF QUICKSEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES. REFER TO UT-RE-27.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE GUTTER WITH FLANGE		MAXIMUM WARRANTY: 25 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ADHERED, MAS	ISSUE / REVISION DATE: 6/25/2014

NOT TO SCALE

DETAIL NO.
UT-RE-16



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" (6 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
5. CONSTRUCT AND 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. CONTACT FIRESTONE ROOFING SOLUTION FOR BALLASTED ROOF SYSTEMS.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

ROOF EDGE GUTTER WITH ULTRAPLY TPO COATED METAL

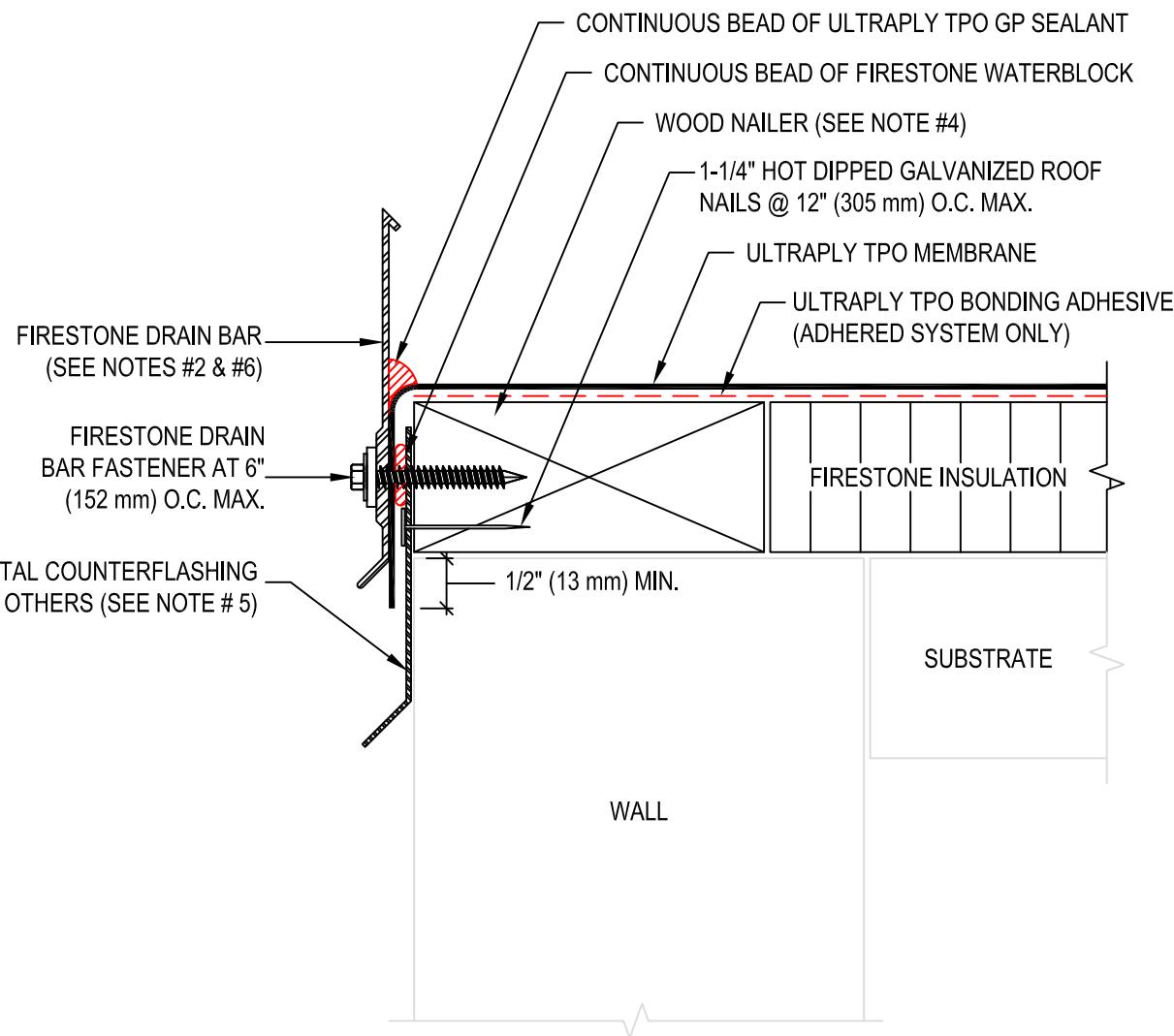
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ADHERED, MAS

ISSUE / REVISION DATE:
6/25/2014

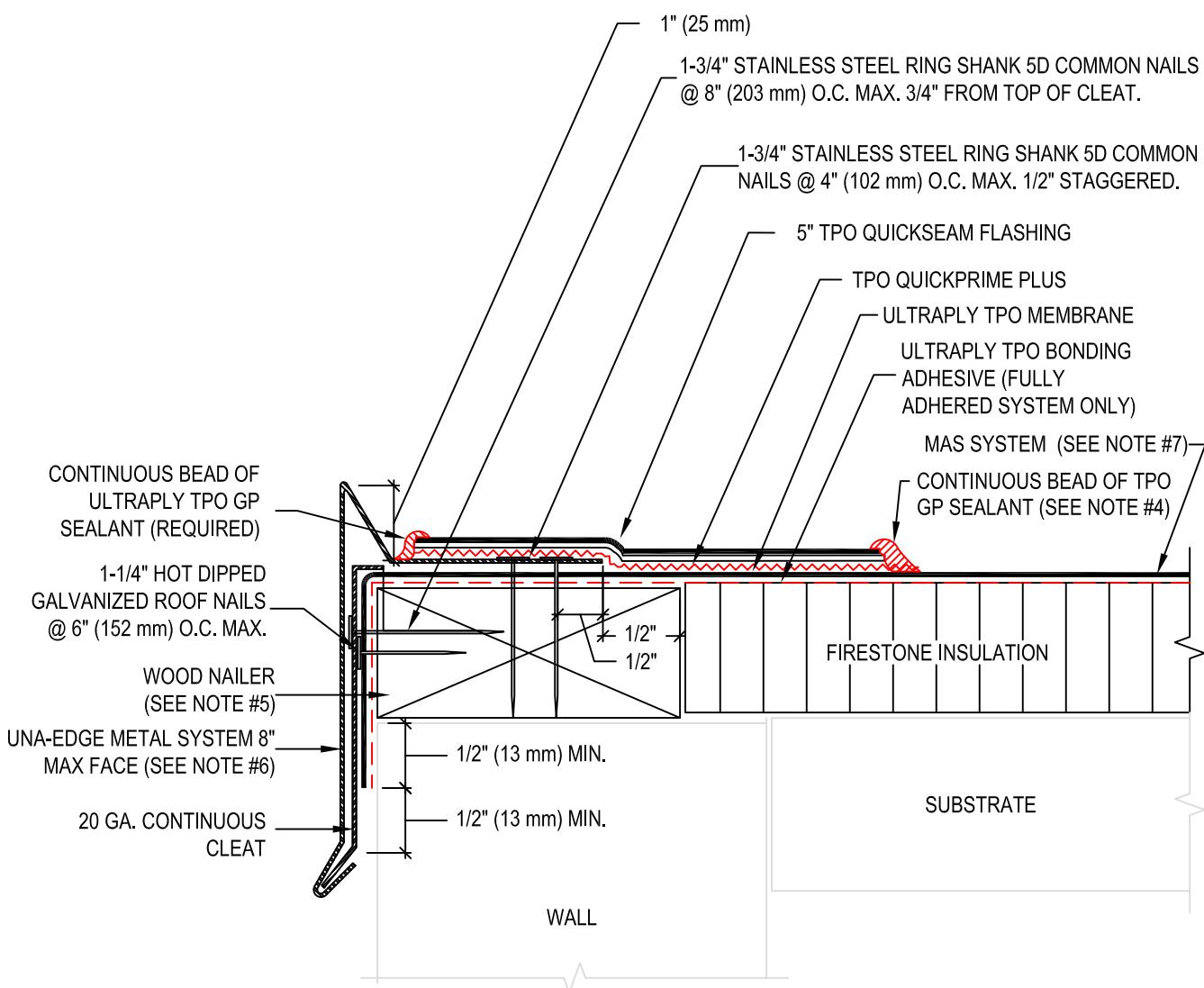
NOT TO SCALE

DETAIL NO.
UT-RE-17



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. ALLOW 1/4" (6 MM) MAX. SPACE BETWEEN SECTIONS OF DRAIN BAR.
3. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
5. IF METAL COUNTERFLASHING EXCEEDS 4" (102 mm) IN WIDTH, A CONTINUOUS CLEAT MUST BE INSTALLED.
6. ON BALLASTED ROOFS, DRAIN BAR HEIGHT MUST MEET OR EXCEED BALLAST PAVER HEIGHT (2" (51mm) MIN. ABOVE ROOF SURFACE).
7. FIRESTONE TERMINATION BAR AND STAINLESS STEEL FASTENERS MAY BE USED IN LIEU OF FIRESTONE DRAIN BAR FOR MECHANICALLY ATTACHED AND FULLY ADHERED SYSTEMS ONLY.

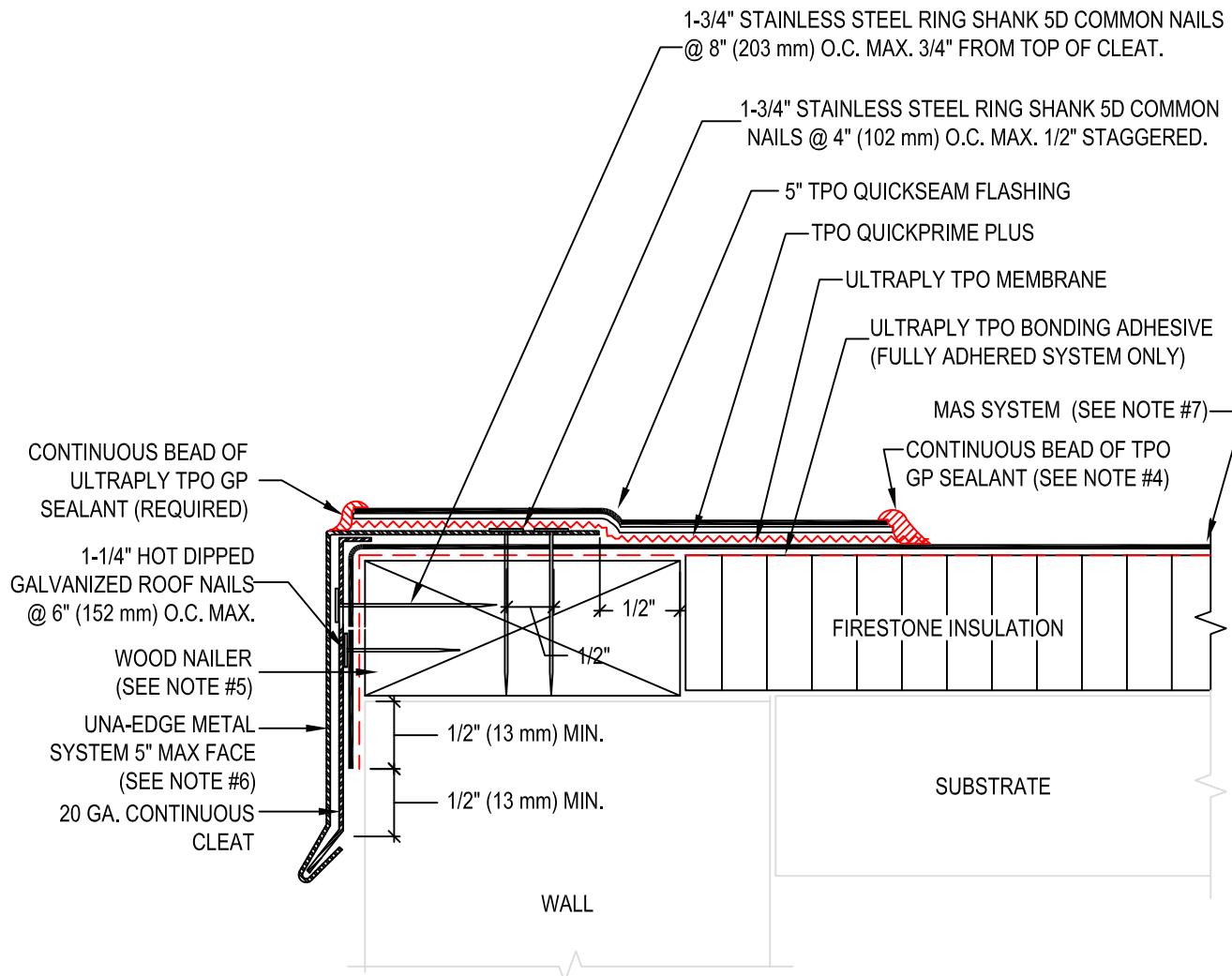


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. 5.5" TPO QUICKSEAM MUST EXTEND TO WITHIN 3/8" (10 mm) OF THE GRAVELSTOP RISE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPF TIE-IN WITH-IN 12" (305 mm) OF GRAVELSTOP.

MAXIMUM WARRANTY: 15 YEARS

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ROOF EDGE WITH UNA-EDGE GRAVEL STOP (GS)		ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-19A
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. 5" TPO QUICKSEAM MUST EXTEND TO WITHIN 3/8" (10 mm) OF THE DRIP EDGE RISE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPF TIE-IN WITH-IN 12" (305 mm) OF DRIP EDGE.

MAXIMUM WARRANTY: 15 YEARS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

ROOF EDGE WITH UNA-EDGE DRIP EDGE (DE)

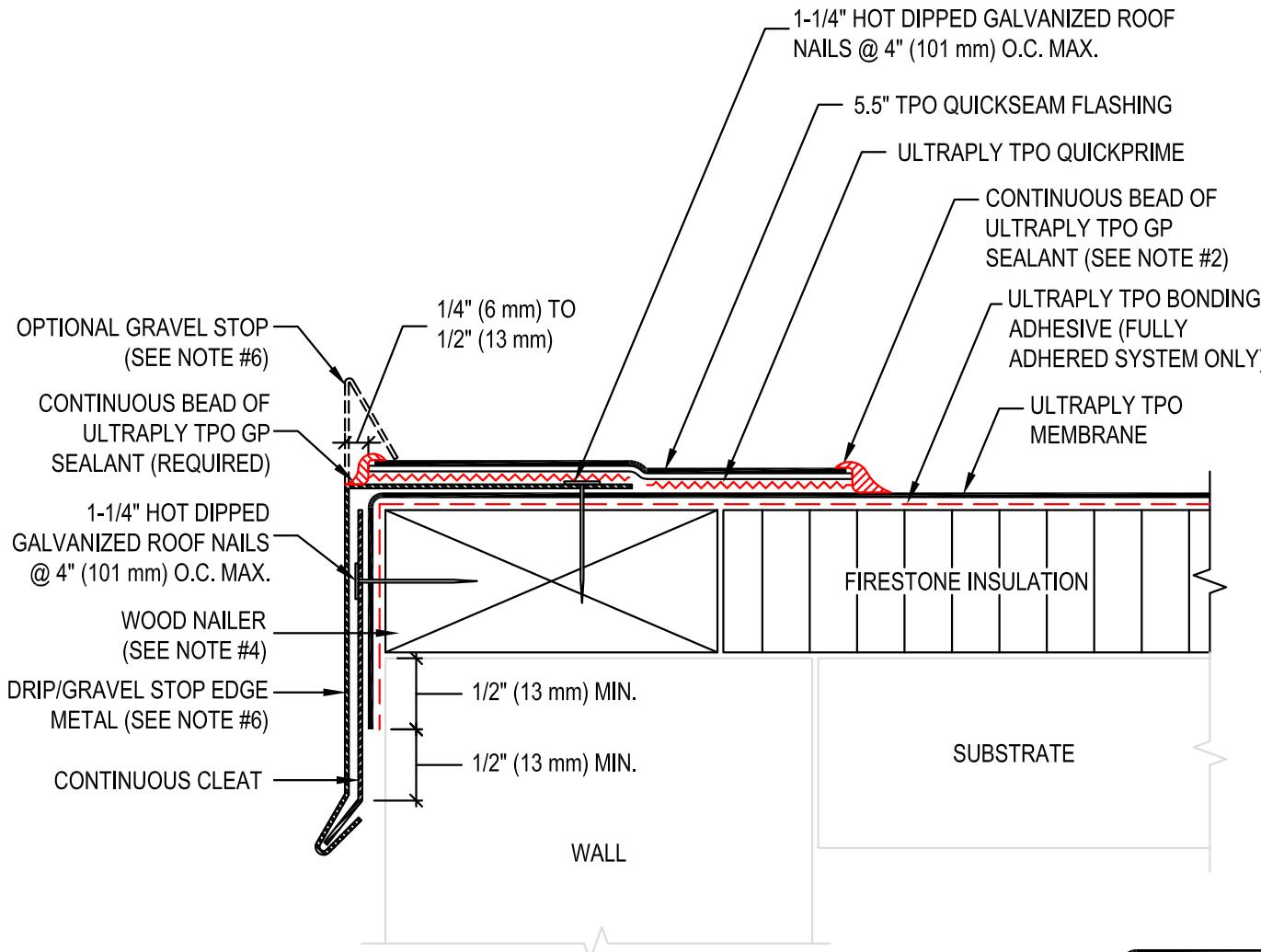
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
6/25/2014

NOT TO SCALE

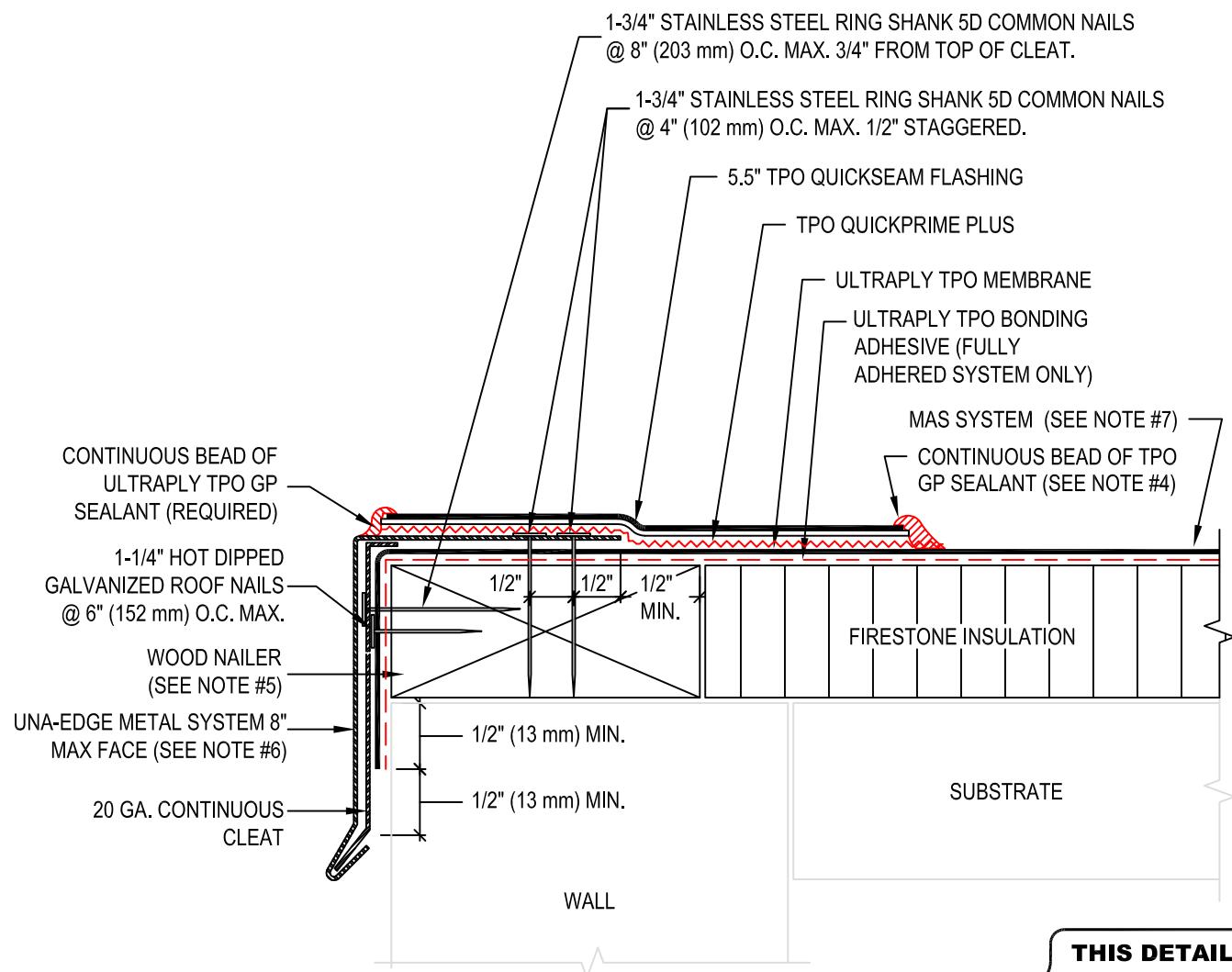
DETAIL NO.
UT-RE-19B



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. INSTALL METAL WORK TO MANUFACTURER'S REQUIREMENTS OR SMACNA RECOMMENDATIONS. IF SHOP FABRICATED METAL EDGE IS USED IT MUST MEET ANSI/SPRI ES-1 OR AN FM STANDARD.
3. ULTRAPLY TPO GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25 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" (13 mm) FROM EDGE OF WOOD.
6. ON BALLASTED ROOFS, GRAVEL STOP HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT (2" (51mm) MIN. ABOVE ROOF SURFACE).
7. IF THE FLANGE OF 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 MAXIMUM OF 20 YEARS. REFER TO DETAIL UT-RE-21 FOR 25 YEAR REQUIREMENTS

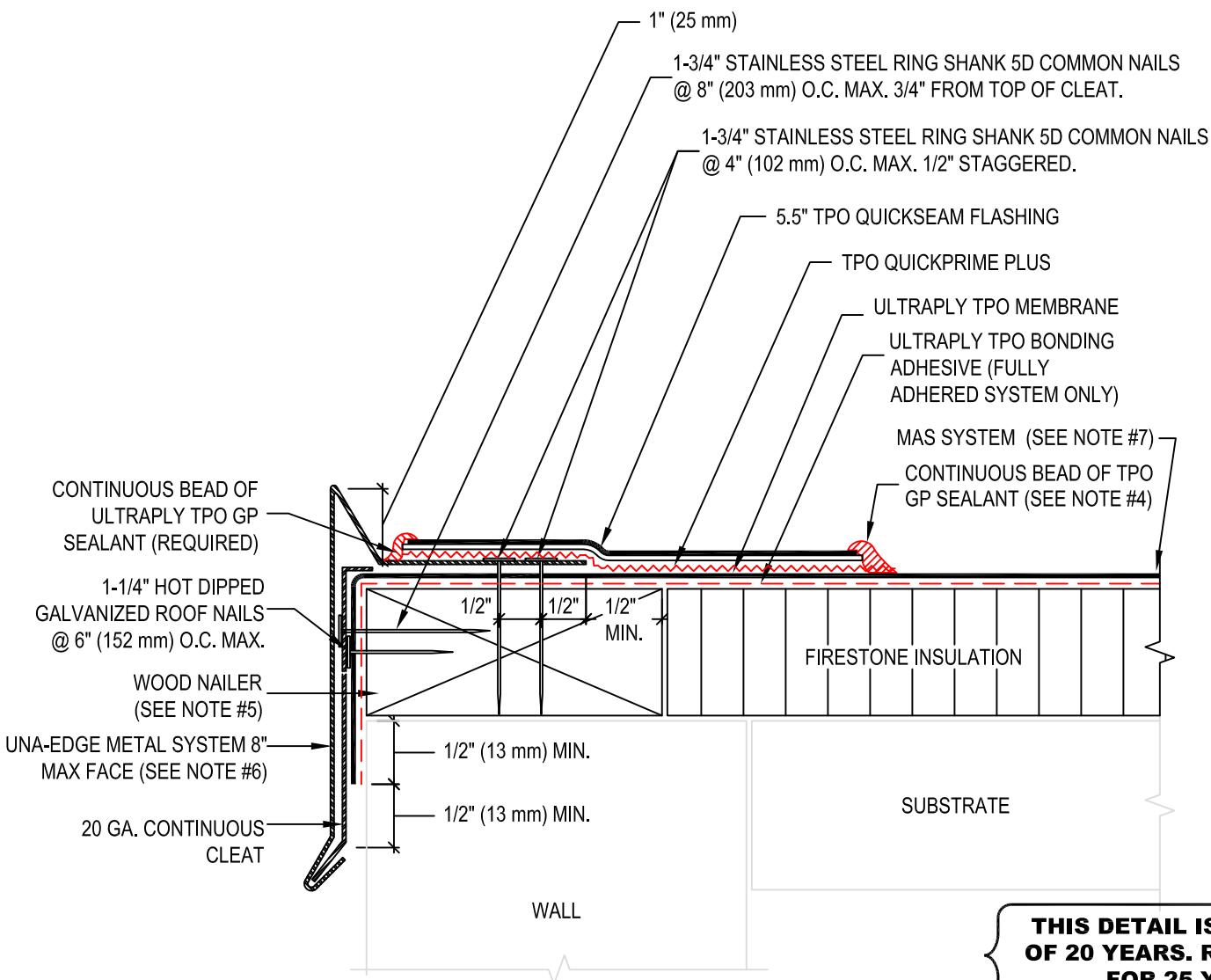


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. 5.5" TPO QUICKSEAM MUST EXTEND TO WITHIN 3/8" (10mm) OF THE GRAVELSTOP RISE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPF TIE-IN WITHIN 12" (305 mm) OF GRAVELSTOP.

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

MAXIMUM WARRANTY: **20 YEARS**

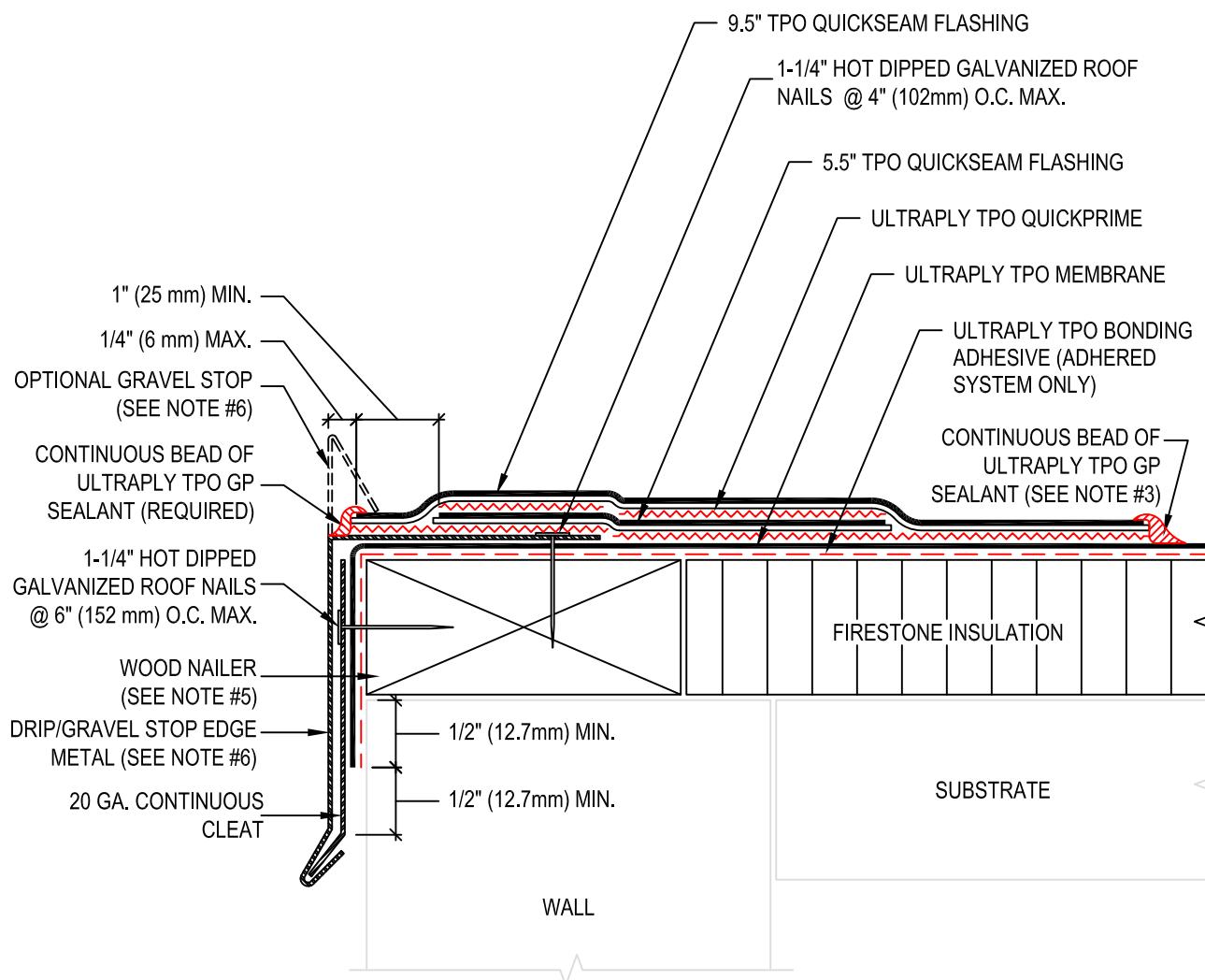


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. 5.5" TPO QUICKSEAM MUST EXTEND TO WITHIN 3/8" (10mm) OF THE GRAVELSTOP RISE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPF TIE-IN WITH-IN 12" (305 mm) OF GRAVELSTOP.

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

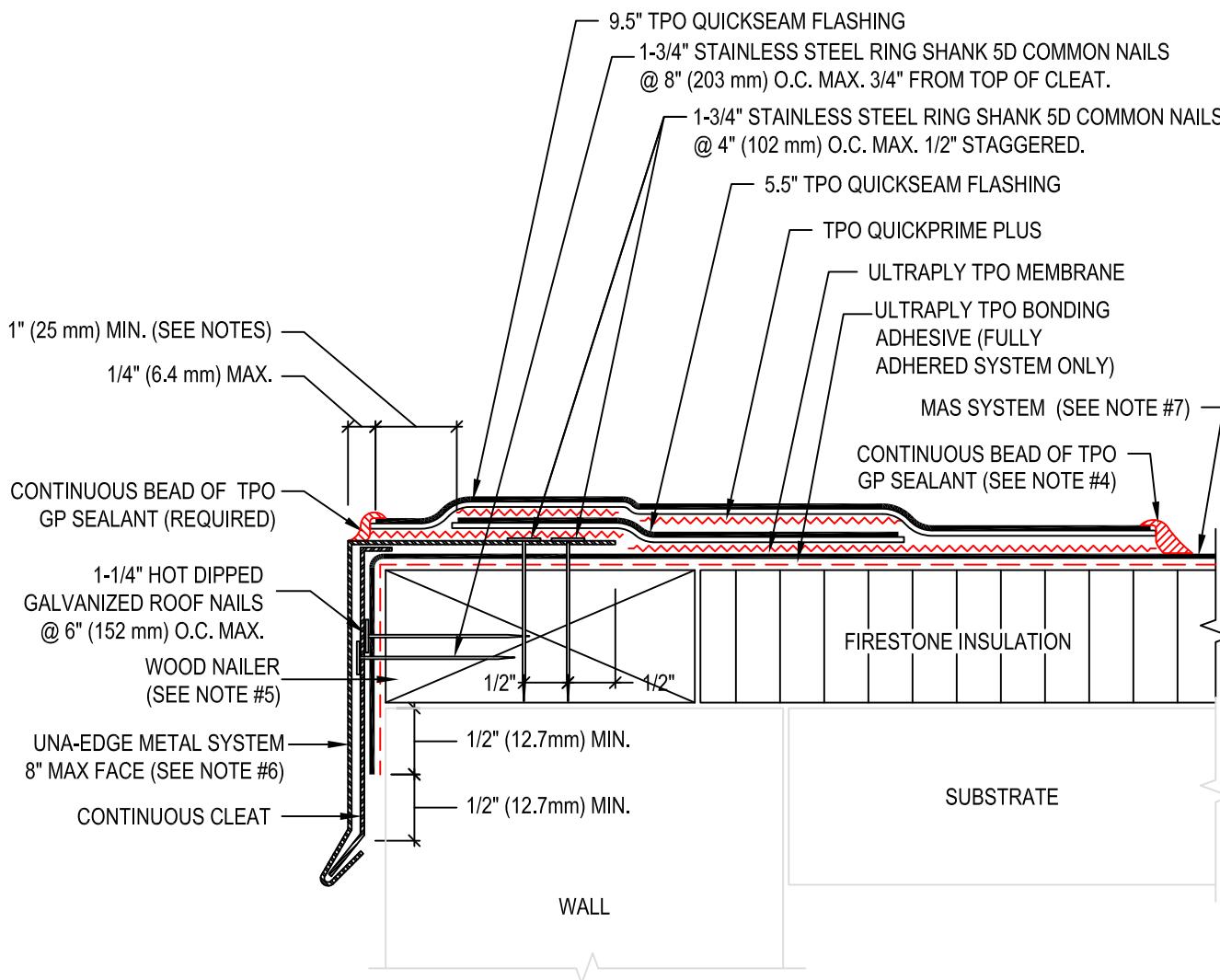
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	ROOF EDGE WITH FIRESTONE UNA-EDGE GS (GRAVEL STOP)		MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/25/2014
			NOT TO SCALE
			DETAIL NO. UT-RE-20B



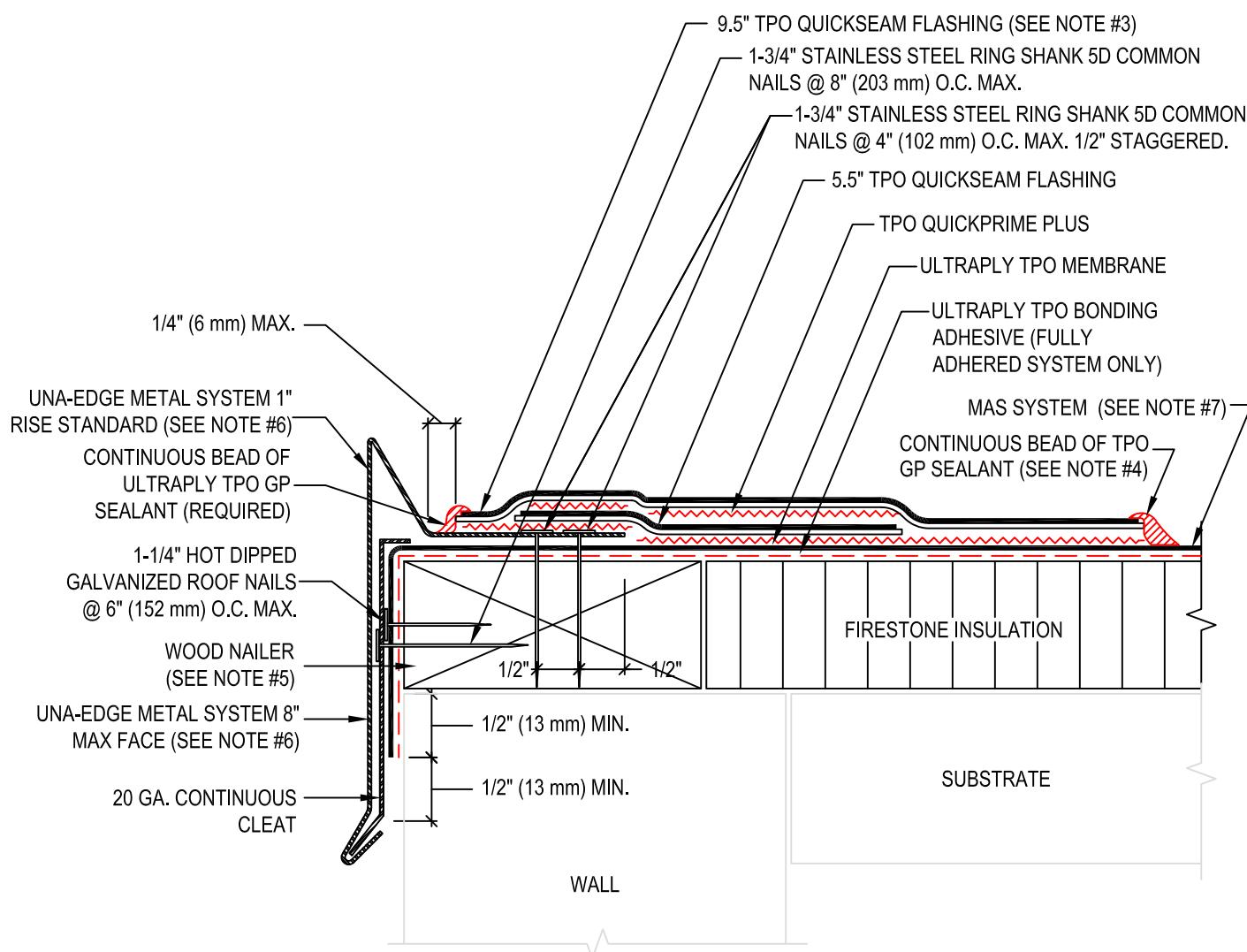
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. INSTALL METALWORK TO MANUFACTURES REQUIREMENTS OR SMACNA RECOMMENDATIONS. IF SHOP FABRICATED METAL EDGE IS USED IT MUST MEET ANSI/SPRI ES-1 OR AN FM STANDARD.
3. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 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" (13 mm) FROM EDGE OF WOOD.
6. ON BALLASTED ROOFS, GRAVEL STOP HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT. (2" (51mm) 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.

MAXIMUM WARRANTY: 25 YEARS



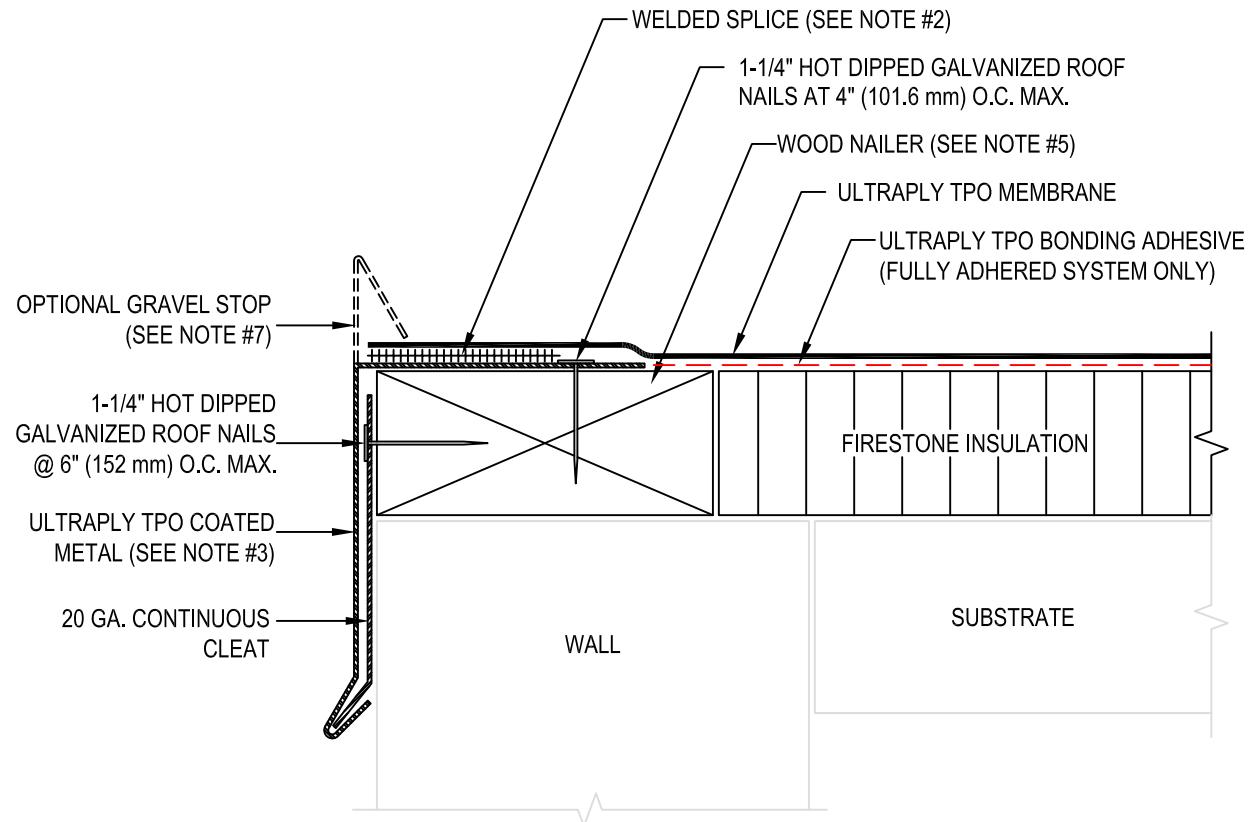
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE WITH FIRESTONE UNA-EDGE DE (DRIP EDGE)		MAXIMUM WARRANTY: 25 YEARS	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-21A



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
3. 9.5" TPO QUICKSEAM MUST EXTEND TO WITHIN 1/4" (6 mm) OF THE GRAVELSTOP RISE.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPF TIE-IN WITHIN 12" (305 mm) OF GRAVELSTOP.

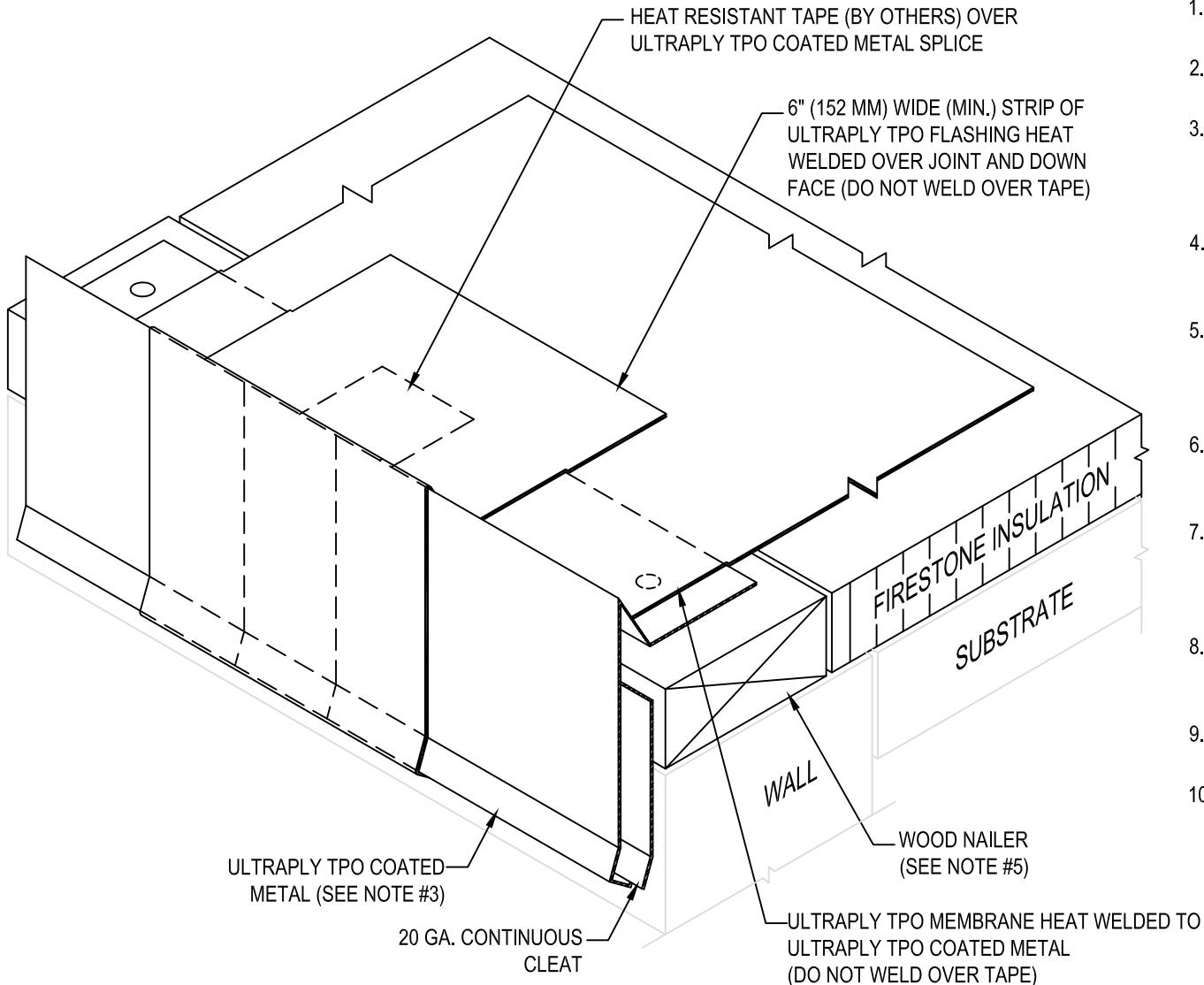
MAXIMUM WARRANTY: 25 YEARS



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT LS-2 FOR WELD WIDTH.
3. REFER TO DETAIL UT-RE-23 FOR ULTRA TPO COATED METAL ROOF EDGE SPLICE.
4. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS. IF SHOP FABRICATED METAL EDGE IS USED IT MUST MEET ANSI/SPRI ES-1 OR AN FM STANDARD.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. ON BALLASTED ROOFS, GRAVEL STOP HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT (2" (51 mm) MIN. ABOVE ROOF SURFACE).
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

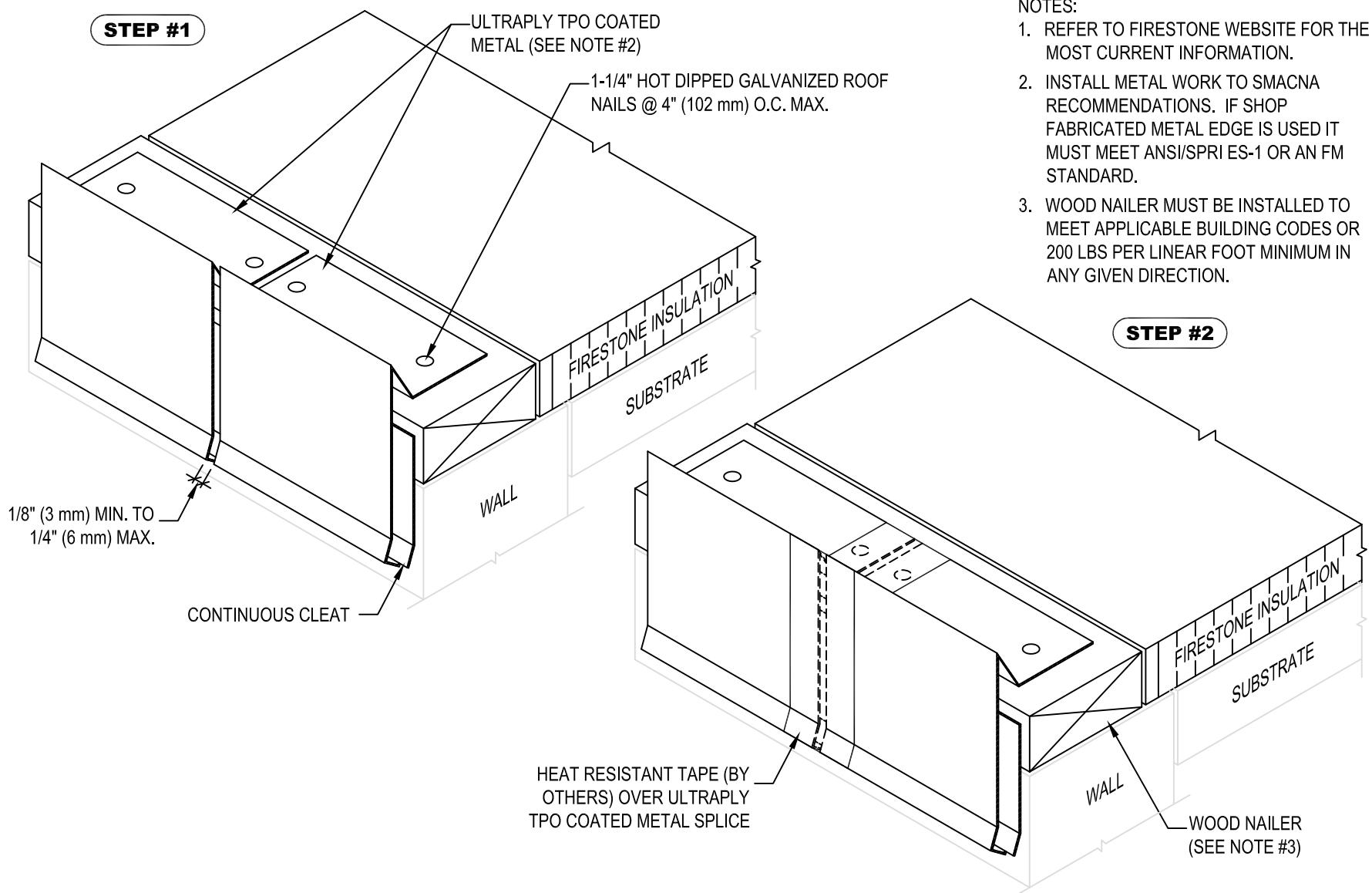
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

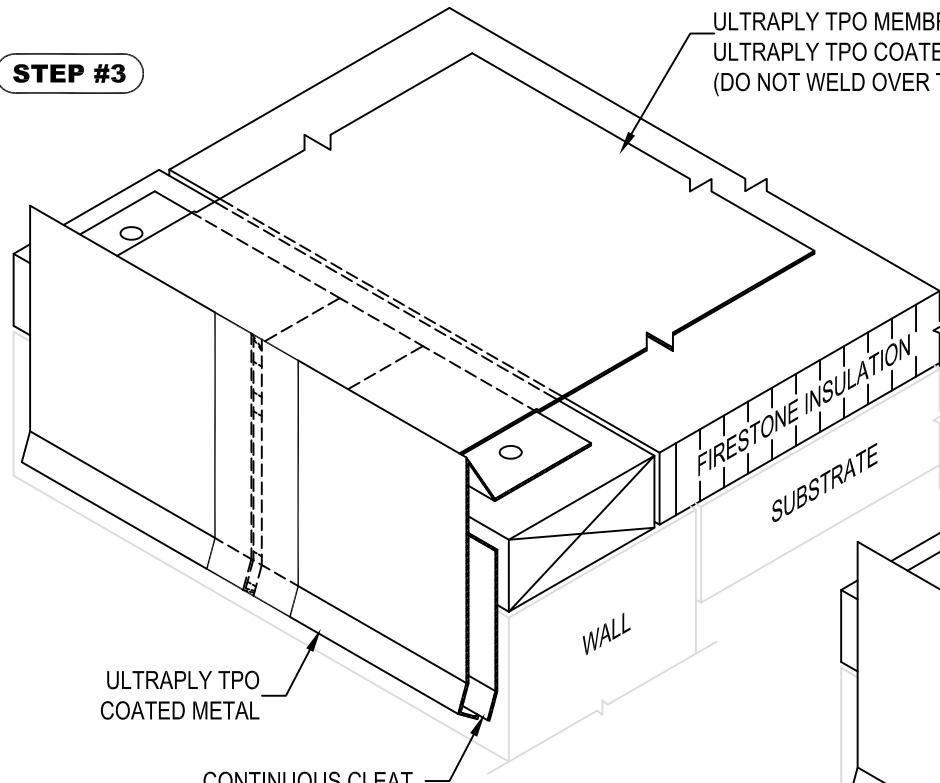
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT LS-2 FOR WELD WIDTH.
3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS. IF SHOP FABRICATED METAL EDGE IS USED IT MUST MEET ANSI/SPRI ES-1 OR AN FM STANDARD.
4. INSTALL ULTRAPLY TPO COATED METAL WITH 1/8" (3 mm) MIN. TO 1/4" (6 mm) MAX BETWEEN ADJOINING SECTIONS.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
7. ON BALLASTED ROOFS, GRAVEL STOP HEIGHT MUST MEET OR EXCEED BALLAST OR PAVER HEIGHT (2" (51 mm) MIN. ABOVE ROOF SURFACE).
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
9. SEE UT-RE-23a & UT-RE-23b FOR DETAIL INSTALLATION INSTRUCTIONS.
10. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**



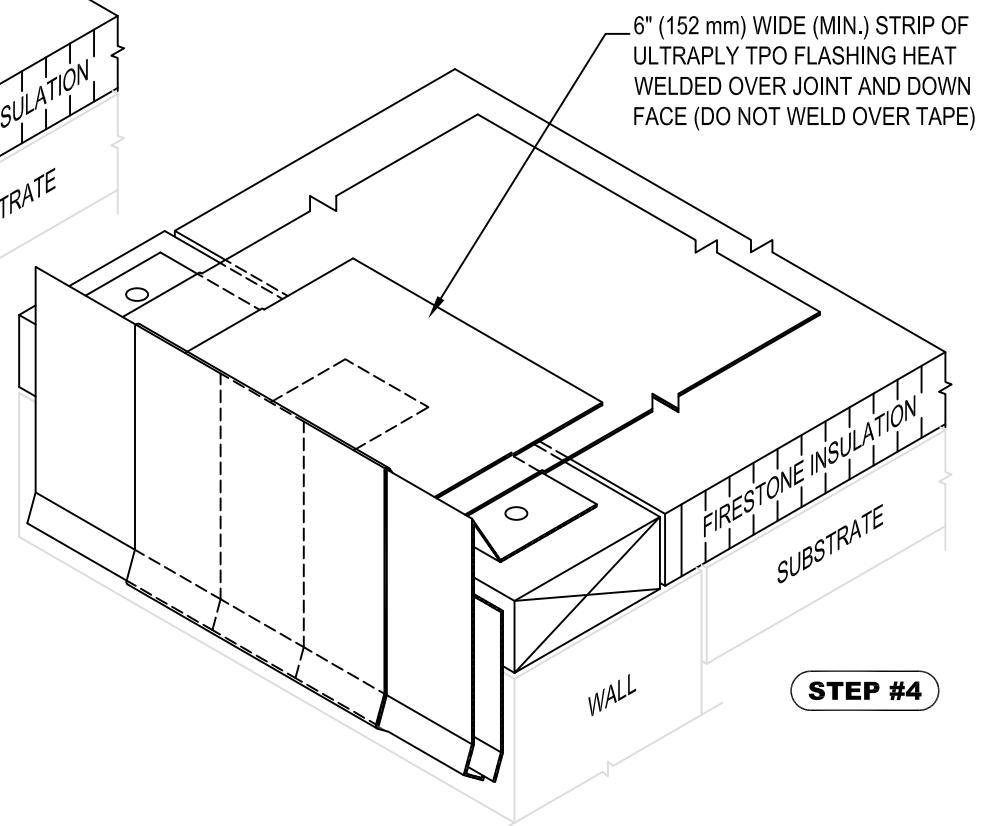
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE SPLICE WITH ULTRAPLY TPO COATED METAL - INSTALLATION STEPS 1 & 2		MAXIMUM WARRANTY: 20 YEARS
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	ISSUE / REVISION DATE: 6/25/2014
			DETAIL NO. UT-RE-23a

STEP #3



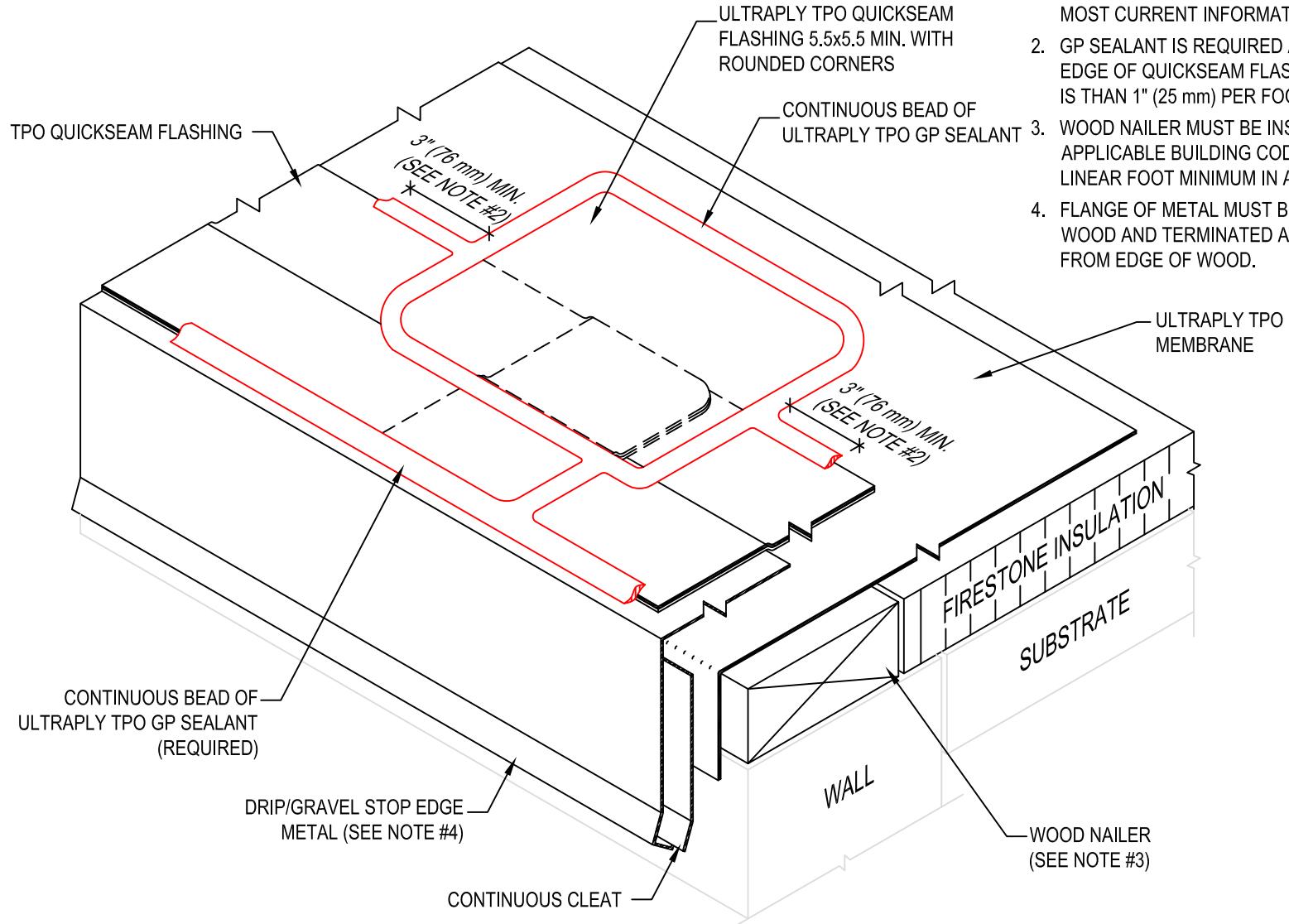
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT LS-2 FOR WELD WIDTH.
3. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



STEP #4

MAXIMUM WARRANTY: **20 YEARS**



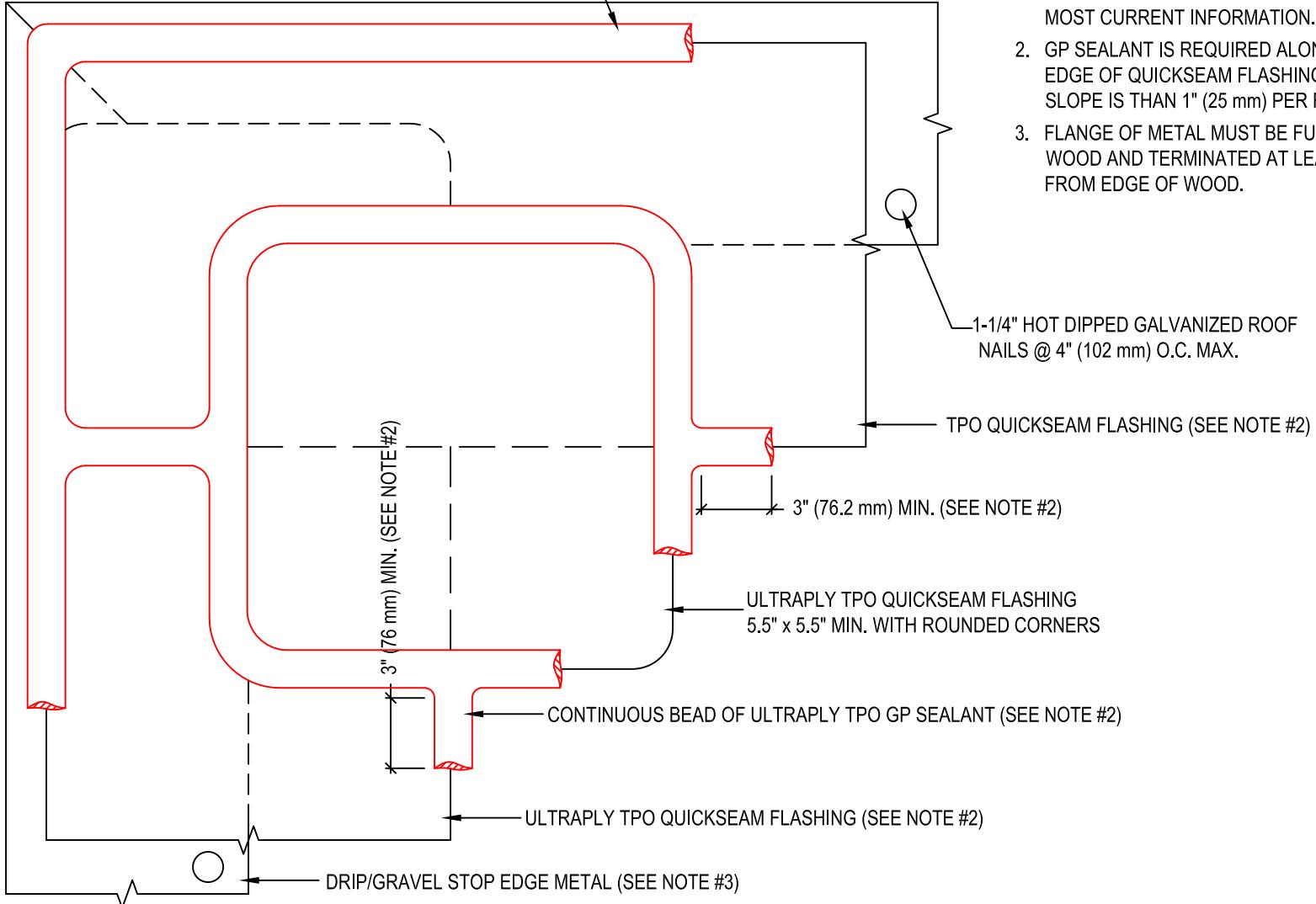
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS THAN 1" (25 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" (13 mm) FROM EDGE OF WOOD.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	ROOF EDGE WITH TPO QUICKSEAM FLASHING END SPLICE OVERLAP	ISSUE / REVISION DATE: 6/25/2014	DETAIL NO. UT-RE-24
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

CONTINUOUS BEAD OF ULTRAPLY TPO GP SEALANT (REQUIRED)



MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.TM
www.firestonebpc.com

ROOF EDGE CORNER WITH TPO QUICKSEAM FLASHING

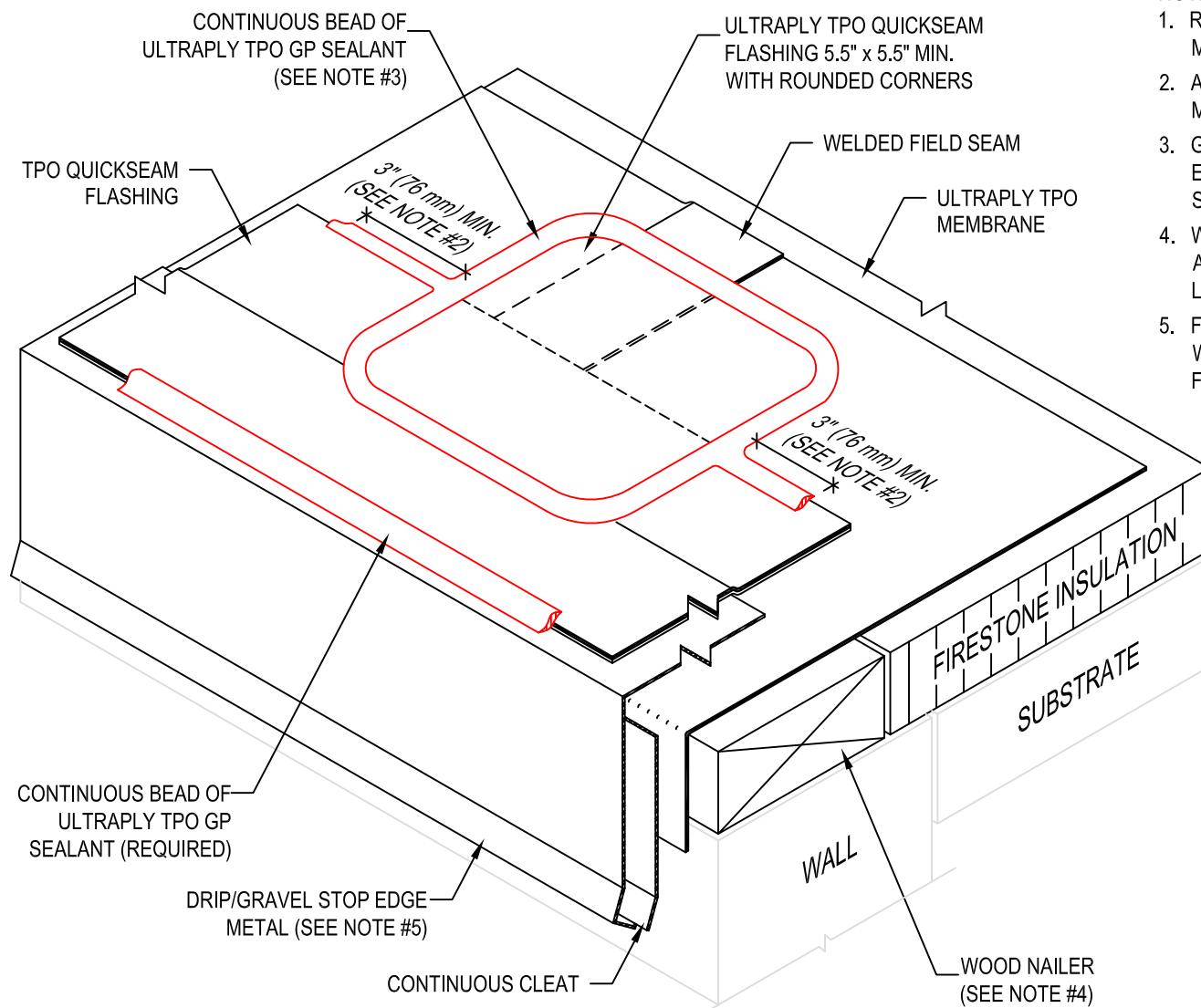
ULTRAPLYTM TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
6/25/2014

NOT TO SCALE

DETAIL NO.
UT-RE-25



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. APPLY GP SEALANT ALONG CUT EDGE OF MEMBRANE.
3. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS THAN 1" (25 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" (13 mm) FROM EDGE OF WOOD.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

**ROOF EDGE WITH TPO QUICKSEAM FLASHING
AT FIELD SEAM**

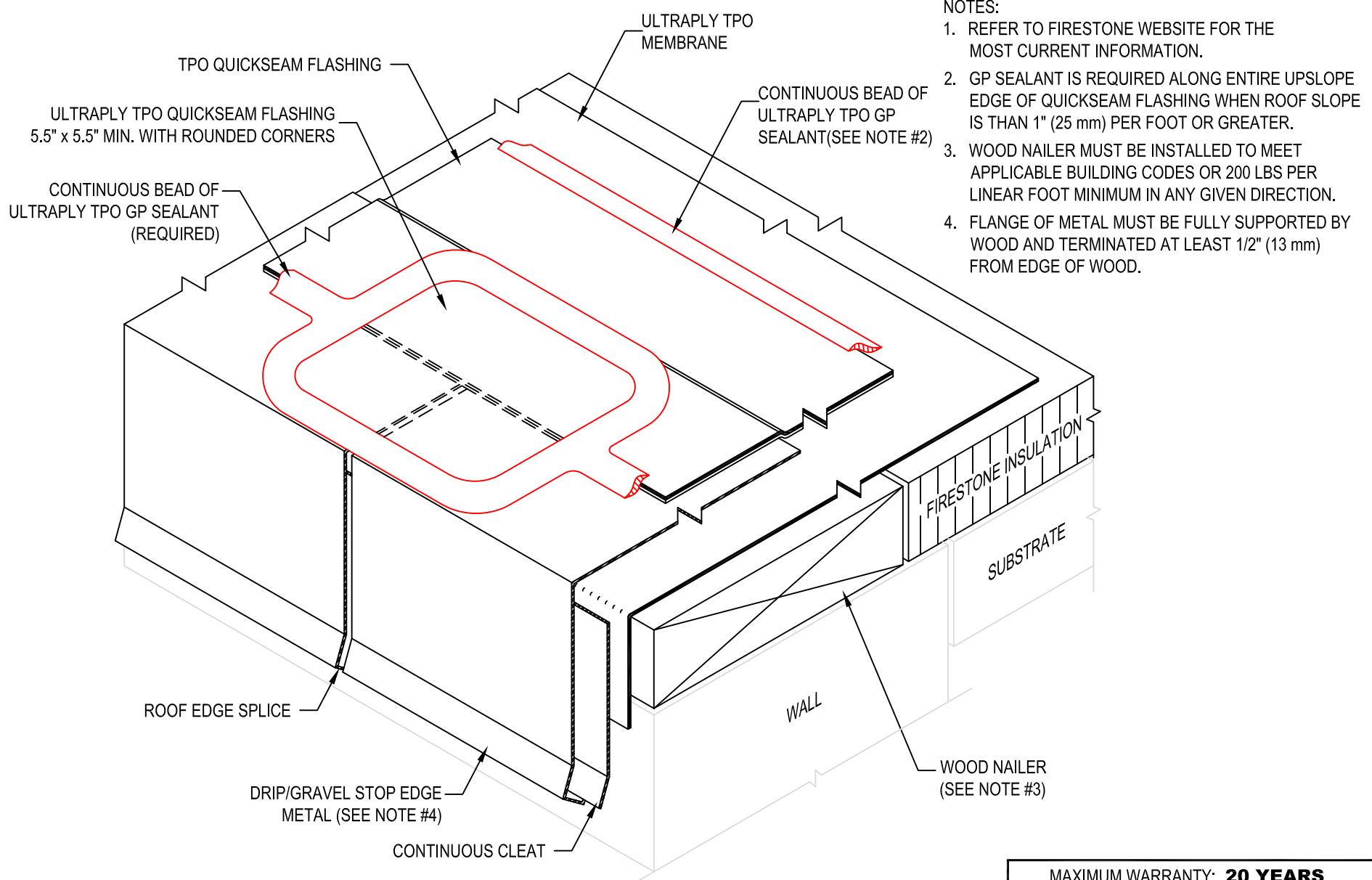
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
6/25/2014
NOT TO SCALE

MAXIMUM WARRANTY: **20 YEARS**

DETAIL NO.
UT-RE-26



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com
--

ROOF EDGE SPLICE WITH TPO QUICKSEAM FLASHING COVER

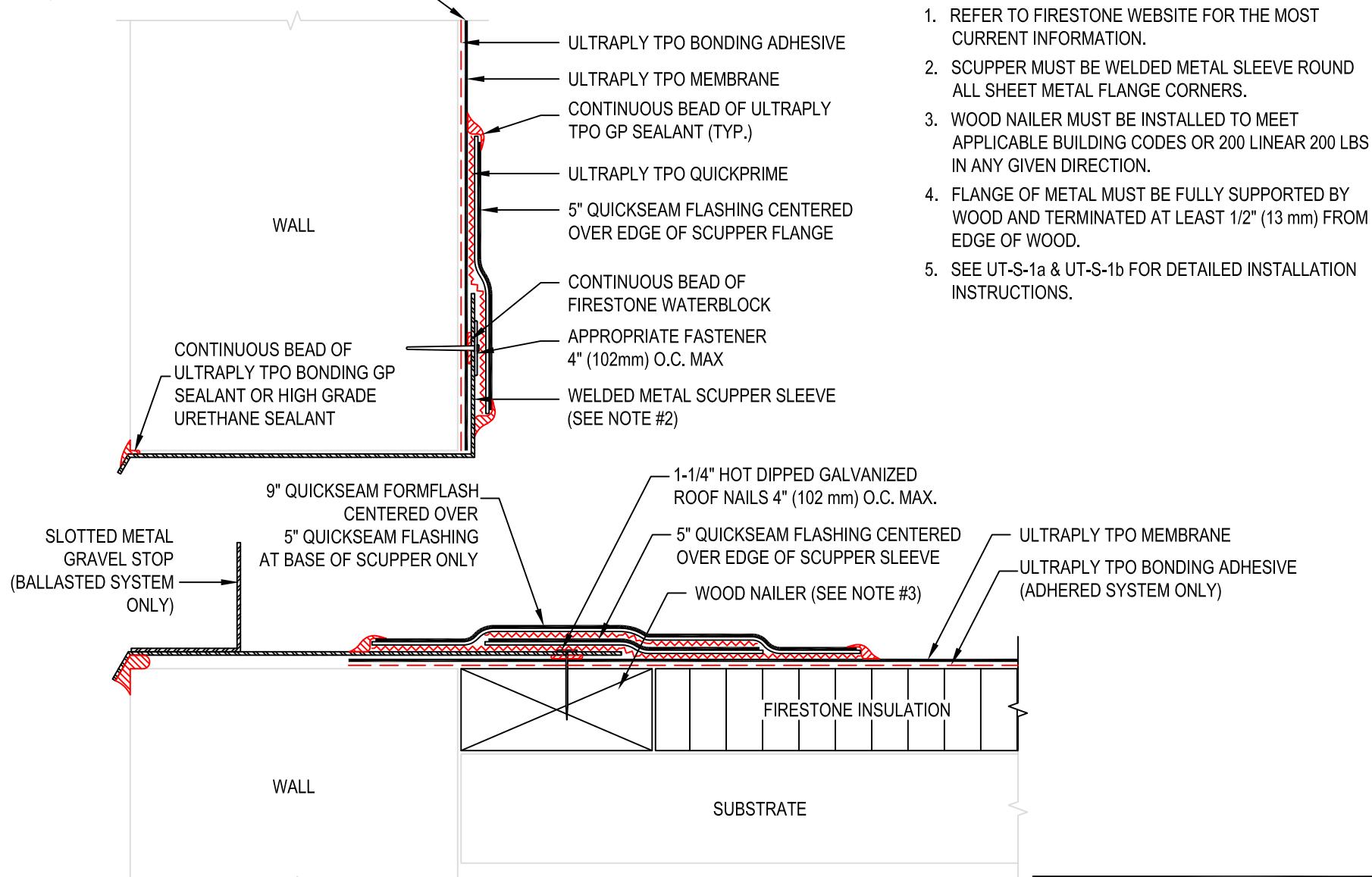
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

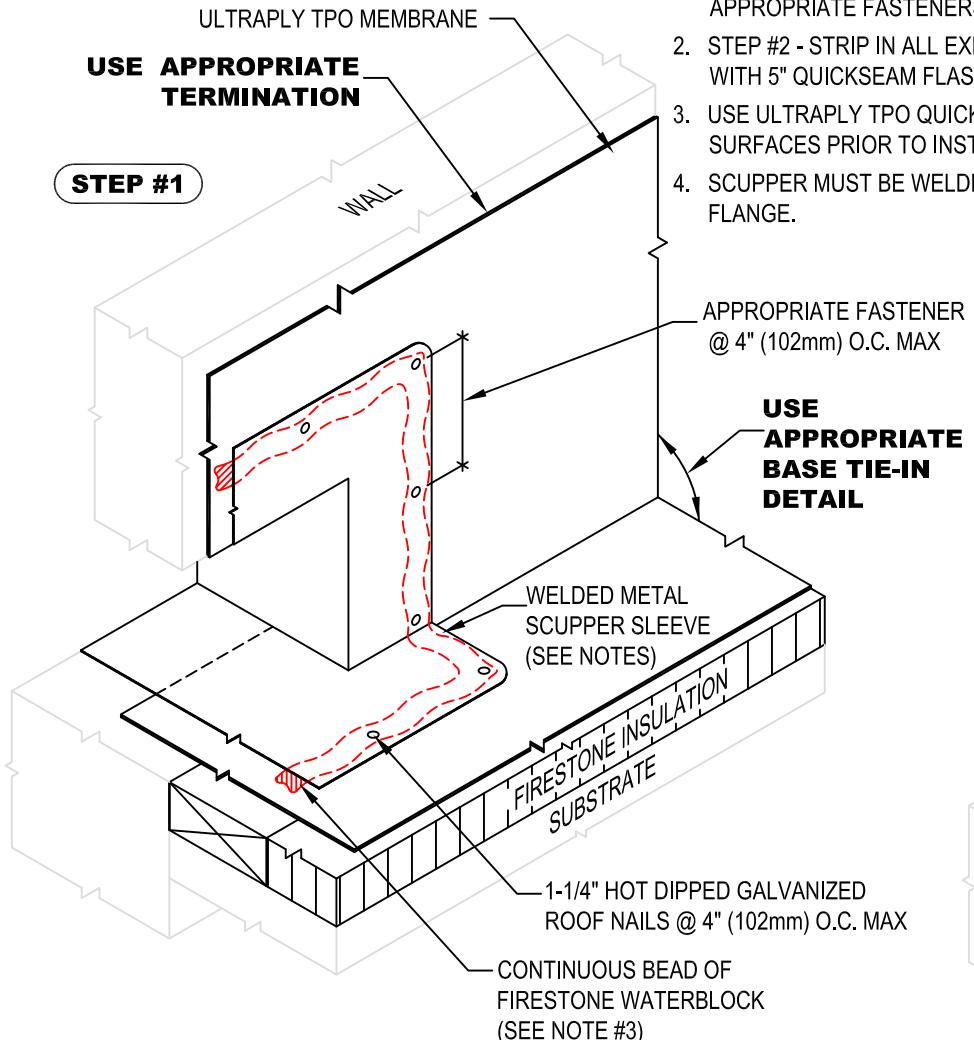
ISSUE / REVISION DATE:
6/25/2014
NOT TO SCALE

DETAIL NO.
UT-RE-27

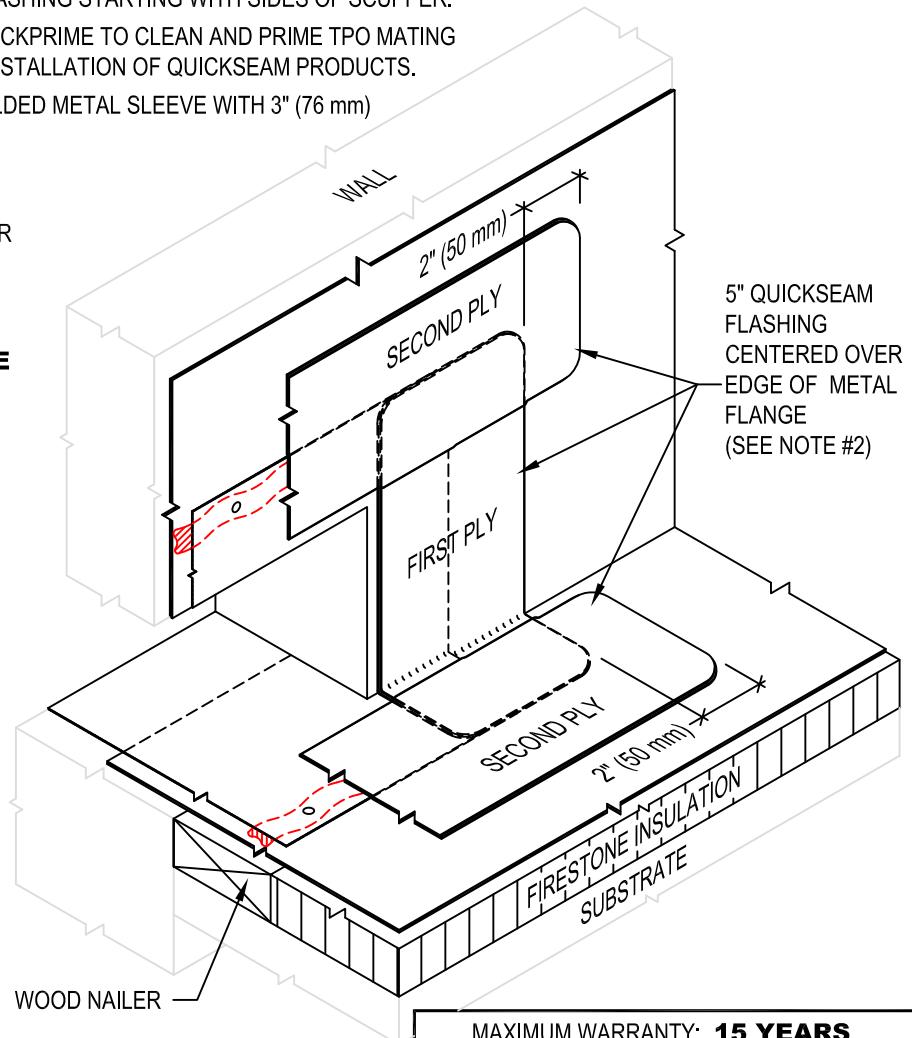
USE APPROPRIATE TERMINATION



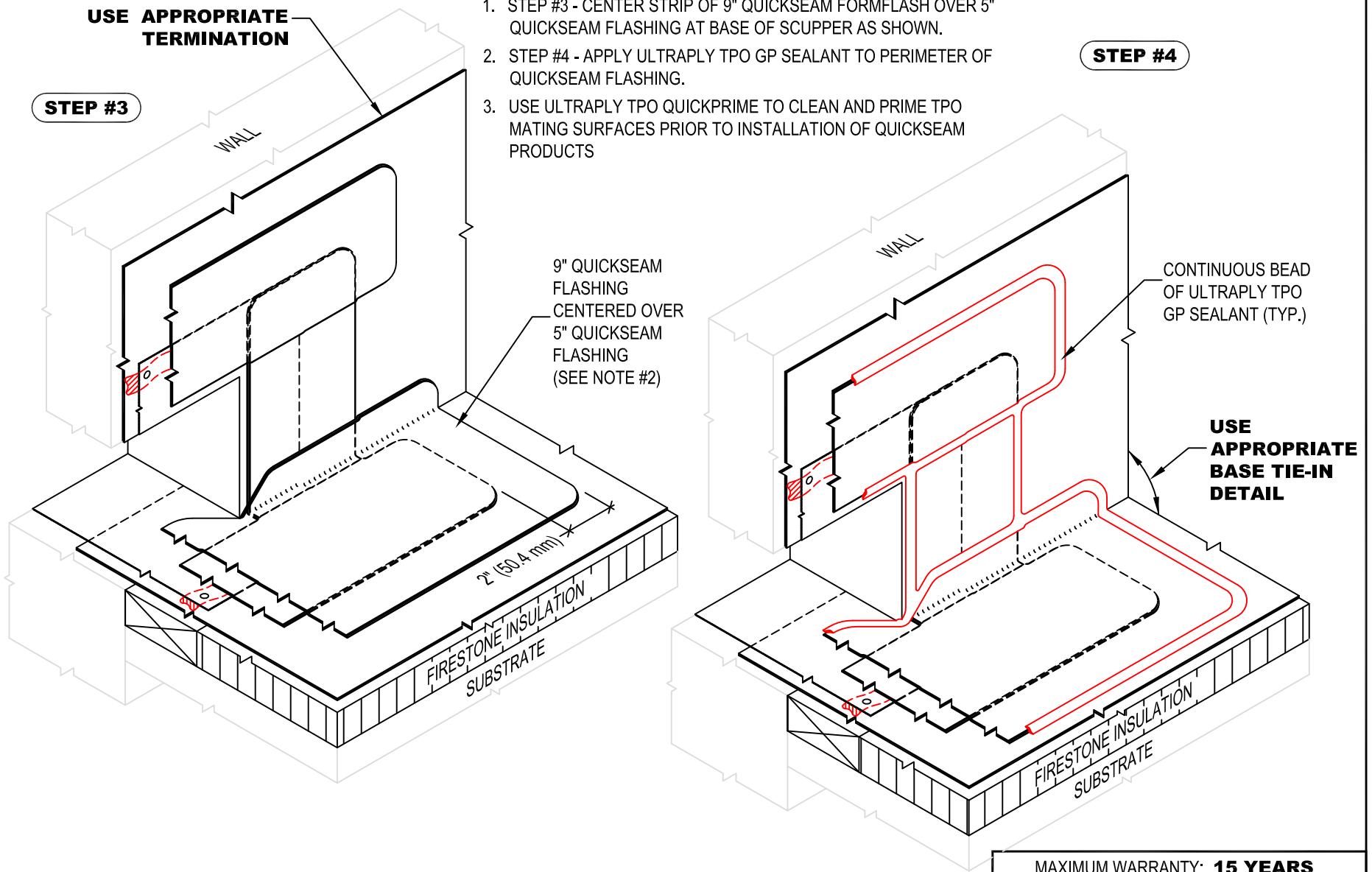
MAXIMUM WARRANTY: **15 YEARS**



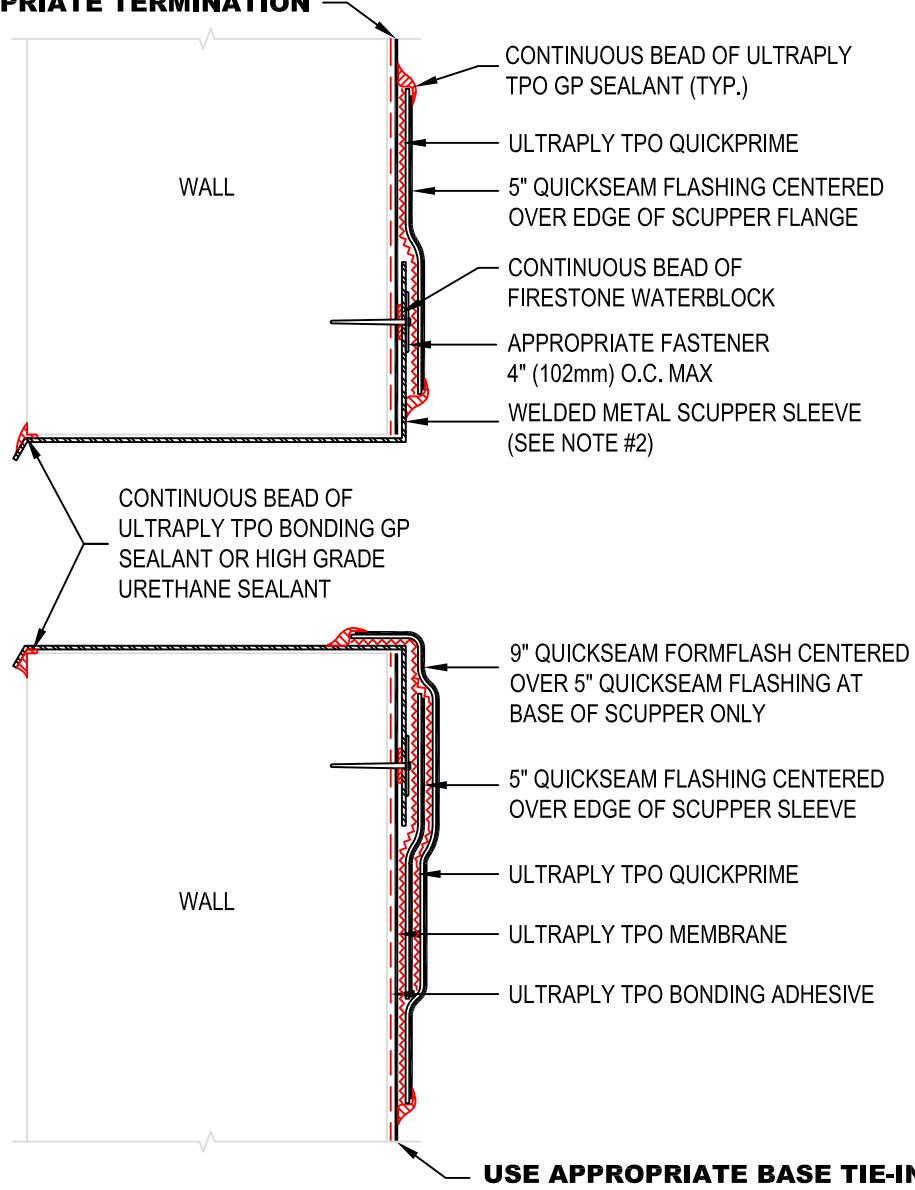
- NOTES:
1. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNERS OF SCUPPER.
 2. STEP #2 - STRIP IN ALL EXPOSED EDGES OF SCUPPER AS INDICATED WITH 5" QUICKSEAM FLASHING STARTING WITH SIDES OF SCUPPER.
 3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.
 4. SCUPPER MUST BE WELDED METAL SLEEVE WITH 3" (76 mm) FLANGE.



MAXIMUM WARRANTY: **15 YEARS**

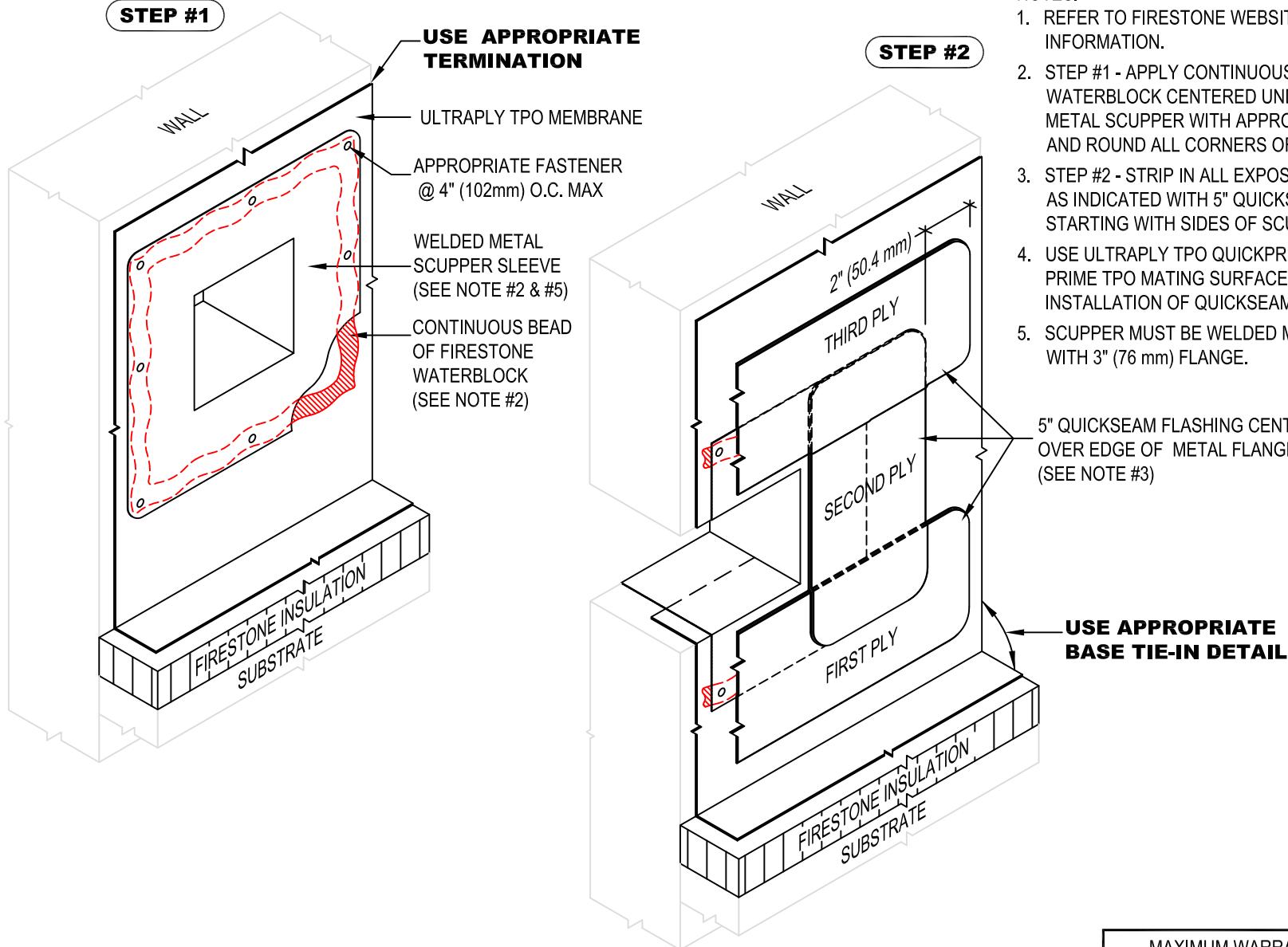


Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	THRU-WALL SCUPPER (WELDED SLEEVE) INSTALLATION STEPS 3 & 4	MAXIMUM WARRANTY: 15 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-S-1b
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

USE APPROPRIATE TERMINATION**NOTES:**

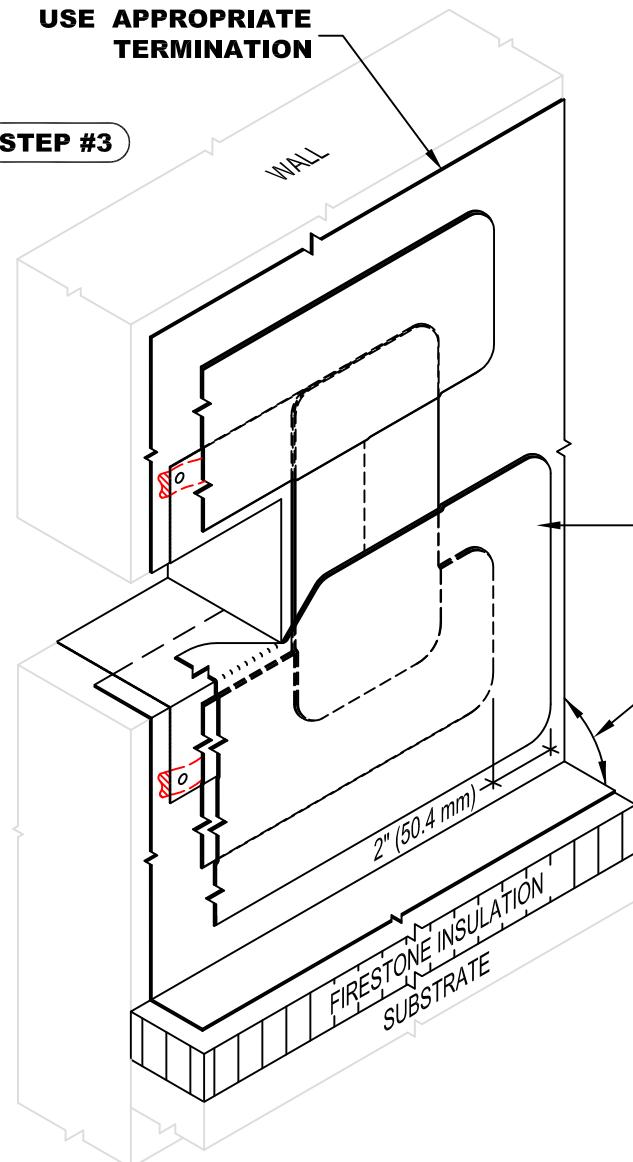
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. SCUPPER MUST BE WELDED METAL SLEEVE ROUND ALL SHEET METAL FLANGE CORNERS.
3. SEE UT-S-2a & UT-S-2b FOR DETAILED INSTALLATION INSTRUCTIONS.

MAXIMUM WARRANTY: **15 YEARS**



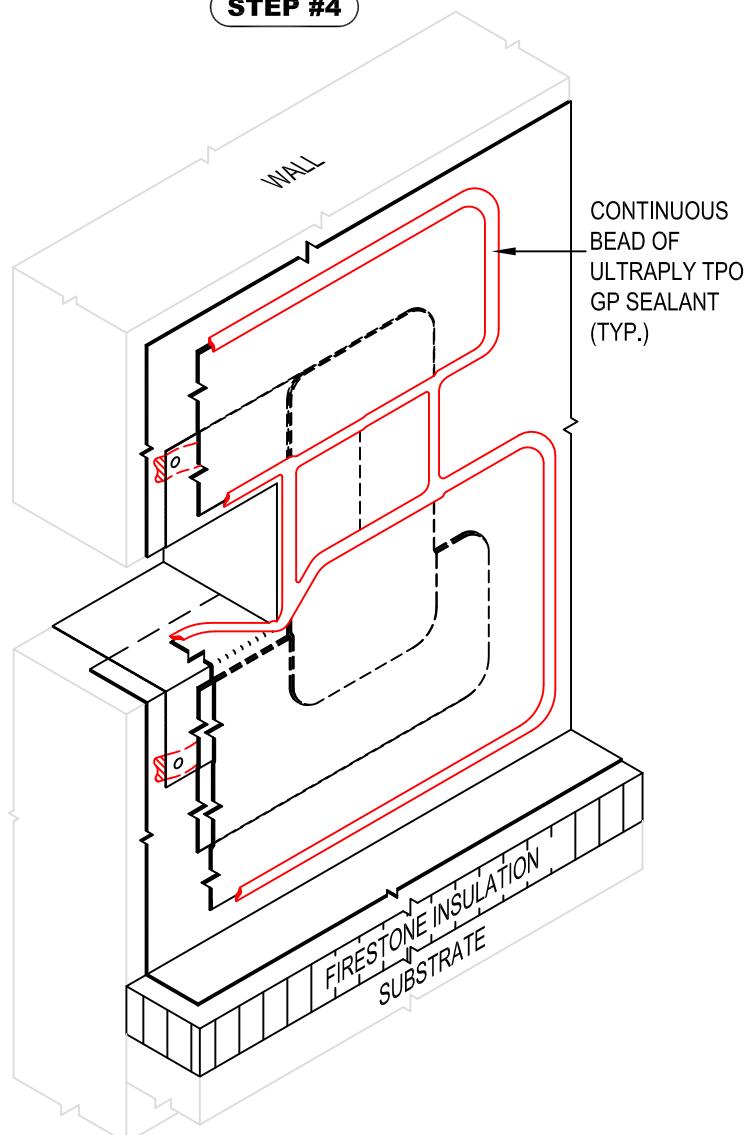
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNERS OF SCUPPER.
3. STEP #2 - STRIP IN ALL EXPOSED EDGES OF SCUPPER AS INDICATED WITH 5" QUICKSEAM FLASHING STARTING WITH SIDES OF SCUPPER.
4. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.
5. SCUPPER MUST BE WELDED METAL SLEEVE WITH 3" (76 mm) FLANGE.

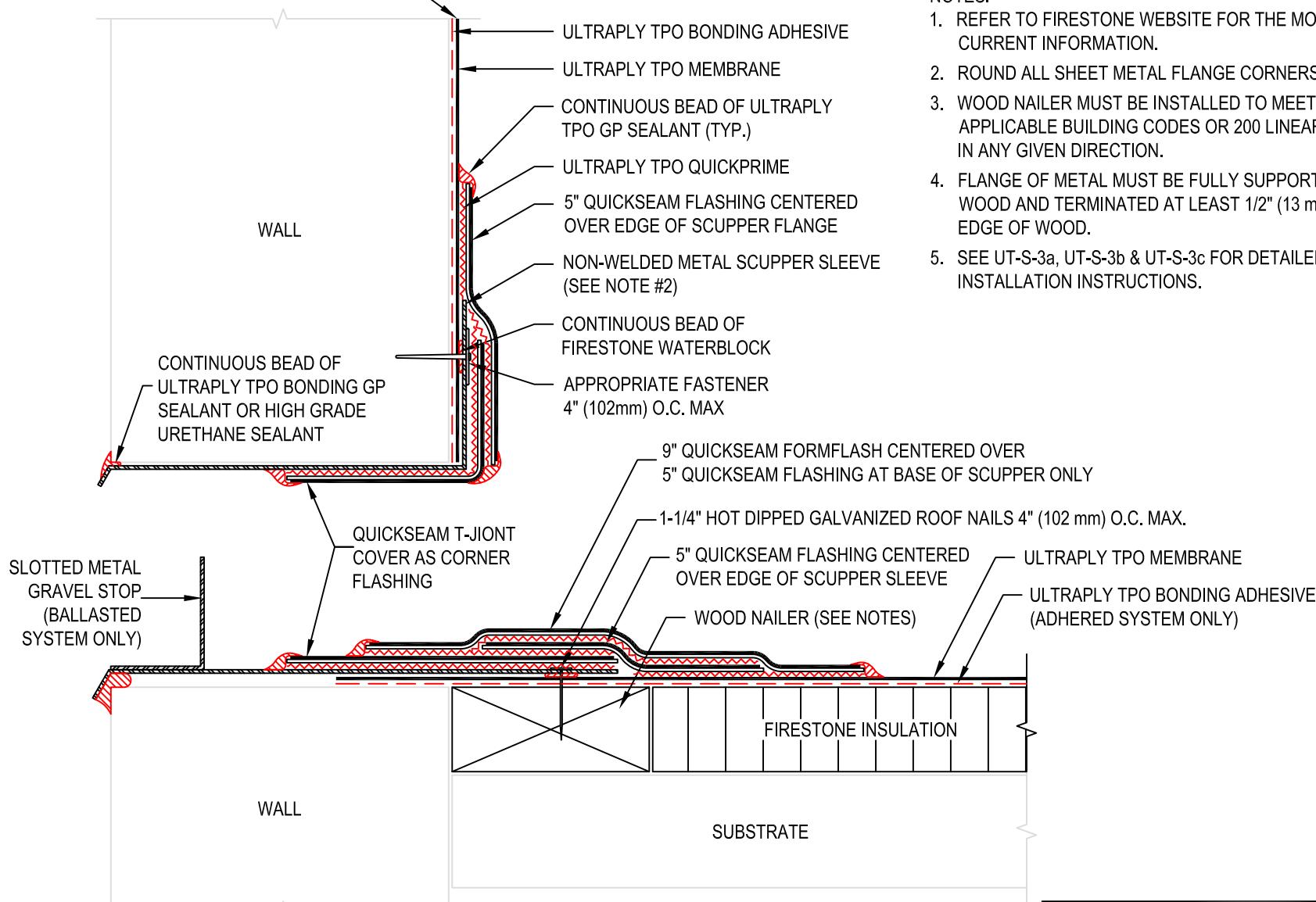
USE APPROPRIATE TERMINATION**STEP #3**

NOTES:

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

STEP #4

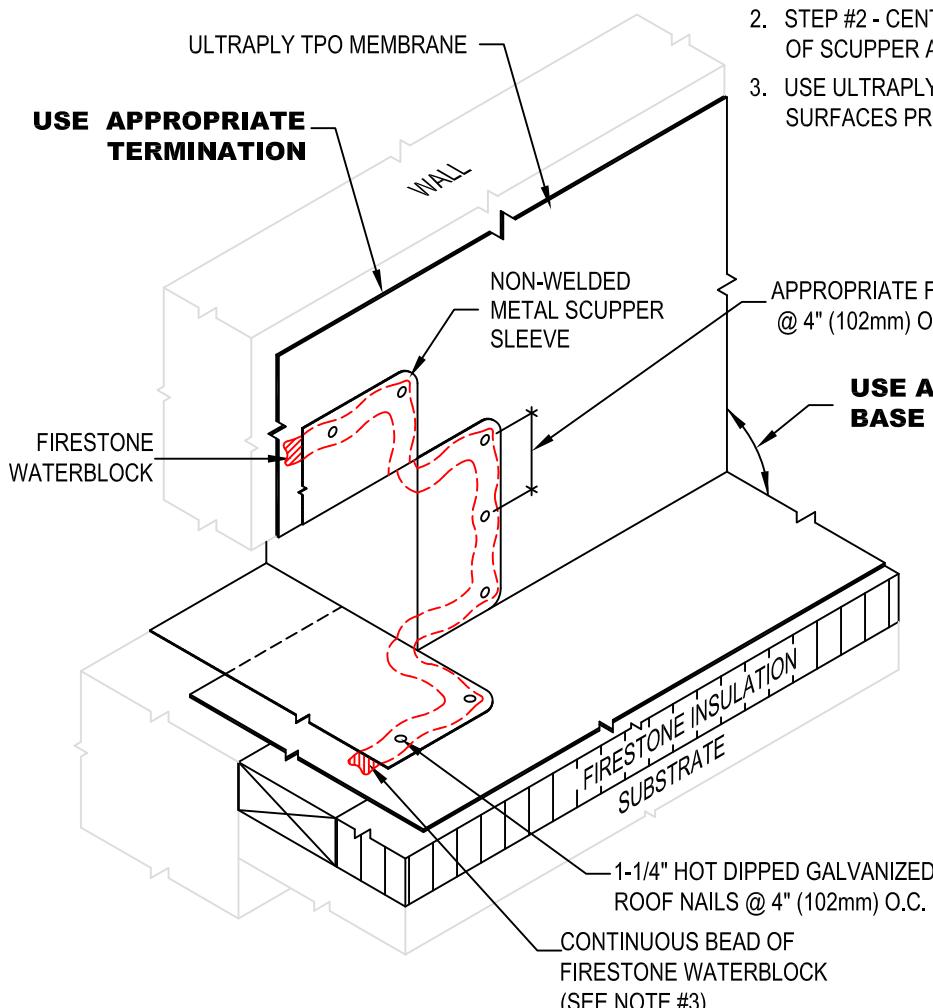
USE APPROPRIATE TERMINATION



NOTES:

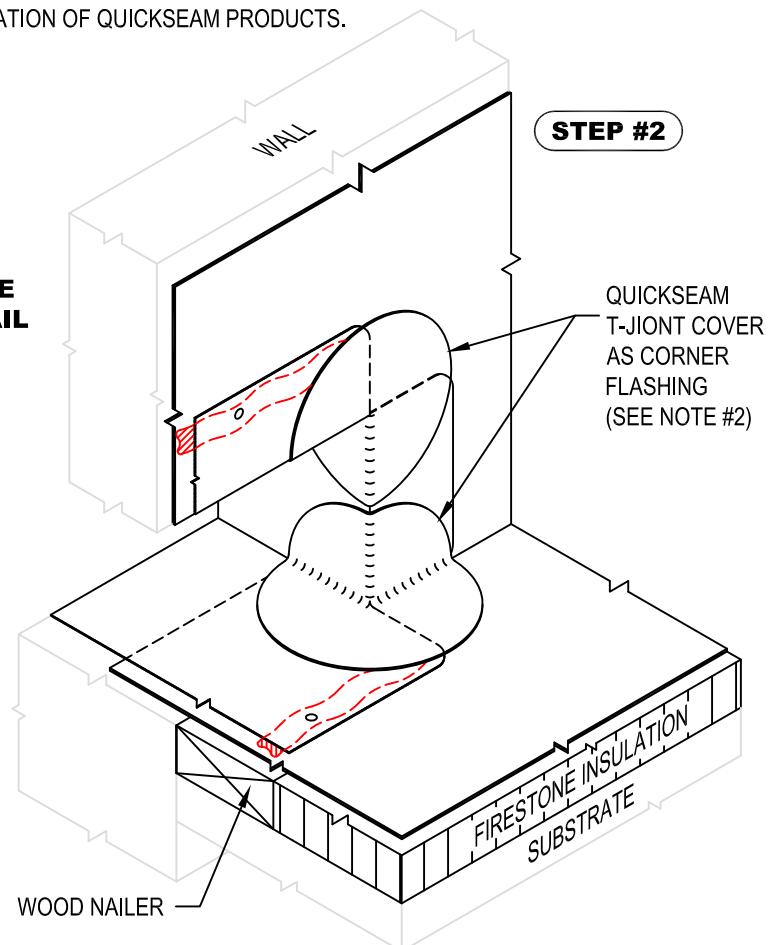
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. ROUND ALL SHEET METAL FLANGE CORNERS.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LINEAR 200 LBS IN ANY GIVEN DIRECTION.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
5. SEE UT-S-3a, UT-S-3b & UT-S-3c FOR DETAILED INSTALLATION INSTRUCTIONS.

MAXIMUM WARRANTY: **15 YEARS**



NOTES:

1. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNERS OF SCUPPER.
2. STEP #2 - CENTER QUICKSEAM T-JOINT COVER OVER ALL CORNERS OF SCUPPER AND WRAP T-JOINT COVER TIGHTLY AROUND CORNERS.
3. USE ULTRALITE TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.



MAXIMUM WARRANTY: **15 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	
--	--

**THRU-WALL SCUPPER (NON-WELDED SLEEVE)
INSTALLATION STEPS 1 & 2**

ULTRALITE™ TPO

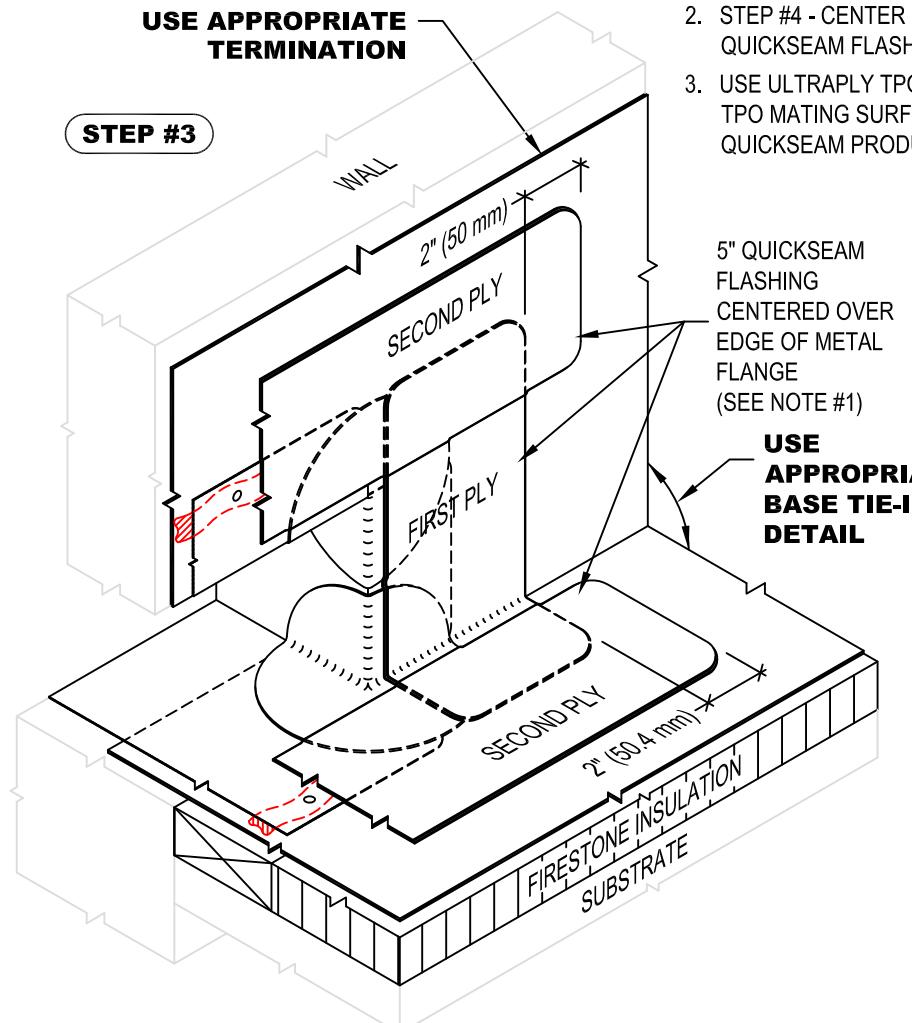
ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-S-3a

USE APPROPRIATE TERMINATION

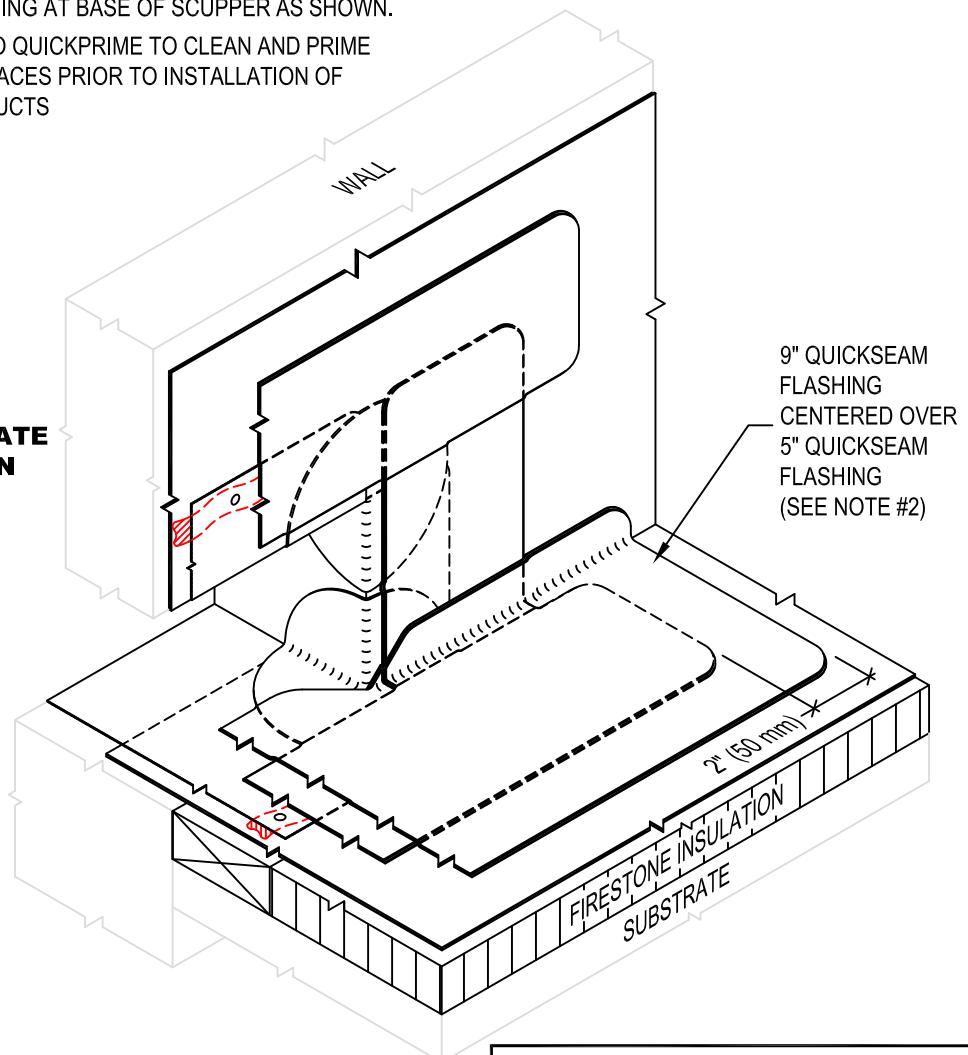
STEP #3



NOTES:

1. STEP #3 - STRIP IN ALL EXPOSED EDGES OF SCUPPER AS INDICATED WITH 5" QUICKSEAM FLASHING STARTING AT SIDES OF SCUPPER.
2. STEP #4 - CENTER STRIP OF 9" QUICKSEAM FORMFLASH OVER 5" QUICKSEAM FLASHING AT BASE OF SCUPPER AS SHOWN.
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS

STEP #4



MAXIMUM WARRANTY: **15 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

**THRU-WALL SCUPPER (NON-WELDED SLEEVE)
INSTALLATION STEPS 3 & 4**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

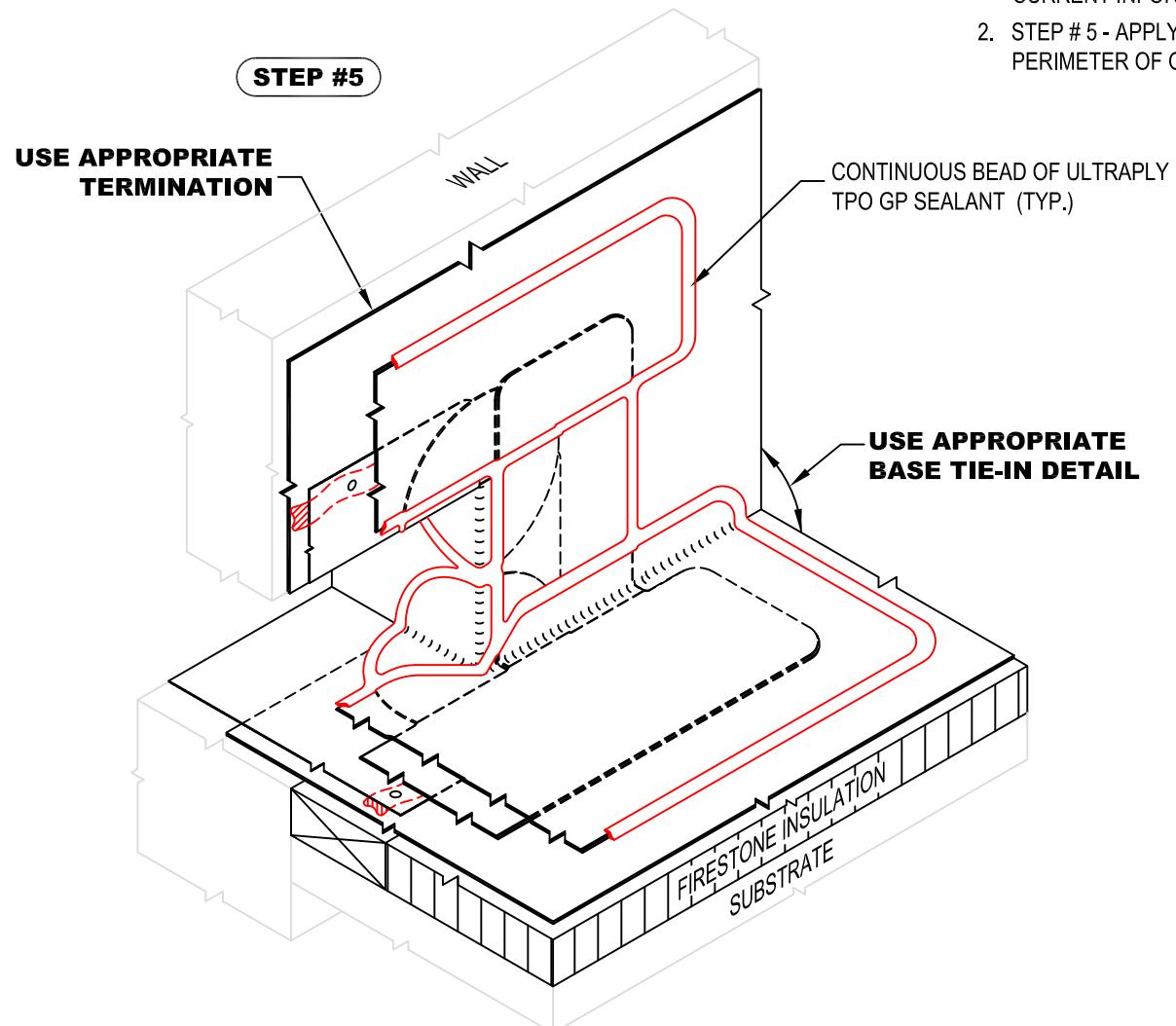
ISSUE / REVISION DATE:
7/22/2014

NOT TO SCALE

DETAIL NO.
UT-S-3b

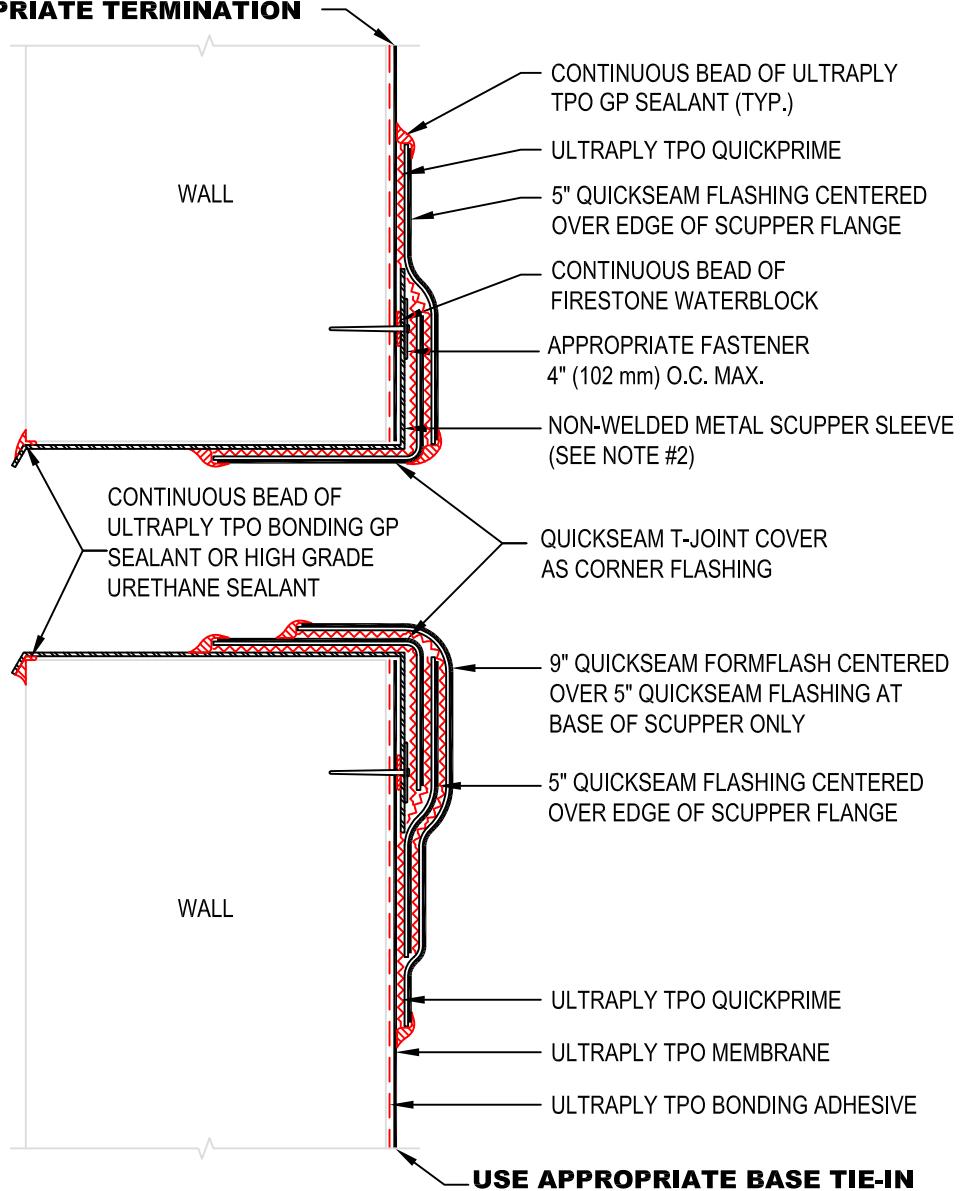
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. STEP #5 - APPLY ULTRAPLY TPO GP SEALANT TO PERIMETER OF QUICKSEAM FLASHING.



MAXIMUM WARRANTY: **15 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER. TM www.firestonebpc.com	THRU-WALL SCUPPER (NON-WELDED SLEEVE) INSTALLATION STEP 5	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-S-3c
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE

USE APPROPRIATE TERMINATION**NOTES:**

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. ROUND ALL SHEET METAL FLANGE CORNERS.
3. SEE UT-S-4a, UT-S-4b & UT-S-4c FOR DETAILED INSTALLATION INSTRUCTIONS.

USE APPROPRIATE BASE TIE-INMAXIMUM WARRANTY: **15 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpco.com

OVERFLOW THRU-WALL SCUPPER (NON-WELDED SLEEVE)

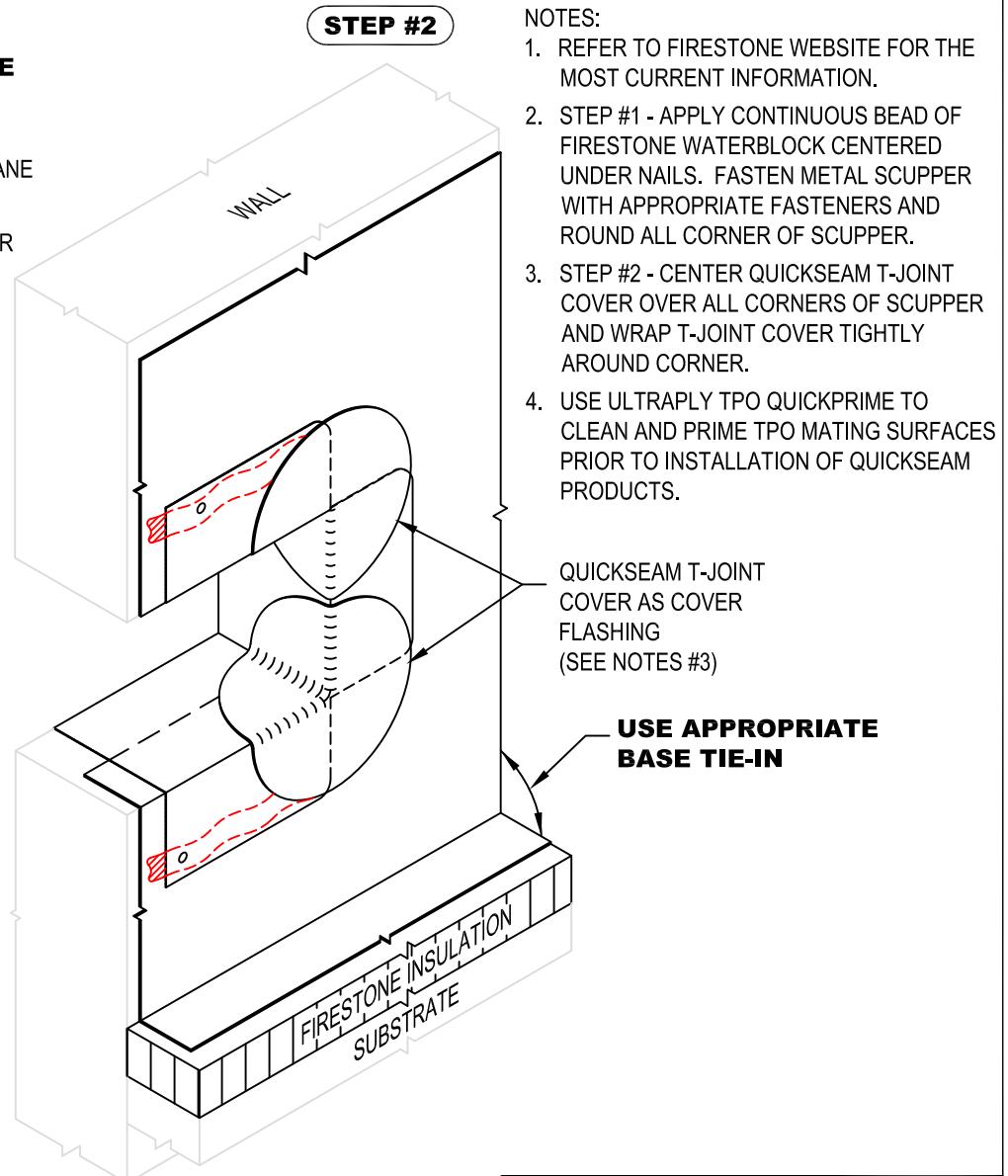
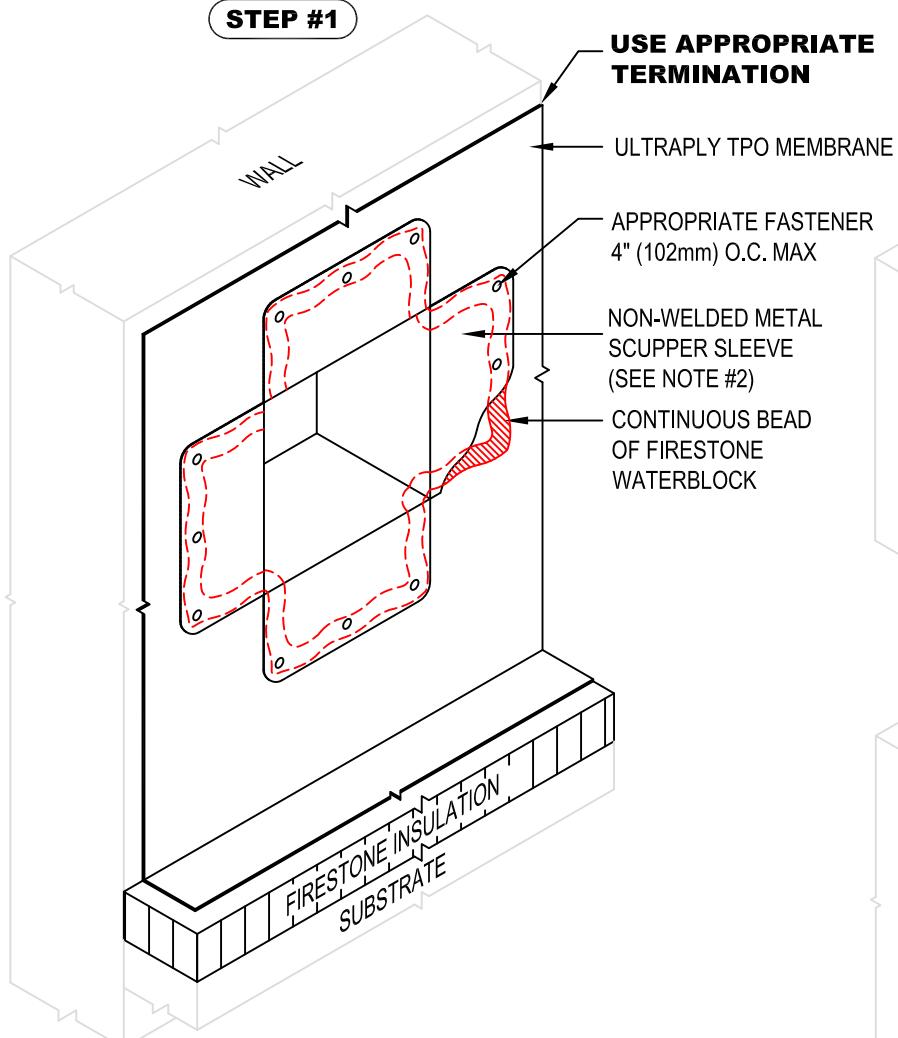
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/22/2014

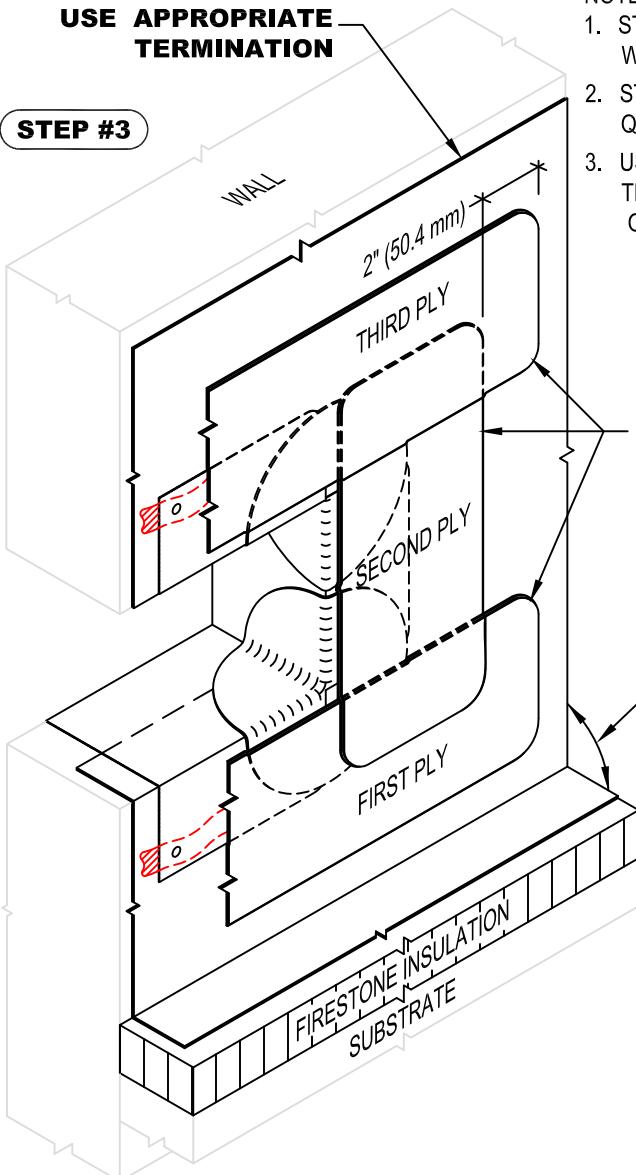
NOT TO SCALE

DETAIL NO.
UT-S-4



USE APPROPRIATE TERMINATION

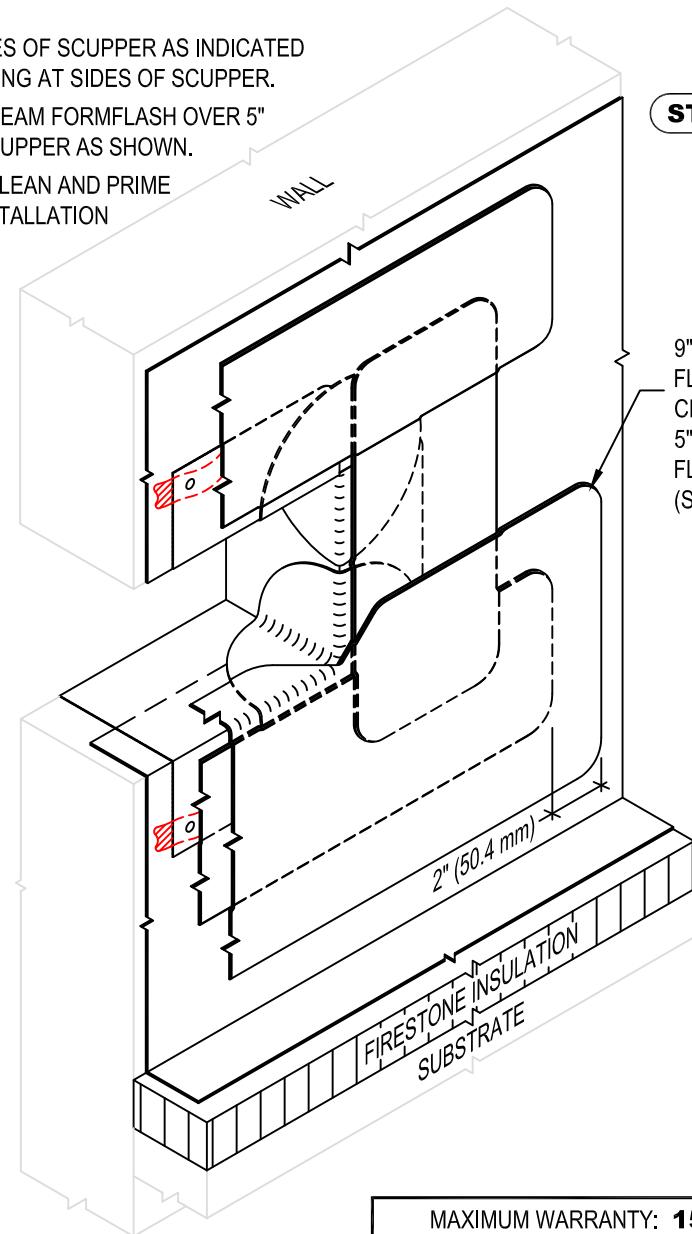
STEP #3



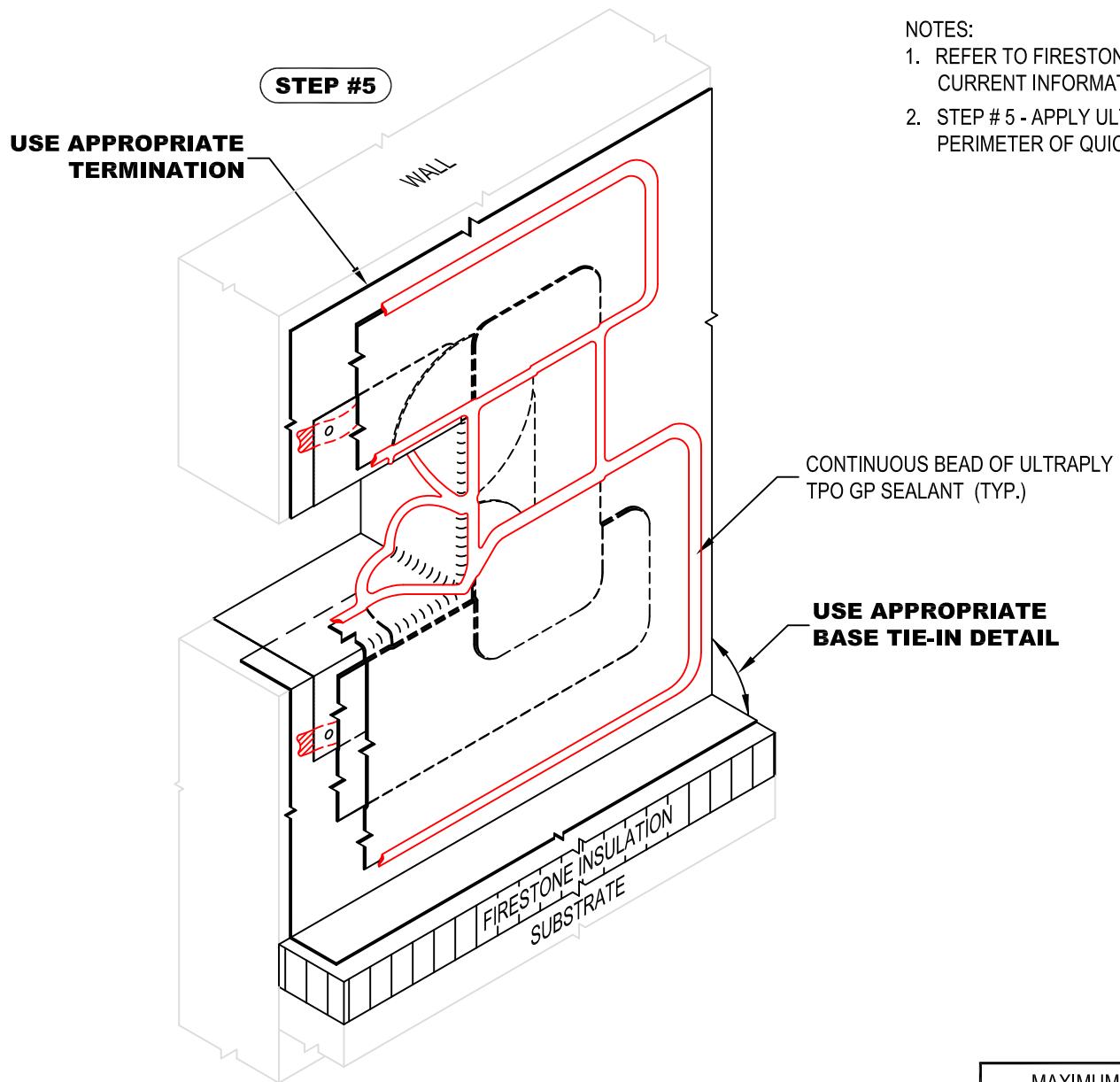
NOTES:

1. STEP #3 - STRIP IN ALL EXPOSED EDGES OF SCUPPER AS INDICATED WITH 5" QUICKSEAM FLASHING STARTING AT SIDES OF SCUPPER.
2. STEP #4 - CENTER STRIP OF 9" QUICKSEAM FORMFLASH OVER 5" QUICKSEAM FLASHING AT BASE OF SCUPPER AS SHOWN.
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS

STEP #4



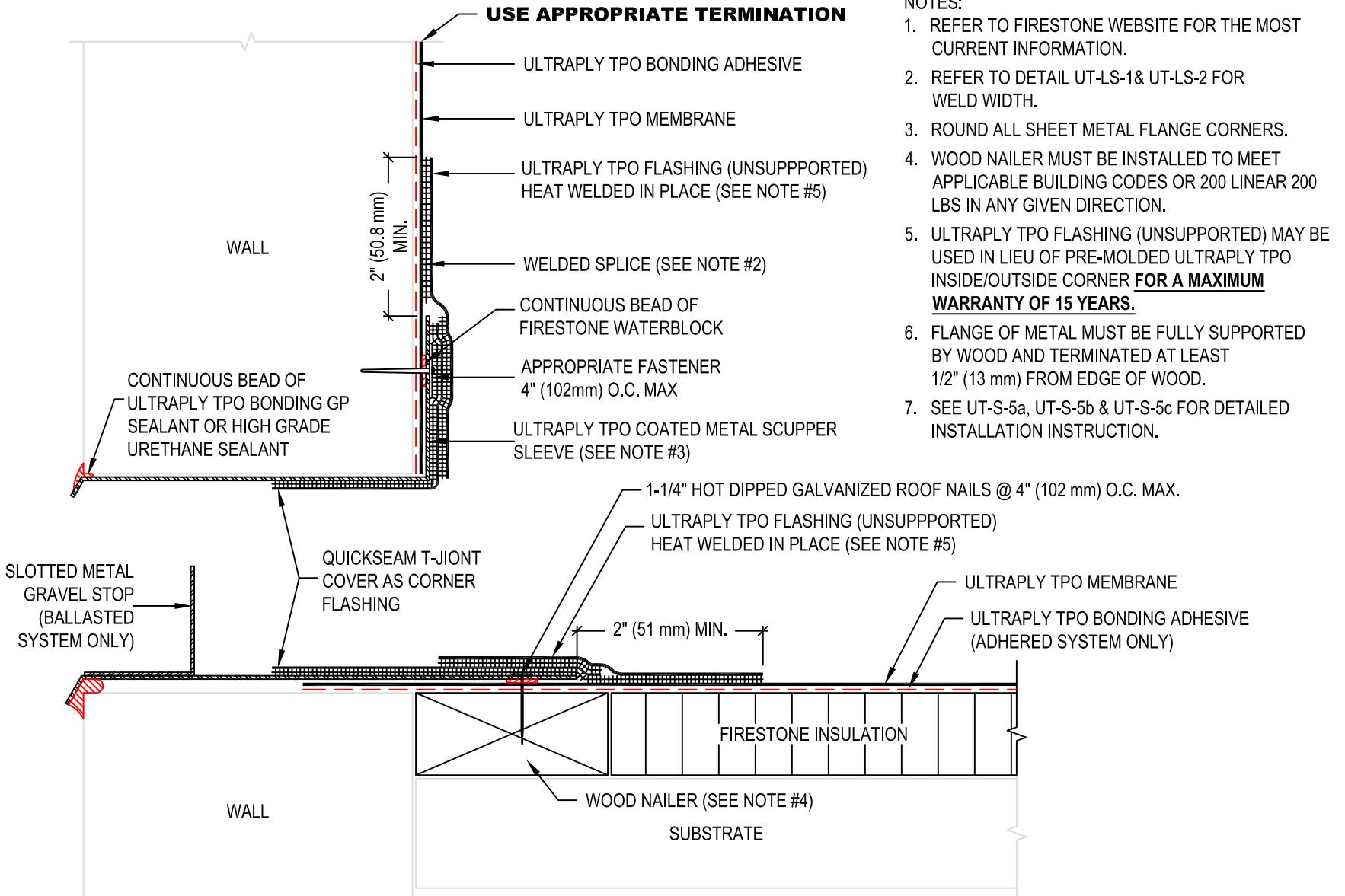
MAXIMUM WARRANTY: **15 YEARS**



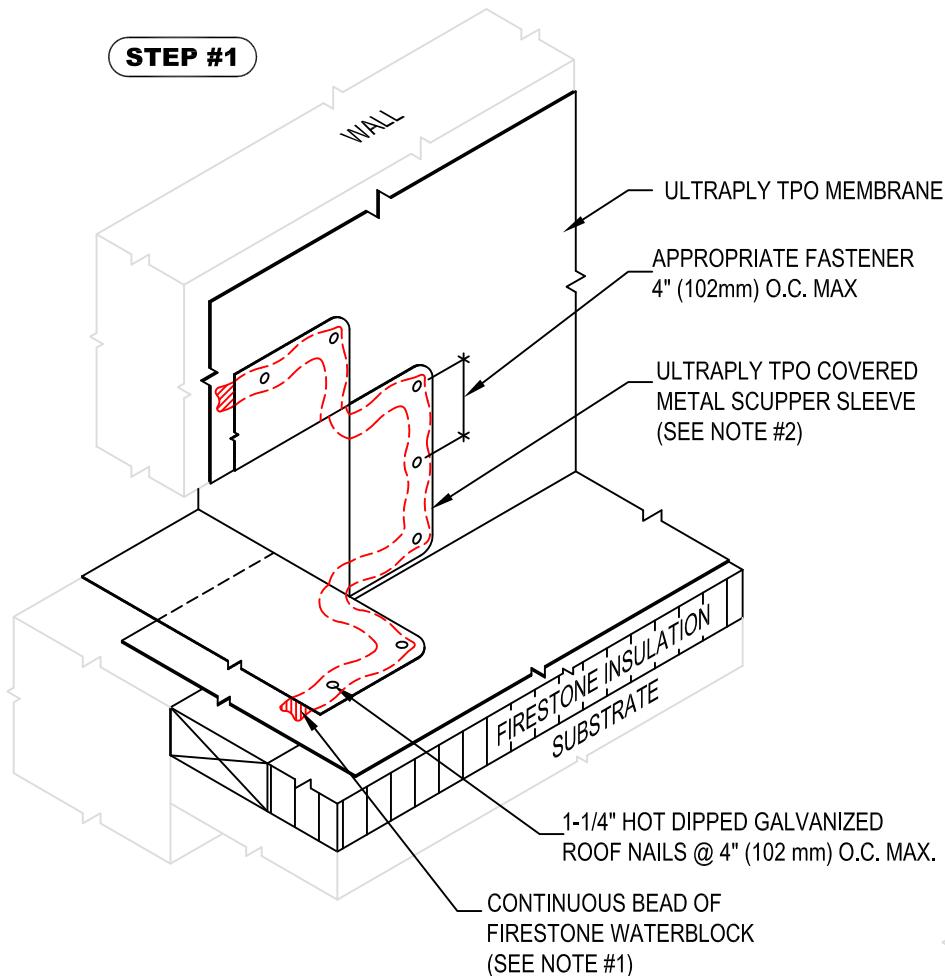
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. STEP # 5 - APPLY ULTRAPLY TPO GP SEALANT TO PERIMETER OF QUICKSEAM FLASHING.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	OVERFLOW THRU-WALL SCUPPER (NON-WELDED SLEEVE) INSTALLATION STEP 5	MAXIMUM WARRANTY: 15 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-S-4c
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



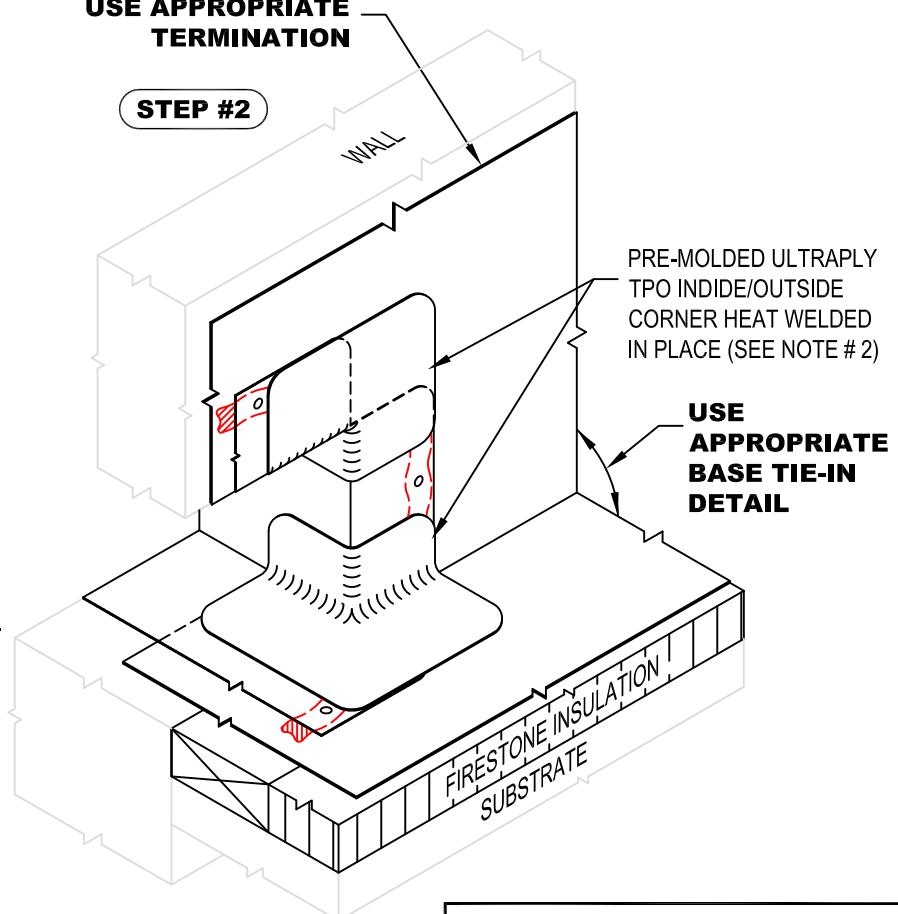
MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNER OF SCUPPER.
2. STEP #2 - STRIP IN ALL CORNERS OF SCUPPER AS INDICATED WITH PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNERS. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED CORNERS FOR MAXIMUM WARRANTY OF 15 YEARS.

**USE APPROPRIATE
TERMINATION**



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

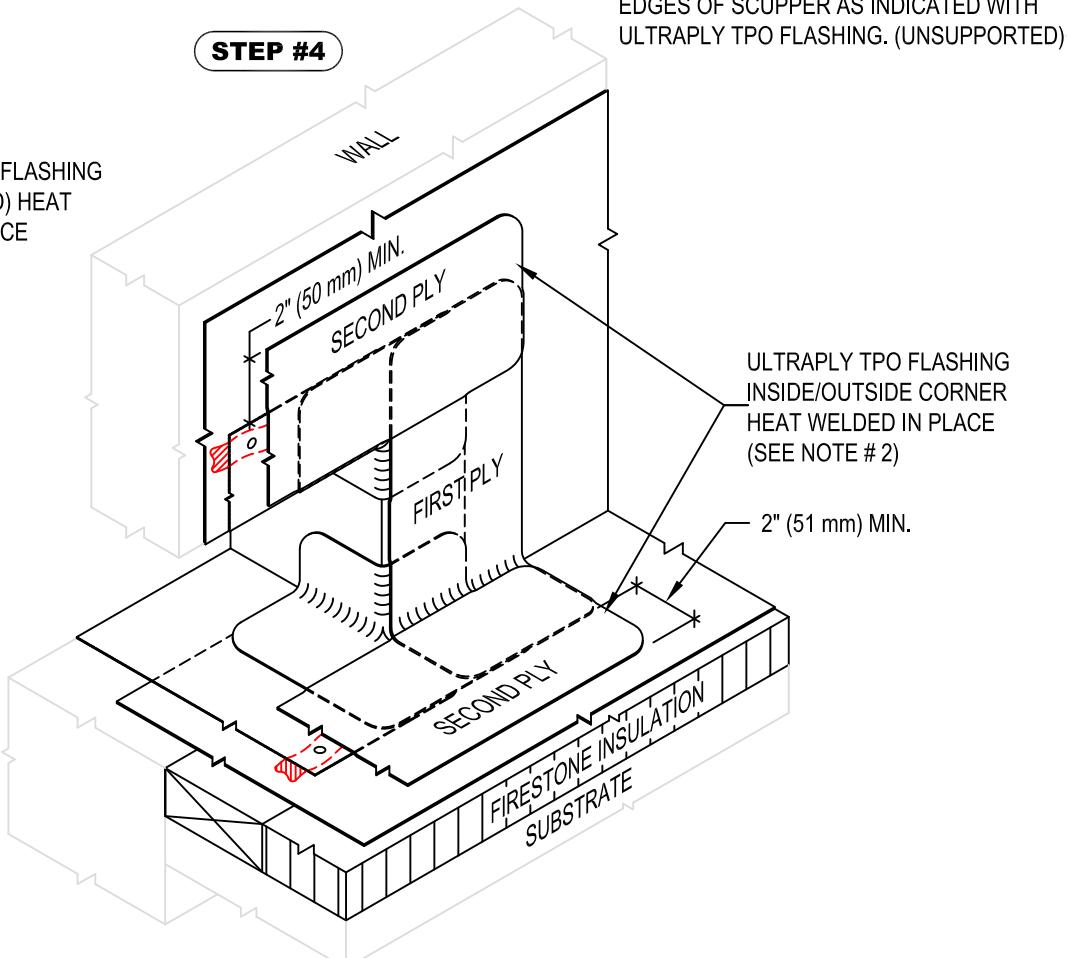
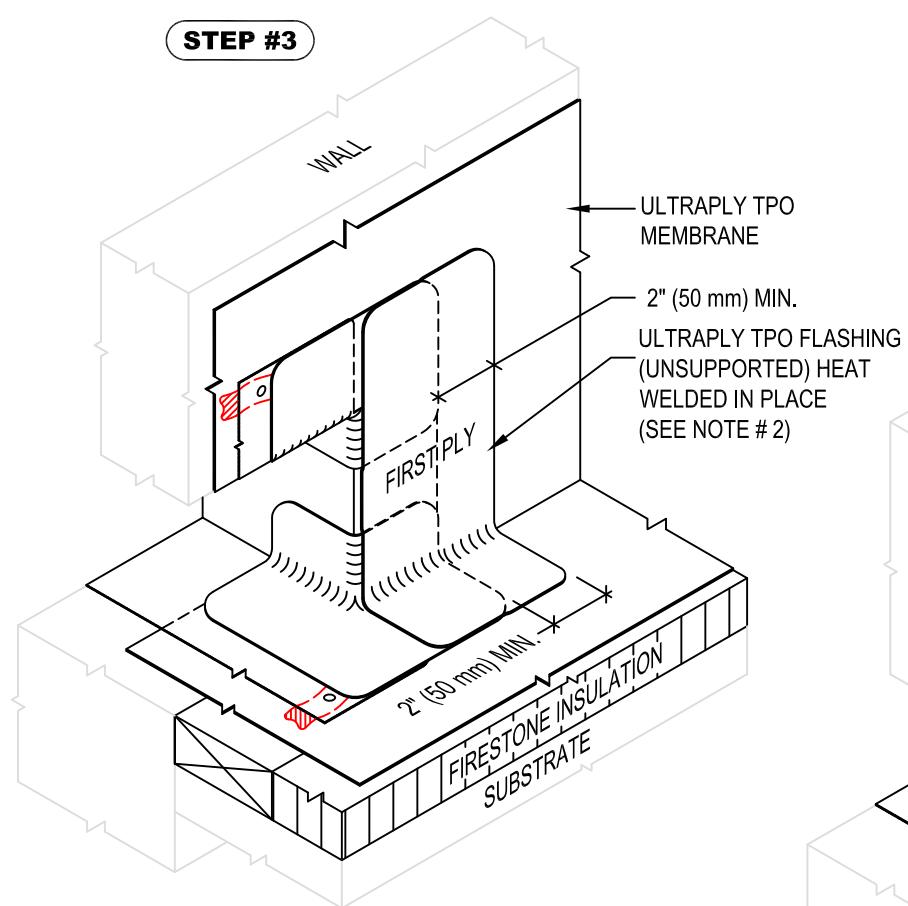
**THRU-WALL ULTRAPLY TPO COATED METAL SCUPPER
INSTALLATION STEPS 1 & 2**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

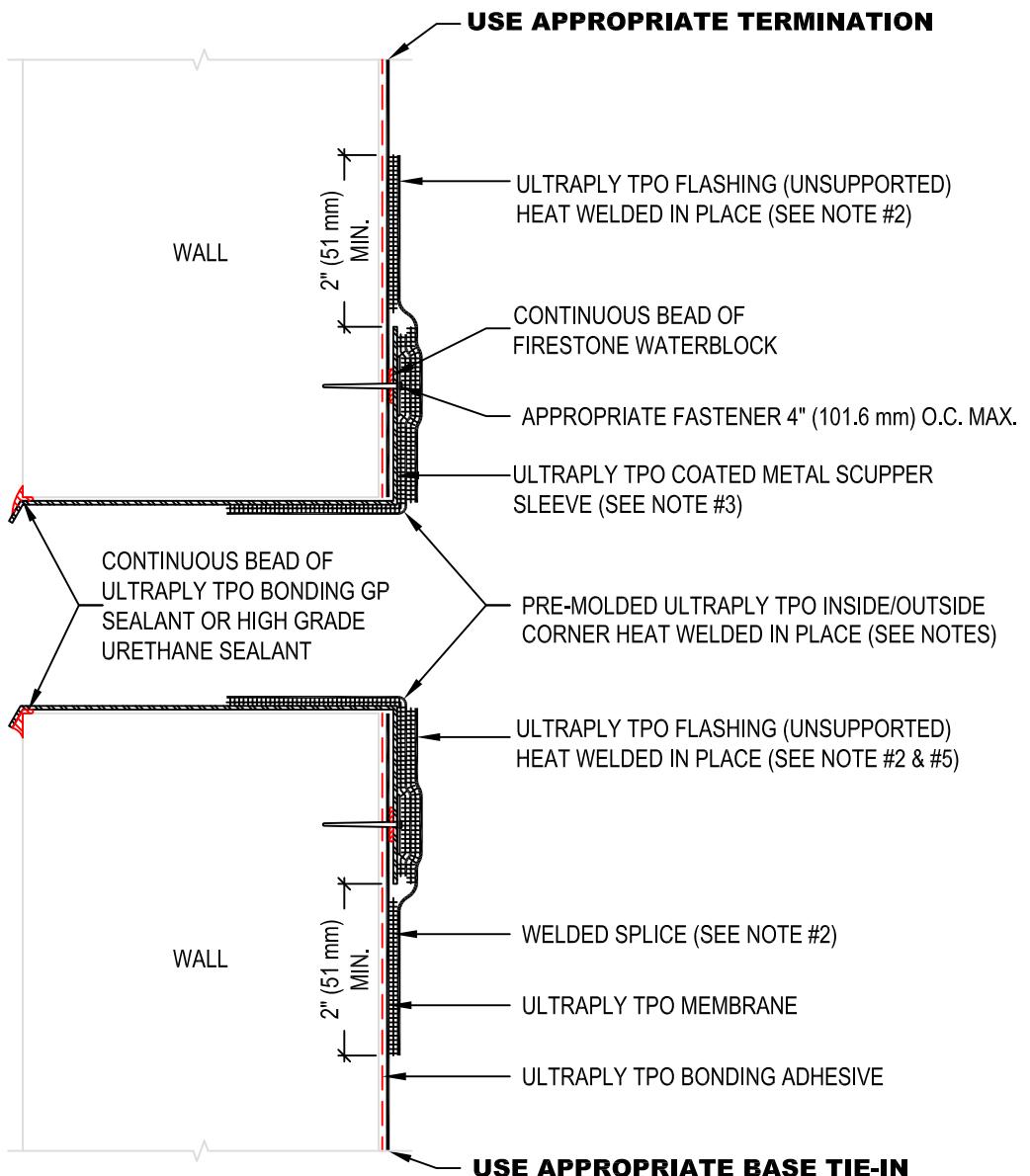
ISSUE / REVISION
DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-S-5a



NOTES:

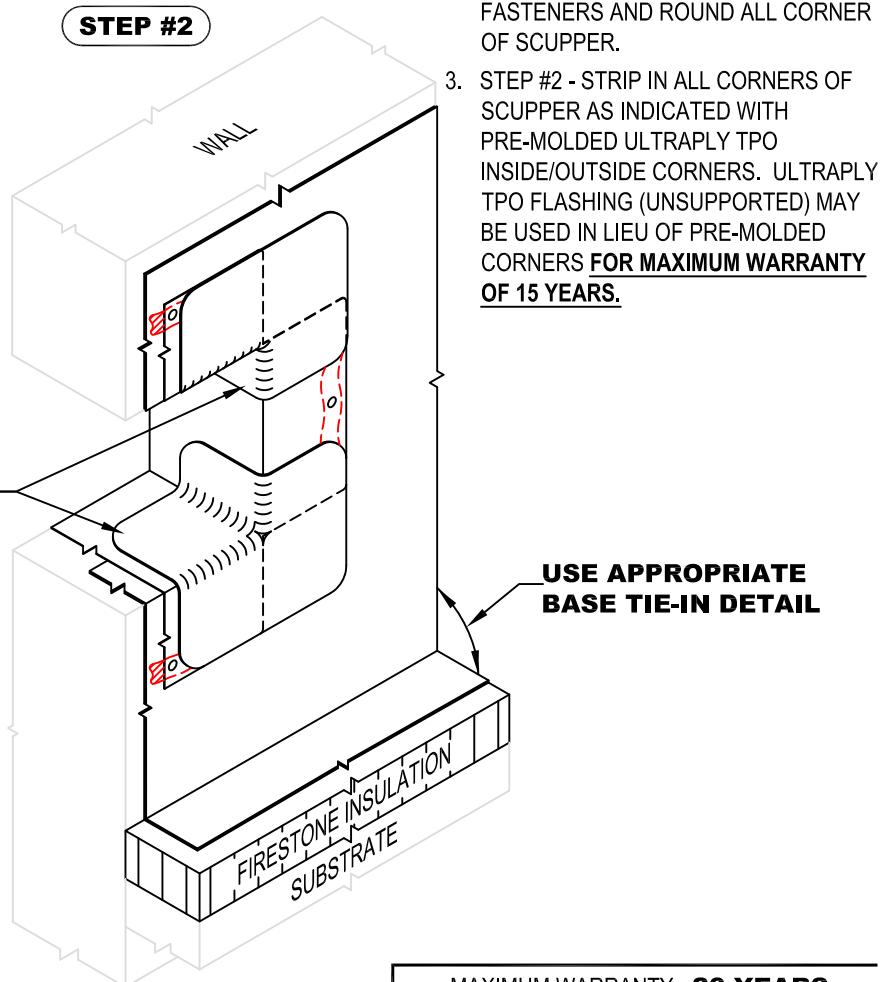
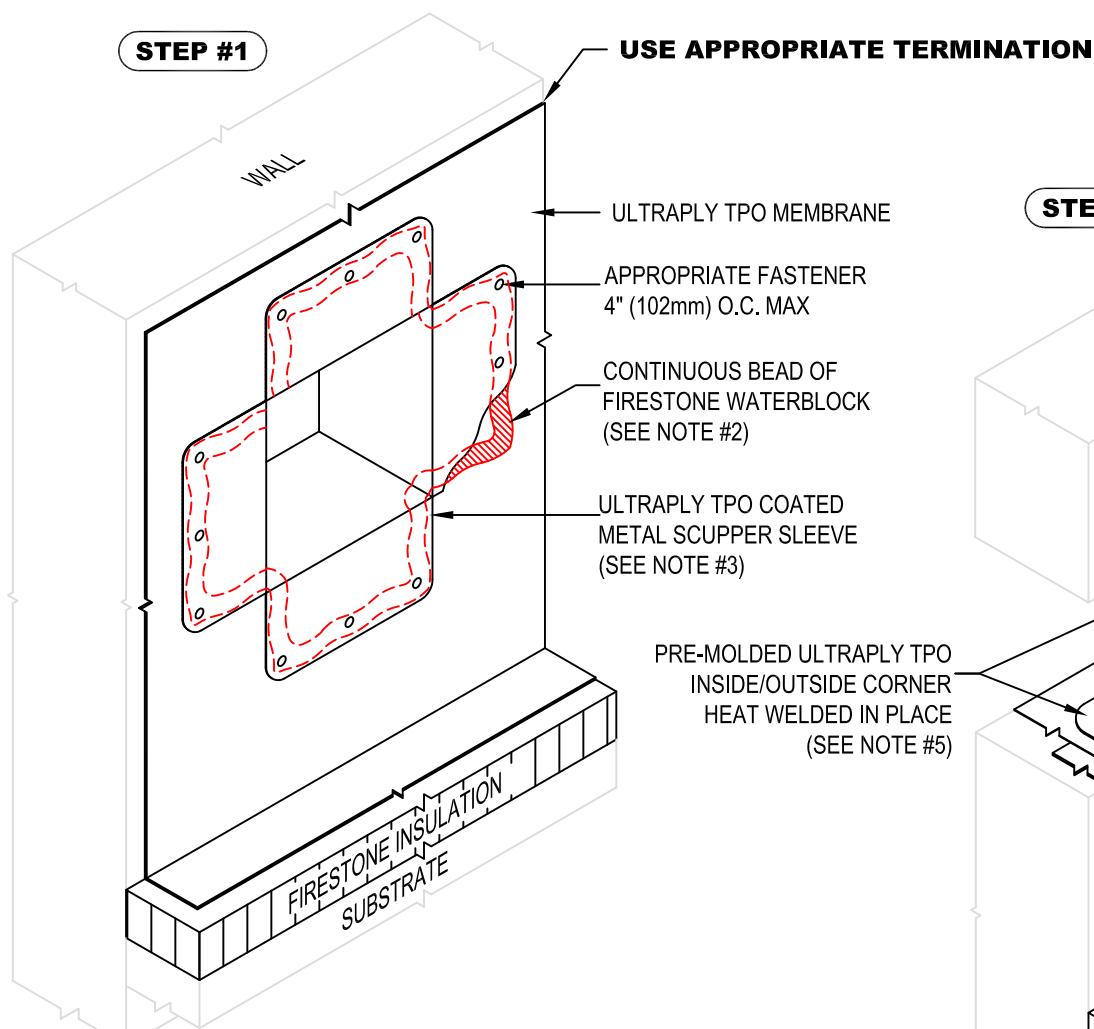
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. STEP #3 - STRIP IN ALL EXPOSED EDGES OF SCUPPER AS INDICATED WITH ULTRAPLY TPO FLASHING (UNSUPPORTED)
3. STEP #4 - STRIP IN TOP AND BOTTOM EDGES OF SCUPPER AS INDICATED WITH ULTRAPLY TPO FLASHING. (UNSUPPORTED)



NOTES:

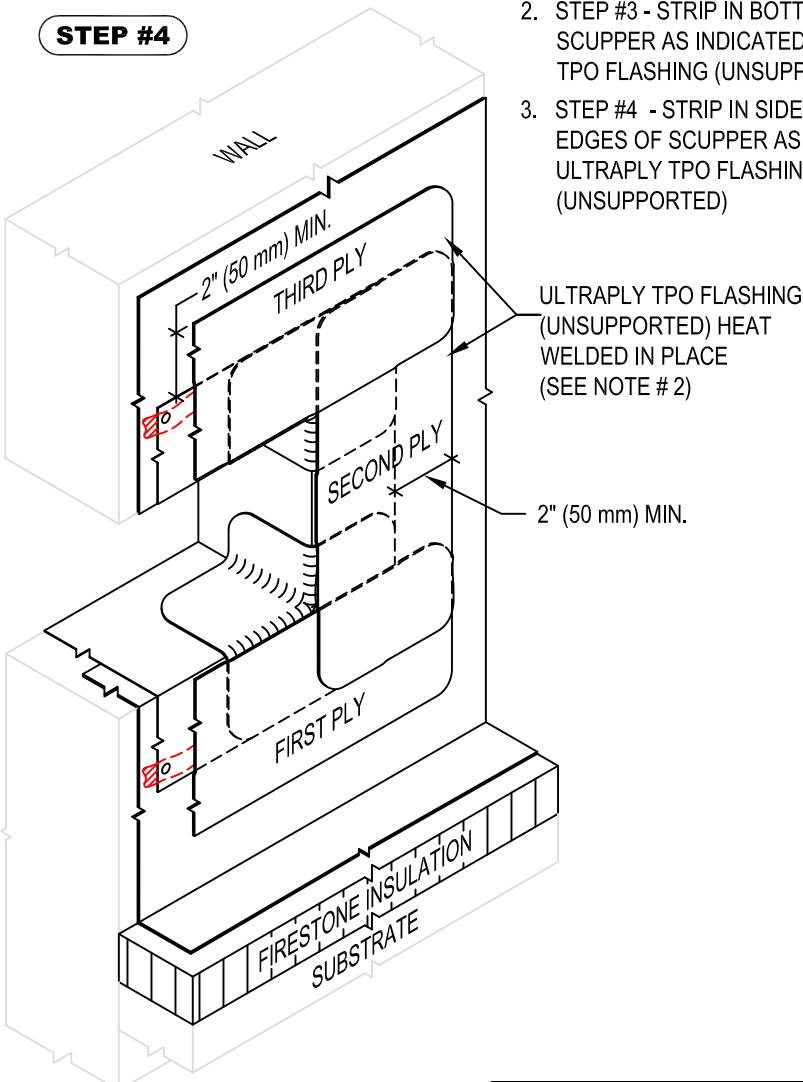
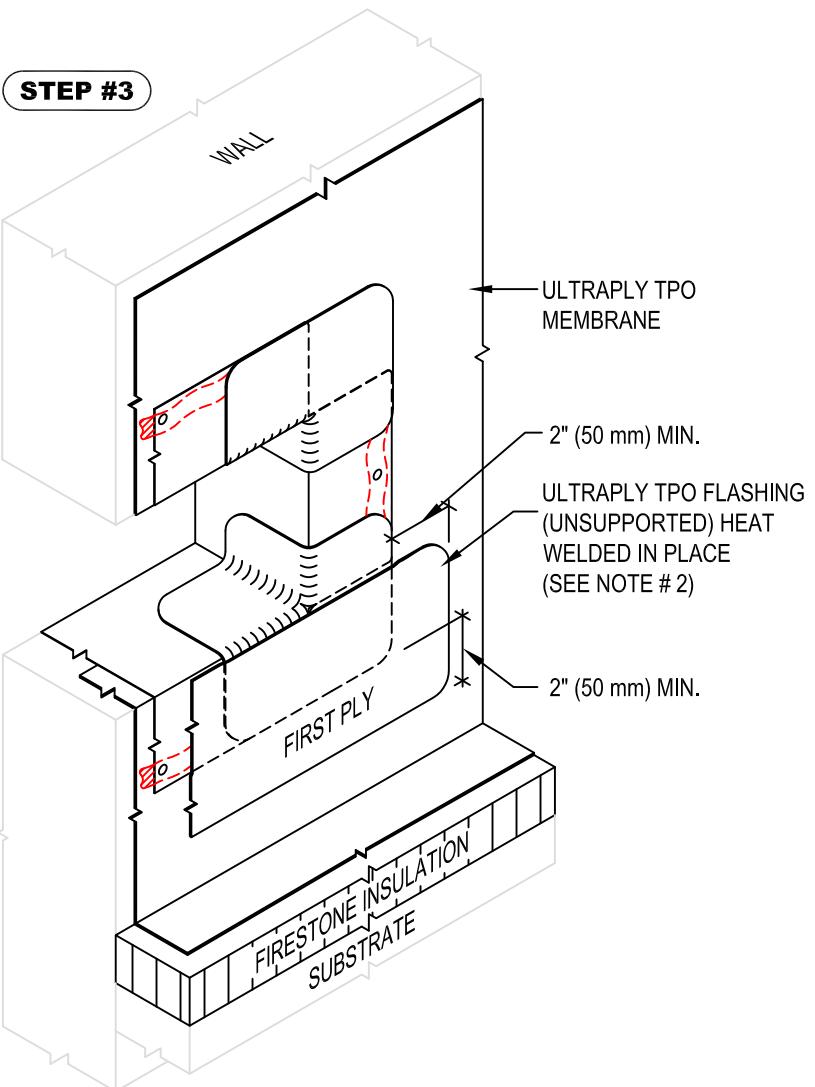
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-2 FOR WELD WIDTH.
3. ROUND ALL SHEET METAL FLANGE CORNERS.
4. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNER FOR A MAXIMUM WARRANTY OF 15 YEARS.
5. SEE UT-S-6a, UT-S-5b & UT-S-6c FOR DETAILED INSTALLATION INSTRUCTION.

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	OVERFLOW THRU-WALL ULTRAPLY TPO COATED METAL SCUPPER	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-S-6
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNER OF SCUPPER.
3. STEP #2 - STRIP IN ALL CORNERS OF SCUPPER AS INDICATED WITH PRE-MOLDED ULTRAPLY TPO INSIDE/OUTSIDE CORNERS. ULTRAPLY TPO FLASHING (UNSUPPORTED) MAY BE USED IN LIEU OF PRE-MOLDED CORNERS FOR MAXIMUM WARRANTY OF 15 YEARS.



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. STEP #3 - STRIP IN BOTTOM EDGE OF SCUPPER AS INDICATED WITH ULTRAPLY TPO FLASHING (UNSUPPORTED)
3. STEP #4 - STRIP IN SIDE EDGES AND TOP EDGES OF SCUPPER AS INDICATED WITH ULTRAPLY TPO FLASHING. (UNSUPPORTED)

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com
--

**OVERFLOW THRU-WALL ULTRAPLY TPO COATED
METAL SCUPPER INSTALLATION STEPS 3 & 4**

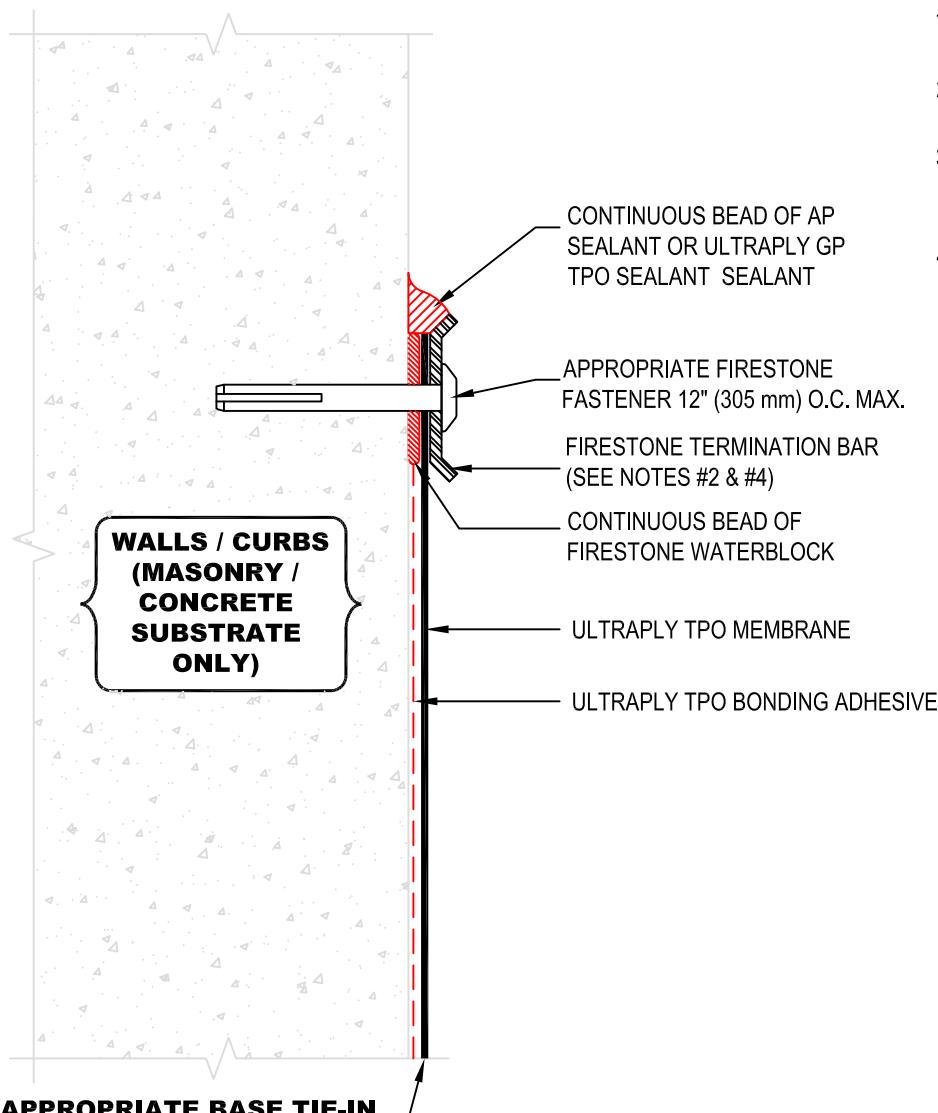
ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

DETAIL NO.
UT-S-6b



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL FIRESTONE TERMINATION BAR WITH $\frac{1}{4}$ " (6 mm) GAP BETWEEN ADJOINING SECTIONS.
3. TERMINATION BAR MUST BE CUT AT INSIDE AND INSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
4. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25 mm) MAX. OF ALL SECTION ENDS.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

TERMINATION WITH TERMINATION BAR

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: 20 YEARS

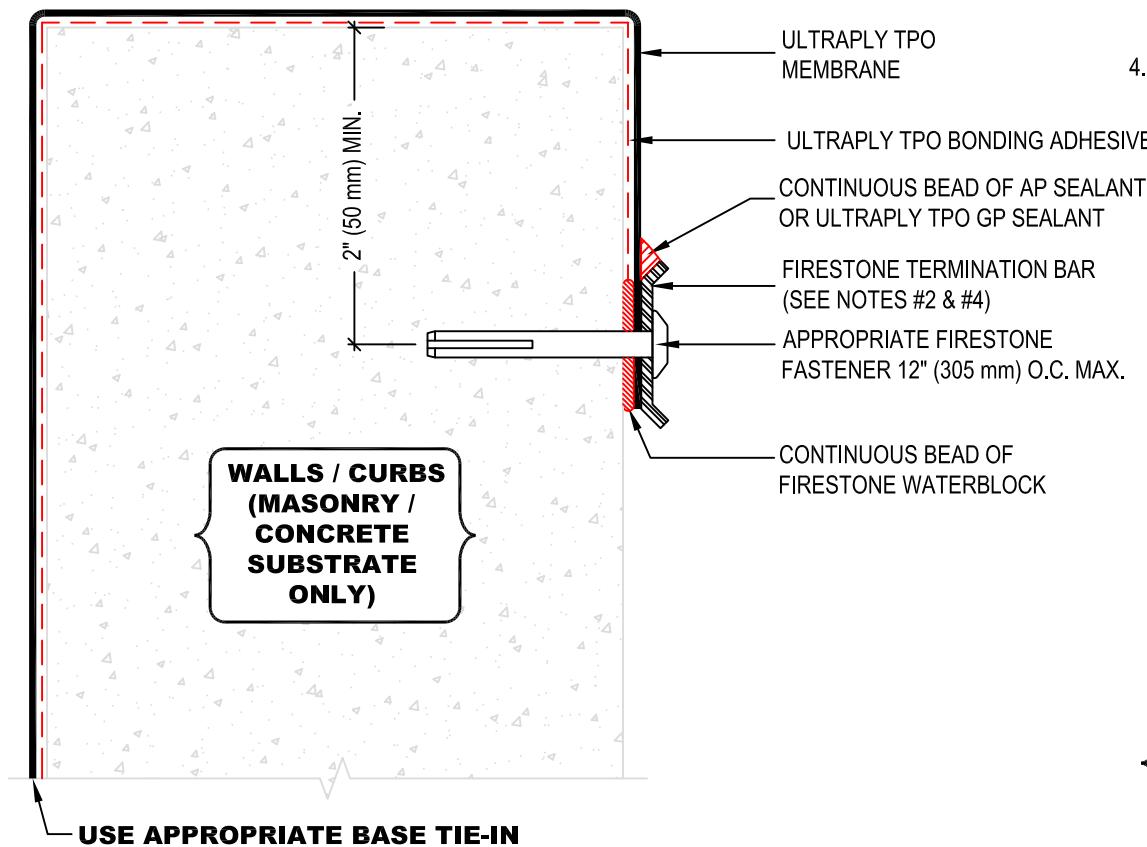
ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

DETAIL NO.
UT-T-1

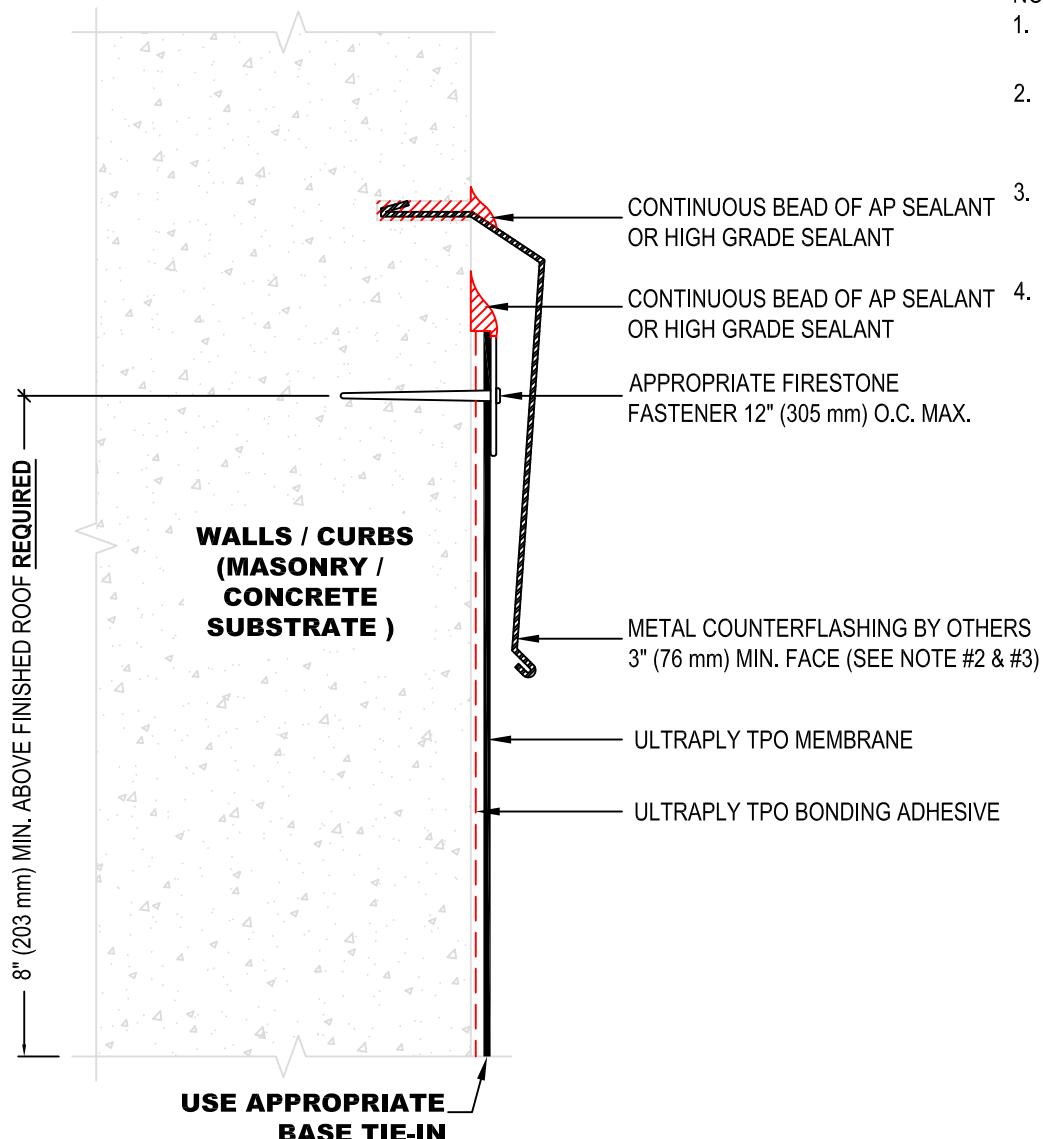
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. INSTALL FIRESTONE TERMINATION BAR WITH $1/4"$ (6 mm) GAP BETWEEN ADJOINING SECTIONS.
3. TERMINATION BAR MUST BE CUT AT INSIDE AND INSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
4. TERMINATION BAR MUST BE FASTENED WITHIN $1"$ (25 mm) MAX. OF ALL SECTION ENDS.



MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.TM www.firestonebpco.com	TERMINATION ON OUTSIDE OF PARAPET WALL WITH TERMINATION BAR	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-2
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



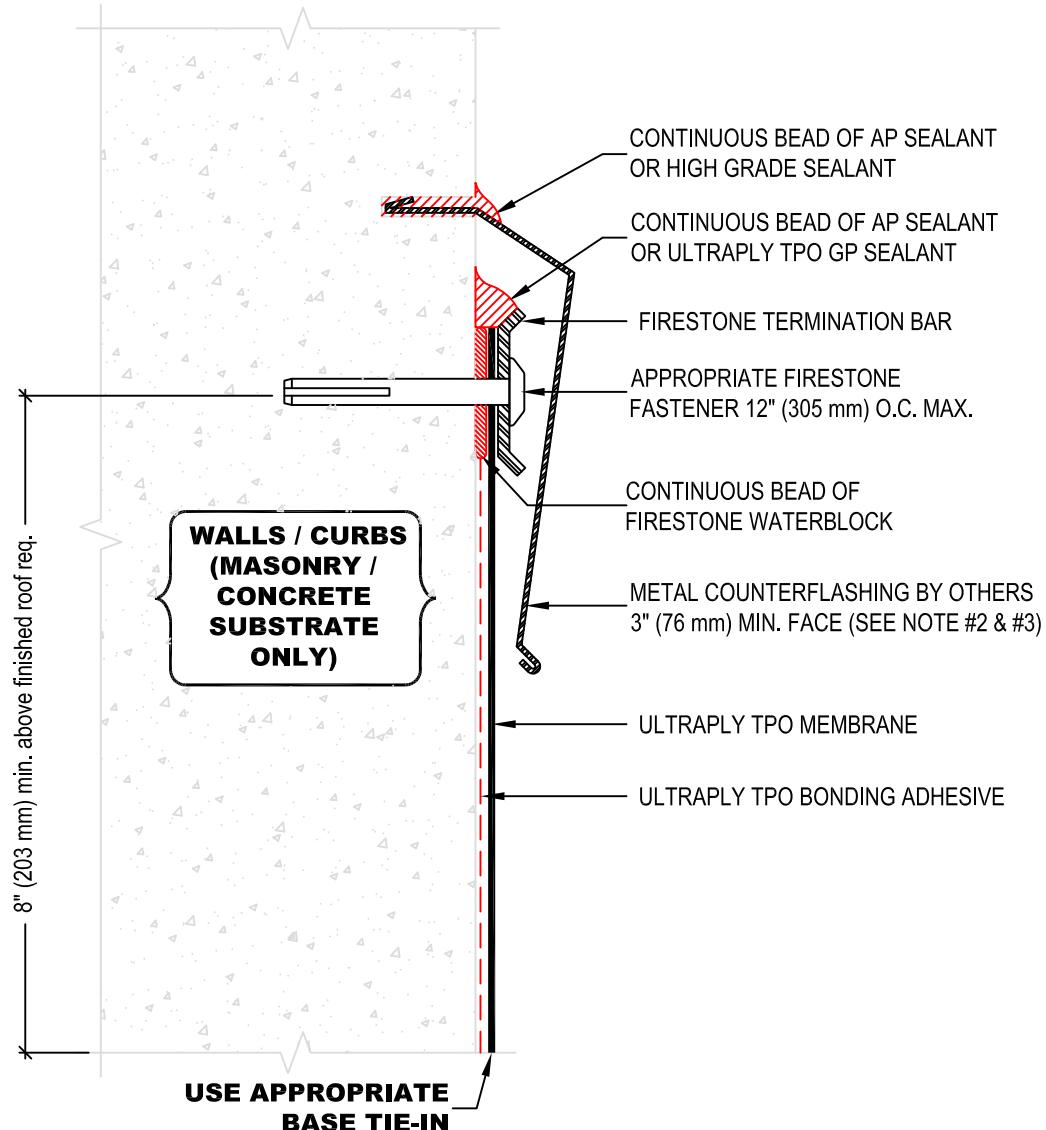
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION WITH REGLET COUNTERFLASHING		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-3
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		

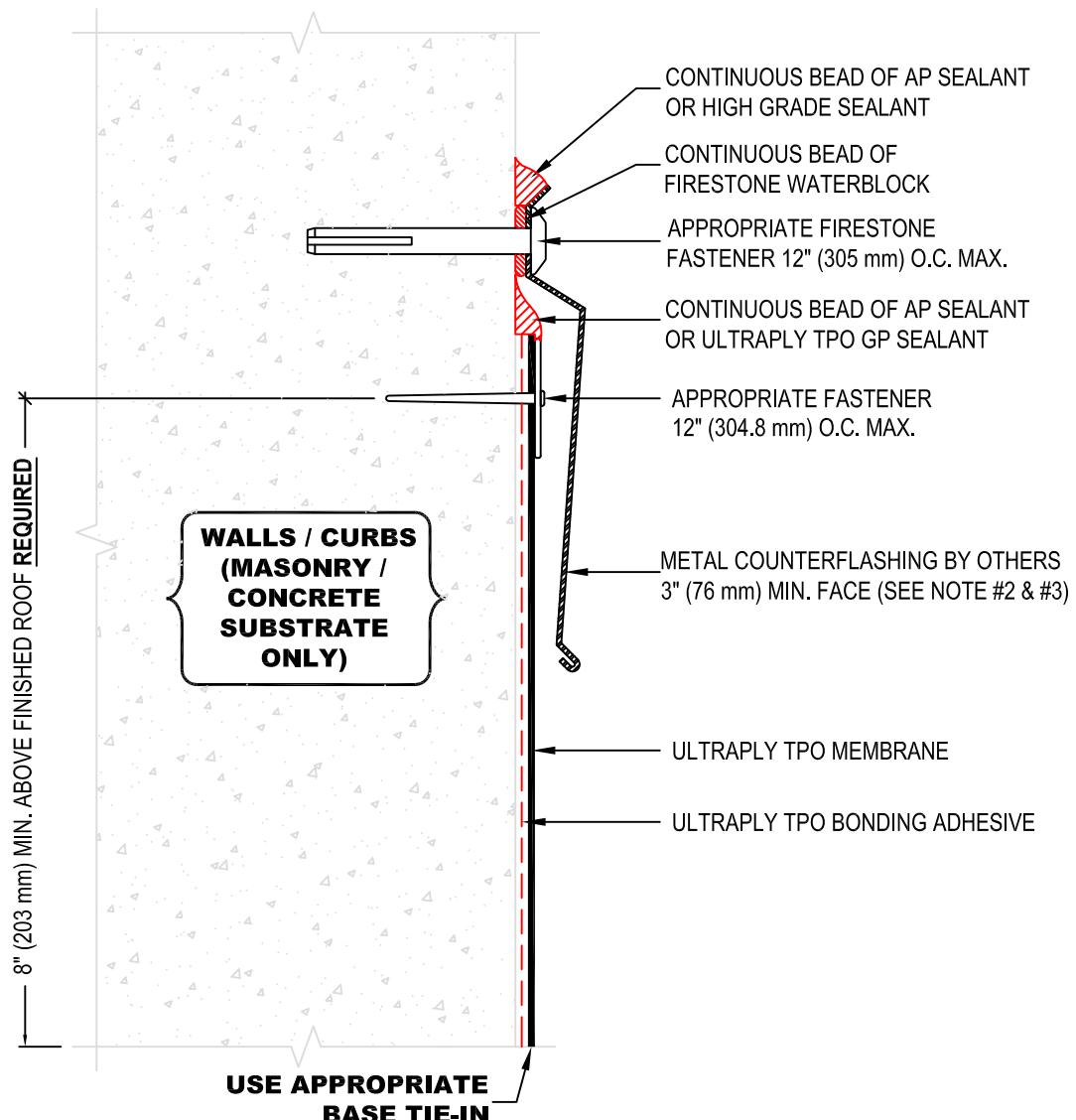


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6 mm) GAP BETWEEN ADJOINING SECTIONS.
5. TERMINATION BAR MUST BE CUT AT INSIDE AND INSIDE CORNERS.
DO NOT BEND AROUND CORNERS.
6. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25 mm) MAX. OF ALL SECTION ENDS.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

**MASONRY AND CONCRETE
WALLS / CURBS MUST BE
WATERPROOFED AND
MAINTAINED IN ORDER
FOR ANY SURFACE
MOUNTED TERMINATION
TO BE EFFECTIVE**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	TERMINATION WITH REGLET COUNTERFLASHING AND TERMINATION BAR	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-4
ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE	

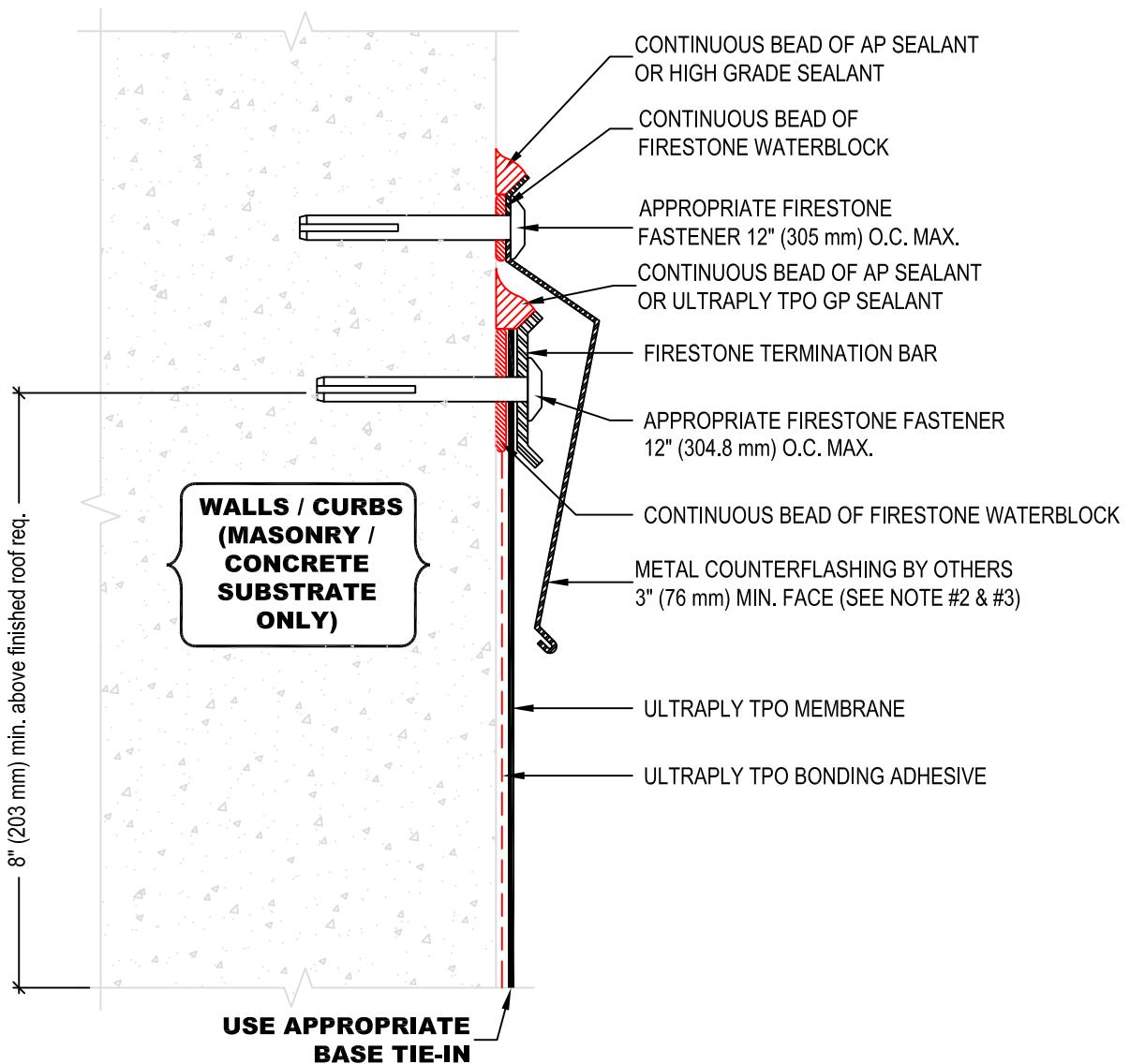


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE

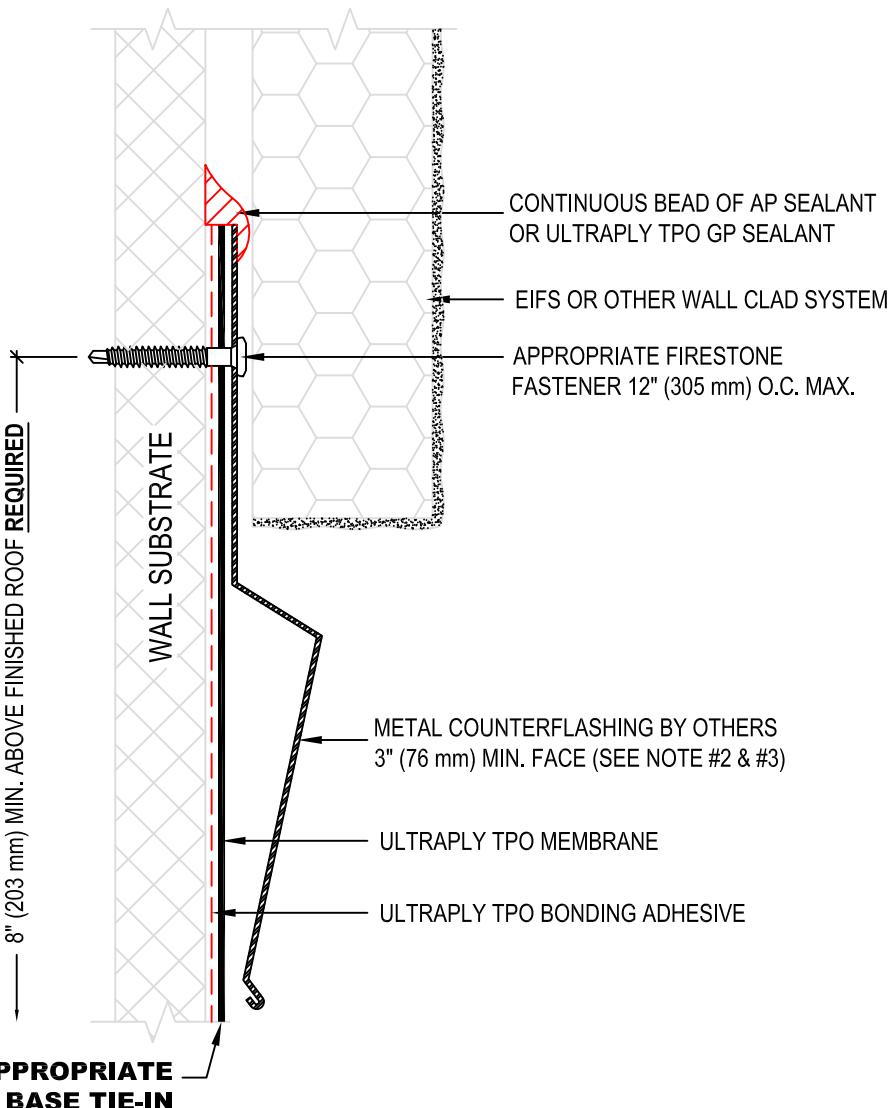
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION WITH SURFACE MOUNTED COUNTERFLASHING	ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-5
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL	NOT TO SCALE



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6 mm) GAP BETWEEN ADJOINING SECTIONS.
5. TERMINATION BAR MUST BE CUT AT INSIDE AND INSIDE CORNERS.
DO NOT BEND AROUND CORNERS.
6. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25 mm) MAX. OF ALL SECTION ENDS.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

**MASONRY AND CONCRETE
WALLS / CURBS MUST BE
WATERPROOFED AND
MAINTAINED IN ORDER
FOR ANY SURFACE
MOUNTED TERMINATION
TO BE EFFECTIVE**



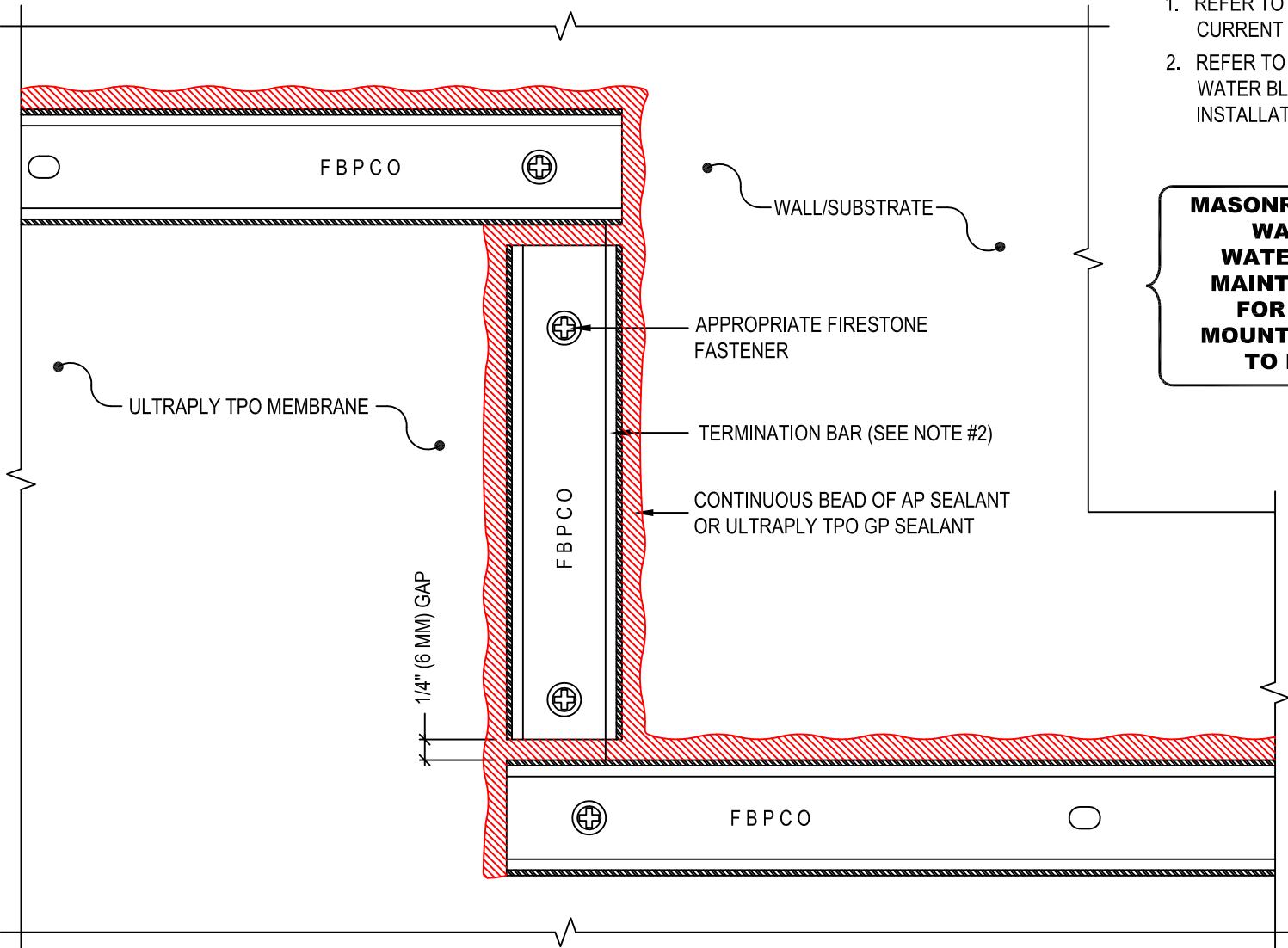
NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

WALL SYSTEM MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION AT EIFS OR WALL CLADDING		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-7
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO UT-T-1 FOR APPLICATION OF WATER BLOCK AND TERMINATION BAR INSTALLATION SPECIFICATIONS.

MASONRY AND CONCRETE WALLS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

TERMINATION WITH BAR - ELEVATION CHANGE

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE:
7/22/2014

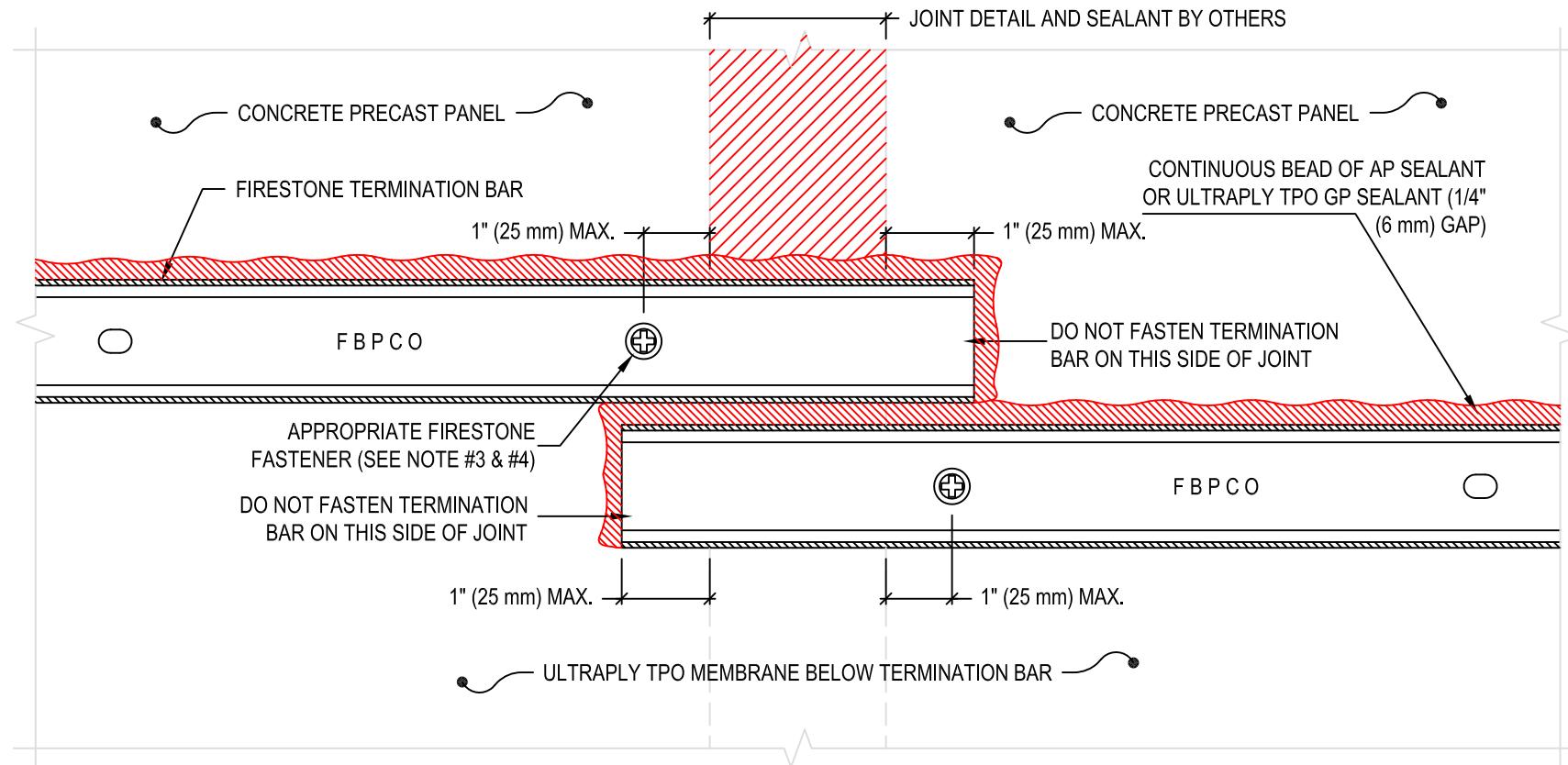
NOT TO SCALE

DETAIL NO.
UT-T-8

**MASONRY AND CONCRETE
WALLS MUST BE
WATERPROOFED AND
MAINTAINED IN ORDER
FOR ANY SURFACE
MOUNTED TERMINATION
TO BE EFFECTIVE**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. TERMINATION BAR MUST BE CUT AT EACH WALL JOINT AND SECURED TO THE SUBSTRATE WITH APPROPRIATE FIRESTONE FASTENER. REFER TO UT-T-1 FOR APPLICATION OF WATERBLOCK AND TERMINATION BAR INSTALLATION SPECIFICATIONS.
3. IF FIRESTONE MASONRY FASTENER IS USED, FASTENER MUST BE INSTALLED WITH SLOT HORIZONTAL.
4. FIRESTONE FASTENERS 12" (305 mm) O.C. MAX. OR AS REQUIRED TO PROVIDE COMPRESSION ON THE TERMINATION BAR.

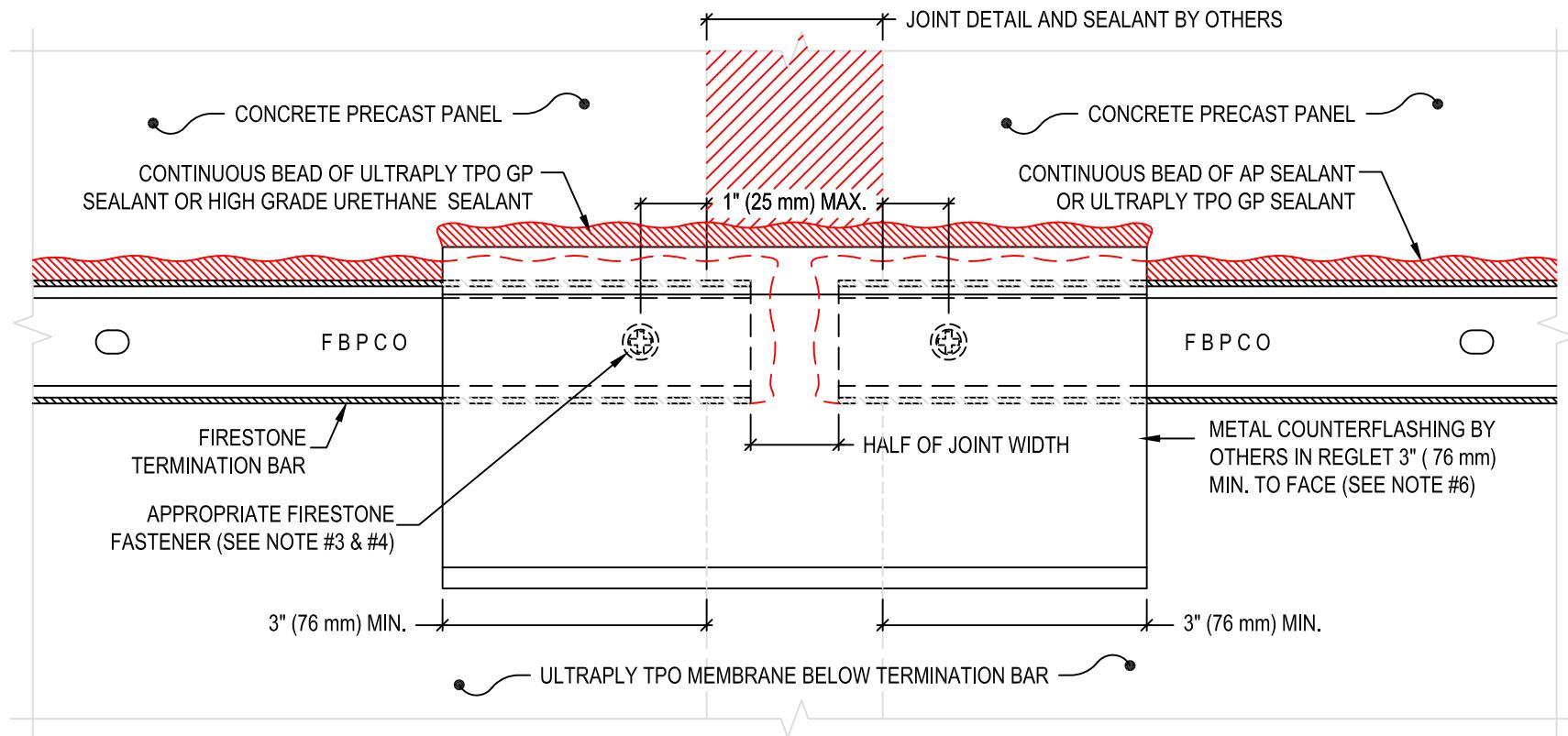


MAXIMUM WARRANTY: **20 YEARS**

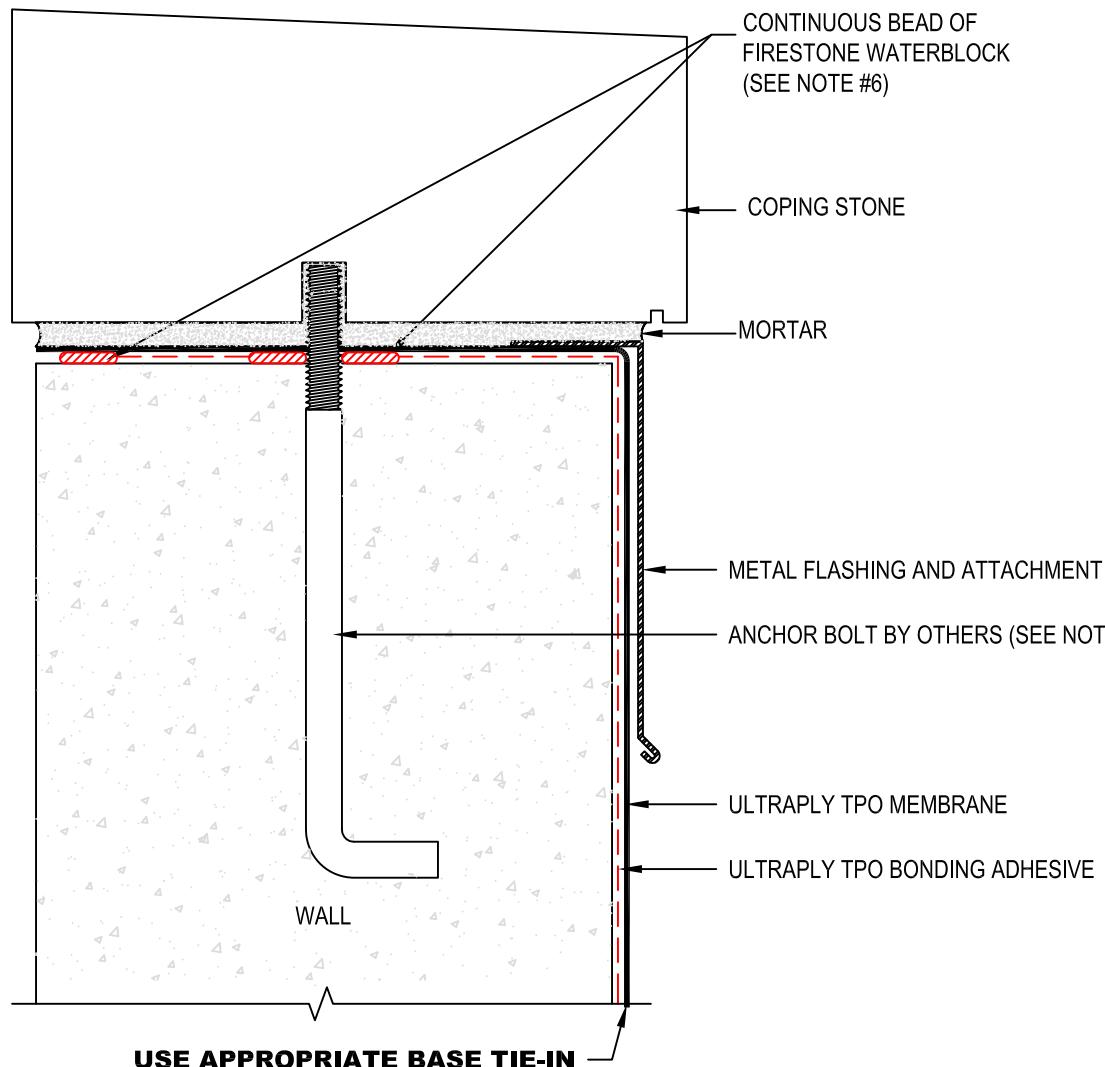
**MASONRY AND CONCRETE
WALLS MUST BE
WATERPROOFED AND
MAINTAINED IN ORDER
FOR ANY SURFACE
MOUNTED TERMINATION
TO BE EFFECTIVE**

NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. TERMINATION BAR MUST BE CUT AT EACH WALL JOINT AND SECURED TO THE SUBSTRATE WITH APPROPRIATE FIRESTONE FASTENER. REFER TO UT-T-1 FOR APPLICATION OF WATERBLOCK AND TERMINATION BAR INSTALLATION SPECIFICATIONS.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. IF FIRESTONE MASONRY FASTENER IS USED, FASTENER MUST BE INSTALLED WITH SLOT HORIZONTAL.
5. FIRESTONE FASTENERS 12" (305 mm) O.C. MAX. OR AS REQUIRED TO PROVIDE COMPRESSION ON THE TERMINATION BAR.
6. CUT REGLET LONG ENOUGH TO ALLOW FOR MOVEMENT OF COUNTER FLASHING. SECURE COUNTERFLASHING IN REGLET IN ONLY ONE SIDE OF JOINT WITH LEAD WEDGES.



MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WATER TIGHT INTEGRITY OF THE WALL AND COPING MUST BE MAINTAINED BY OTHERS.
3. COPING STONE ATTACHMENT IS THE RESPONSIBILITY OF THE SPECIFIER.
4. ANCHOR BOLT SECUREMENT LUG MUST BE INSTALLED IN ACCORDANCE WITH MASONRY STANDARDS AND LOCAL BUILDING CODES.
5. FIRESTONE ULTRAPHLY TPO MEMBRANE EXTENDING TO FACE OF WALL.
6. CONTINUOUS BEAD OF FIRESTONE WATERBLOCK ALONG ENTIRE EDGE OF EPDM AND WALL. WATERBLOCK ALSO APPLIED AROUND ANCHOR.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

TERMINATION AT TOP OF WALL WITH COPING STONE

ULTRAPHLY™ TPO

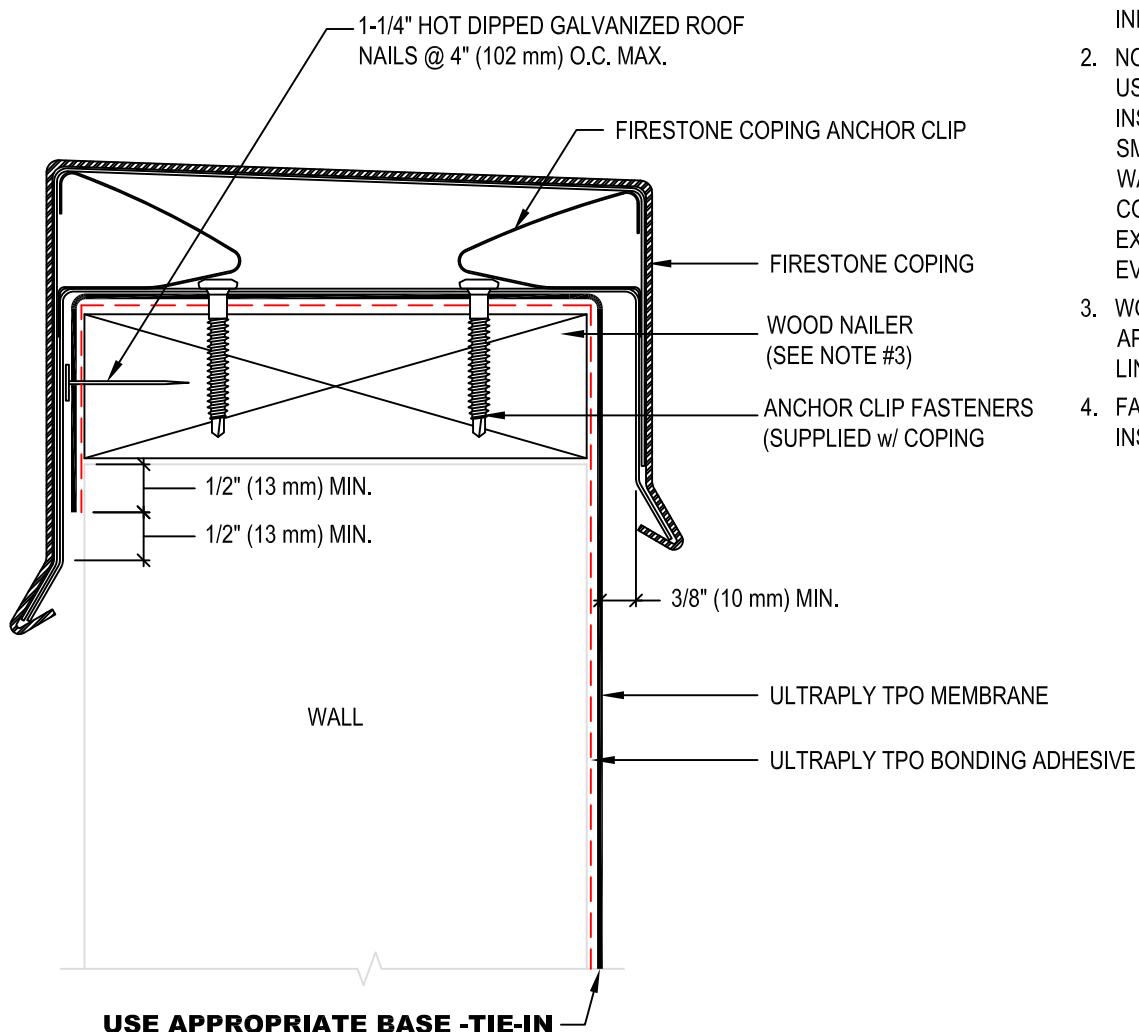
ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

DETAIL NO.
UT-T-11

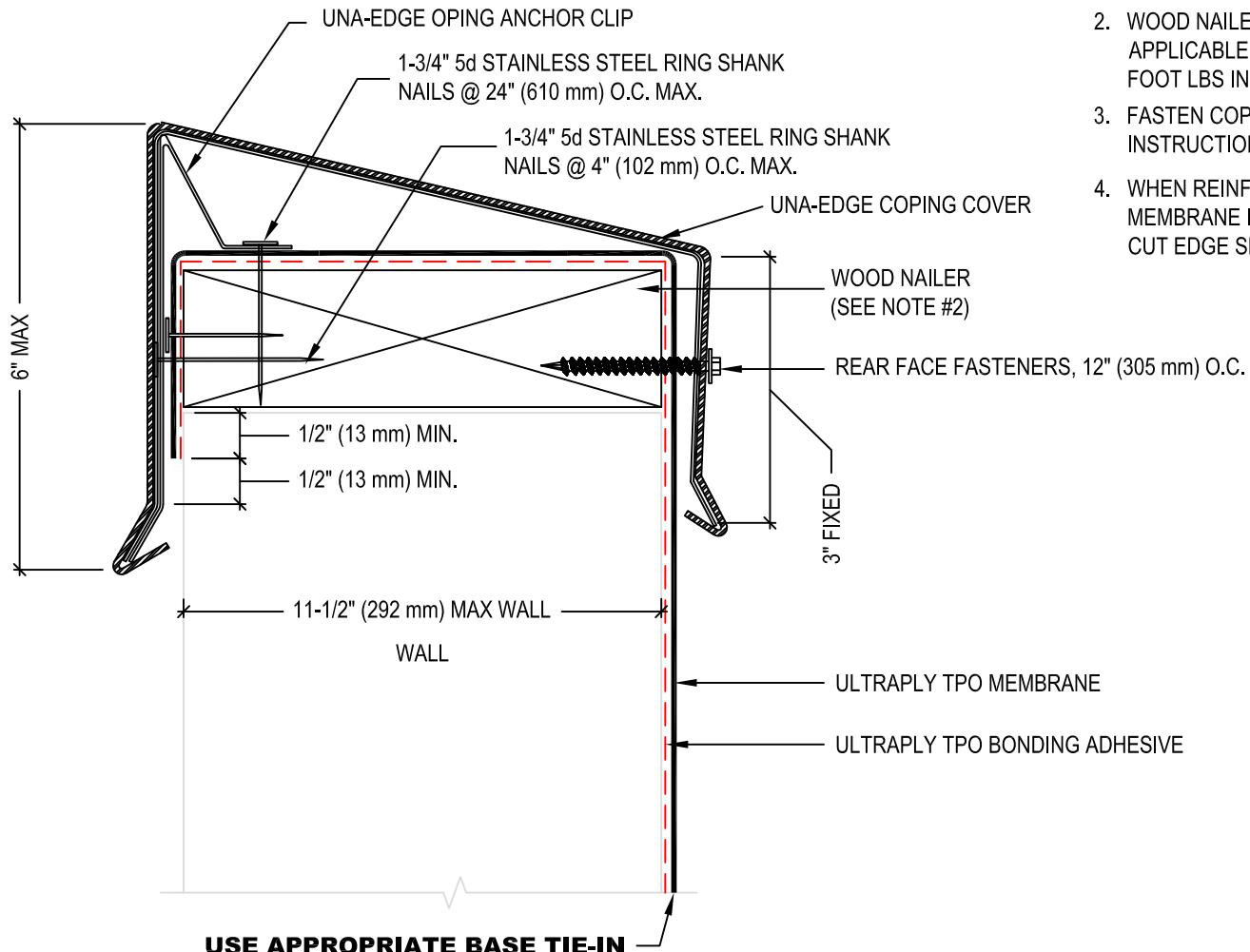


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. NON-FIRESTONE METAL COPING IS ACCEPTABLE FOR USE IN THIS DETAIL PROVIDED FABRICATION AND INSTALLATION IS IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS. HOWEVER, WATERTIGHT INTEGRITY OF WALL AND METAL COPING SHALL BE ENSURED OTHERS AND BE EXCLUDED FROM WARRANTY COVERAGE IN THE THE EVENT NON-FIRESTONE COPING IS UTILIZED.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
4. FASTEN COPING CLEAT AS PER SUPPLIED INSTRUCTIONS.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	TERMINATION AT TOP OF WALL WITH FIRESTONE COPING		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-12
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL		



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 PER LINEAR FOOT LBS IN ANY GIVEN DIRECTION.
3. FASTEN COPING CLEAT AS PER SUPPLIED INSTRUCTIONS AND FASTENERS.
4. WHEN REINFORCEMENT OF TPO INSTRUCTIONS. MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

TERMINATION AT TOP OF WALL WITH UNA-EDGE COPING

ULTRAPLY™ TPO

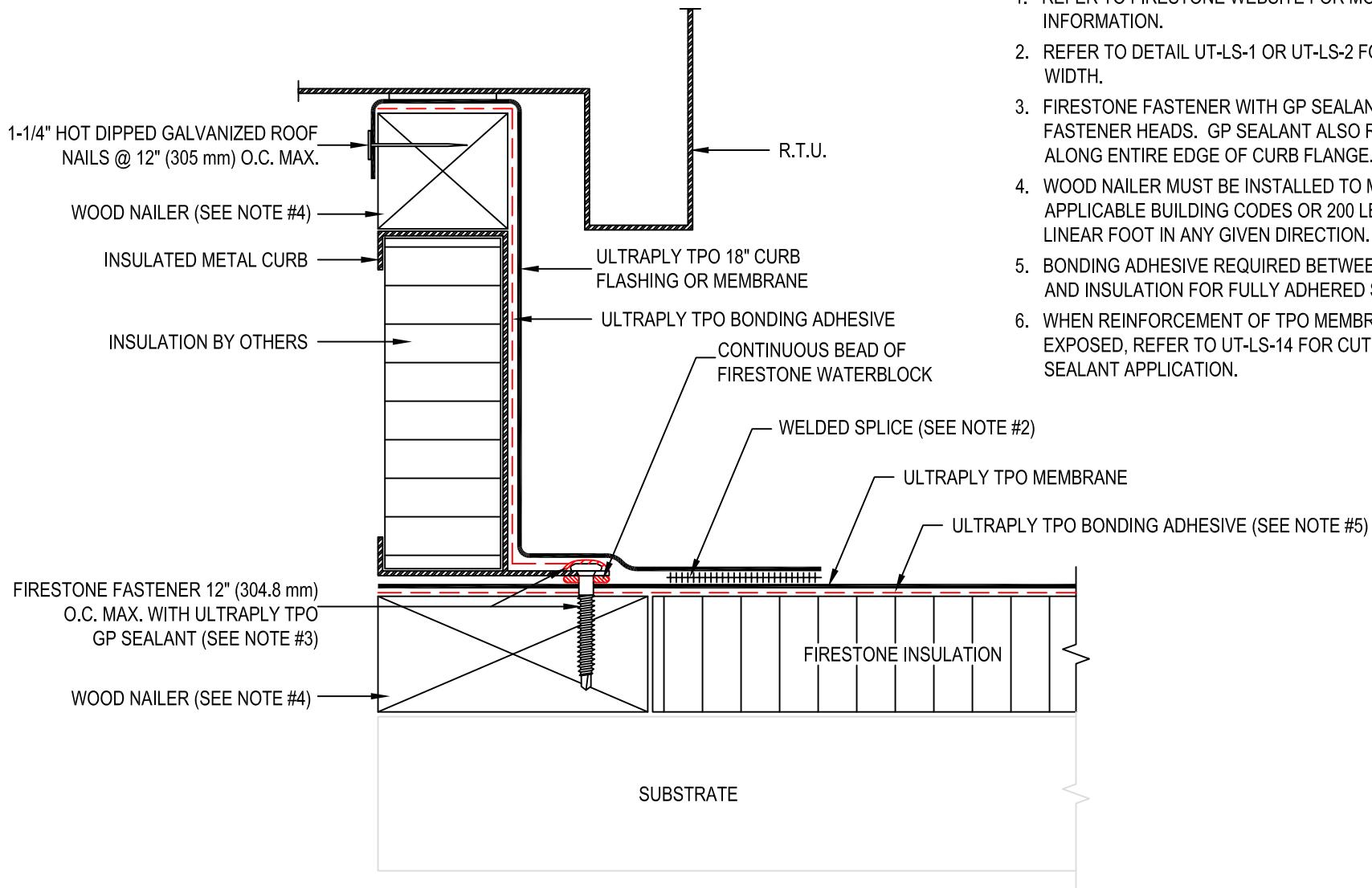
ACCEPTABLE SYSTEMS: ALL

MAXIMUM WARRANTY: **20 YEARS**

ISSUE / REVISION
DATE:
7/22/2014

NOT TO SCALE

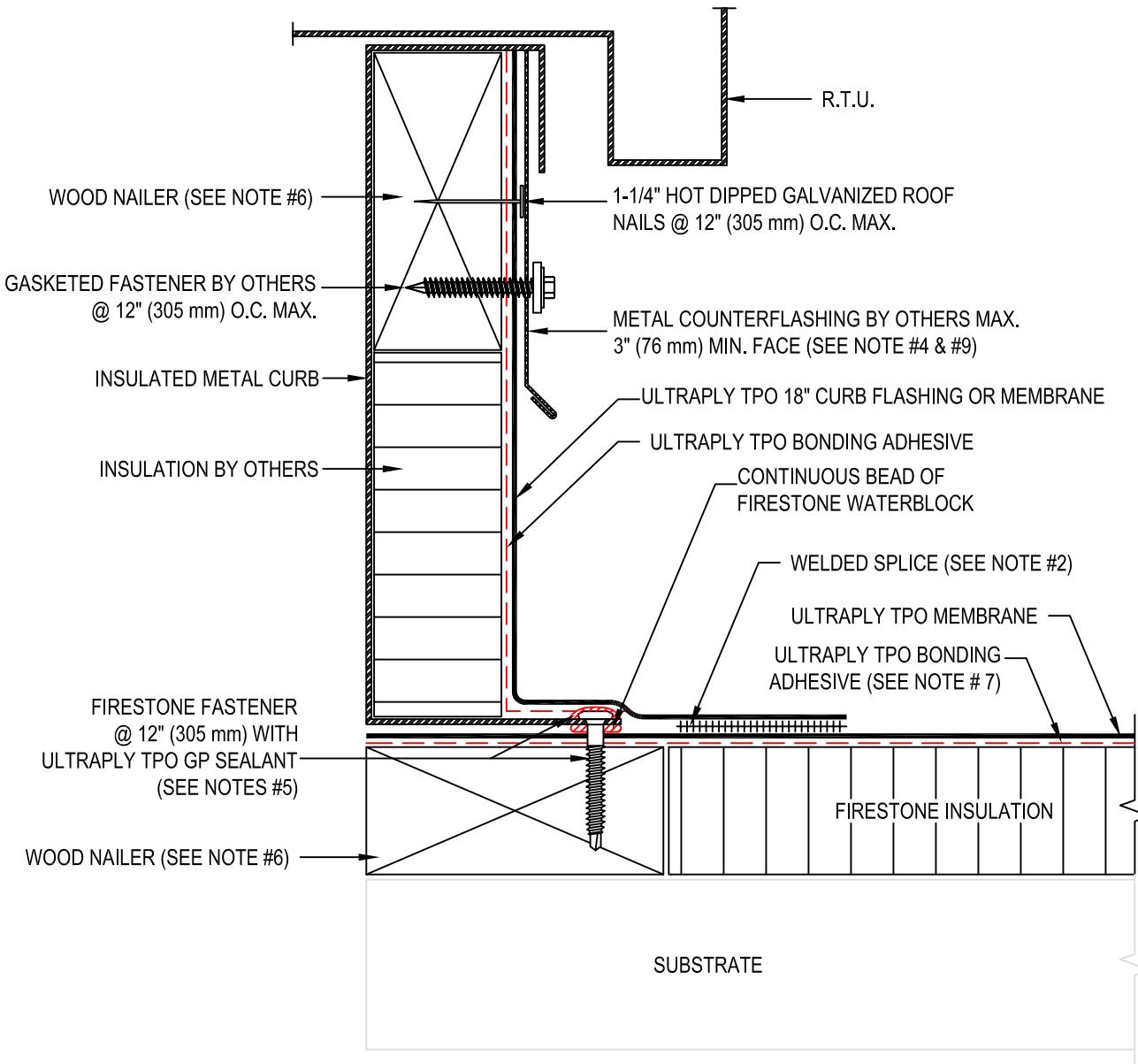
DETAIL NO.
UT-T-12A



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. FIRESTONE FASTENER WITH GP SEALANT OVER FASTENER HEADS. GP SEALANT ALSO REQUIRED ALONG ENTIRE EDGE OF CURB FLANGE.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: 20 YEARS



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. NAILING AND METAL COUNTERFLASHING ARE NOT REQUIRED IF MEMBRANE IS RUN UP AND OVER CURB WALLS PRIOR TO INSTALLATION OF R.T.U.
4. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE MOUNTED TIGHTLY TO UNDERSIDE OF MECHANICAL UNIT.
5. FIRESTONE FASTENER WITH GP SEALANT OVER FASTENER HEADS. GP SEALANT ALSO REQUIRED ALONG ENTIRE EDGE OF CURB FLANGE.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
9. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com
--

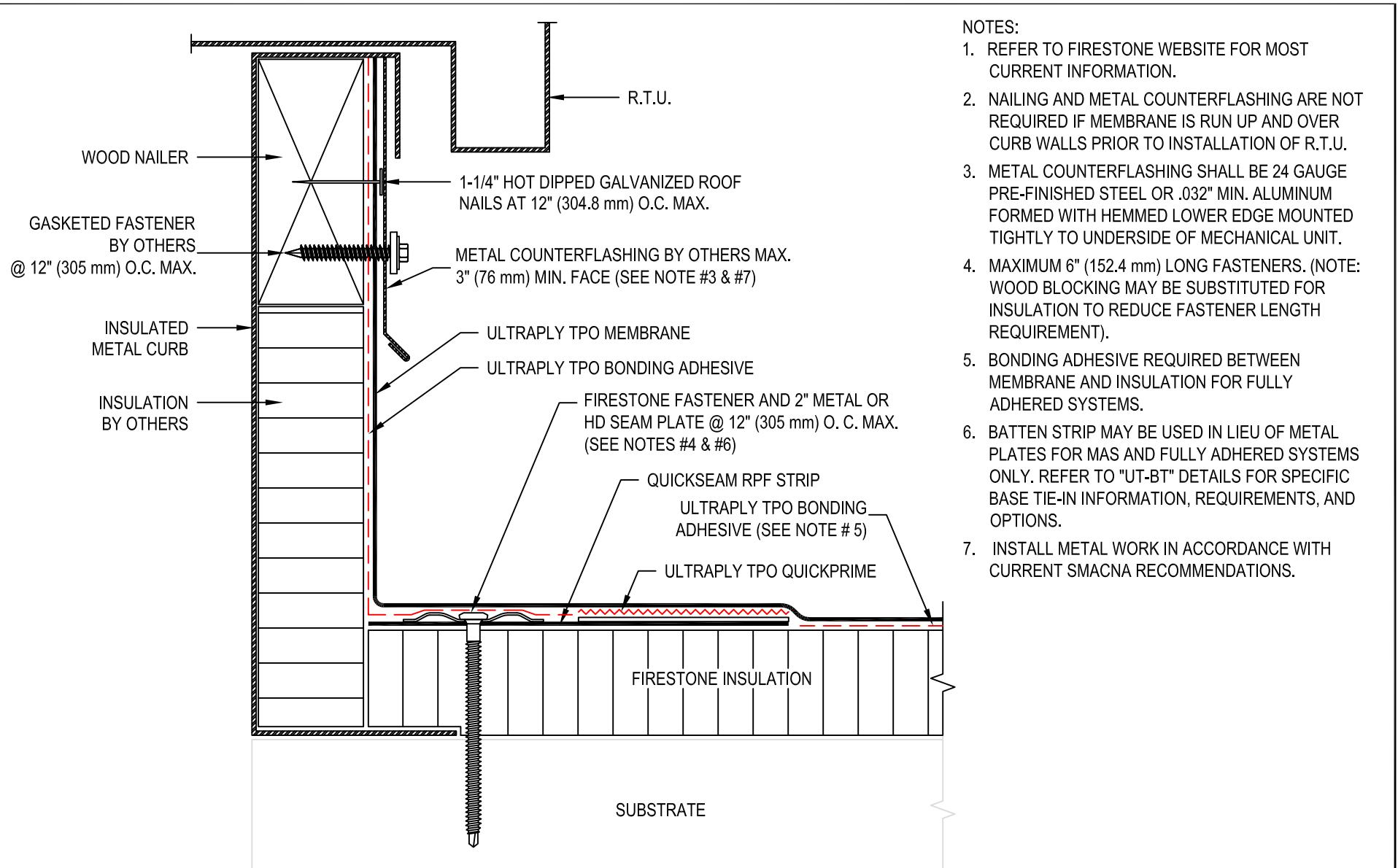
TERMINATION AT R.T.U. WITH COUNTERFLASHING (UNIT FLANGE ABOVE MEMBRANE)

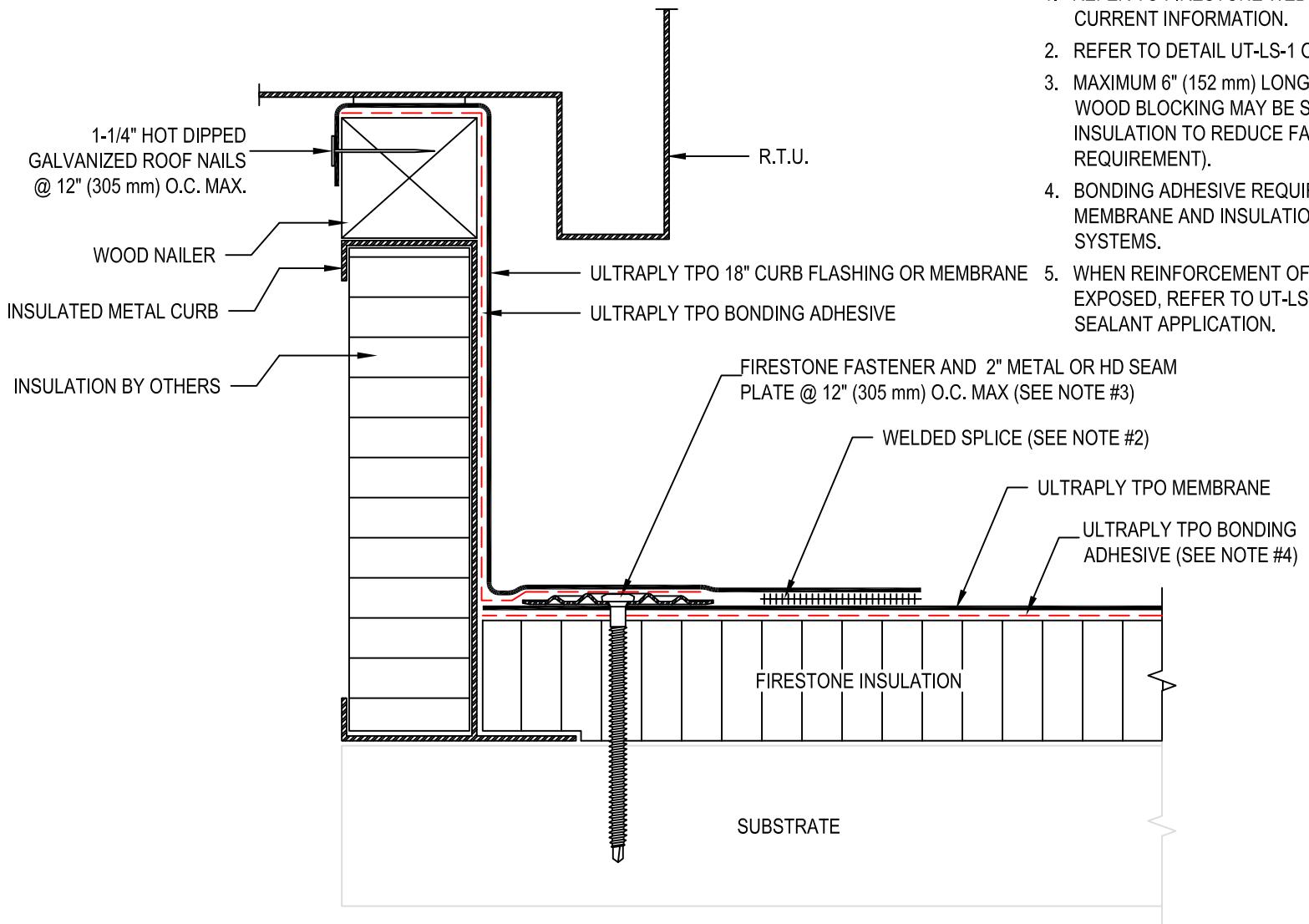
ULTRATECH™ TPO

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE: 7/22/2014
NOT TO SCALE

DETAIL NO.
UT-T-15

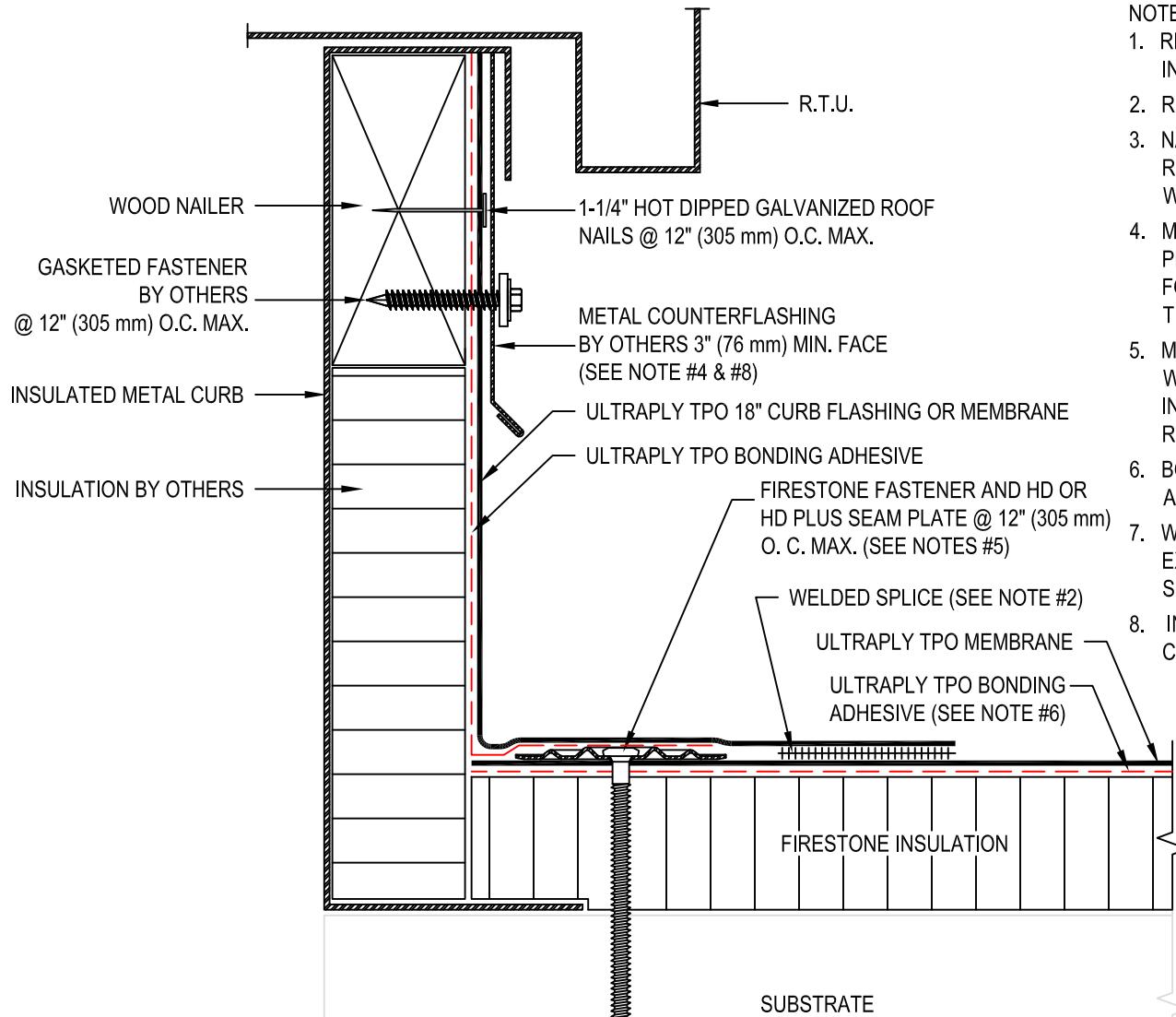




NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. MAXIMUM 6" (152 mm) LONG FASTENERS (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

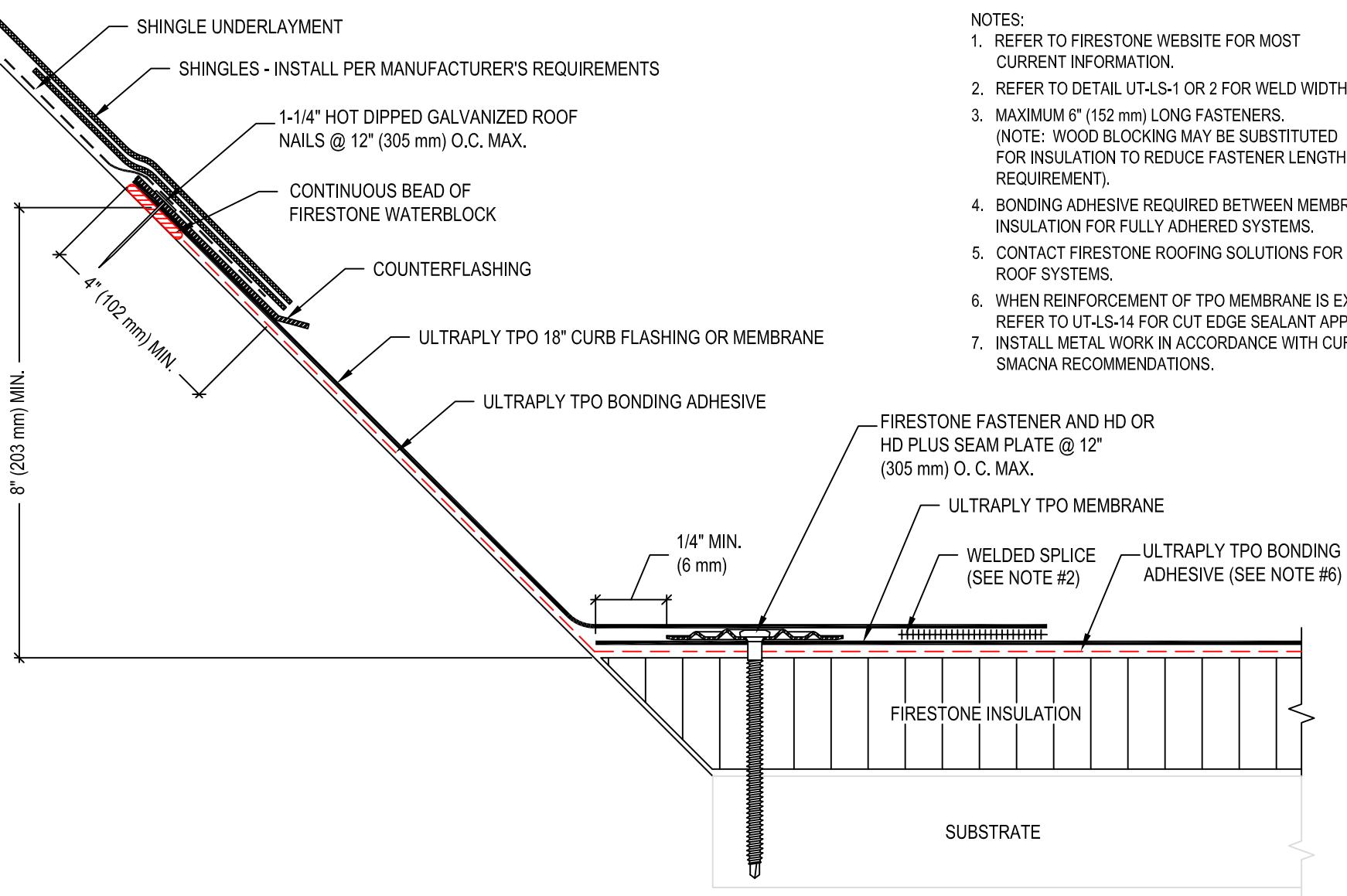
Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpc.com	TERMINATION AT R.T.U. WITH WELDED SPLICE (UNIT FLANGE MOUNTED TO SUBSTRATE)	MAXIMUM WARRANTY: 20 YEARS	
		ISSUE / REVISION DATE: 7/22/2014	DETAIL NO. UT-T-18
ULTRAPLY™ TPO		ACCEPTABLE SYSTEMS: ALL NOT TO SCALE	



NOTES:

- REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
- REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
- NAILING AND METAL COUNTERFLASHING ARE NOT REQUIRED IF MEMBRANE IS RUN UP AND OVER CURB WALLS PRIOR TO INSTALLATION OF R.T.U.
- METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE MOUNTED TIGHTLY TO UNDERSIDE OF MECHANICAL UNIT.
- MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
- BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
- WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
- INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MAXIMUM WARRANTY: **20 YEARS**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. MAXIMUM 6" (152 mm) LONG FASTENERS.
(NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
5. CONTACT FIRESTONE ROOFING SOLUTIONS FOR BALLASTED ROOF SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MAXIMUM WARRANTY: 20 YEARS

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

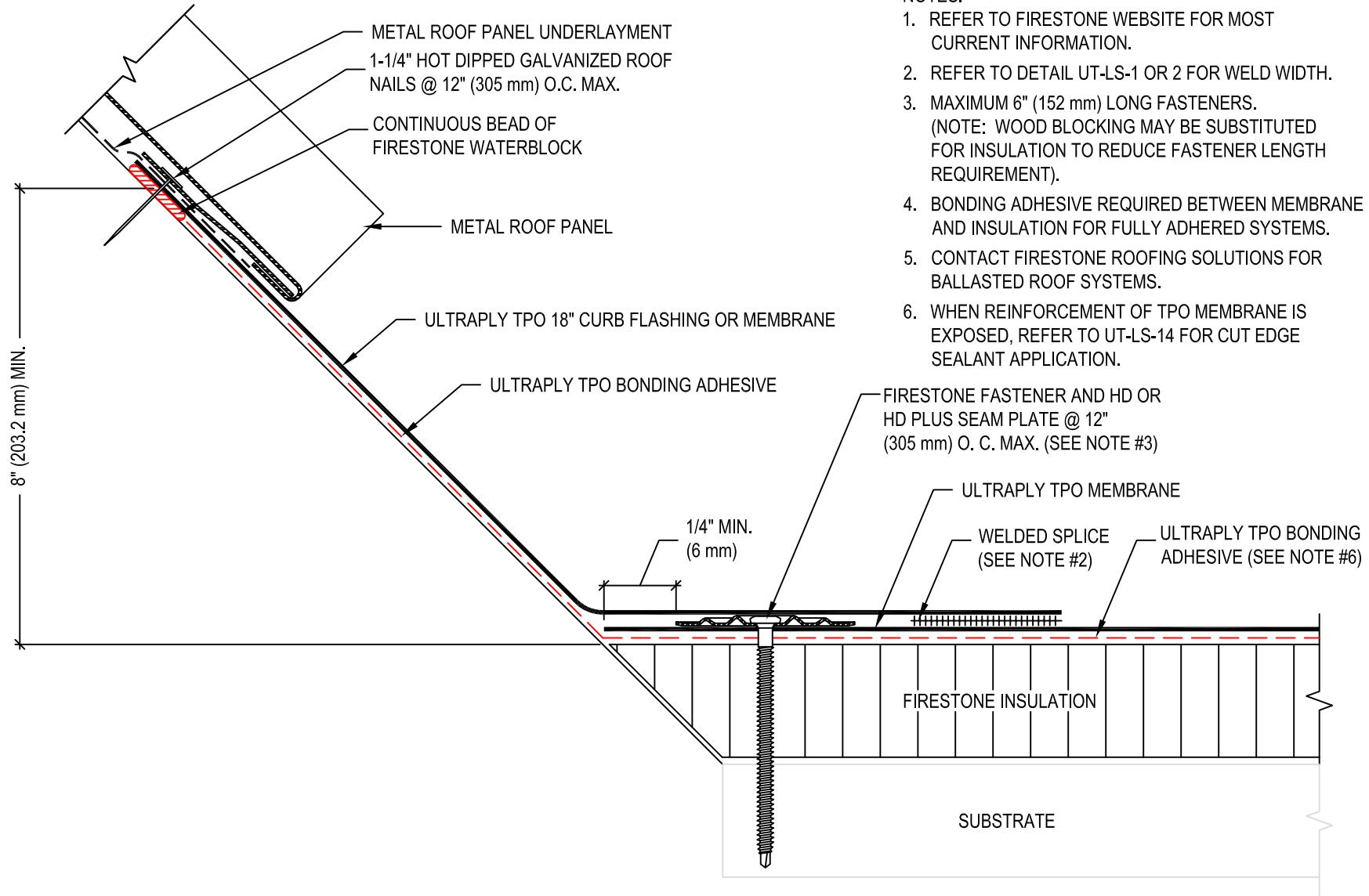
TERMINATION AT SHINGLES

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: ALL (SEE NOTES)

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-T-20



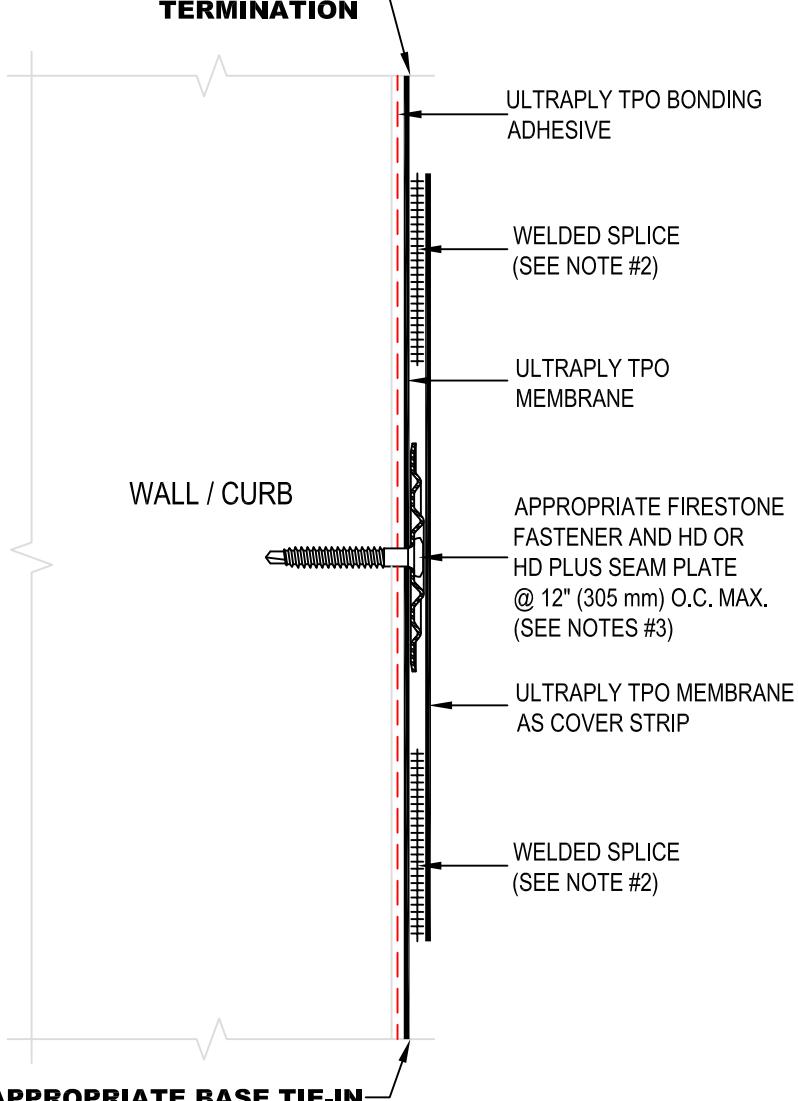
MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS NOBODY COVERS YOU BETTER.™ www.firestonebpco.com	TERMINATION AT METAL ROOF PANEL	
	ULTRAPLY™ TPO	ACCEPTABLE SYSTEMS: ALL (SEE NOTES)

ISSUE / REVISION DATE: 7/22/2014
NOT TO SCALE

DETAIL NO.
UT-T-21

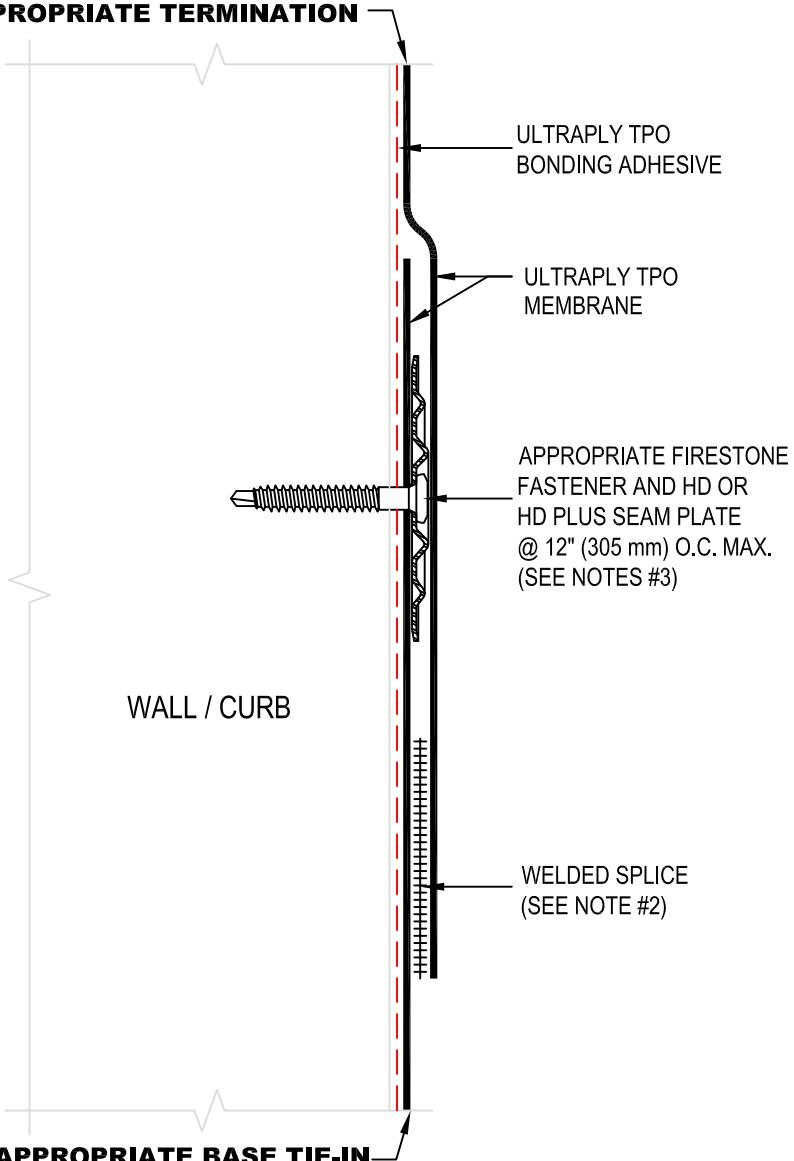
**USE APPROPRIATE
TERMINATION**



NOTES:

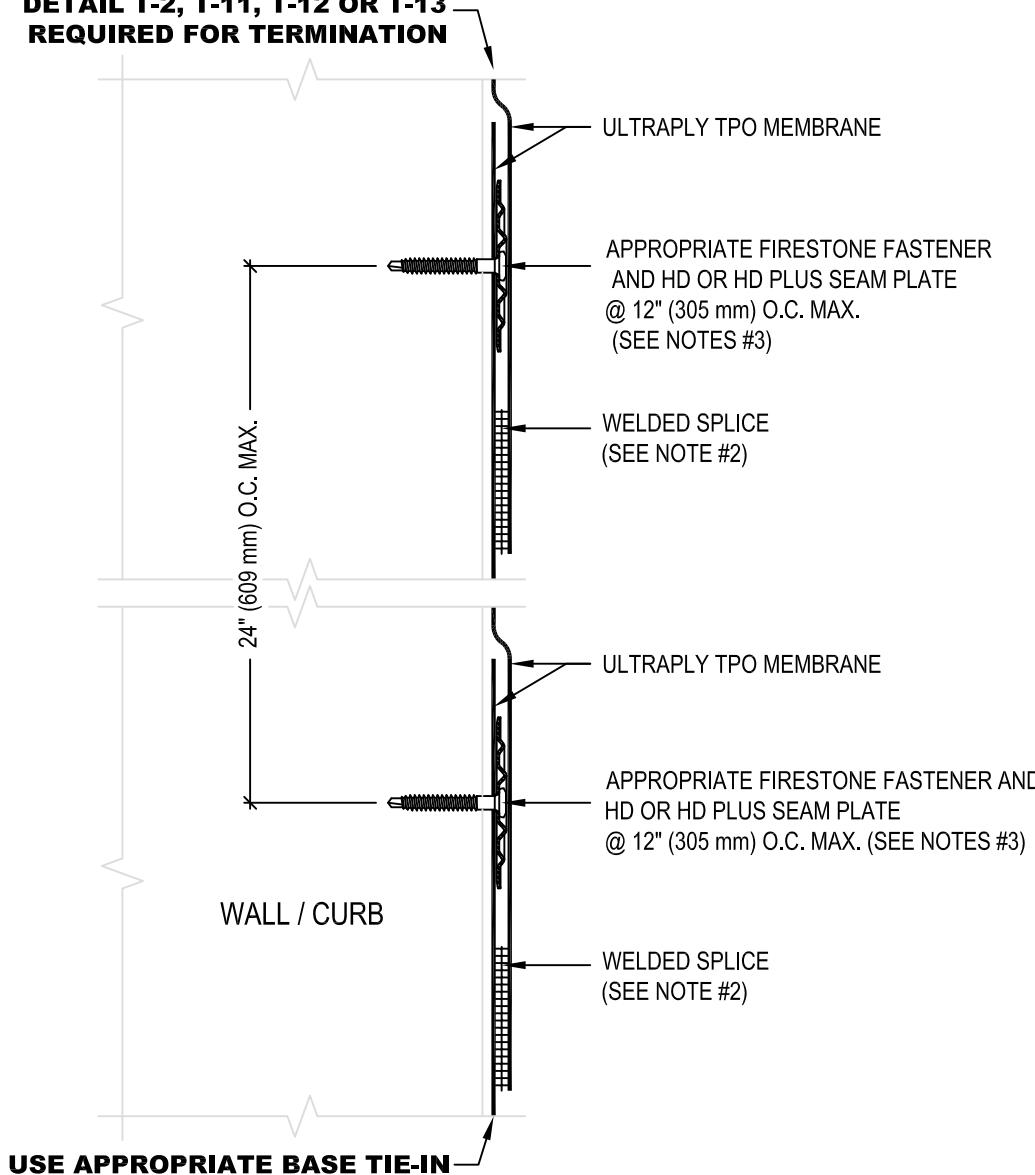
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. IF INTERMEDIATE ATTACHMENT IS REQUIRED, COMPLETE AS FOLLOWS:
 - UP TO 3' (1 M) WALL HEIGHT- NONE REQUIRED
 - 3' (1 M) - 6' (2 M) WALL HEIGHT - ONE ATTACHMENT AT 1/2 THE WALL HEIGHT
 - ABOVE 6' (2 M) - ONE ATTACHMENT EVERY 3' (1 M)
5. THERE ARE SOME CONDITIONS WHICH DO NOT REQUIRE INTERMEDIATE ATTACHMENT. REFER TO FIRESTONE APPLICATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: 20 YEARS

USE APPROPRIATE TERMINATION**NOTES:**

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. IF INTERMEDIATE ATTACHMENT IS REQUIRED, COMPLETE AS FOLLOWS:
 - UP TO 3' (1 M) WALL HEIGHT- NONE REQUIRED
 - 3' (1 M) - 6' (2 M) WALL HEIGHT - ONE ATTACHMENT AT 1/2 THE WALL HEIGHT
 - ABOVE 6' (2 M) - ONE ATTACHMENT EVERY 3' (1 M)
5. THERE ARE SOME CONDITIONS WHICH DO NOT REQUIRE INTERMEDIATE ATTACHMENT. REFER TO FIRESTONE APPLICATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

**DETAIL T-2, T-11, T-12 OR T-13
REQUIRED FOR TERMINATION**



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. BATTEN STRIP MAY BE USED IN LIEU OF SEAM PLATES. POLYMER OR METAL BATTEN STRIP ACCEPTABLE FOR WOOD OR METAL SUBSTRATE. METAL BATTEN MUST BE USED WITH MASONRY SUBSTRATE.
4. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

MAXIMUM WARRANTY: **20 YEARS**

Firestone
BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpc.com

**INTERMEDIATE WALL FLASHING ATTACHMENT
(MEMBRANE NOT ADHERED TO WALL / CURB)**

ULTRAPLY™ TPO

ACCEPTABLE SYSTEMS: **ALL**

ISSUE / REVISION DATE:
7/22/2014
NOT TO SCALE

DETAIL NO.
UT-T-24