

5 Detail drawings

The information on this chapter is complementary to Chapter 1 (Design) and Chapter 3 (Installation) and serves to complete the design and execution of UltraPly™ TPO roofing systems in a safe and durable way.

Specifiers and installers will find a vast list of standard drawings that contain information about the correct build-up of the different UltraPly TPO roofing details.

Please note that these drawings are not designed on scale and do not include any information on vapor control layers. Therefore, they need to be considered as details that are applicable in standard roofing situations.

For an easy tracking, we have organized the Elevate UltraPly TPO details in the following sections:

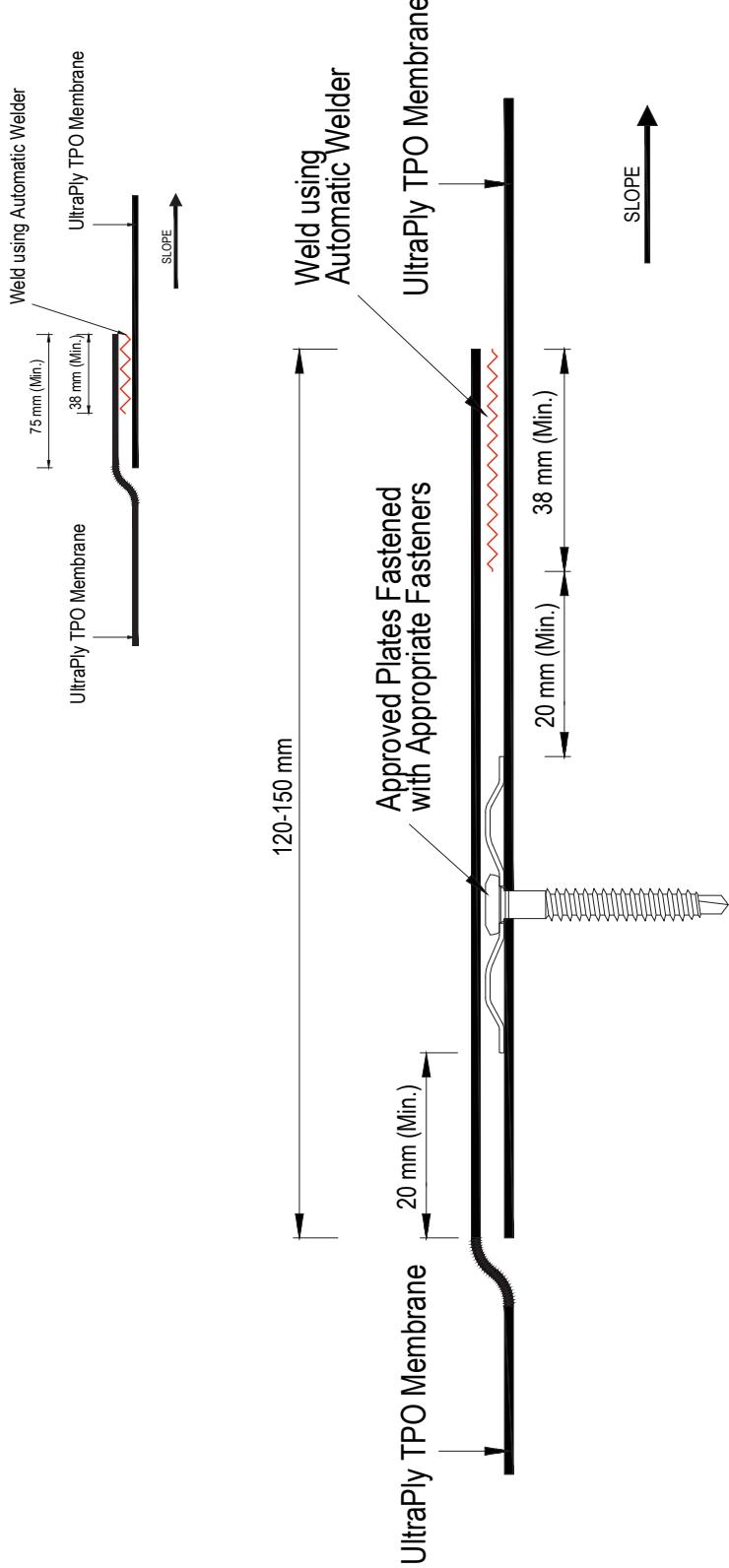
5.1 Welded seams	5.3
5.2 Base tie-ins	5.15
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5.4 Penetrations	5.33
5.5 Drains	5.43
5.6 Expansion joints	5.49
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5.8 Wall terminations	5.63

As the situation on site may differ from the conditions represented in these details, please contact our technical department or an Elevate technician for design and approval of an alternative detail.

5.1 Welded seams

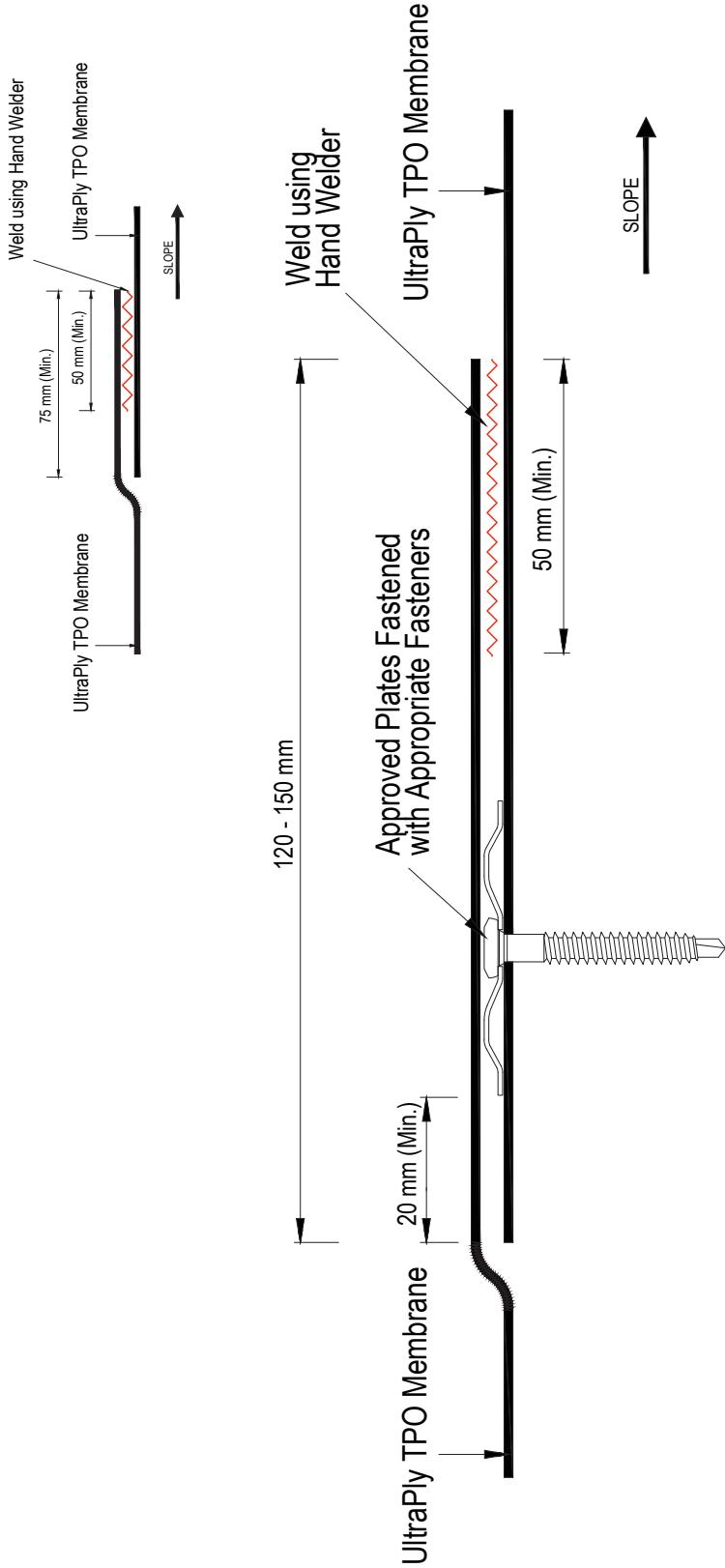
- T-WS-1 Welded seam using automatic welder
- T-WS-2 Welded seam using hand welder
- T-WS-3 Fastener layout and factory markings
- T-WS-4 TPO induction welding plate
- T-WS-5 Membrane repair over TPO induction welding plate
- T-WS-6 Cut edge treatment
- T-WS-7 T-joint with Unsupported Flashing
- T-WS-8 T-joint with Unsupported Flashing at intersection of two seams
- T-WS-9 T-joint with Unsupported Flashing at base of curb or wall
- T-WS-10 T-joints at 4 T-crossing membranes

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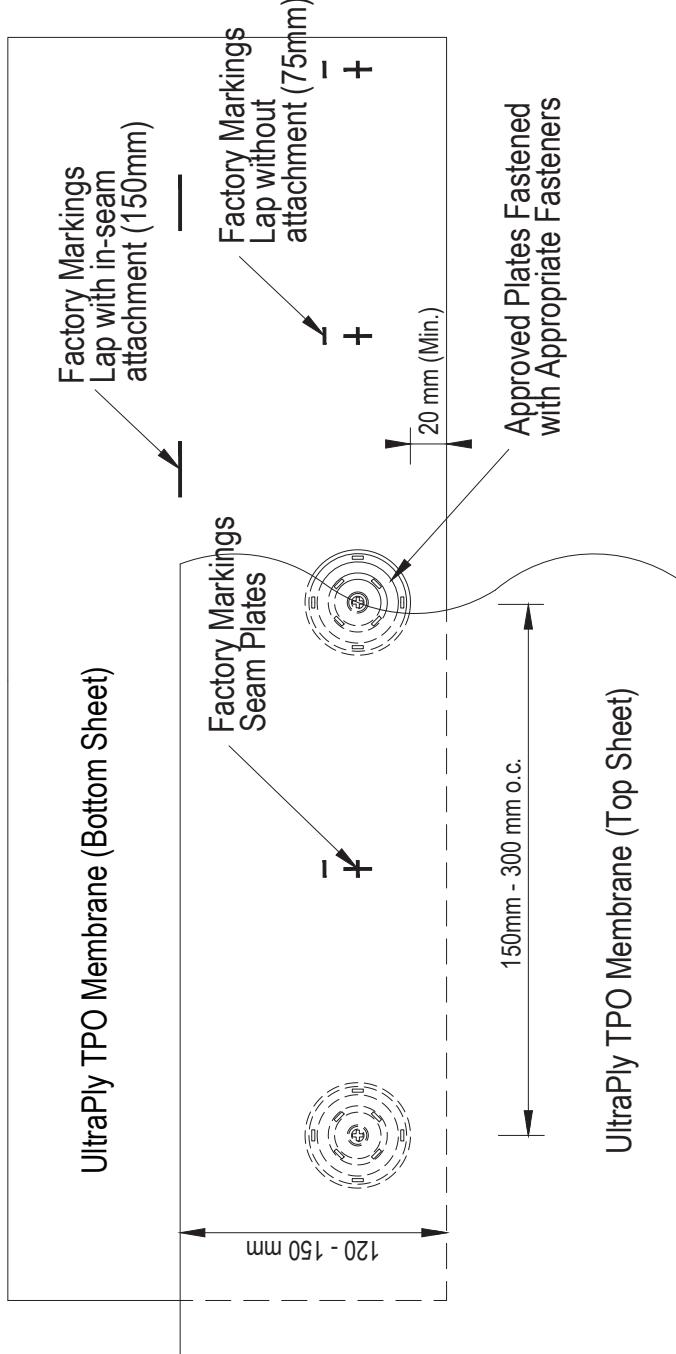
UltraPly™ TPO	System All	UT - WS - 1
Welded Seam using Automatic Welder	Not to scale	10/2022 EMEA & Asia

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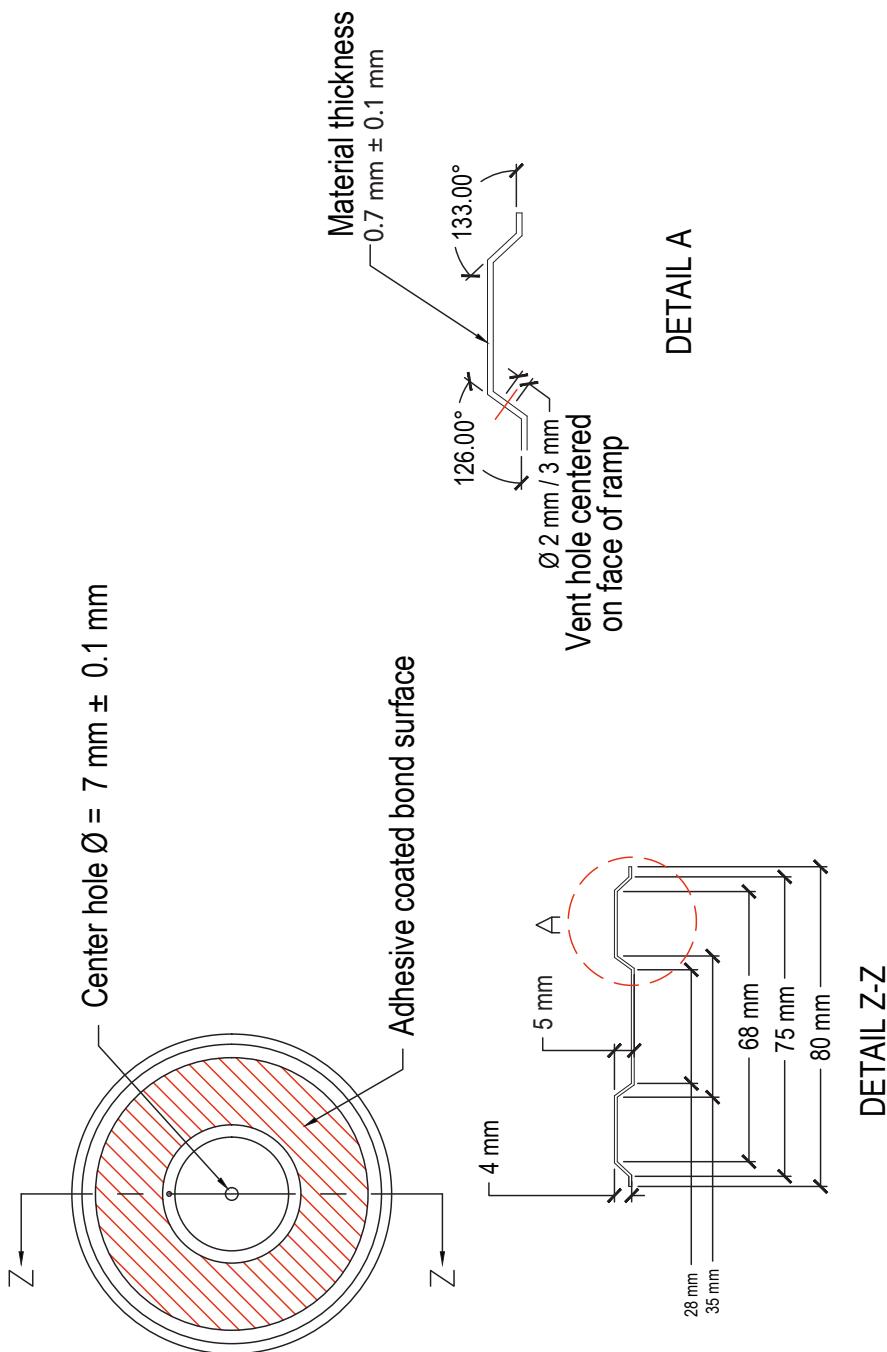
ELEVATE	UltraPly™ TPO	System All	UT - WS - 2
	Welded Seam using Hand Welder	Not to scale	10/2022
		EMEA & Asia	

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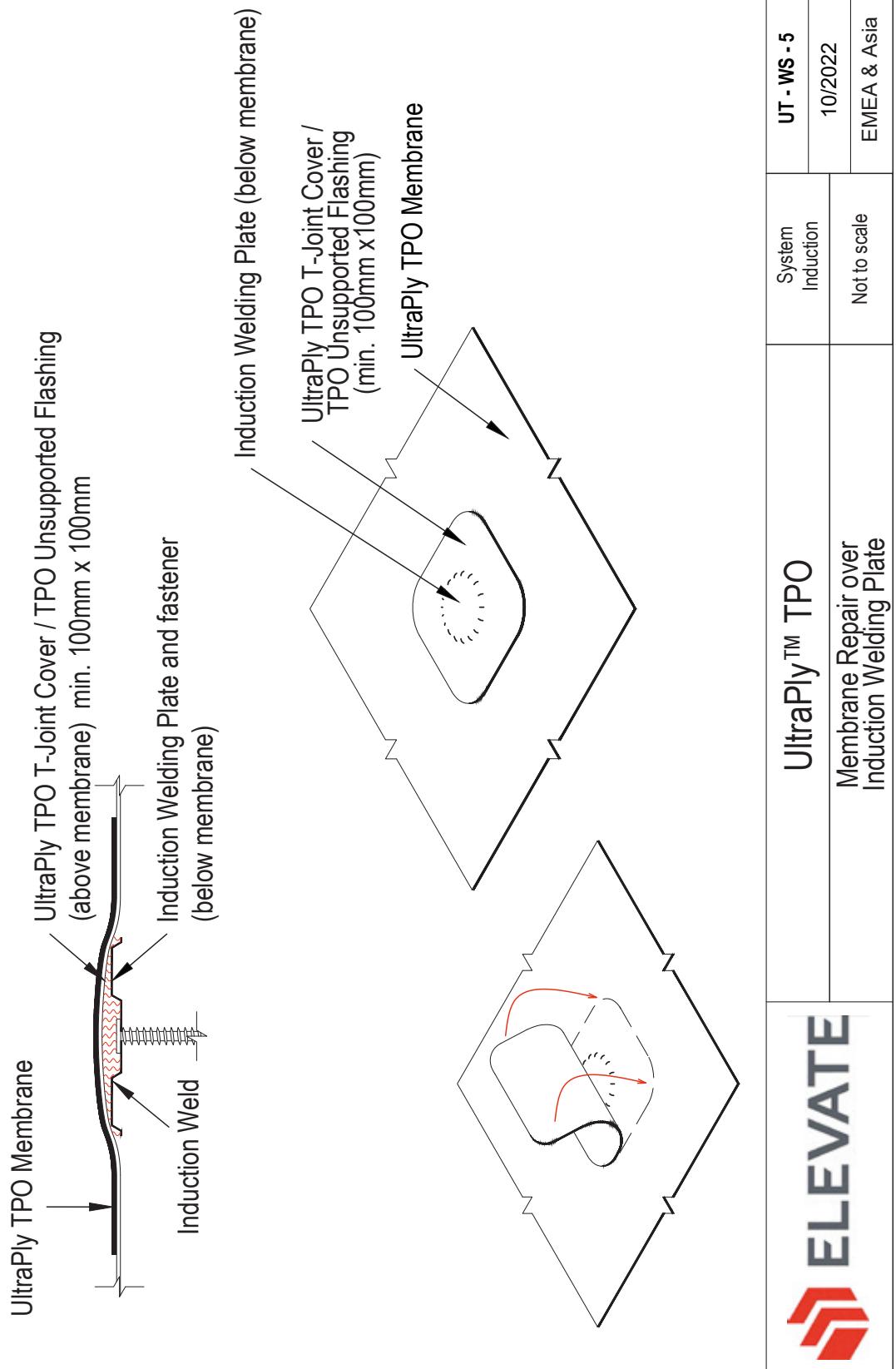
ELEVATE	UltraPly™ TPO	System MEC.	UT - WS - 3
	Fastener Layout and Factory Markings	Not to scale	10/2022
		EMEA & Asia	

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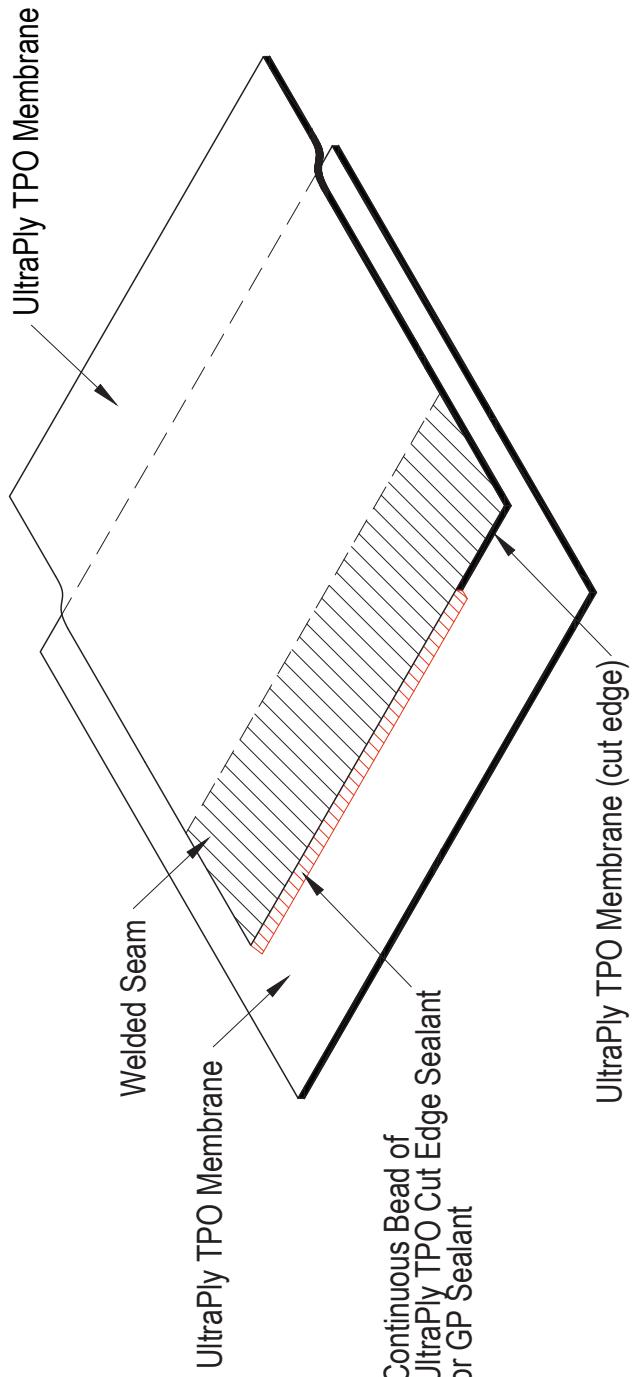


UltraPly™ TPO	System Induction	UT - WS - 4
Induction Welding Plate	Not to scale	10/2022
	EMEA & Asia	

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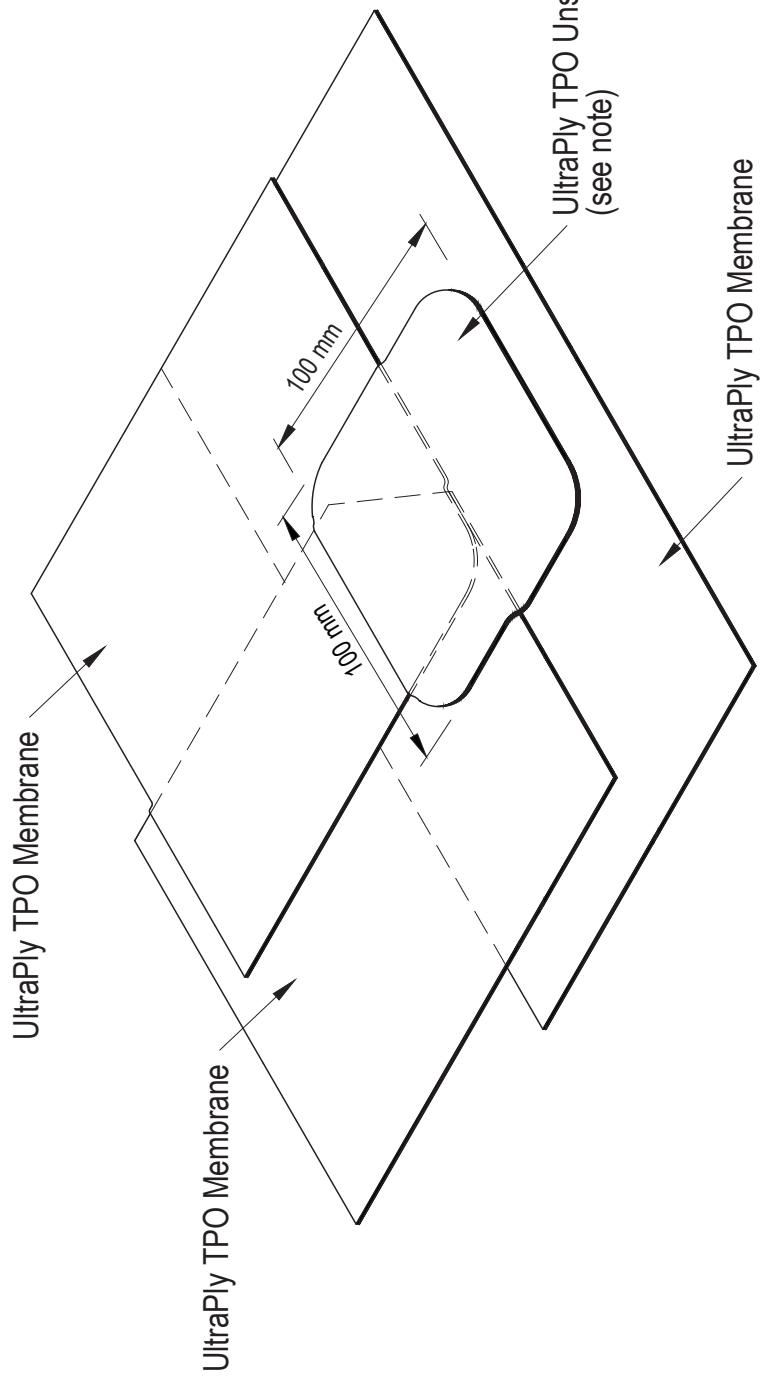
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Note: When polyester reinforcement of TPO is exposed,
apply Cut Edge or GP Sealant to entire exposed edge.

ELEVATE	UltraPly™ TPO	System All	UT - WS - 6
Cut Edge Treatment	Not to scale	10/2022	EMEA & Asia

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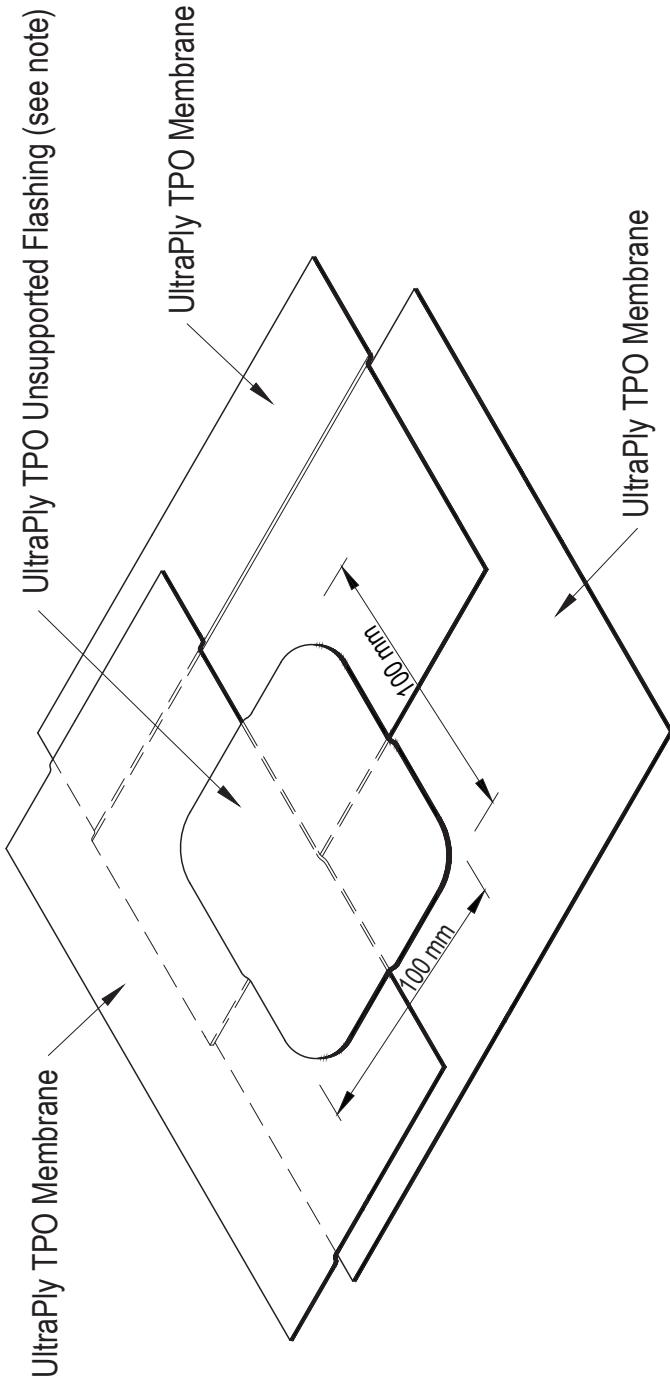


Note: T-joint with UltraPly TPO Unsupported Flashing required for membranes thickness of 1.5mm or more



UltraPly™ TPO	System All	UT - WS - 7
T-joint with Unsupported Flashing	Not to scale	EMEA & Asia

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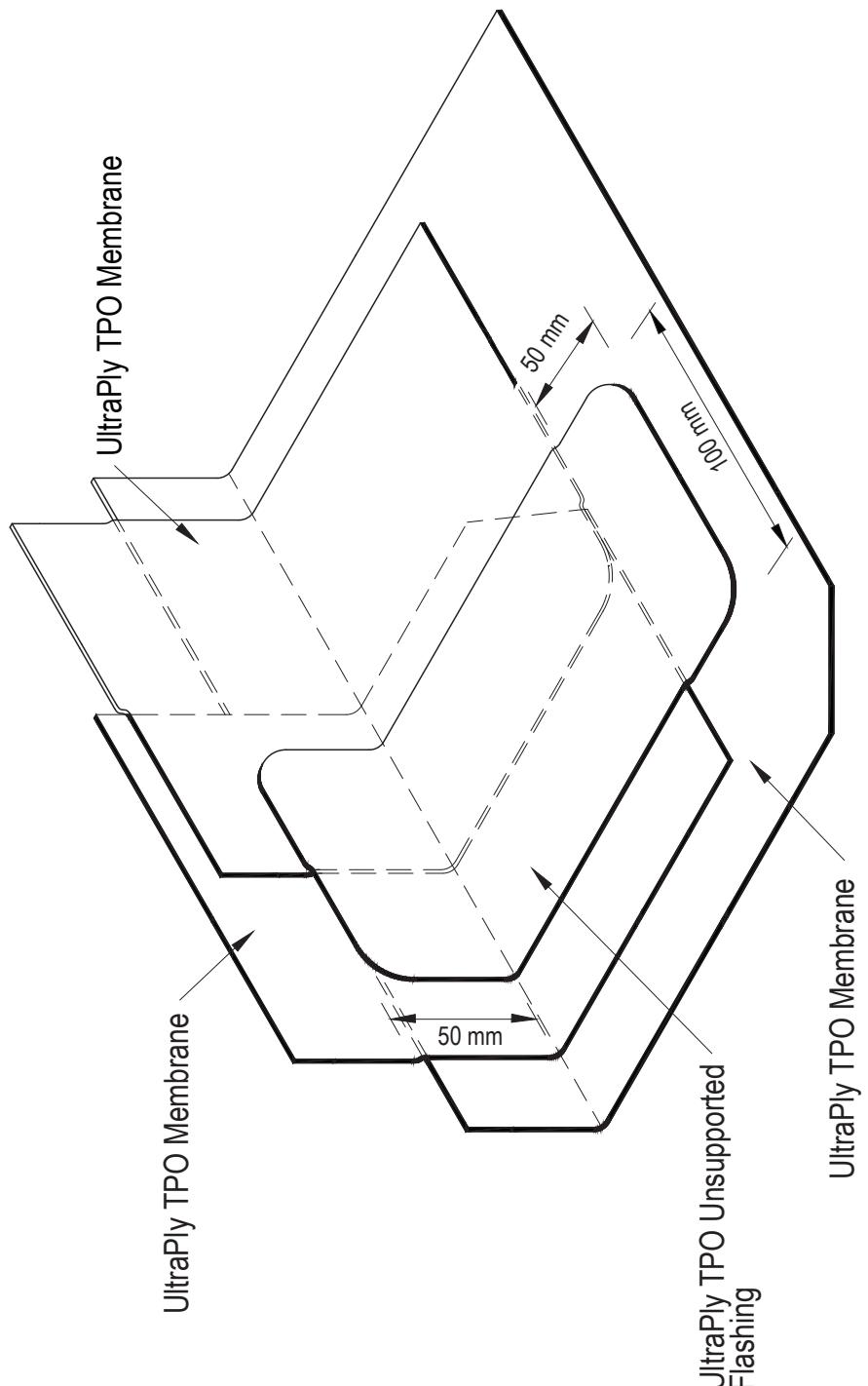


Note: T-joint with UltraPly TPO Unsupported Flashing required for membranes thickness of 1.5mm or more

UltraPly™ TPO	System All	UT - WS - 8
T-joint with Unsupported Flashing at intersection of two seams	Not to scale	10/2022
	EMEA & Asia	



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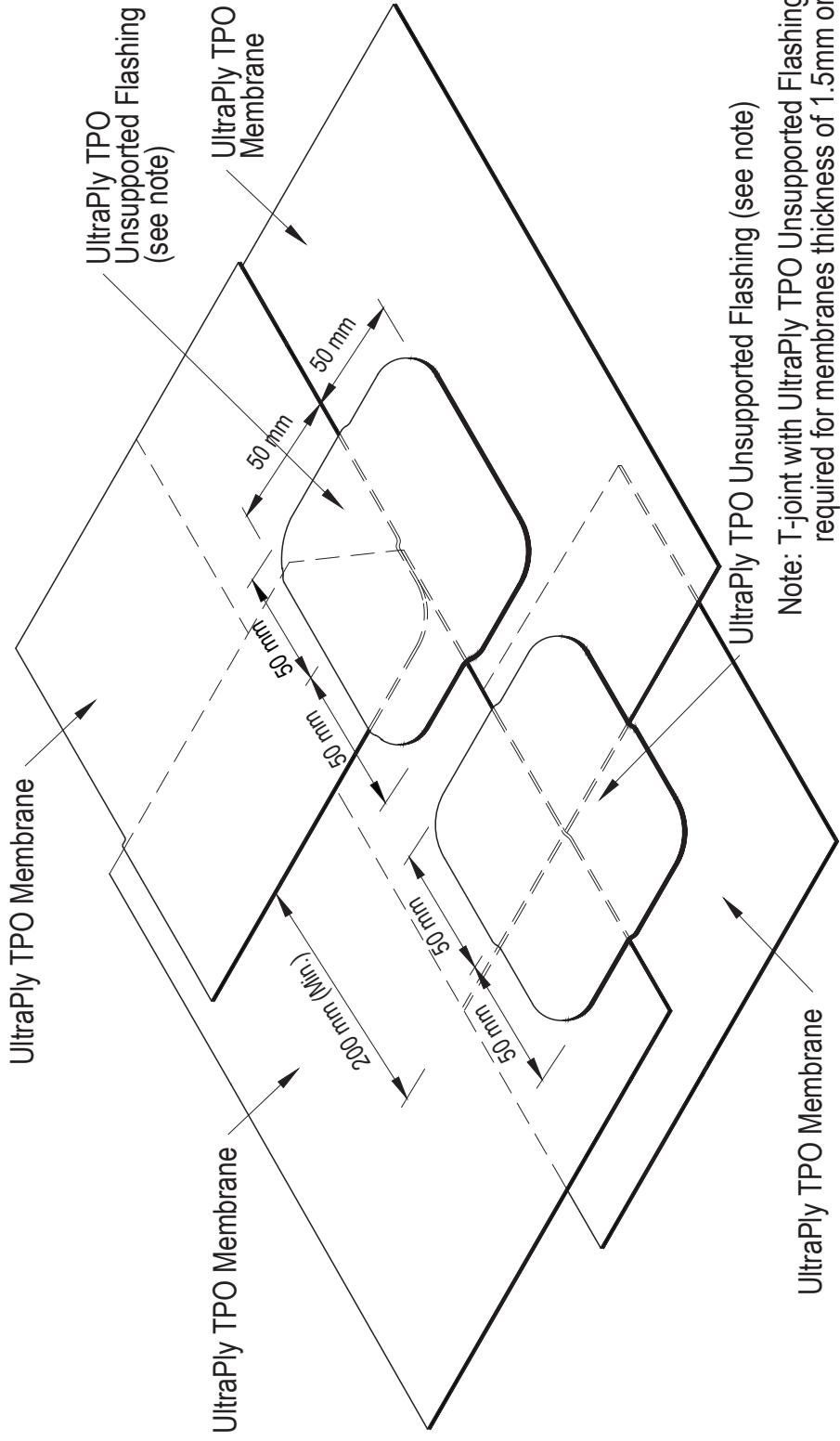


UltraPly™ TPO
T-joint with Unsupported Flashing
at base of Curb or Wall

UT - WS - 9	System All
10/2022	EMEA & Asia

Not to scale

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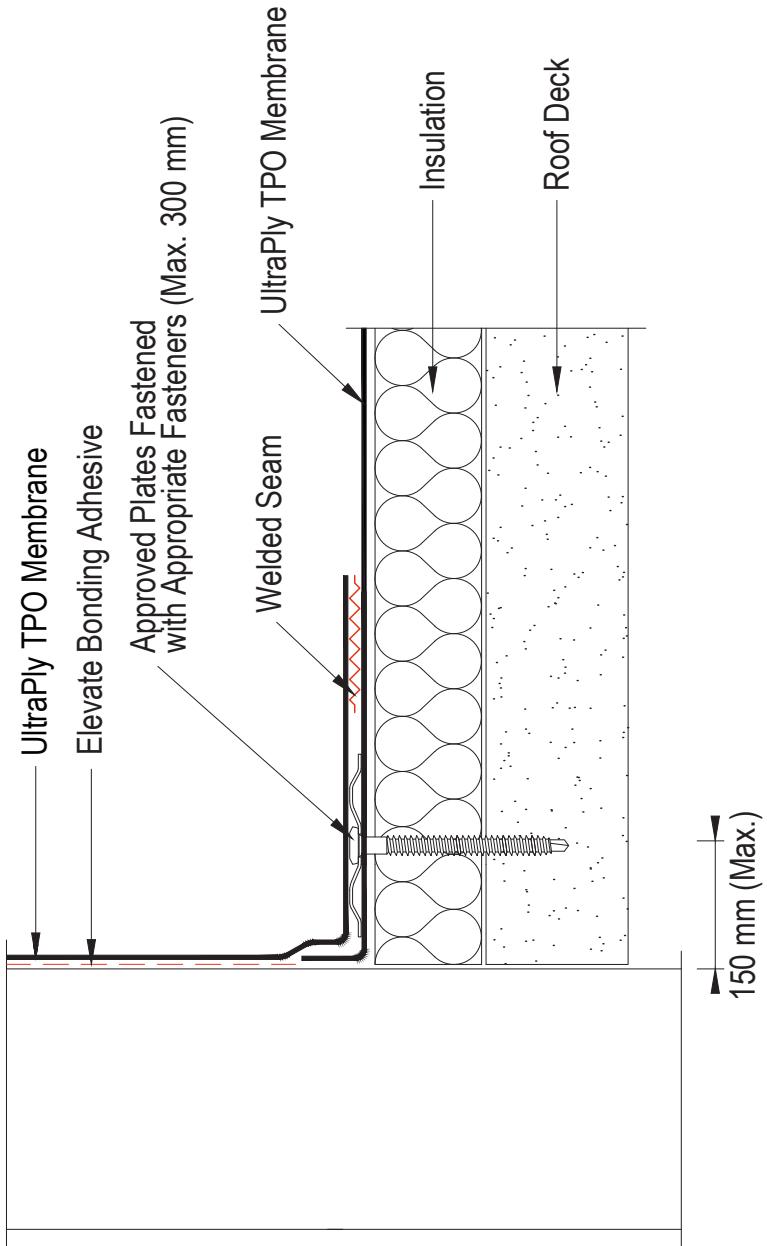


UltraPly™ TPO	System All	UT - WS - 10
T-joints at 4 T-crossing Membranes	Not to scale	10/2022
ELEVATE	EMEA & Asia	

5.2 Base tie-ins

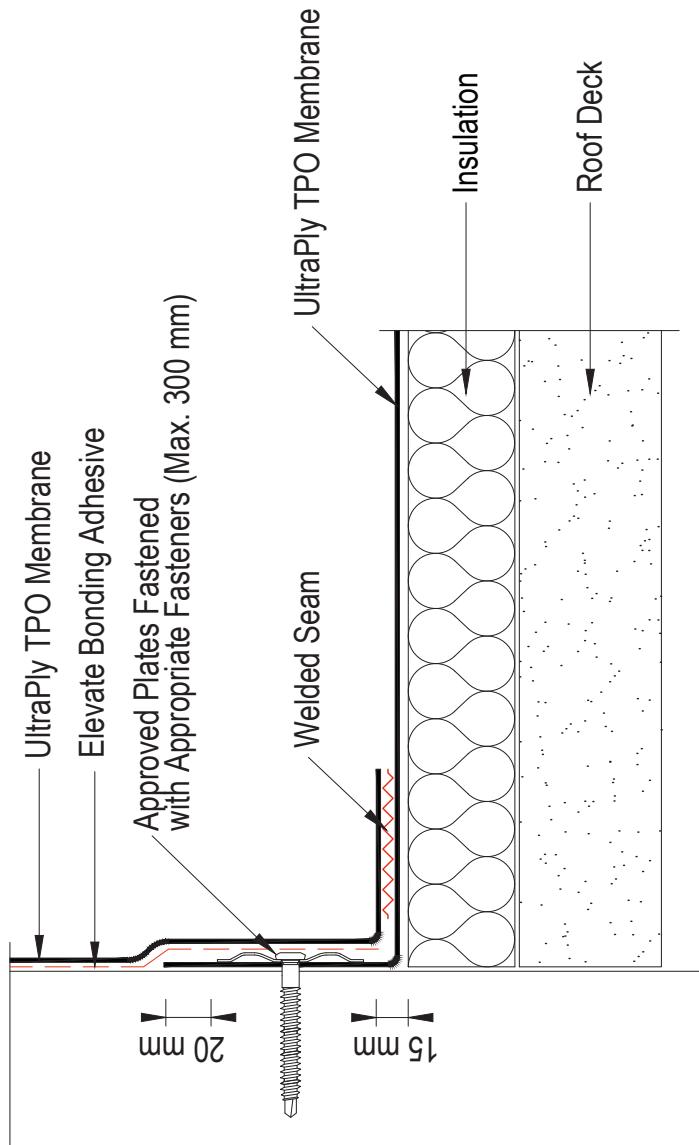
- T-BT-1 Base tie-in using plates fastened to deck
- T-BT-2 Base tie-in using plates fastened to upstand
- T-BT-3 Base tie-in using plates fastened to upstand with existing cant
- T-BT-4 Base tie-in at inside corner using HD seam plates
- T-BT-5 Base tie-in at inside corner using non-Elevate plates
- T-BT-6 Base tie-in at outside corner using HD seam plates
- T-BT-7 Base tie-in at outside corner using non-Elevate plates
- T-BT-8 Base tie-in with TPO induction welding plates

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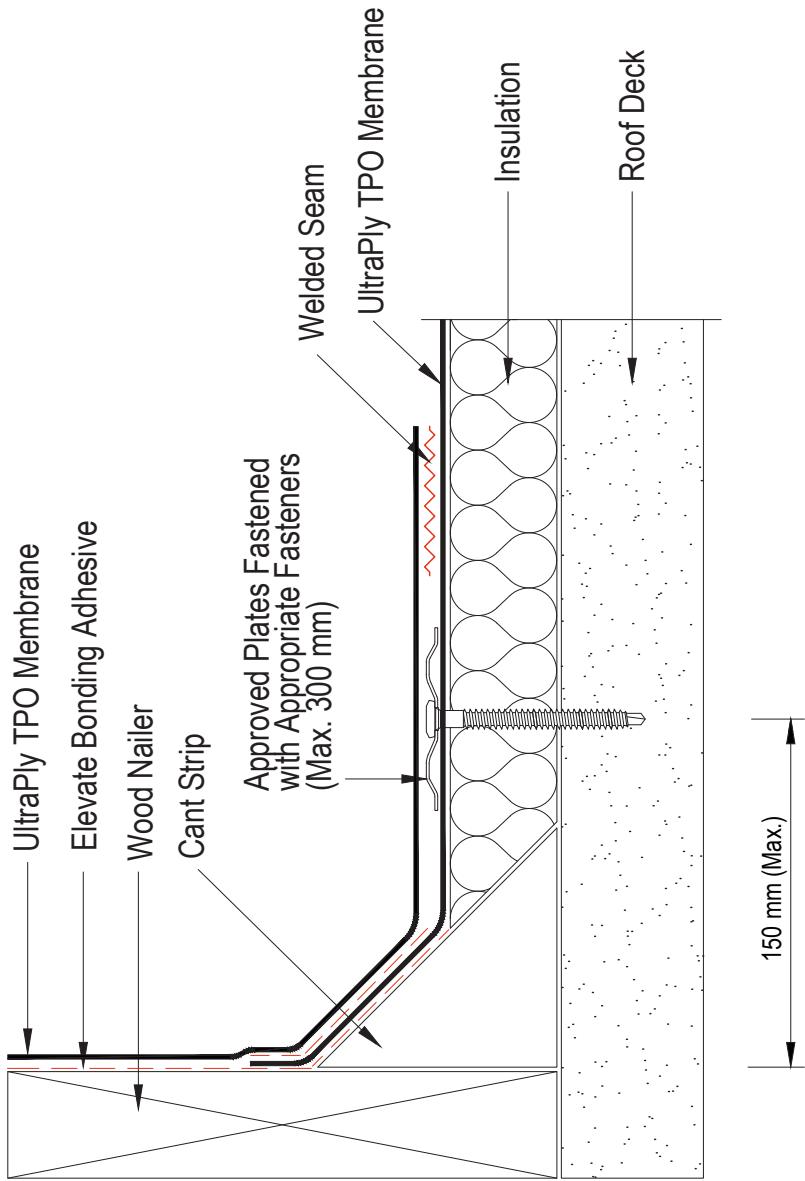
UltraPly™ TPO	System All	UT - BT - 1
Base Tie-In	Not to scale	10/2022
using Plates Fastened to Deck	EMEA & Asia	

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ELEVATE	UltraPly™ TPO	System All	UT - BT - 2
Base Tie-In using Plates Fastened to Upstand	Not to scale	10/2022	EMEA & Asia

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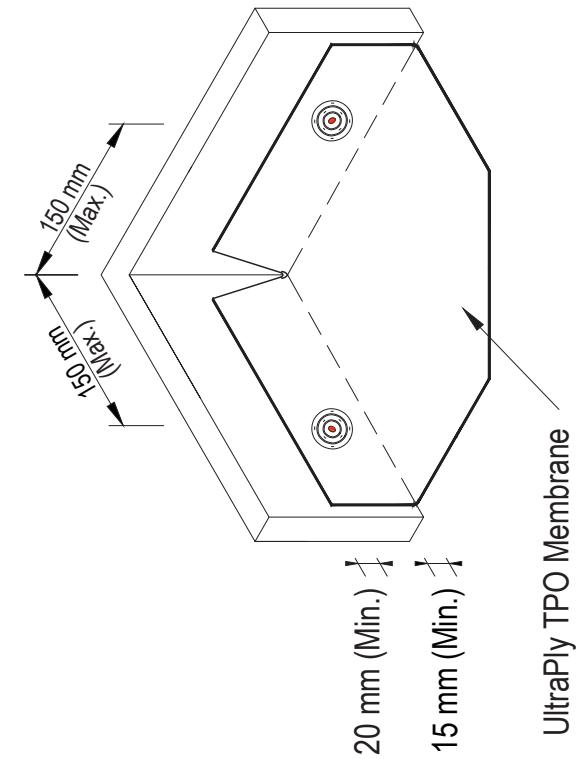


UltraPly™ TPO
Base Tie-In using plates at
Upstand with Existing Cant

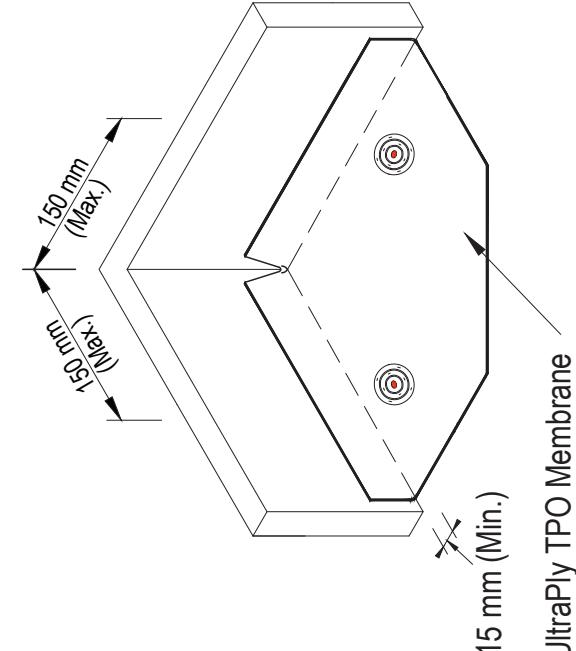
System All	UT - BT - 3
10/2022	EMEA & Asia

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Wall / Upstand Attachment



Roof Deck Attachment



Note: Base Flashings and Terminations are not shown for clarity.
Refer to appropriate Termination & Base Tie-In details.

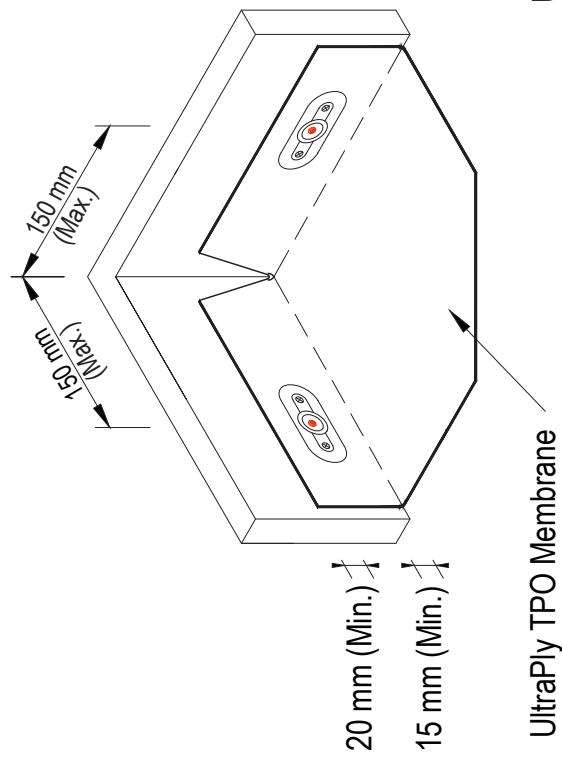


UltraPly™ TPO
Base Tie-In at Inside Corner
using HD Seam Plates

UltraPly™ TPO	System All	UT - BT - 4
Base Tie-In at Inside Corner using HD Seam Plates	Not to scale	10/2022
	EMEA & Asia	

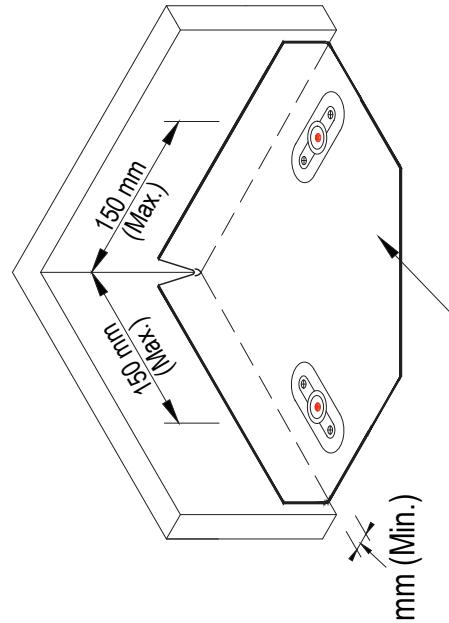
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Wall / Upstand Attachment



UltraPly TPO Membrane

Roof Deck Attachment



UltraPly TPO Membrane

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Refer to appropriate Termination & Base Tie-In details.

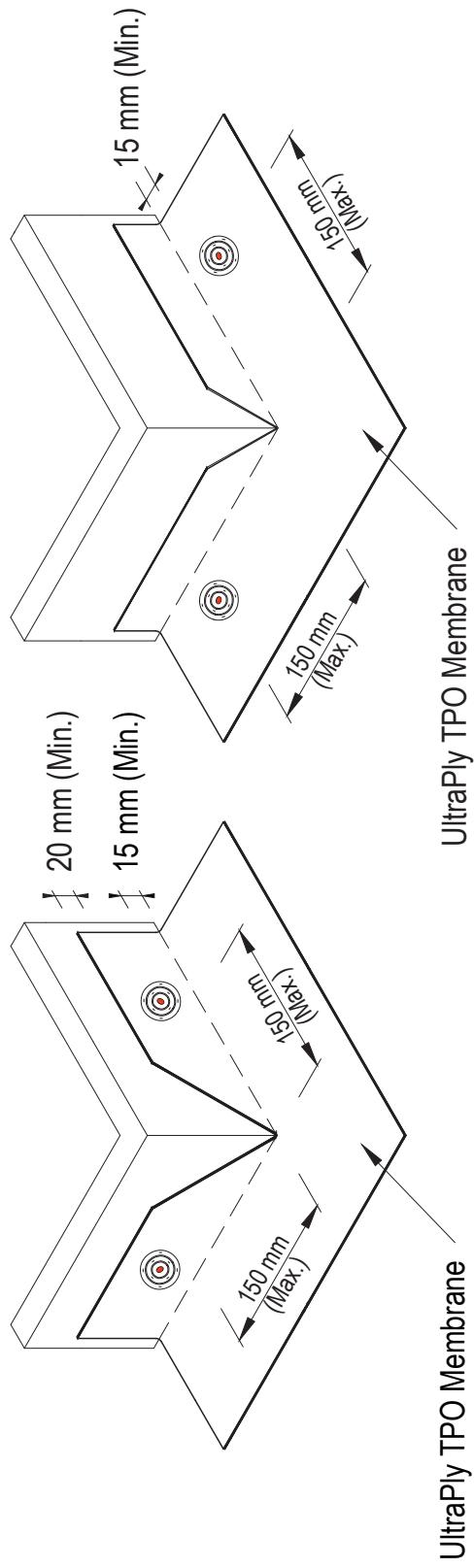


UltraPly™ TPO
Base Tie-In at Inside Corner
using non-Elevate Plates

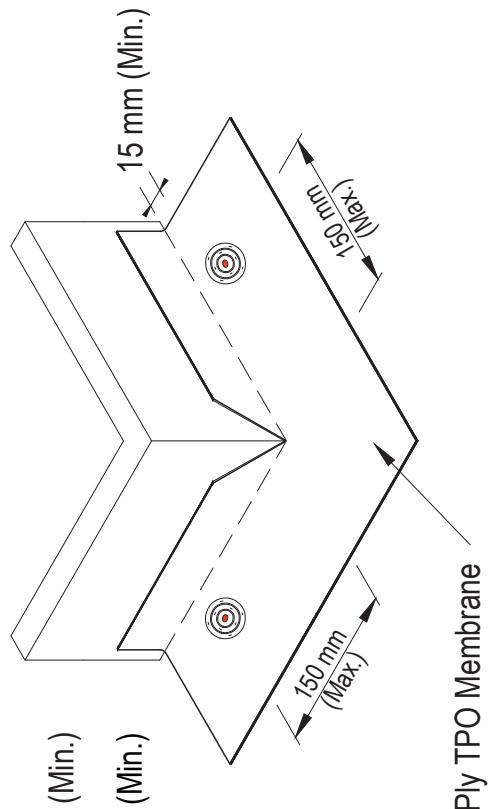
System All	UT - BT - 5
Not to scale	10/2022
	EMEA & Asia

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Wall / Upstand Attachment



Roof Deck Attachment



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Refer to appropriate Termination & Base Tie-In details.

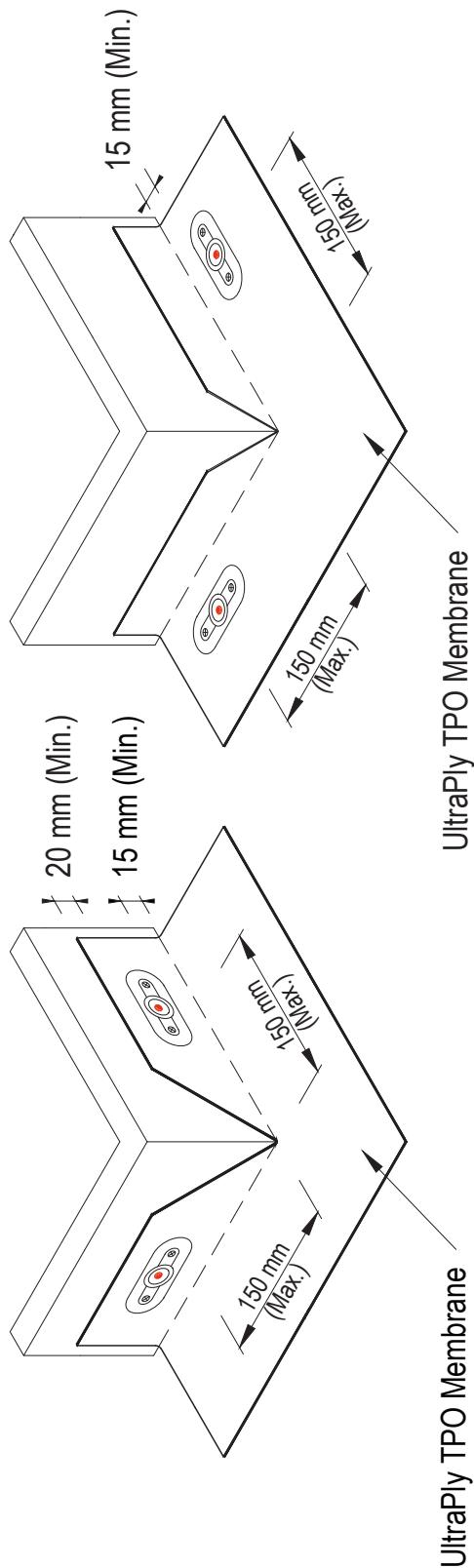


UltraPly™ TPO
Base Tie-In at Outside Corner
using HD Seam Plates

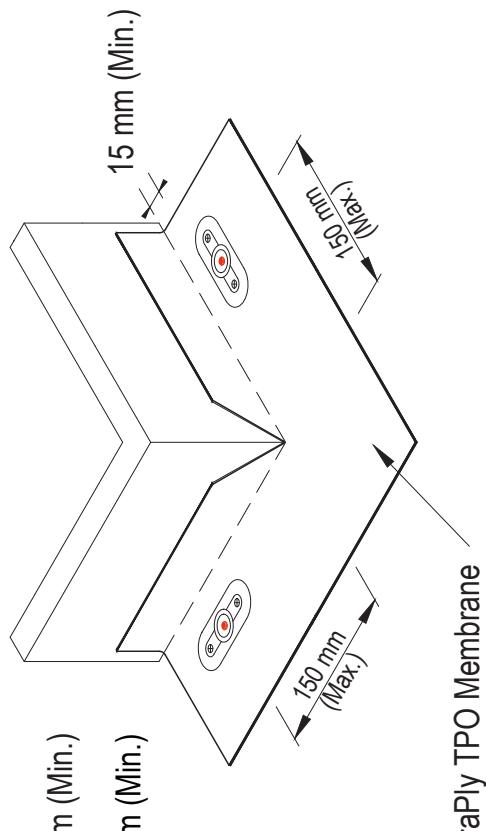
System All	UT - BT - 6
Not to scale	10/2022
EMEA & Asia	

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Wall / Upstand Attachment



Roof Deck Attachment



Note: Base Flashings and Terminations are not shown for clarity.
Refer to appropriate Termination & Base Tie-In details.

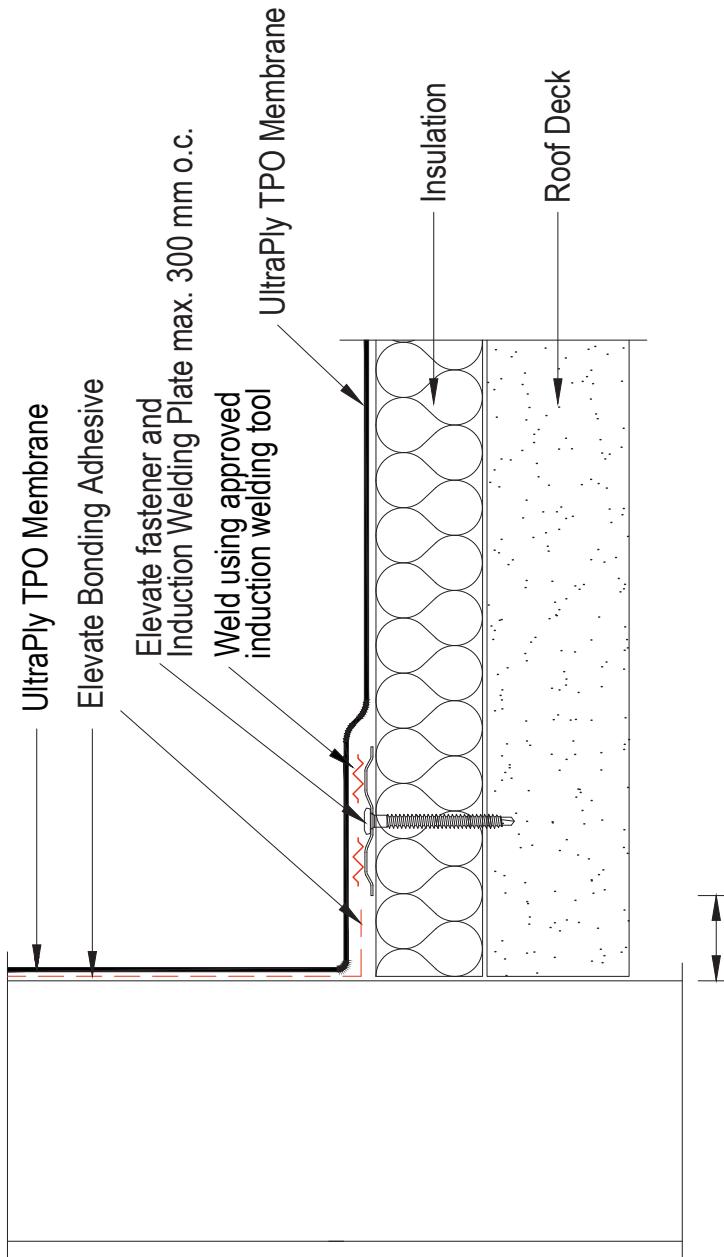


UltraPly™ TPO
Base Tie-In at Outside Corner
using non-Elevate Plates

System All	UT - BT - 7
Not to scale	10/2022

EMEA & Asia

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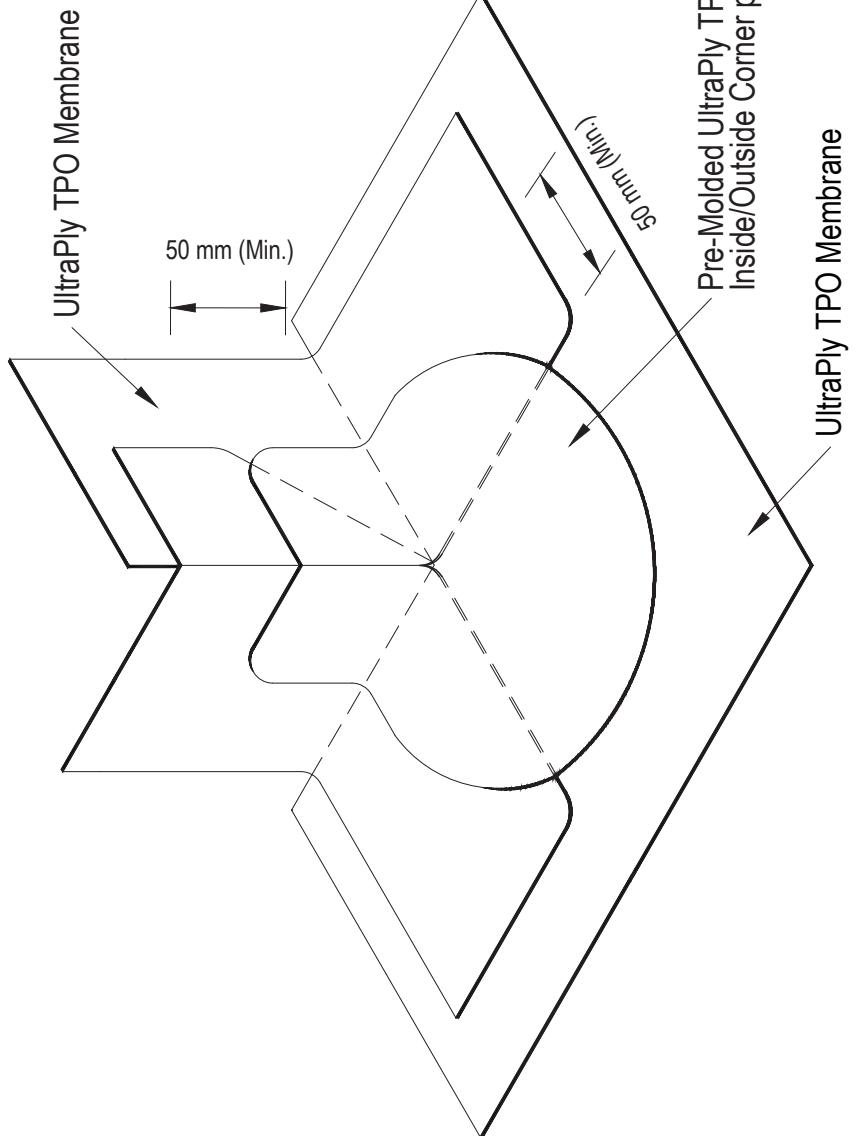


ELEVATE	UltraPly™ TPO Base Tie-In with Induction Welding Plates (Field membrane continues flashing upstand)	System All	UT - BT - 8
		Not to scale	10/2022 EMEA & Asia

5.3 Corners

- T-C-1 Outside corner using pre-molded UltraPly TPO corner piece
- T-C-2 Inside corner using pre-molded UltraPly TPO corner piece
- T-C-3 Inside corner with continuous wall flashing using pre-molded UltraPly TPO corner piece
- T-C-4 Field-fabricated inside corner with continuous wall flashing
- T-C-5 Field-fabricated inside corner
- T-C-6 Field-fabricated outside corner
- T-C-7 Field-fabricated outside corner with reinforcement patch

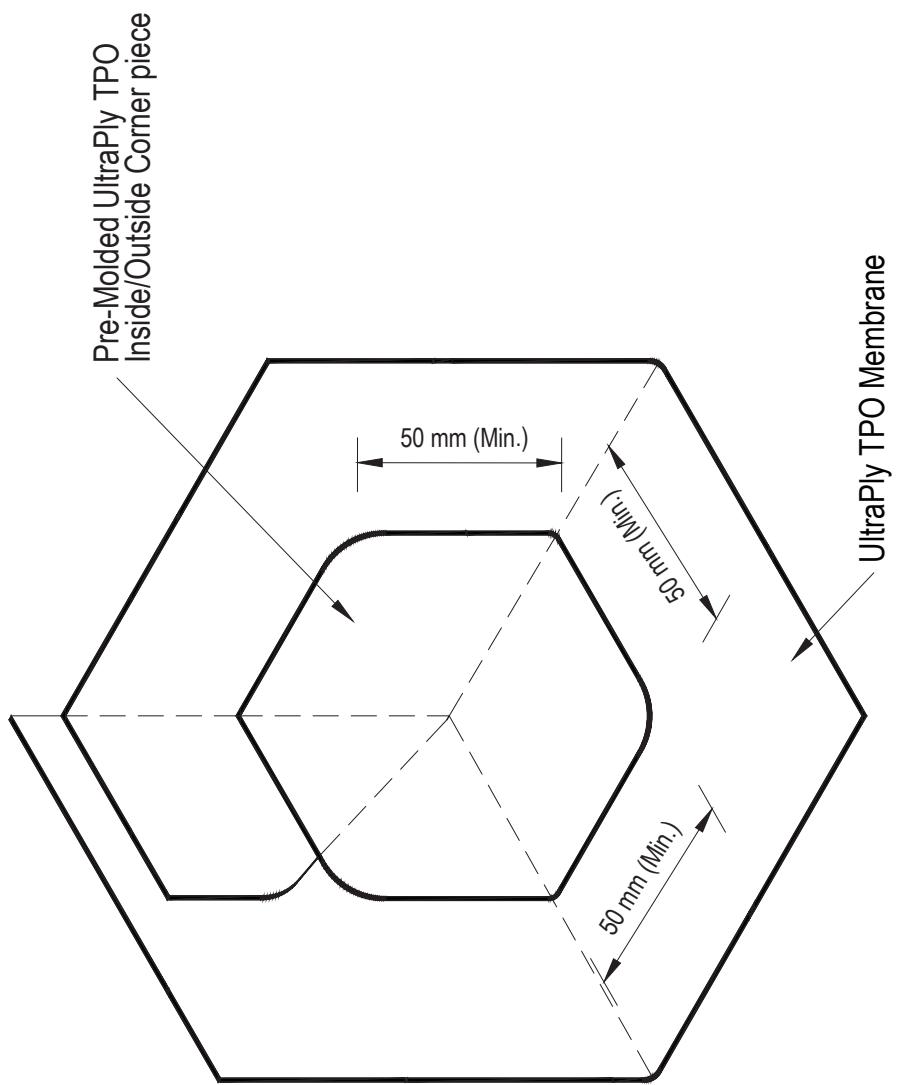
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UltraPly™ TPO
Outside Corner using Pre-Molded
UltraPly TPO corner piece

UT - C - 1	System All
10/2022	EMEA & Asia

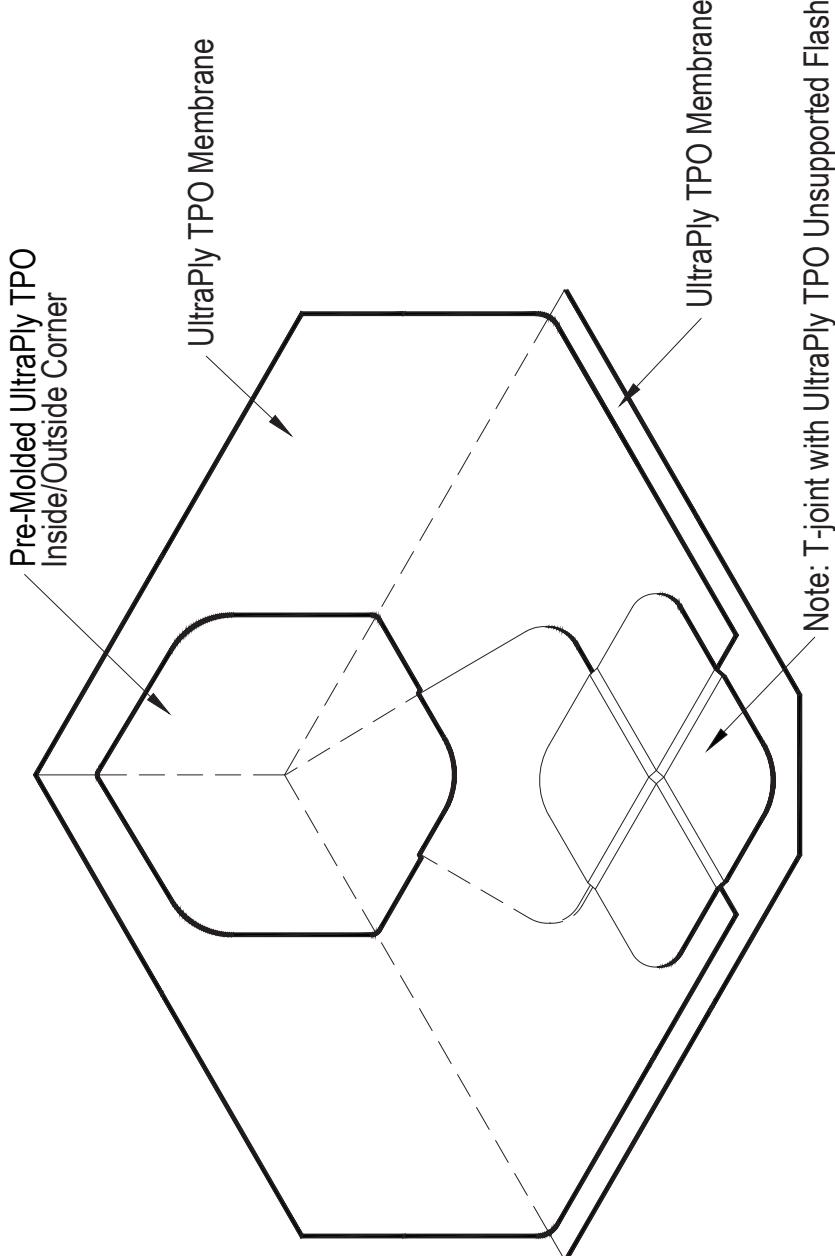
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UltraPly™ TPO	System All	UT - C - 2
Inside Corner using Pre-Molded UltraPly TPO corner piece	Not to scale	10/2022
	EMEA & Asia	



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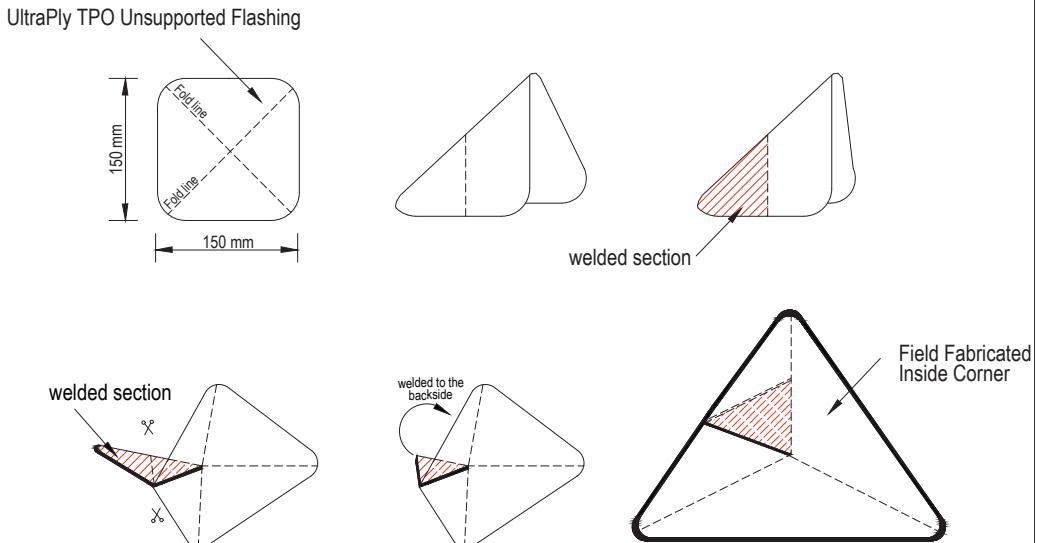


UltraPly™ TPO	System All	UT - C - 3
Inside Corner with Continuous Wall Flashing using Pre-Molded UltraPly TPO corner piece Base Tie-In using Plates Fastened to Upstand	Not to scale	10/2022 EMEA & Asia

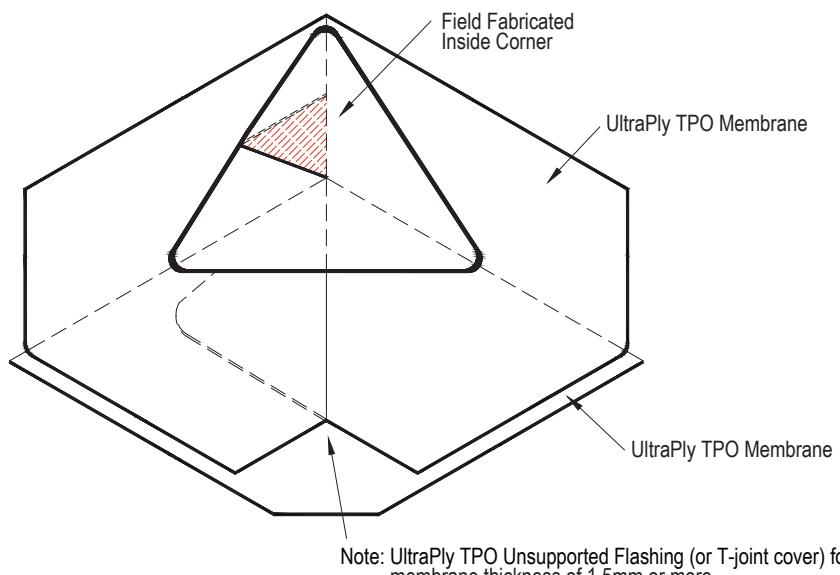
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STEP #1

UltraPly TPO Unsupported Flashing to Field Fabricated Inside Corner

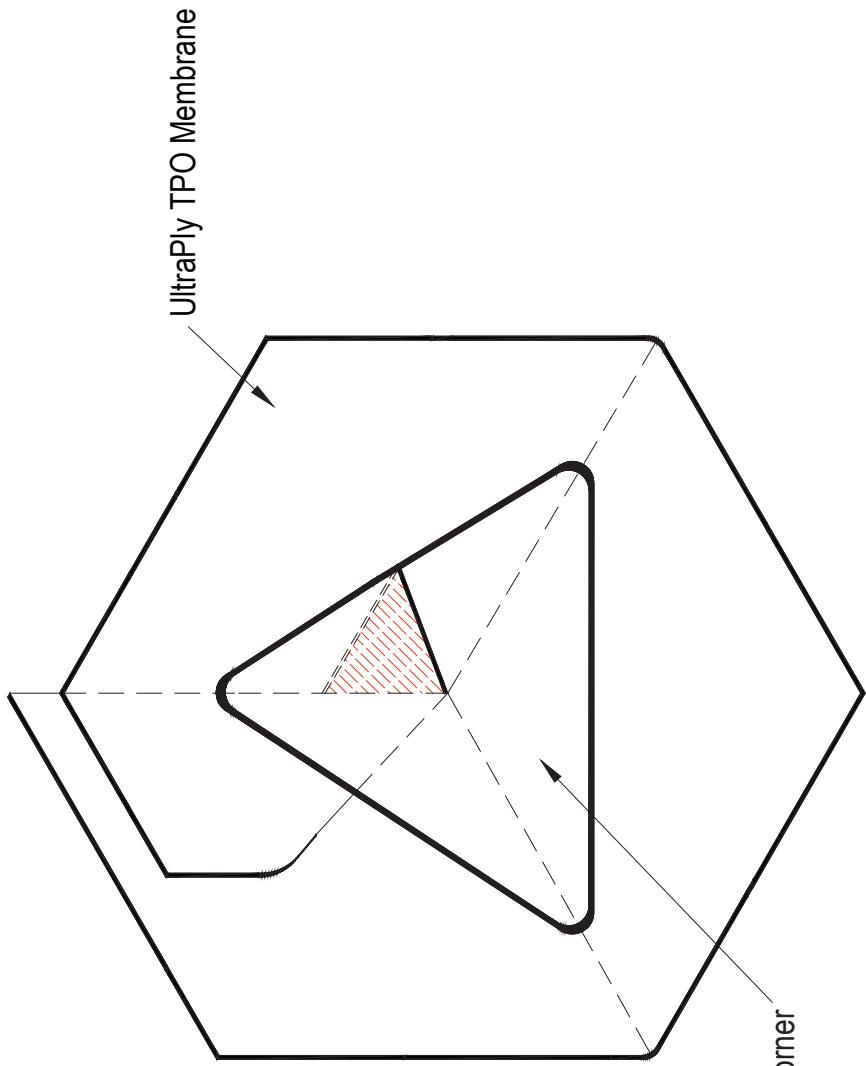


STEP #2



 ELEVATE	UltraPly™ TPO	System All	UT - C - 4
	Field Fabricated Inside Corner with Continuous Wall Flashing	Not to scale	10/2022 EMEA & Asia

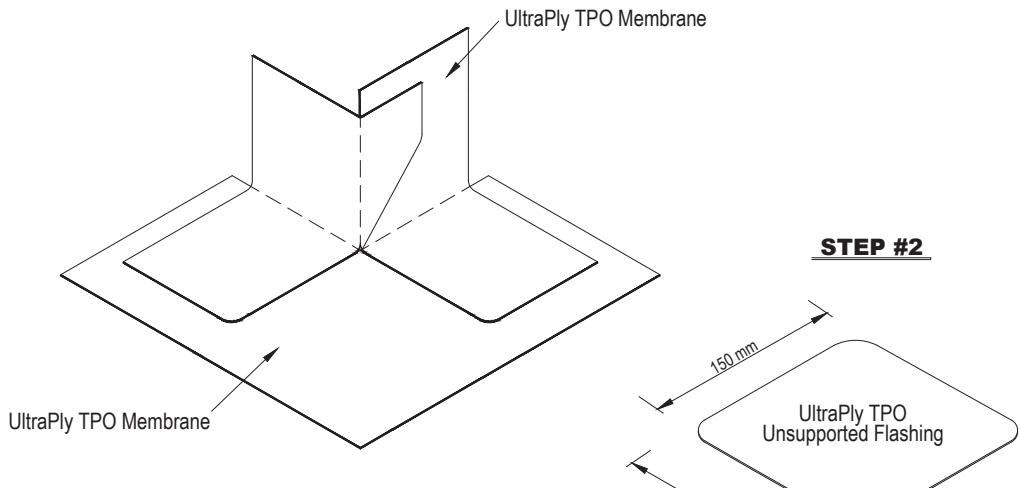
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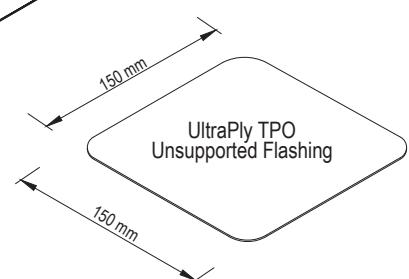
ELEVATE	UltraPly™ TPO Field Fabricated Inside Corner	System All	UT - C - 5
		Not to scale	10/2022 EMEA & Asia

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STEP #1



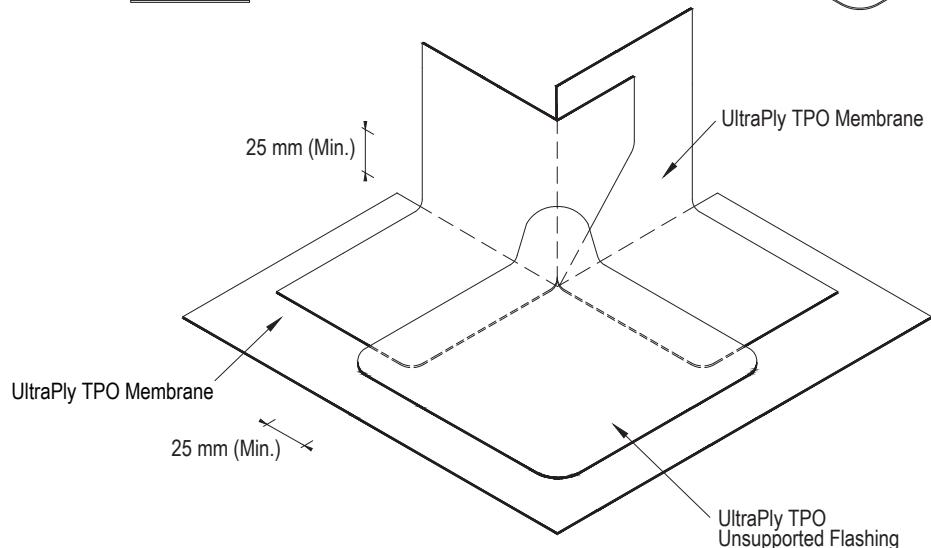
STEP #2



apply heat and form by hand
prior to installing



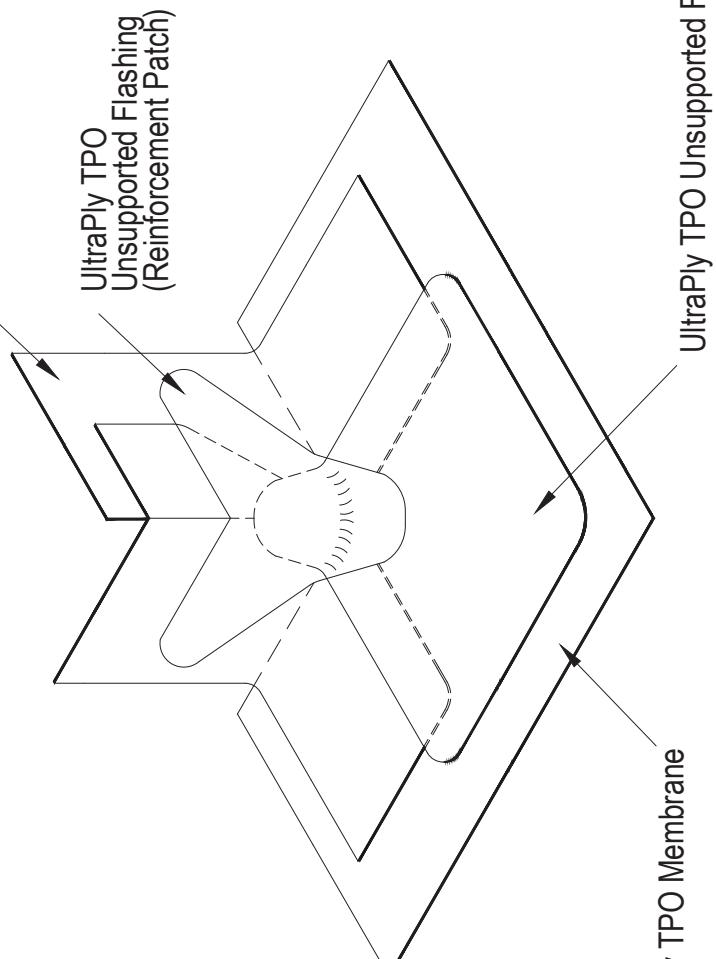
STEP #3



	UltraPly™ TPO	System All	UT - C - 6
	Field Fabricated Outside Corner	Not to scale	10/2022
			EMEA & Asia

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UltraPly TPO Membrane



apply heat and form by hand
prior to installing

UltraPly TPO Unsupported Flashing



UltraPly™ TPO
Field Fabricated Outside Corner with
Reinforcement Patch

System All	UT - C - 7
Not to scale	10/2022

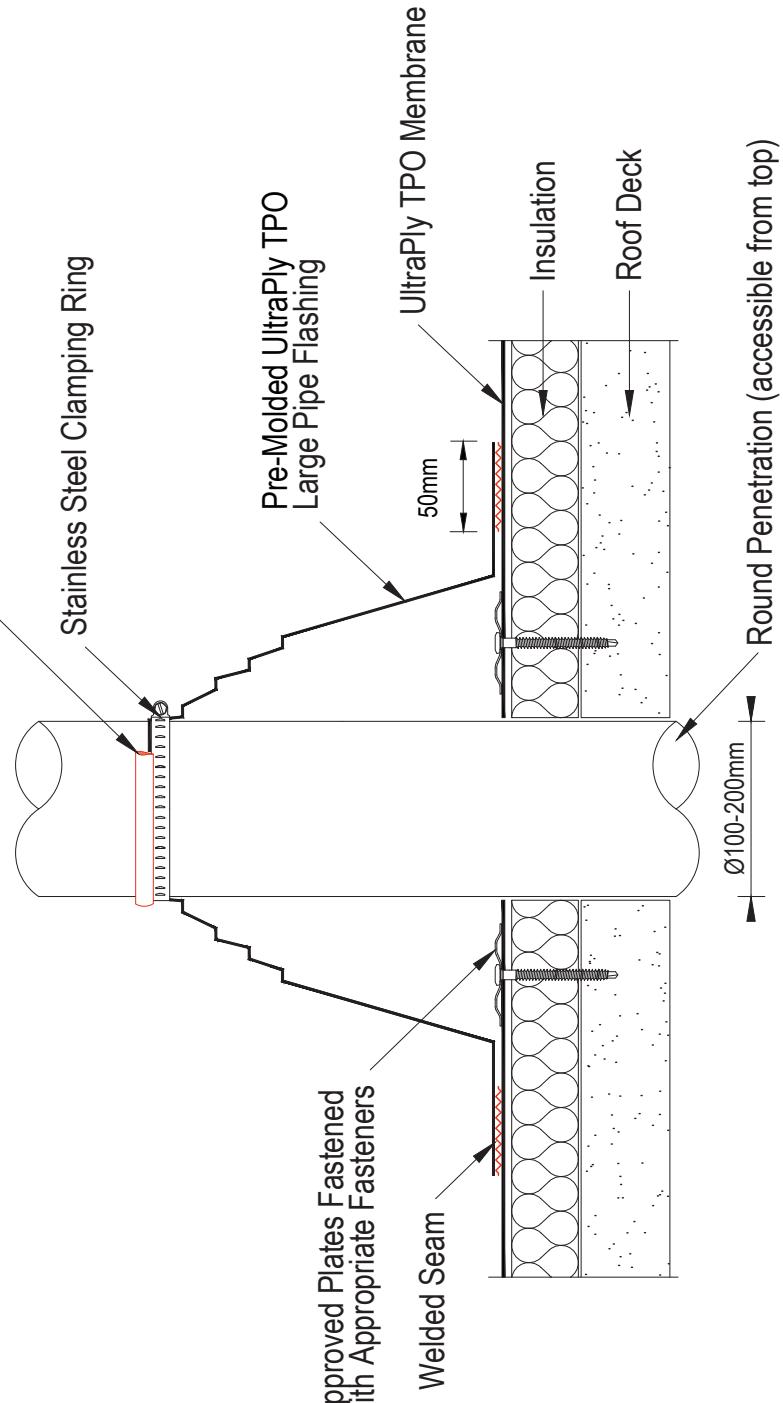
EMEA & Asia

5.4 Penetrations

- T-P-1 Penetration with UltraPly TPO Pipe Flashing
- T-P-2 Penetration with UltraPly TPO Universal Pipe flashing
- T-P-3 Penetration with UltraPly TPO Unsupported Flashing
- T-P-4 Penetration with UltraPly TPO Unsupported Flashing (alternative method)
- T-P-5 Hot pipe penetration
- T-P-6 Penetration using TPO Penetration Pocket Kit
- T-P-7 Penetration pocket using UltraPly TPO Coated Metal
- T-P-8 Membrane securement layout at penetration (target patch)
- T-P-9 Membrane securement layout at penetration (cover strips)

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Continuous Bead of UltraPly TPO GP Sealant



UltraPly™ TPO
Penetration with UltraPly TPO
Large Pipe Flashing

System All	UT - P - 1
Not to scale	10/2022
	EMEA & Asia

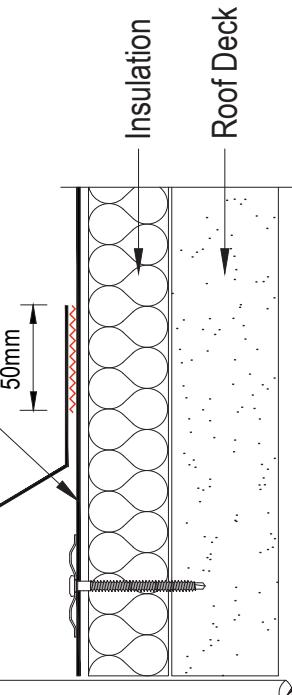
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Continuous Bead of UltraPly TPO GP Sealant

Stainless Steel Clamping Ring

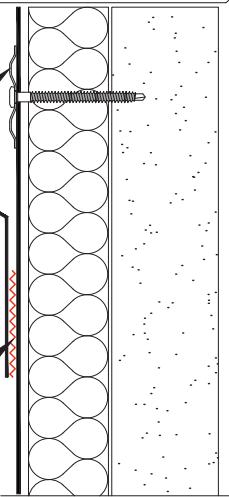
Pre-Molded UltraPly TPO Universal Pipe Flashing

UltraPly TPO Membrane



Approved Plates Fastened with Appropriate Fasteners

Welded Seam



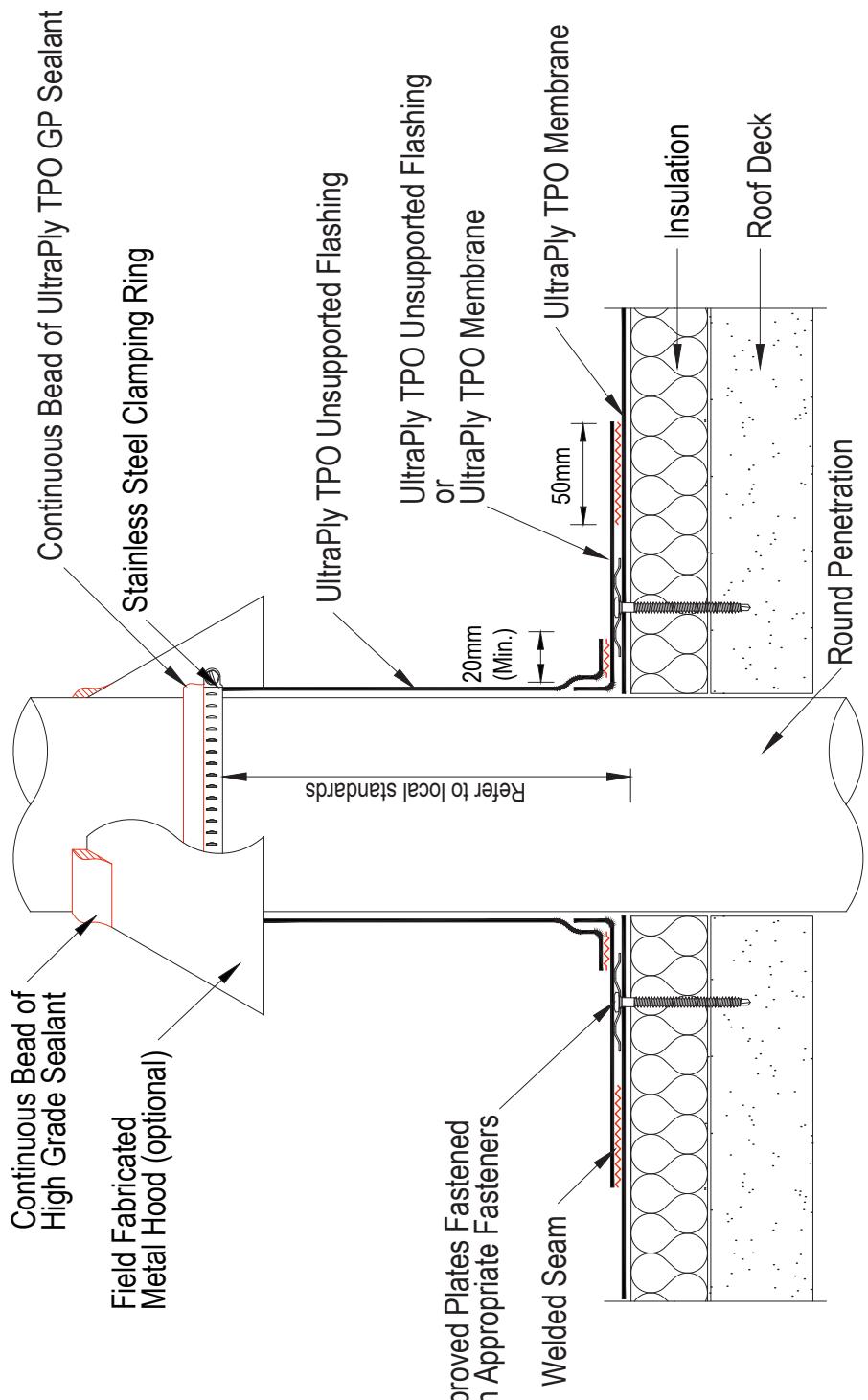
$\varnothing 25-150\text{mm}$
Round Penetration (accessible from top)



UltraPly™ TPO
Penetration with UltraPly TPO
Universal Pipe Flashing

UT - P - 2	System All
10/2022	Not to scale
	EMEA & Asia

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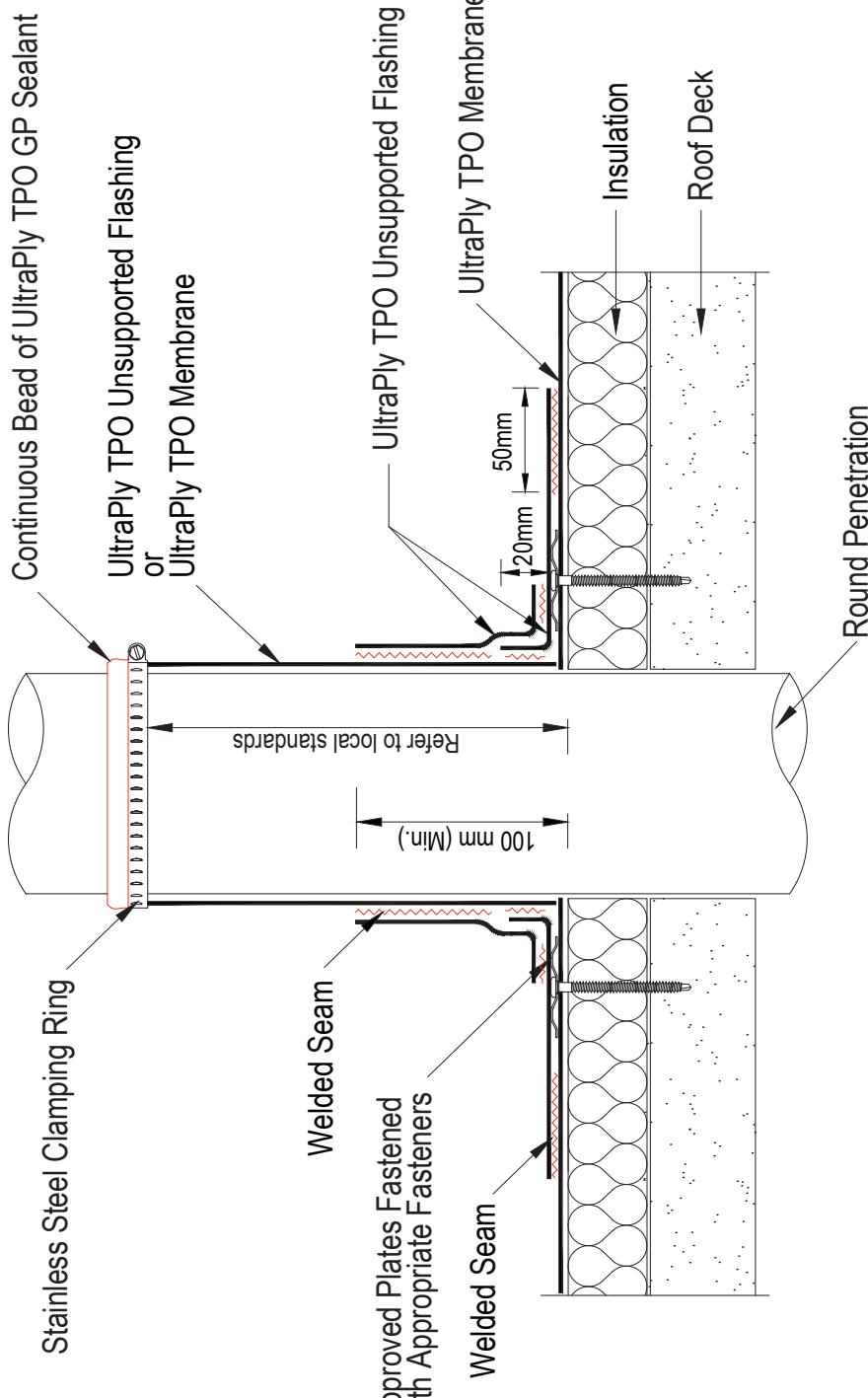


ELEVATE

UltraPly™ TPO
Penetration with UltraPly TPO
Unsupported Flashing

System All	UT - P - 3
Not to scale	10/2022
EMEA & Asia	

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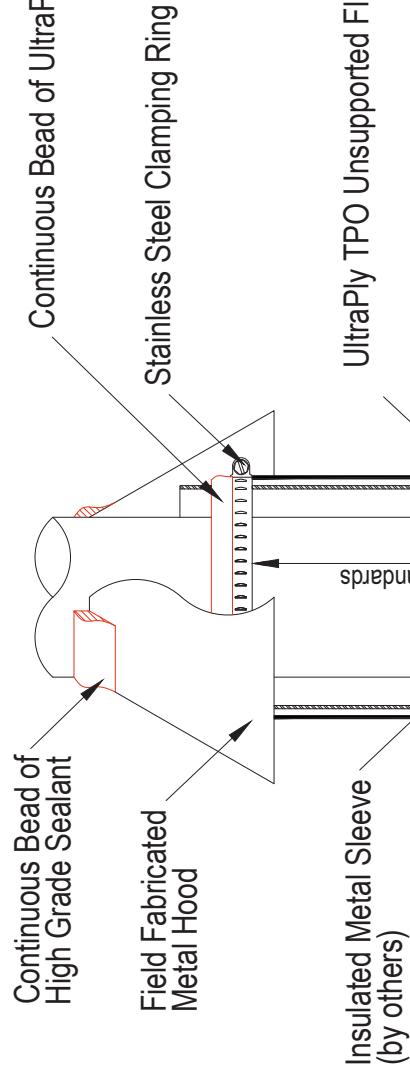
UltraPly™ TPO
Penetration with UltraPly TPO
Unsupported Flashing (Alternative method)

System All	UT - P - 4
EMEA & Asia	10/2022

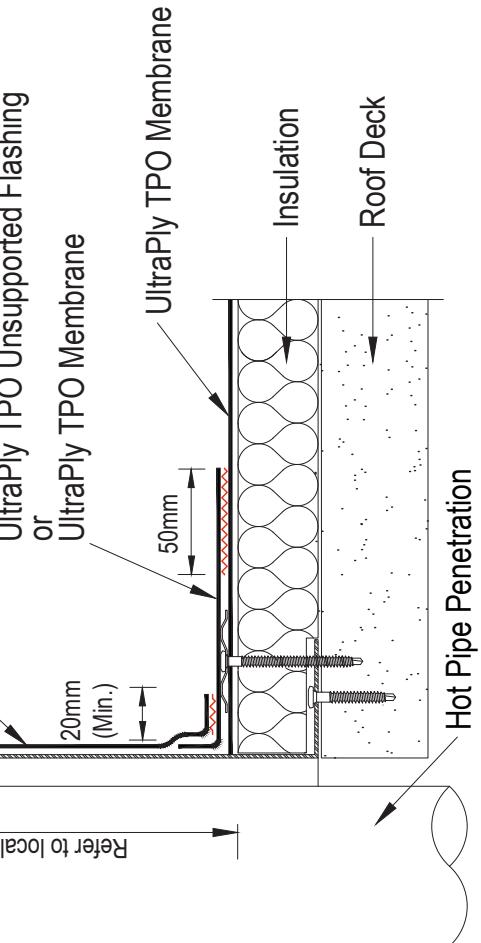
Not to scale	
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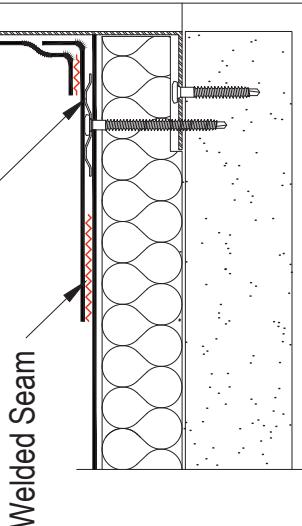
Continuous Bead of UltraPly TPO GP Sealant



UltraPly TPO Unsupported Flashing



Approved Plates Fastened with Appropriate Fasteners



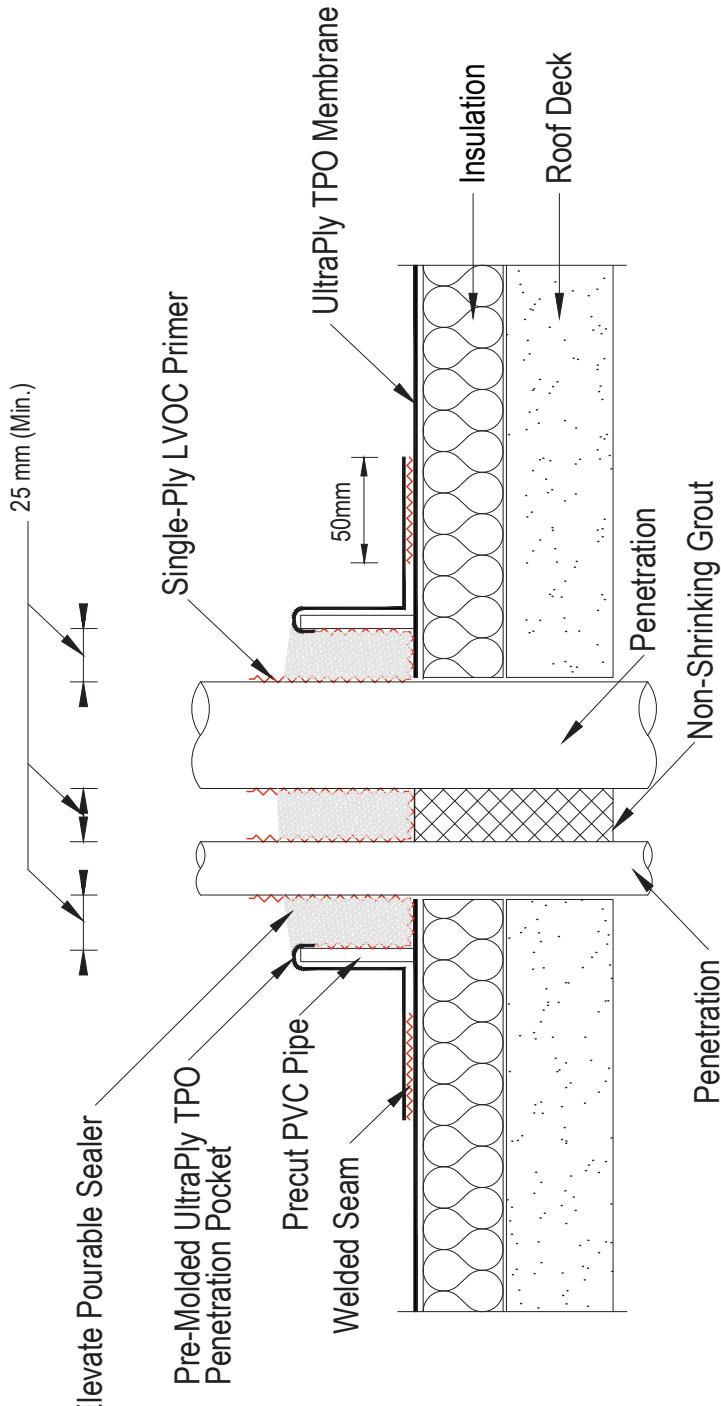
UltraPly™ TPO
Hot Pipe Penetration

UT - P - 5
10/2022

System All
Not to scale

EMEA & Asia

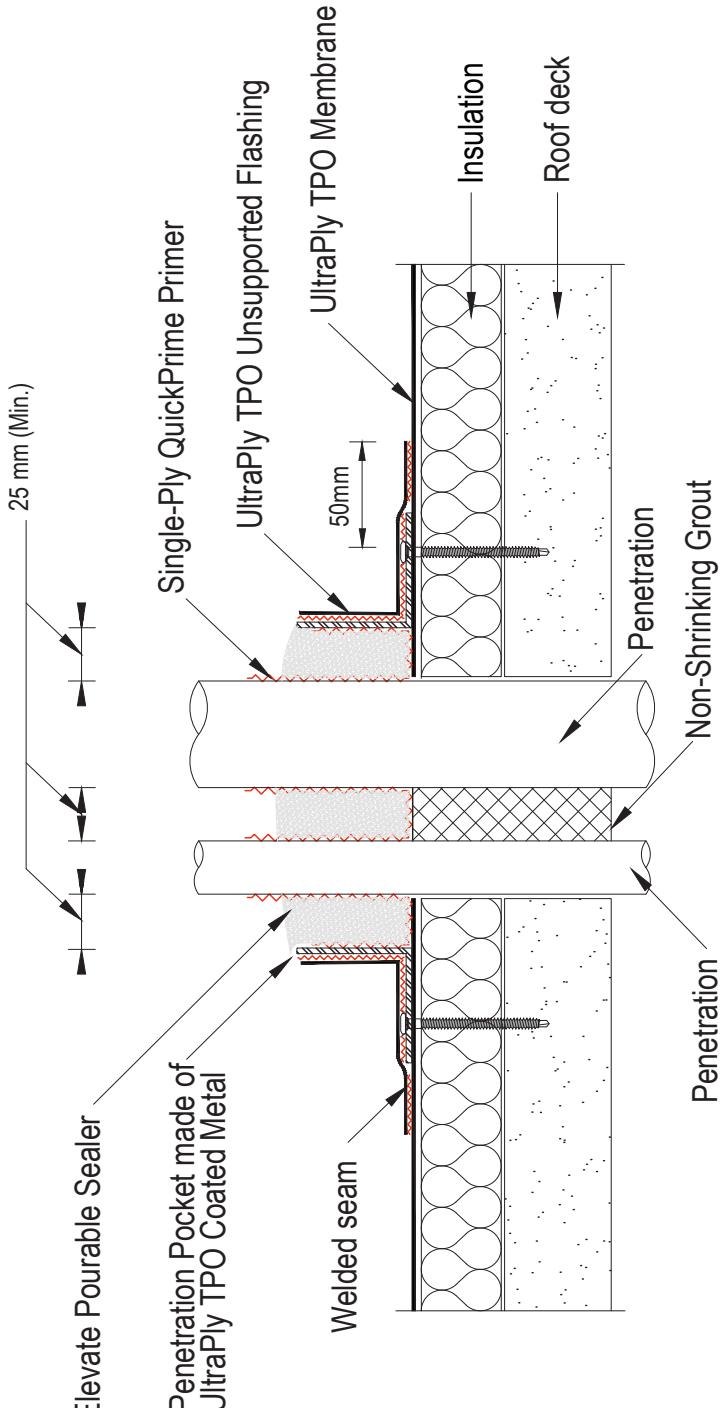
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Note: Refer to UT-P-8 Detail for appropriate base tie-in.

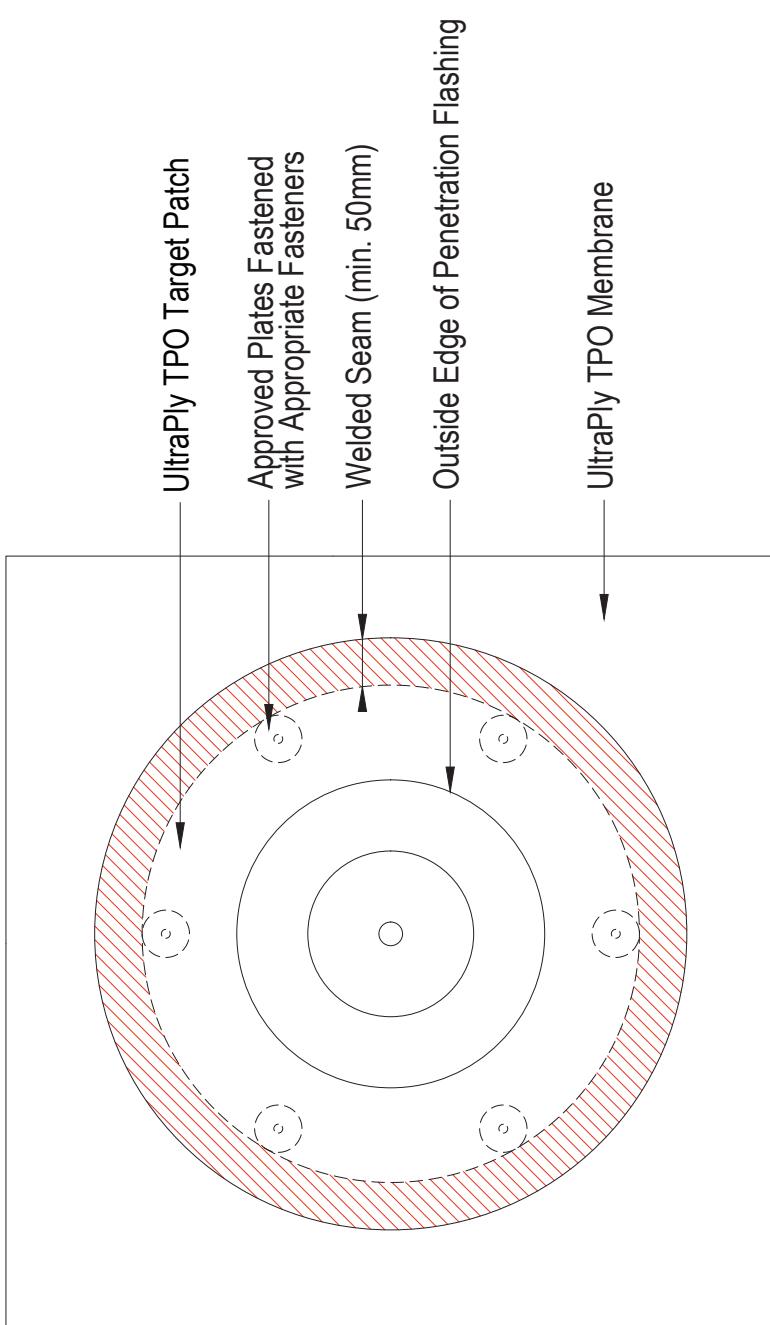
UltraPly™ TPO	System All	UT - P - 6
Penetration using UltraPly TPO Penetration Pocket Kit	Not to scale	10/2022
ELEVATE	EMEA & Asia	

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ELEVATE	UltraPly™ TPO	System All	UT - P - 7
Penetration Pocket using UltraPly TPO Coated Metal	Not to scale	10/2022	EMEA & Asia

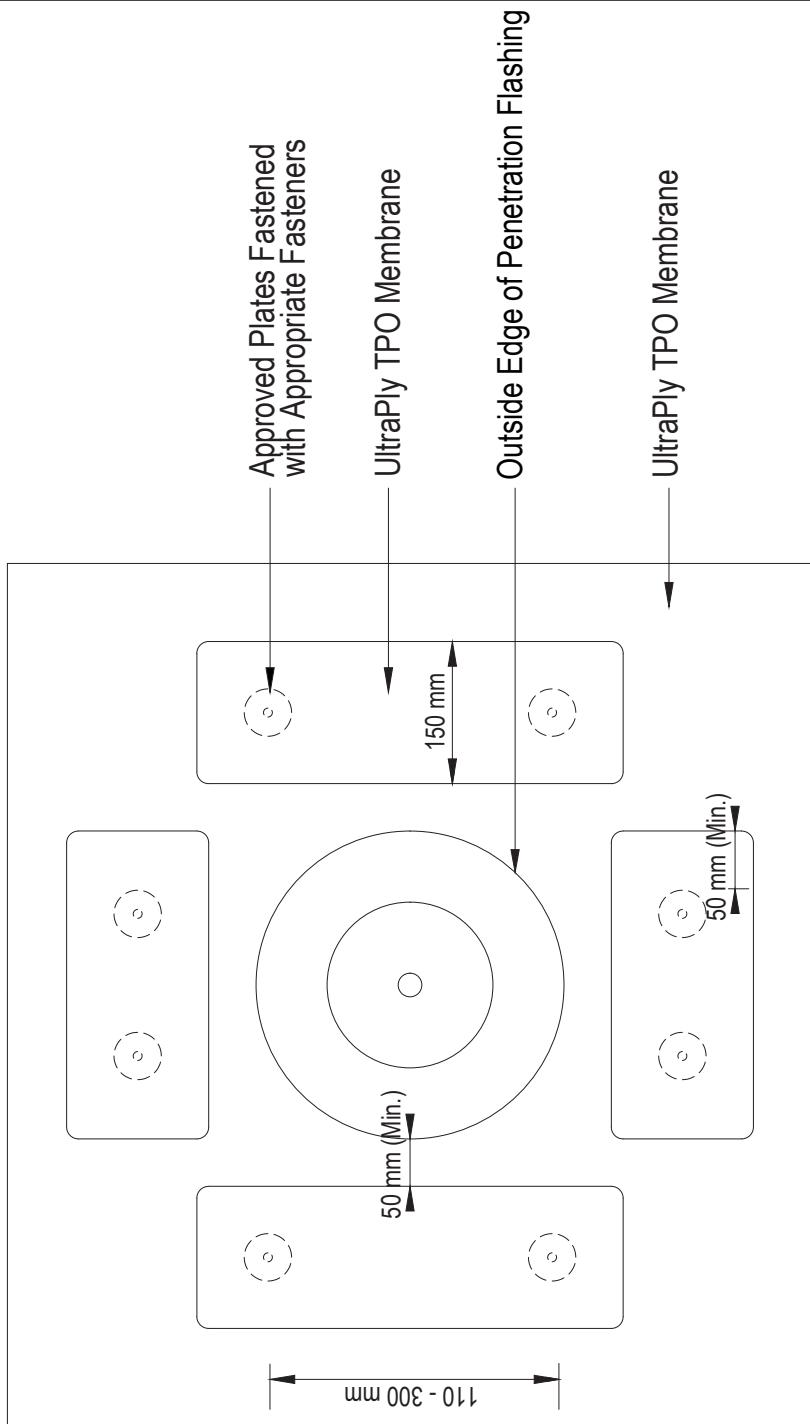
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Note: All cut membrane edges with exposed scrim must be sealed with Cut Edge Sealant.

ELEVATE	UltraPly™ TPO	System All	UT - P - 8
	Membrane Securement Layout at Penetration (Target Patch)	Not to scale	10/2022
		EMEA & Asia	

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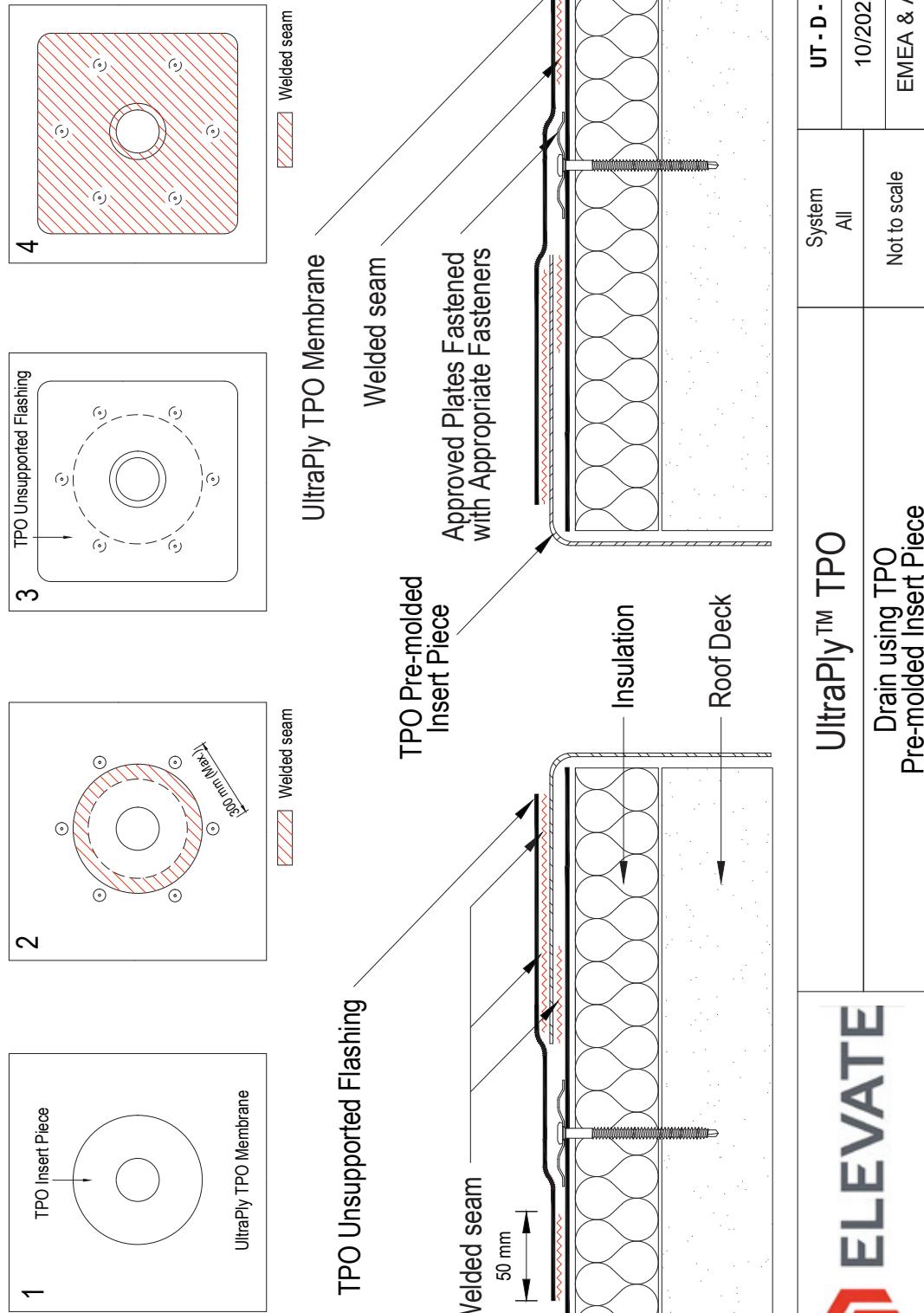
Note: All cut membrane edges with exposed scrim must be sealed with Cut Edge Sealant.

ELEVATE	UltraPly™ TPO	System All	UT - P - 9
Membrane Securement Layout at Penetration (Cover Strips)	Not to scale	10/2022	EMEA & Asia

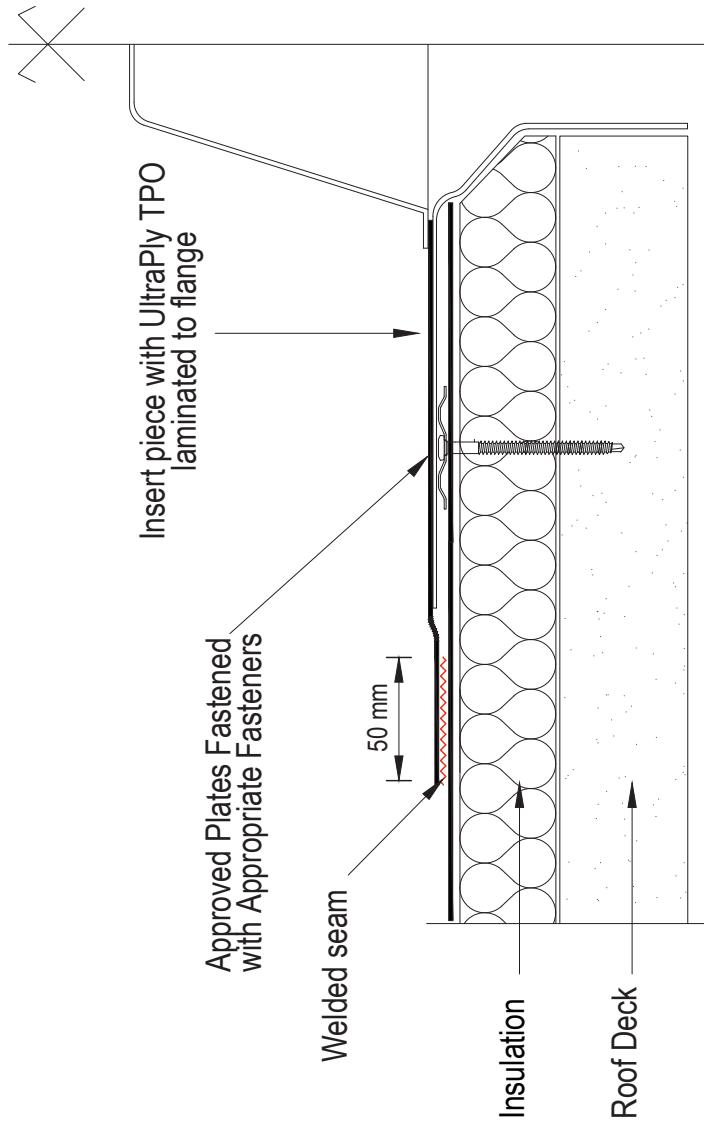
5.5 Drains

- T-D-1 Drain using TPO pre-molded insert piece
- T-D-2 Drain using insert piece with UltraPly TPO membrane laminated to flange
- T-D-3 Drain with clamping ring
- T-D-4 TPO pre-molded scupper

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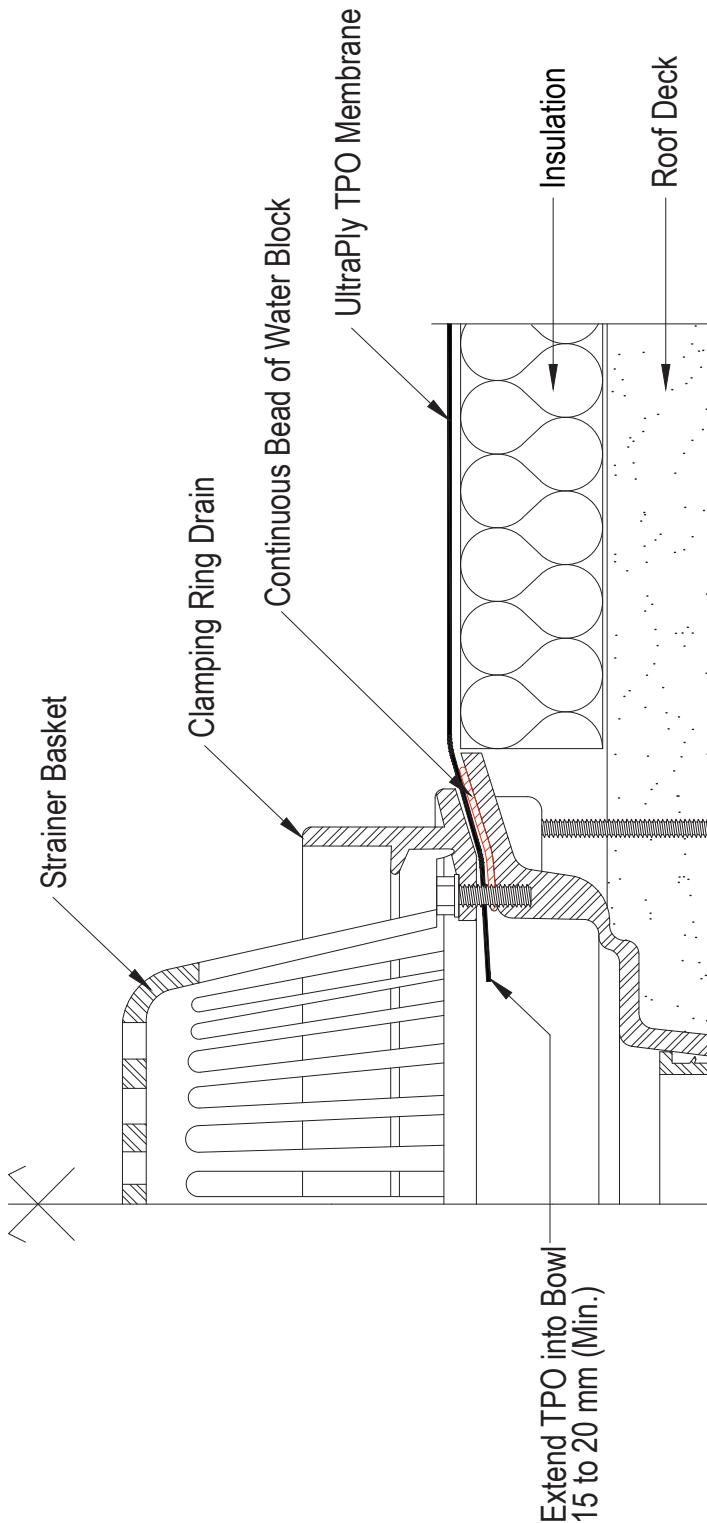
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Note: All cut membrane edges with exposed scrim must be sealed with Cut Edge Sealant.

ELEVATE	UltraPly™ TPO	System All	UT - D - 2
Drain using Insert piece with UltraPly TPO laminated to flange	Not to scale	10/2022	EMEA & Asia

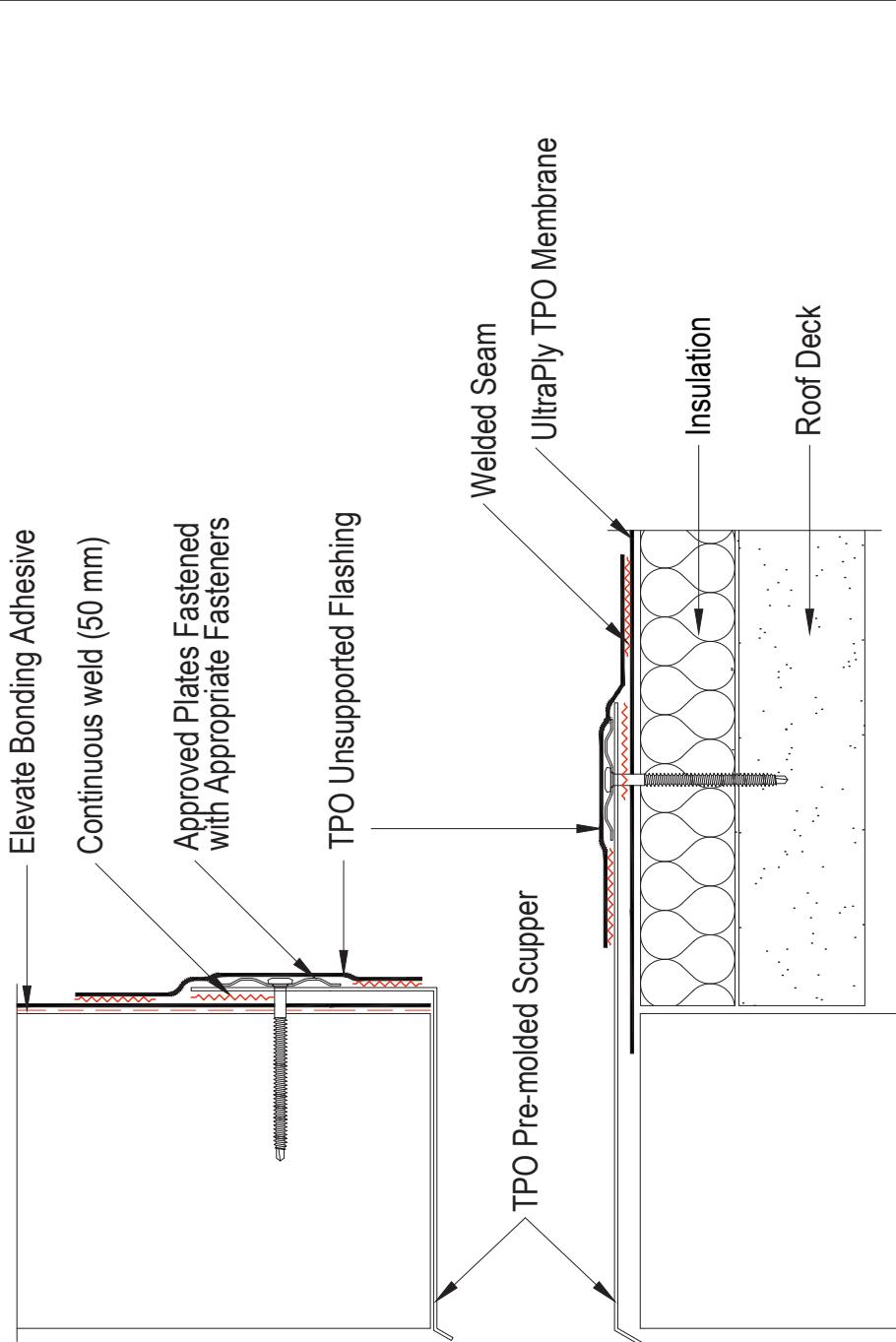
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Notes: Maximum slope to Drain is 1:12.
Apply Water Block in case
clamping system is used without rubber rings

ELEVATE	UltraPly™ TPO	System All	UT - D - 3
	Drain with Clamping Ring	Not to scale	10/2022 EMEA & Asia

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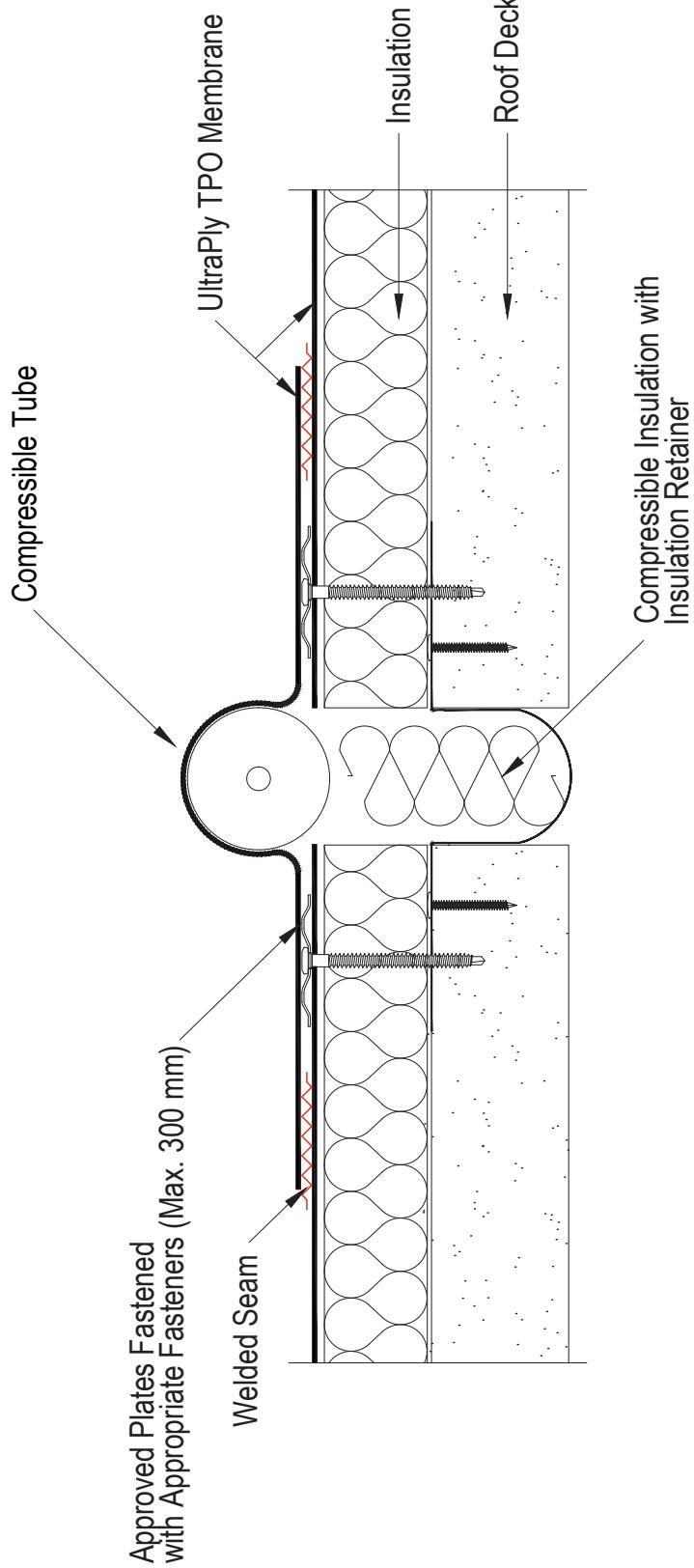
UltraPly™ TPO	System All	UT - D - 4
TPO Pre-molded Scupper	Not to scale	10/2022 EMEA & Asia



5.6 Expansion joints

- T-E-1 Flat expansion joint
- T-E-2 Raised expansion joint
- T-E-3 Raised expansion joint with metal joint cover
- T-E-4 Wall expansion joint

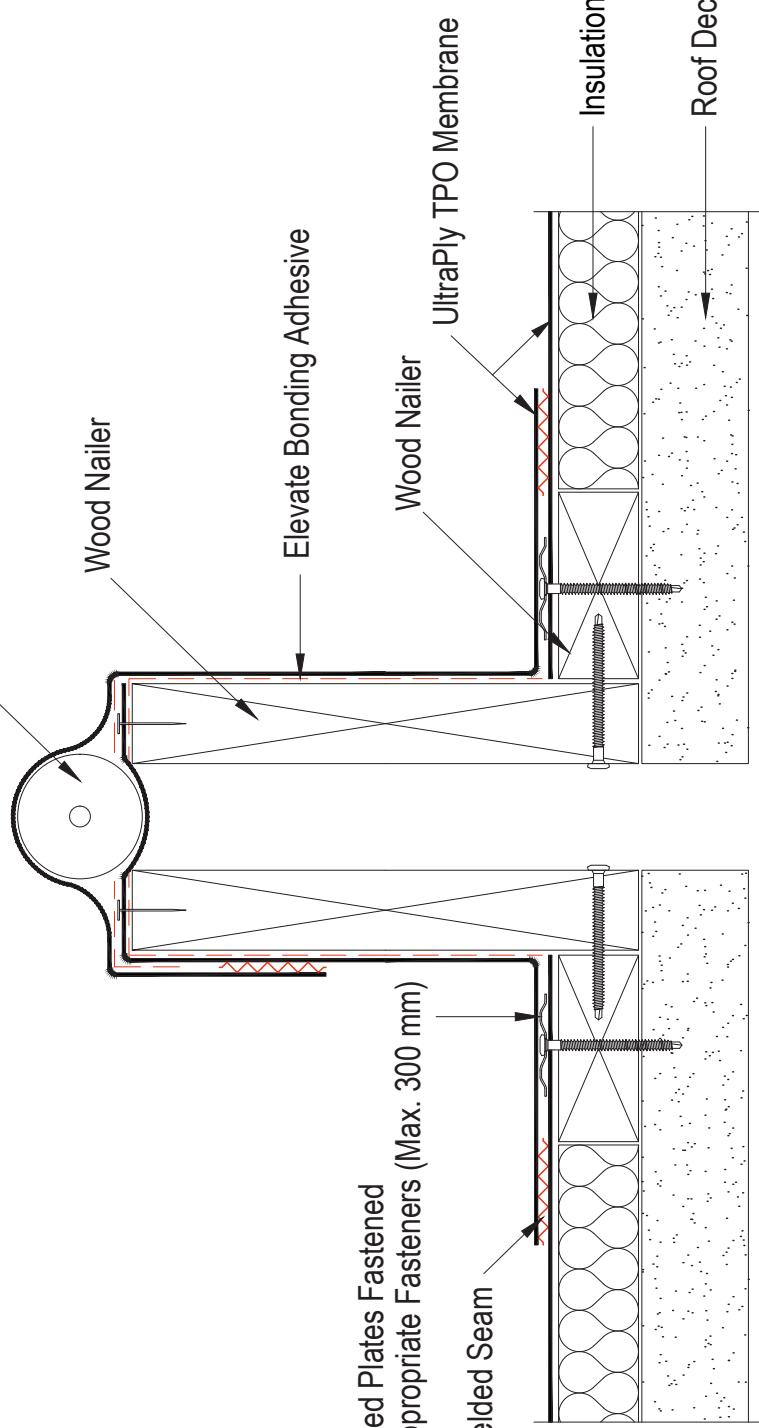
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ELEVATE	UltraPly™ TPO	System All	UT - E - 1
Flat Expansion Joint	Not to scale	10/2022	EMEA & Asia

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Compressible Tube



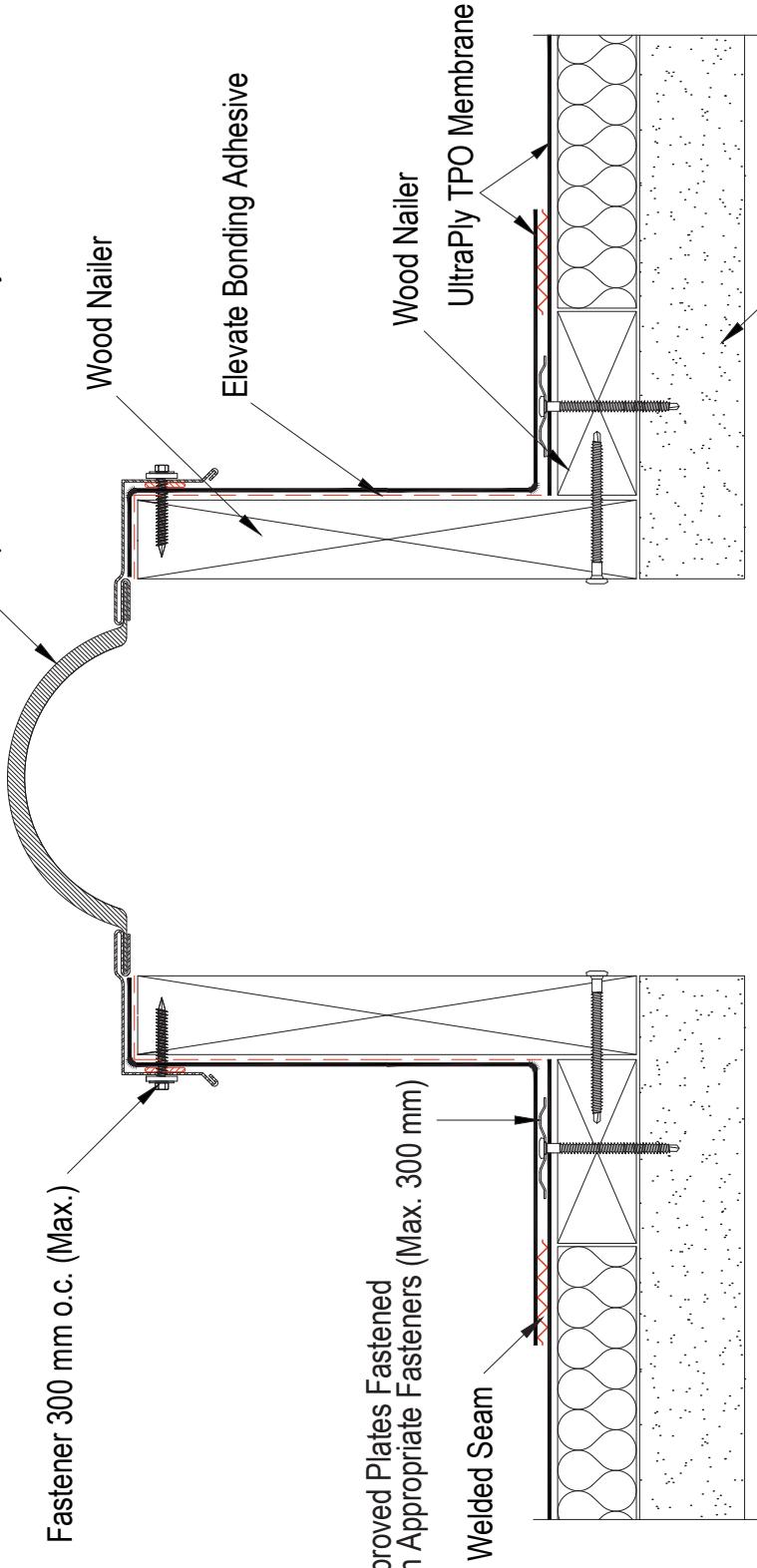
UltraPly™ TPO
Raised Expansion Joint

System All	UT - E - 2
Not to scale	10/2022

EMEA & Asia

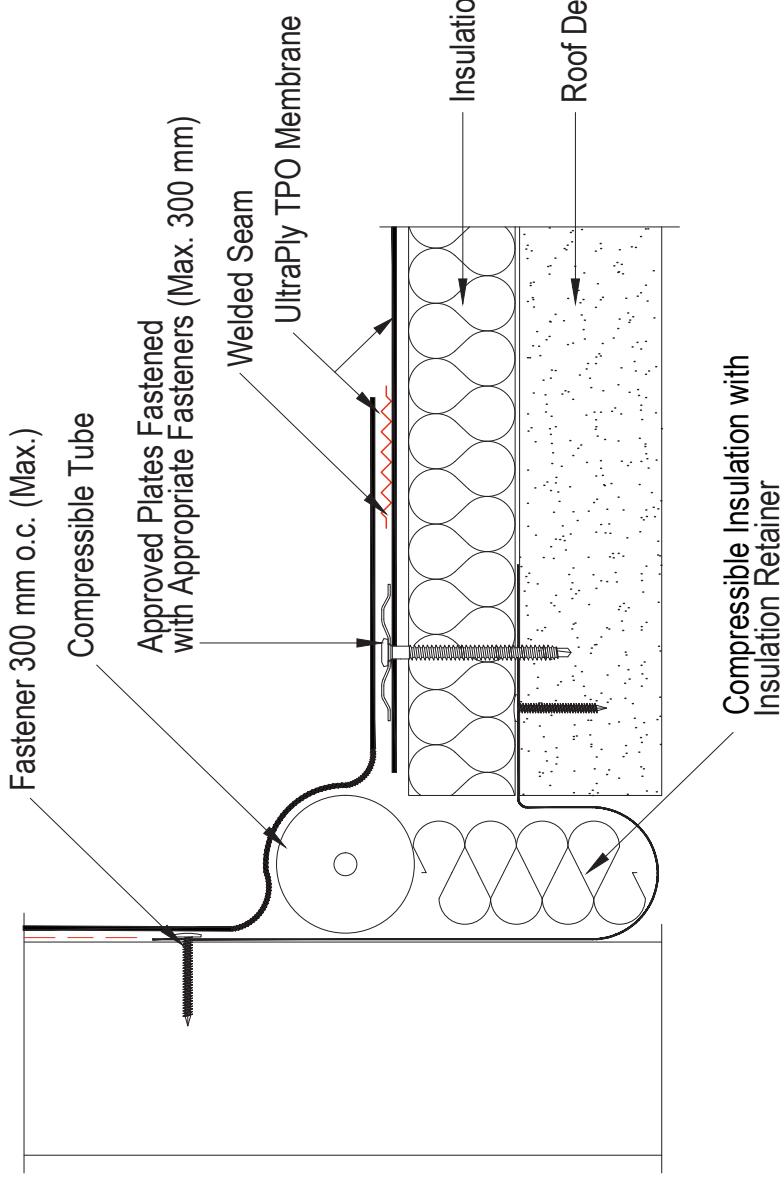
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Expansion Joint Cover by others



UltraPly™ TPO	System All	UT - E - 3
Raised Expansion Joint with Metal Joint Cover	Not to scale	10/2022 EMEA & Asia

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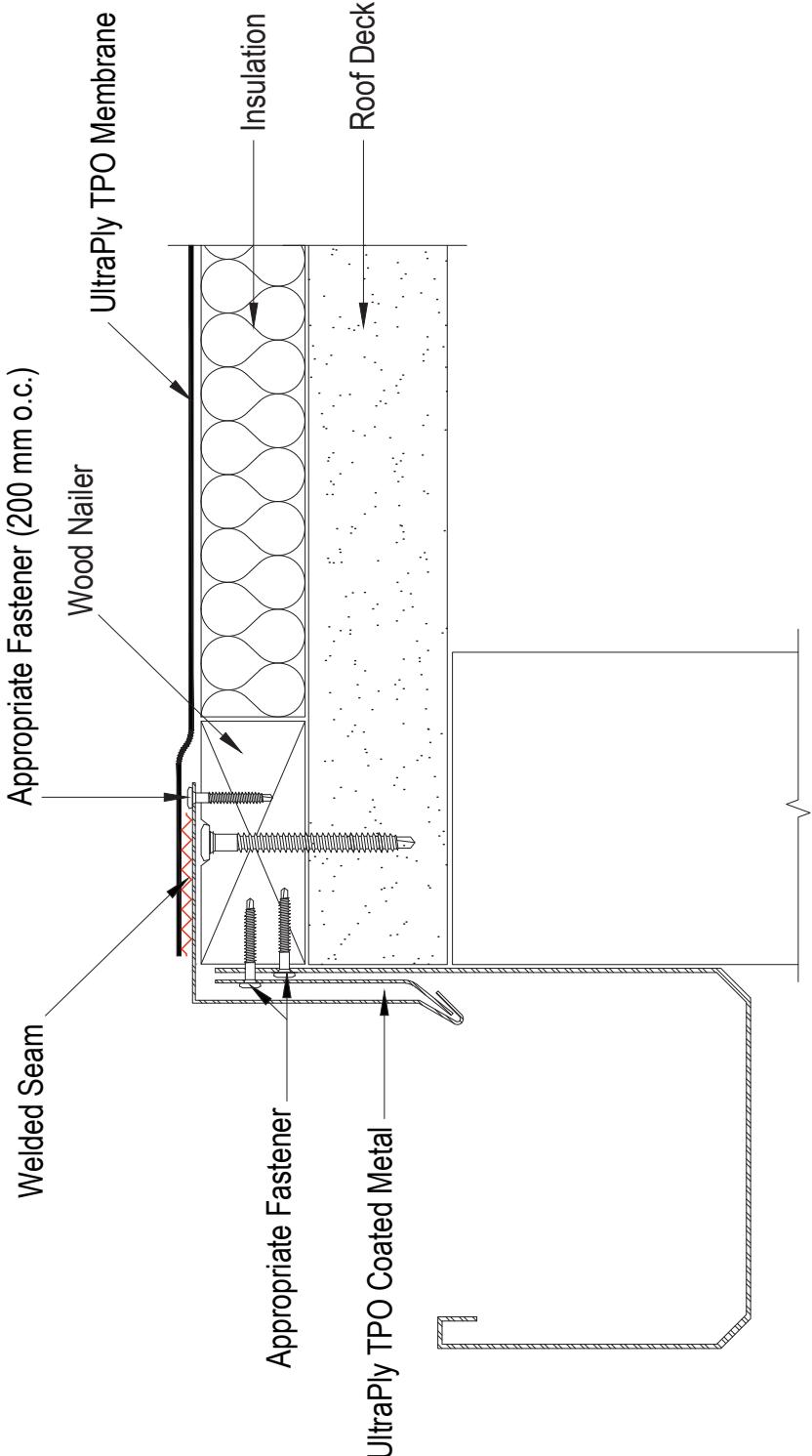
UltraPly™ TPO
Wall Expansion Joint

UltraPly™ TPO	System All	UT - E - 4
Wall Expansion Joint	Not to scale	10/2022
	EMEA & Asia	

5.7 Roof edges

- T-RE-1 Roof edge gutter using profile of UltraPly TPO Coated Metal
- T-RE-2 Roof edge using profile of UltraPly TPO Coated Metal
- T-RE-3 Joint between profiles of UltraPly TPO Coated Metal
- T-RE-4 Roof edge with edge profile
- T-RE-5 Alternative roof edge with edge profile
- T-RE-6 Roof edge using TPO QuickSeam Flashing

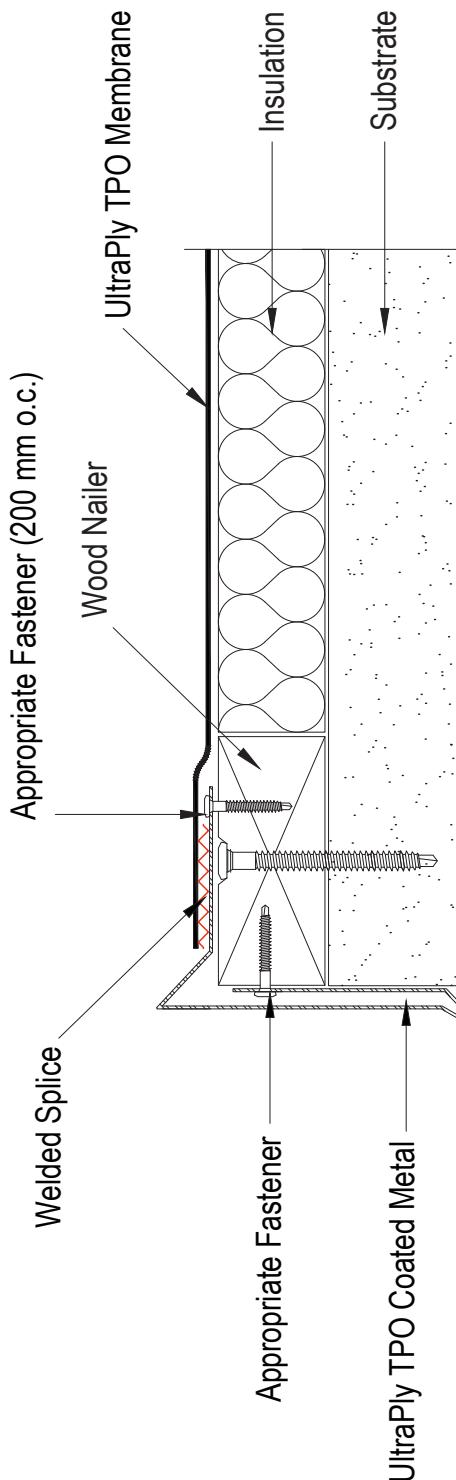
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UltraPly™ TPO
Roof Edge Gutter using profile of
UltraPly TPO Coated Metal

System All	UT - RE - 1
Not to scale	10/2022
EMEA & Asia	

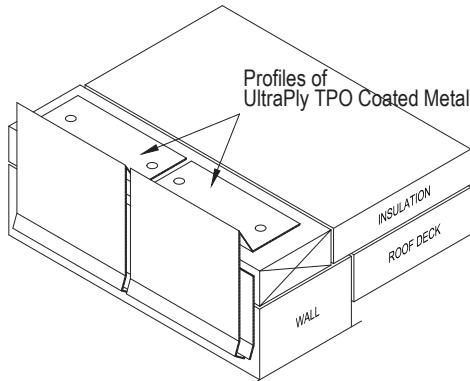
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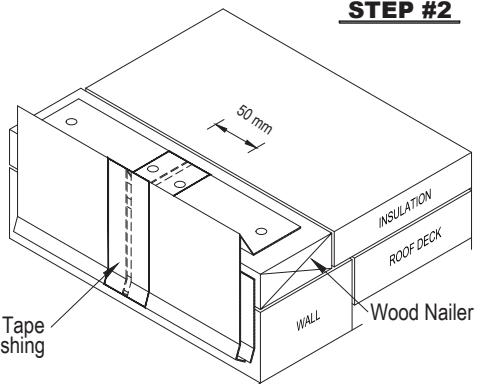
ELEVATE	UltraPly™ TPO	System All	UT - RE - 2
	Roof Edge with UltraPly TPO Coated Metal	Not to scale	10/2022
		EMEA & Asia	

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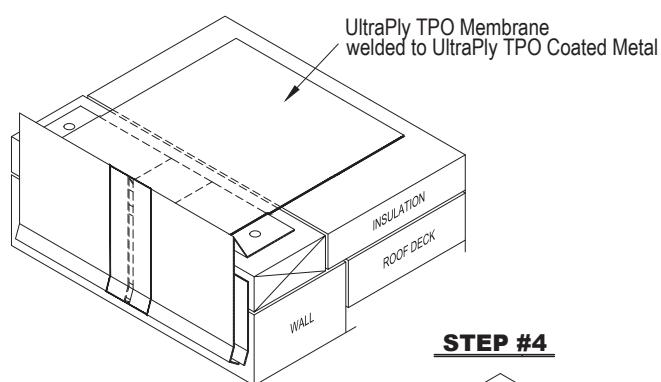
STEP #1



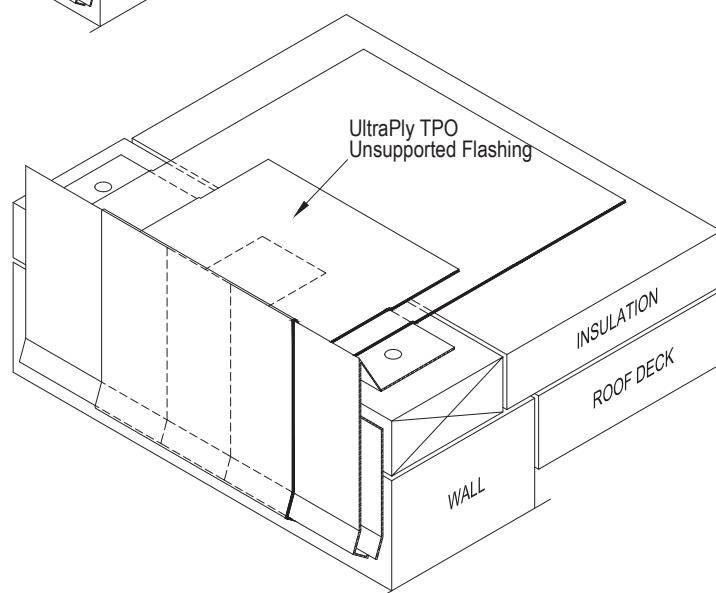
STEP #2



STEP #3



STEP #4



UltraPly™ TPO

Joint between profiles of
UltraPly TPO Coated Metal

System
All

UT - RE - 3

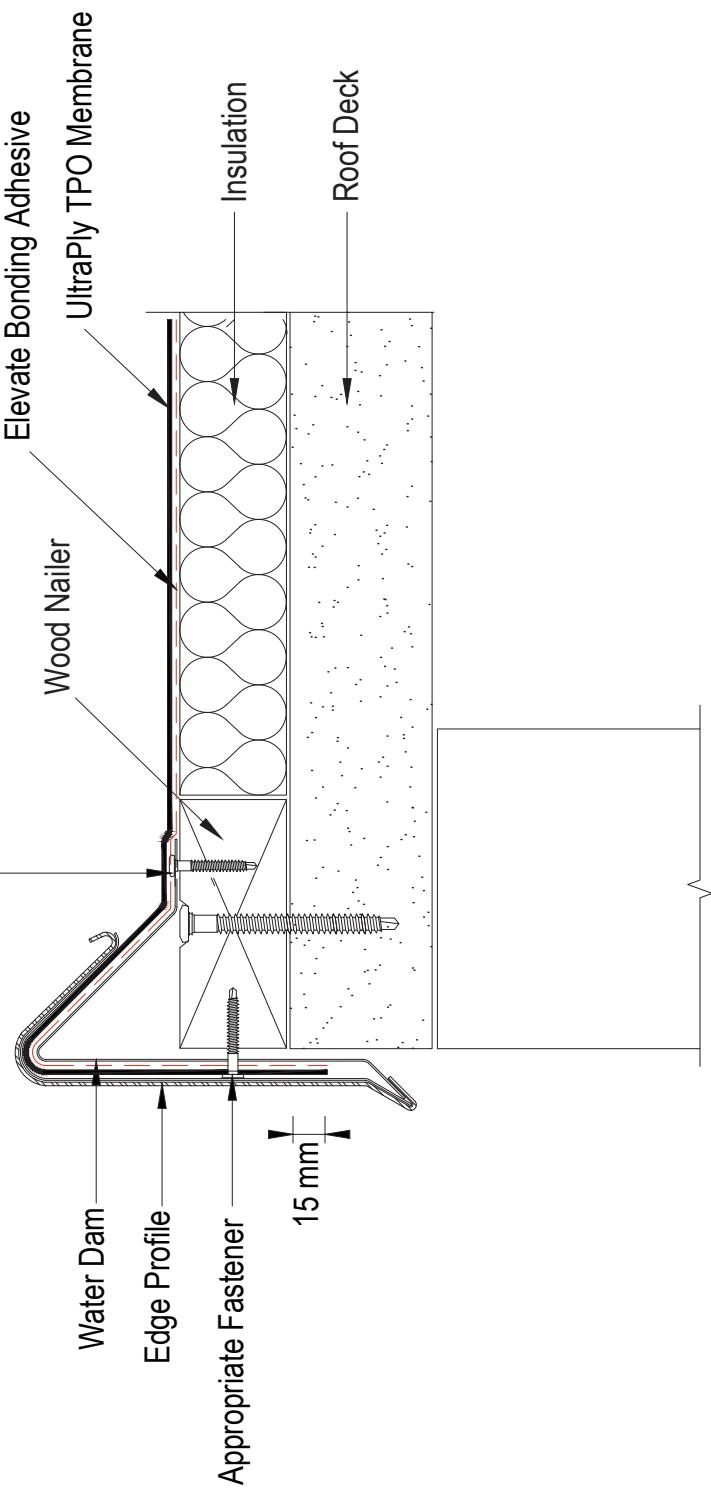
10/2022

Not to scale

EMEA & Asia

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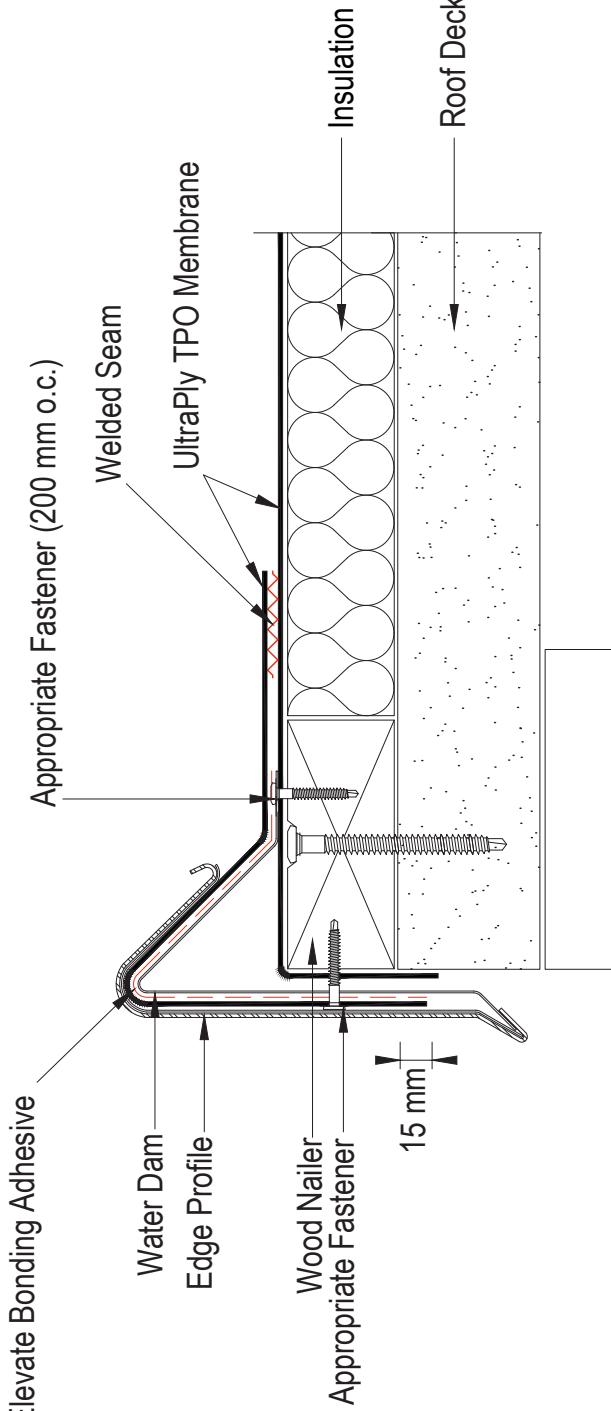
Appropriate Fastener (200 mm o.c.)



UltraPly™ TPO
Roof Edge with
Edge Profile

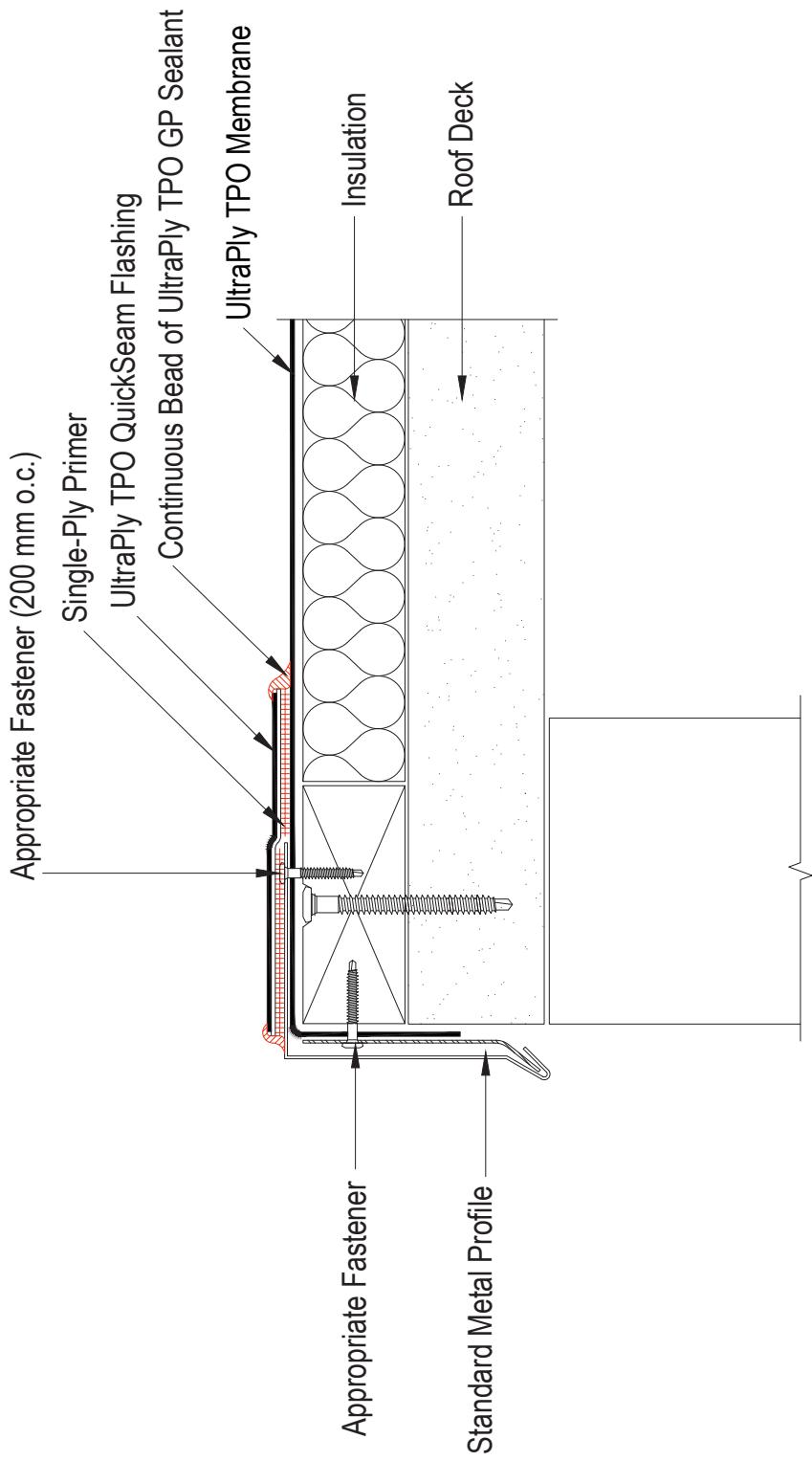
System All	UT - RE - 4
Not to scale	10/2022
EMEA & Asia	

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ELEVATE	UltraPly™ TPO	System All	UT - RE - 5
	Alternative Roof Edge with Edge Profile	Not to scale	10/2022
		EMEA & Asia	

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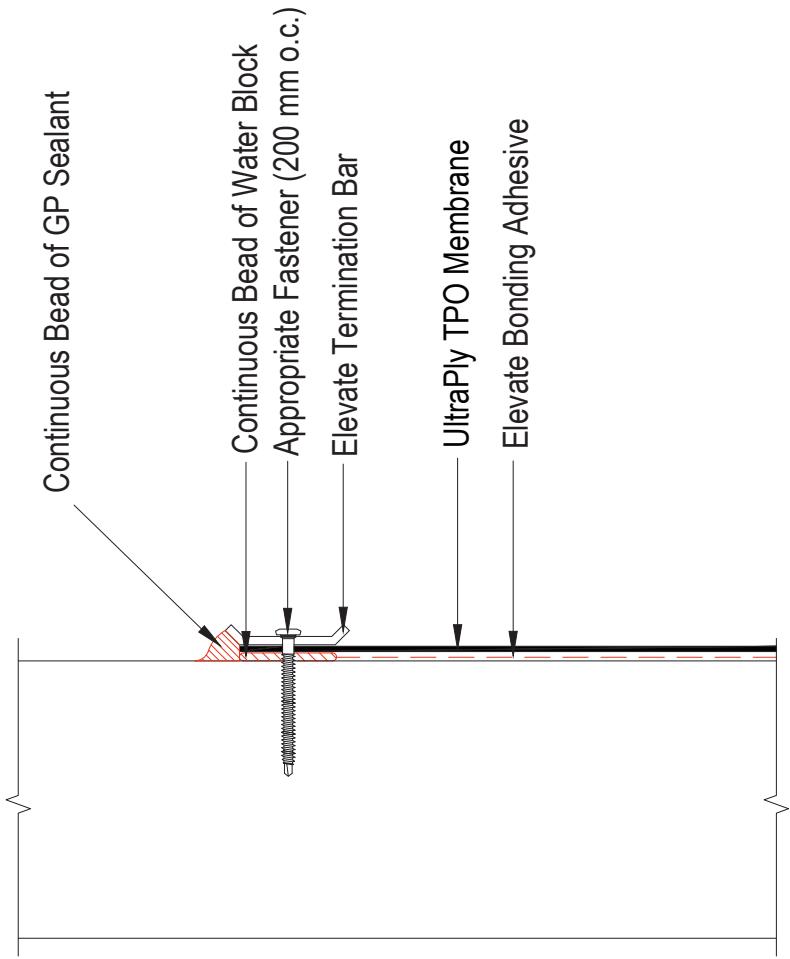


ELEVATE	UltraPly™ TPO	System All	UT - RE - 6
Roof Edge using UltraPly TPO QuickSeam Flashing	Not to scale	10/2022	EMEA & Asia

5.8 Wall terminations

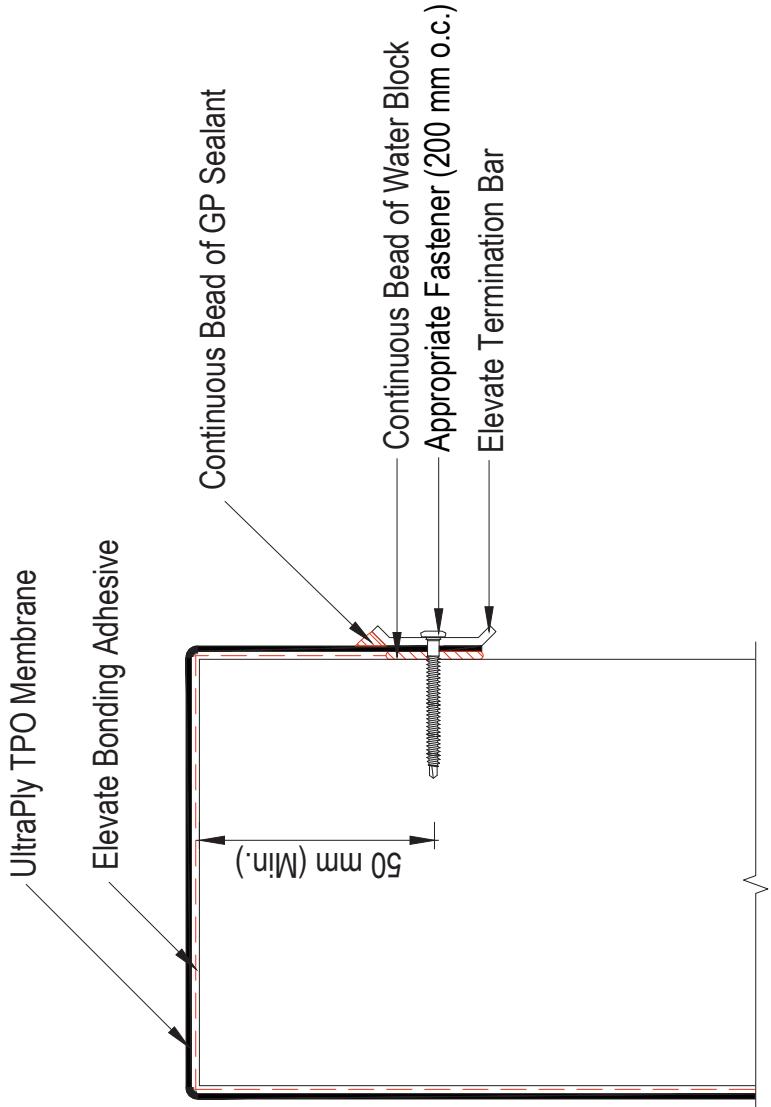
- T-T-1 Termination bar
- T-T-2 Termination bar at outside parapet wall
- T-T-3 Coping stone
- T-T-4 Metal coping
- T-T-5 Counterflashing
- T-T-6 Termination bar – elevation change
- T-T-7 Termination bar at joint in precast concrete panel
- T-T-8 Termination bar at wall expansion joint
- T-T-9 Monotrim profile
- T-T10 Intermediate attachment at wall flashing

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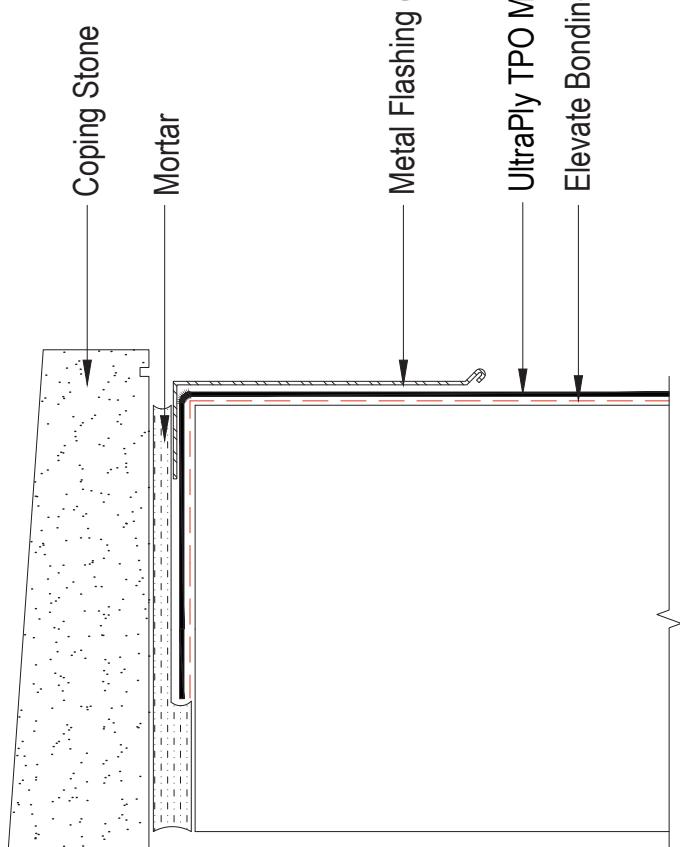
ELEVATE	UltraPlly™ TPO	System All	UT-T-1
	Termination Bar	Not to scale	10/2022 EMEA & Asia

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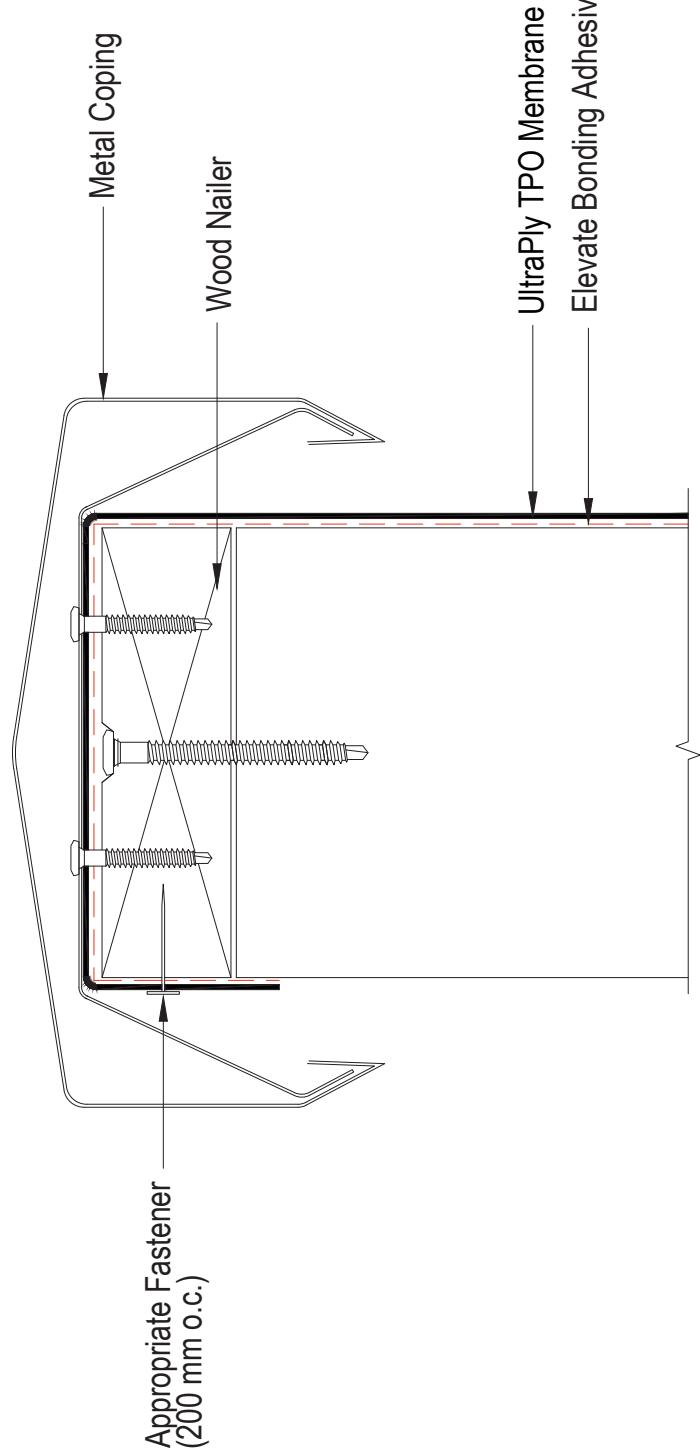
ELEVATE	UltraPly™ TPO	System All	UT-T-2
	Termination Bar at outside parapet wall	Not to scale	10/2022 EMEA & Asia

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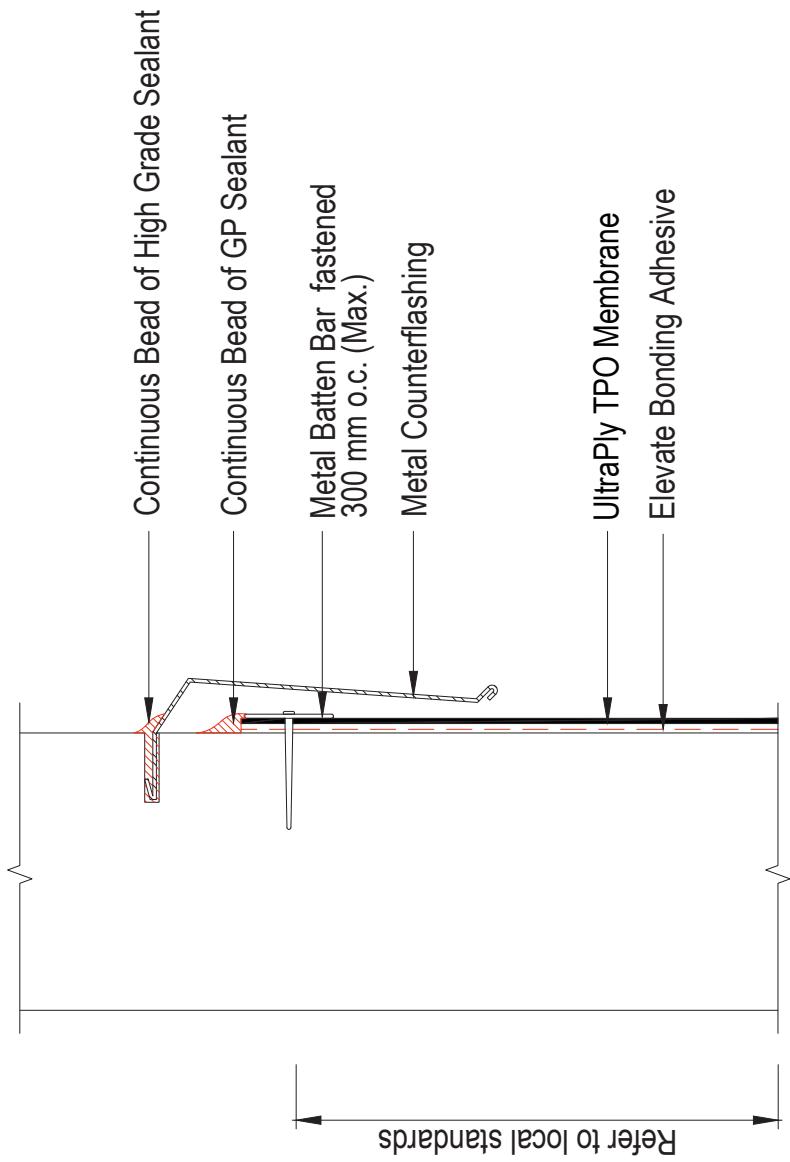
ELEVATE	UltraPly™ TPO	System All	UT-T-3
Coping Stone	Not to scale	10/2022	EMEA & Asia

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ELEVATE	UltraPly™ TPO	System All	UT - T - 4
Metal Coping	Not to scale	10/2022	EMEA & Asia

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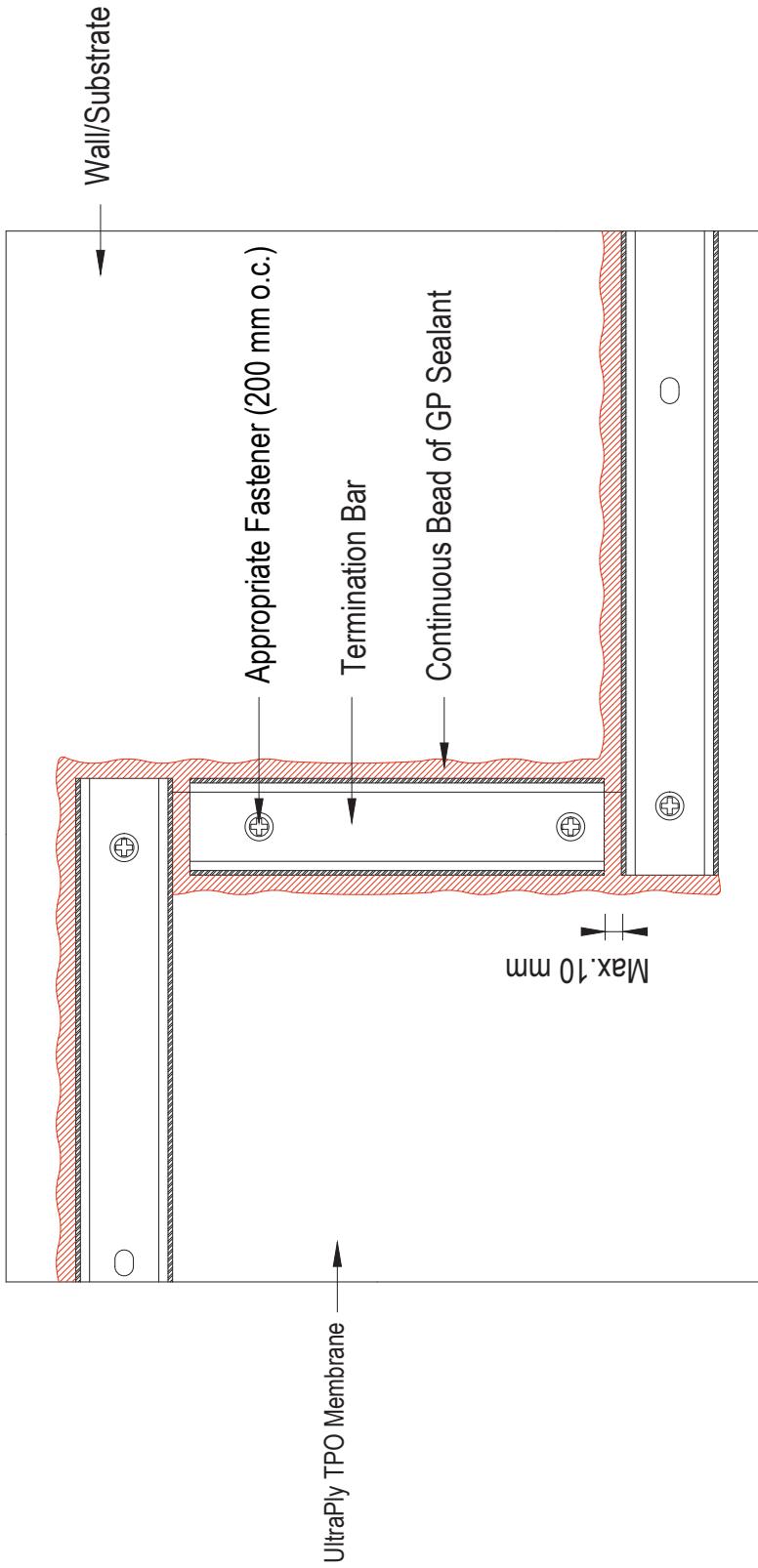
UltraPly™ TPO
Counterflashing

UT-T-5
10/2022

System
All
Not to scale

EMEA & Asia

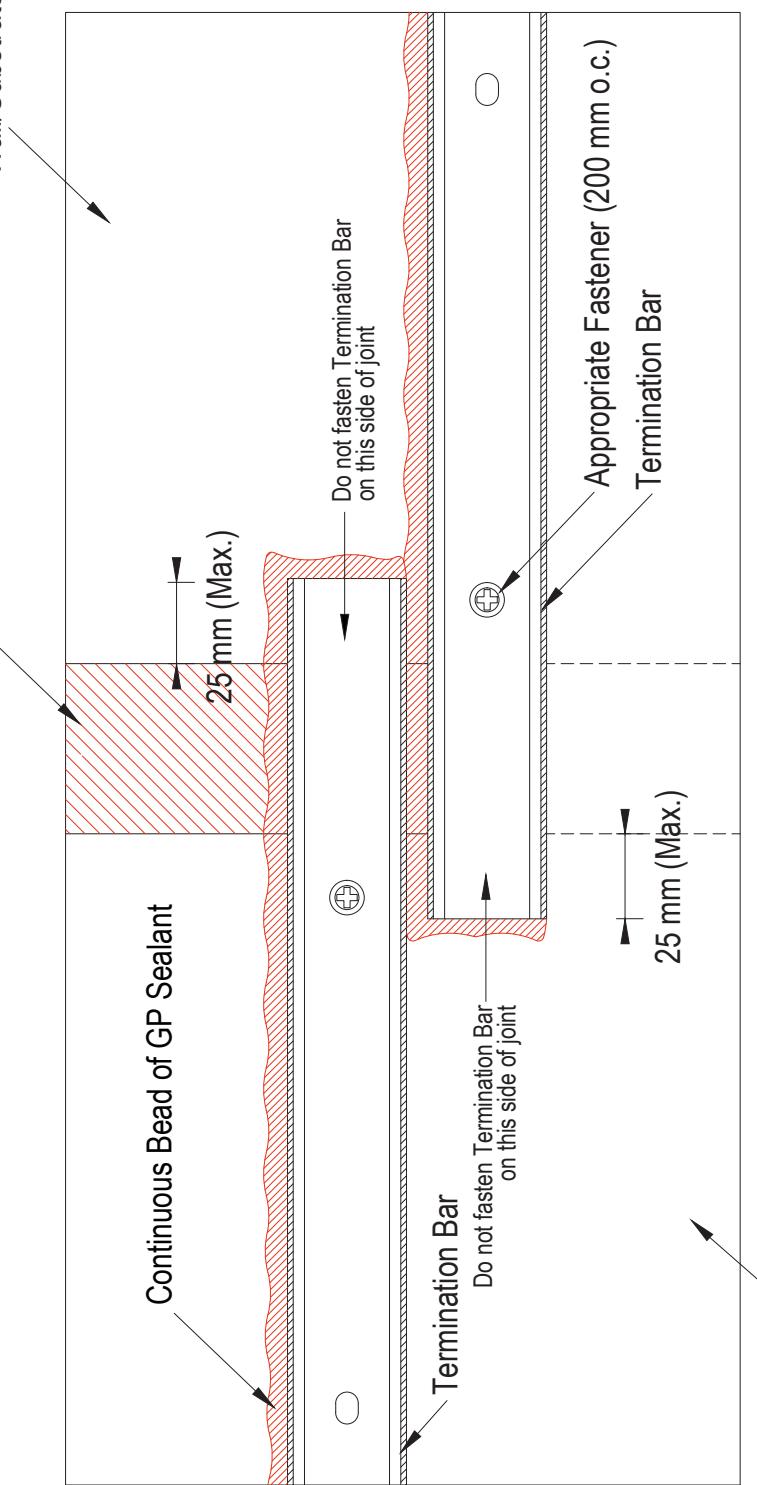
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ELEVATE	UltraPly™ TPO	System All	UT - T - 6
Termination Bar at Elevation change	Not to scale	10/2022	EMEA & Asia

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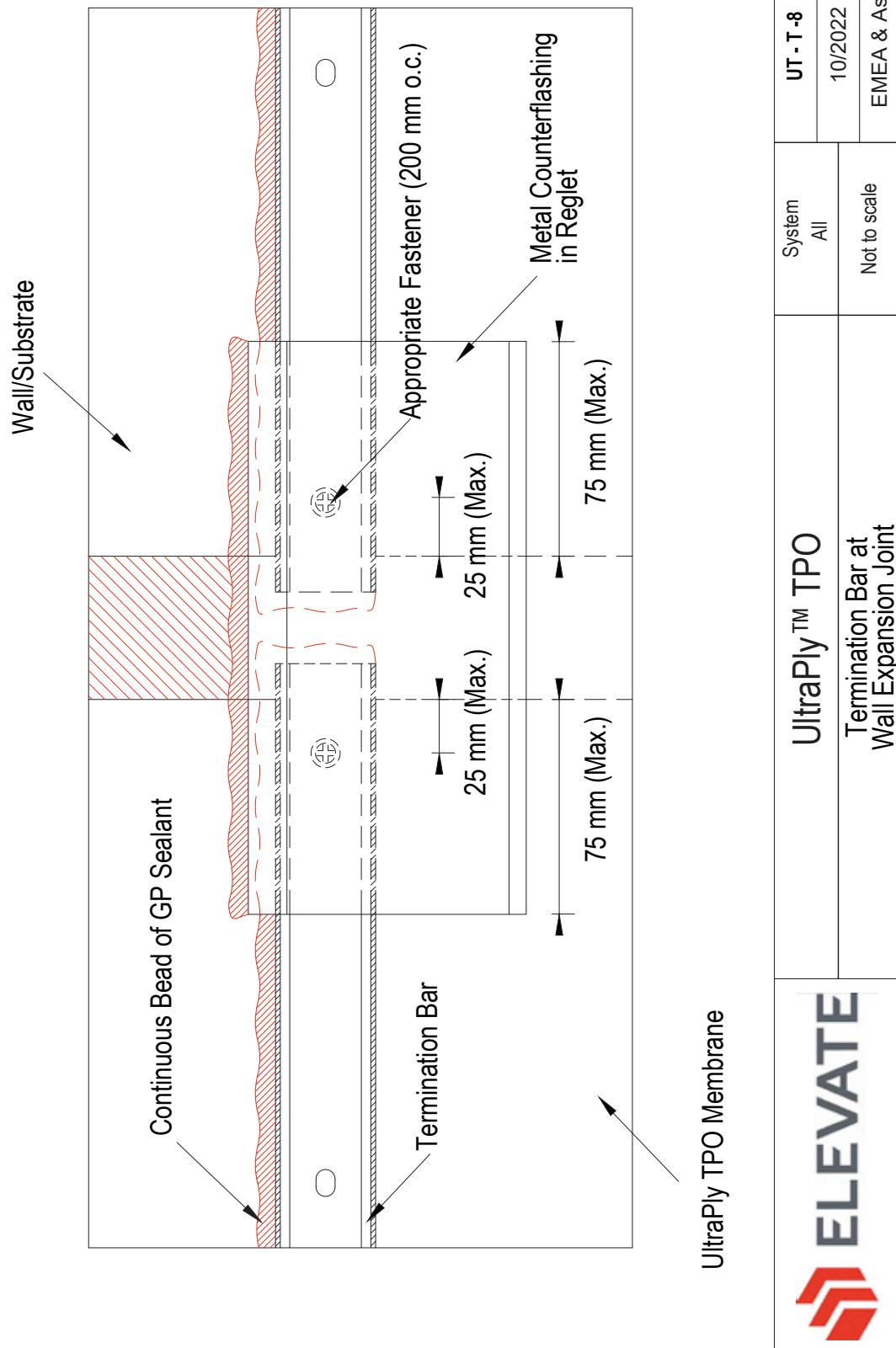
Joint in Precast Concrete



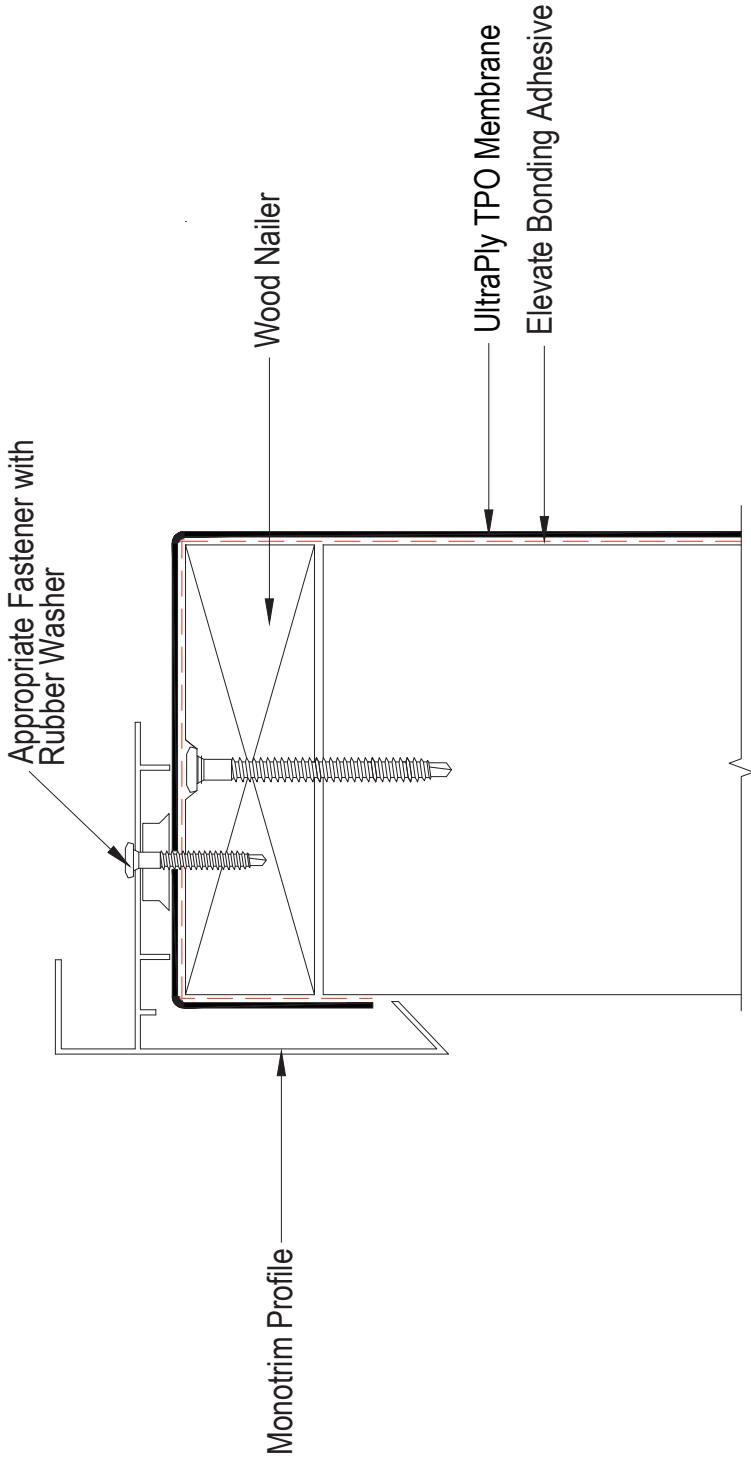
ELEVATE

UltraPly™ TPO	System All	UT - T - 7
Termination Bar at Joint in Precast Concrete Panel	Not to scale	10/2022 EMEA & Asia

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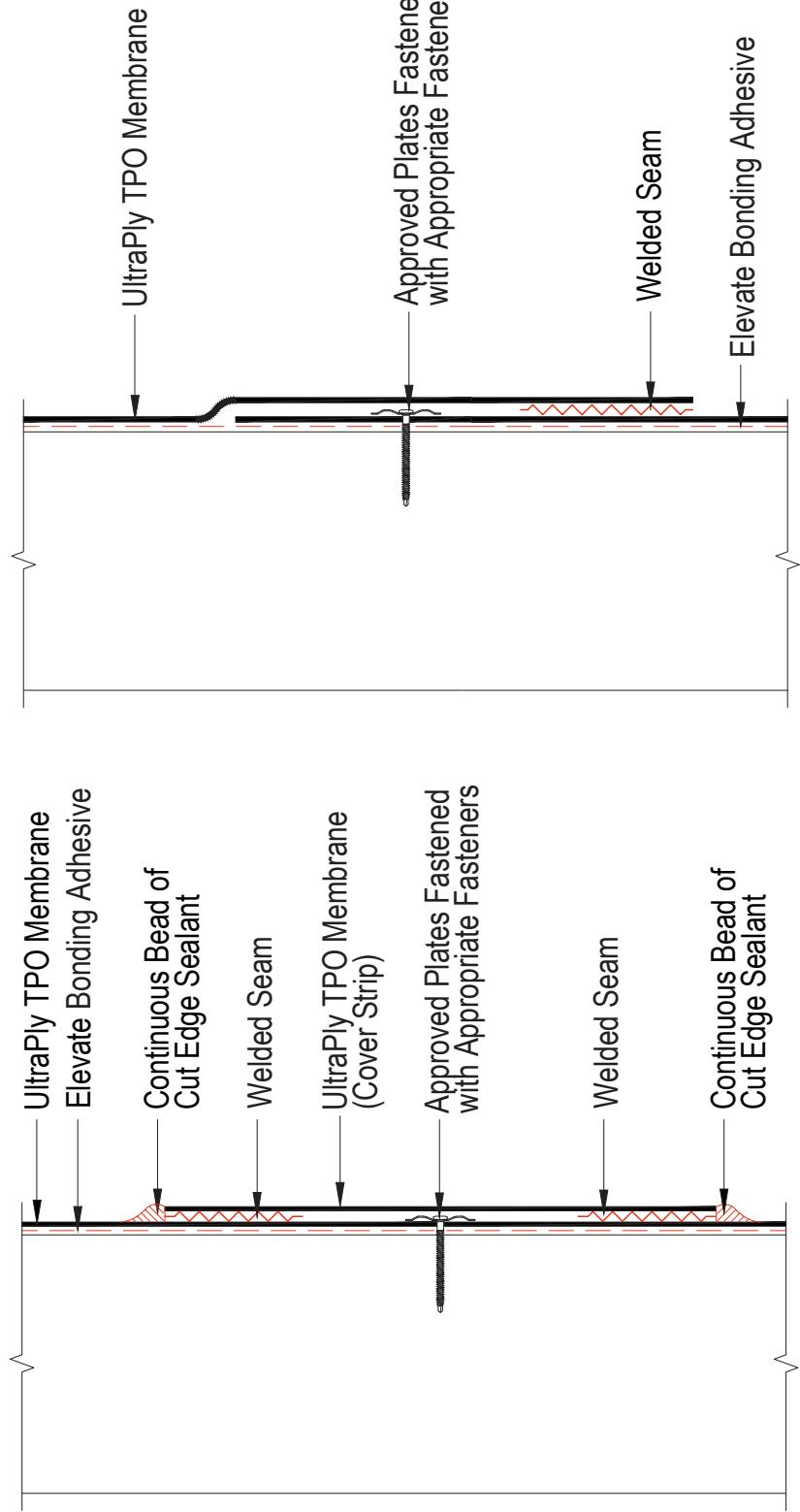


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ELEVATE	UltraPly™ TPO	System All	UT - T - 9
Monotrim Profile	Not to scale	10/2022	EMEA & Asia

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ELEVATE	UltraPly™ TPO	System All	UT - T - 10
	Intermediate Attachment at Wall Flashing	Not to scale	10/2022 EMEA & Asia