

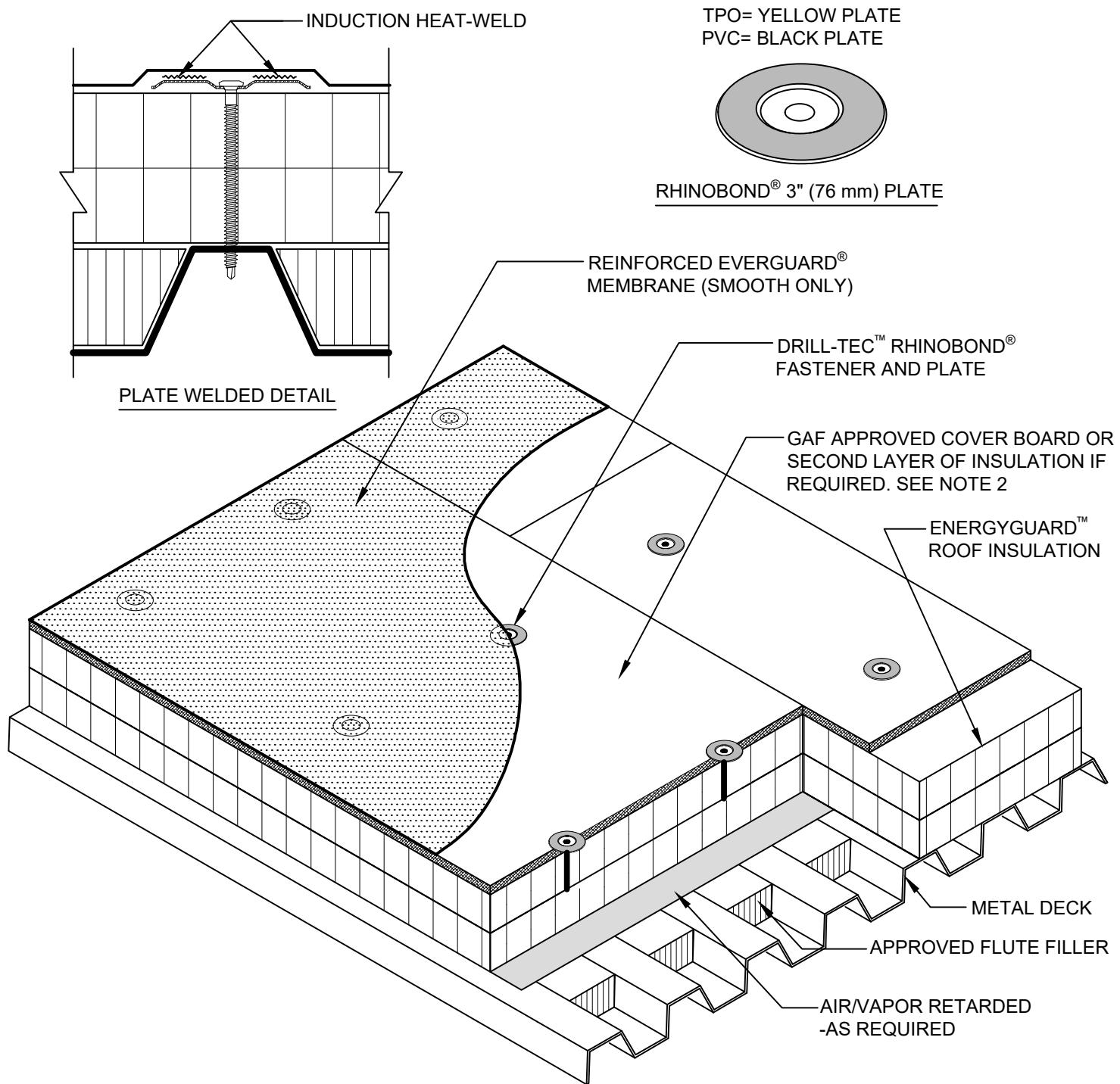
We
protect
what
matters
most™

**EverGuard® TPO/PVC
ARCHITECTURAL
ROOFING DETAILS**

Manual



SINGLE-PLY: TPO & PVC



NOTE:

1. REFER TO THE DRILL-TEC™ RHINOBOND® ATTACHMENT TABLES FOR DETAILED INSTALLATION REQUIREMENTS REGARDING DECK TYPE, PLATE & FASTENER TYPE, AND MIN. EMBEDMENT.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.
3. INSULATION BOARDS INSTALLED OVER STEEL DECKING MUST HAVE BOARDS PLACED PERPENDICULAR TO DECK FLUTES WITH EDGES OVER FLUTE SURFACE FOR BEARING SUPPORT.

GAF

DRILL-TEC™ RHINOBOND® ASSEMBLY

DRAWING #
100E

THIS DETAIL APPLIES TO:
RHINOBOND® SYSTEMS

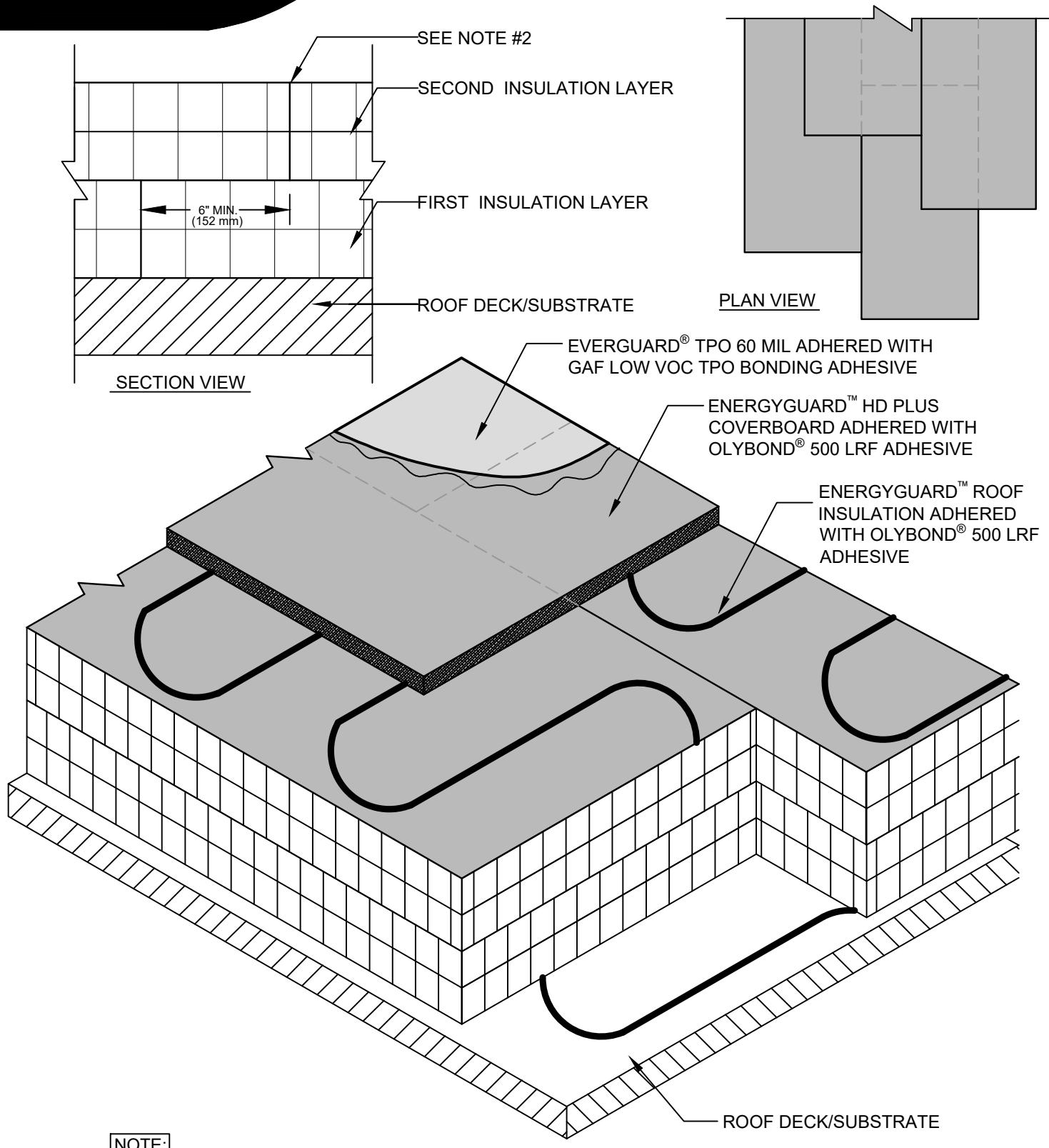
ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

~~~~~ HEAT-WELDED

## SINGLE-PLY: TPO & PVC



**NOTE:**

1. REFER TO THE EVERGUARD® DESIGN & APPLICATION GUIDELINES FOR DETAILED INSTALLATION REQUIREMENTS.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.

**GAF**

### ADHERED SYSTEM LAYOUT DETAIL

DRAWING #  
**100I**

THIS DETAIL APPLIES TO:

ADHERED SYSTEMS

ISSUE / REVISION DATE

8/17/20

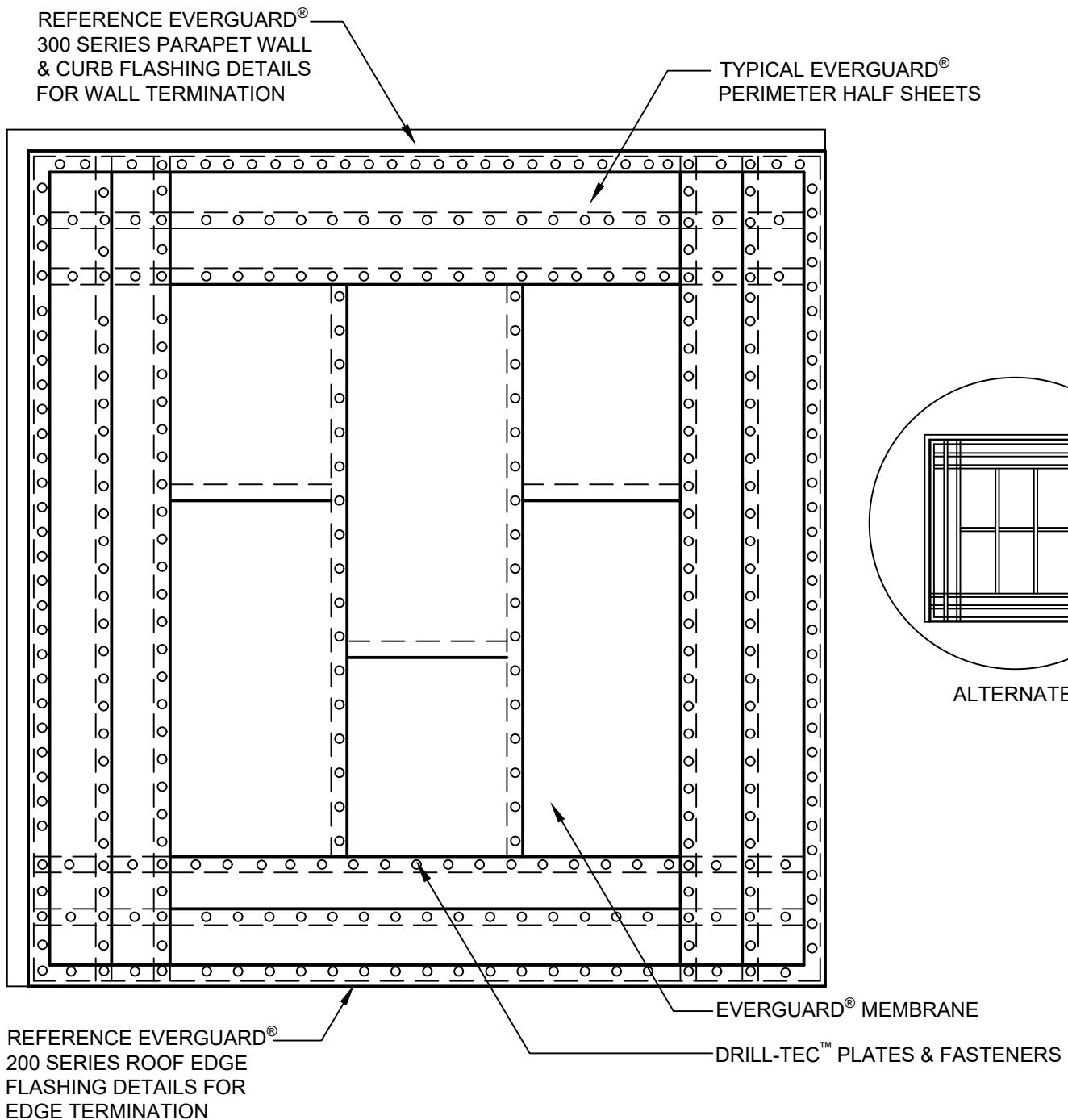
SCALE

N.T.S.

### LEGEND



LOW VOC TPO BONDING ADHESIVE



NOTE:

1. SEE EVERGUARD® MECHANICALLY ATTACHED SPEC MANUAL TO DETERMINE FASTENER SPACING FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS, AND FOR REQUIRED NUMBER OF PERIMETER HALF SHEETS.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED.

**GAF**

ROOF MEMBRANE LAYOUT DETAIL

DRAWING #  
**101A**

THIS DETAIL APPLIES TO:

MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE

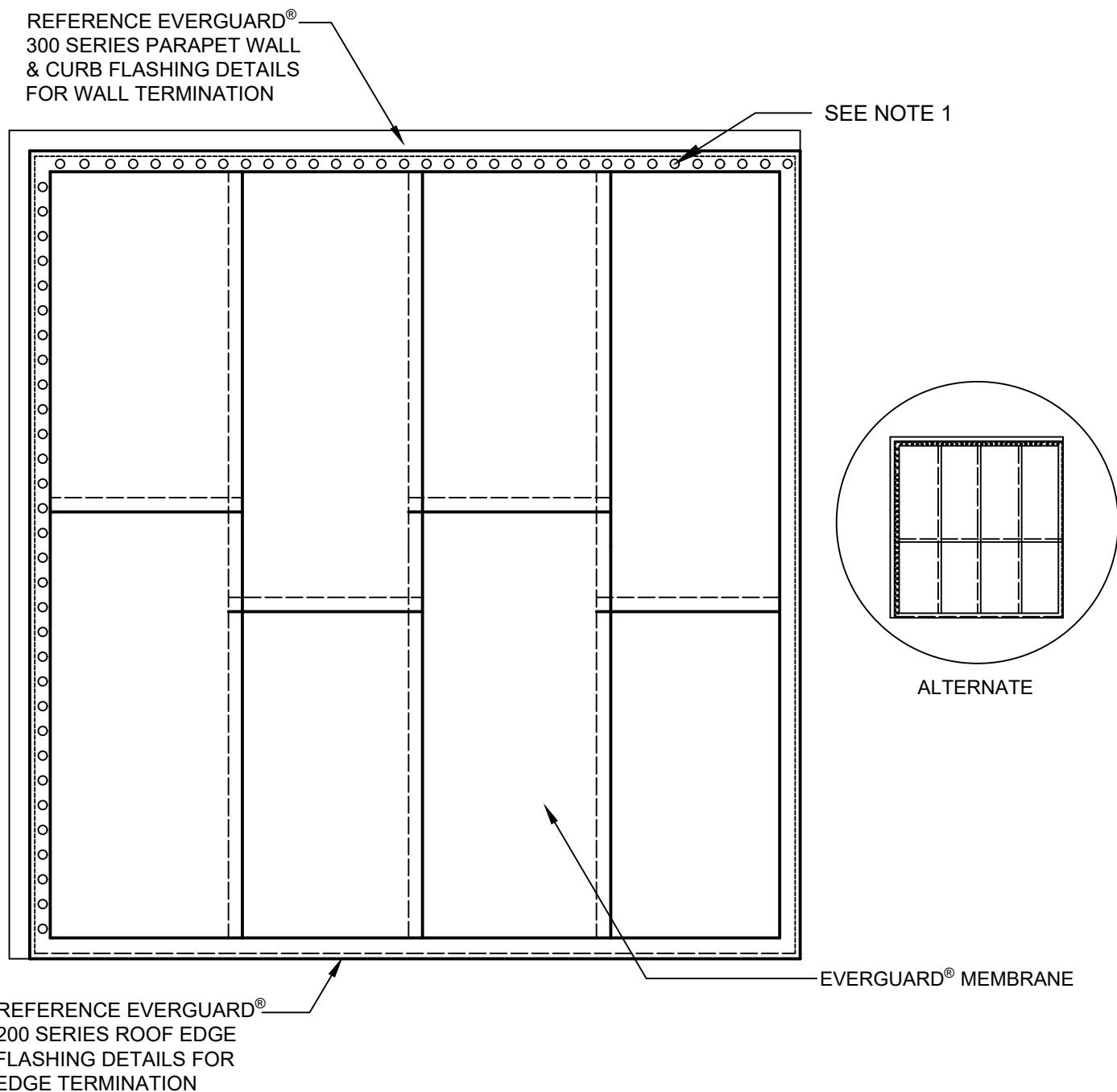
**8/17/20**

SCALE

N.T.S.

LEGEND

|  |                               |
|--|-------------------------------|
|  | HEAT-WELDED SEAMS             |
|  | DRILL-TEC™ PLATES & FASTENERS |



**NOTE:**

1. SEE EVERGUARD® MECHANICALLY ATTACHED SPEC MANUAL TO DETERMINE FASTENER SPACING FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS, AND FOR REQUIRED NUMBER OF PERIMETER HALF SHEETS.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.

**GAF**

ROOF MEMBRANE LAYOUT DETAIL

DRAWING #  
**101B**

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

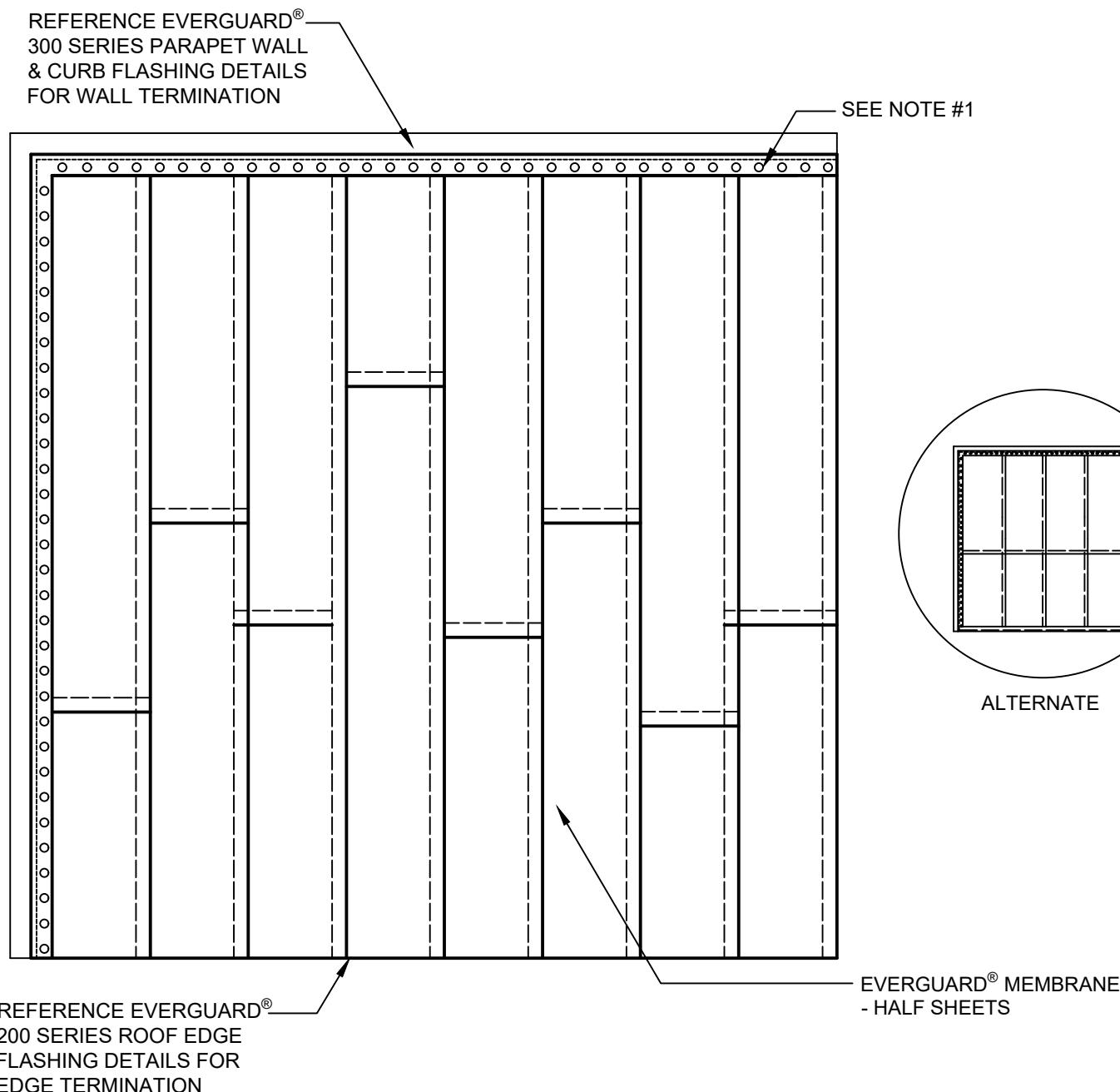
8/24/20

SCALE

N.T.S.

**LEGEND**

|  |                   |
|--|-------------------|
|  | HEAT-WELDED SEAMS |
|  | FASTENERS         |



NOTE:

1. SEE APPROPRIATE EVERGUARD® SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ENHANCEMENTS FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.



ROOF MEMBRANE LAYOUT DETAIL  
- HALF SHEETS

DRAWING #  
**101C**

GAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • [technicalservices@gaf.com](mailto:technicalservices@gaf.com) • 800-766-3411

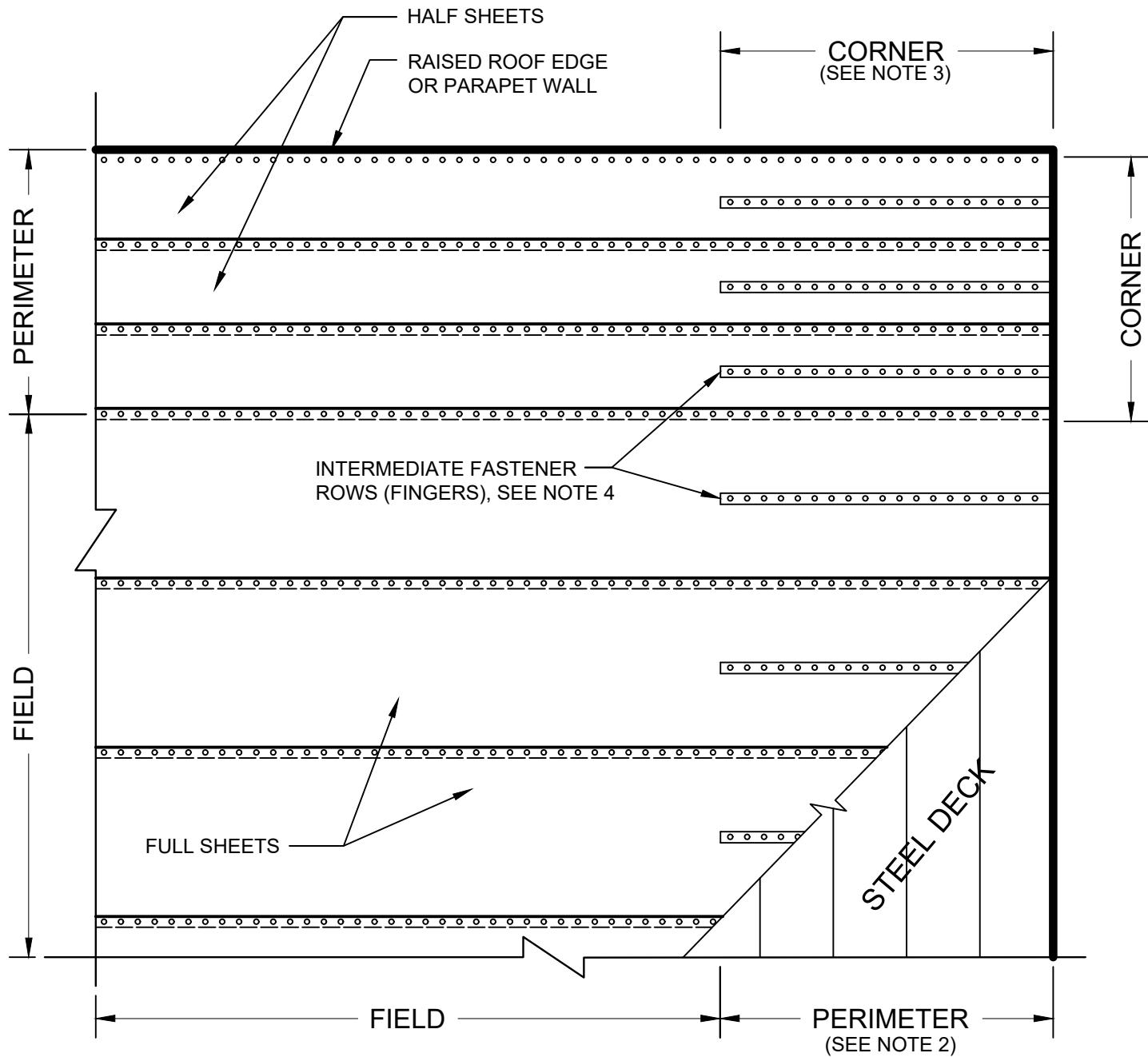
LEGEND

|  |                   |
|--|-------------------|
|  | HEAT-WELDED SEAMS |
|  | FASTENERS         |

THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
BALLASTED SYSTEMS  
RHINOBOUND® SYSTEMS  
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE  
**8/24/20**

SCALE  
N.T.S.



## NOTE:

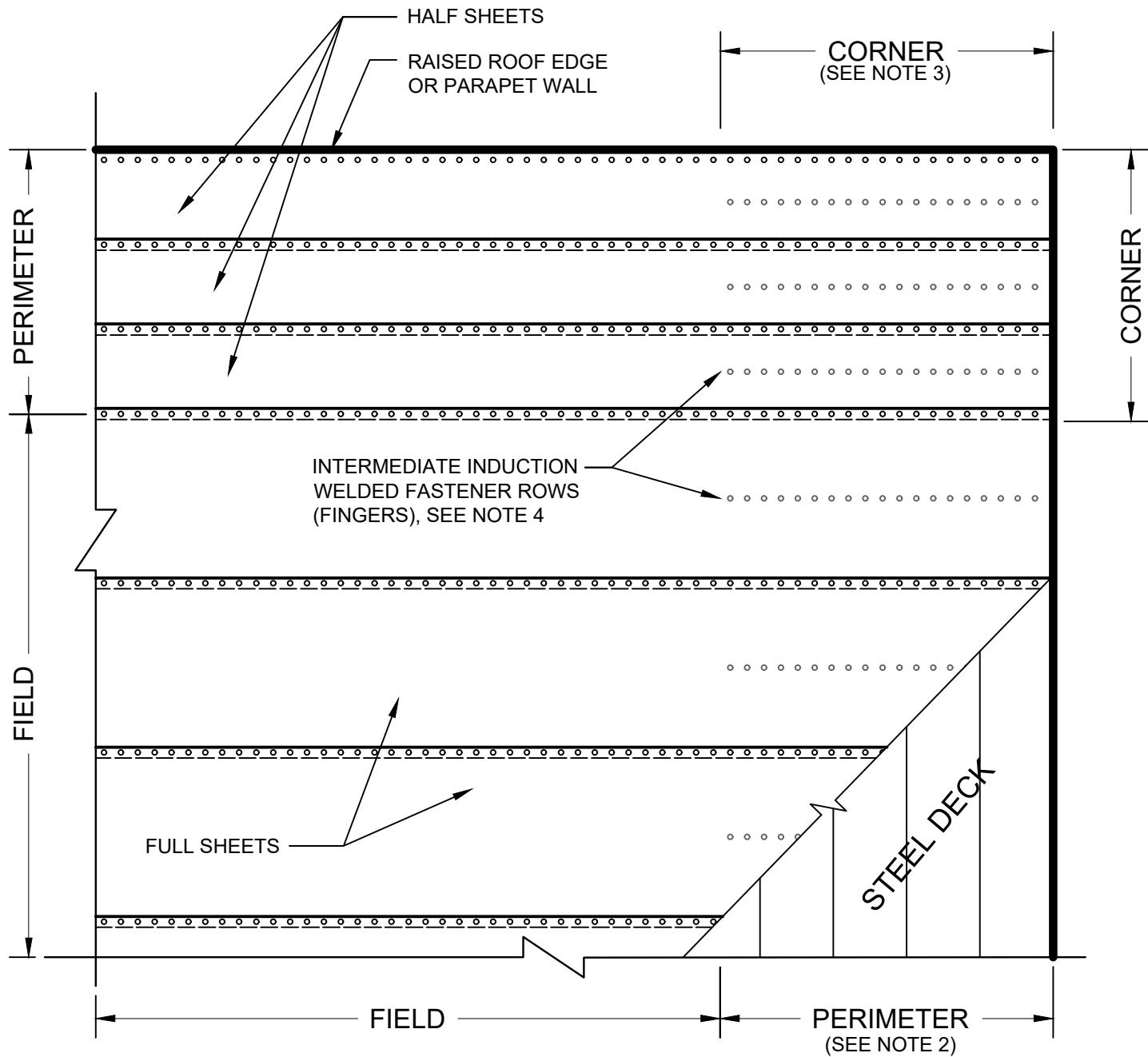
1. SEE EVERGUARD® SYSTEM GUIDELINES IN SPEC MANUAL TO DETERMINE PERIMETER, AND CORNER ZONES.
2. IN PERIMETER ZONES, DISTANCE BETWEEN ROWS IS  $\leq$  60% OF FIELD SPACING OR ONE ROW OF INTERMEDIATE FASTENERS (FINGERS).
3. IN CORNER ZONES, DISTANCE BETWEEN ROWS IS  $\leq$  40% OF FIELD SPACING OR TWO ROWS OF INTERMEDIATE FASTENERS (FINGERS).
4. INTERMEDIATE ROWS OF FASTENERS (FINGERS) MAY BE INSTALLED THROUGH THE SHEET WITH A COVER STRIP OR AN ADDITIONAL MEMBRANE PLY OVER FASTENERS, IN ACCORDANCE WITH GAF'S REQUIREMENTS.

GAF

MECHANICALLY ATTACHED ASSEMBLY WITH  
INTERMEDIATE FASTENER ROWSDRAWING #  
101DTHIS DETAIL APPLIES TO:  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/17/20SCALE  
N.T.S.

## LEGEND

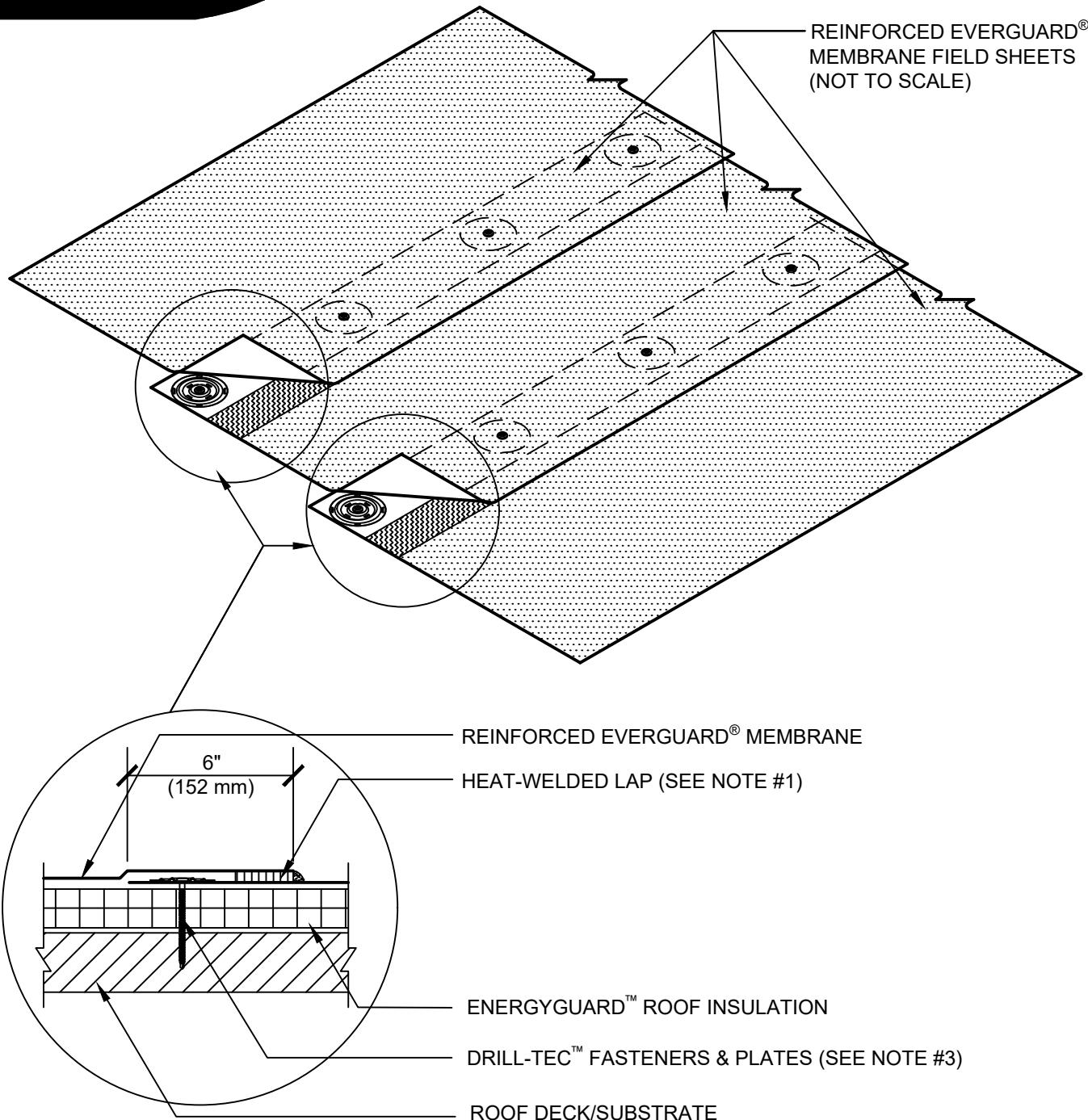
|       |                   |
|-------|-------------------|
| — — — | HEAT-WELDED SEAMS |
| ○ ○ ○ | FASTENERS         |

**NOTE:**

1. SEE EVERGUARD® SYSTEM GUIDELINES IN SPEC MANUAL TO DETERMINE PERIMETER, AND CORNER ZONES.
2. IN PERIMETER ZONES, DISTANCE BETWEEN ROWS IS  $\leq$  60% OF FIELD SPACING OR ONE ROW OF INTERMEDIATE FASTENERS (FINGERS).
3. IN CORNER ZONES, DISTANCE BETWEEN ROWS IS  $\leq$  40% OF FIELD SPACING OR TWO ROWS OF INTERMEDIATE FASTENERS (FINGERS).
4. INTERMEDIATE ROWS OF FASTENERS (FINGERS) MAY BE INSTALLED THROUGH THE SHEET, IN ACCORDANCE WITH GAF'S REQUIREMENTS.
5. THIS DETAIL IS BASED ON THE ROOF ZONE LAYOUT PRESCRIBED IN THE 2005 AND 2010 EDITIONS OF ASCE 7.

**GAF****MECHANICALLY ATTACHED ASSEMBLY WITH  
INTERMEDIATE INDUCTION WELDED FASTENER ROWS**DRAWING #  
**101E**THIS DETAIL APPLIES TO:  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
7/8/21SCALE  
N.T.S.**LEGEND**

— — — HEAT-WELDED SEAMS  
○ ○ ○ FASTENERS



## NOTE:

1. FOR HEAT-WELDING LAPS USE 1.5" (38.1 mm) WELD WITH MACHINE AUTOMATIC WELDER AND 2" (50.8 mm) WELD WITH HAND WELDER.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICAL ATTACHED SYSTEMS ONLY.
3. SEE EVERGUARD® MECHANICALLY ATTACHED SPEC MANUAL TO DETERMINE FASTENER SPACING FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS.

GAF

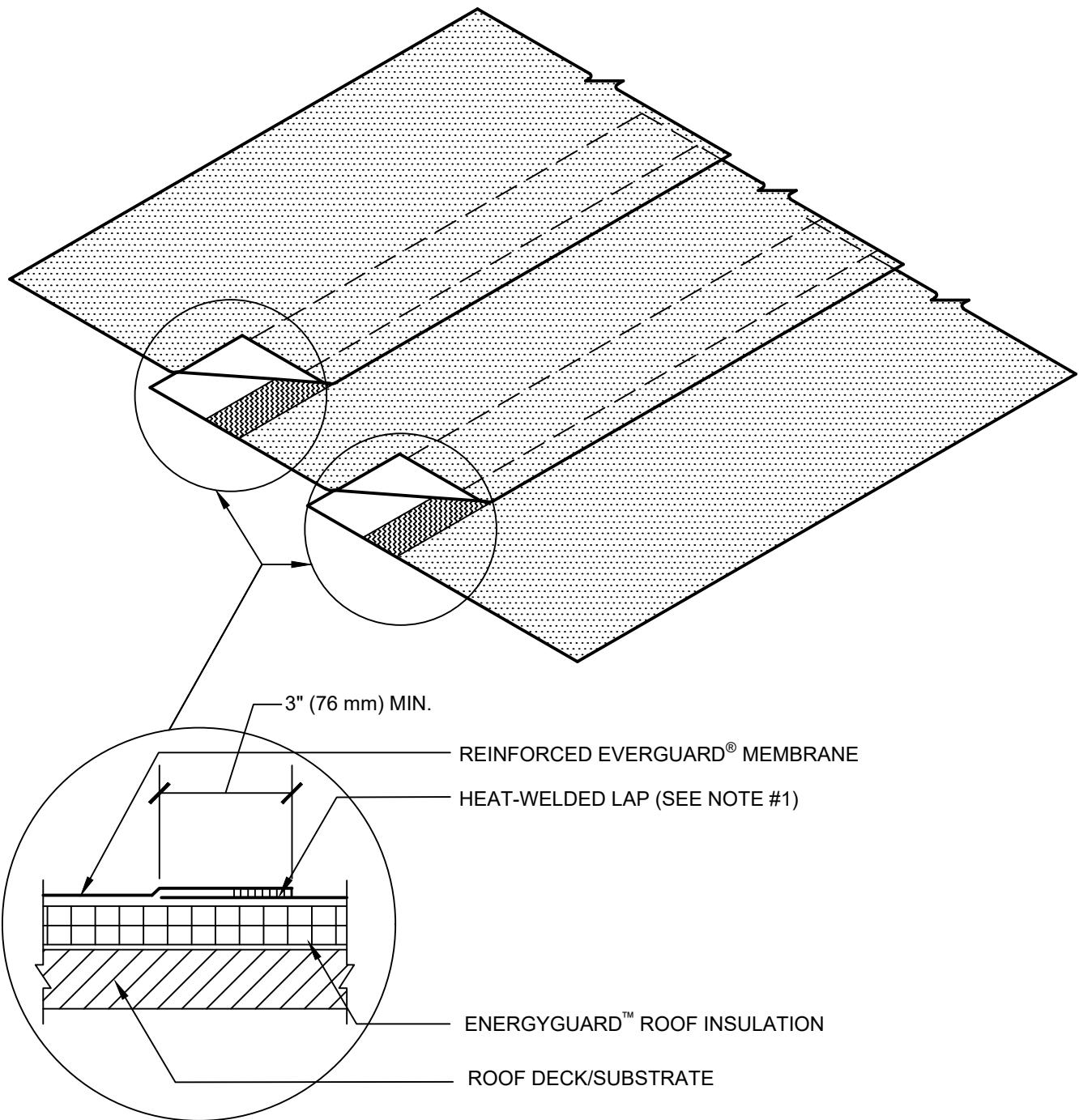
SIDE LAP

DRAWING #  
102A

LEGEND

HEAT-WELDED

| THIS DETAIL APPLIES TO:       | ISSUE / REVISION DATE | SCALE  |
|-------------------------------|-----------------------|--------|
| MECHANICALLY ATTACHED SYSTEMS | 12/14/20              | N.T.S. |



## NOTE:

1. FOR HEAT-WELDING LAPS USE 1.5" (38.1 mm) WELD WITH MACHINE AUTOMATIC WELDER AND 2" (50.8 mm) WELD WITH HAND WELDER.

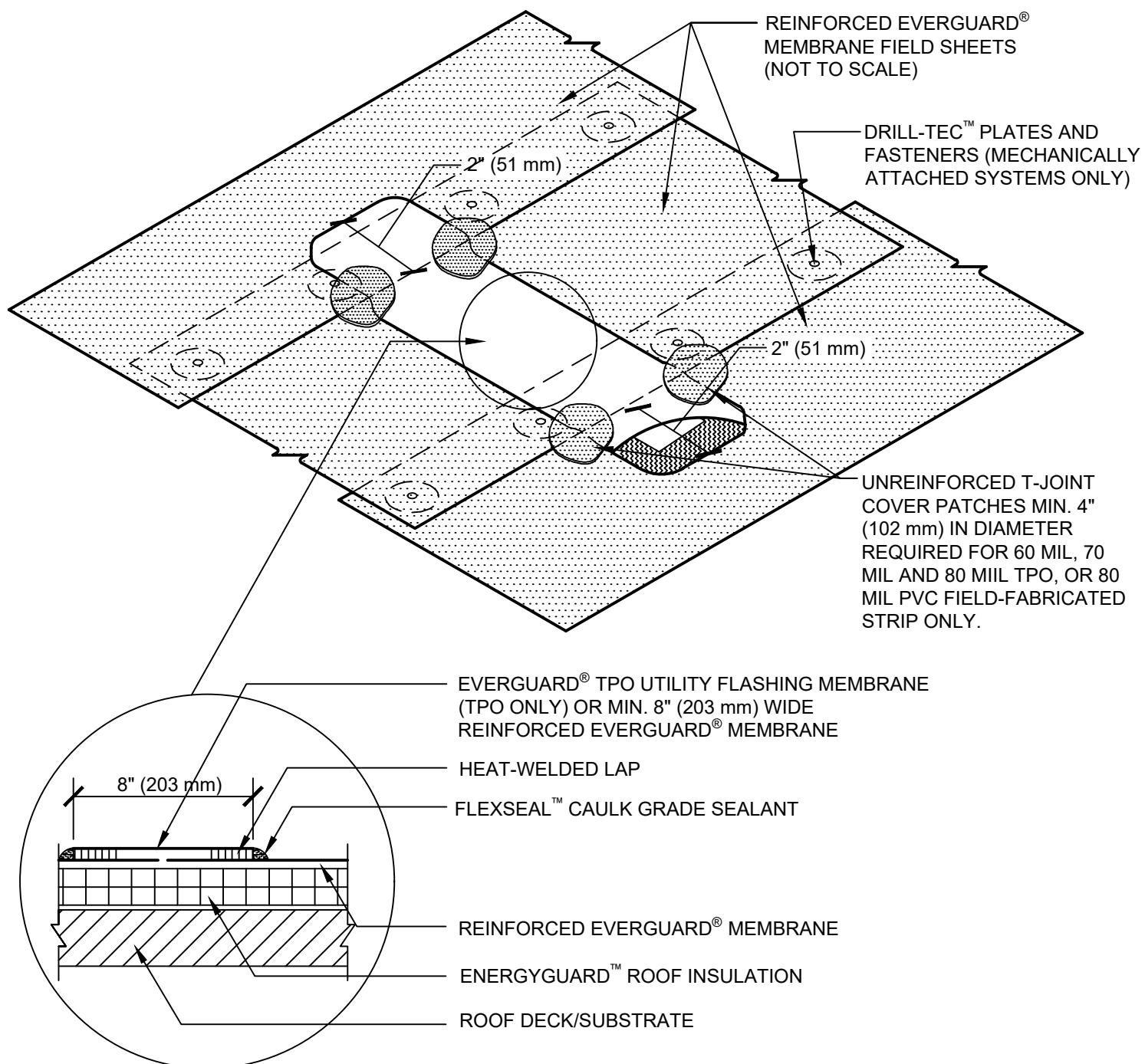
GAF

## SIDE LAP

DRAWING #  
102BTHIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
BALLASTED SYSTEMS  
RHINO BOND™ SYSTEMS  
SELF-ADHERED SYSTEMSISSUE / REVISION DATE  
6/07/21SCALE  
N.T.S.

## LEGEND

HEAT-WELDED



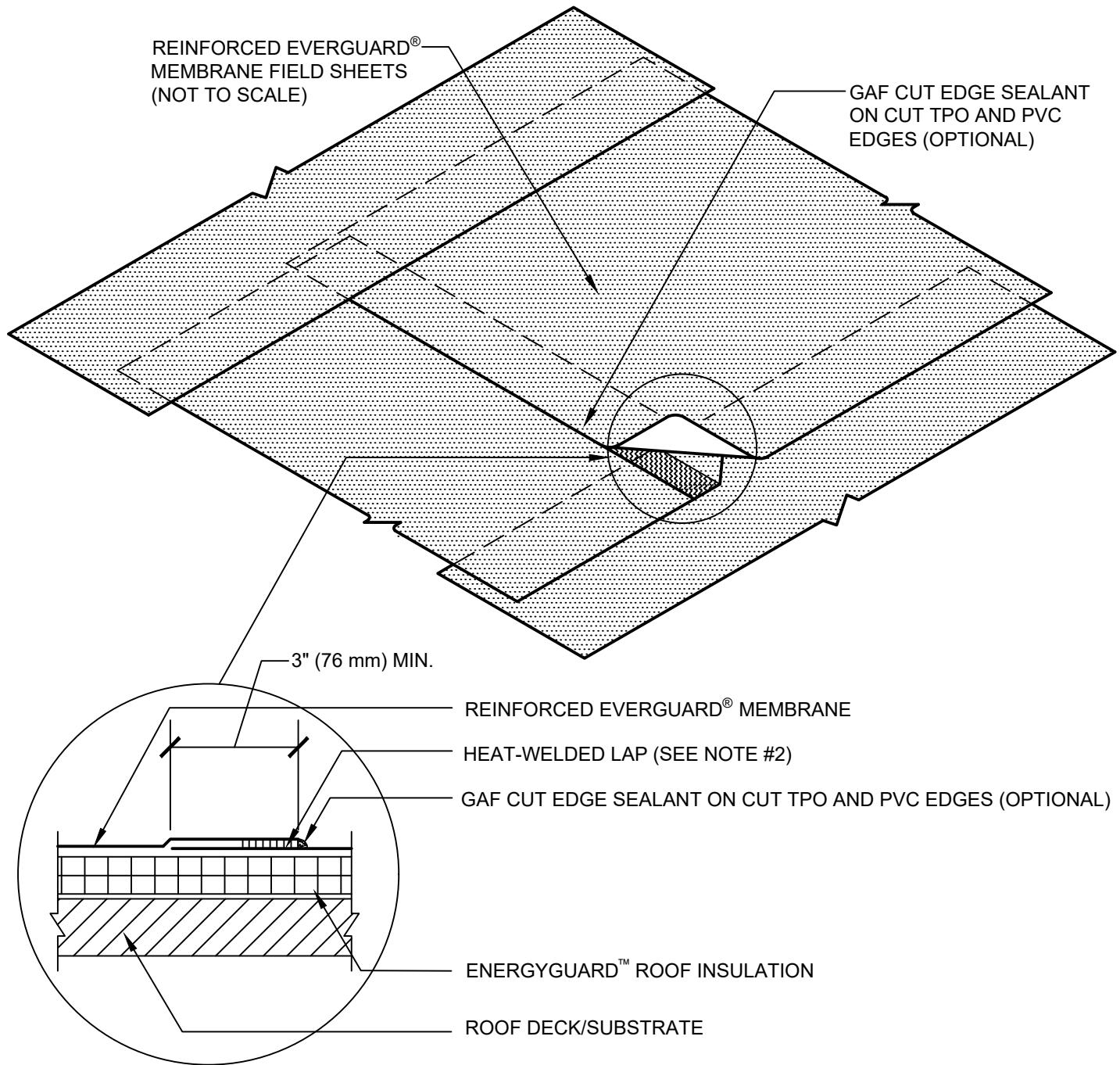
GAF

## END LAP WITH COVER STRIP

DRAWING #  
103ATHIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

HEAT-WELDED



## NOTES:

1. T-JOINT PATCH REQUIRED FOR 60, 70 & 80 MIL TPO AND 80 MIL PVC, REFER TO EVERGUARD® DETAIL 105.
2. FOR HEAT-WELDING LAPS USE 1.5" (38.1 mm) WELD WITH AUTOMATIC MACHINE WELDER AND 2" (50.8 mm) WELD WITH HAND WELDER.

END LAP

DETAIL

104A

ROOF AREA

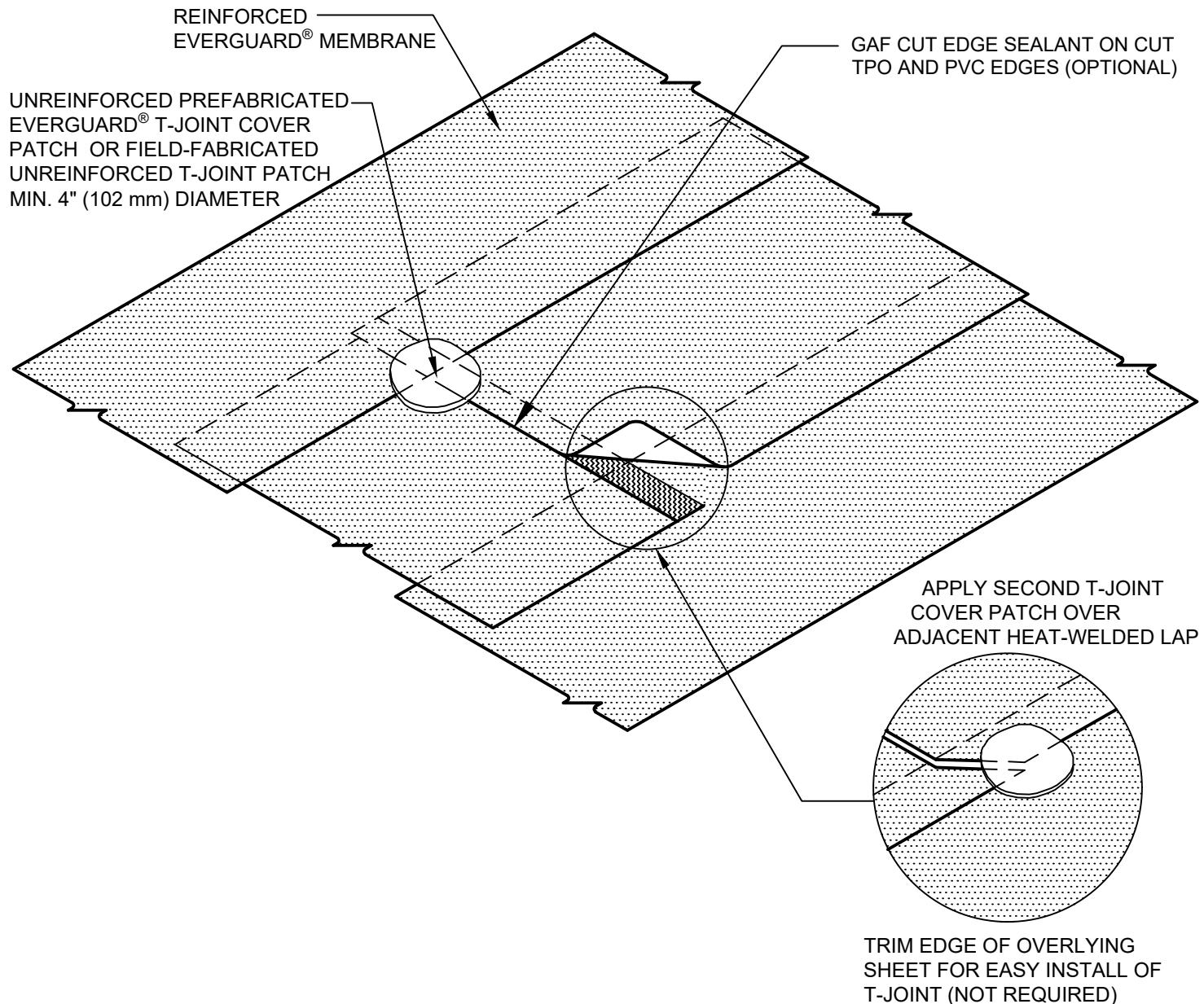
ISSUE DATE

SCALE

FIELD OF ROOF

2/23/2023

N.T.S.



## NOTES:

1. T-JOINT IS TO BE USED FOR 60-80 MIL TPO AND 80 MIL PVC ONLY.

## T-JOINT COVER PATCH

DETAIL

105A

ROOF AREA

ISSUE DATE

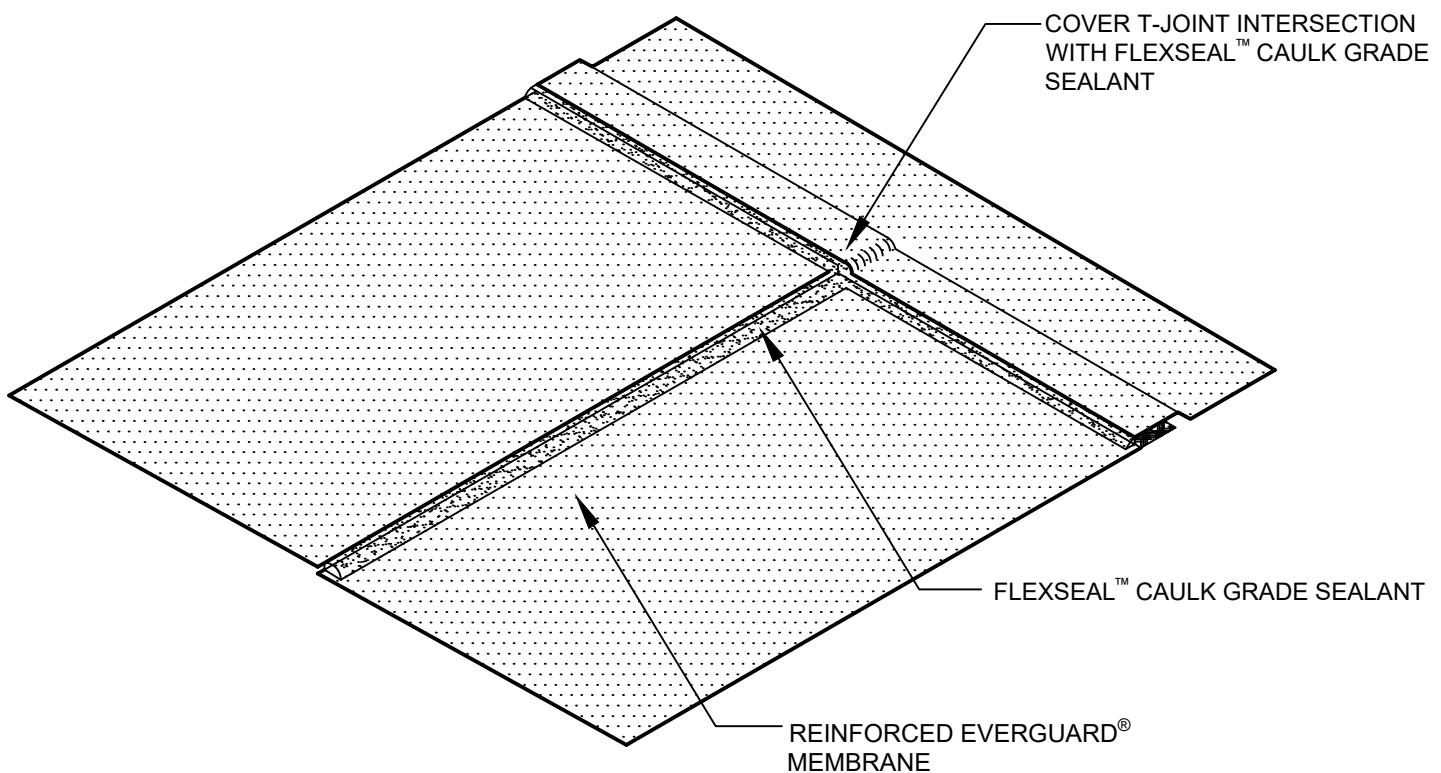
SCALE

FIELD OF ROOF

2/23/2023

N.T.S.

SINGLE-PLY: TPO  
-Freedom™ TPO  
-45 mil TPO



NOTE:

1. FOR SELF-ADHERED HEAT-WELDED SYSTEMS, UP TO 20YR MAXIMUM GUARANTEE ONLY.

**GAF**

**T-JOINT COVER PATCH**

DRAWING #  
**105B**

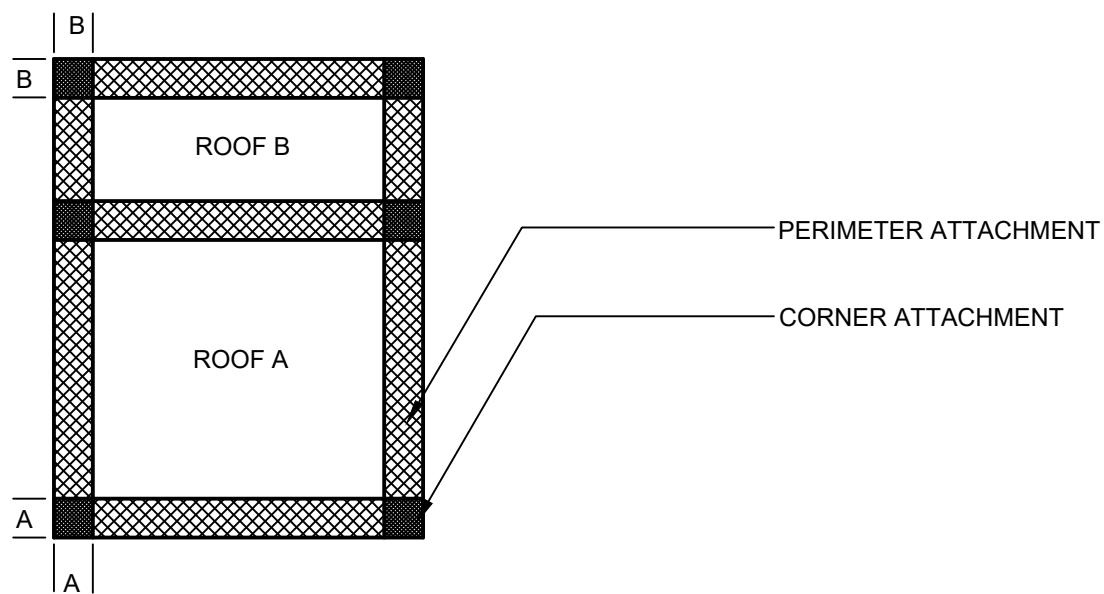
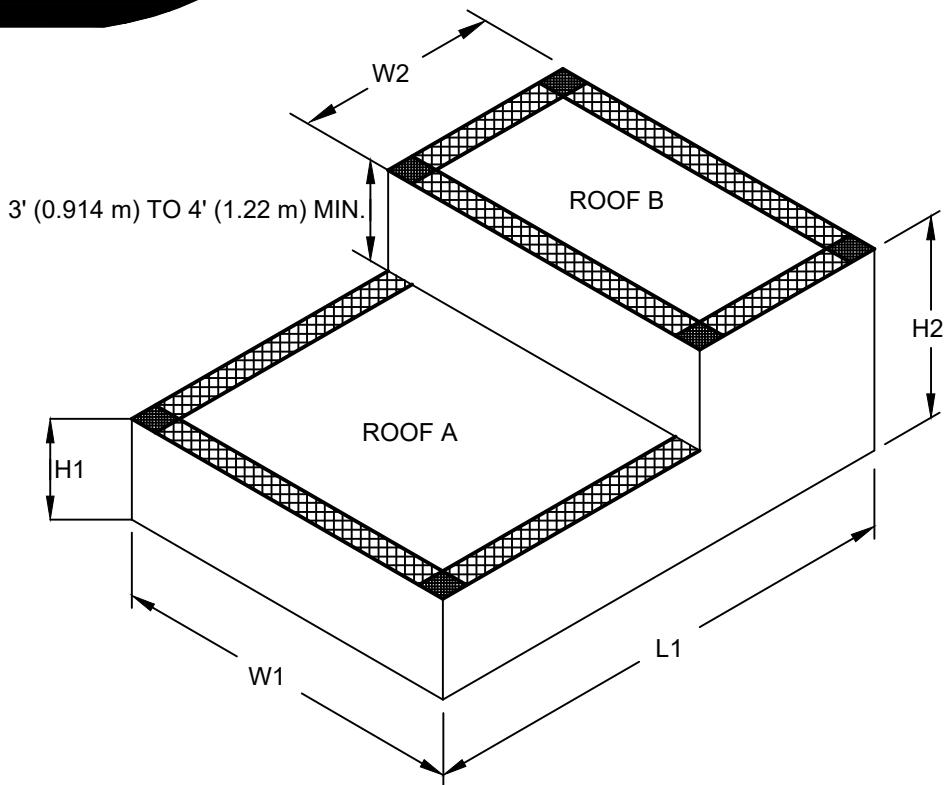
THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
BALLASTED SYSTEMS  
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE  
**8/17/20**

SCALE  
N.T.S.

**LEGEND**

## SINGLE-PLY: TPO & PVC



### NOTE:

1. WIDTH OF PERIMETER TREATMENT (A OR B) SHALL BE 10% OF THE BUILDING'S NARROWEST WIDTH (W) OR 40% OF THE BUILDING EAVE HEIGHT (H), WHICHEVER IS LESS, WITH 4' (1.22 m) BEING THE MIN. FOR STANDARD GAF GUARANTEE REQUIREMENTS. SEE HALF-SHEET REQUIREMENTS IN MECHANICALLY ATTACHED SECTION.
2. FOR ADHERED, SELF-ADHERED, AND RHINOBOND® SYSTEMS, SEE INSULATION TABLE FOR ENHANCEMENTS.



### ROOF AREA ZONE LAYOUT

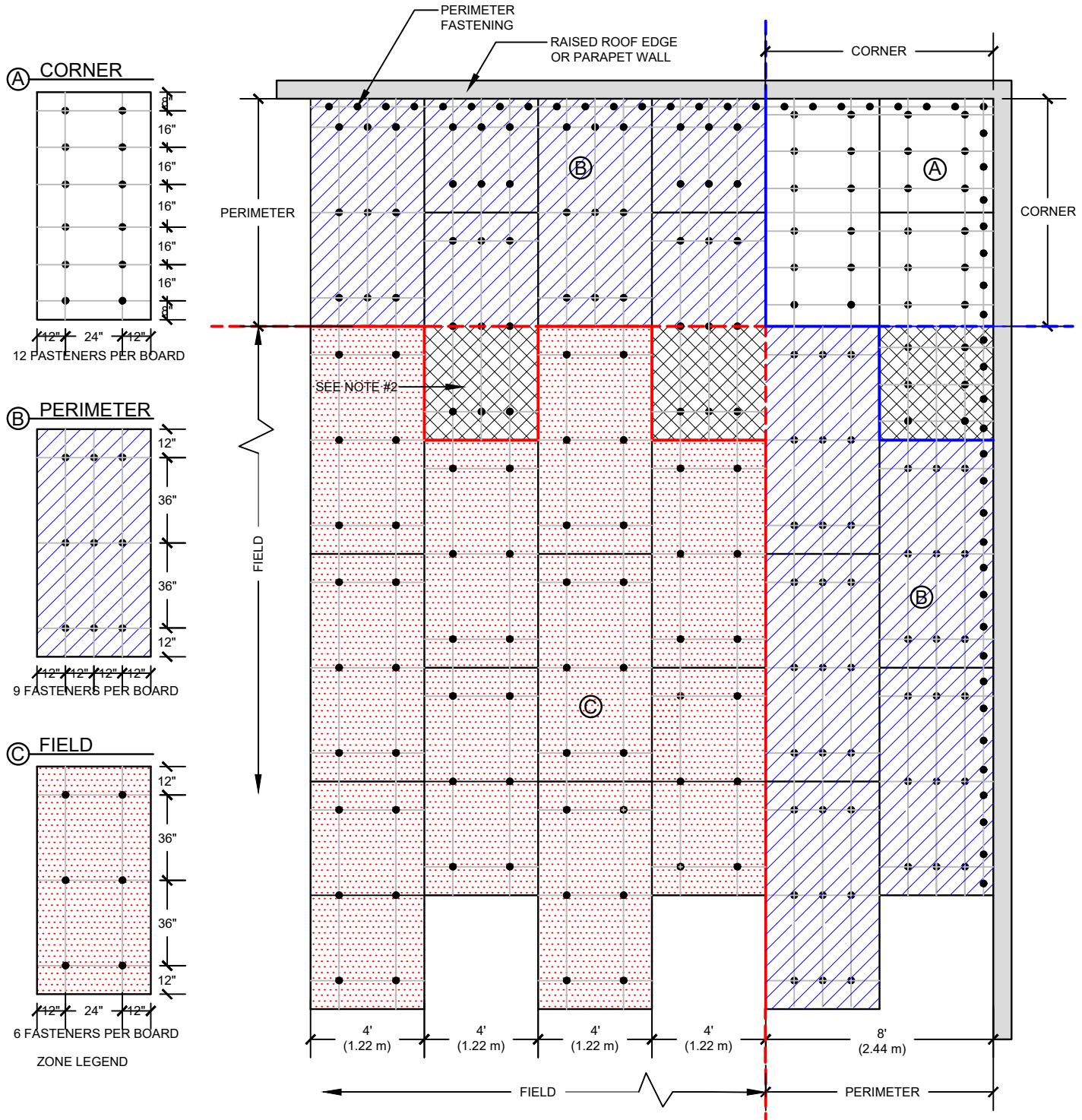
DRAWING #  
**106**

THIS DETAIL APPLIES TO:  
**ALL SYSTEMS**      ISSUE / REVISION DATE: **8/11/20**      SCALE: **N.T.S.**

### LEGEND

|  |                      |
|--|----------------------|
|  | PERIMETER ATTACHMENT |
|  | CORNER ATTACHMENT    |

## SINGLE-PLY: TPO & PVC



**NOTE:**

1. SEE EVERGUARD® SYSTEM GUIDELINES IN SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ENHANCEMENTS FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS.
2. IF A PORTION OF A BOARD EXTENDS INTO ANOTHER ZONE, IT MUST DEFER TO THE ZONE OF THE GREATER FASTENING PATTERN.
3. OVER APPROVED STEEL & CONCRETE DECKS.

**GAF**

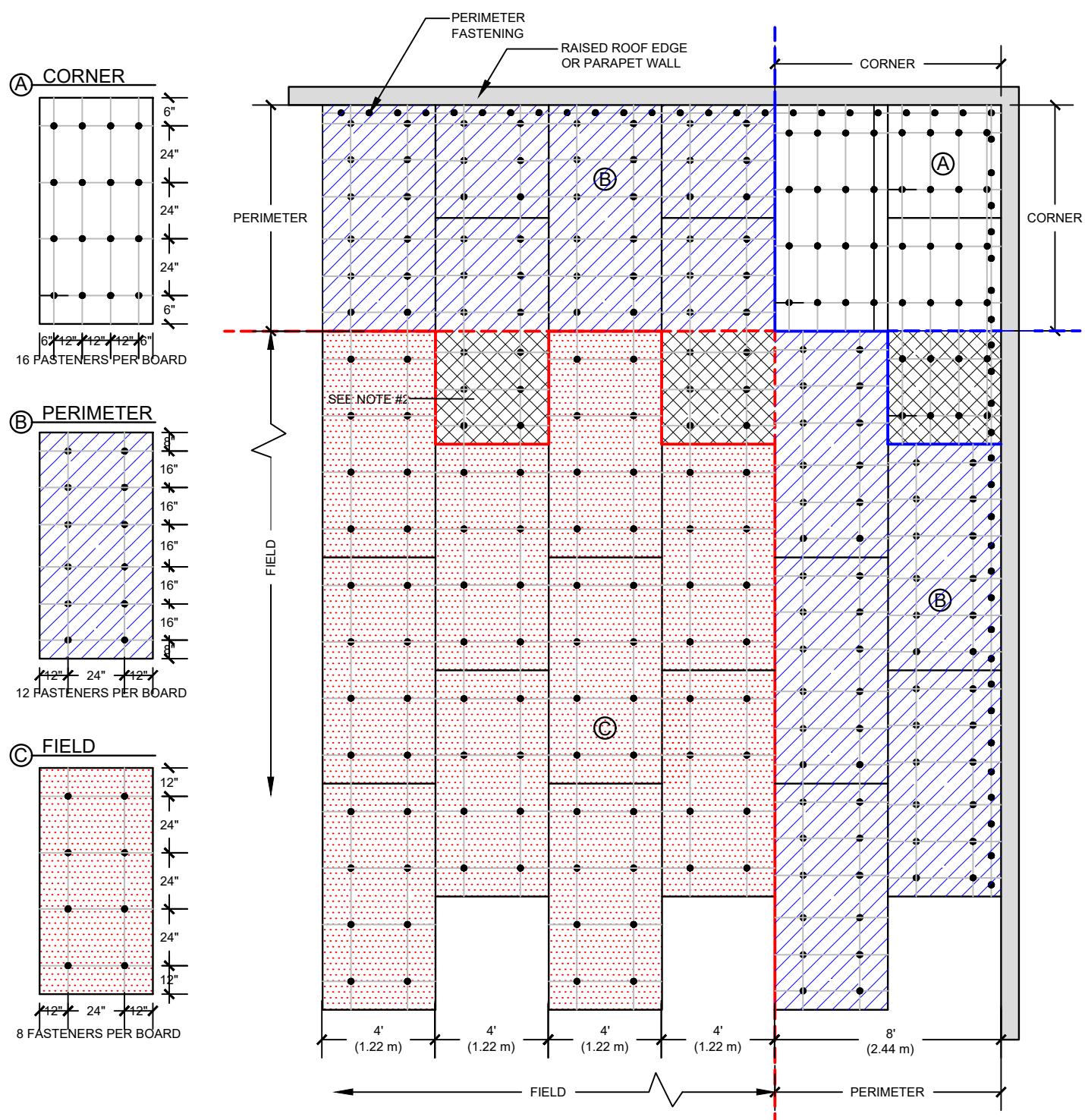
### RHINOBOND® FASTENING ZONES & LOCATIONS

DRAWING #  
**107A**

THIS DETAIL APPLIES TO: **RHINOBOND® SYSTEMS** ISSUE / REVISION DATE: **8/17/20** SCALE: **N.T.S.**

| LEGEND          |
|-----------------|
| FIELD ZONE      |
| PERIMETER ZONE  |
| CORNER ZONE     |
| TRANSITION ZONE |

# SINGLE-PLY: TPO & PVC



**NOTE:**

- SEE EVERGUARD® SYSTEM GUIDELINES IN SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ENHANCEMENTS FOR VARIOUS DECK TYPES AND WIND UPLIFT REQUIREMENTS.
- IF A PORTION OF A BOARD EXTENDS INTO ANOTHER ZONE, IT MUST DEFER TO THE ZONE OF THE GREATER FASTENING PATTERN.
- OVER APPROVED WOOD DECKS.

**GAF**

## DRILL-TEC™ RHINOBOND® INSULATION FASTENING ZONES

DRAWING #  
**107B**

THIS DETAIL APPLIES TO:  
**RHINOBOND® SYSTEMS**

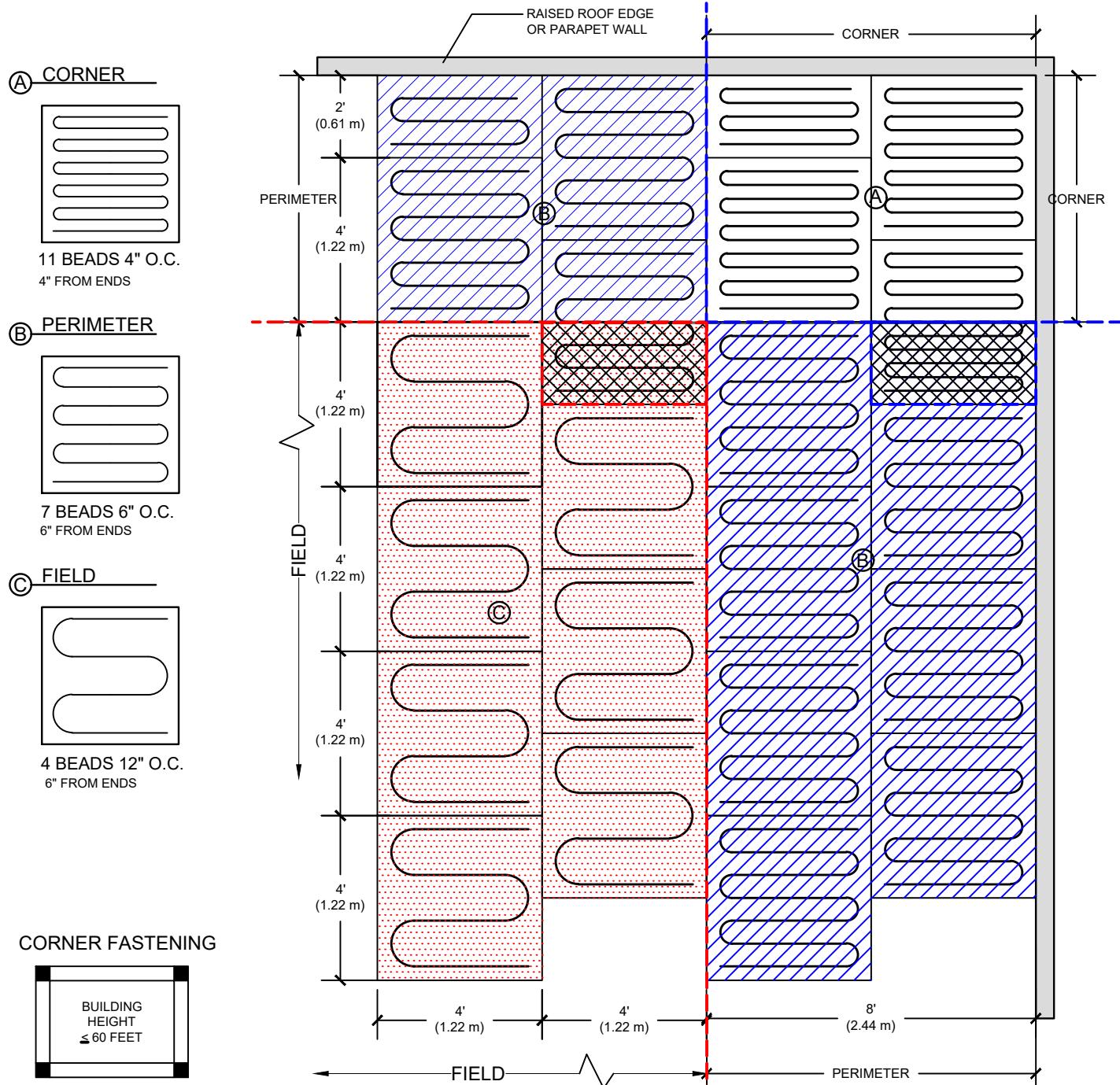
ISSUE / REVISION DATE  
**8/17/20**

SCALE  
**N.T.S.**

### LEGEND

|  |                 |
|--|-----------------|
|  | FIELD ZONE      |
|  | PERIMETER ZONE  |
|  | CORNER ZONE     |
|  | TRANSITION ZONE |

# SINGLE-PLY: TPO & PVC



**GAF**

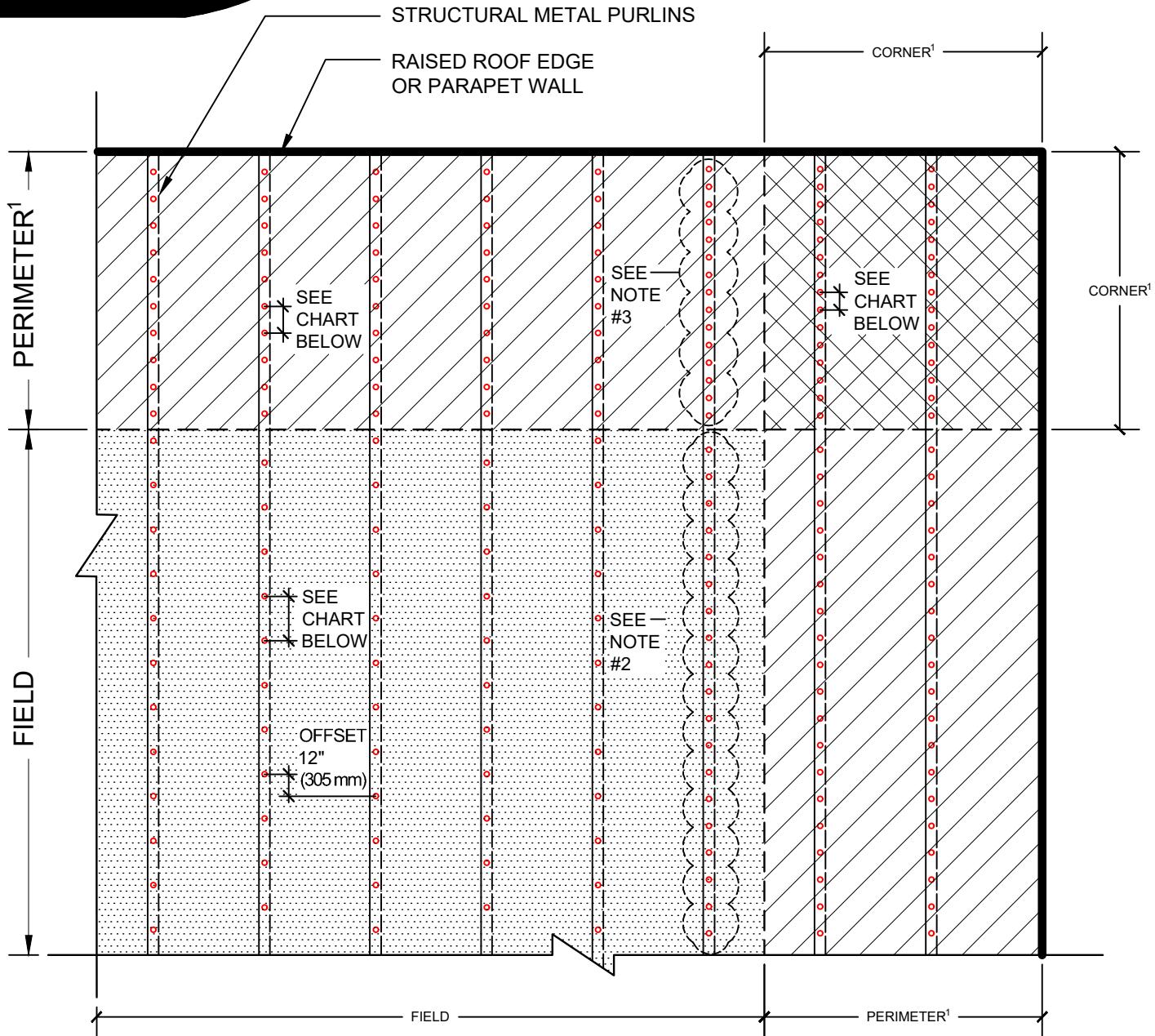
## LOW RISE FOAM FASTENING ZONES & PATTERNS

DRAWING #  
**107C**

THIS DETAIL APPLIES TO: **ADHERED SYSTEMS** ISSUE / REVISION DATE: **2/12/21** SCALE: **N.T.S.**

### LEGEND

|  |                 |
|--|-----------------|
|  | FIELD ZONE      |
|  | PERIMETER ZONE  |
|  | CORNER ZONE     |
|  | TRANSITION ZONE |



| MAXIMUM FASTENER SPACING |            |                |             |
|--------------------------|------------|----------------|-------------|
| PURLIN TYPE              | FIELD ZONE | PERIMETER ZONE | CORNER ZONE |
| MIN. 16 GA.              | 24" O.C.   | 10" O.C.       | 8" O.C.     |
| MIN. 14 GA.              | 24" O.C.   | 12" O.C.       | 9" O.C.     |
| MIN. 12 GA.              | 24" O.C.   | 12" O.C.       | 9" O.C.     |

## NOTE:

1. SEE EVERGUARD® SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ZONES.
2. DEFAULTS TO PERIMETER FASTENING RATE.
3. DEFAULTS TO CORNER FASTENING RATE.

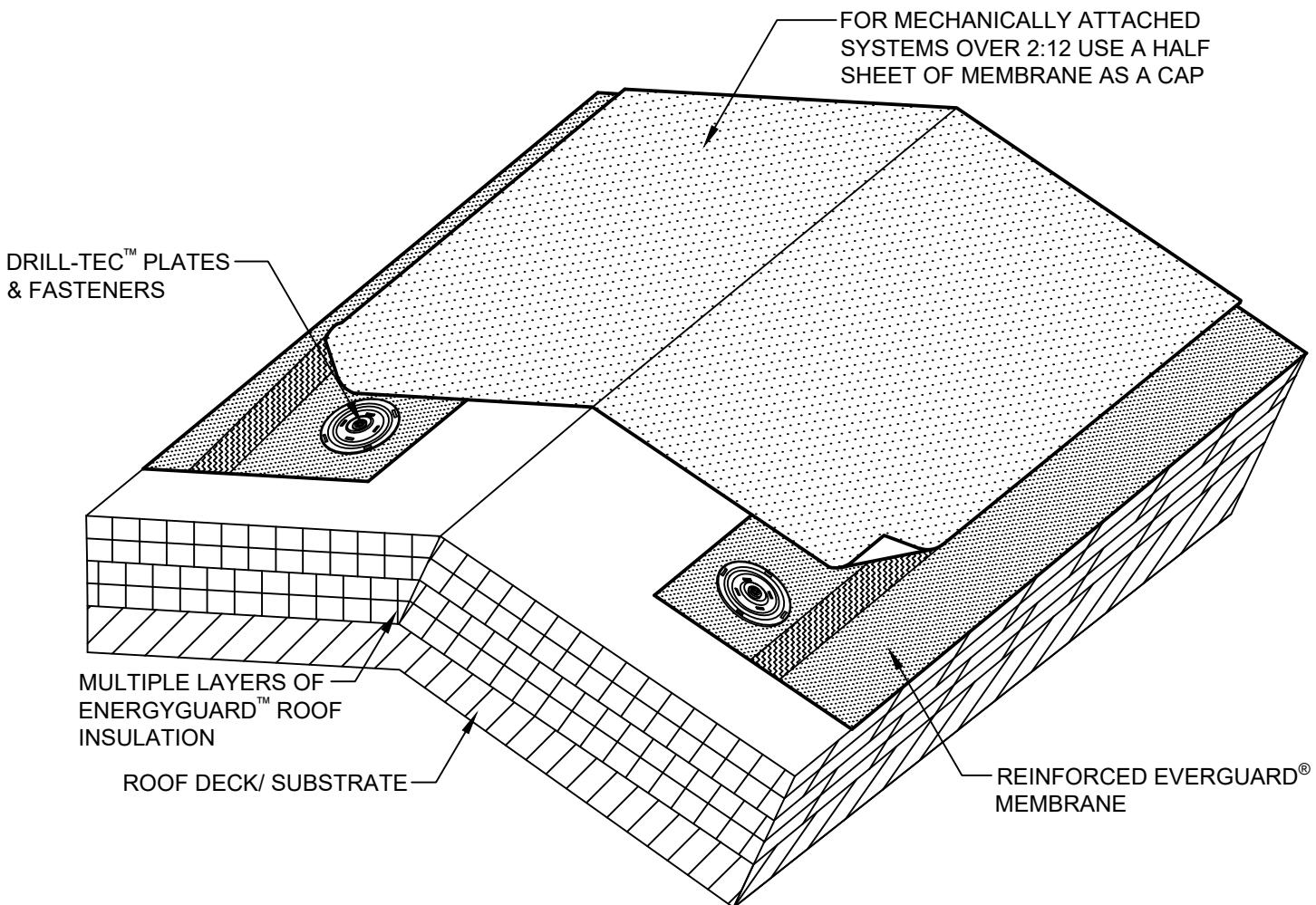

**PURLIN FASTENING ZONES  
- DRILL-TEC™ RHINOBOND® ATTACHMENT**

 DRAWING #  
**108A**

 THIS DETAIL APPLIES TO:  
**RHINOBOND® SYSTEMS** ISSUE / REVISION DATE  
**8/17/20** SCALE  
**N.T.S.**

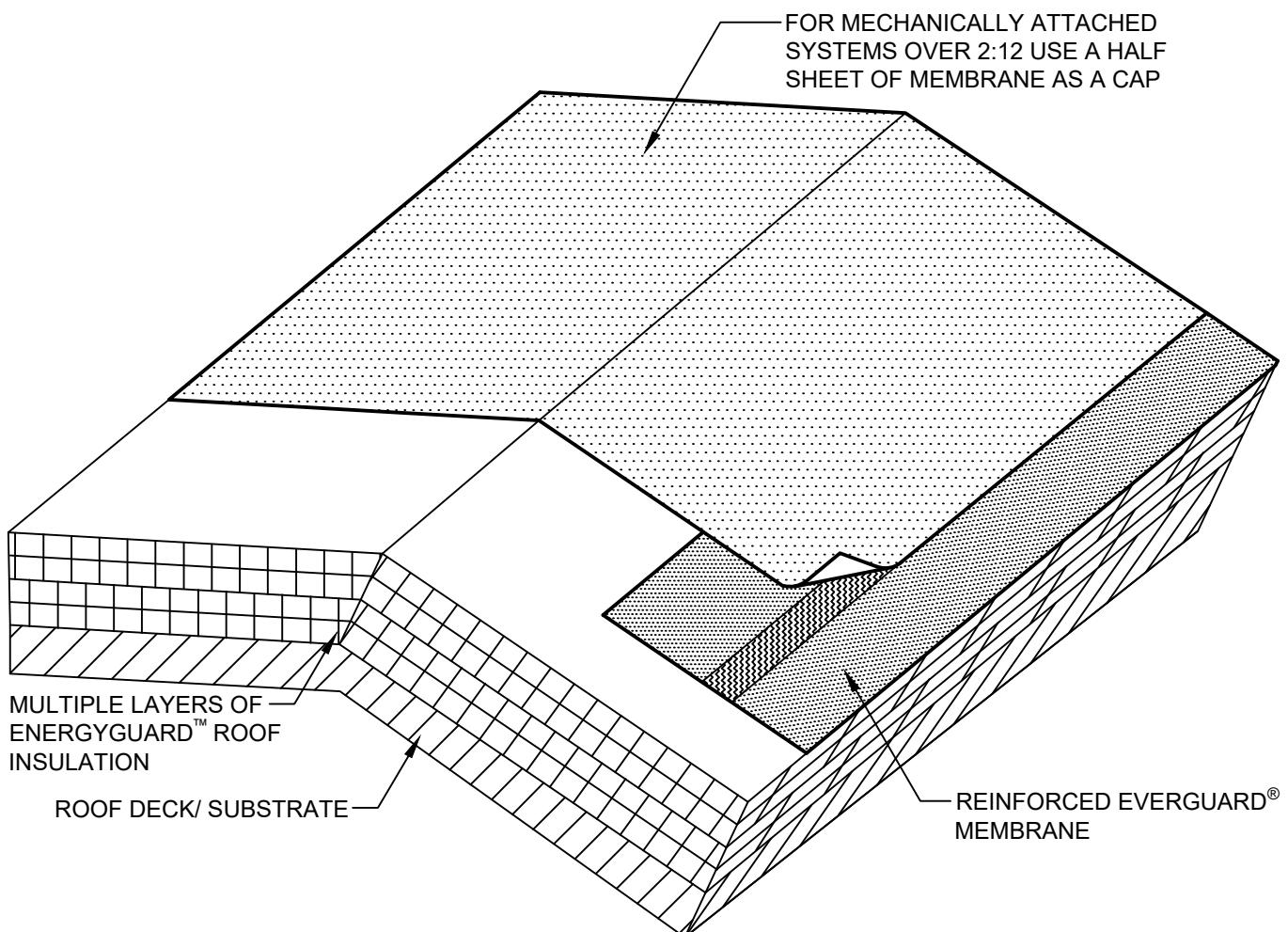
## LEGEND

|  |                |
|--|----------------|
|  | FIELD ZONE     |
|  | PERIMETER ZONE |
|  | CORNER ZONE    |

**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED.
2. DO NOT RUN CAP SHEET INTO THE PERIMETER HALF SHEET REGION.

**GAF****RIDGE FLASHING**DRAWING #  
**110A****LEGEND**
 HEAT-WELDED



GAF

## RIDGE FLASHING

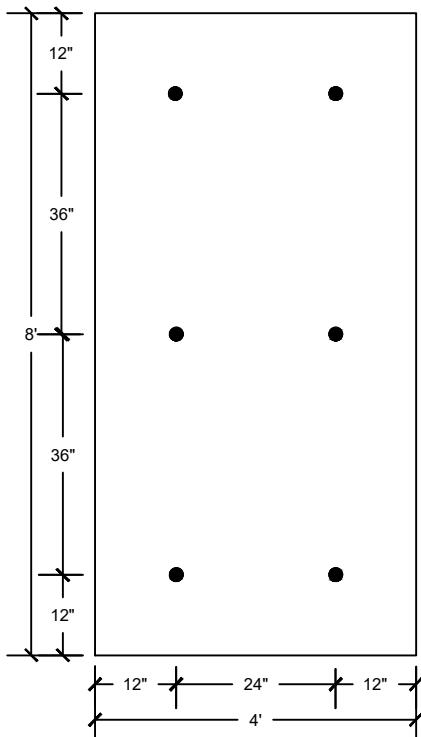
DRAWING #  
110B

## LEGEND

HEAT-WELDED

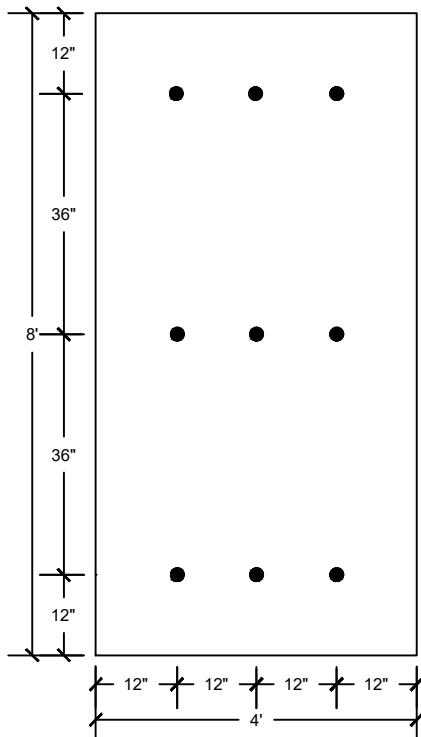
THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
BALLASTED SYSTEMS  
RHINOBOND™ SYSTEMS  
SELF-ADHERED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

FIELD AREA



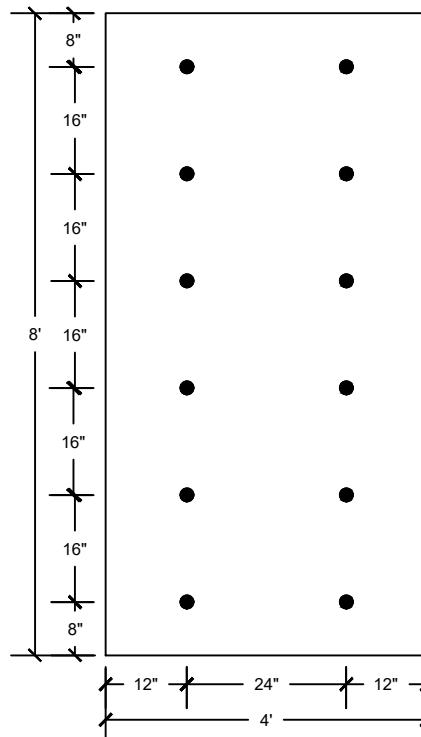
6 FASTENERS PER BOARD

PERIMETER AREA



9 FASTENERS PER BOARD

CORNER AREA



12 FASTENERS PER BOARD

**NOTE:**

1. REFERENCE SPECIFIC SYSTEM/INSULATION TYPE AND THICKNESS REQUIREMENTS.
2. DRILL-TEC™ RHINOBOND® PLATE-WELDED SYSTEM IS NOT ACCEPTABLE FOR GYPSUM, CEMENTITIOUS WOOD FIBER OR OSB.
3. REFER TO THE RHINOBOND® SPEC MANUAL FOR FASTENER AND DECK REQUIREMENTS.


**STANDARD FASTENING PATTERN  
- OVER APPROVED STEEL OR CONCRETE DECKS**
DRAWING #  
**111A**

THIS DETAIL APPLIES TO:

RHINOBOND® SYSTEMS

ISSUE / REVISION DATE

8/17/20

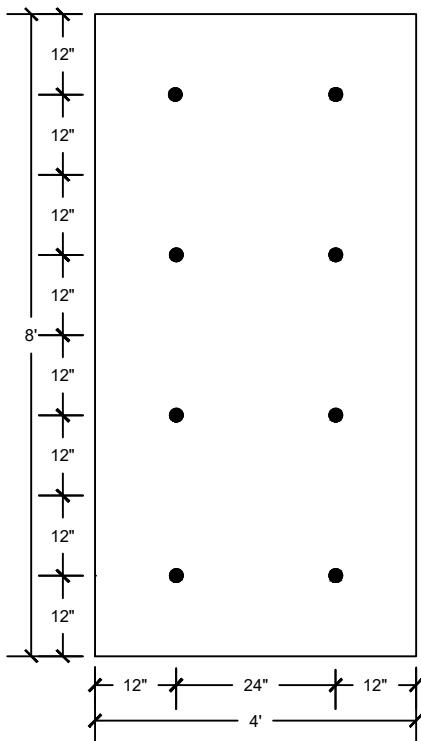
SCALE

N.T.S.

**LEGEND**

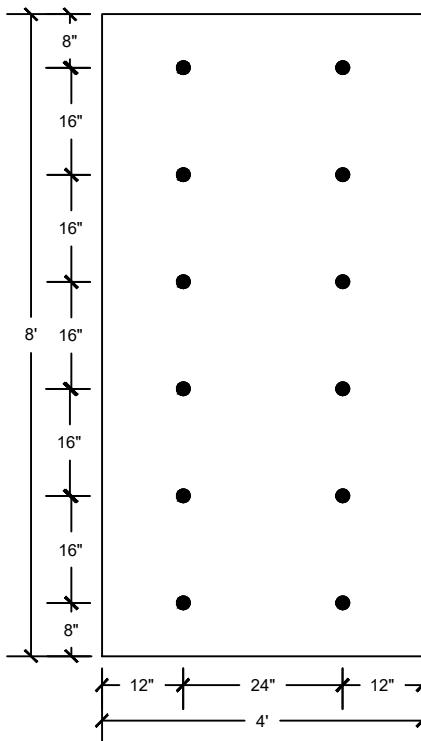
FASTENERS

FIELD AREA



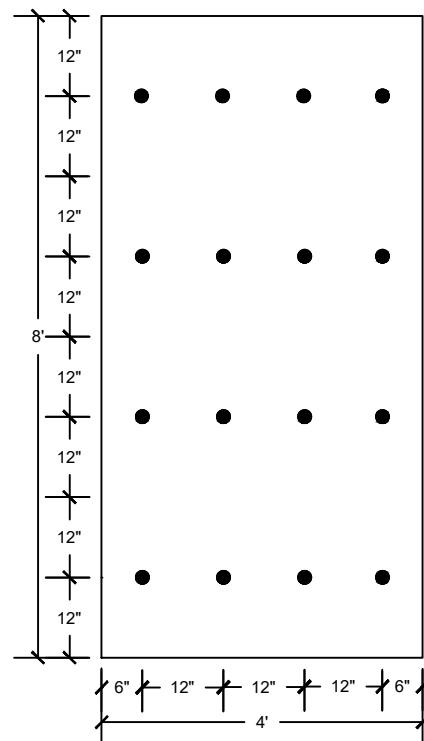
8 FASTENERS PER BOARD

PERIMETER AREA



12 FASTENERS PER BOARD

CORNER AREA



16 FASTENERS PER BOARD

**NOTE:**

1. REFERENCE SPECIFIC SYSTEM/INSULATION TYPE AND THICKNESS REQUIREMENTS.
2. DRILL-TEC™ RHINOBOND® PLATE-WELDED SYSTEM IS NOT ACCEPTABLE FOR GYPSUM, CEMENTITIOUS WOOD FIBER OR OSB.
3. REFER TO THE RHINOBOND® SPEC MANUAL FOR FASTENER AND DECK REQUIREMENTS.


**STANDARD FASTENING PATTERN  
- OVER APPROVED WOOD DECKS**

 DRAWING #  
**111B**

THIS DETAIL APPLIES TO:

RHINOBOND® SYSTEMS

ISSUE / REVISION DATE

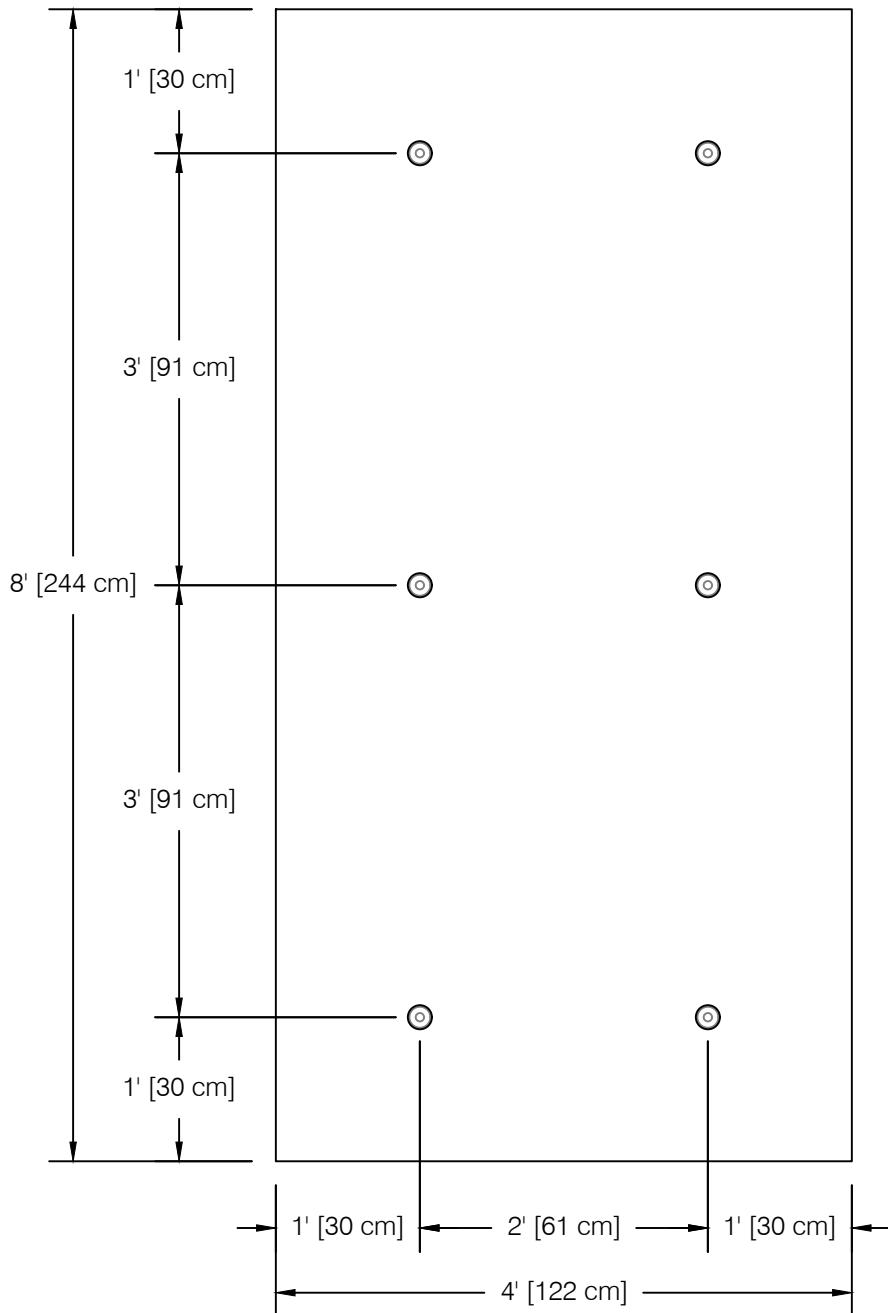
8/17/20

SCALE

N.T.S.

**LEGEND**

FASTENERS

FIELD AREANOTES:

1. CSA 123.21:20 DYNAMIC WIND UPLIFT UPDATE: EVERGUARD® TPO OR EVERGUARD EXTREME® TPO RHINOBOND® ATTACHMENT TO 22 GA. STEEL DECK WITH (6) PLATES AND FASTENERS, MINIMUM 2.6" [66 mm] THICK INSULATION BOARD, AND GAF SA VAPOR RETARDER XL.
2. DRILL-TEC™ RHINOBOND® INDUCTION WELDED SYSTEM IS NOT ACCEPTABLE FOR GYPSUM, CEMENTITIOUS WOOD FIBER, OR OSB DECKS.

|                                                        |  |  |
|--------------------------------------------------------|--|--|
| STANDARD FASTENING PATTERN - OVER APPROVED STEEL DECKS |  |  |
|--------------------------------------------------------|--|--|

DETAIL

111C

ROOF AREA

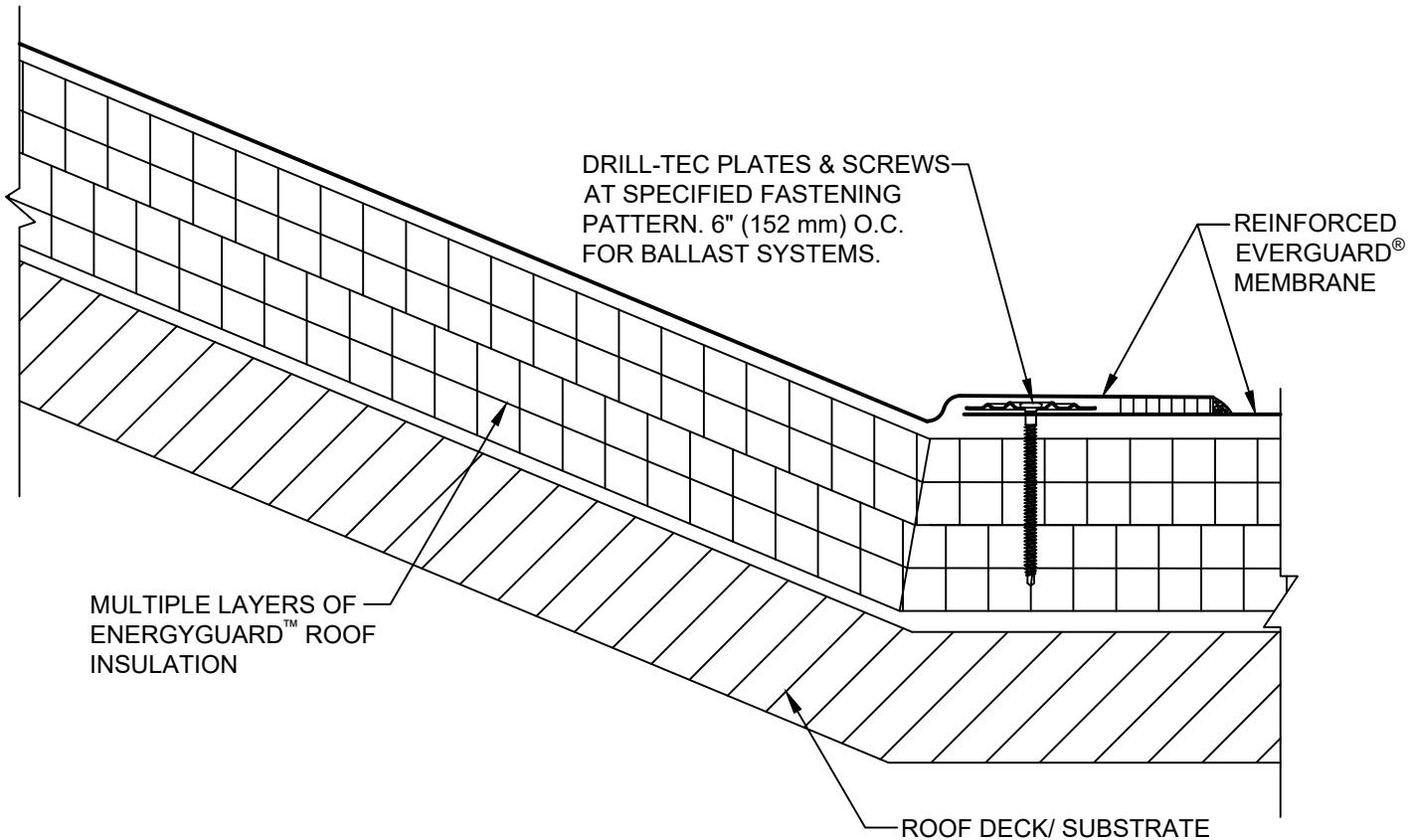
ISSUE DATE

SCALE

FIELD OF ROOF

2/10/2023

3/4" = 1'



## NOTE:

1. ANYTHING 1:12 OR GREATER NEEDS TO BE FASTENED AT ANGLE CHANGE.

GAF

## CHANGE OF DECK PLANE

DRAWING #  
112

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/11/20

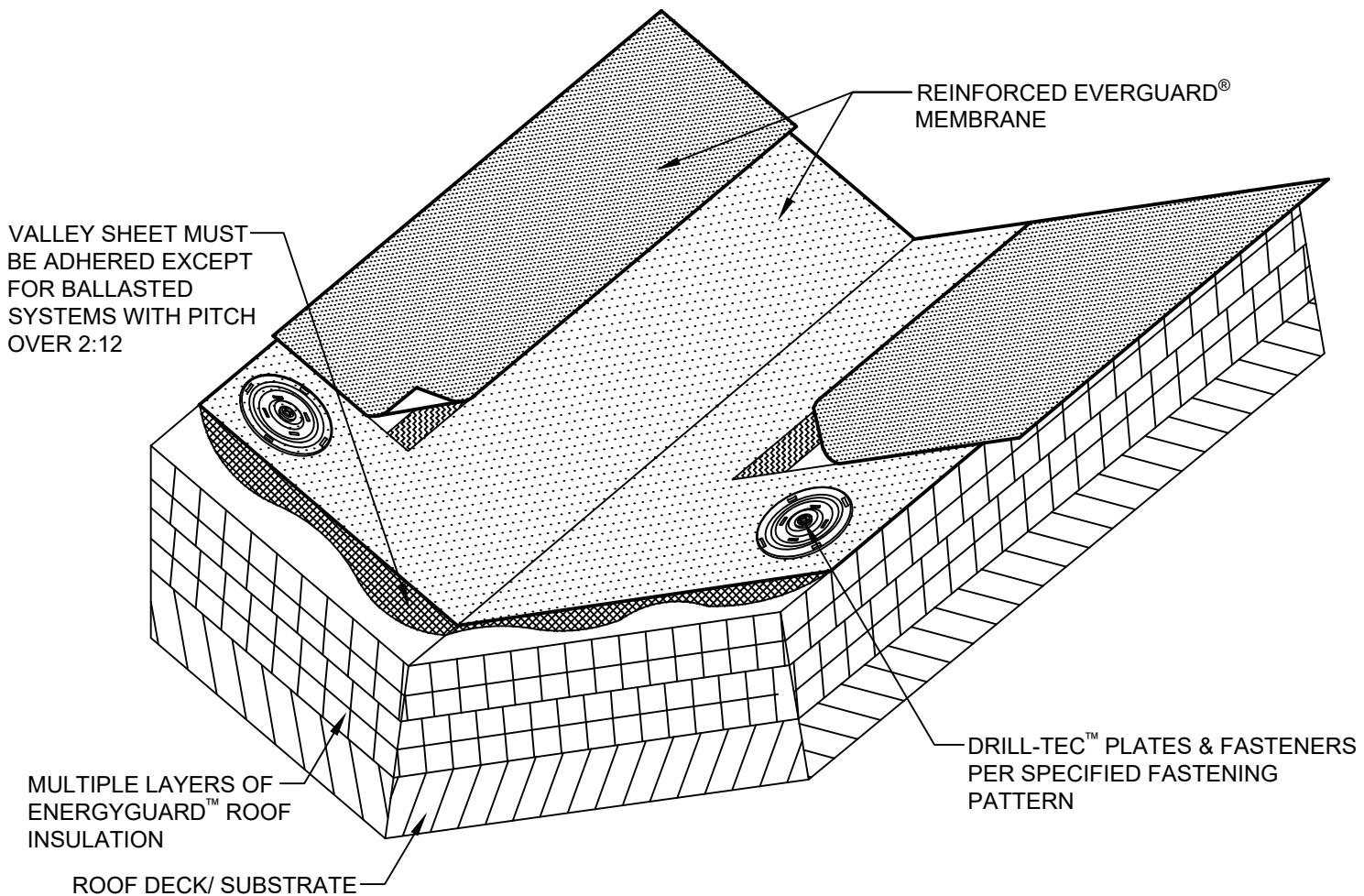
SCALE

N.T.S.

## LEGEND

HEAT-WELDED

EVERGUARD® CUT EDGE SEALANT IF REQUIRED



## NOTE:

1. FOR MECHANICALLY ATTACHED SYSTEMS, VALLEYS MUST BE ADHERED USING APPROPRIATE BONDING ADHESIVE.



## VALLEY FLASHING

DRAWING #  
**113**

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

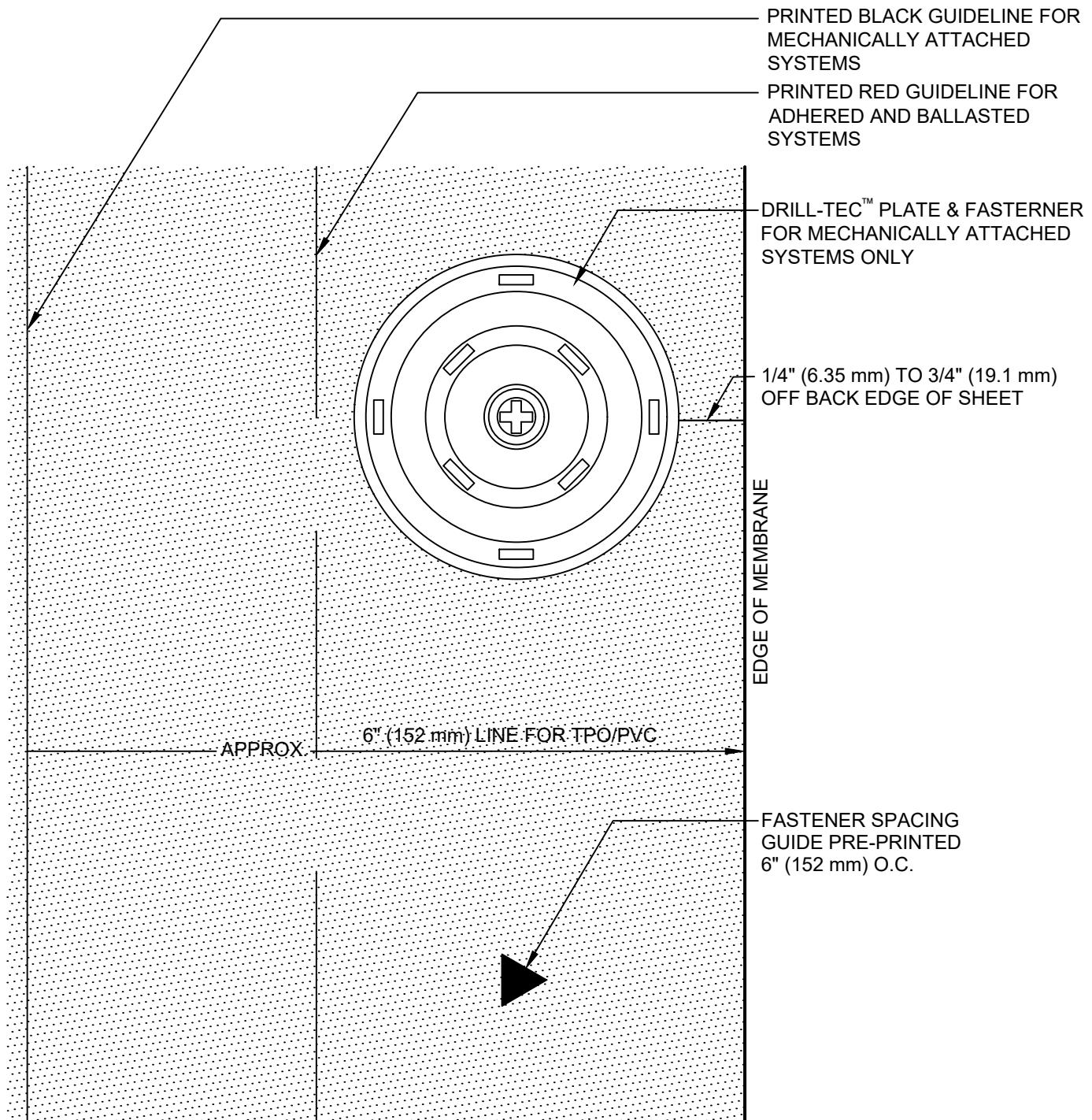
8/11/20

SCALE

N.T.S.

## LEGEND

|  |                             |
|--|-----------------------------|
|  | HEAT-WELDED SEAMS           |
|  | EVERGUARD® BONDING ADHESIVE |

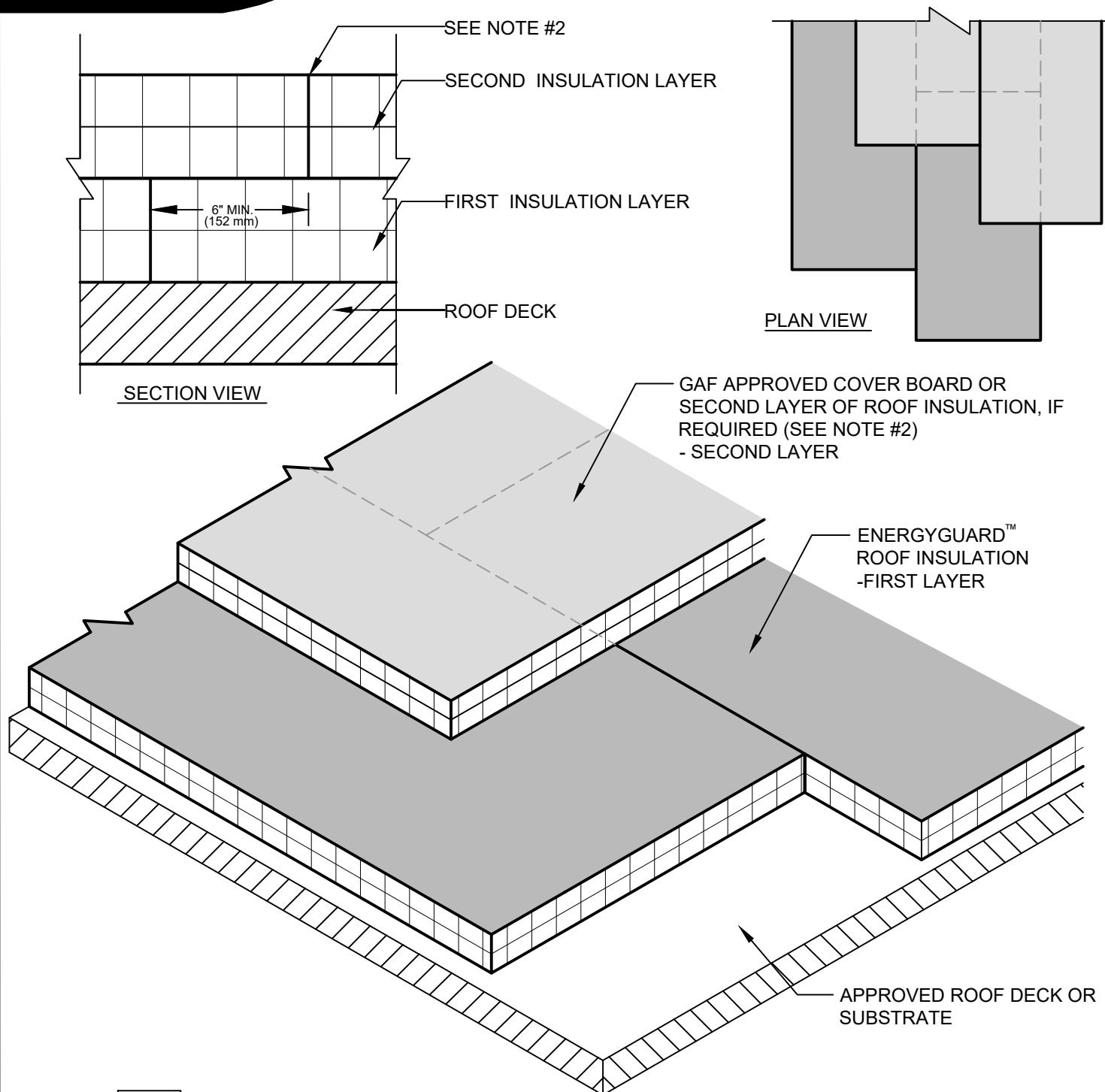


GAF

## FASTENER PLACEMENT AT MEMBRANE EDGE

LEGEND

DRAWING #  
116THIS DETAIL APPLIES TO:  
BALLASTED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/17/20SCALE  
N.T.S.



## NOTE:

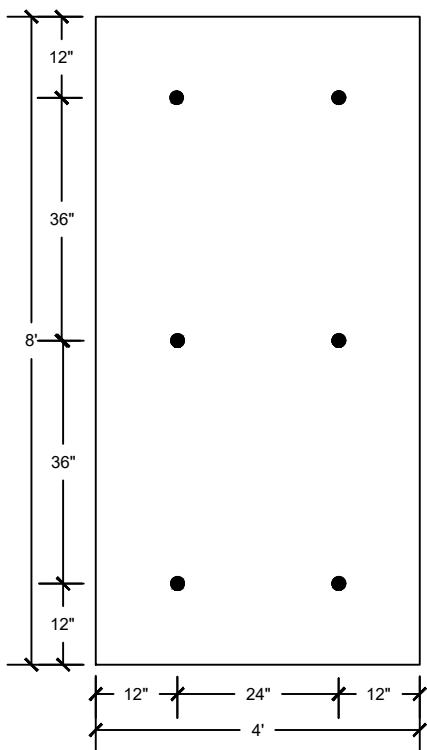
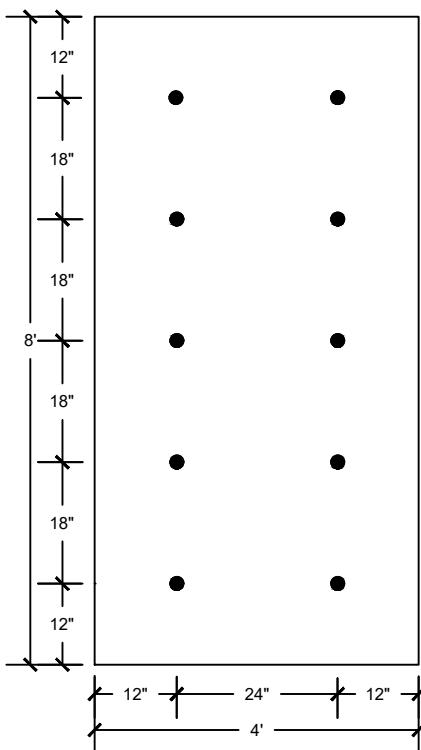
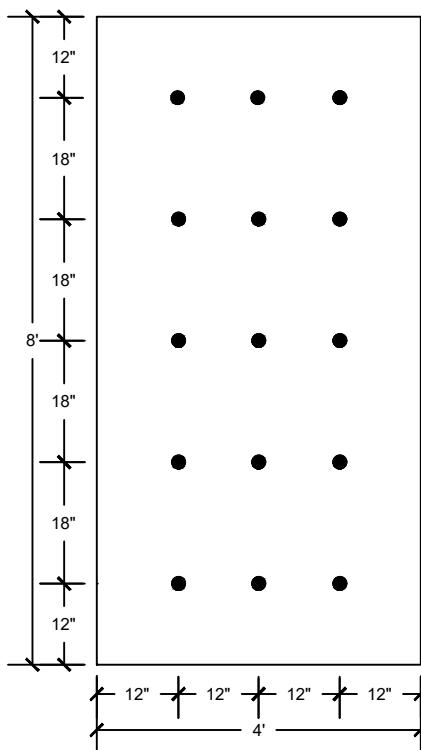
1. REFER TO THE EVERGUARD® SPEC MANUAL FOR DETAILED INSTALLATION REQUIREMENTS.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.
3. INSULATION BOARDS INSTALLED OVER STEEL DECKING MUST HAVE BOARDS PLACED PERPENDICULAR TO DECK FLUTES WITH EDGES OVER FLUTE SURFACE FOR BEARING SUPPORT.

GAF

## STAGGERED INSULATION BOARD LAYOUT

DRAWING #  
120THIS DETAIL APPLIES TO:  
ALL SYSTEMSISSUE / REVISION DATE  
8/11/20SCALE  
N.T.S.

LEGEND

FIELD AREA\*  
90 PSF6 FASTENERS PER  
BOARDPERIMETER AREA  
(ENHANCED)10 FASTENERS PER  
BOARDCORNER AREA  
(ENHANCED)15 FASTENERS PER  
BOARD

## NOTE:

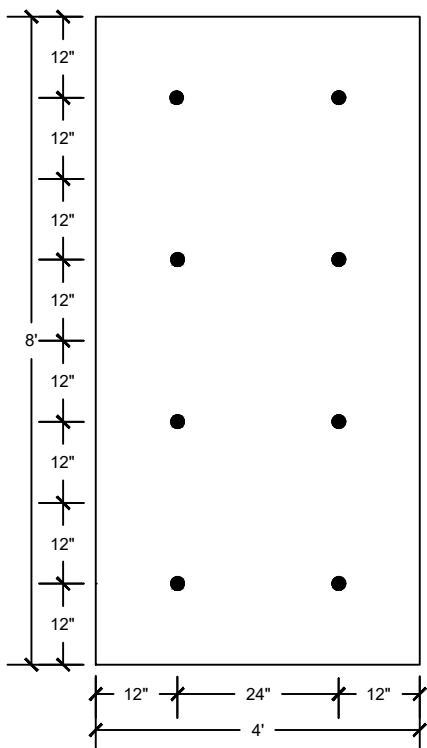
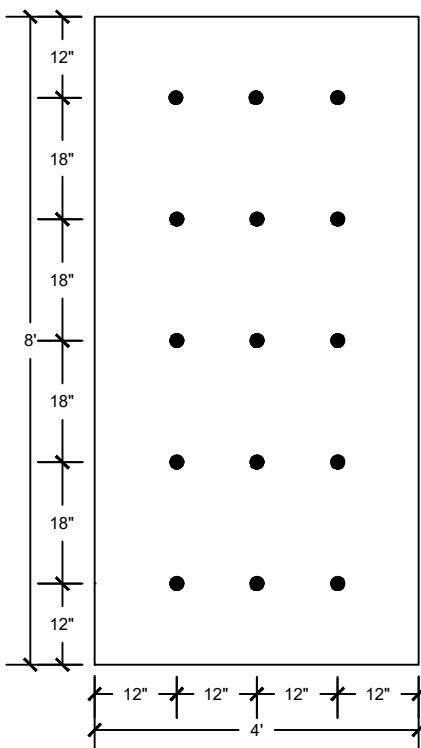
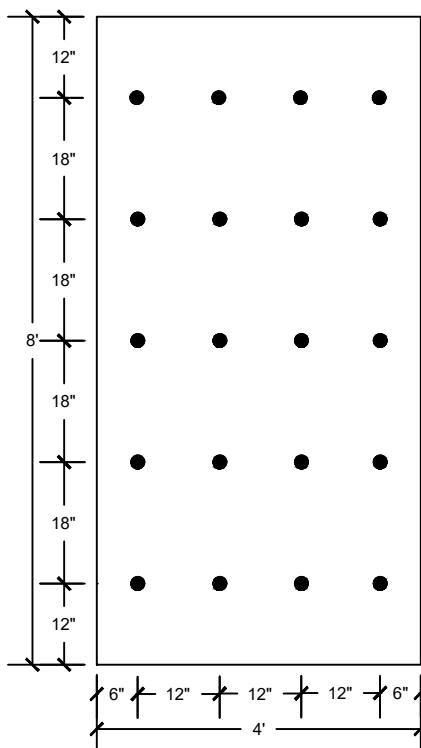
1. REFERENCE SPECIFIC SYSTEM/INSULATION TYPE AND THICKNESS REQUIREMENTS.
2. DRILL-TEC™ RHINOBOND® ATTACHMENT SYSTEM IS NOT ACCEPTABLE FOR GYPSUM, CEMENTITIOUS WOOD FIBER OR OSB.
3. REFER TO THE RHINOBOND® SPEC MANUAL FOR FASTENER AND DECK REQUIREMENTS.
4. CONSULT FM APPROVALS, ROOFNAV LISTINGS, AND FM DATA SHEETS 1-28 AND 1-29 AT [HTTP://ROOFNAV.COM](http://ROOFNAV.COM), FOR DETAILED INSTALLATION REQUIREMENTS AND RECOMMENDATIONS FOR FM APPROVED INSTALLATIONS OR CONTACT TECHNICAL SALES SUPPORT AT 800-766-3411 FOR ASSISTANCE.

\*THE FIELD OF ROOF ATTACHMENTS ABOVE EQUATE TO FM 1-90 RATINGS

**GAF**90 PSF FASTENING PATTERN  
- OVER APPROVED STEEL AND CONCRETE DECKSDRAWING #  
**121**THIS DETAIL APPLIES TO:  
RHINOBOND® SYSTEMSISSUE / REVISION DATE  
**8/17/20**SCALE  
N.T.S.

## LEGEND

● ● ● FASTENERS

FIELD AREA\*  
120 PSF8 FASTENERS PER  
BOARDPERIMETER AREA  
(ENHANCED)15 FASTENERS PER  
BOARDCORNER AREA  
(ENHANCED)20 FASTENERS PER  
BOARD

## NOTE:

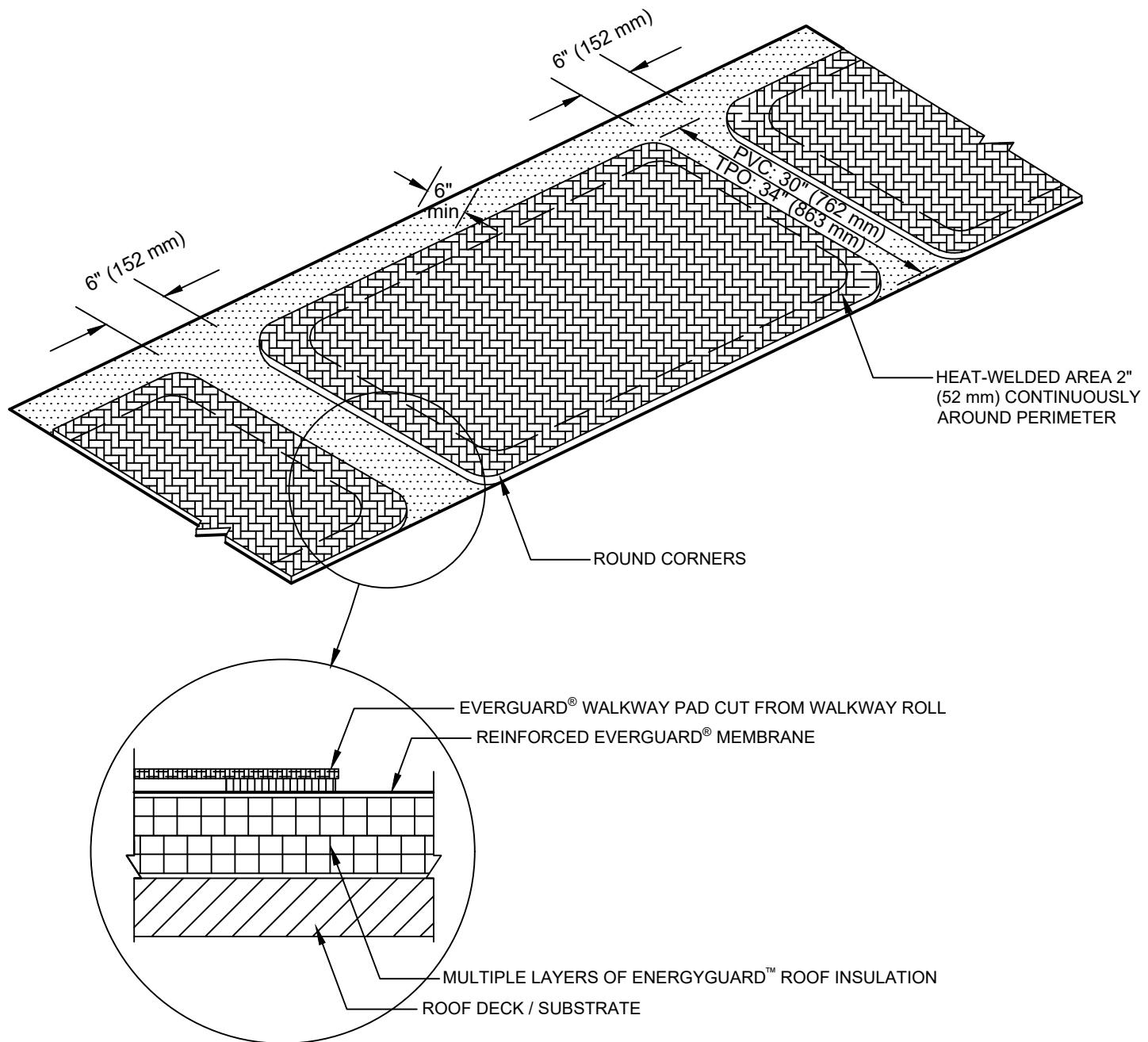
1. REFERENCE SPECIFIC SYSTEM/INSULATION TYPE AND THICKNESS REQUIREMENTS.
2. DRILL-TEC™ RHINOBOND® ATTACHMENT SYSTEM IS NOT ACCEPTABLE FOR GYPSUM, CEMENTITIOUS WOOD FIBER OR OSB.
3. REFER TO THE RHINOBOND® SPEC MANUAL FOR FASTENER AND DECK REQUIREMENTS.
4. CONSULT FM APPROVALS, ROOFNAV LISTINGS, AND FM DATA SHEETS 1-28 AND 1-29 AT [HTTP://ROOFNAV.COM](http://ROOFNAV.COM), FOR DETAILED INSTALLATION REQUIREMENTS AND RECOMMENDATIONS FOR FM APPROVED INSTALLATIONS OR CONTACT TECHNICAL SALES SUPPORT AT 800-766-3411 FOR ASSISTANCE.

\*THE FIELD OF ROOF ATTACHMENTS ABOVE EQUATE TO FM 1-120 RATINGS

**GAF**120 PSF FASTENING PATTERN  
- OVER APPROVED STEEL AND CONCRETE DECKSDRAWING #  
**122**THIS DETAIL APPLIES TO:  
RHINOBOND® SYSTEMSISSUE / REVISION DATE  
8/17/20SCALE  
N.T.S.

## LEGEND

● ● ● FASTENERS



NOTE:

1. REMEMBER, DO NOT CROSS SEAMS WITH WALKWAY PADS 6" (152 mm) OFF EACH SEAM.
2. HEAT-WELD EDGE OF WALKWAY PADS CONTINUOUSLY.
3. REQUIRED AT ALL ROOF ACCESS POINTS.

**GAF**

HEAT-WELDED WALKWAY PADS

DRAWING #  
**150**

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

11/11/20

SCALE

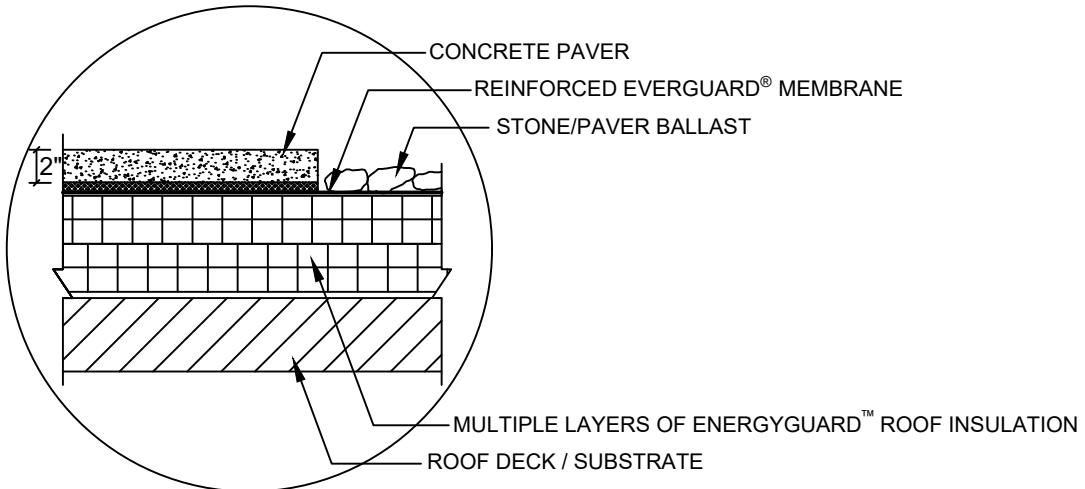
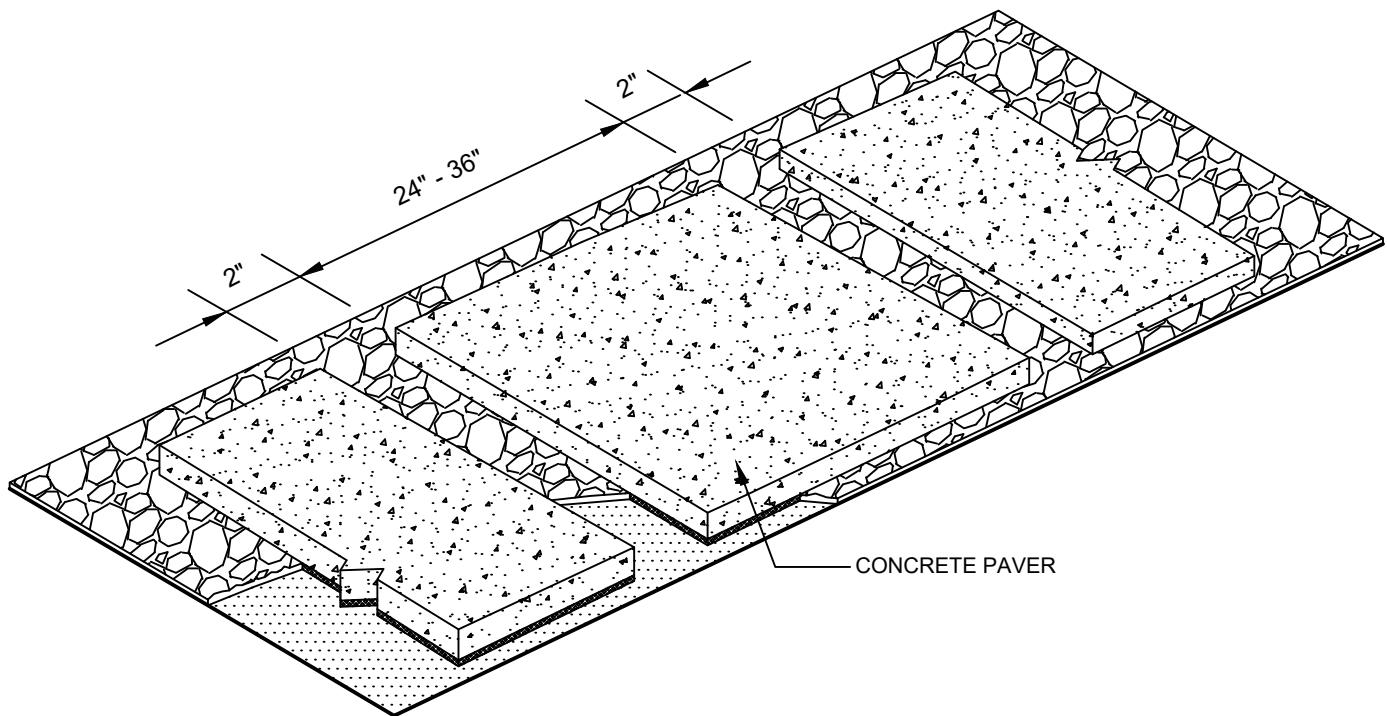
N.T.S.

LEGEND

WALKWAY PADS

HEAT-WELDED

REINFORCED EVERGUARD® MEMBRANE



NOTE:

1. REMEMBER: DO NOT CROSS SEAMS WITH CONCRETE PAVER OR EVERGUARD® POLY CUSHIONING SHEET.
2. GUARANTEE INSPECTION TO BE MADE BEFORE BALLAST IS BROADCAST AROUND ROOF.

**GAF**

PAVER WALKWAY PADS

DRAWING #  
**151**

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

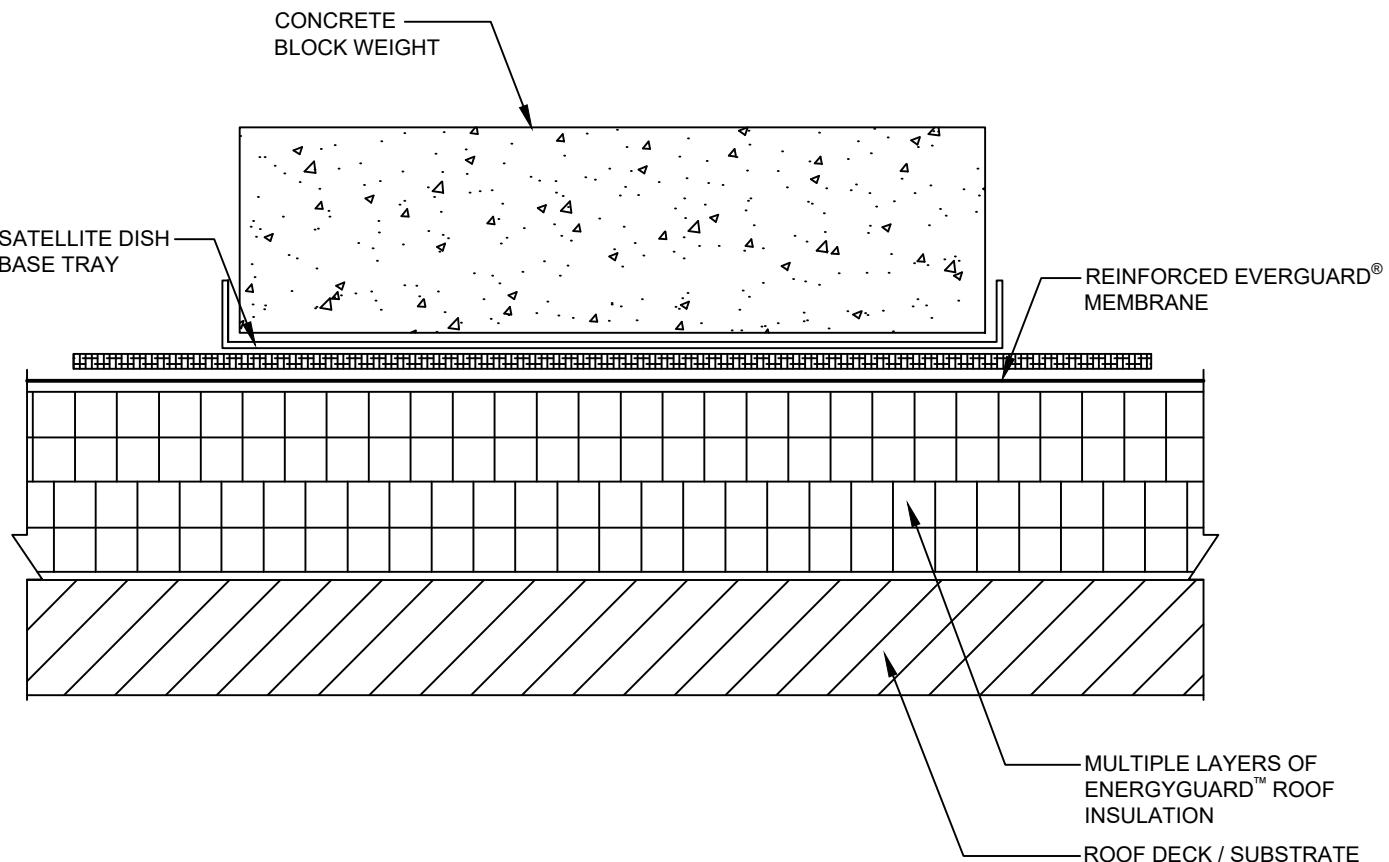
SCALE

BALLASTED SYSTEMS

**8/24/20**

LEGEND

|  |                                                                  |
|--|------------------------------------------------------------------|
|  | STONE/PAVER BALLAST                                              |
|  | EVERGUARD® POLY CUSHIONING LAYER<br>(IF BALLAST ROCK IS RE-USED) |
|  | REINFORCED EVERGUARD® MEMBRANE                                   |



GAF

## SATELLITE DISH MOUNTING

DRAWING #  
155

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

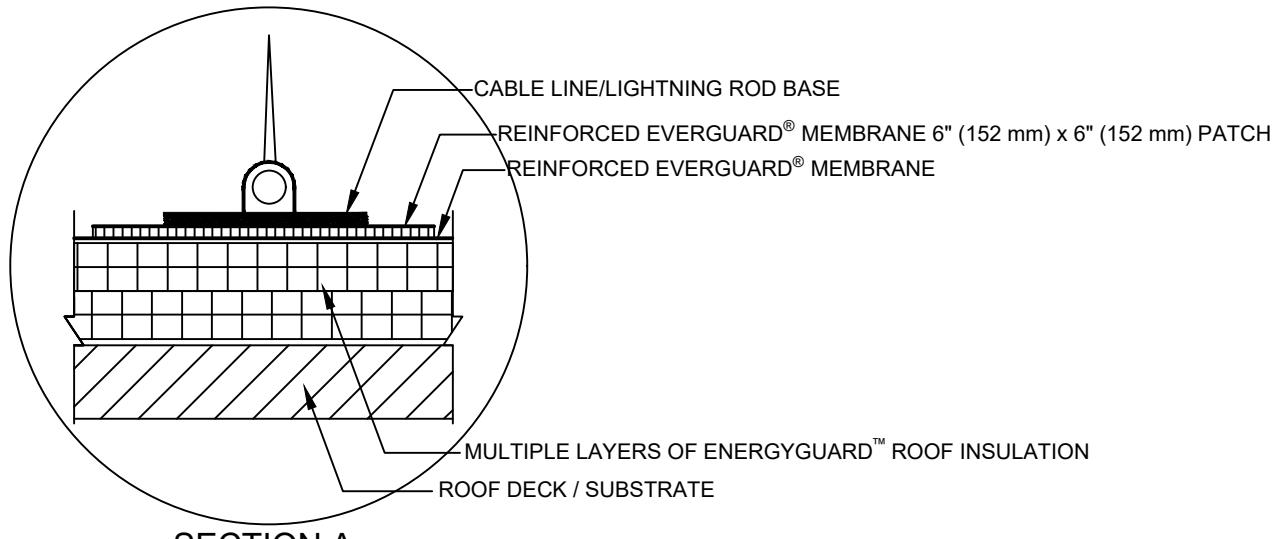
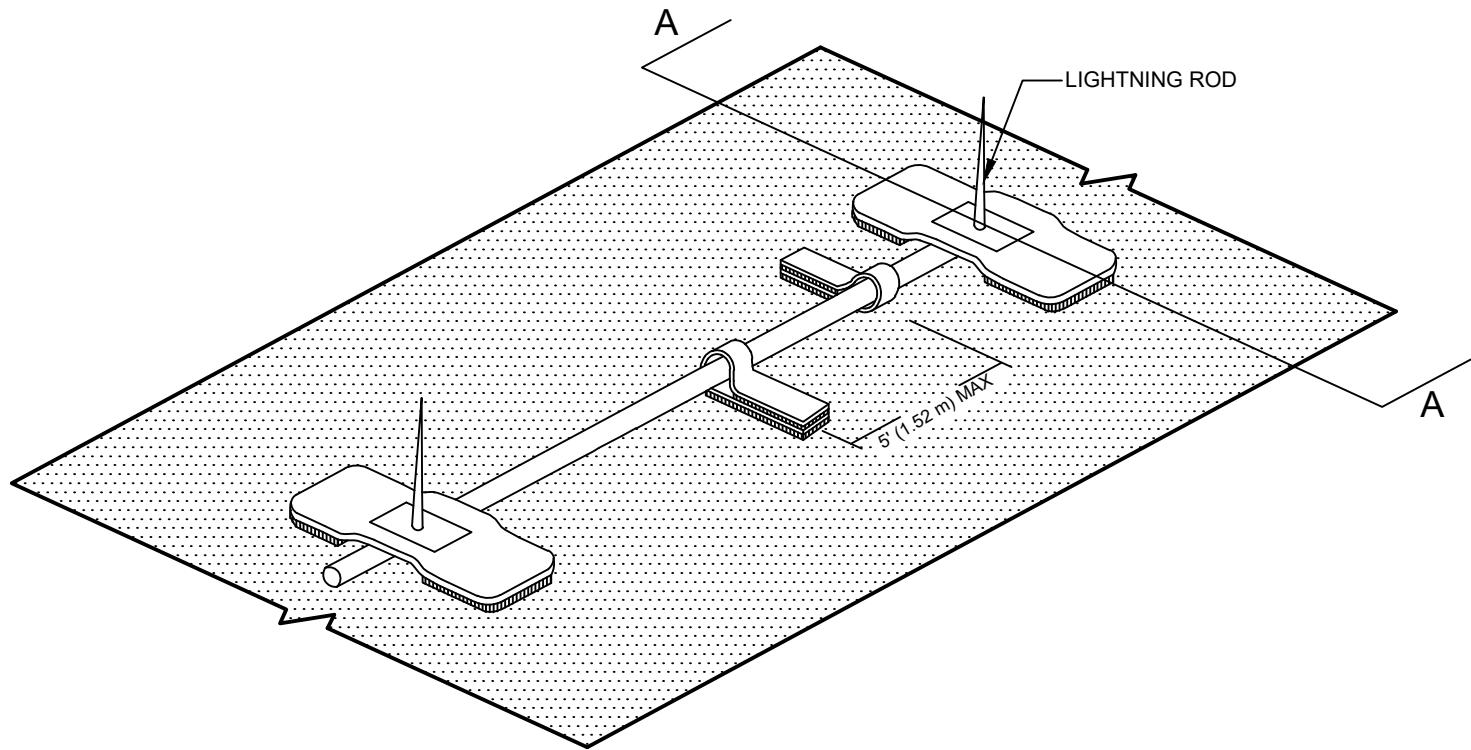
ALL SYSTEMS

8/24/20

N.T.S.

## LEGEND

EVERGUARD<sup>®</sup> WALKWAY PAD



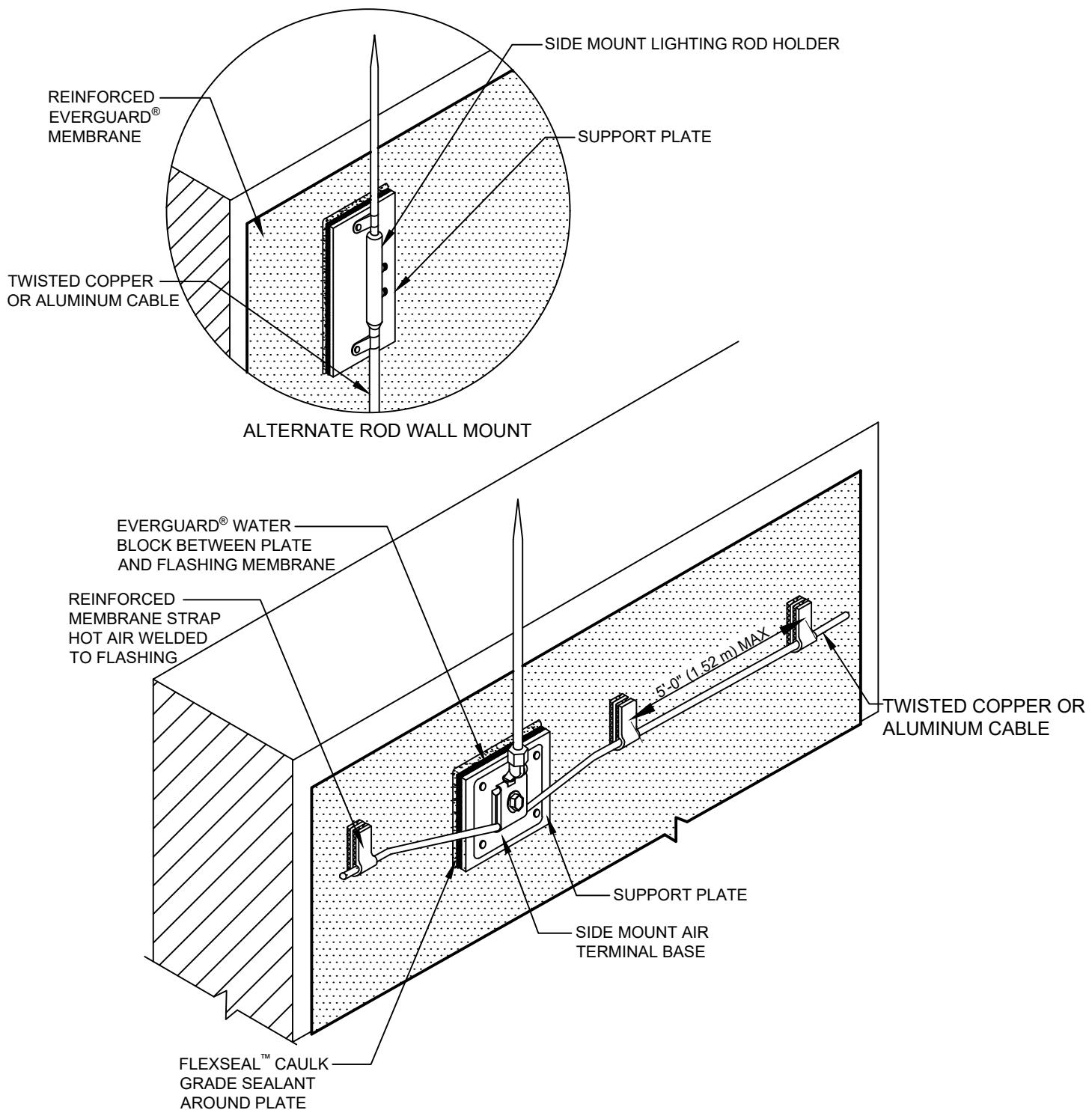
GAF

**LIGHTNING PROTECTION TERMINAL  
- ROOF MOUNT DETAIL**

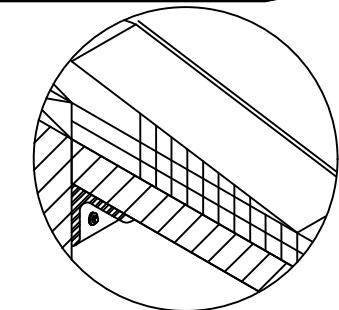
DRAWING #  
**160**THIS DETAIL APPLIES TO:  
**ALL SYSTEMS**ISSUE / REVISION DATE  
**8/24/20**SCALE  
**N.T.S.****LEGEND**

HEAT-WELDED

REINFORCED EVERGUARD® MEMBRANE



## SINGLE-PLY: TPO & PVC



FOR ALTERNATE TAPERED ROOF EDGE, USE ENERGYGUARD™ TAPERED INSULATION

22-GAUGE CONTINUOUS HOOK STRIP SECURED WITH DRILL-TEC™ FASTENERS @ 12" (305 mm) O.C.

RING SHANK GALVANIZED NAIL @ 4" (102 mm) O.C. STAGGERED OR DRILL-TEC™ FASTENERS 12" (305 mm) O.C. 2" (52 mm) MINIMUM FROM OUTSIDE EDGE OF METAL.

EVERGUARD® COATED METAL EDGE

EVERGUARD® TPO UTILITY FLASHING MEMBRANE (TPO ONLY) OR MIN. 8" (203 mm) WIDE REINFORCED EVERGUARD® MEMBRANE

REINFORCED EVERGUARD® MEMBRANE (PERIMETER SHEET IF REQUIRED)

MULTIPLE LAYERS OF ENERGYGUARD™ ROOF INSULATION, STAGGERED AND OFFSET

ROOF DECK/SUBSTRATE

WOOD NAILER, 5/4" (31.8 mm) x 4" (102 mm) MIN. SECURED TO DECK

### NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. 25-YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.
3. FOR HEAT-WELDING LAPS, USE 1.5" (38.1 mm) WELD WITH MACHINE AUTOMATIC WELDER AND (50.8 mm) WELD WITH HAND WELDER.
4. DO NOT OVERLAP ENDS OF FLASHING STRIP/COVER TAPE.



### COATED METAL ROOF EDGE

DRAWING #  
201B

THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
BALLASTED SYSTEMS  
RHINOBOND® SYSTEMS  
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE  
8/24/20

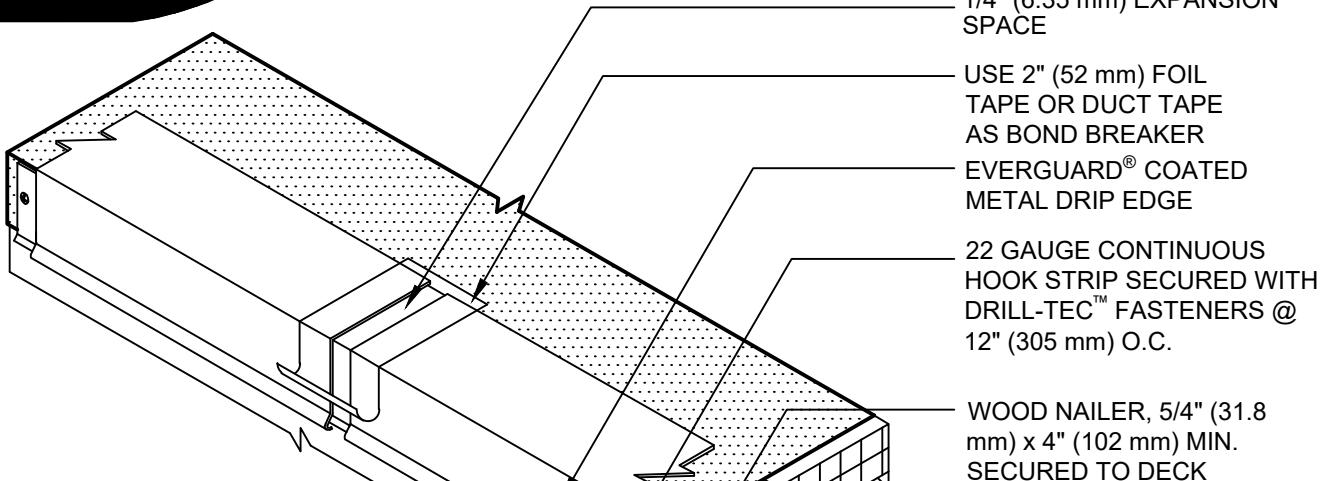
SCALE  
N.T.S.

### LEGEND

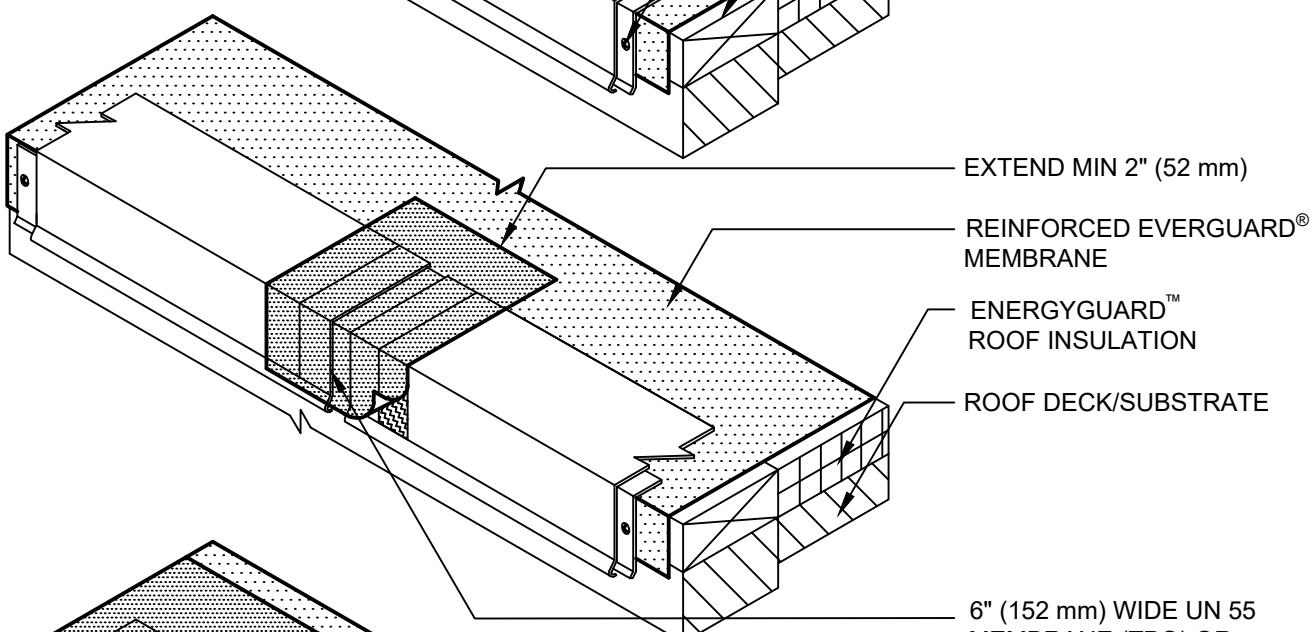
HEAT-WELDED

## SINGLE-PLY: TPO & PVC

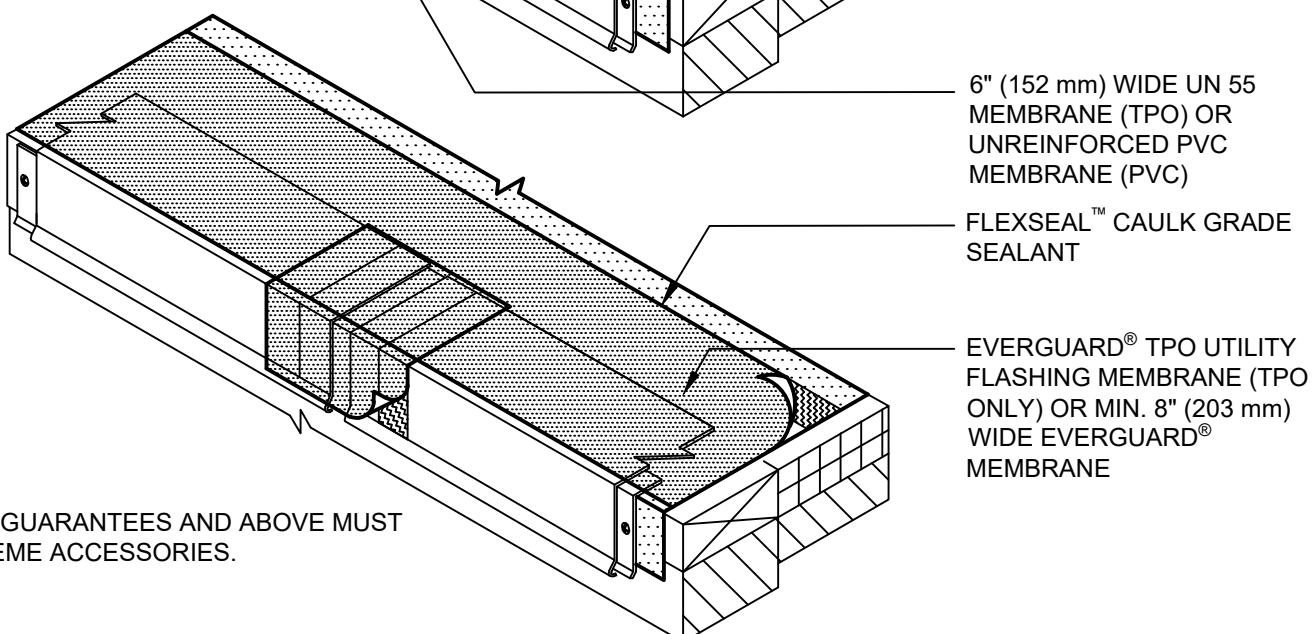
STEP 1.



STEP 2.



STEP 3.



NOTE:

1. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.

**GAF**

### COATED METAL JOINT DETAIL

#### LEGEND

DRAWING #  
**204**

THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINOBOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE  
**8/24/20**

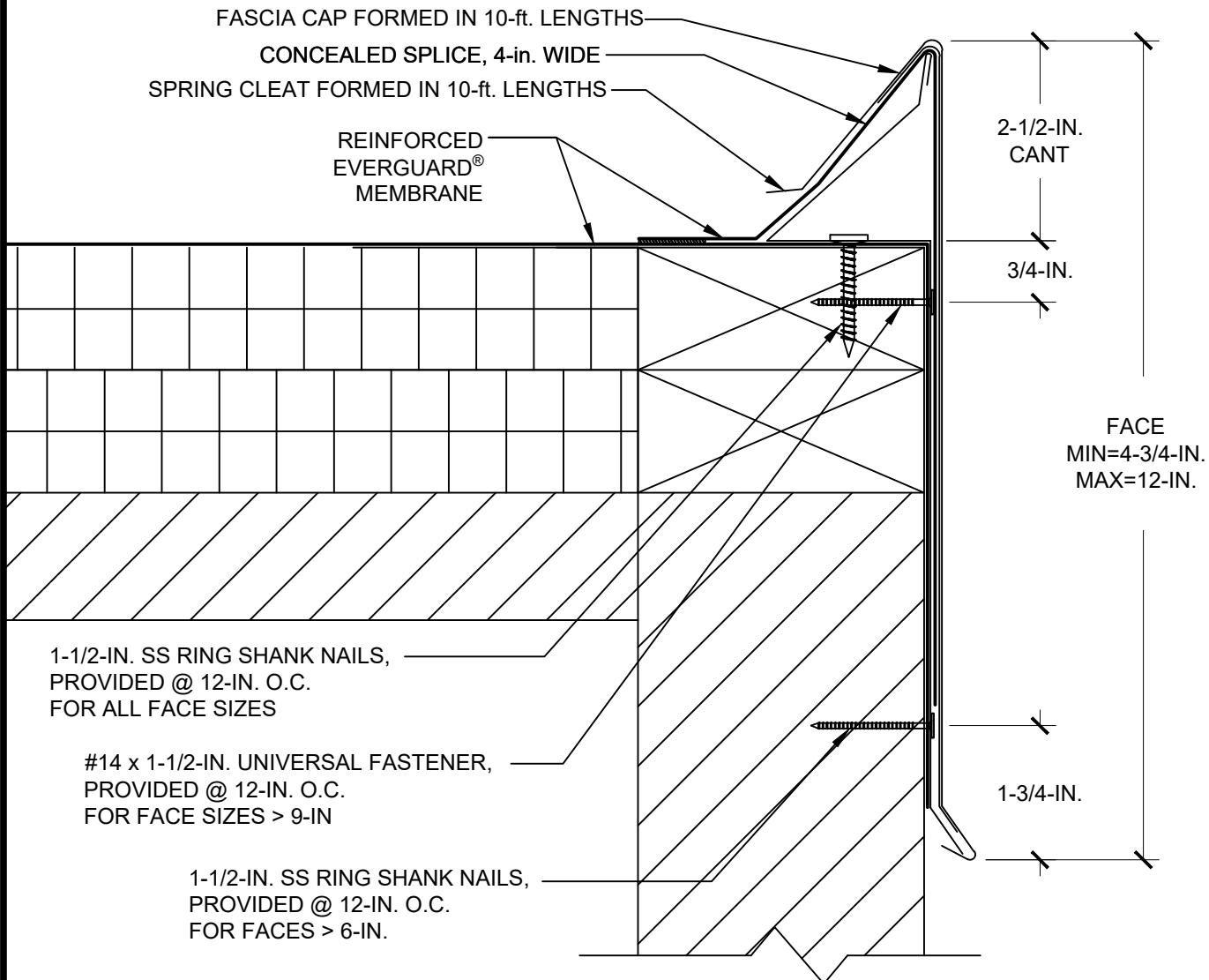
SCALE  
N.T.S.

HEAT-WELDED

# SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 117 PSF (HORIZONTAL)

| METAL TYPE      | MAXIMUM FRONT FACE HEIGHT (in.) | CLEAT (ga.) | PERIMETER PRESSURE (psf) |          | CORNER PRESSURE (psf) |          |
|-----------------|---------------------------------|-------------|--------------------------|----------|-----------------------|----------|
|                 |                                 |             | HORIZONTAL               | VERTICAL | HORIZONTAL            | VERTICAL |
| 0.050" ALUMINUM | 6                               | 24          | 73                       | N/A      | 73                    | N/A      |
| 0.050" ALUMINUM | 9                               | 22          | 87                       | N/A      | 91                    | N/A      |
| 0.050" ALUMINUM | 12                              | 22          | 116                      | N/A      | 109                   | N/A      |
| 24 GA. STEEL    | 6                               | 24          | 87                       | N/A      | 91                    | N/A      |
| 24 GA. STEEL    | 9                               | 22          | 102                      | N/A      | 91                    | N/A      |
| 24 GA. STEEL    | 12                              | 22          | 102                      | N/A      | 91                    | N/A      |



**NOTE:**

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

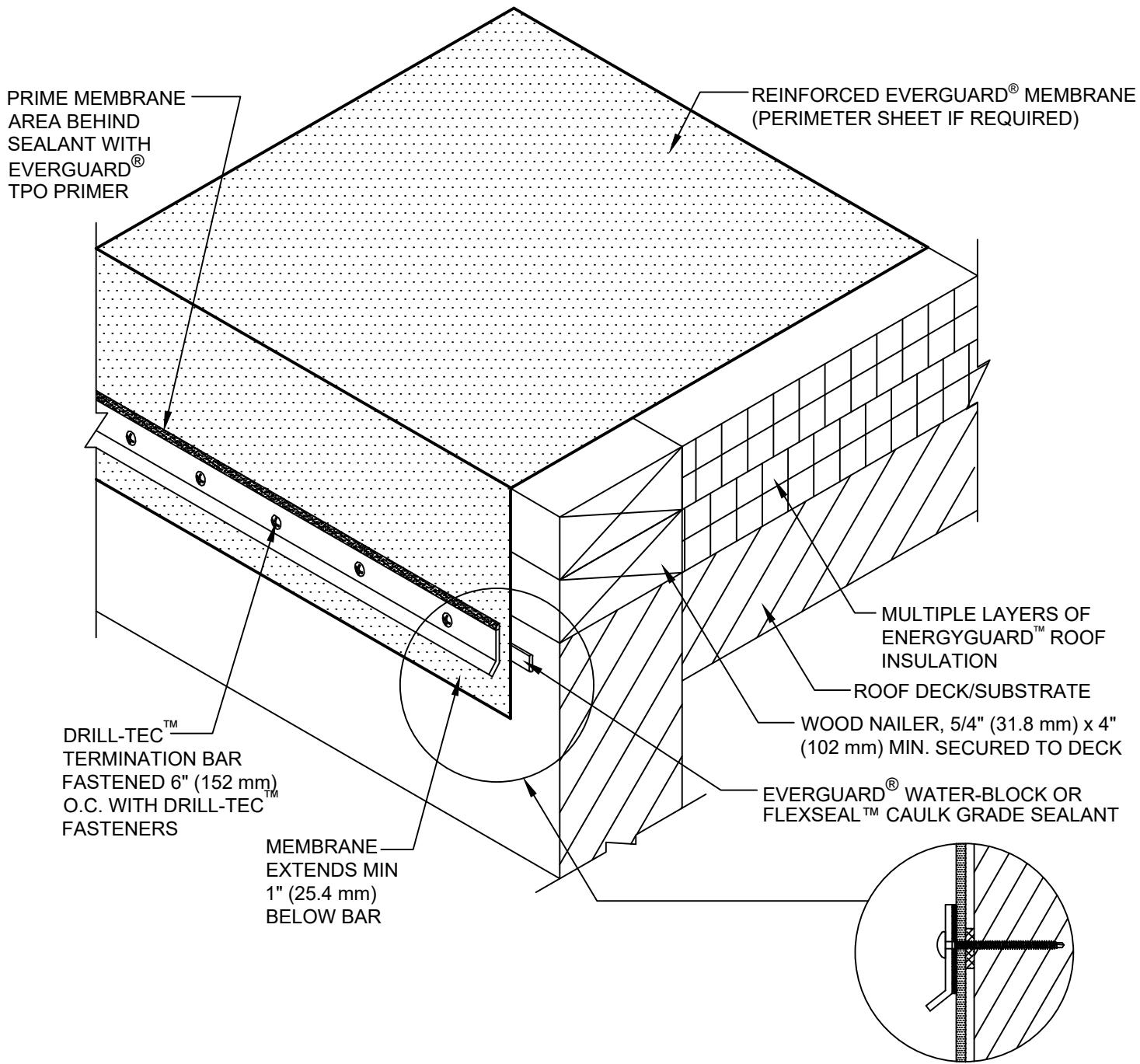
**GAF**

**SNAP-ON FASCIA**

DRAWING #  
**206**

|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

**LEGEND**



## NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A HARD BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. TERMINATION BAR MUST BE FASTENED 6" (152 mm) O.C. FOR THIS DETAIL.

GAF

## MEMBRANE AT ROOF EDGE WITH TERMINATION BAR

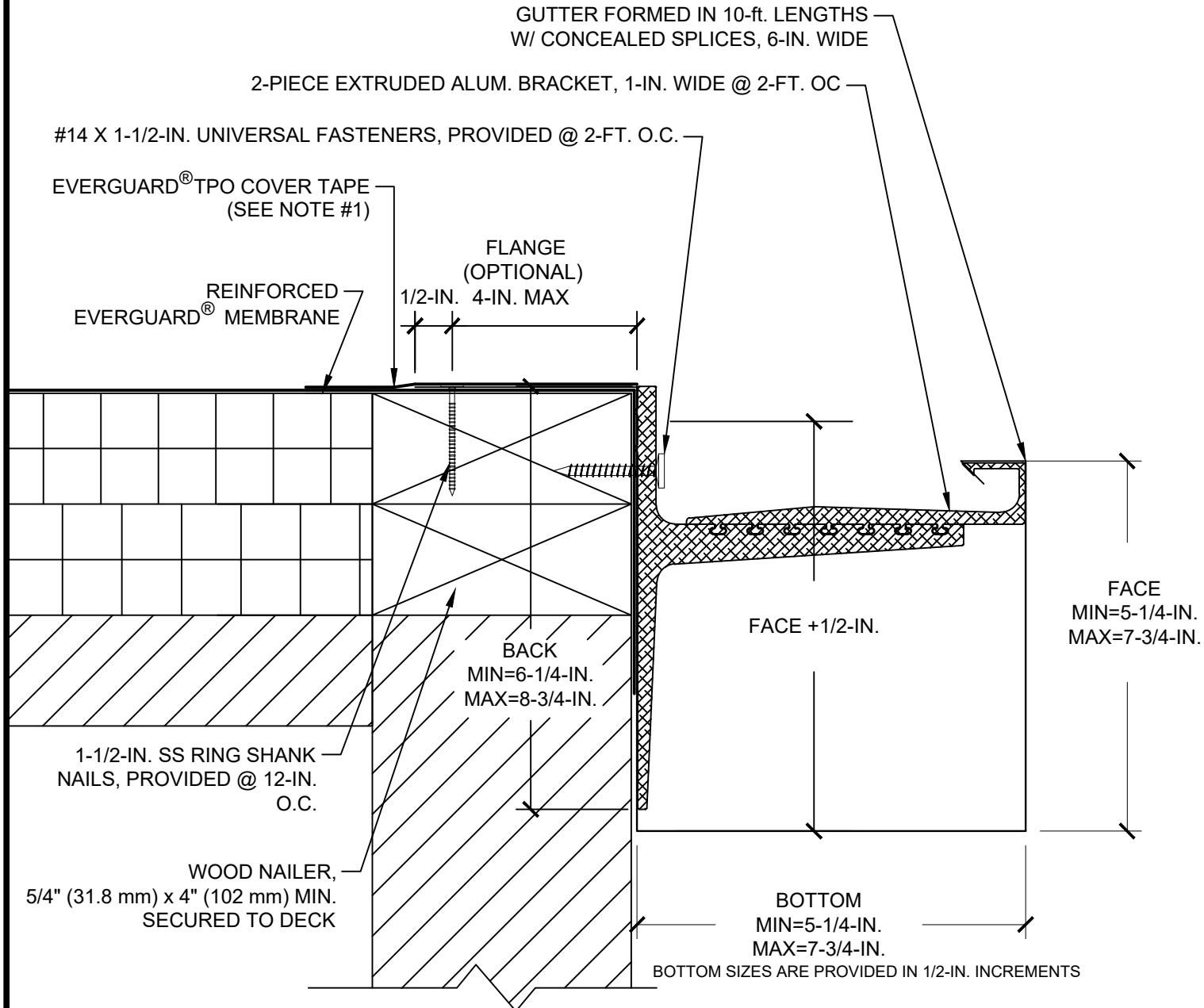
## LEGEND

DRAWING #  
208THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINOROLL SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

FLEXSEAL™ CAULK GRADE SEALANT

# SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 136 PSF(VERTICAL), AND 223 PSF (HORIZONTAL)



**GAF**

## WR BOX GUTTER

DRAWING #  
**210A**

THIS DETAIL APPLIES TO:

ADHERED SYSTEMS  
RHINO BOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE

**8/24/20**

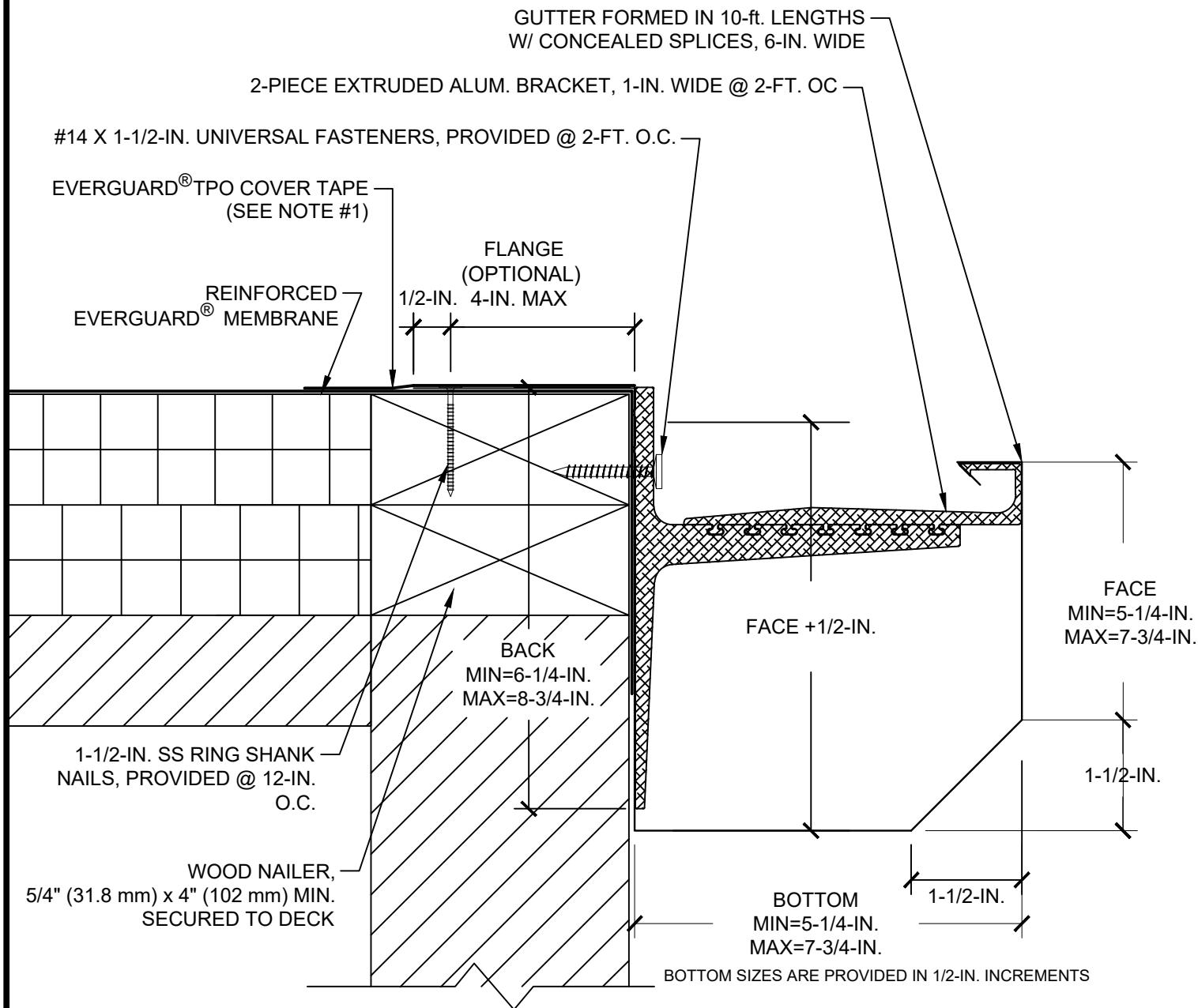
SCALE

**N.T.S.**

### LEGEND

## SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 136 PSF(VERTICAL) , AND 223 PSF (HORIZONTAL)



**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
3. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
4. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.
5. SEE DETAIL 213A OR 218 FOR COVER TAPE APPLICATIONS.

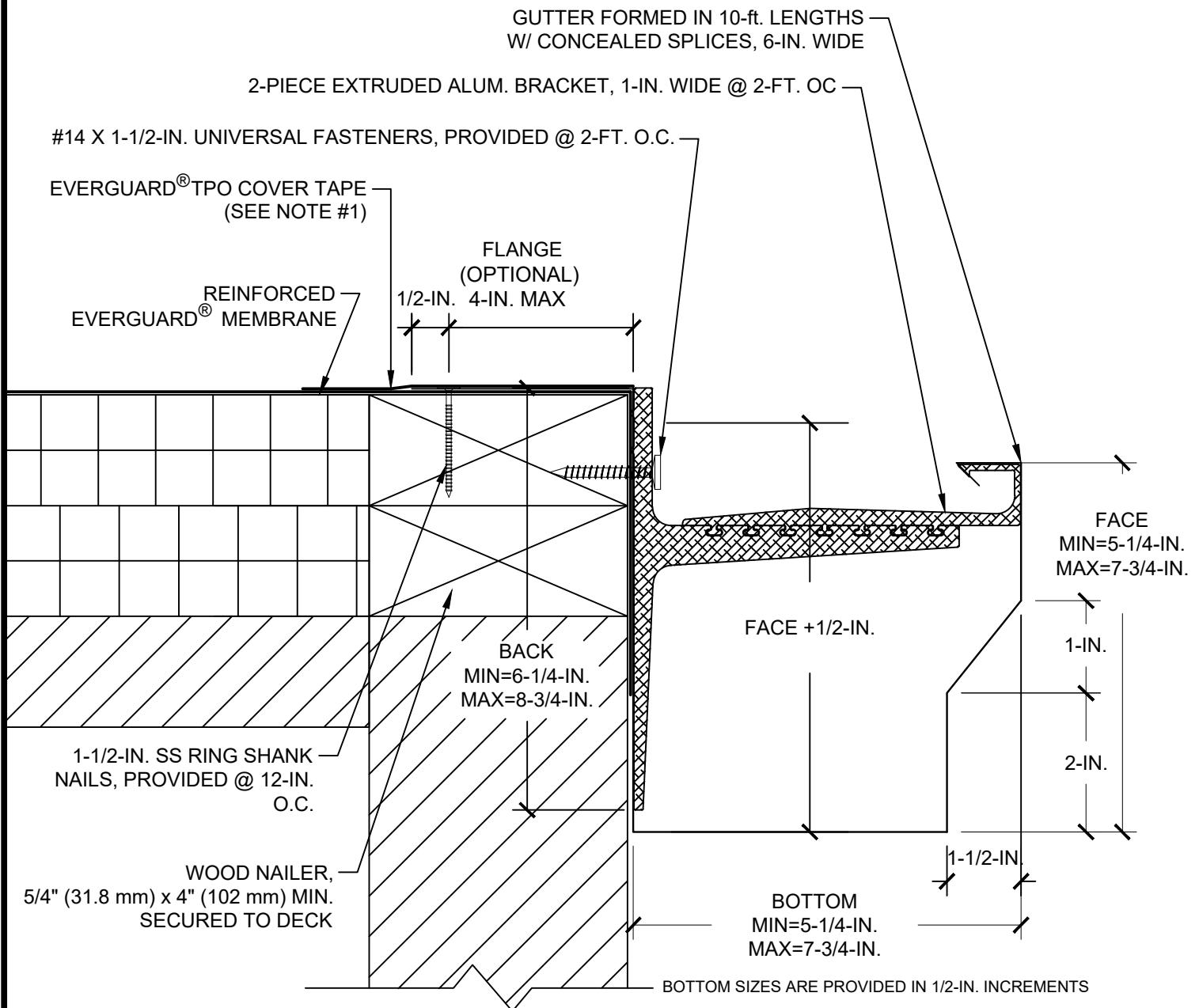
## WR CHAMFER GUTTER

## LEGEND

| DRAWING # |  | THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
|-----------|--|-------------------------|-----------------------|--------|
|           |  | ALL SYSTEMS             | 8/17/20               | N.T.S. |

# SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 136 PSF(VERTICAL), AND 223 PSF (HORIZONTAL)



**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
3. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
4. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.
5. SEE DETAIL 213A OR 218 FOR COVER TAPE APPLICATIONS.

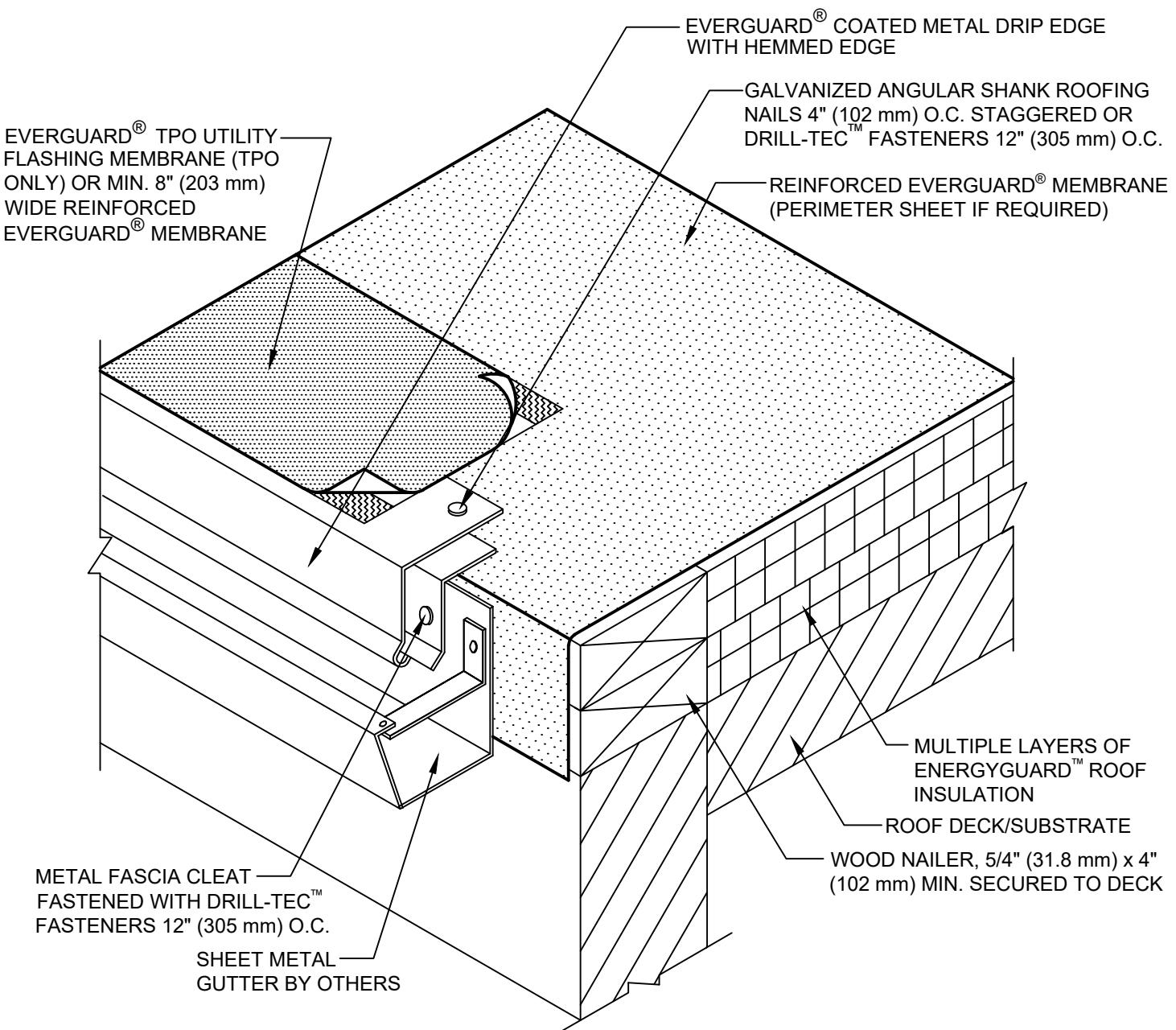
**GAF**

## WR OFFSET GUTTER

DRAWING #  
**210C**

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

## LEGEND



## NOTE:

1. REFER TO EVERGUARD® DETAIL 204 FOR COATED METAL JOINTS.
2. A CONTINUOUS METAL CLEAT IS REQUIRED.
3. 25-YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.
4. FOR HEAT-WELDING LAPS USE 1.5" (38.1 mm) WELD WITH MACHINE AUTOMATIC WELDER AND 2" (50.8 mm) WELD WITH HAND WELDER.

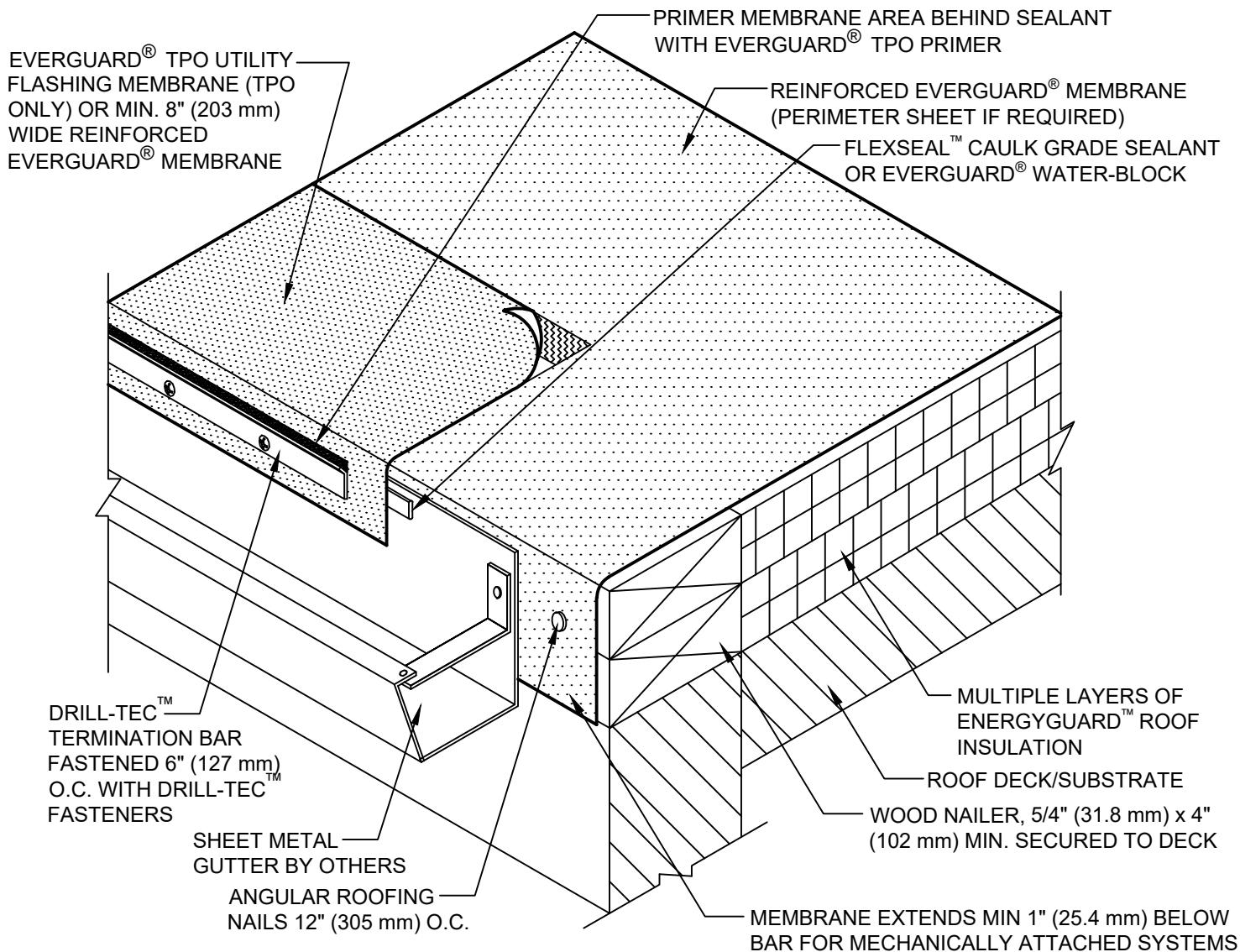
GAF

## GUTTER WITH COATED METAL EDGE DETAIL

## LEGEND

DRAWING #  
211ATHIS DETAIL APPLIES TO:  
ADHESIVE SYSTEMS  
PRE-ADHERED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

HEAT-WELDED LAP



GAF

## GUTTER WITH TERMINATION BAR - NEW INSTALLATION

DRAWING #  
212

### LEGEND

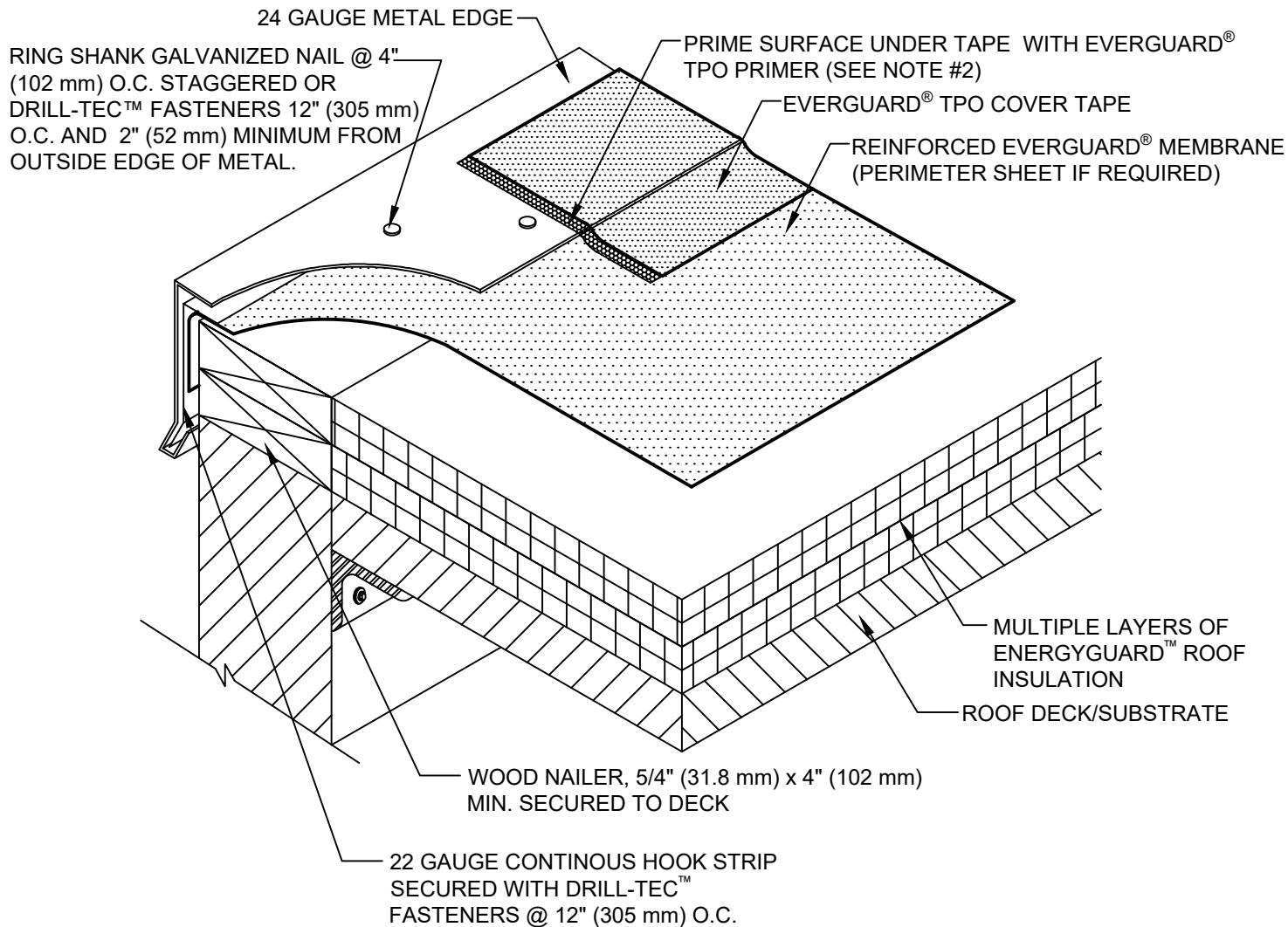
HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT

THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
REINFORCED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE  
8/24/20

SCALE  
N.T.S.



## NOTE:

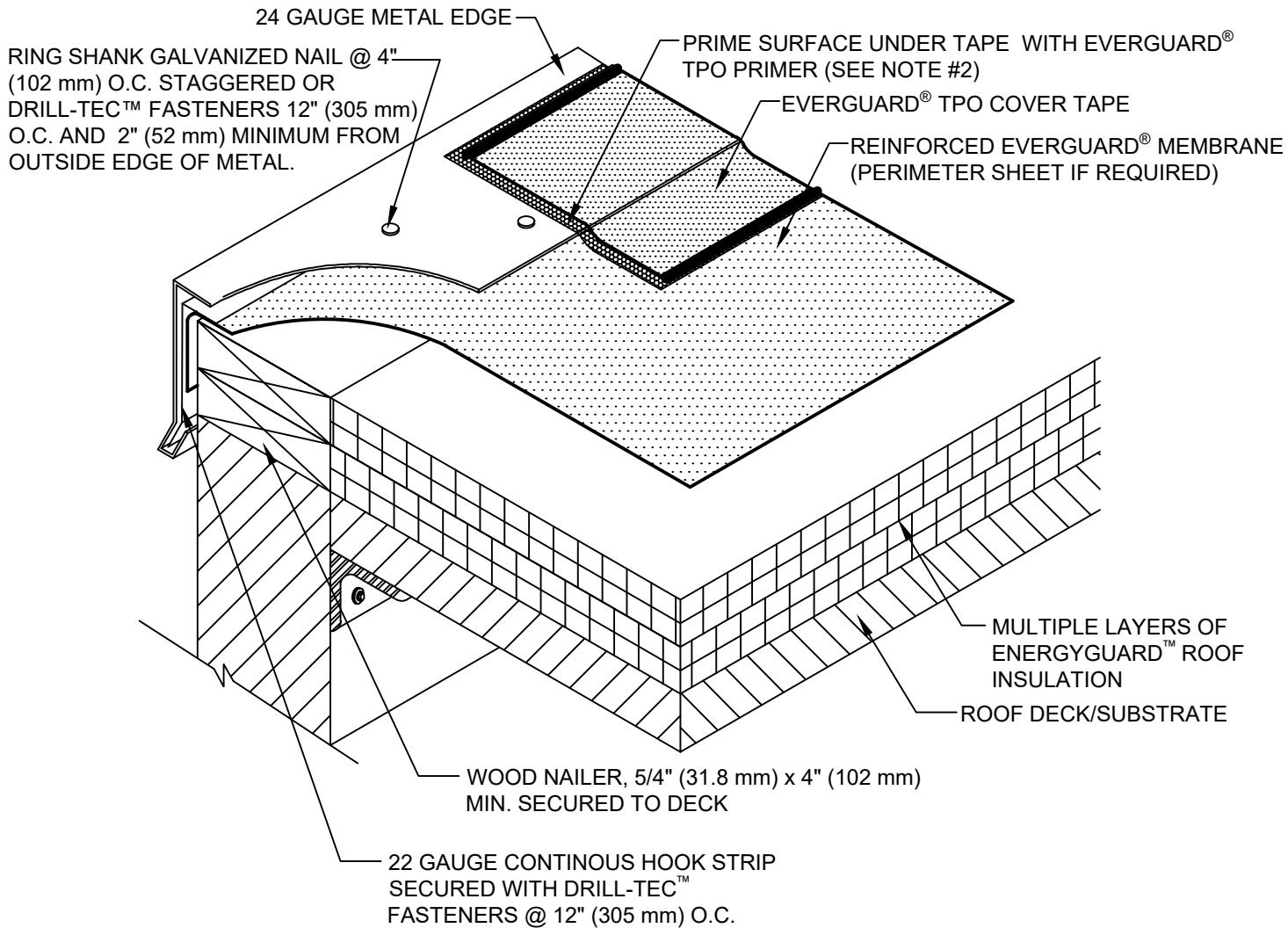
1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. DO NOT OVERLAP ENDS OF FLASHING STRIP/COVER TAPE.

GAF

## COVER TAPE AT ROOF EDGE DETAIL

## LEGEND

DRAWING #  
213ATHIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
REINFORCED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.



**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. FLEXSEAL™ CAULK GRADE SEALANT SHOULD BE FEATHERED OUT AND APPLIED TO BOTH INSIDE AND OUTSIDE EDGES. ENSURE PRIMER EXTENDS UNDER FLEXSEAL™ CAULK GRADE SEALANT.



**COVER TAPE AT ROOF EDGE DETAIL**

**LEGEND**

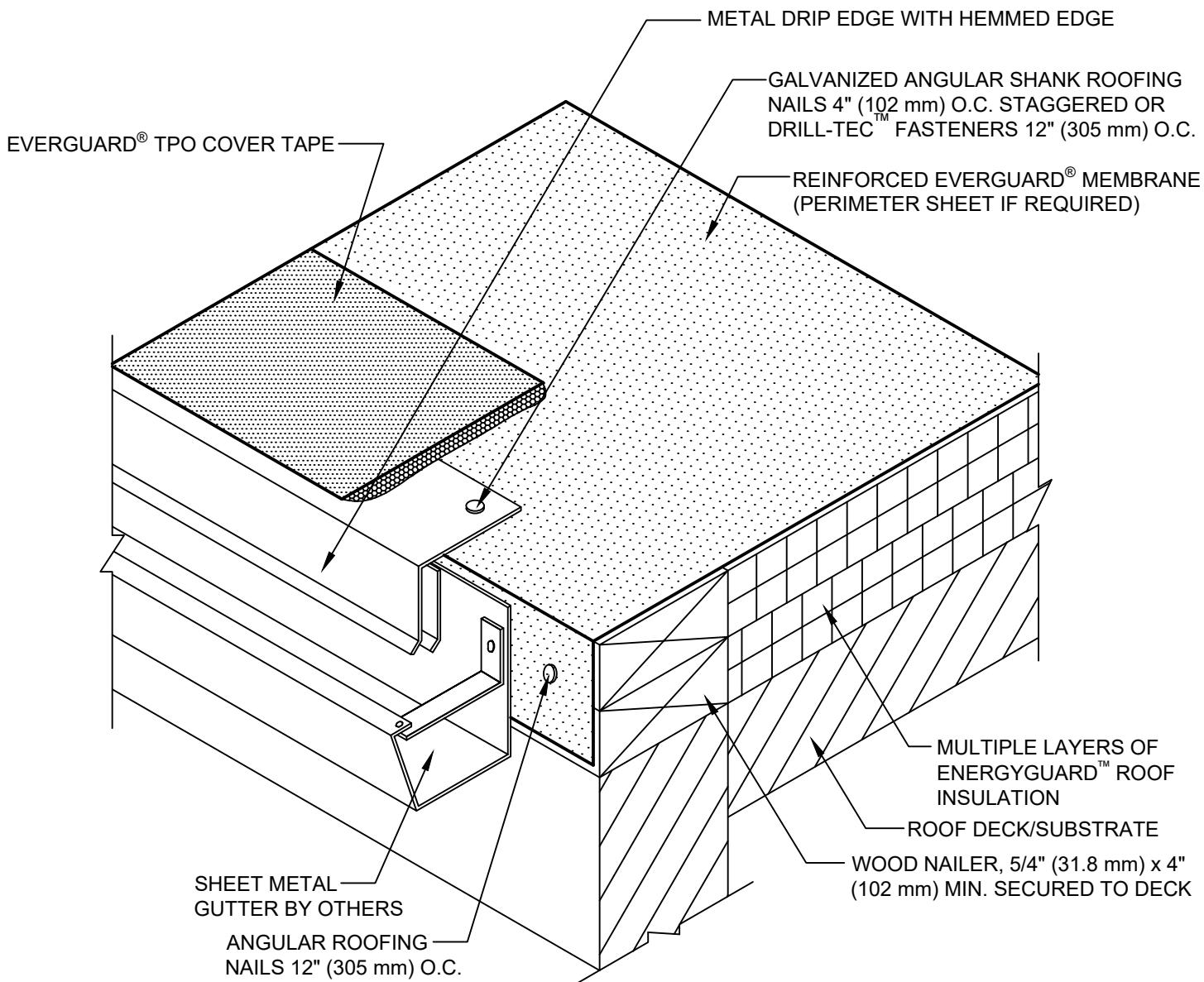
— CONTINUOUS BEAD OF FLEXSEAL™ CAULK GRADE SEALANT (SEE NOTE 4)

DRAWING #  
**213B**

THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINO BOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE  
**8/24/20**

SCALE  
N.T.S.



## NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. DO NOT OVERLAP ENDS OF FLASHING STRIP/COVER TAPE.



## COVER TAPE AT GUTTER EDGE DETAIL

## LEGEND

DRAWING #  
**214A**

THIS DETAIL APPLIES TO:

ADHERED SYSTEMS  
RHINO-BOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

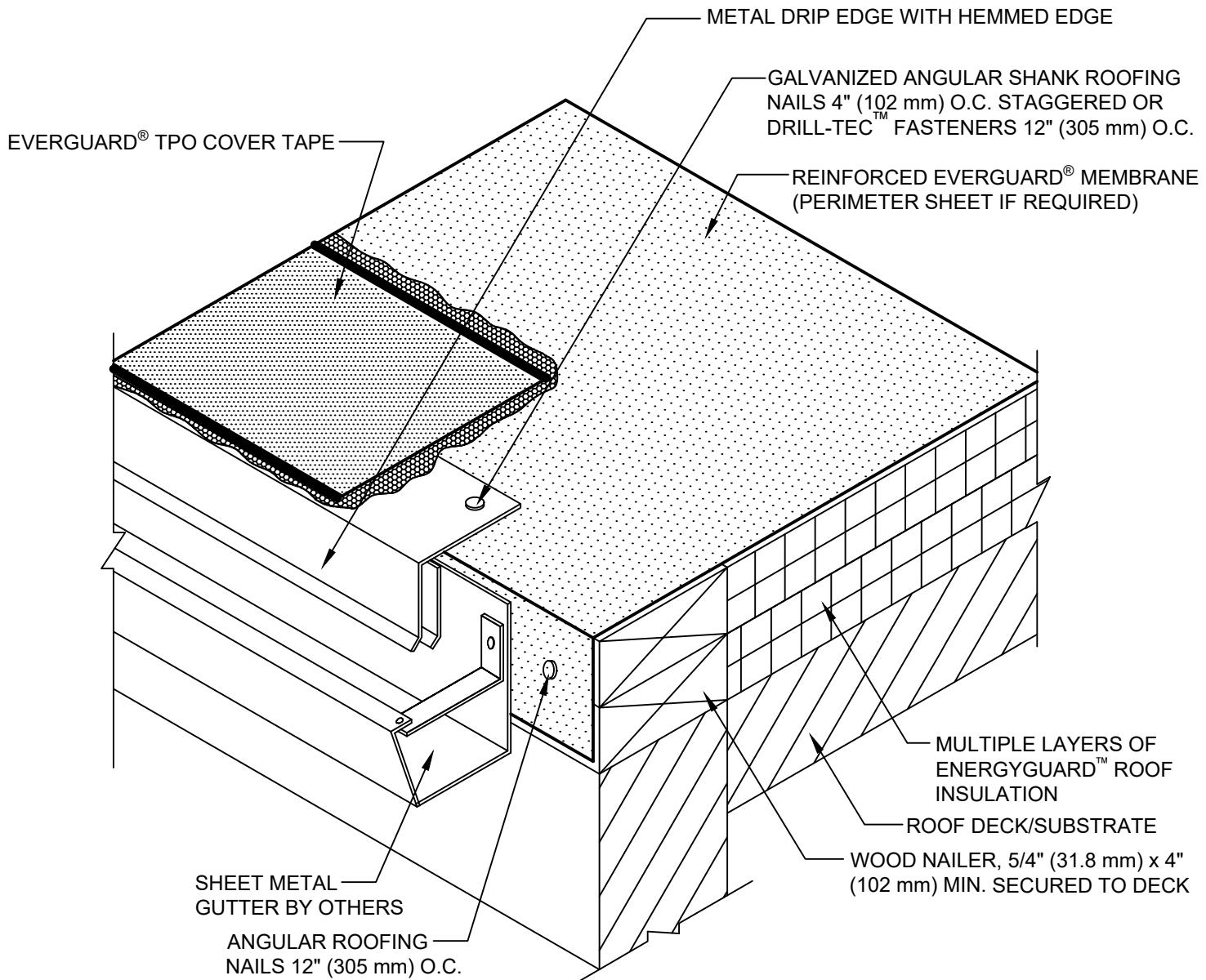
ISSUE / REVISION DATE

8/24/20

SCALE

N.T.S.

EVERGUARD® TPO PRIMER (SEE NOTE #2)



## NOTE:

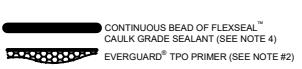
1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. FLEXSEAL™ CAULK GRADE SEALANT SHOULD BE FEATHERED OUT AND APPLIED TO BOTH INSIDE AND OUTSIDE EDGES. ENSURE PRIMER EXTENDS UNDER FLEXSEAL™ CAULK GRADE SEALANT.
5. DO NOT OVERLAP ENDS OF FLASHING STRIP/COVER TAPE.

GAF

## COVER TAPE AT GUTTER EDGE DETAIL

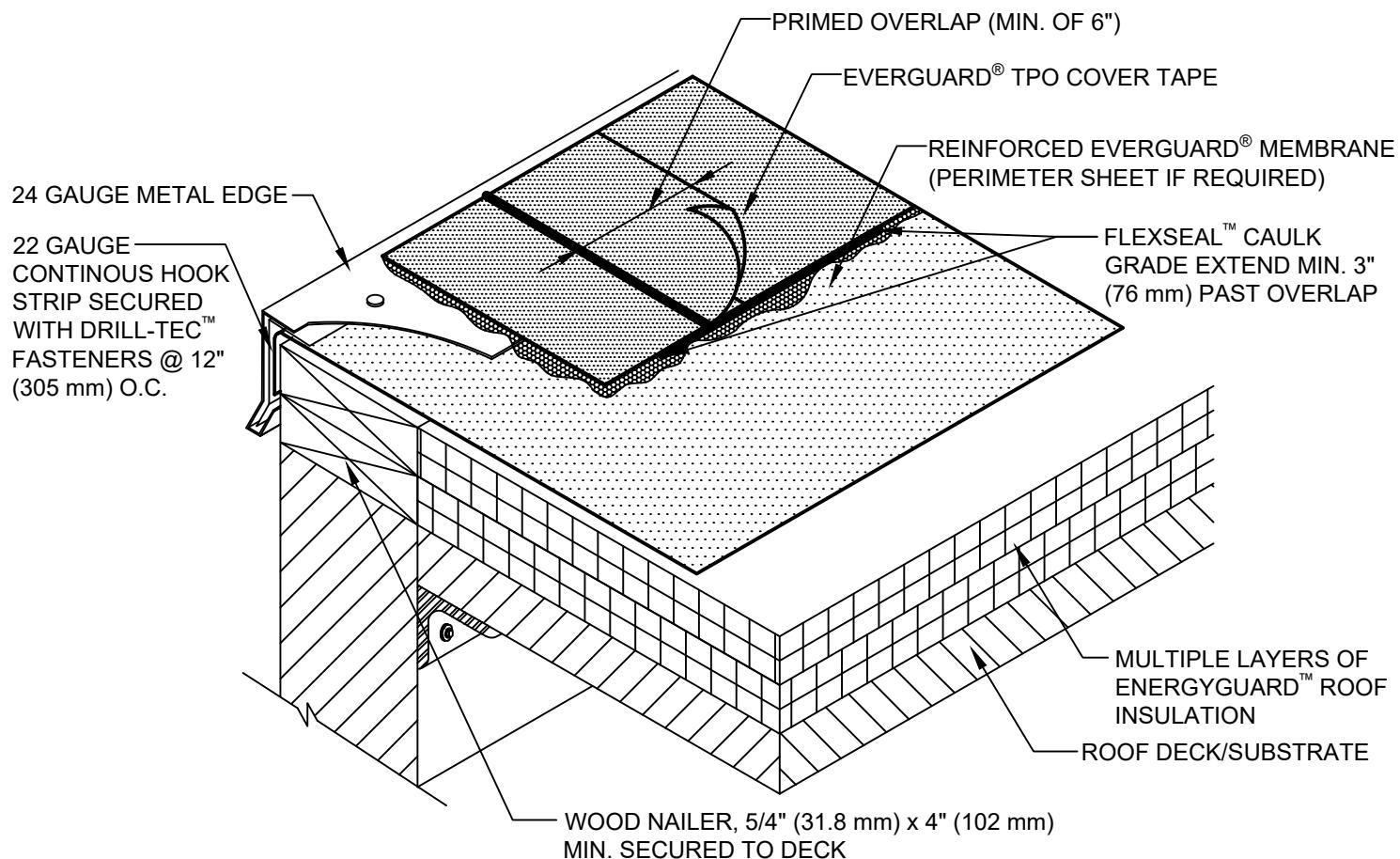
DRAWING #  
214BGAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • [technicalservices@gaf.com](mailto:technicalservices@gaf.com) • 800-766-3411

## LEGEND



8/24/20

N.T.S.



**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.

**GAF**

**COVER TAPE OVERLAP AT ROOF EDGE DETAIL**

DRAWING #  
**215A**

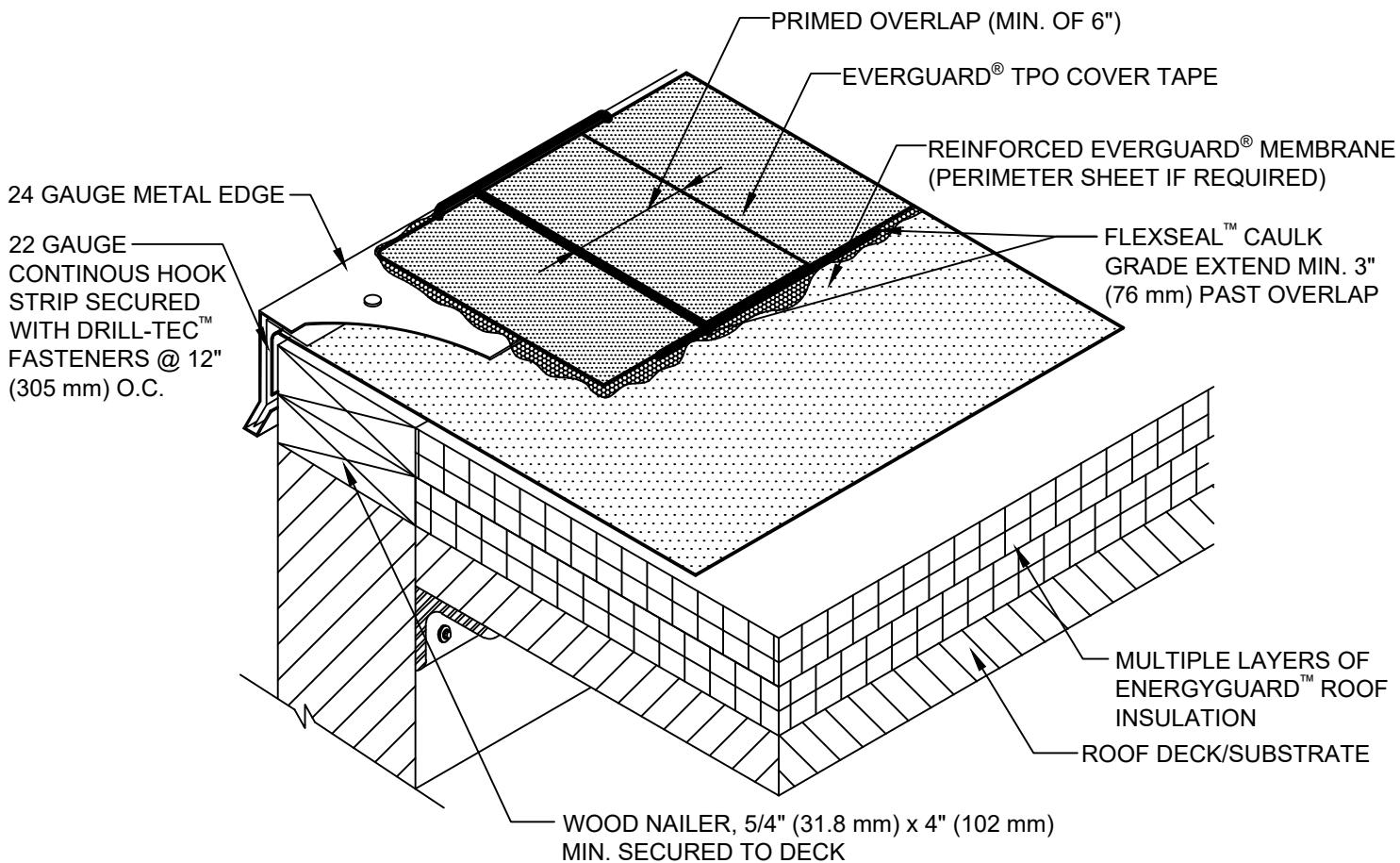
THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RECOBOND® SYSTEMS  
SELF-FLASHING SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE  
**4/5/21**

SCALE  
**N.T.S.**

**LEGEND**

CONTINUOUS BEAD OF FLEXSEAL™  
CAULK GRADE SEALANT  
EVERGUARD® TPO PRIMER (SEE NOTE #2)



**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. FLEXSEAL™ CAULK GRADE SEALANT SHOULD BE FEATHERED OUT AND APPLIED TO BOTH INSIDE AND OUTSIDE EDGES. ENSURE PRIMER EXTENDS UNDER FLEXSEAL™ CAULK GRADE SEALANT.



**COVER TAPE OVERLAP AT ROOF EDGE DETAIL**

DRAWING #  
**215B**

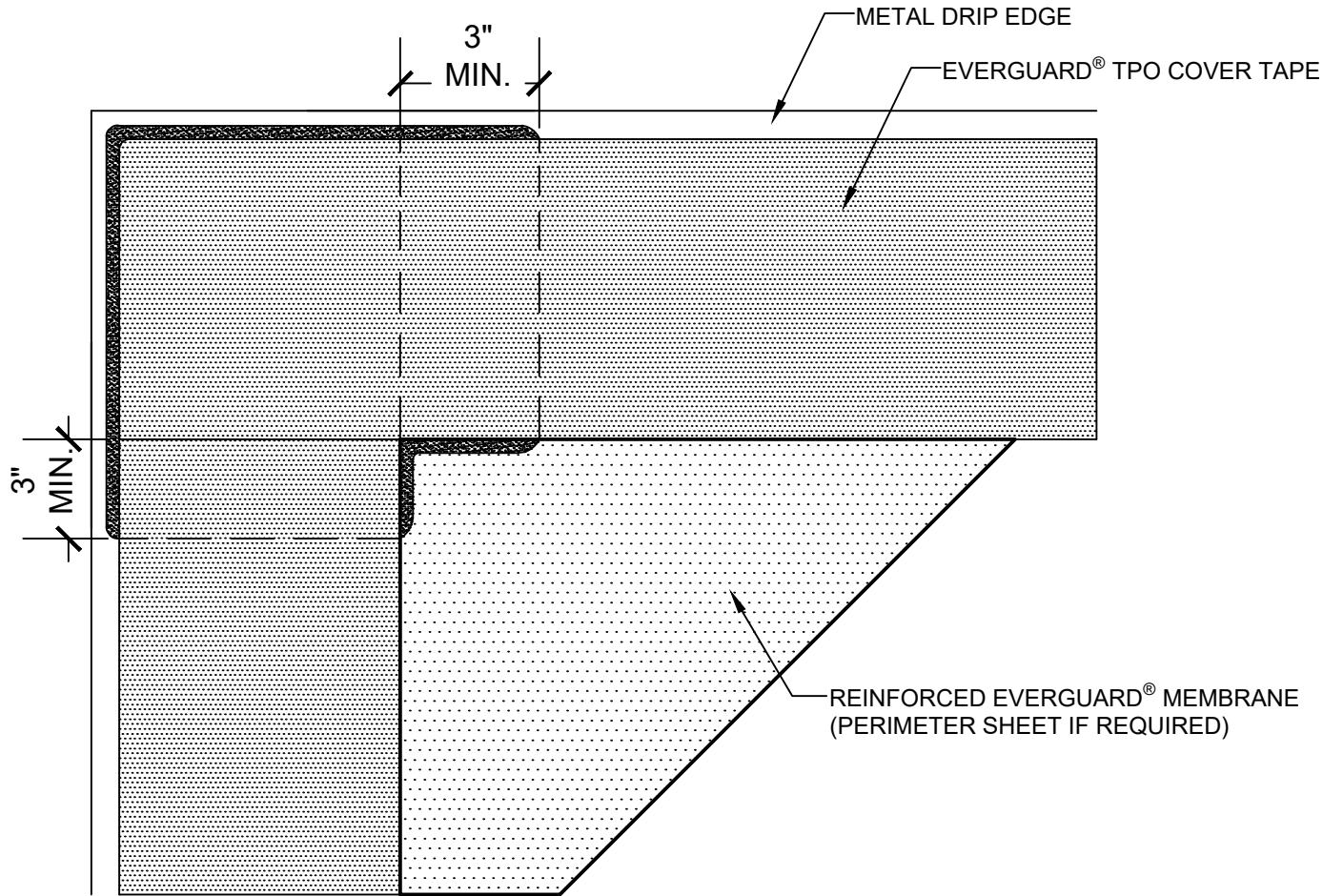
THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RIBBONBOND® SYSTEMS  
SELF-FLASHING SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE  
**4/5/21**

SCALE  
**N.T.S.**

**LEGEND**

CONTINUOUS BEAD OF FLEXSEAL™  
CAULK GRADE SEALANT (SEE NOTE #4)  
EVERGUARD® TPO PRIMER (SEE NOTE #2)



## NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.

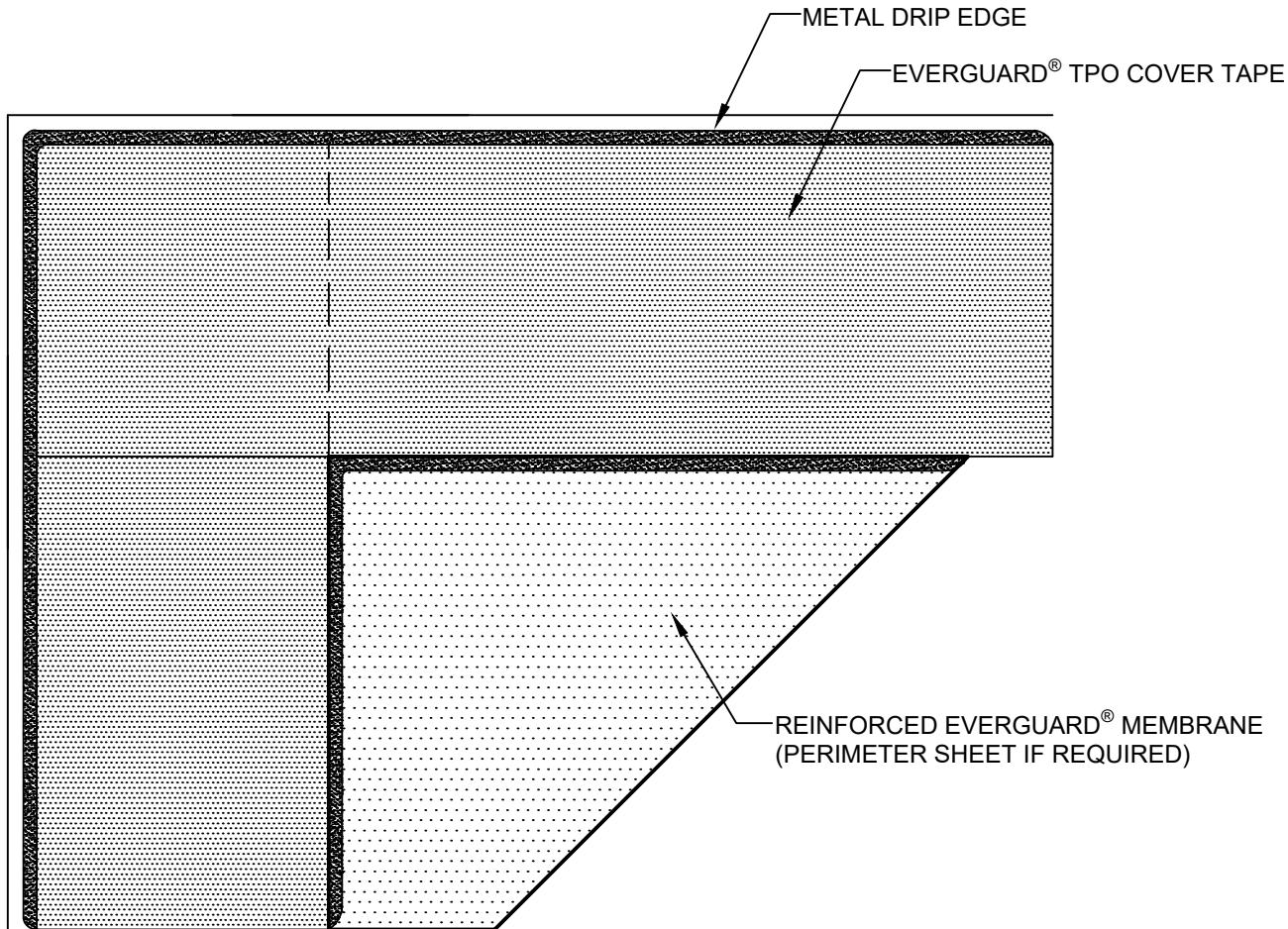
GAF

## COVER TAPE AT ROOF EDGE CORNER DETAIL

DRAWING #  
216ATHIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINO BOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

 FLEXSEAL™ CAULK GRADE EXTEND MIN.  
3" (76 mm) PAST OVERLAP



## NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. THIS DETAIL IS **NOT** TO BE USED ON SLOPES GREATER THAN 1:12. FOR SLOPES GREATER THAN 1:12, REFER TO EVERGUARD® DETAIL 218 OR 219.
4. FLEXSEAL™ CAULK GRADE SEALANT SHOULD BE FEATHERED OUT AND APPLIED TO BOTH INSIDE AND OUTSIDE EDGES. ENSURE PRIMER EXTENDS UNDER FLEXSEAL™ CAULK GRADE SEALANT.

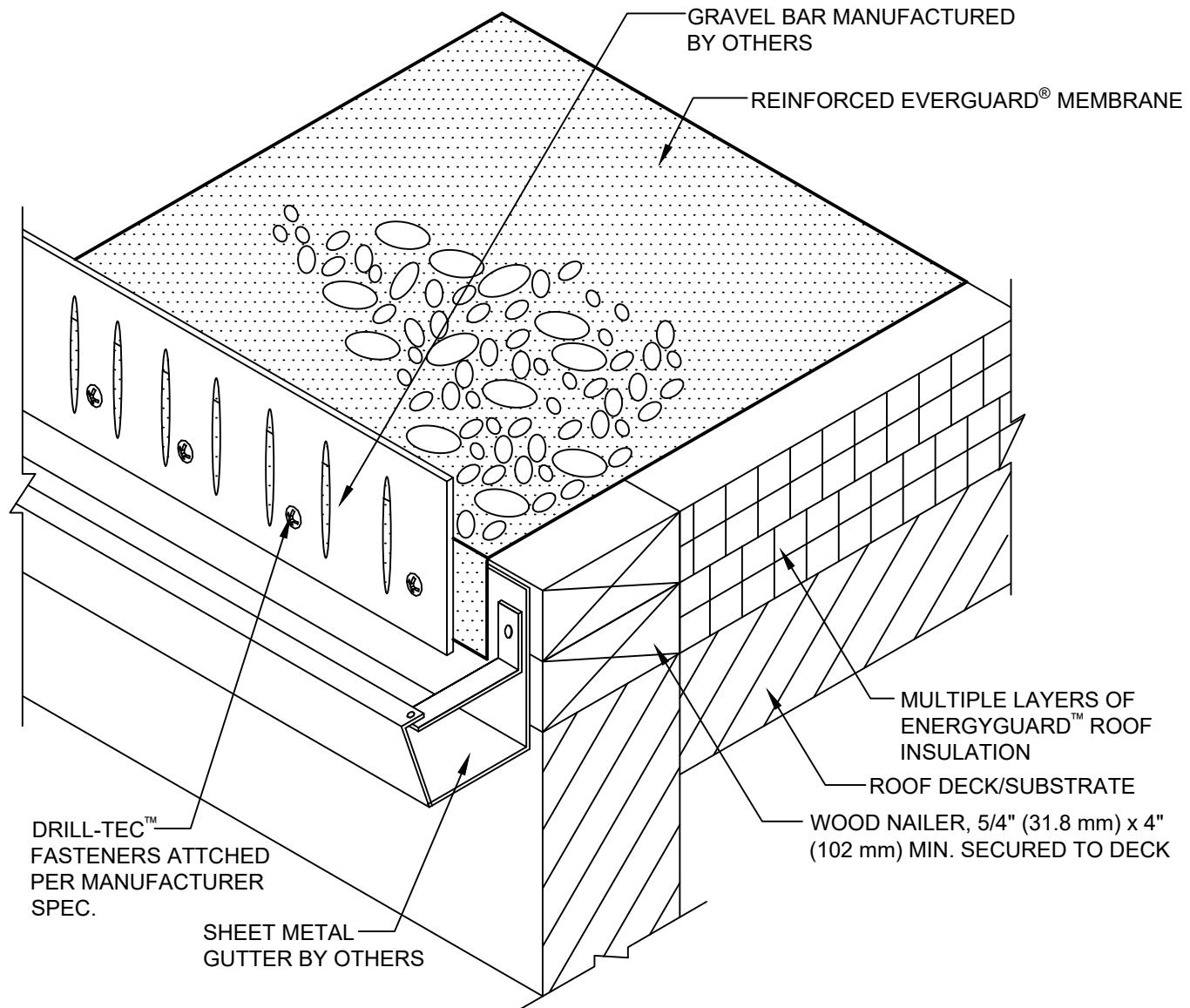
GAF

## COVER TAPE AT ROOF EDGE CORNER DETAIL

DRAWING #  
216BTHIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINO BOND® SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

 FLEXSEAL™ CAULK GRADE EXTEND MIN. 3" (76 mm) PAST OVERLAP (SEE NOTE #4)



**NOTE:**

1. ADD BALLAST PER SPECIFICATION FOR BALLASTED SYSTEMS.
2. GUTTER IS OPTIONAL..

**GAF**

**METAL EDGE DETAIL**

DRAWING #  
**217**

THIS DETAIL APPLIES TO:

BALLASTED SYSTEMS

ISSUE / REVISION DATE

**8/17/20**

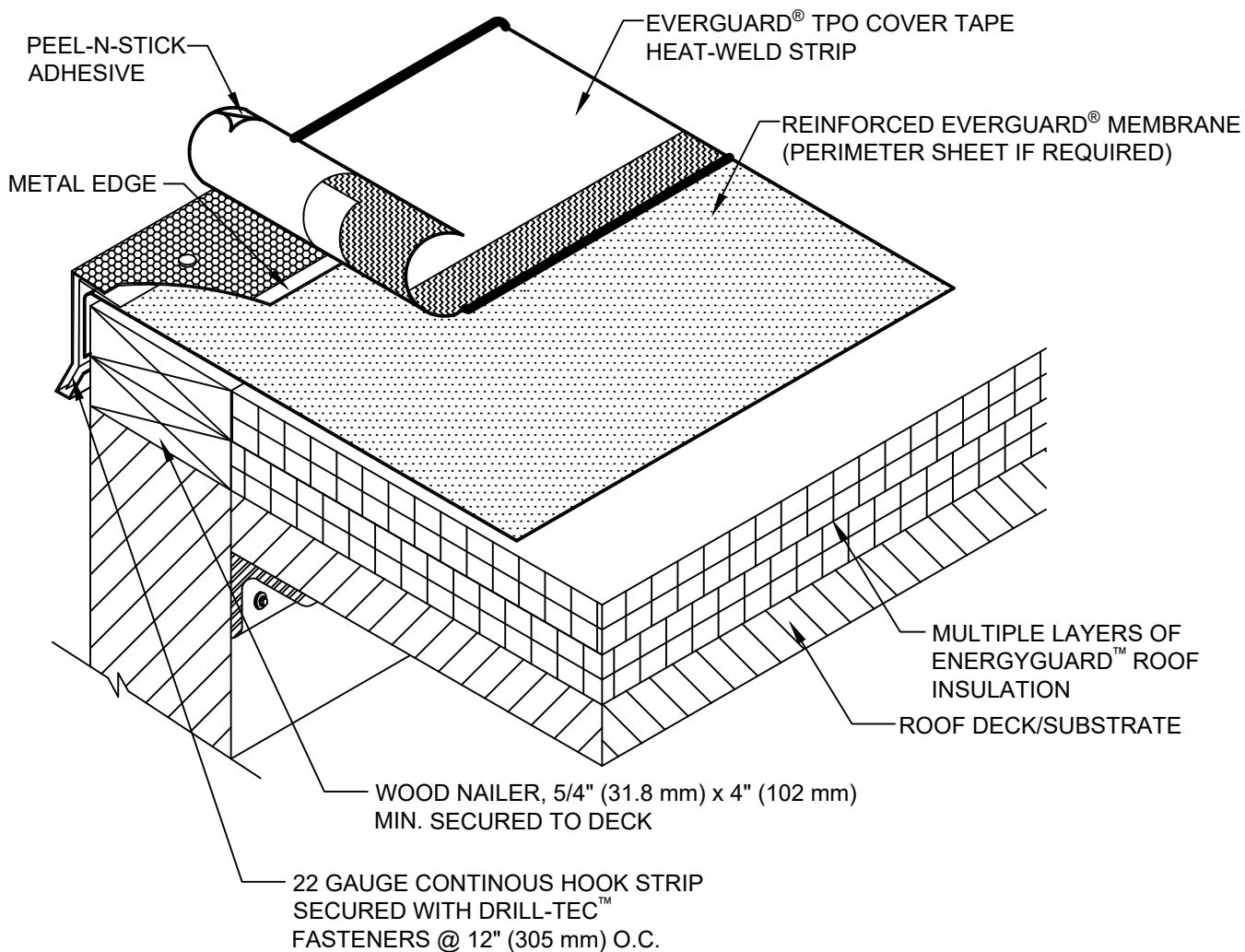
SCALE

N.T.S.

**LEGEND**



STONE/PAVER BALLAST



## NOTE:

1. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY.
2. ONCE DRY, PRIME METAL **ONLY** WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE. (DO NOT SPILL PRIMER ON WELDED SEAM AREA)
3. PRIME THE METAL ONLY WITH EVERGUARD® TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA.
4. HEAT-WELD THE MEMBRANE (NON-ADHESIVE SIDE ONLY) TO MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.

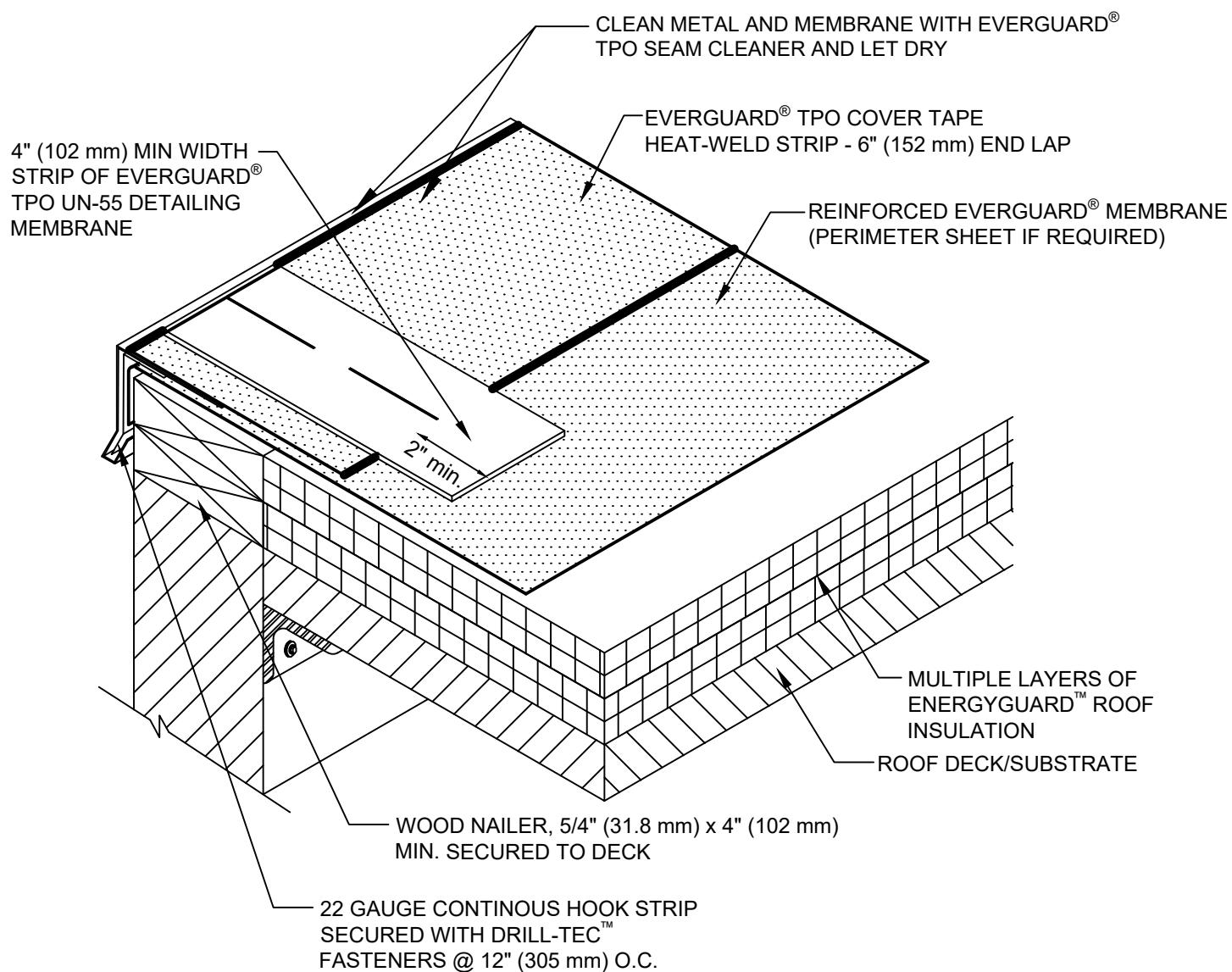
GAF

## TPO COVER TAPE HEAT-WELD STRIP OVERLAP AT ROOF EDGE DETAIL

DRAWING #  
218THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINOBOND™ SYSTEMS  
SELF-SEAL SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

|                                          |
|------------------------------------------|
| CONTINUOUS BEAD OF FLEXSEAL™             |
| CAULK GRADE SEALANT                      |
| EVERGUARD® TPO PRIMER (SEE NOTE #1 & #2) |
| HEAT-WELDED                              |



## NOTE:

1. PRIME THE METAL ONLY WITH EVERGUARD® TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA.
2. HEAT WELD THE END JOINT COVER STRIP OF DETAILING MEMBRANE TO THE MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.
3. REFER TO DETAIL 218 FOR EVERGUARD® COVER TAPE HEATWELD ROOF EDGE INSTALLATION.
4. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.

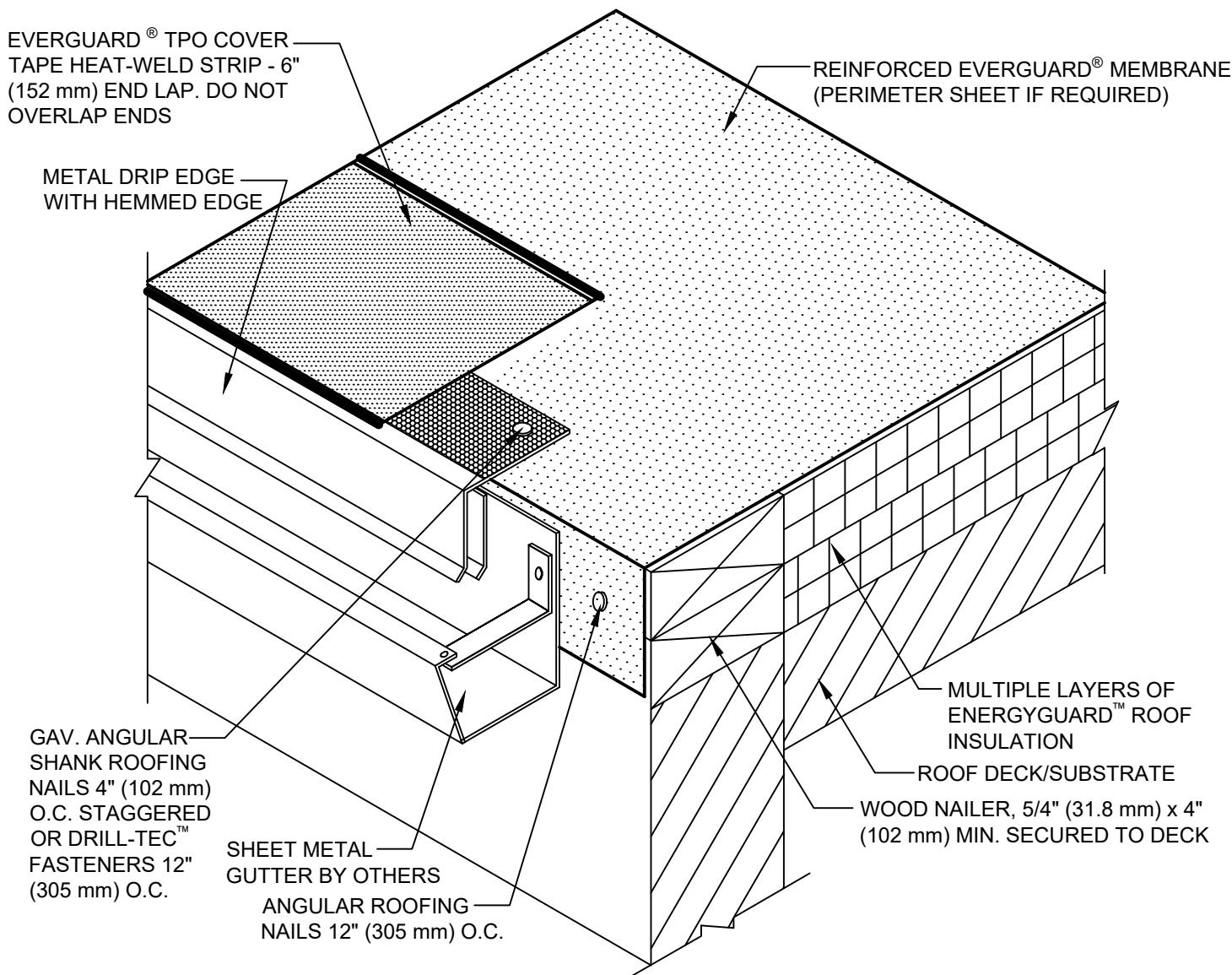
GAF

## COVER TAPE HEATWELD STRIP END JOINT AT ROOF EDGE DETAIL

DRAWING #  
219THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
RHINOBOND™ SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

CONTINUOUS BEAD OF FLEXSEAL™  
CAULK GRADE SEALANT



## NOTE:

1. PRIME THE METAL ONLY WITH EVERGUARD® TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA.
2. HEAT WELD THE END JOINT COVER STRIP OF DETAILING MEMBRANE TO THE MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.
3. HEAT WELD THE MEMBRANE (NON-ADHESIVE SIDE ONLY) TO MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.
4. REFER TO DETAIL 218 FOR EVERGUARD® COVER TAPE HEAT-WELD ROOF EDGE INSTALLATION.

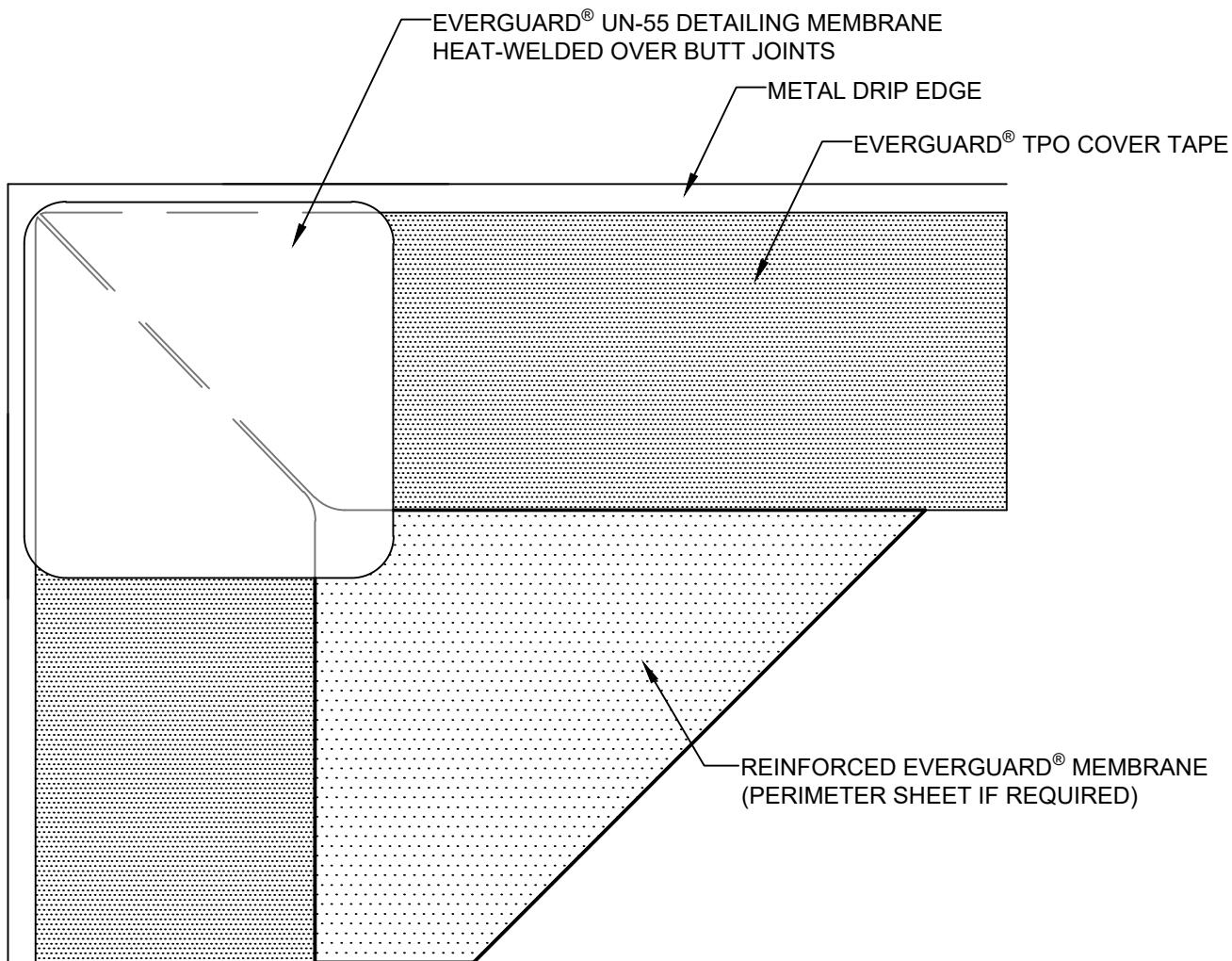
GAF

## COVER TAPE HEAT-WELD STRIP AT GUTTER EDGE DETAIL

## LEGEND

|  |                                          |
|--|------------------------------------------|
|  | EVERGUARD® TPO PRIMER (SEE NOTE #1 & #2) |
|  | FLEXSEAL™ CAULK-GRADE SEALANT            |

DRAWING #  
220THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
REINFORCED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.



## NOTE:

1. PRIME THE METAL ONLY WITH EVERGUARD® TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA.
2. HEAT WELD THE MEMBRANE (NON-ADHESIVE SIDE ONLY) TO MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.
3. REFER TO DETAIL 218 FOR EVERGUARD® COVER TAPE HEAT-WELD ROOF EDGE INSTALLATION.
4. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY.

GAF

COVER TAPE HEAT-WELD AT METAL DRIP EDGE  
CORNER DETAIL

LEGEND

DRAWING #  
221THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS  
REINFORCED SYSTEMS  
SELF-ADHERED SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

# SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 381 PSF (HORIZONTAL)

| METAL TYPE      | MAXIMUM FRONT FACE HEIGHT<br>(in.) | PERIMETER PRESSURE<br>(psf) |          | CORNER PRESSURE<br>(psf) |          |
|-----------------|------------------------------------|-----------------------------|----------|--------------------------|----------|
|                 |                                    | HORIZONTAL                  | VERTICAL | HORIZONTAL               | VERTICAL |
| 0.040" ALUMINUM | 5.25                               | 320                         | N/A      | 325                      | N/A      |
| 0.040" ALUMINUM | 6                                  | 204                         | N/A      | 200                      | N/A      |
| 0.040" ALUMINUM | 10                                 | 102                         | N/A      | 109                      | N/A      |
| 24 GA. STEEL    | 5.25                               | 378                         | N/A      | 379                      | N/A      |
| 24 GA. STEEL    | 6                                  | 247                         | N/A      | 236                      | N/A      |
| 24 GA. STEEL    | 10                                 | 131                         | N/A      | 127                      | N/A      |
| 0.039" ZINC     | 6                                  | 189                         | N/A      | 182                      | N/A      |
| 0.039" ZINC     | 10                                 | 131                         | N/A      | 127                      | N/A      |

EVERGUARD® EZ FASCIA LT  
FORMED IN 10'-0" (3.05 m) LENGTHS

20GA RETAINER  
FORMED IN 10'-0" LENGTHS

FLEXSEAL™ CAULK GRADE SEALANT

WOOD NAILERS, 5/4" (31.8 mm) x 4" (102 mm) MIN.  
SECURED TO DECK

REINFORCED EVERGUARD® MEMBRANE

MULTIPLE LAYERS OF  
ENERGYGUARD™ ROOF INSULATION

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR ALL FACE SIZES

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR FACE SIZES  $\geq$  6 IN. BUT  $\leq$  10-IN.

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR FACE SIZES  $>$  10 IN.

2-1/4-IN.

3/4-IN.

3/4-IN.

FACE  
MIN=3-3/4-IN.  
MAX=12-3/4-IN.

3-IN.

1-3/4-IN.

CONCEALED  
JOINT SPLICING, 4"  
(102 mm) WIDE

## NOTE:

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

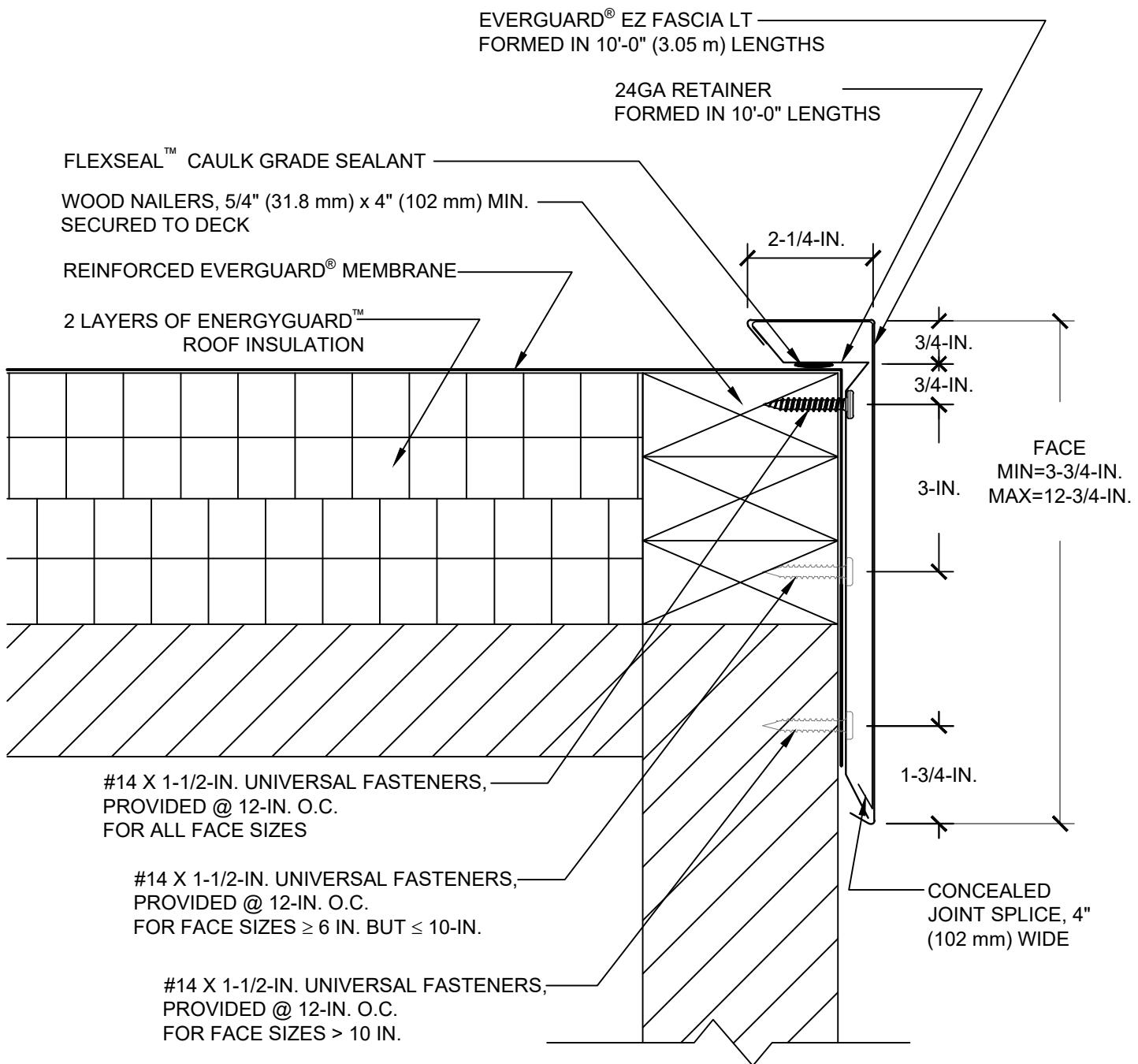


EZ FASCIA

DRAWING #  
232A

|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

LEGEND



## NOTE:

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

GAF

EZ FASCIA LT

DRAWING #  
232B

LEGEND

## SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 286 PSF (HORIZONTAL)

| METAL TYPE      | MAXIMUM FRONT FACE HEIGHT<br>(in.) | PERIMETER PRESSURE<br>(psf) |          | CORNER PRESSURE<br>(psf) |          |
|-----------------|------------------------------------|-----------------------------|----------|--------------------------|----------|
|                 |                                    | HORIZONTAL                  | VERTICAL | HORIZONTAL               | VERTICAL |
| 0.040" ALUMINUM | 6                                  | 218                         | N/A      | 218                      | N/A      |
| 0.040" ALUMINUM | 6.75                               | 204                         | N/A      | 200                      | N/A      |
| 0.040" ALUMINUM | 8.25                               | 116                         | N/A      | 109                      | N/A      |
| 24 GA. STEEL    | 5.25                               | 276                         | N/A      | 271                      | N/A      |
| 24 GA. STEEL    | 6                                  | 218                         | N/A      | 218                      | N/A      |
| 24 GA. STEEL    | 8.25                               | 160                         | N/A      | 163                      | N/A      |
| 0.039" ZINC     | 6                                  | 189                         | N/A      | 200                      | N/A      |

EVERGUARD® EZ FASCIA LT  
FORMED IN 10'-0" (3.05 m) LENGTHS

0.050 ALUM. RETAINER  
FORMED IN 10'-0" LENGTHS

FLEXSEAL™ CAULK GRADE SEALANT

WOOD NAILERS, 5/4" (31.8 mm) x 4" (102 mm) MIN.  
SECURED TO DECK

REINFORCED EVERGUARD® MEMBRANE

2 LAYERS OF ENERGYGUARD™  
ROOF INSULATION

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR ALL FACE SIZES

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR FACE SIZES  $\geq$  6 IN. BUT  $\leq$  10-IN.

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR FACE SIZES  $>$  10 IN.

2-1/4-IN.

3/4-IN.

3/4-IN.

3-IN.

FACE  
MIN=3-3/4-IN.  
MAX=12-3/4-IN.

1-3/4-IN.

CONCEALED  
JOINT SPLICING, 4"  
(102 mm) WIDE

**NOTE:**

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.



EZ FASCIA AR

DRAWING #  
232C

LEGEND

## SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 260 PSF (HORIZONTAL)

| METAL TYPE      | MAXIMUM FRONT FACE HEIGHT<br>(in.) | PERIMETER PRESSURE<br>(psf) |          | CORNER PRESSURE<br>(psf) |          |
|-----------------|------------------------------------|-----------------------------|----------|--------------------------|----------|
|                 |                                    | HORIZONTAL                  | VERTICAL | HORIZONTAL               | VERTICAL |
| 0.040" ALUMINUM | 6.75                               | 204                         | N/A      | 200                      | N/A      |
| 0.040" ALUMINUM | 8.25                               | 146                         | N/A      | 145                      | N/A      |
| 0.040" ALUMINUM | 11.25                              | 73                          | N/A      | 73                       | N/A      |
| 0.050" ALUMINUM | 11.25                              | 116                         | N/A      | 127                      | N/A      |
| 24 GA. STEEL    | 6.75                               | 247                         | N/A      | 253                      | N/A      |
| 24 GA. STEEL    | 8.25                               | 160                         | N/A      | 163                      | N/A      |
| 24 GA. STEEL    | 11.25                              | 87                          | N/A      | 91                       | N/A      |

EVERGUARD® EZ FASCIA EX  
FORMED IN 10'-0" (3.05 m) LENGTHS

EXTRUDED ALUM. RETAINER  
IN 10-ft. LENGTHS

FLEXSEAL™ CAULK GRADE SEALANT

RETAINER SPLICE W/ GASKET, 6-in. WIDE

REINFORCED EVERGUARD® MEMBRANE

2 LAYERS OF ENERGYGUARD™  
ROOF INSULATION

#14 X 1-1/2-IN. UNIVERSAL FASTENERS,  
PROVIDED @ 12-IN. O.C. FOR ALL FACE SIZES

WOOD NAILERS,  
5/4" (31.8 mm) x 4" (102 mm) MIN.  
SECURED TO DECK

1-IN. FACE  
MIN=3-3/4-IN.  
MAX=11-1/4-IN.

CONCEALED  
JOINT SPLICE, 4"  
(102 mm) WIDE

**NOTE:**

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

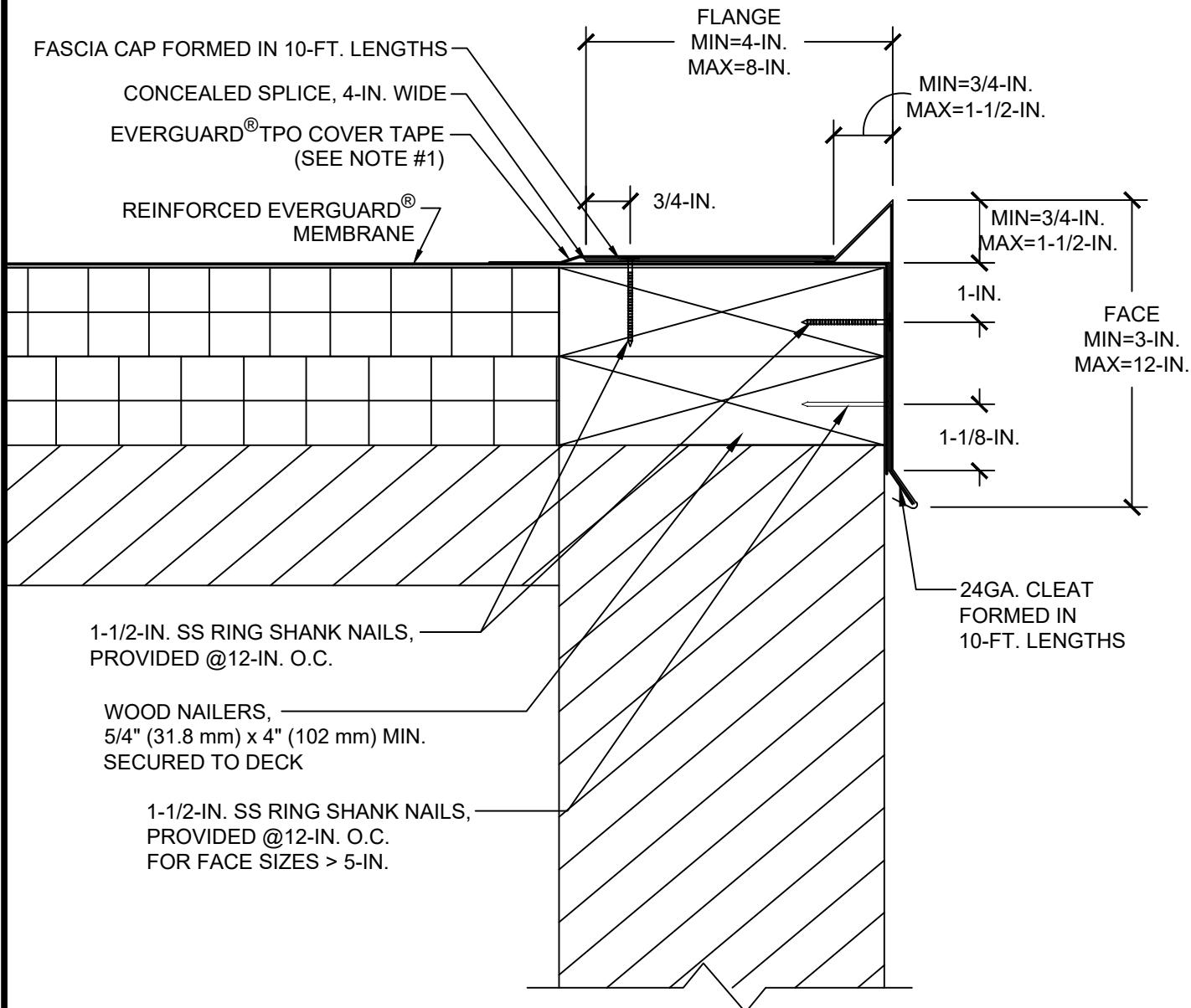


EZ FASCIA EX

DRAWING #  
**232D**

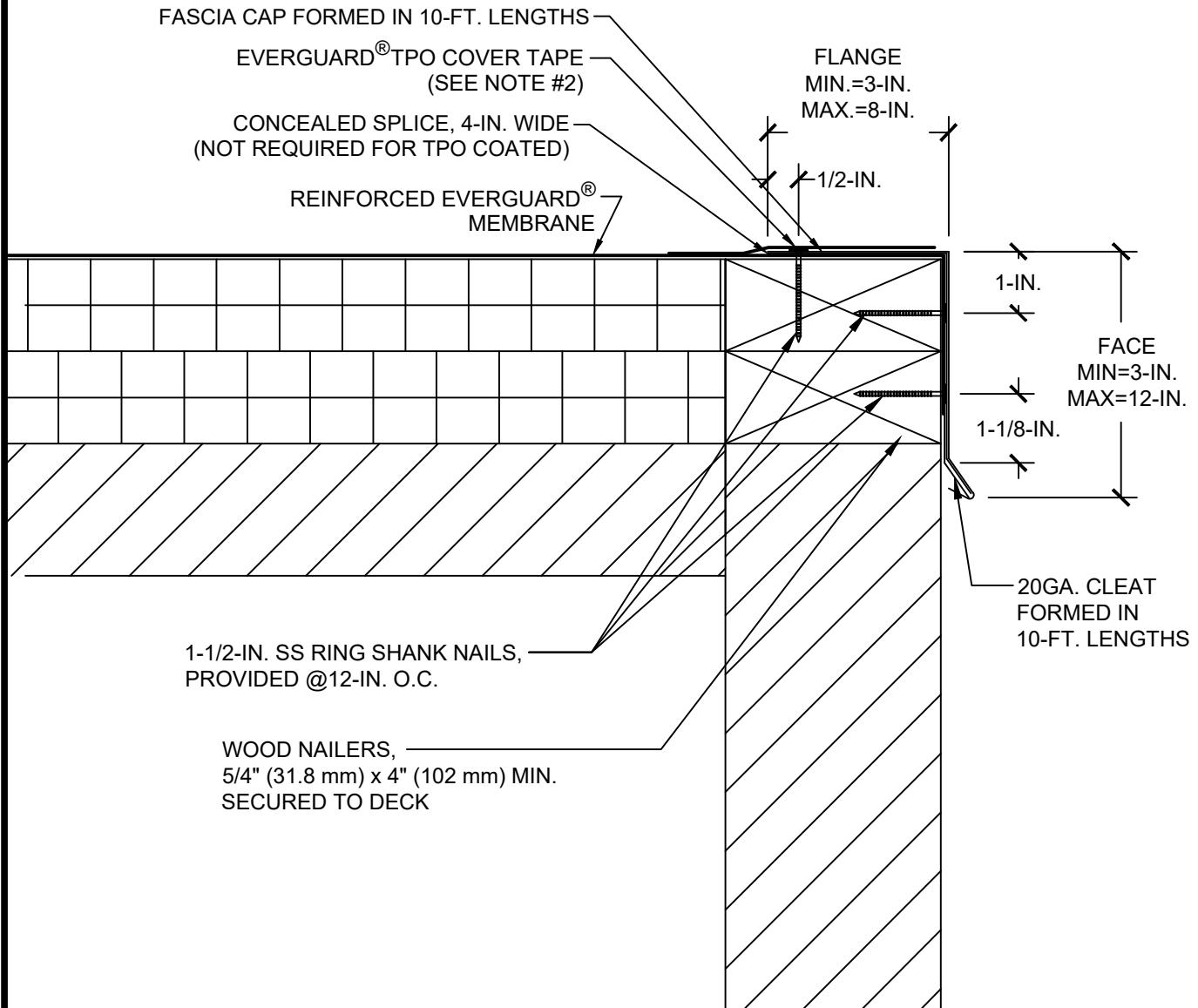
|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

LEGEND

**NOTE:**

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

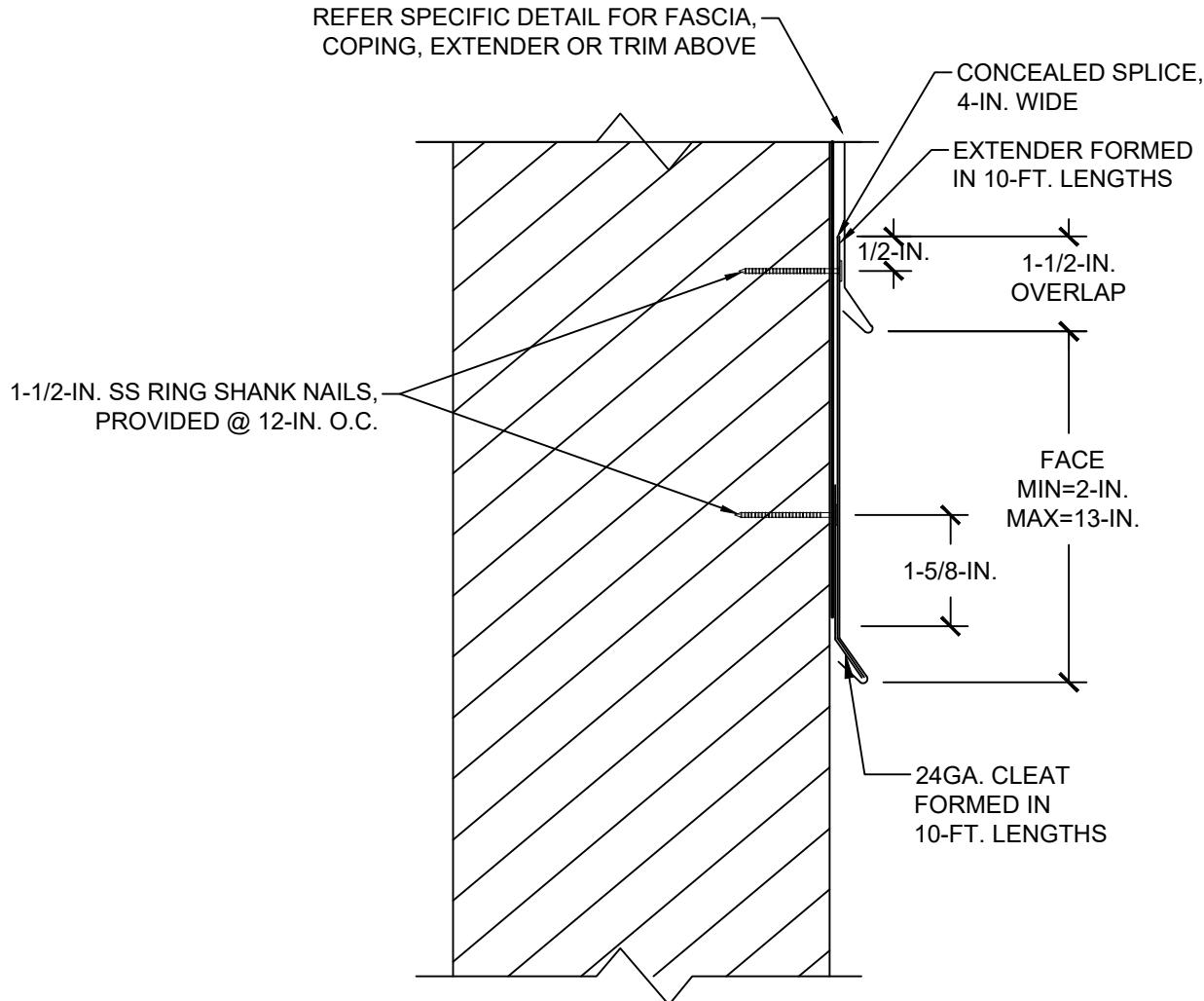
**GAF****STANDARD GRAVEL STOP FASCIA****LEGEND**DRAWING #  
**233**THIS DETAIL APPLIES TO:  
**ALL SYSTEMS**    ISSUE / REVISION DATE: **11/19/20**    SCALE: **N.T.S.**

**NOTE:**

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. FOR HEAT-WELDING LAPS USE 1.5" (38.1 mm) WELD WITH MACHINE AUTOMATIC WELDER AND 2" (50.8 mm) WELD WITH HAND WELDER.

**GAF****STANDARD DRIP EDGE DETAIL****LEGEND**DRAWING #  
**234**

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS             | 11/11/20              | N.T.S. |



## NOTE:

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

GAF

## FASCIA EXTENDER

## LEGEND

DRAWING #  
235A

THIS DETAIL APPLIES TO:

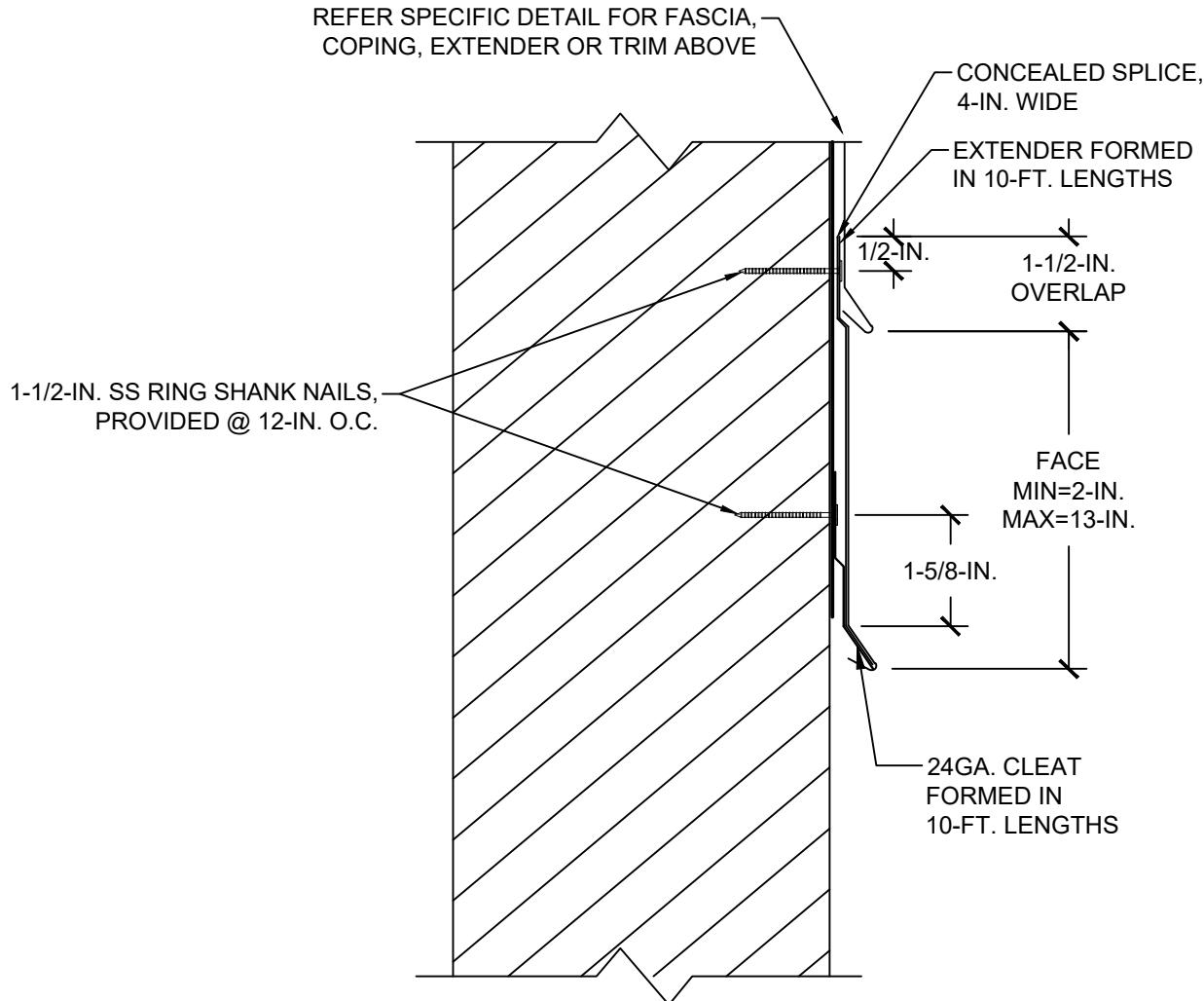
ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

8/17/20

N.T.S.



## NOTE:

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

GAF

## FASCIA EXTENDER WITH OFFSET

## LEGEND

DRAWING #  
235B

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

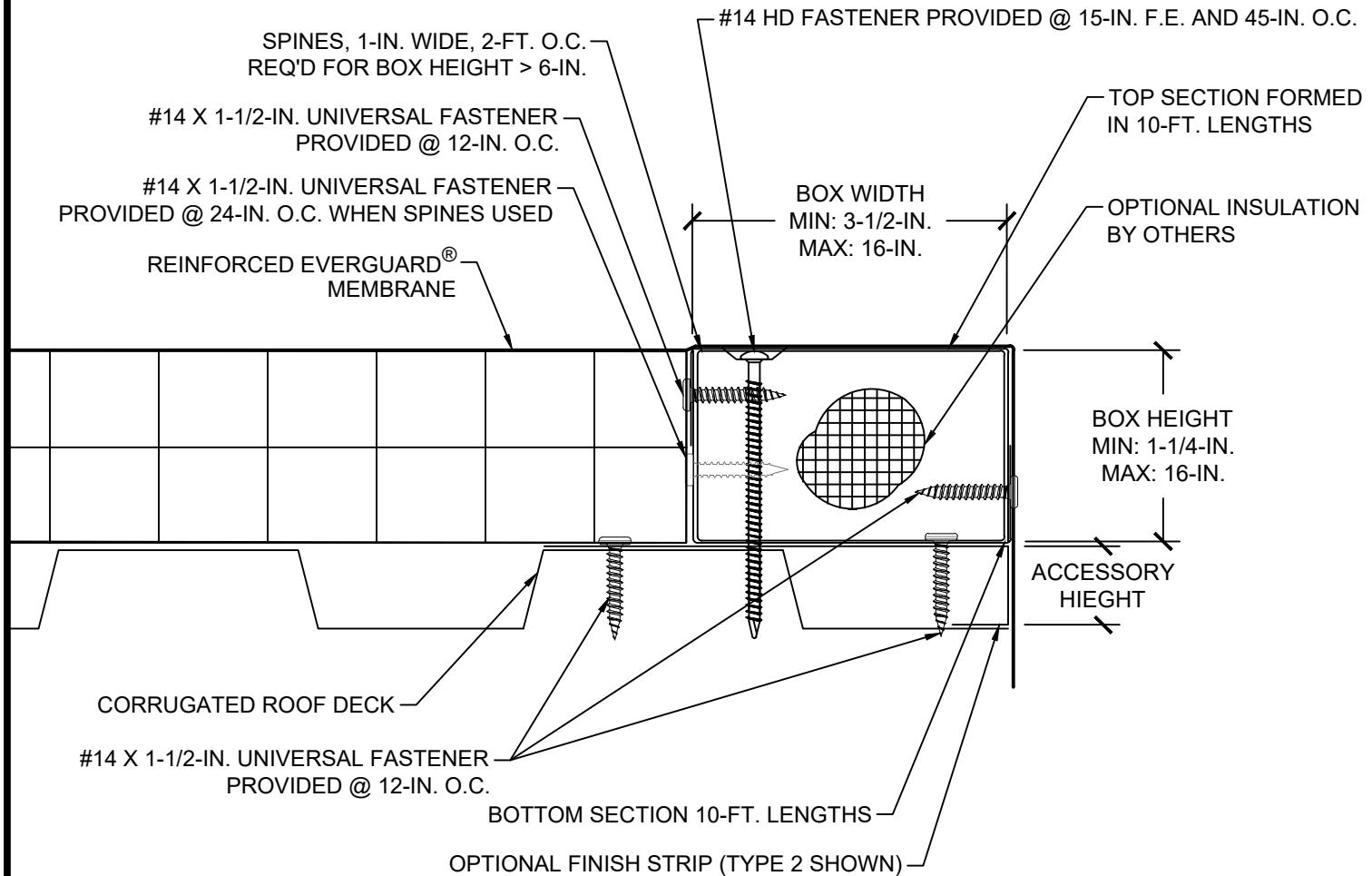
ALL SYSTEMS

8/17/20

N.T.S.

## SINGLE-PLY: TPO & PVC

ANSI/SPRI/FM4435/ES-1 TEST PRESSURES UP TO 911 PSF (VERTICAL) AND 526 PSF (HORIZONTAL)



**NOTE:**

1. PRODUCT TO BE INSTALLED IN STRICT ACCORDANCE WITH GAF PRINTED INSTRUCTIONS.
2. PRE-DRILL WITH 3/16-IN. DRILL BIT FOR MASONRY CONDITIONS.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED TO MEET/EXCEED ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

**GAF**

EDGE BOX RI

LEGEND

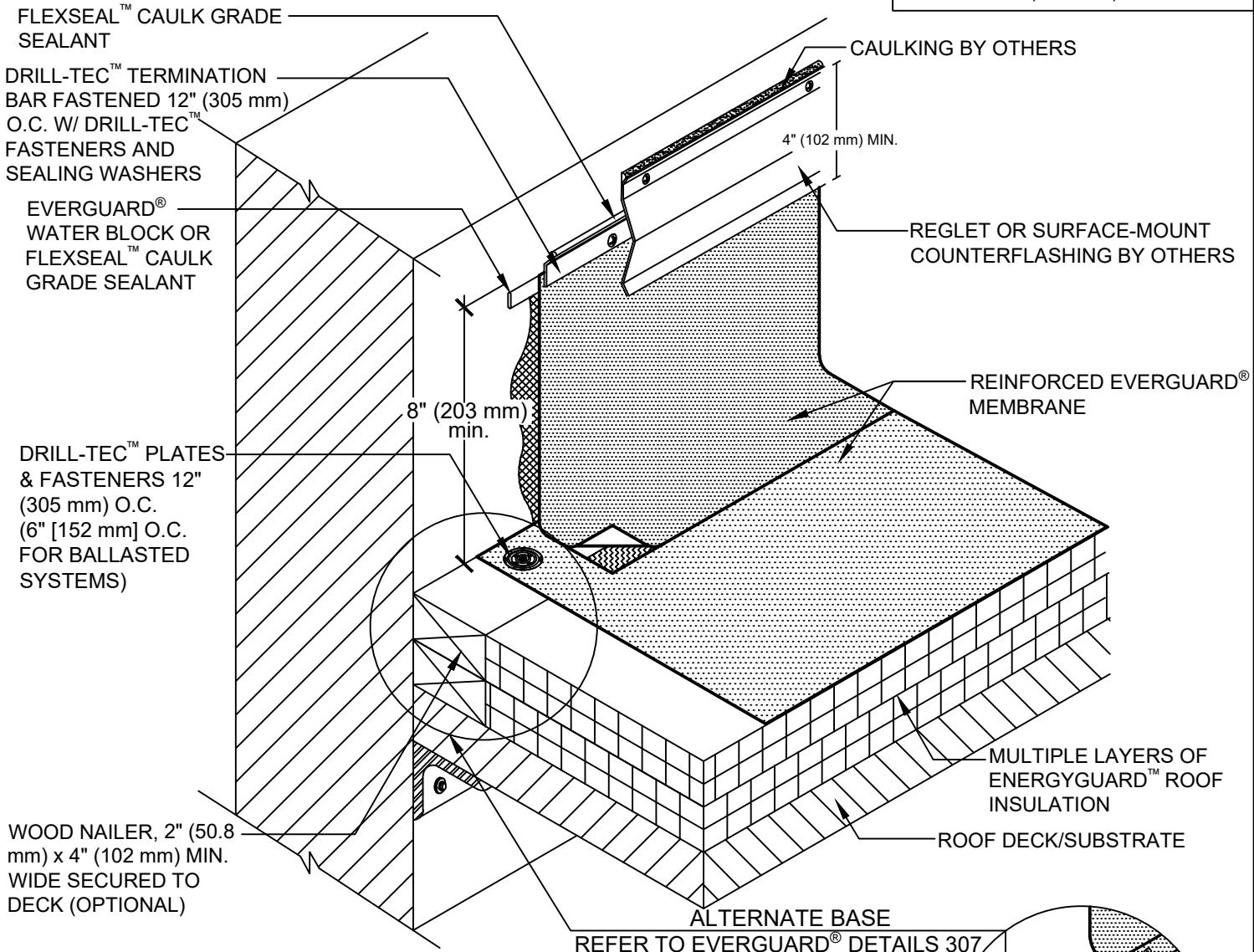
DRAWING #  
**236**

|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

## SINGLE-PLY: TPO & PVC

### FLASHING KEY

- 30" - 66" (762 mm - 1.68 m)  
REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



**GAF**

### WALL FLASHING WITH COUNTERFLASHING

#### LEGEND

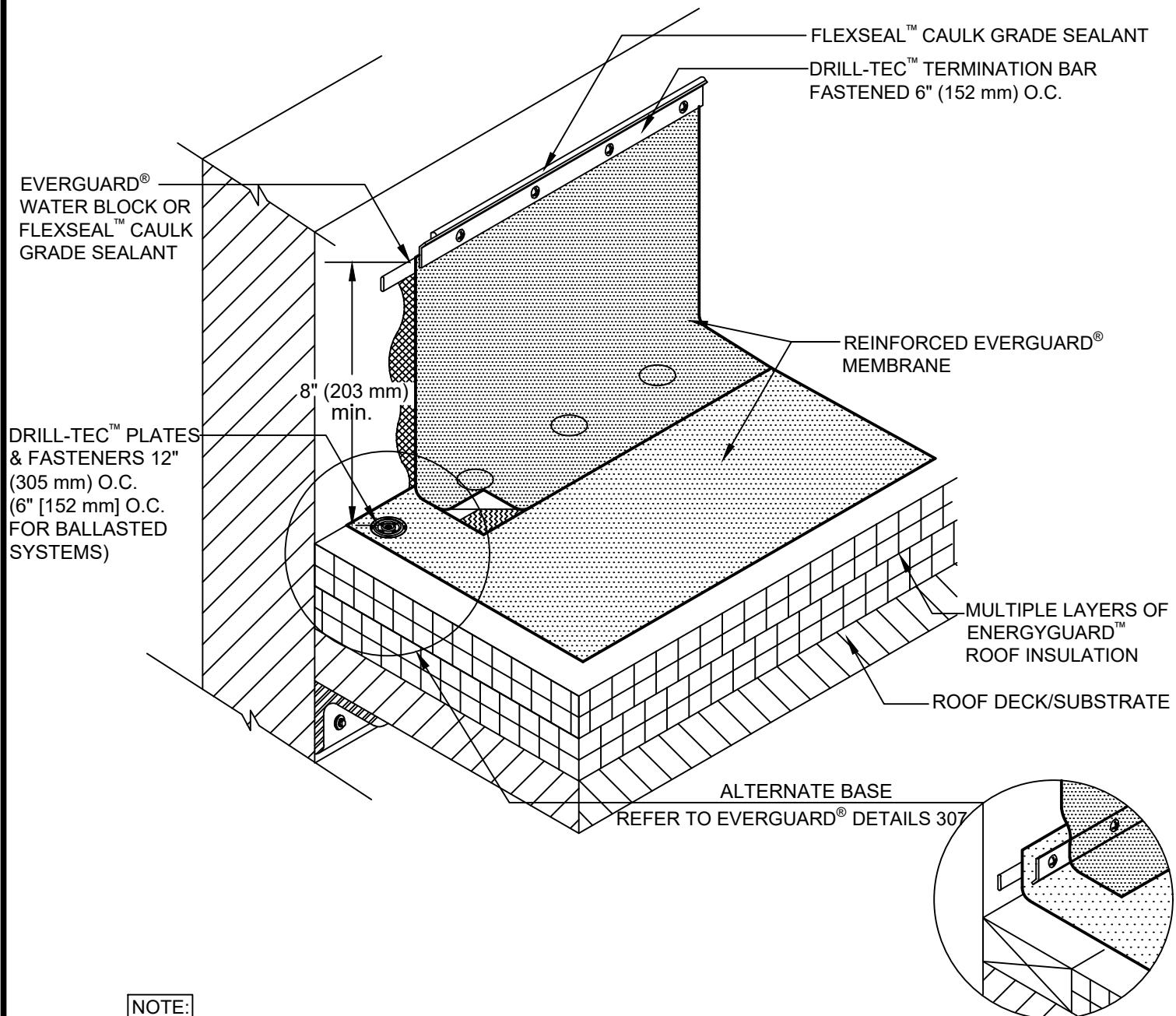
 HEAT-WELDED

 EVERGUARD® BONDING ADHESIVE

DRAWING #  
**301A**

|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ALL SYSTEMS             | 8/17/20               | N.T.S. |

- 30" - 66" (762 mm - 1.68 m) REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



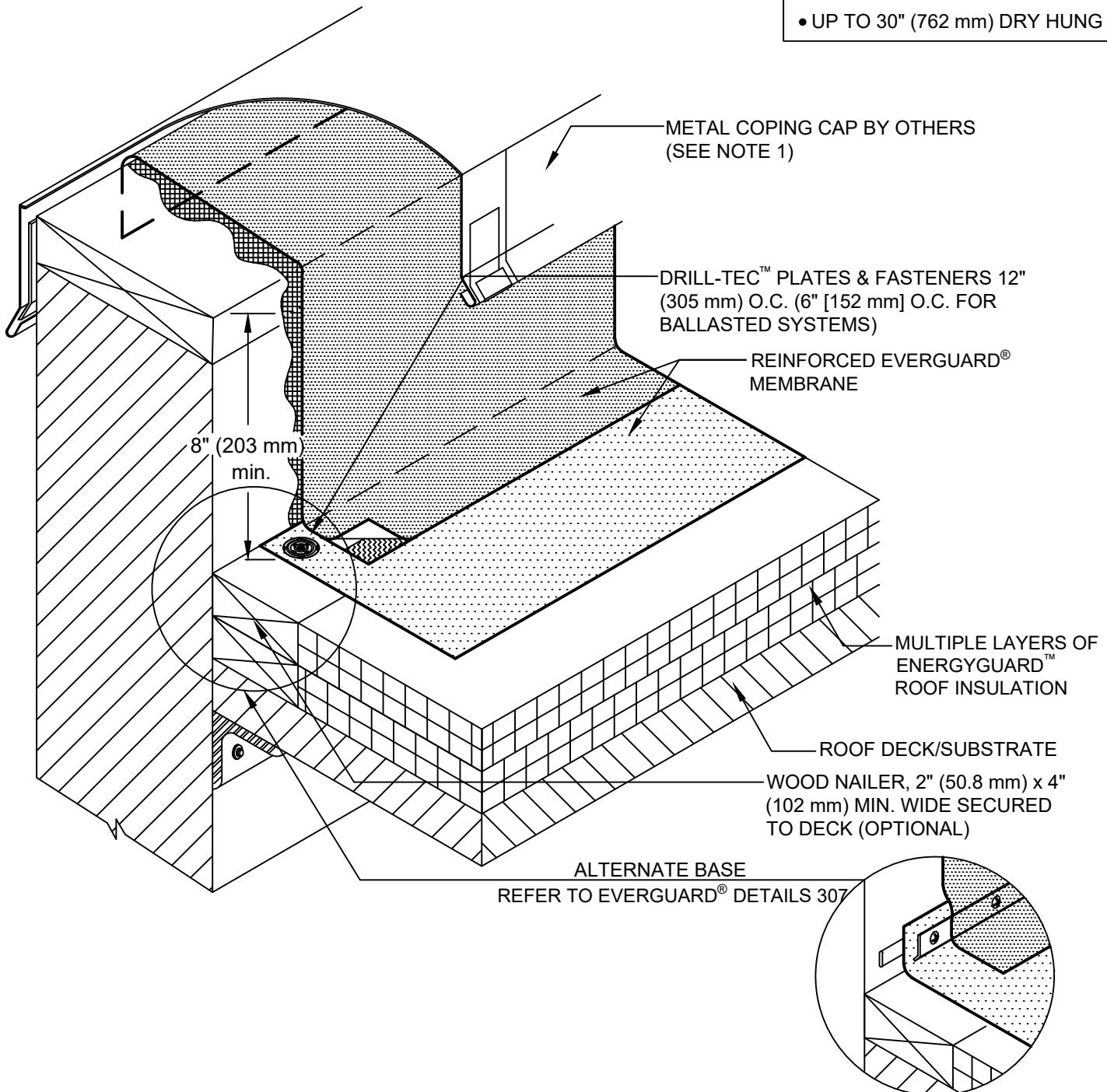
## NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. IF EVERGUARD® FREEDOM MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

## SINGLE-PLY: TPO & PVC

### FLASHING KEY

- 30" - 66" (762 mm - 1.68 m)  
REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



#### NOTE:

1. PERIMETER EDGE METAL SHOULD BE DESIGNED FOR WIND RESISTANCE IN ACCORDANCE WITH THE APPLICABLE EDITION OF ASCE 7 AND TESTED FOR RESISTANCE IN ACCORDANCE WITH THE TEST METHODS IN THE APPLICABLE EDITION OF ANSI/SPRI ES-1.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
3. IF EVERGUARD® FREEDOM MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

**GAF**

### WALL FLASHING WITH COPING CAP

### LEGEND



DRAWING #  
**303**

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

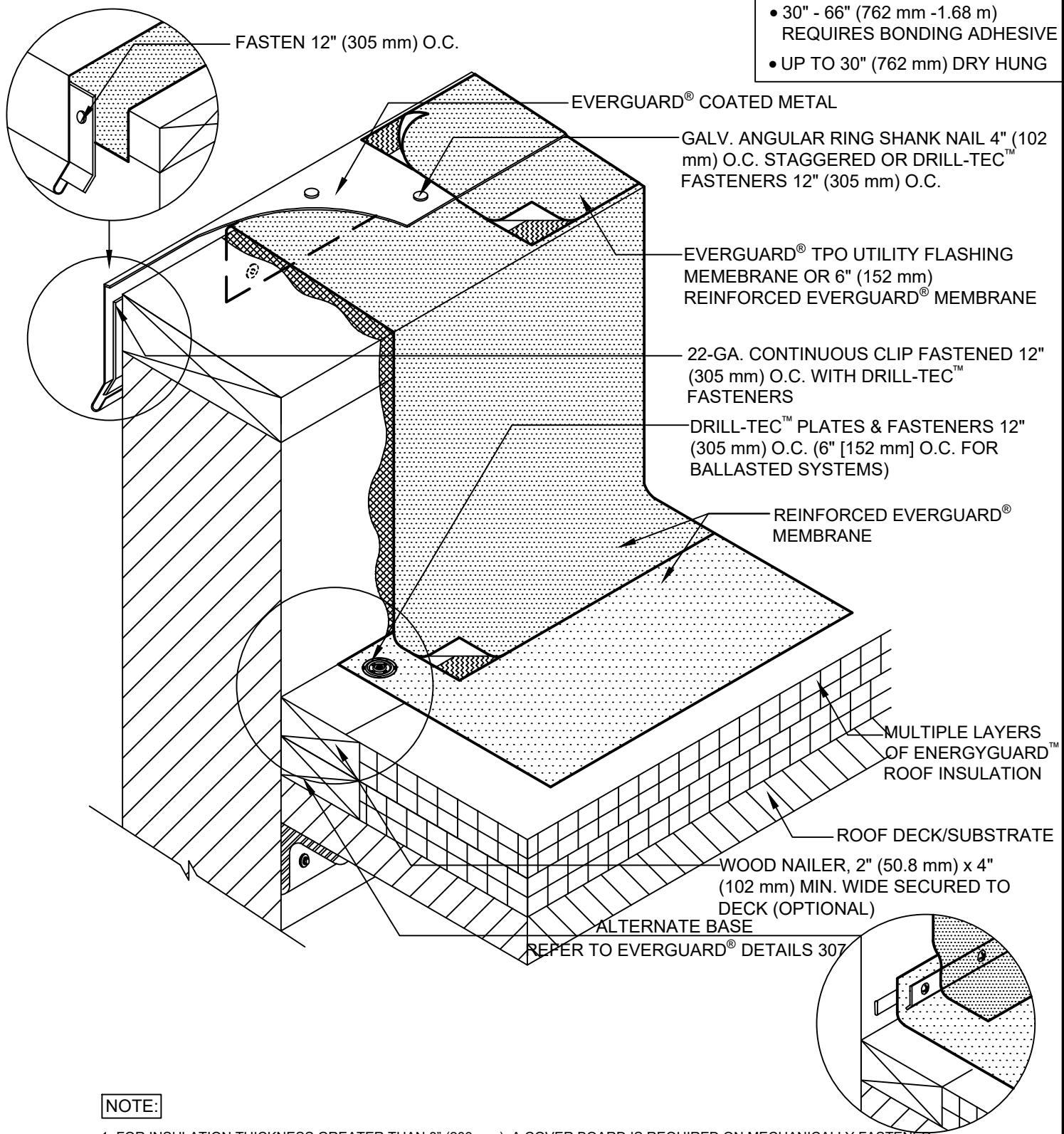
2/2/21

N.T.S.

## SINGLE-PLY: TPO & PVC

### FLASHING KEY

- 30" - 66" (762 mm - 1.68 m) REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



**GAF**

### WALL FLASHING WITH COATED METAL EDGE

DRAWING #  
**304**

GAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • [technicalservices@gaf.com](mailto:technicalservices@gaf.com) • 800-766-3411

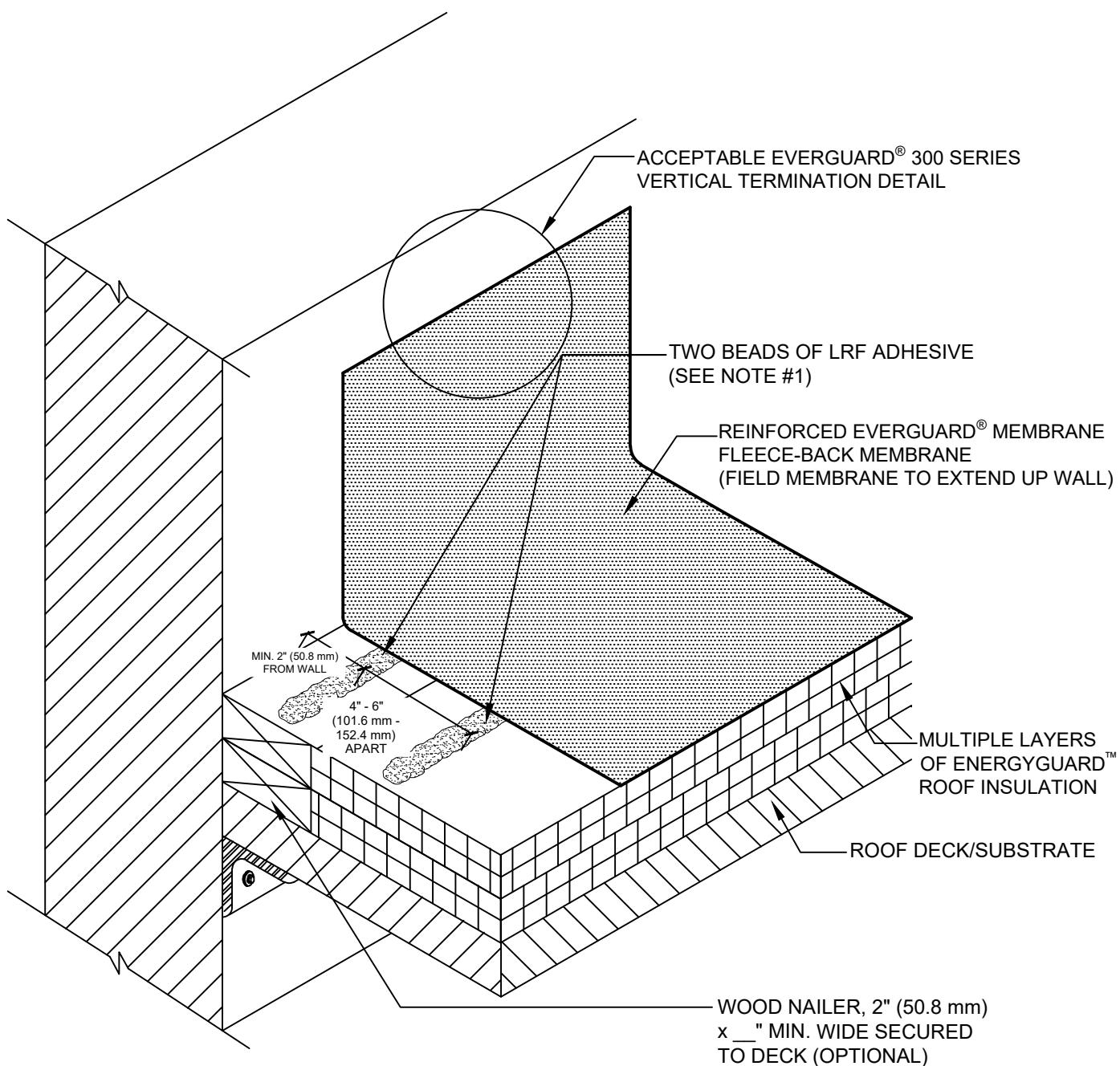
THIS DETAIL APPLIES TO:  
**ALL SYSTEMS**

ISSUE / REVISION DATE  
**8/24/20**

SCALE  
**N.T.S.**

### LEGEND





NOTE:

1. REFER TO EVERGUARD® SPEC MANUAL FOR APPROVED LRF ADHESIVES, BEAD SIZE, AND PATTERNS.

**GAF**

LOW RISE FOAM AT BASE ATTACHMENT

DRAWING #  
**306A**

THIS DETAIL APPLIES TO:

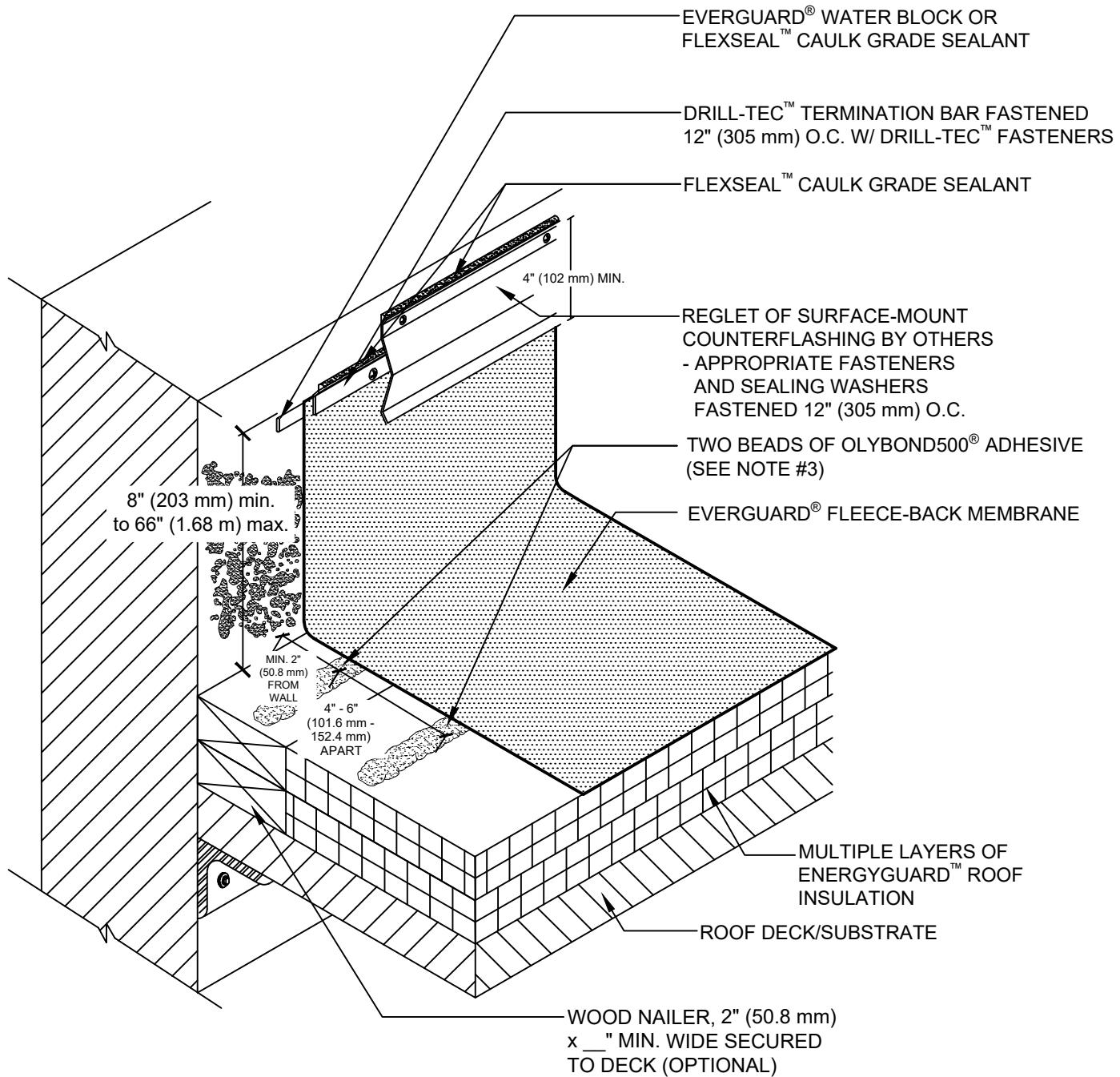
ISSUE / REVISION DATE

SCALE

ADHERED SYSTEMS

5/21/21

LEGEND



NOTE:

1. EXISTING REGLET IS ACCEPTABLE IF METAL IS IN GOOD CONDITION.
2. EXPOSED WALLS/CURBS MUST BE WATERPROOFED AND MAINTAINED ABOVE THE BASE FLASHING IN ORDER FOR ANY SURFACE-MOUNTED TERMINATION TO BE EFFECTIVE.
3. REFER TO EVERGUARD® SPEC MANUAL FOR APPROVED LRF ADHESIVES, BEAD SIZE, AND PATTERNS.

**GAF**

LOW RISE FOAM AT WALL ATTACHMENT

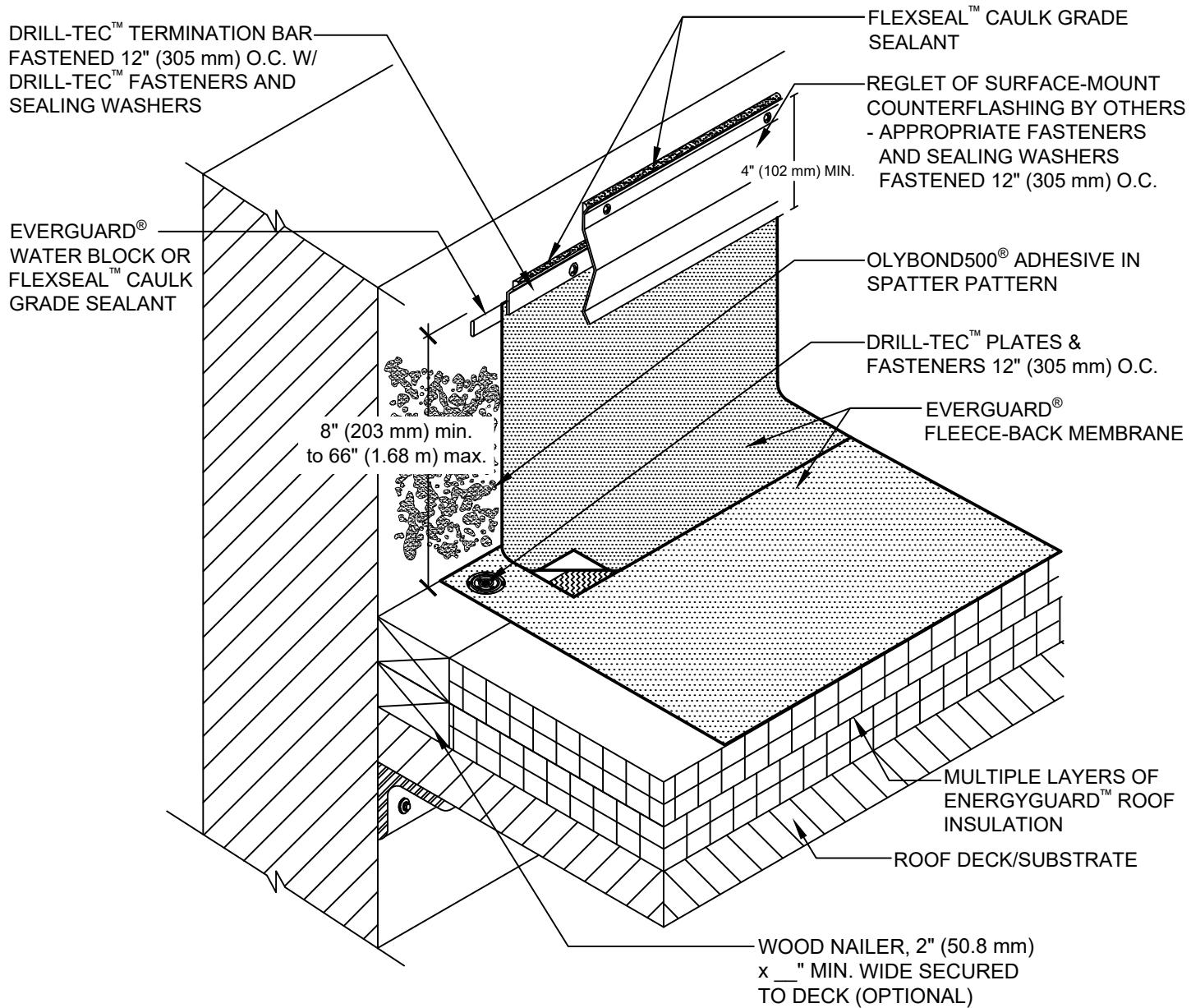
DRAWING #  
**306B**

LEGEND



OLYBOND500® ADHESIVE IN SPATTER PATTERN

|                         |                       |        |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE  |
| ADHERED SYSTEMS         | 5/21/21               | N.T.S. |



NOTE:

1. EXISTING REGLET IS ACCEPTABLE IF METAL IS IN GOOD CONDITION.
2. EXPOSED WALLS/CURBS MUST BE WATERPROOFED AND MAINTAINED ABOVE THE BASE FLASHING IN ORDER FOR ANY SURFACE-MOUNTED TERMINATION TO BE EFFECTIVE.

**GAF**

ALTERNATE LOW RISE FOAM AT WALL ATTACHMENT

DRAWING #  
**306C**

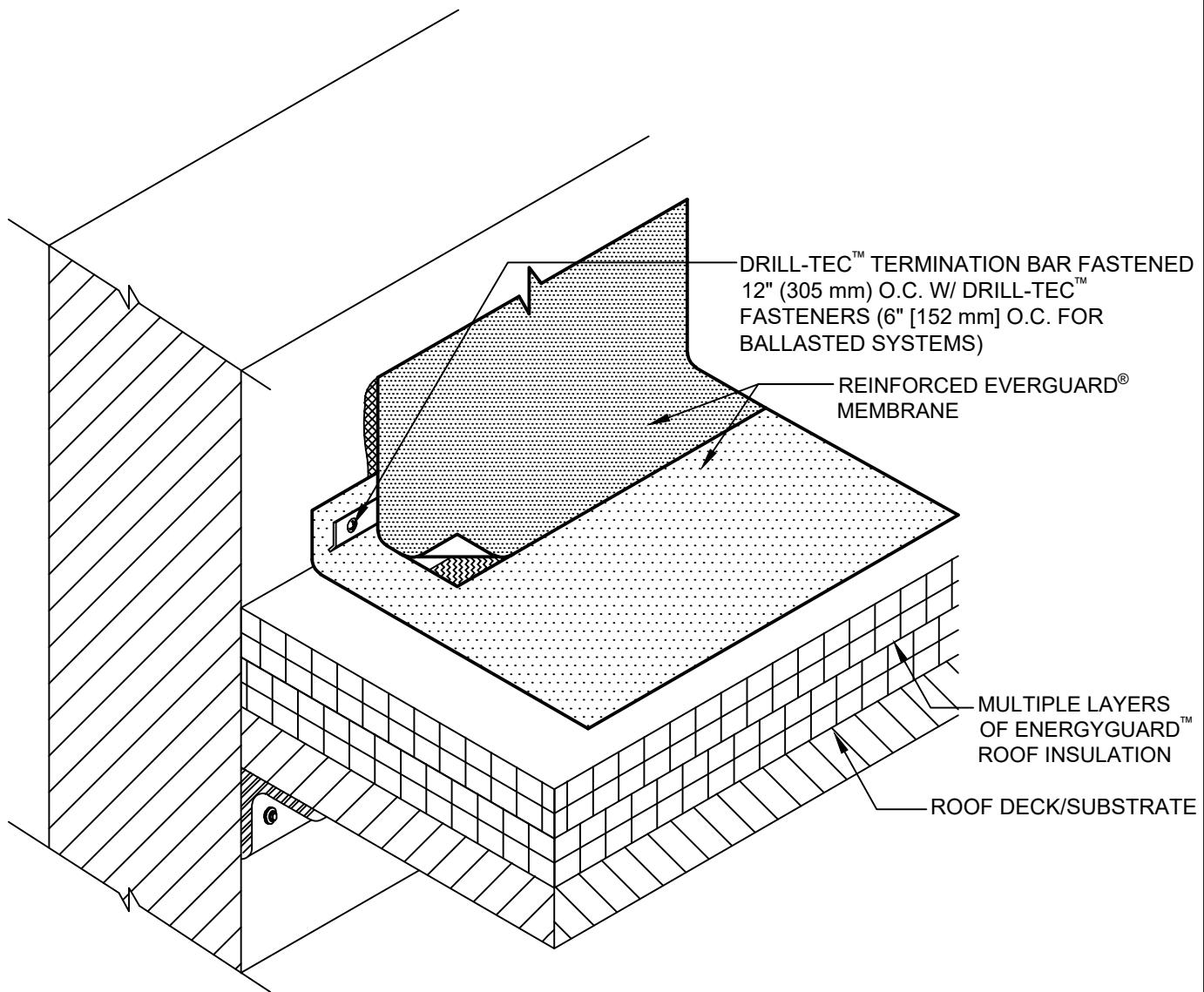
THIS DETAIL APPLIES TO:  
ADHERED SYSTEMS

ISSUE / REVISION DATE  
5/21/21

LEGEND

HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT



## NOTE:

1. PLATES & FASTENERS MAY BE USED IN LIEU OF TERM BAR IN NON-PRESSURIZED SITUATIONS.
2. THIS DETAIL NEEDS TO BE USED FOR PRESSURIZED SITUATIONS, IN ALL SYSTEMS.
3. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
4. IF EVERGUARD® FREEDOM MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

## ALTERNATE WALL BASE TERMINATION

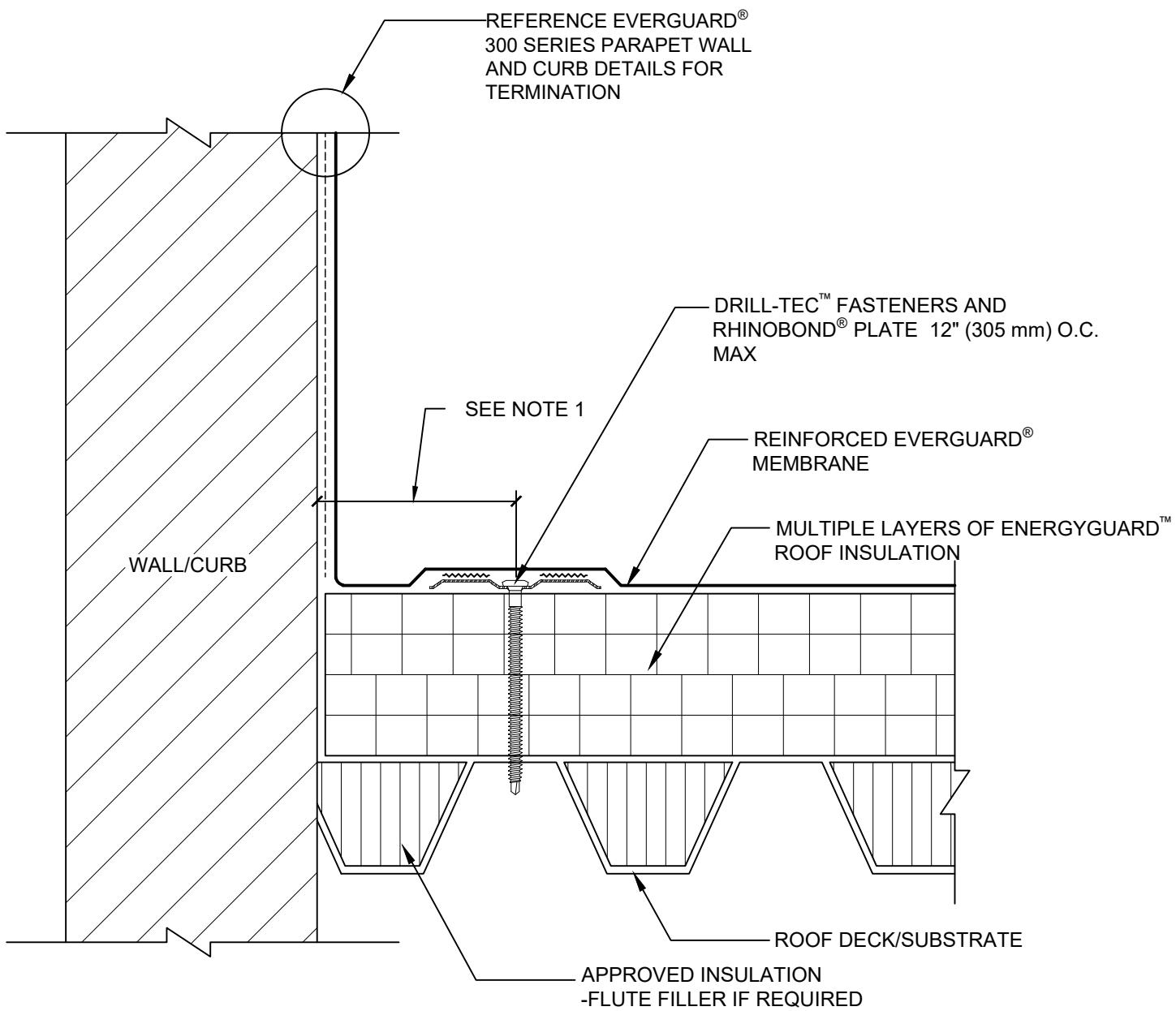
DRAWING #  
307AGAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • [technicalservices@gaf.com](mailto:technicalservices@gaf.com) • 800-766-3411THIS DETAIL APPLIES TO:  
ALL SYSTEMSISSUE / REVISION DATE  
8/24/20SCALE  
N.T.S.

## LEGEND

HEAT-WELDED

EVERGUARD® BONDING ADHESIVE

OPTIONAL UP TO 30° (762 mm) FLASHING HEIGHT



**NOTE:**

1. DRILL-TEC™ FASTENERS AND RHINOBOND® PLATES MUST BE INSTALLED A MAXIMUM 6" (152 mm) FROM THE ANGLE CHANGE.
2. REFER TO THE DRILL-TEC™ RHINOBOND® ATTACHMENT TABLES FOR DETAILED INSTALLATION REQUIREMENTS REGARDING DECK TYPE, PLATE & FASTENER TYPE, AND MIN. EMBEDMENT.
3. EVERGUARD® BONDING ADHESIVE OPTIONAL UP TO 30" (762 mm) FLASHING HEIGHT.

**GAF**

**BASE TIE-IN CONTINUOUS FLASHING AT ANGLE CHANGE**

DRAWING #  
**307B**

THIS DETAIL APPLIES TO:

RHINOBOND® SYSTEMS

ISSUE / REVISION DATE

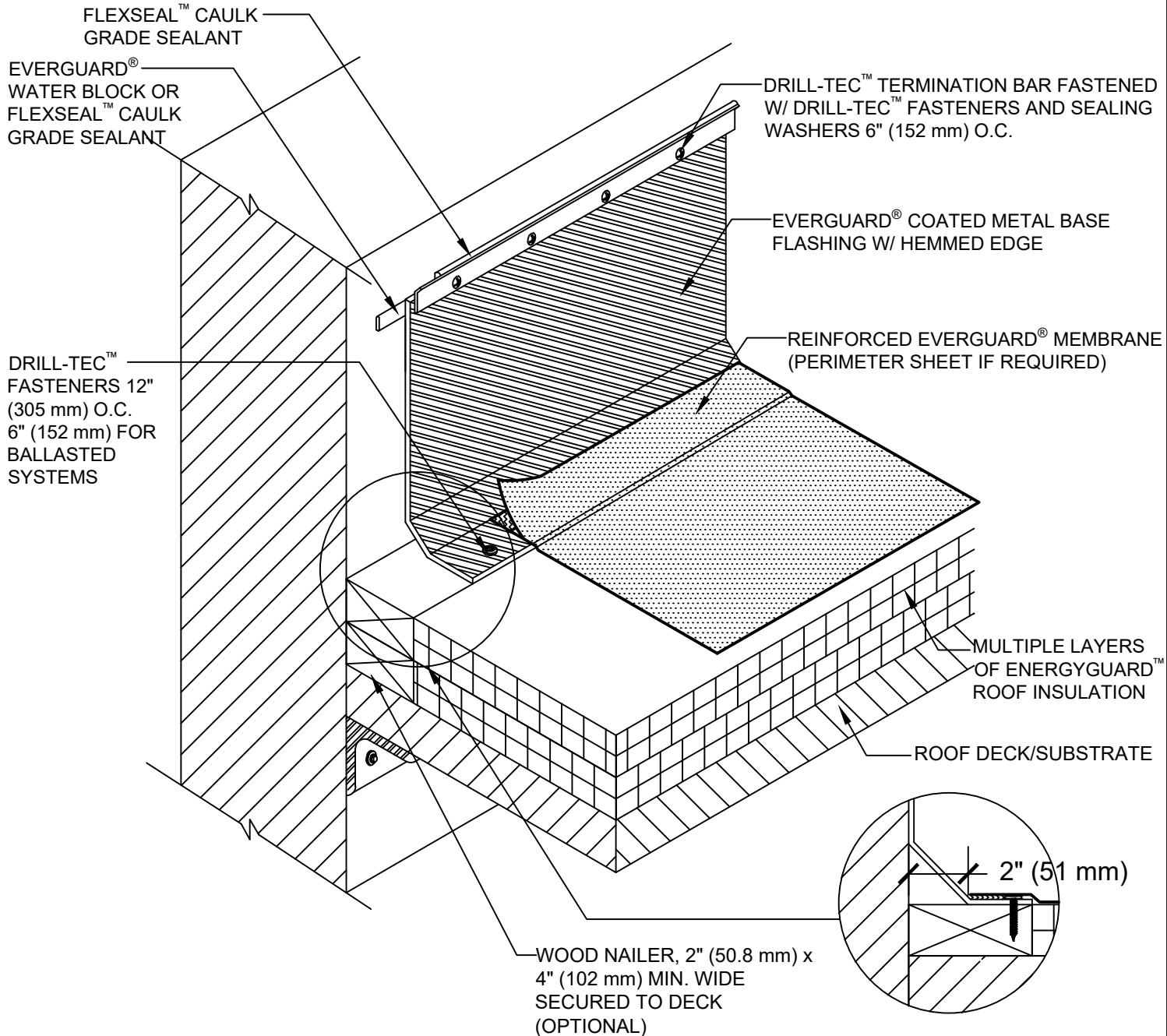
8/11/20

SCALE

N.T.S.

**LEGEND**

— EVERGUARD® BONDING ADHESIVE  
~~~~~ INDUCTION HEAT-WELD



NOTE:

1. FOR EXTENDED GUARANTEE, COUNTERFLASHING MUST BE USED. SEE EVERGUARD® DETAIL 301.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. FOR 15-YR. GUARANTEE, ADD FLEXSEAL™ CAULK GRADE SEALANT BEHIND COATED METAL. ADD TERMINATION BAR EVEN WITH TOP OF COATED METAL. SECURE BAR 12" (305 mm) O.C. AND ADD FLEXSEAL™ CAULK GRADE SEALANT IN A BEAD SO THAT BOTH COATED METAL AND TERMINATION BAR ARE COVERED.

GAF

COATED METAL WALL FLASHING

DRAWING #
308

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

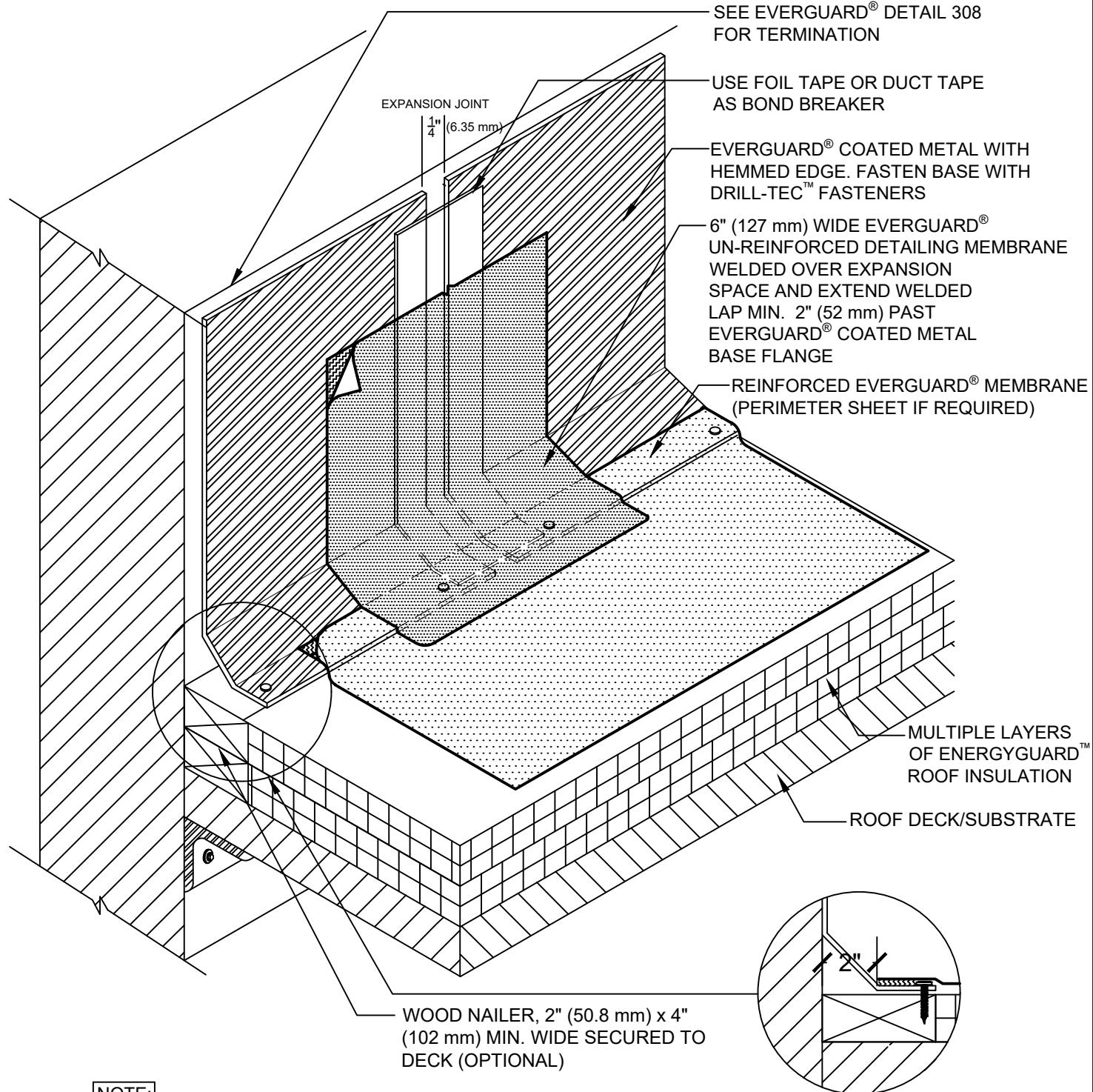
SCALE

ALL SYSTEMS

8/24/20

LEGEND

HEAT-WELDED



NOTE:

1. DETAIL TO BE USED IN CONJUNCTION WITH STANDARD GUIDE SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.

GAF

COATED METAL WALL FLASHING JOINT

LEGEND

DRAWING #
310

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

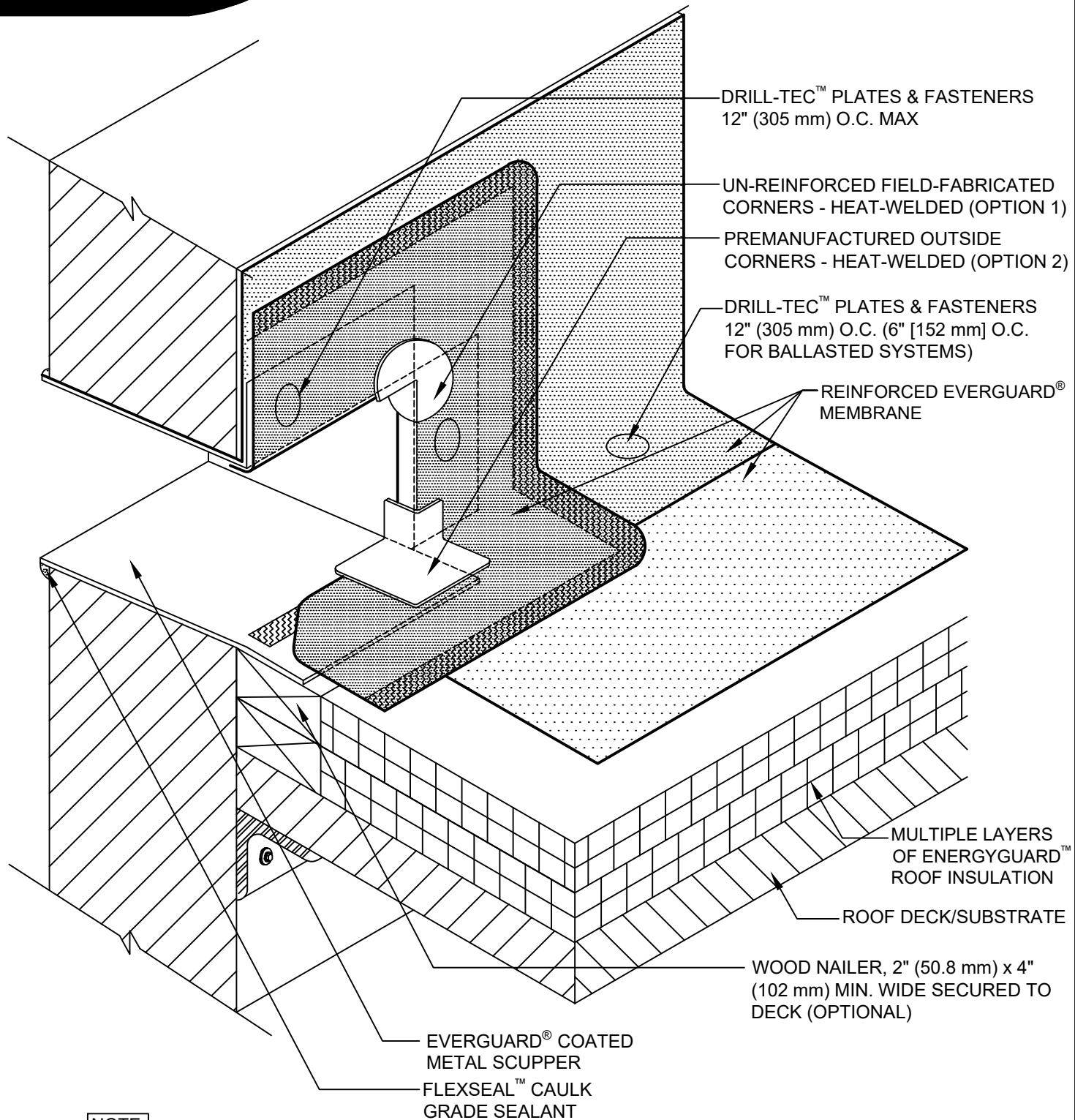
SCALE

ALL SYSTEMS

8/24/20

HEAT-WELDED

SINGLE-PLY: TPO & PVC



GAF

COATED METAL WALL SCUPPER

DRAWING #
311

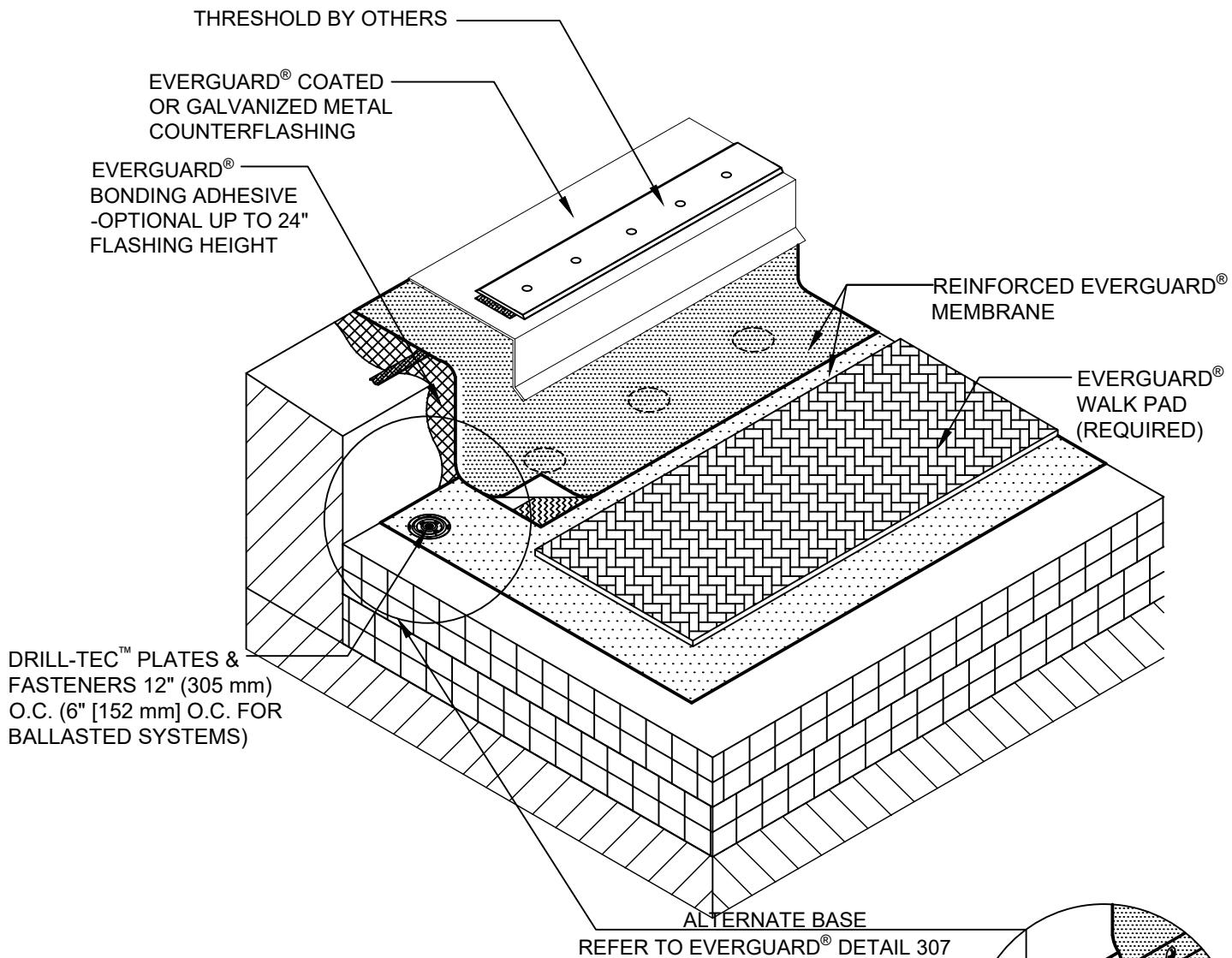
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

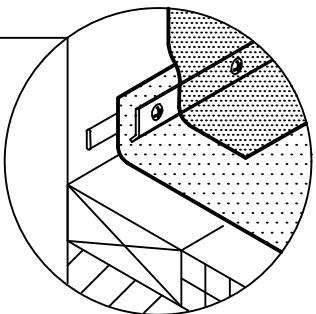
LEGEND

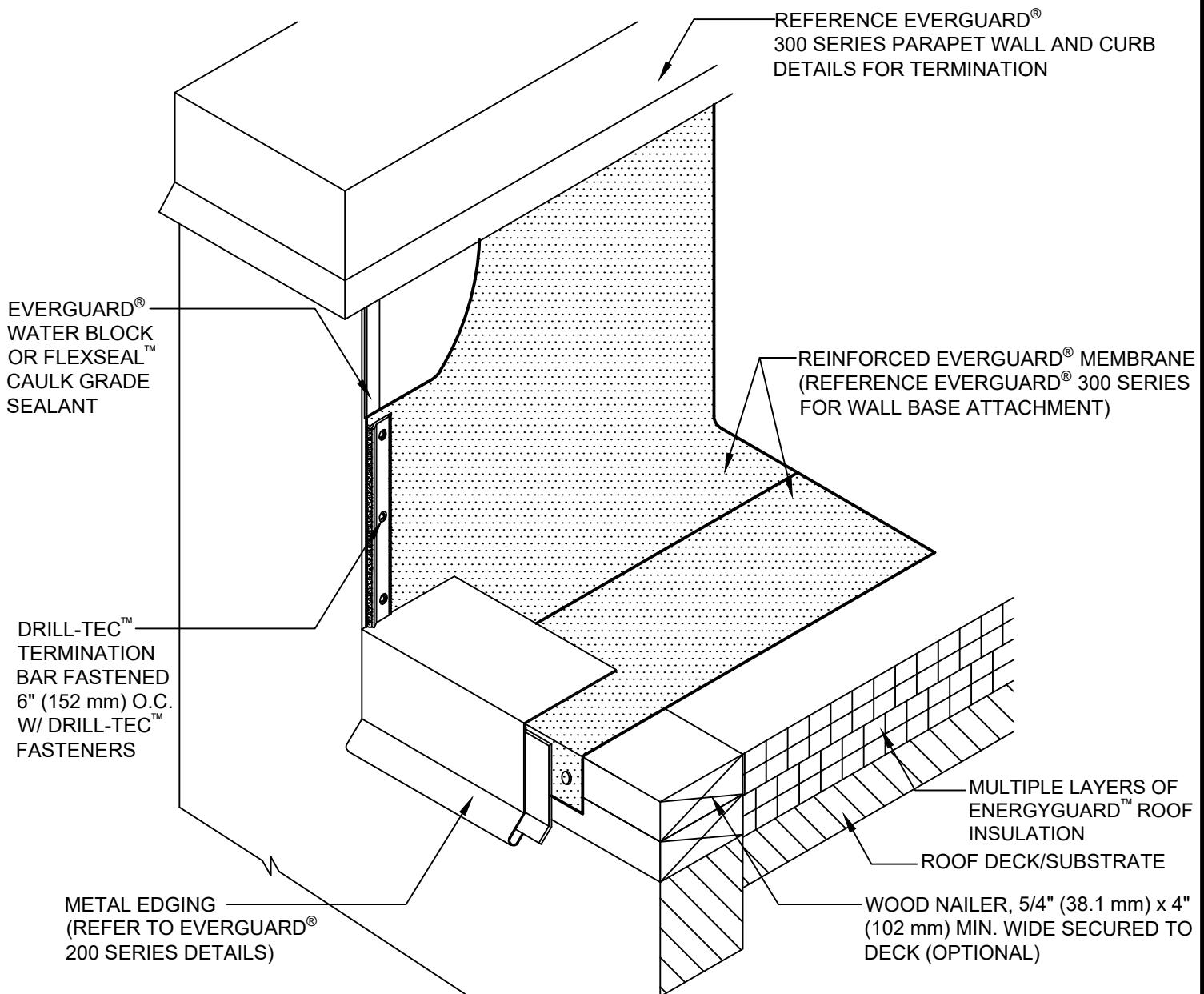
HEAT-WELDED



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. WALKWAY PAD OR PAVER WITH SLIP SHEET REQUIRED AT ALL ROOF ACCESS POINTS. FOR BALLASTED ATTACHED SYSTEMS PAVER IN LIEU OF PAD AND BALLAST PER SPEC.
3. IF EVERGUARD® FREEDOM™ MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.
4. FOR HEIGHTS LESS THAN 8" (203 mm) CONTACT GAF FOR MORE INFORMATION.





NOTE:

1. FLEXSEAL™ CAULK GRADE SEALANT IS TO BE ADDED TO ALL TERMINATION BAR EDGES, OPEN HOLES, AND DRILL-TEC™ FASTENER HEADS.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. IF EVERGUARD® FREEDOM™ MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

WALL EDGE FLASHING WITH TERMINATION BAR

LEGEND

DRAWING #
313

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

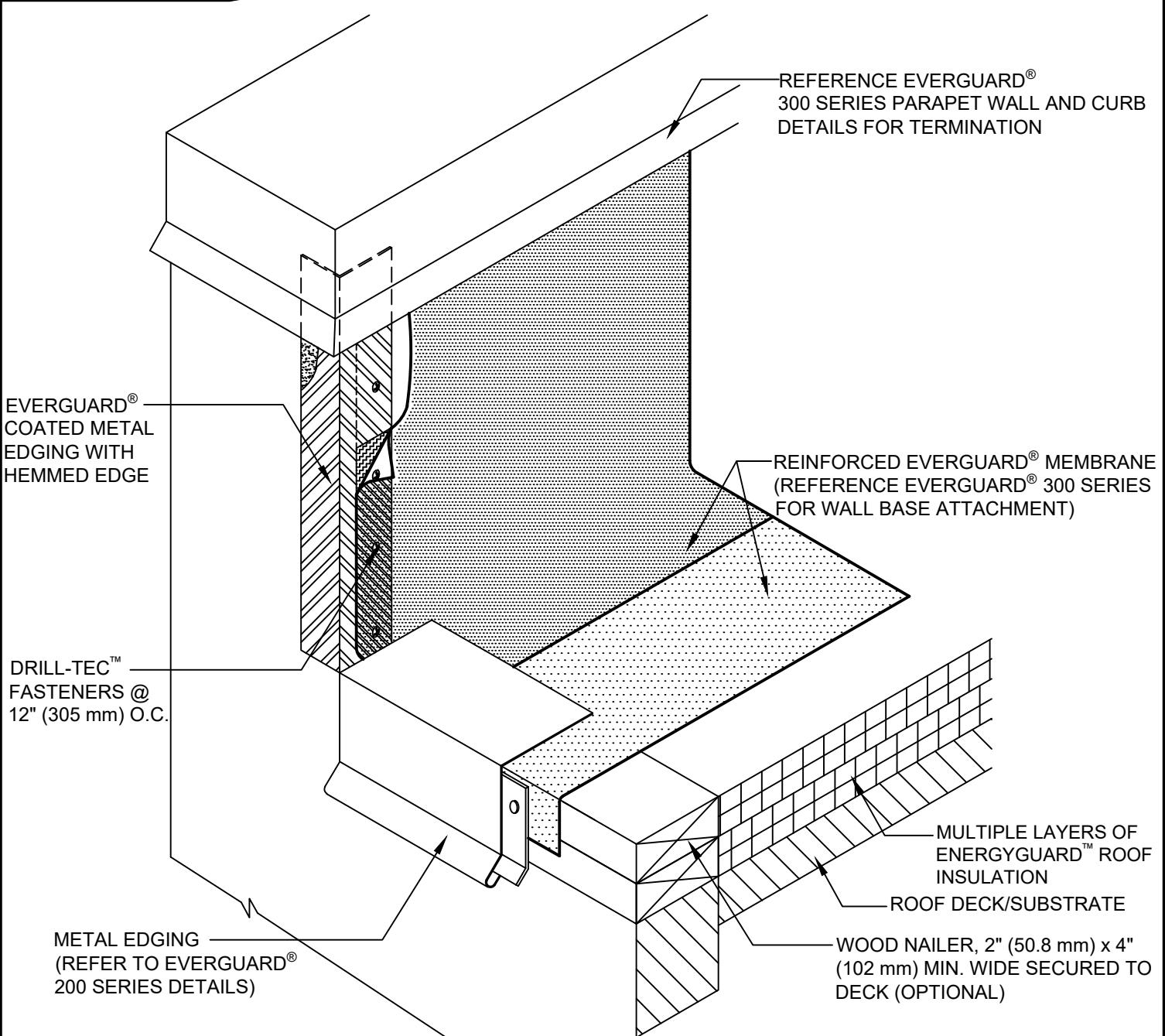
SCALE

ALL SYSTEMS

8/24/20

N.T.S.

FLEXSEAL™ CAULK GRADE SEALANT



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. IF EVERGUARD® FREEDOM MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

WALL EDGE FLASHING WITH COATED METAL EDGING

DRAWING #
314

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/24/20

SCALE

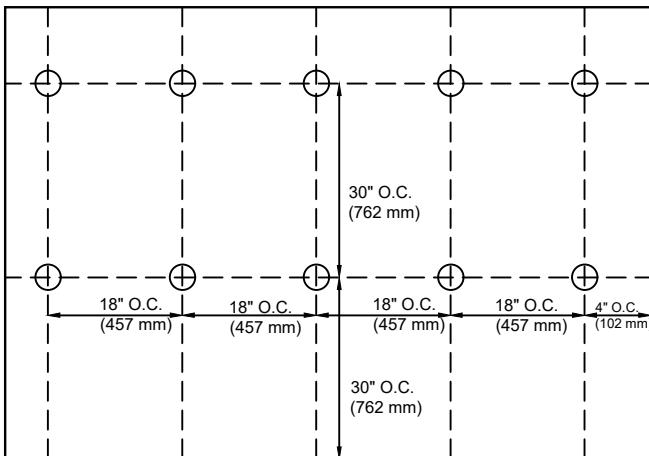
N.T.S.

LEGEND

HEAT-WELDED

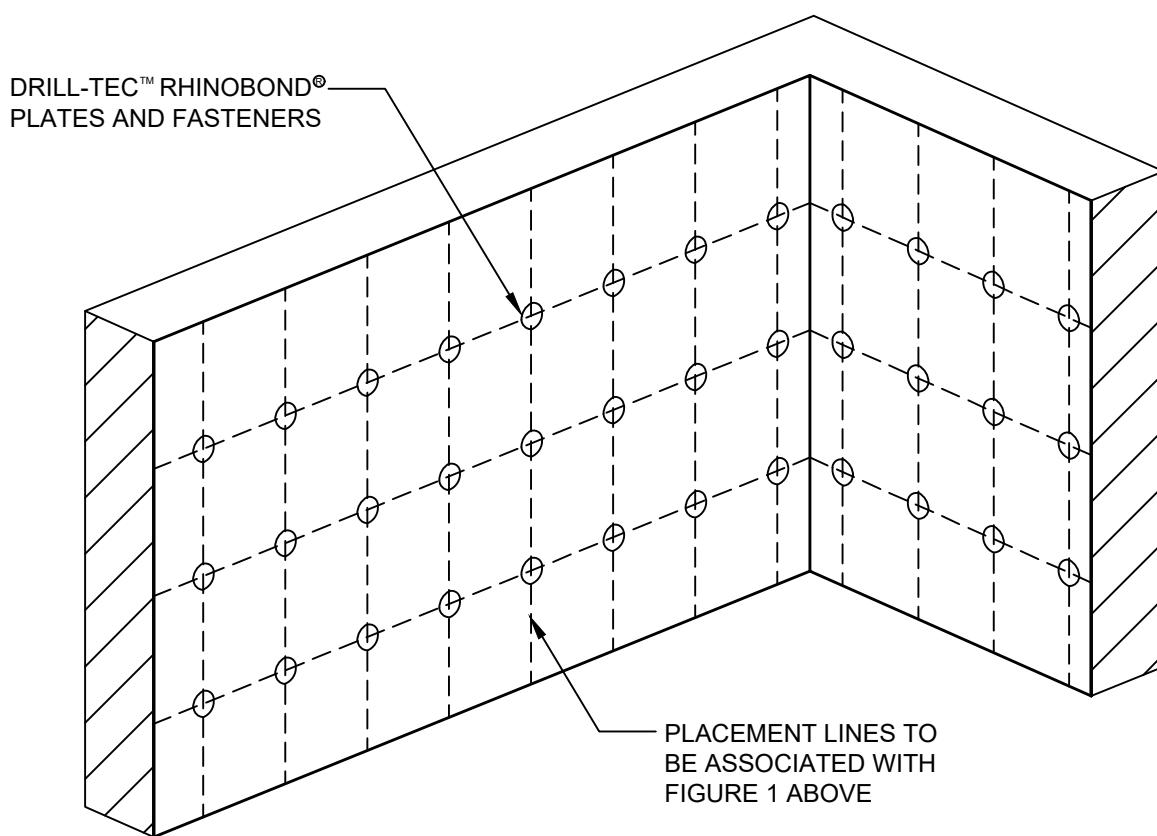
FLEXSEAL™ CAULK GRADE SEALANT

FIGURE 1



FROM CORNER OF WALL
 FIRST ROW 4" (102 mm)
 O.C FROM CORNER
 THEN FASTENERS
 18" (457 mm) O.C.

FROM BASE OF WALL
 FIRST ROW OF FASTENERS 30" (762 mm) OFF WALL BASE
 CONTINUE 30" (762 mm) UP WALL.



NOTE:

1. BASE ATTACHMENT TO FOLLOW FIELD OF ROOF APPLICATION.

GAF

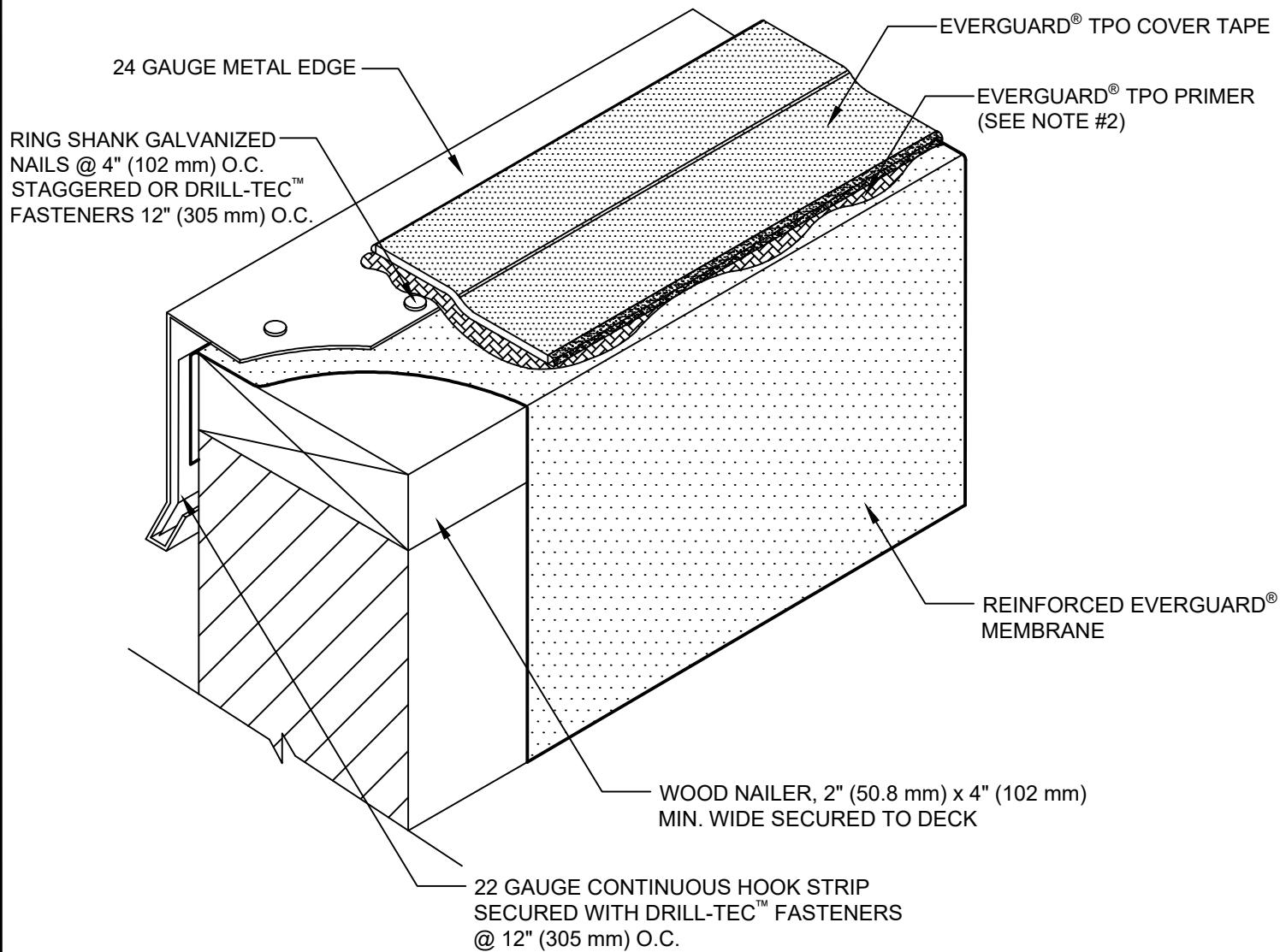
RHINOBOND WALL FLASHING FASTENING PATTERN

DRAWING #
315

THIS DETAIL APPLIES TO:
 ADHERED SYSTEMS
 BALLASTED SYSTEMS
 MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE
11/23/20

SCALE
 N.T.S.



NOTE:

1. METAL JOINTS ON THE ROOF SIDE CAN BE CAULKED USING EVERGUARD® TPO CUT EDGE SEALANT. DO NOT RUN TAPE UP CANTED METAL OR GRAVEL STOP.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.
3. FLEXSEAL™ CAULK GRADE SEALANT SHOULD BE FEATHERED OUT AND APPLIED TO BOTH INSIDE AND OUTSIDE EDGES. ENSURE PRIMER EXTENDS UNDER FLEXSEAL CAULK GRADE SEALANT.
4. EVERGUARD® TPO COVER TAPE TO BE USED ONLY ON HORIZONTAL SURFACES, NOT TURNED VERTICALLY.

GAF

PARAPET WALL WITH METAL EDGE AND TPO COVER TAPE

DRAWING #
316

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

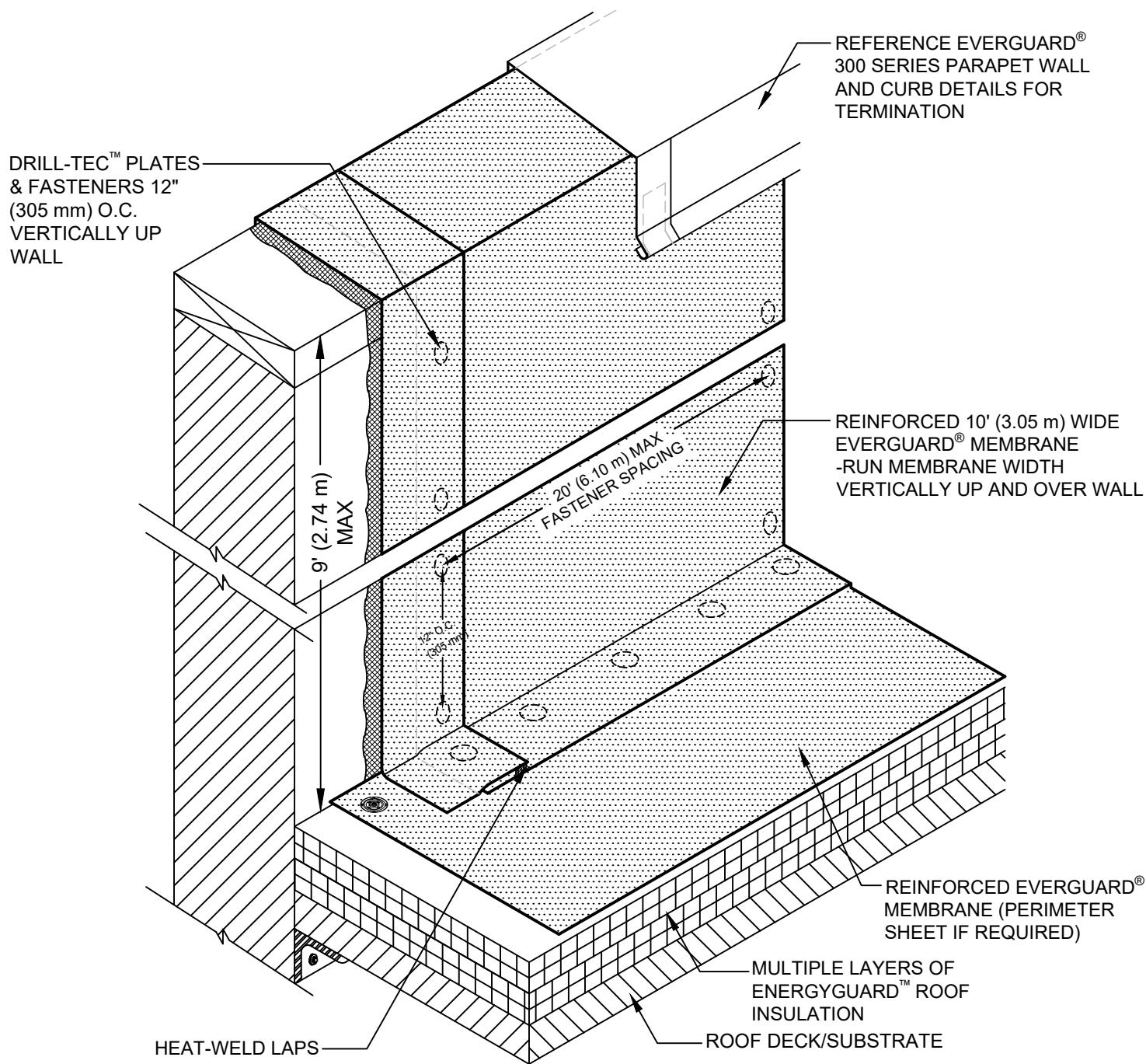
ALL SYSTEMS

8/24/20

N.T.S.

LEGEND

FLEXSEAL™ CAULK GRADE SEALANT



NOTE:

1. MUST BE FASTENED VERTICALLY ON THE WALL A MINIMUM 10' (3.05 m) FROM ALL ENDS OR CORNERS OF WALL, THEN MAX 20' (6.10 m) THEREAFTER. DRILL-TEC™ FASTENERS SPACED 12" (305 mm) O.C.
2. MAX PARAPET WALL HEIGHT NOT TO EXCEED THE WIDTH OF A 10' (3.05 m) SHEET. PARAPET WALL SHOULD BE NO TALLER THAN 9' (2.74 m) TO USE A FULL 10' (3.05 m) SHEET OF MEMBRANE AS FLASHING.

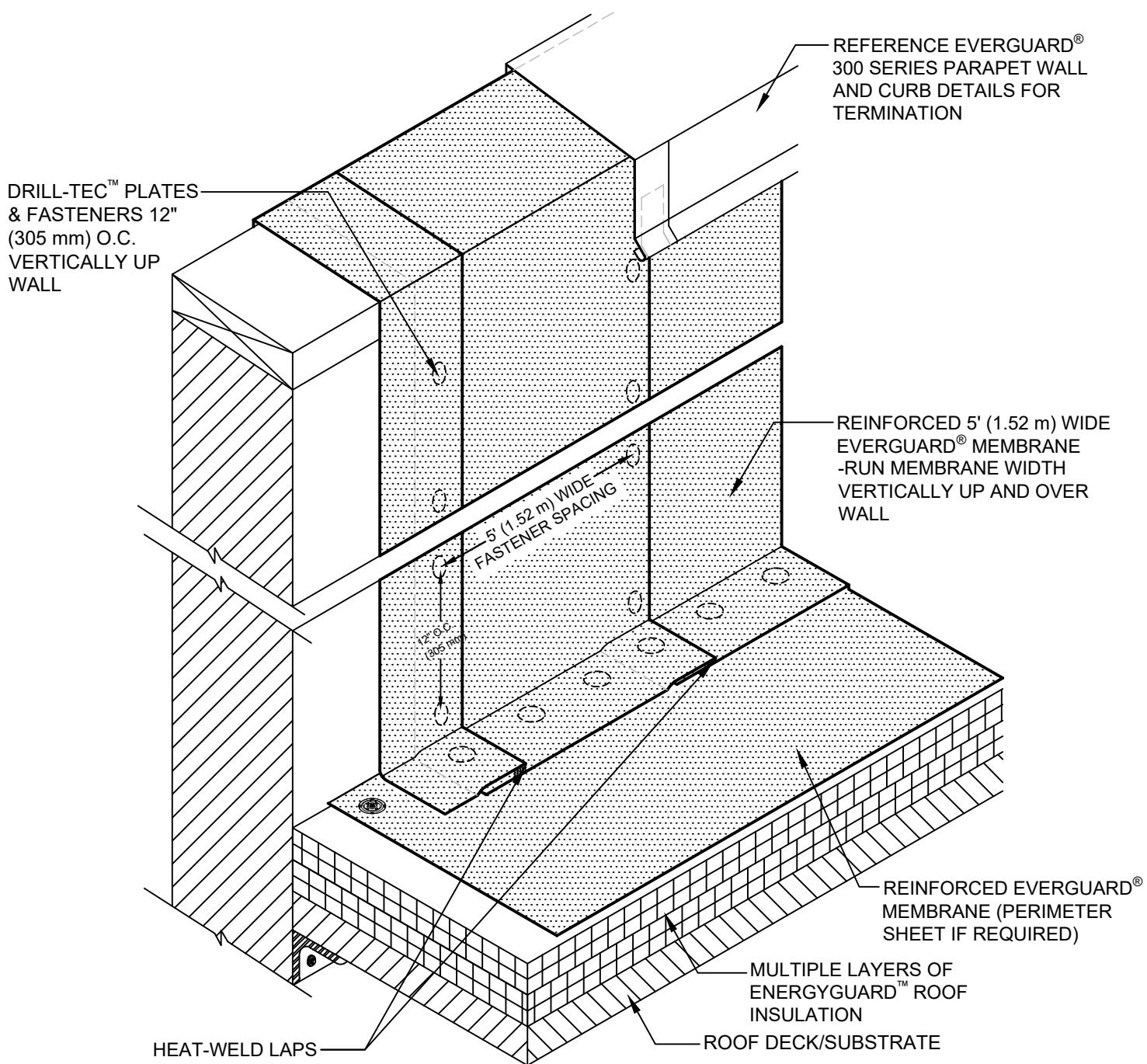
GAF

HIGH WALL FLASHING WITH 10' (3.05 m) WIDE SHEETS

DRAWING #
317AGAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411THIS DETAIL APPLIES TO:
ALL SYSTEMSISSUE / REVISION DATE
8/24/20SCALE
N.T.S.

LEGEND





NOTE:

1. WALL HEIGHTS OVER 10' (3.05 M) HIGH REQUIRE THE ENTIRE WALL TO BE FULLY ADHERED. UNDER 10' (3.05 m) CAN BE DRY HUNG WITHOUT ADHESIVE.

GAF

HIGH WALL FLASHING WITH 5' (1.52 m) WIDE SHEETS

DRAWING #
317B

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

8/24/20

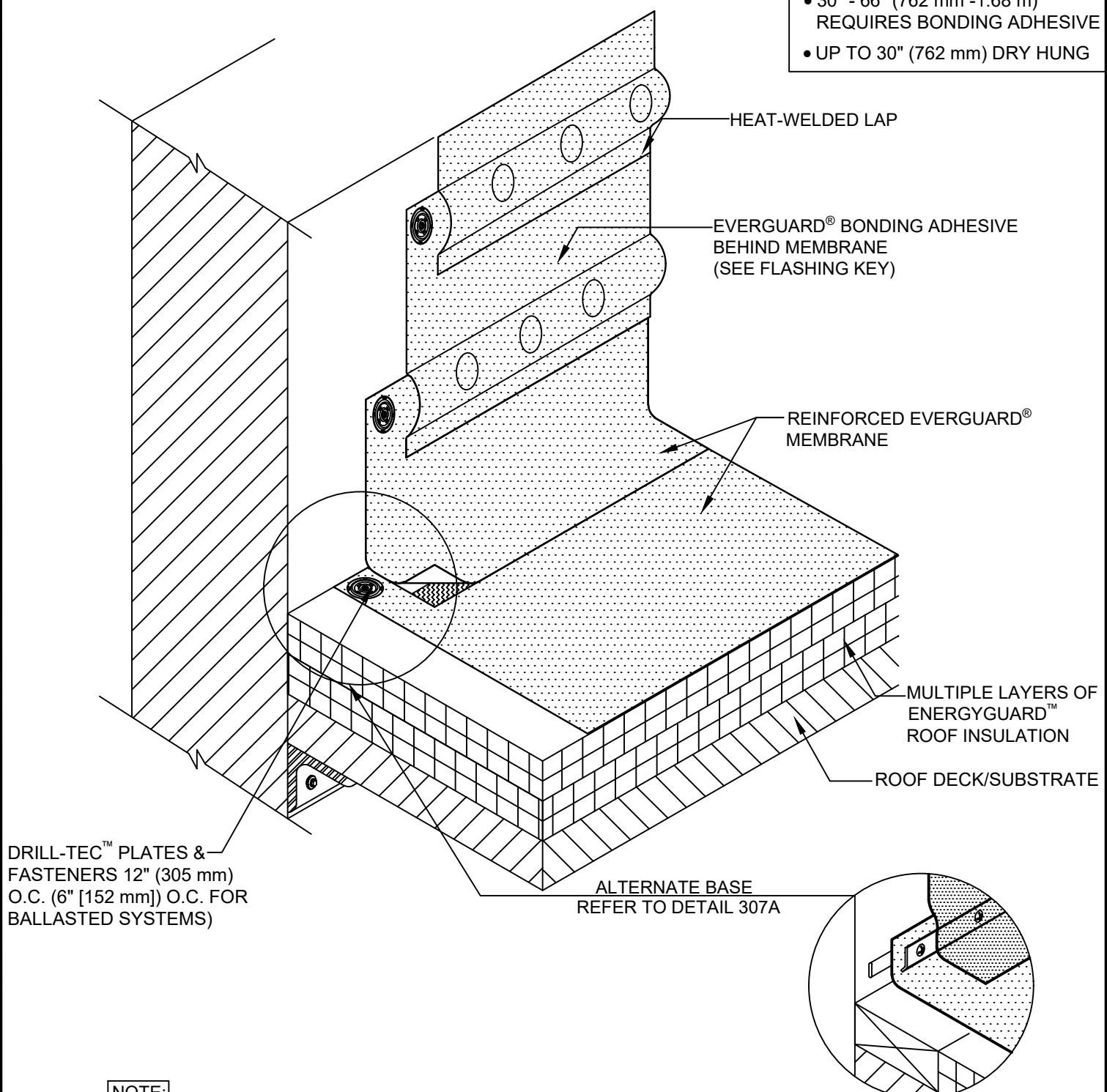
LEGEND


 HEAT-WELD LAP

SINGLE-PLY: TPO & PVC

FLASHING KEY

- 30" - 66" (762 mm - 1.68 m)
REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



GAF

HIGH WALL FLASHING WITH PLATES AND FASTENERS

DRAWING #
317C

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THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

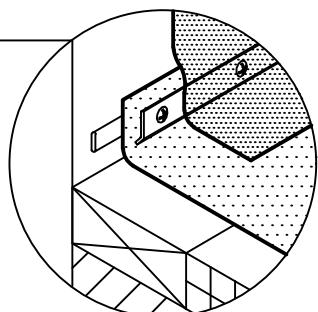
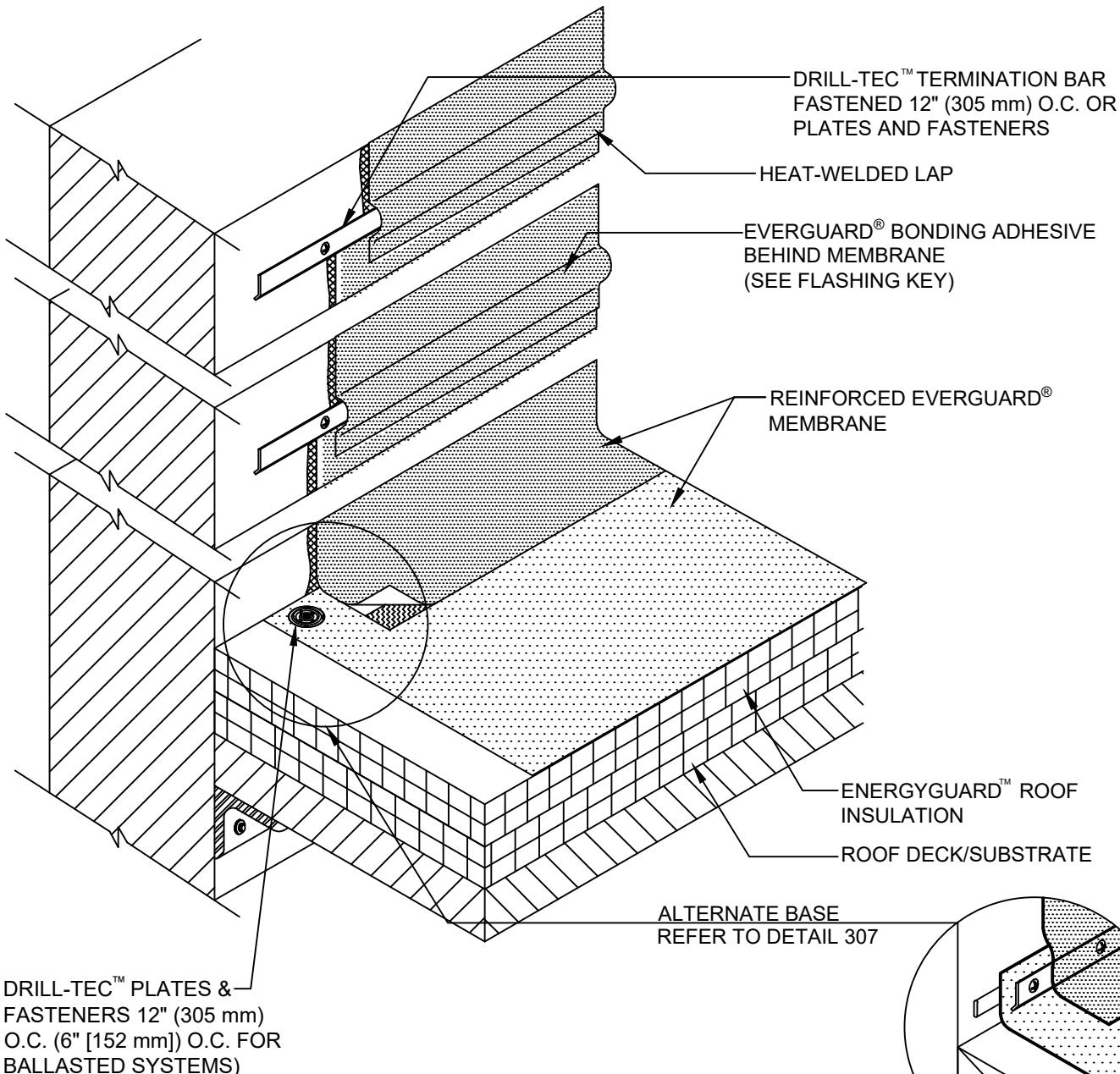
LEGEND

HEAT-WELDED LAPS

SINGLE-PLY: TPO & PVC

FLASHING KEY

- 30" - 66" (762 mm - 1.68 m) REQUIRES BONDING ADHESIVE
- UP TO 30" (762 mm) DRY HUNG



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY FASTENED SYSTEMS ONLY.
2. IF EVERGUARD® FREEDOM MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

HIGH WALL FLASHING WITH TERMINATION BAR

DRAWING #
317D

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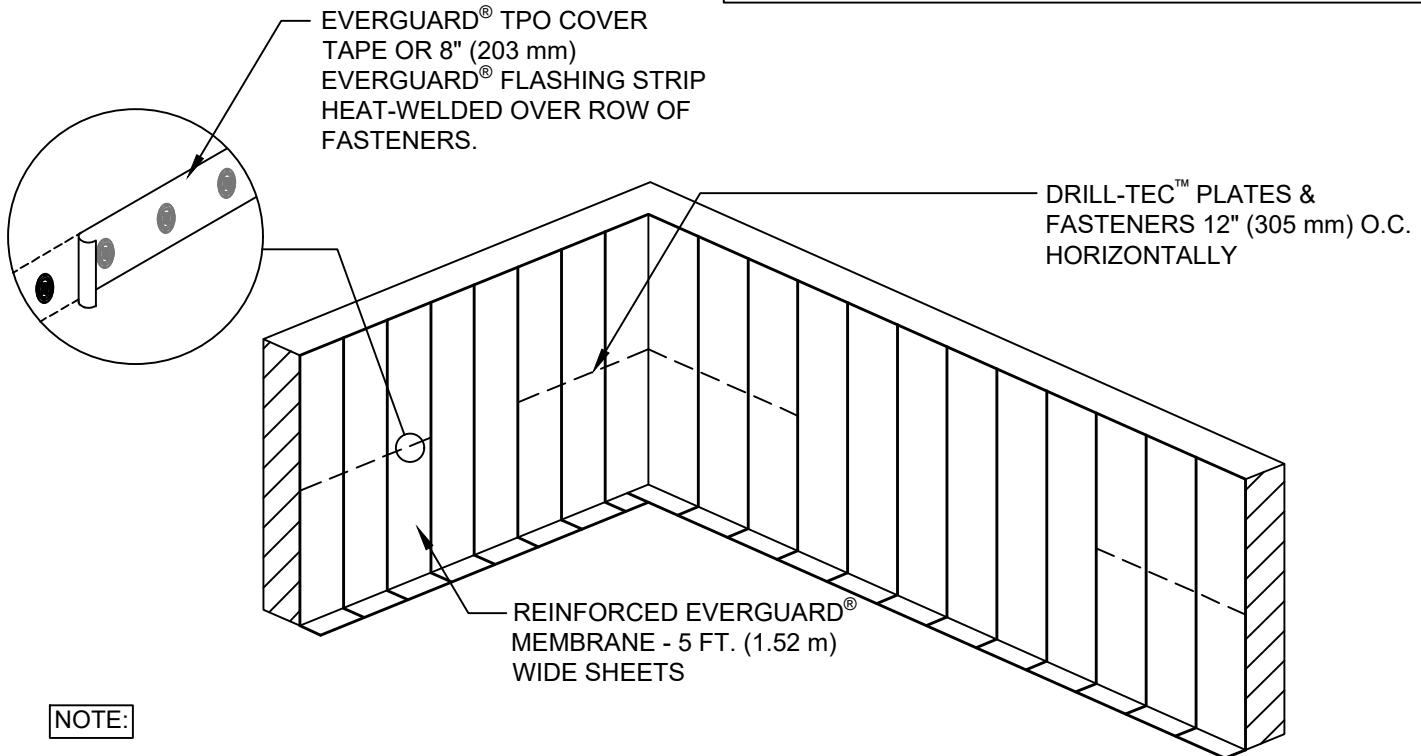
LEGEND

HEAT-WELDED LAP

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS | 8/24/20 | N.T.S. |

SINGLE-PLY: TPO & PVC

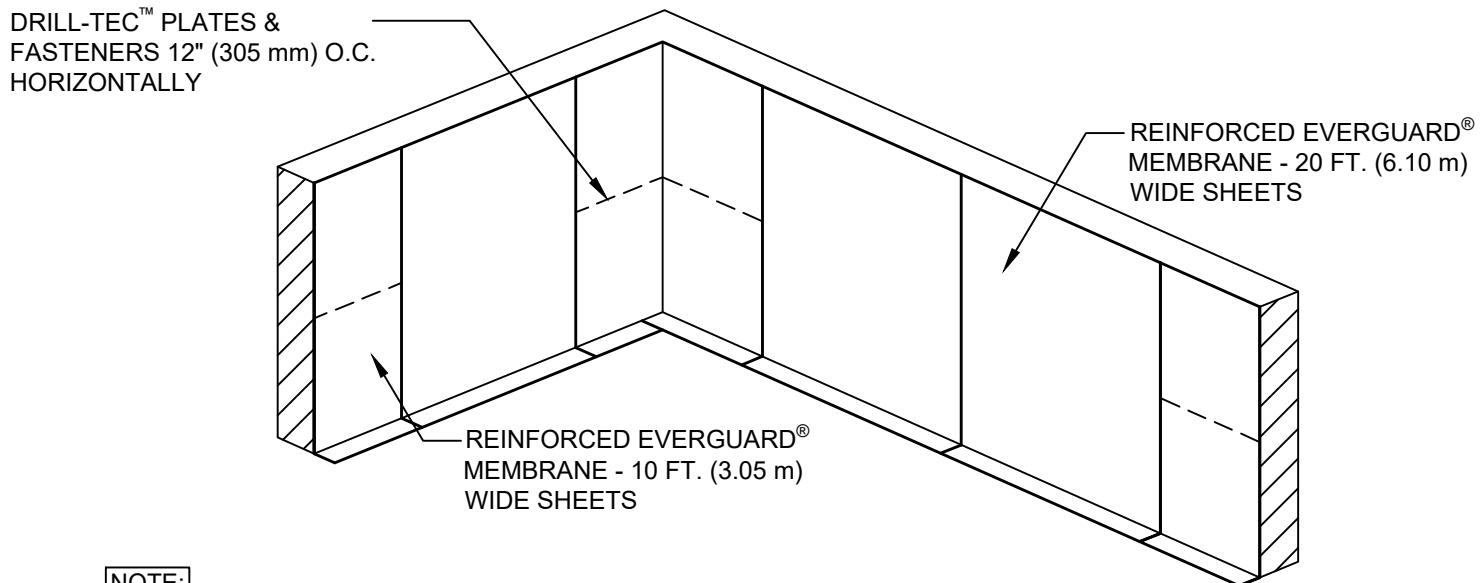
FOR 5' (1.52 m) WIDE SHEETS
REFERENCE EVERGUARD® DETAIL 317B



NOTE:

1. FIRST THREE SHEETS FROM THE CORNER AND FIRST THREE SHEETS FROM THE WALL EDGE REQUIRE A ROW OF DRILL-TEC™ PLATES AND FASTENERS 12" O.C. MID WAY UP THE WALL AS SHOWN.

FOR 10' (3.05 m) WIDE SHEETS
REFERENCE EVERGUARD® DETAIL 317A



NOTE:

1. FIRST SHEET FROM THE CORNER AND FIRST SHEET FROM THE WALL EDGE REQUIRE A ROW OF DRILL-TEC™ PLATES AND FASTENERS 12" O.C. MID WAY UP THE WALL AS SHOWN. CORNER AND EDGE SHEETS ARE 10' (3.05 m) ALL SHEETS IN BETWEEN ARE 20' (6.10 m) WIDE.

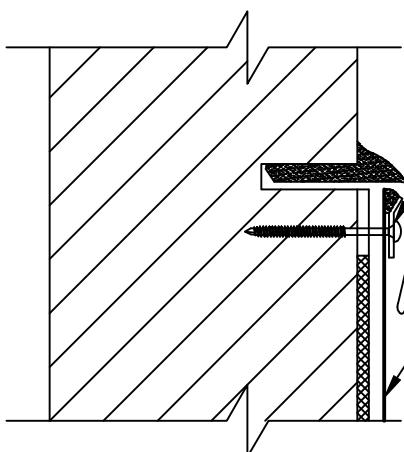


HIGH WALL FLASHING CORNER AND EDGE REINFORCEMENT

LEGEND

DRAWING #
317E

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS | 8/24/20 | N.T.S. |



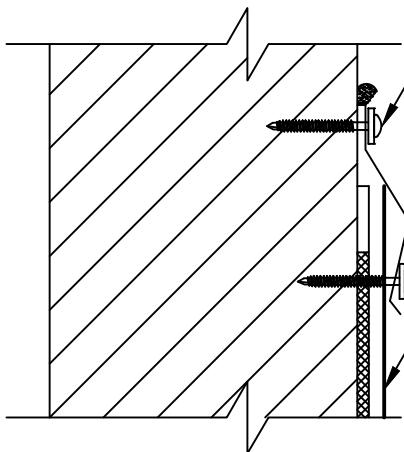
1. MECHANICAL TERMINATION

DRILL-TEC™ TERMINATION BAR FASTENED 12" (305 mm) O.C.
(OPTIONAL)

METAL COUNTERFLASHING (MAY BE FACE MOUNTED ALSO)

REINFORCED EVERGUARD® MEMBRANE

NOTE: EXISTING COUNTERFLASHING MUST BE IN GOOD
WORKABLE CONDITION AND TIGHT TO WALL.



2. MECHANICAL TERMINATION

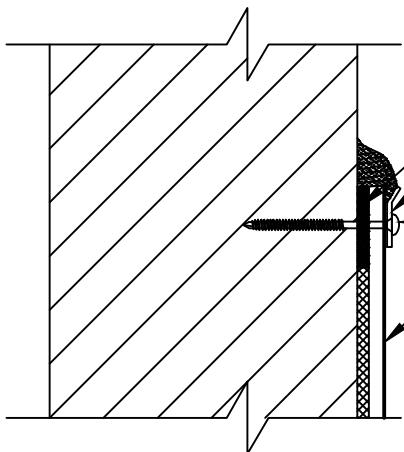
DRILL-TEC™ FASTENERS AND SEALING WASHERS 12" (305 mm) O.C.

METAL SURFACE MOUNTED COUNTERFLASHING

DRILL-TEC™ FASTENERS AND SEALING WASHERS 12" (305 mm) O.C.

REINFORCED EVERGUARD® MEMBRANE

NOTE: EXISTING COUNTERFLASHING MUST BE IN GOOD
WORKABLE CONDITION AND TIGHT TO WALL.



3. MECHANICAL TERMINATION (20-YR MAX GUARANTEE)

EVERGUARD® WATER-BLOCK OR FLEXSEAL™ CAULK GRADE
SEALANT

DRILL-TEC™ TERMINATION BAR

DRILL-TEC™ FASTENERS AND SEALING WASHERS 6" (152 mm) O.C.

REINFORCED EVERGUARD® MEMBRANE



WALL TERMINATION 1-3

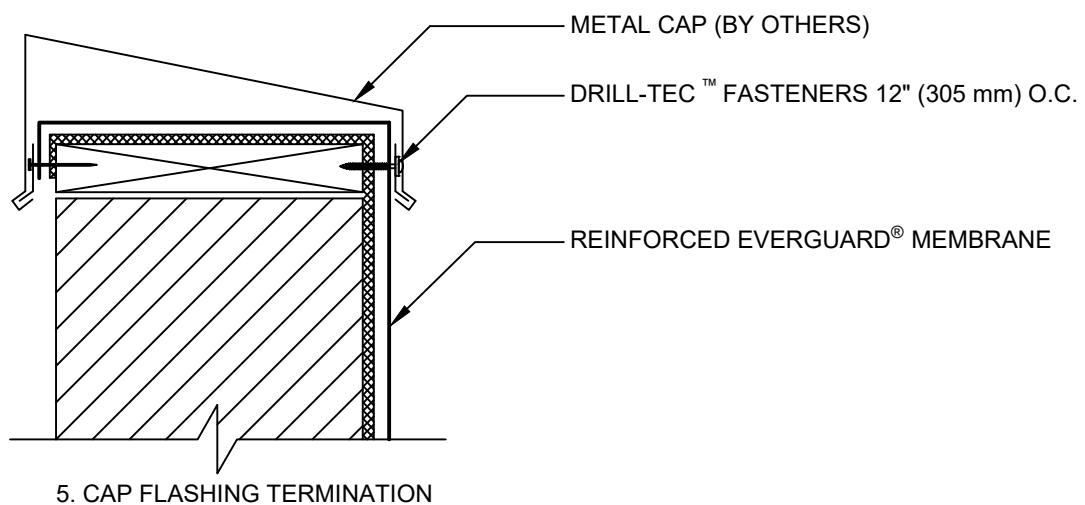
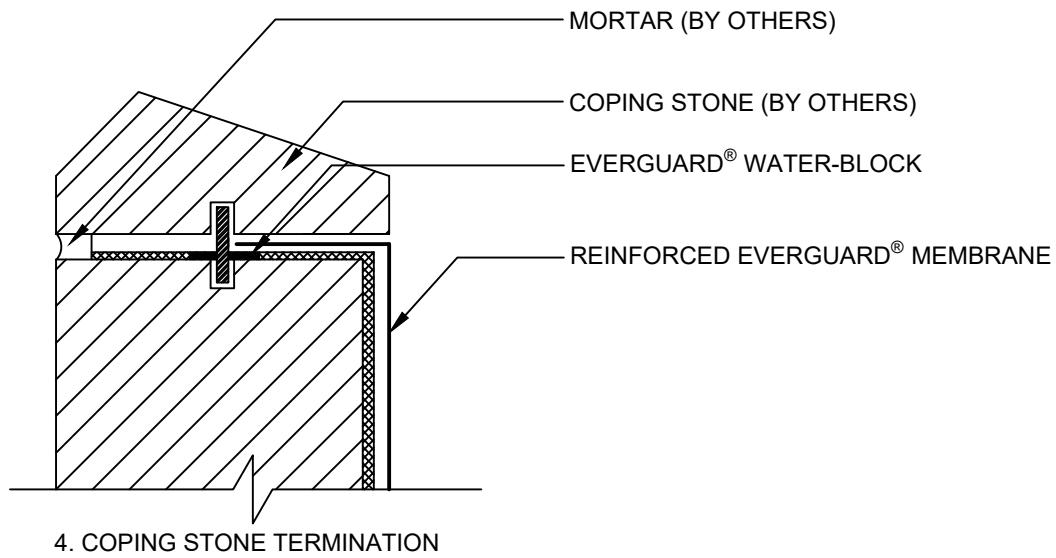
DRAWING #
318A

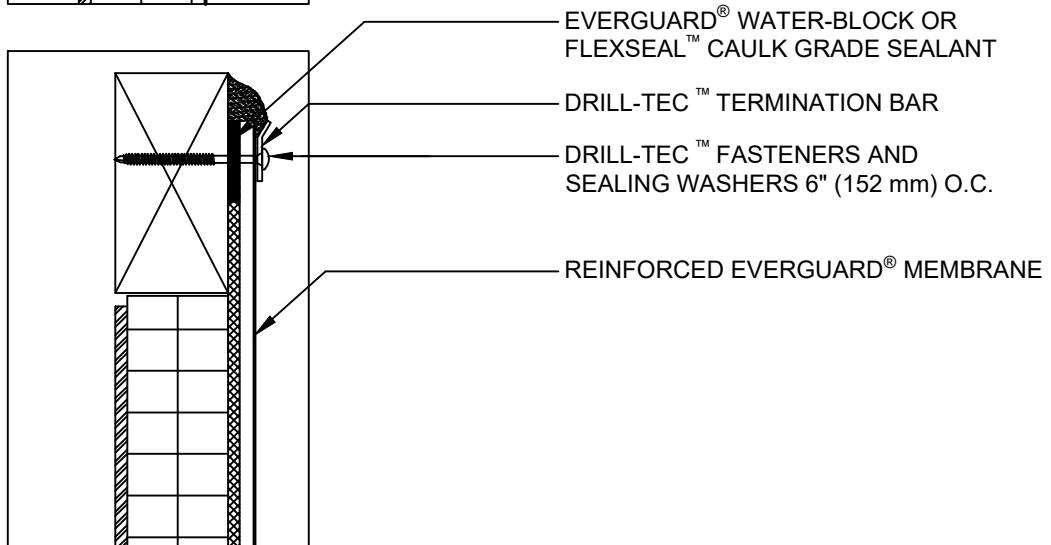
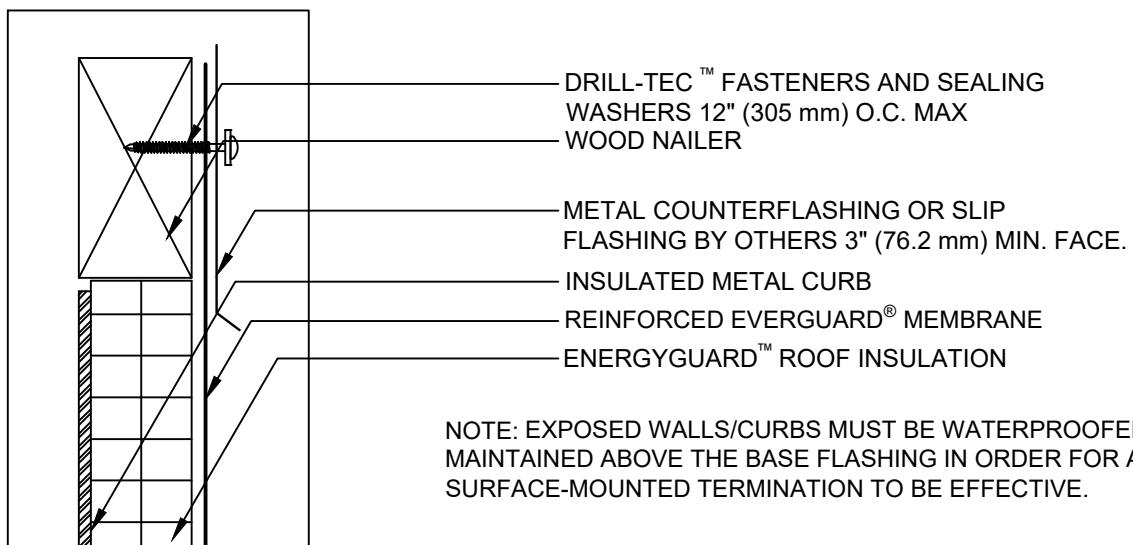
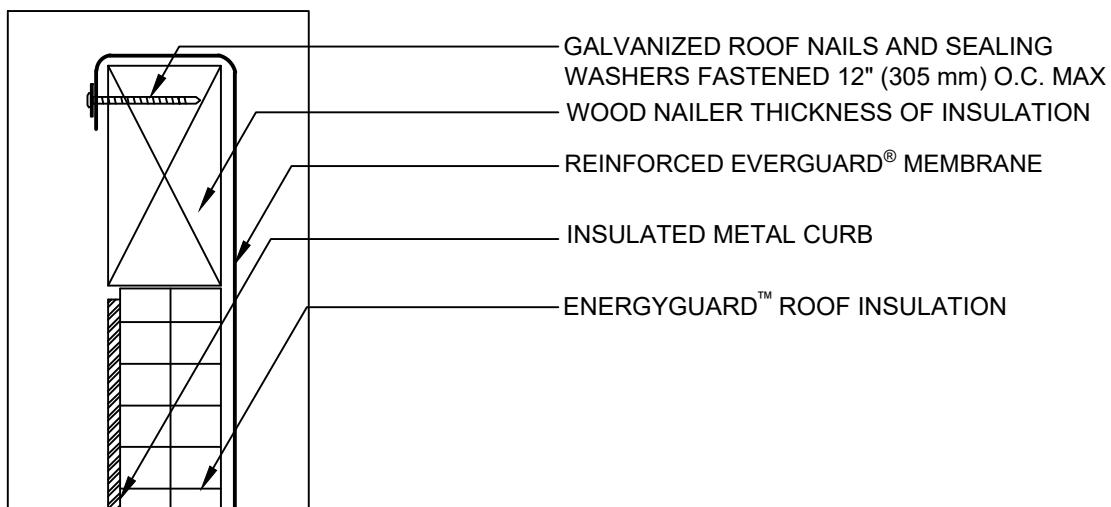
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/24/20

LEGEND

EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30° (762 mm) FLASHING HEIGHT
FLEXSEAL™ CAULK GRADE SEALANT





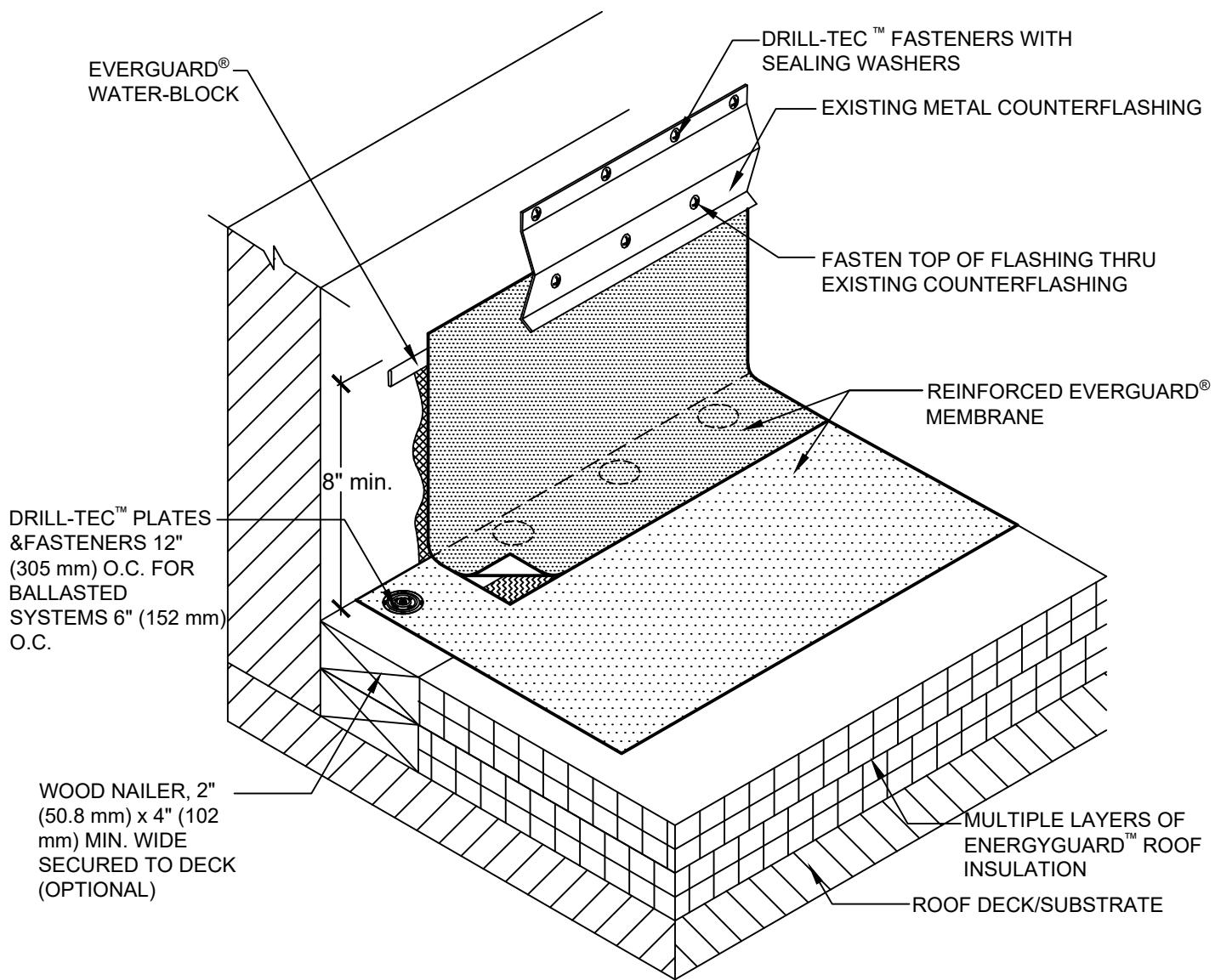
SKYLIGHT NON-STANDARD CURB TERMINATION

DRAWING #
318D

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS | 8/24/20 | N.T.S. |

LEGEND

EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30° (762 mm) FLASHING HEIGHT
 FLEXSEAL™ CAULK GRADE SEALANT



NOTE:

1. ADD BALLAST PER SPEC FOR BALLASTED SYSTEMS.
2. EXPOSED WALLS/CURBS MUST BE WATERPROOFED AND MAINTAINED ABOVE THE BASE FLASHING IN ORDER FOR ANY SURFACE-MOUNTED TERMINATION TO BE EFFECTIVE.

GAF

WALL FLASHING WITH EXISTING COUNTERFLASHING

DRAWING #
319

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/24/20

SCALE

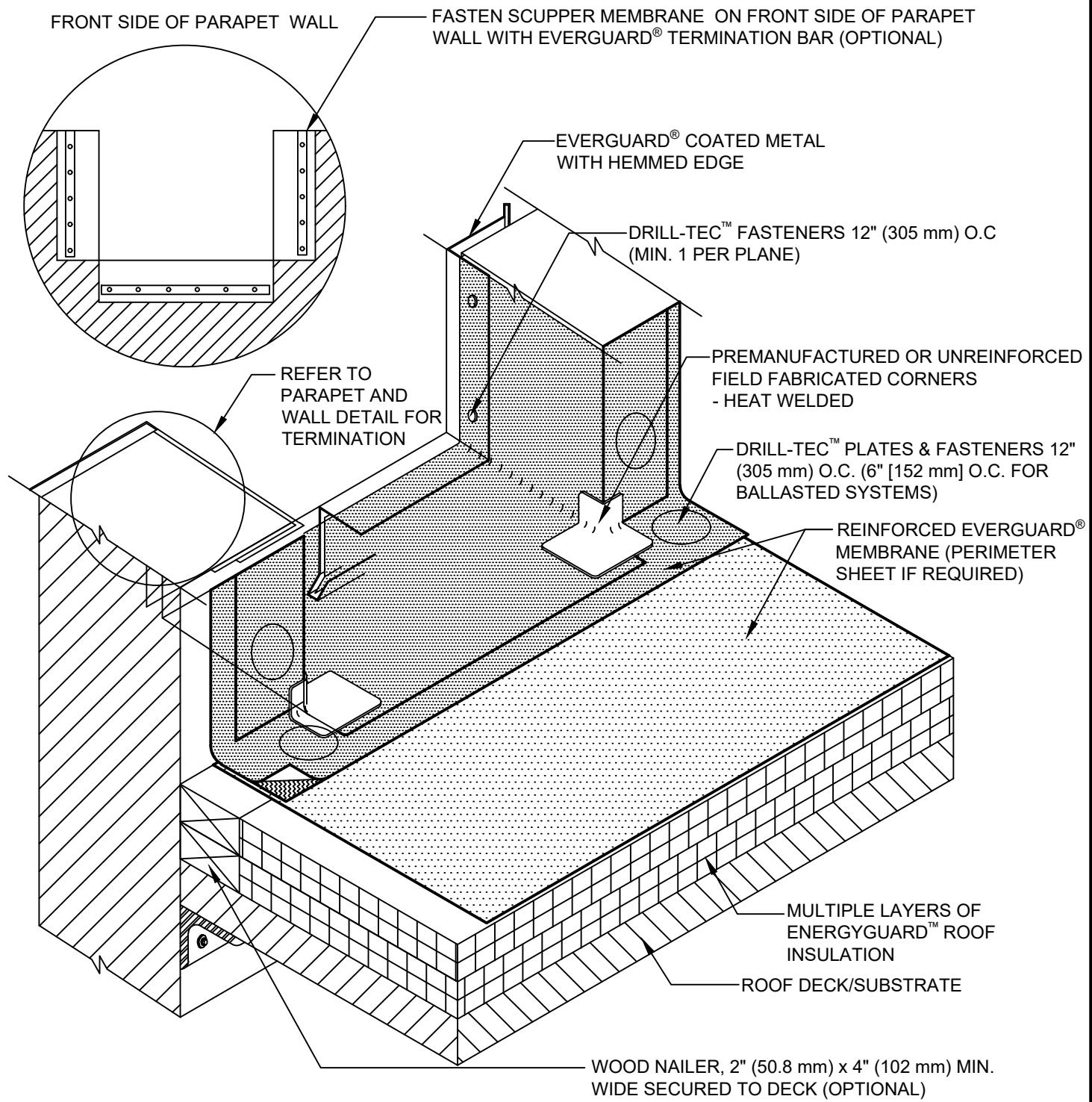
N.T.S.

LEGEND

HEAT-WELDED

EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30° (762 mm) FLASHING HEIGHT

SINGLE-PLY: TPO & PVC



NOTE:

1. DETAIL TO BE USED IN CONJUNCTION WITH STANDARD GUIDE SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.

GAF

SCUPPER - FIELD FABRICATED OPEN TOP

DRAWING #
322

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/24/20

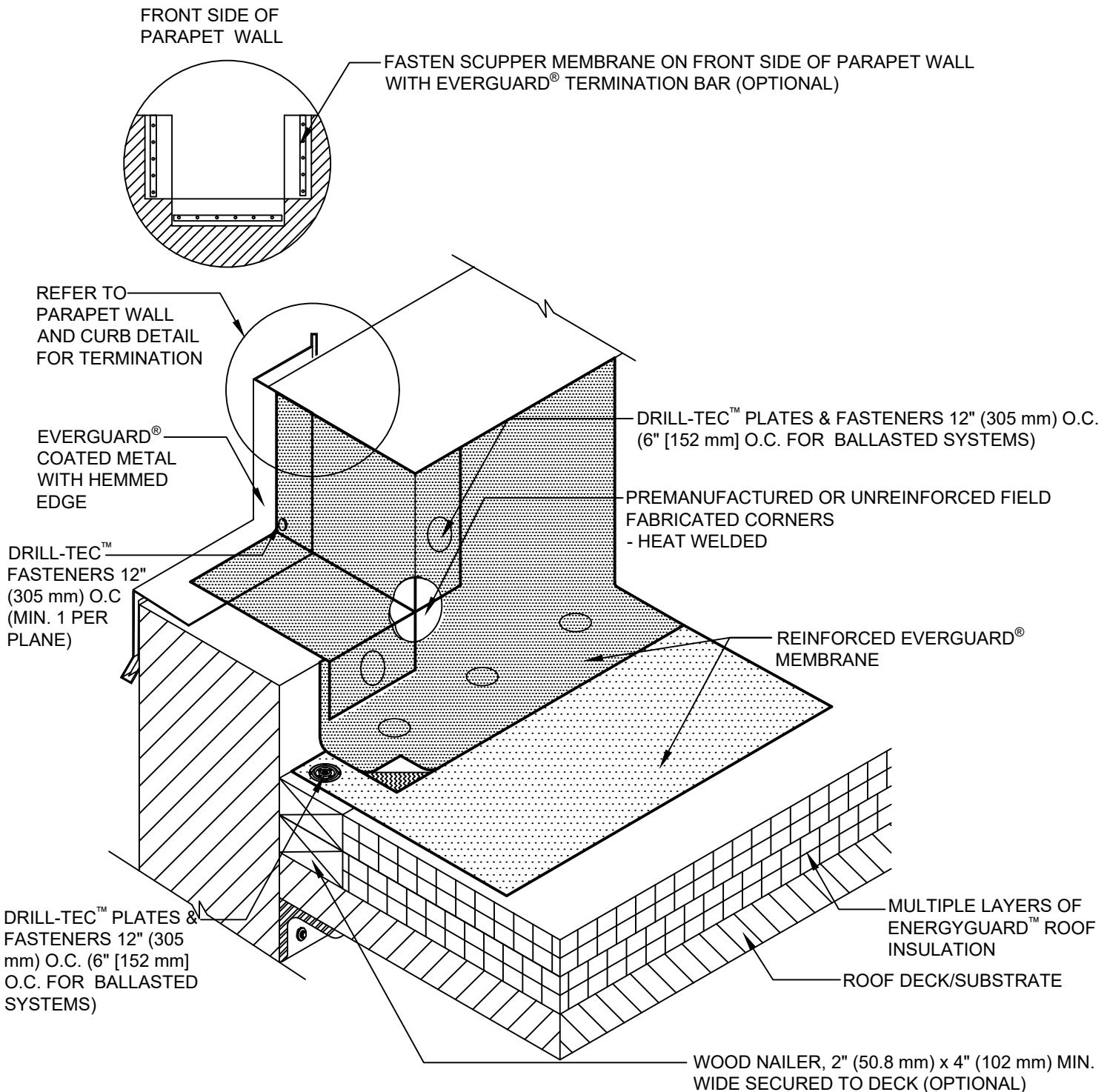
SCALE

N.T.S.

LEGEND

HEAT-WELDED

SINGLE-PLY: TPO & PVC



NOTE:

1. DETAIL TO BE USED IN CONJUNCTION WITH STANDARD GUIDE SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. IF EVERGUARD® FREEDOM™ MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

SCUPPER - FIELD FABRICATED OPEN TOP - OVERFLOW

DRAWING #
323

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

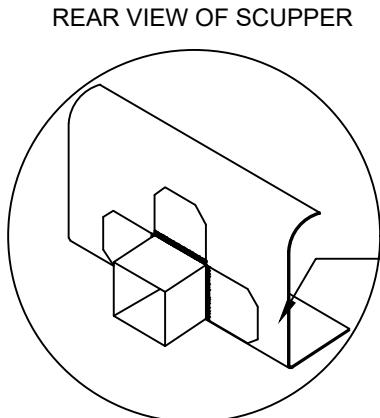
8/24/20

SCALE

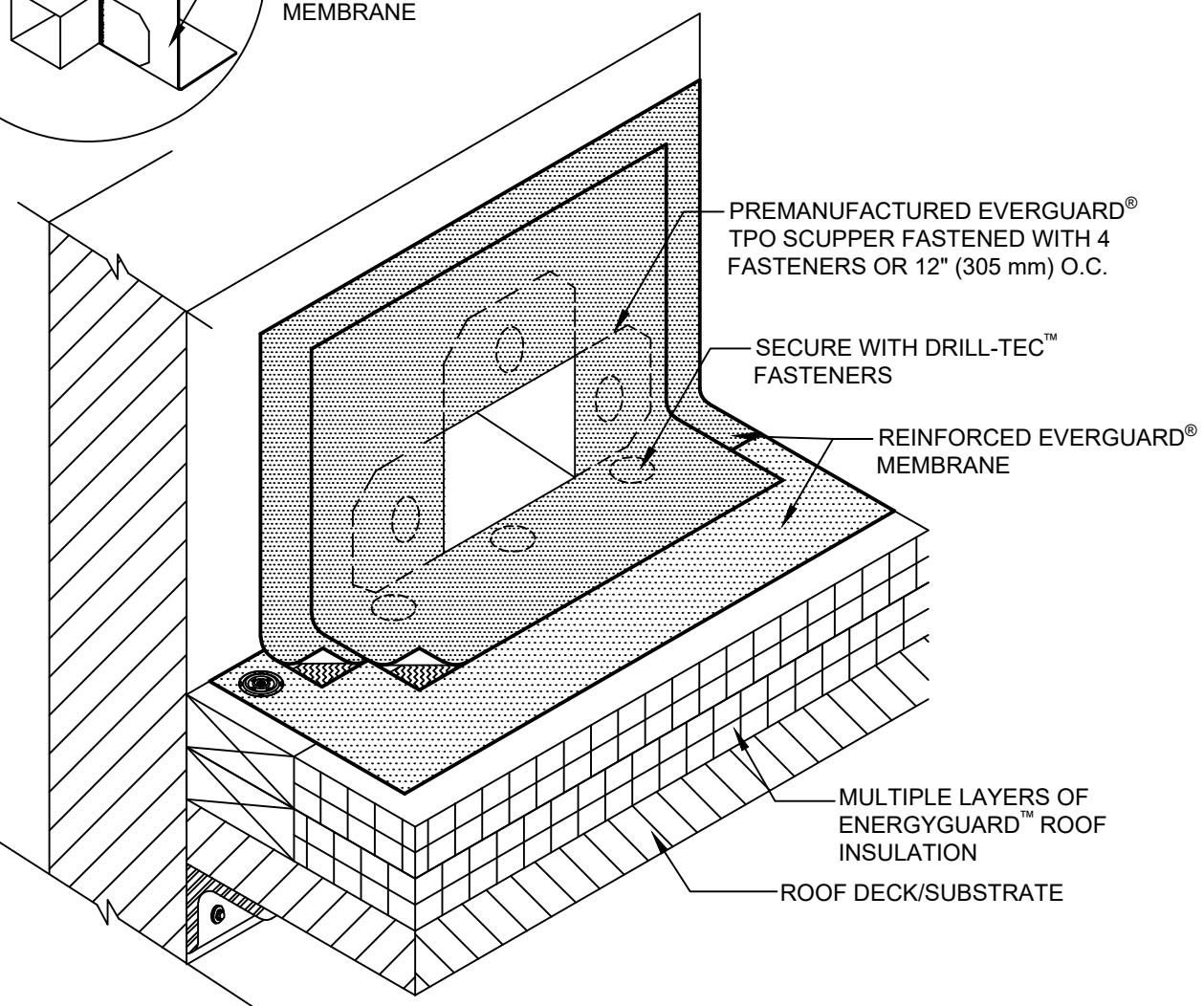
N.T.S.

LEGEND

 HEAT-WELDED



REAR VIEW OF SCUPPER



NOTE:

1. DETAIL TO BE USED IN CONJUNCTION WITH STANDARD GUIDE SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.
4. SCUPPER MUST ALSO BE SEALED ON OUTSIDE WALL.
5. FOR ALTERNATE BASE ATTACHMENT, REFER TO EVERGUARD® DETAIL 307A.

GAF

SCUPPER - PREMANUFACTURED

DRAWING #
324A

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

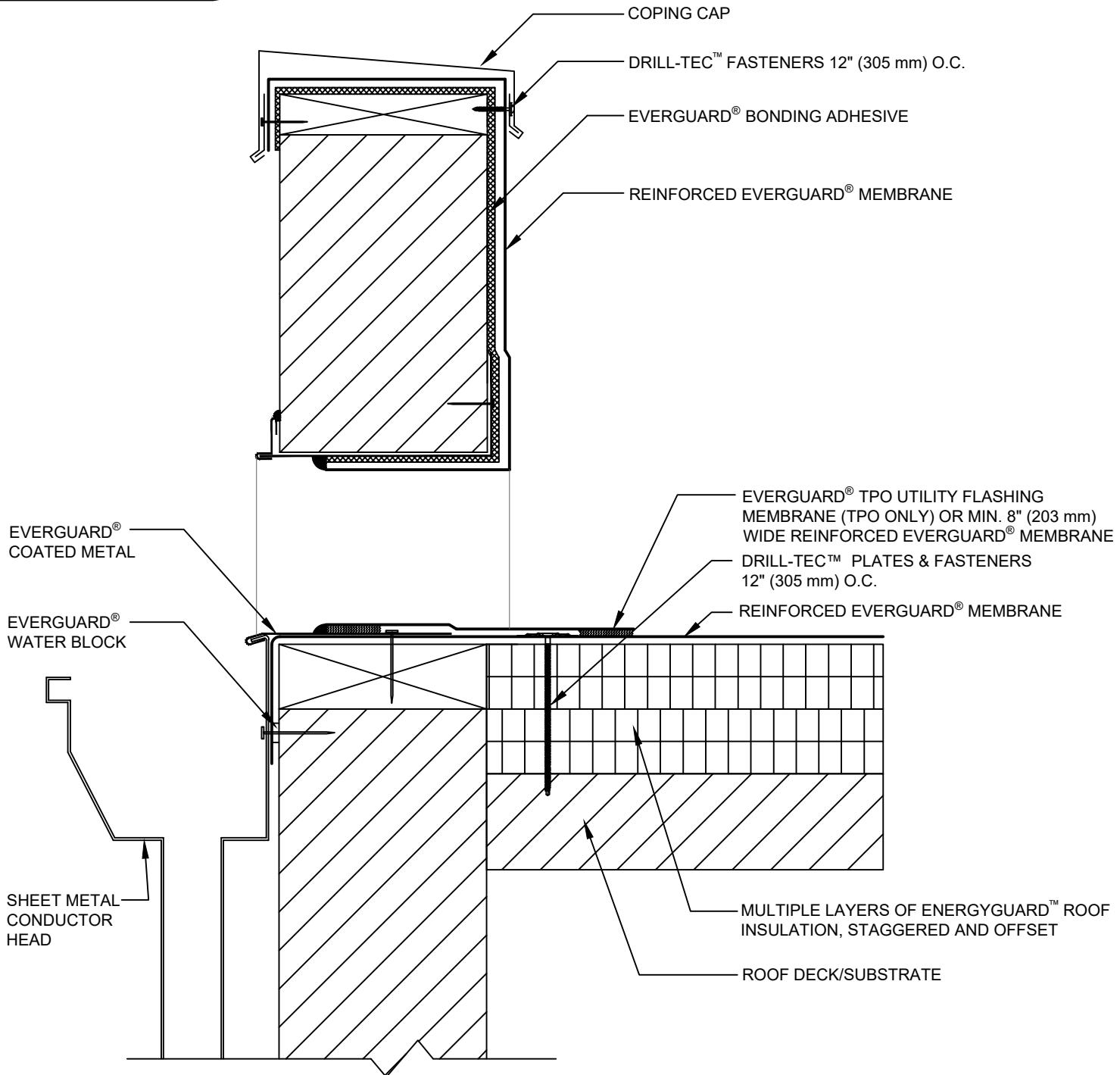
8/24/20

N.T.S.

LEGEND

 HEAT-WELDED

SINGLE-PLY: TPO & PVC



NOTE:

1. DETAIL TO BE USED IN CONJUNCTION WITH STANDARD GUIDE SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.
4. SCUPPER MUST ALSO BE SEALED ON OUTSIDE WALL.

GAF

COATED METAL SCUPPER THROUGH WALL

DRAWING #
324C

THIS DETAIL APPLIES TO:
ADHERED SYSTEMS
MECHANICALLY ATTACHED SYSTEMS
RHINOBOND® SYSTEMS

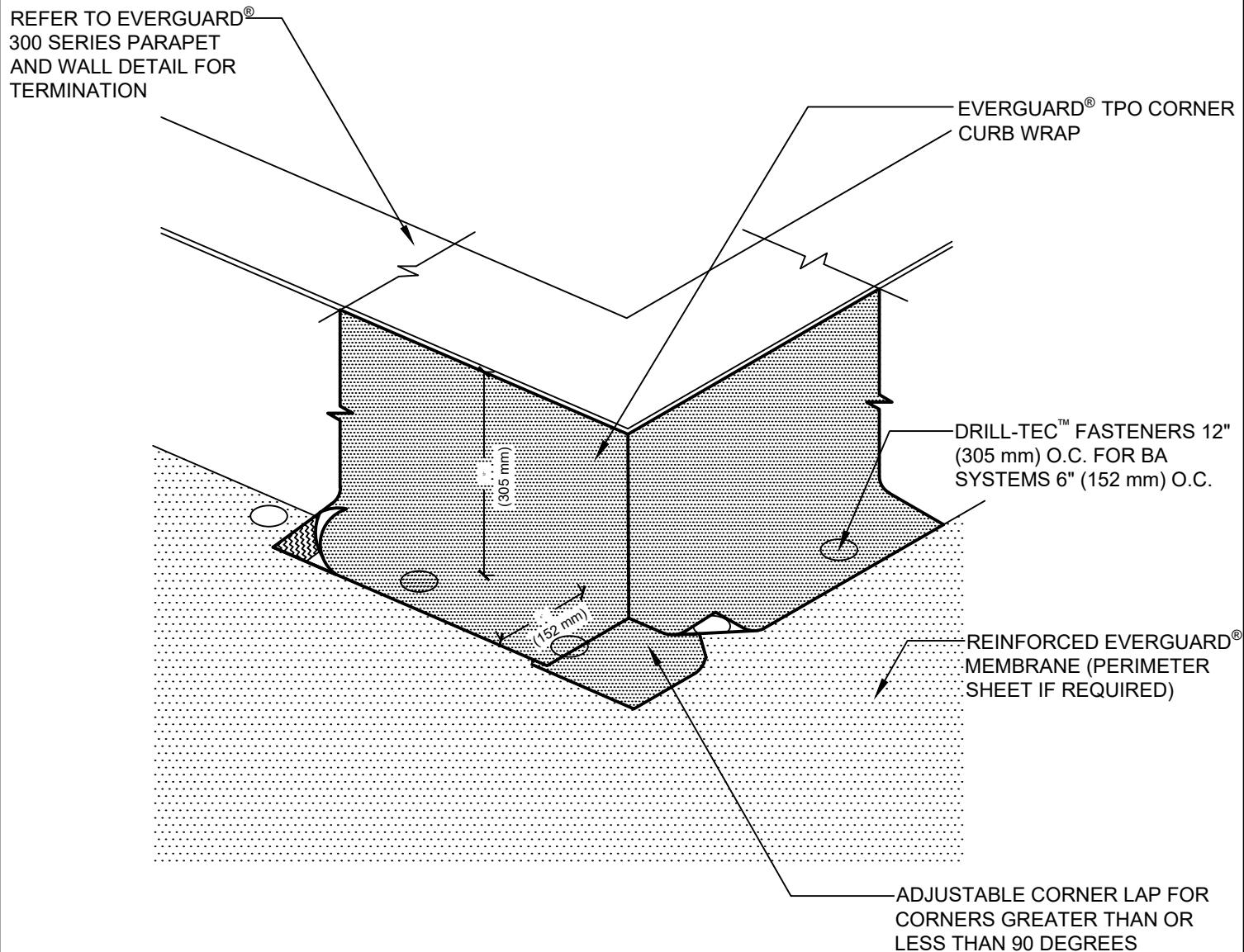
ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT



NOTE:

1. FOUR CORNER CURB WRAP PIECES ARE NEEDED TO COMPLETE. VARYING SIZES MAY BE NEEDED.
2. CORNER WRAP MAY BE ADHERED OR INSTALLED DRY.
3. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.

GAF

CORNER CURB WRAP

LEGEND

HEAT-WELDED

DRAWING #
325

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

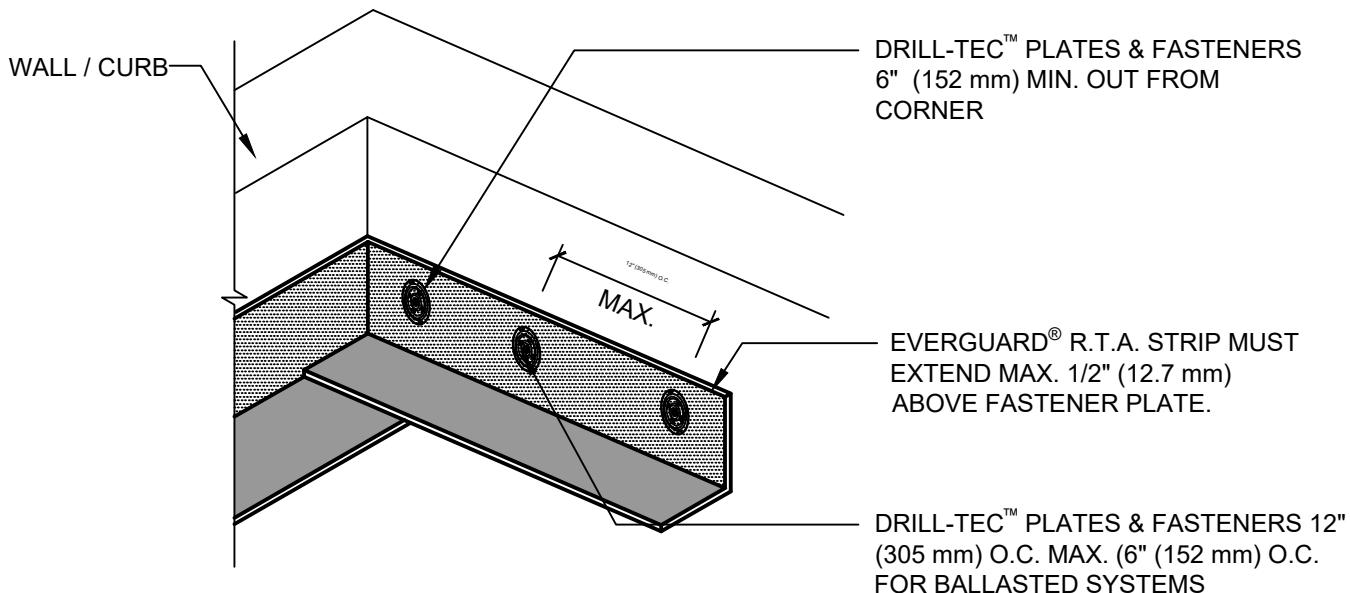
SCALE

ALL SYSTEMS

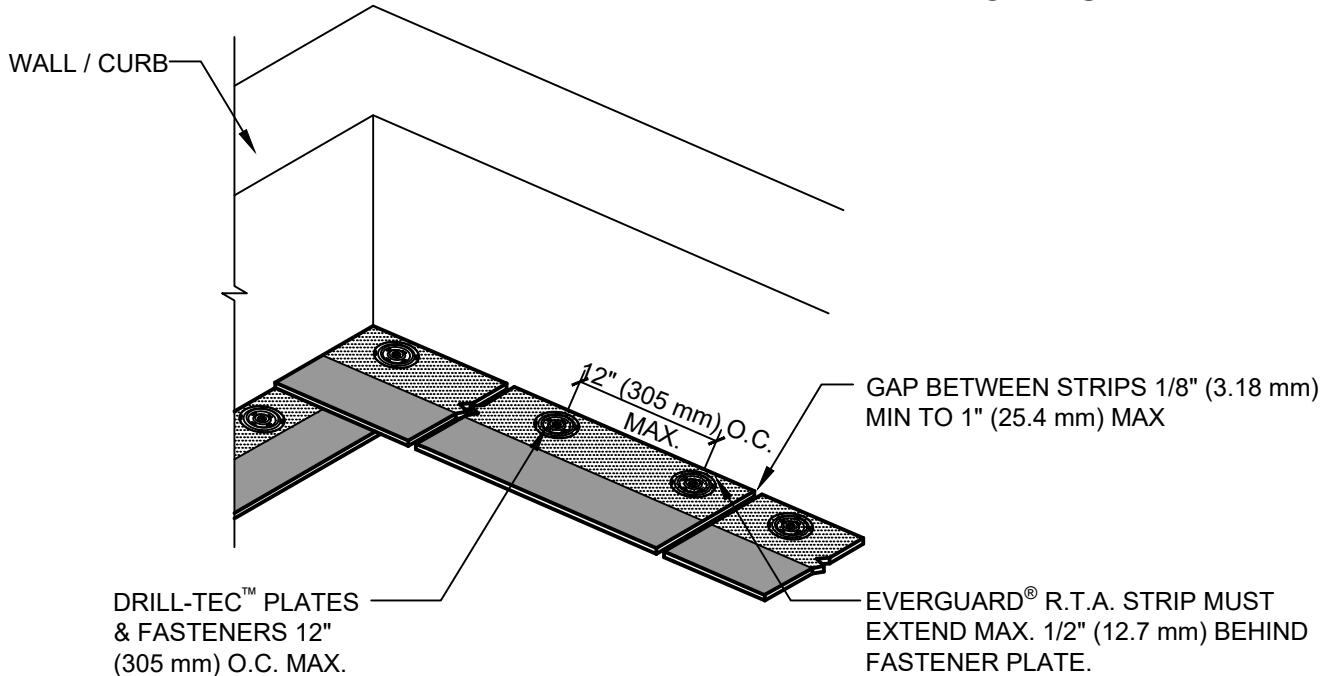
8/24/20

N.T.S.

FASTENED TO WALL / CURB



FASTENED TO DECK



NOTE:

1. THIS DETAIL IS NOT TO BE USED FOR EVERGUARD® PVC MEMBRANES OR MECHANICALLY ATTACHED SYSTEMS.
2. R.T.A. STRIP MAY BE FIELD FABRICATED OUT OF EVERGUARD® FREEDOM MEMBRANE (REMOVE FILM BEFORE INSTALLING WALL FLASHING SHEET).
3. COMMON FASTENER ANCHORING THE OVERLAP OF THE TWO STRIPS IN THE CORNER.

GAF

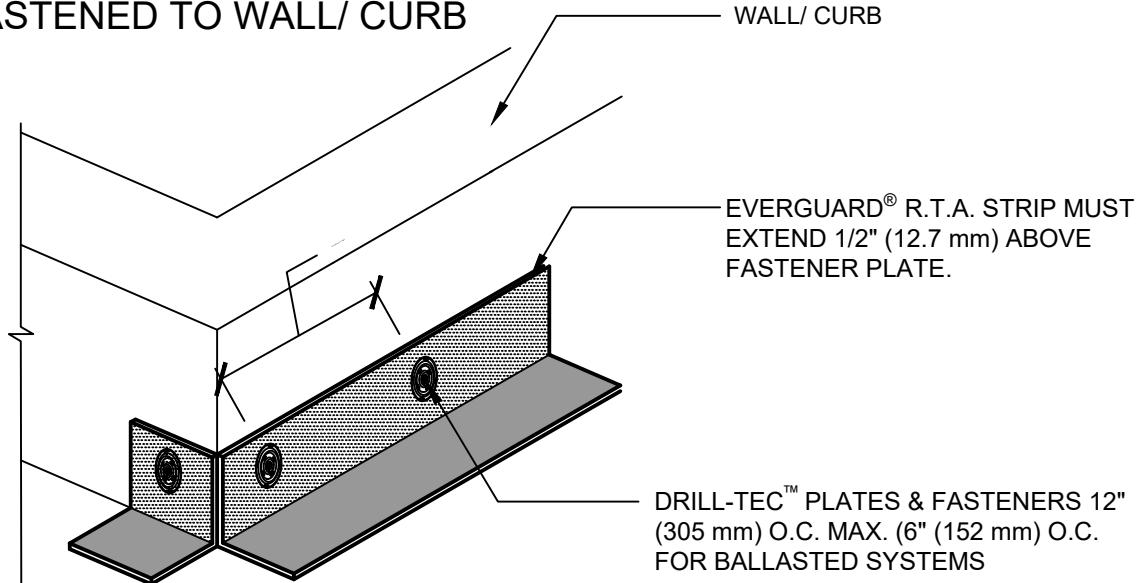
R.T.A. STRIP
- INSIDE CORNER REINFORCEMENT

DRAWING #
326A

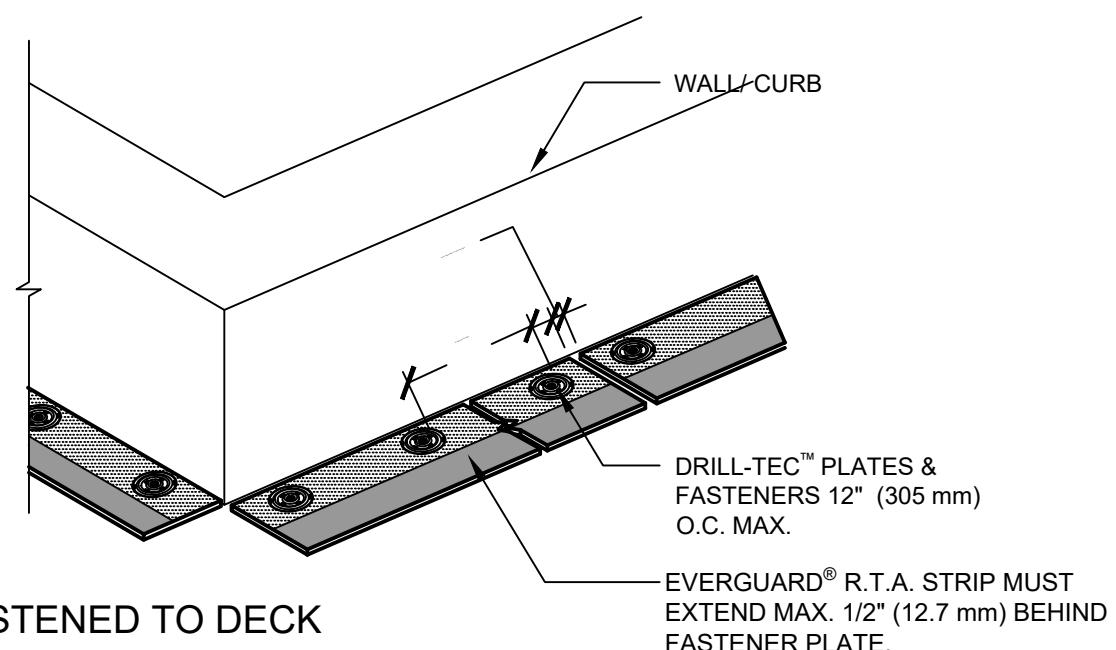
LEGEND

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|--|-----------------------|--------|
| ADHERED SYSTEMS
BALLASTED SYSTEMS
SELF-ADHERED SYSTEMS | 8/24/20 | N.T.S. |

FASTENED TO WALL/ CURB



FASTENED TO DECK



NOTE:

1. THIS DETAIL IS NOT TO BE USED FOR EVERGUARD® PVC MEMBRANES OR MECHANICALLY ATTACHED SYSTEMS.
2. R.T.A. STRIP MAY BE FIELD FABRICATED OUT OF EVERGUARD® FREEDOM MEMBRANE (REMOVE FILM BEFORE INSTALLING WALL FLASHING SHEET).
3. COMMON FASTENER ANCHORING THE OVERLAP OF THE TWO STRIPS IN THE CORNER.

GAF

R.T.A. STRIP
- OUTSIDE CORNER REINFORCEMENT

DRAWING #
326B

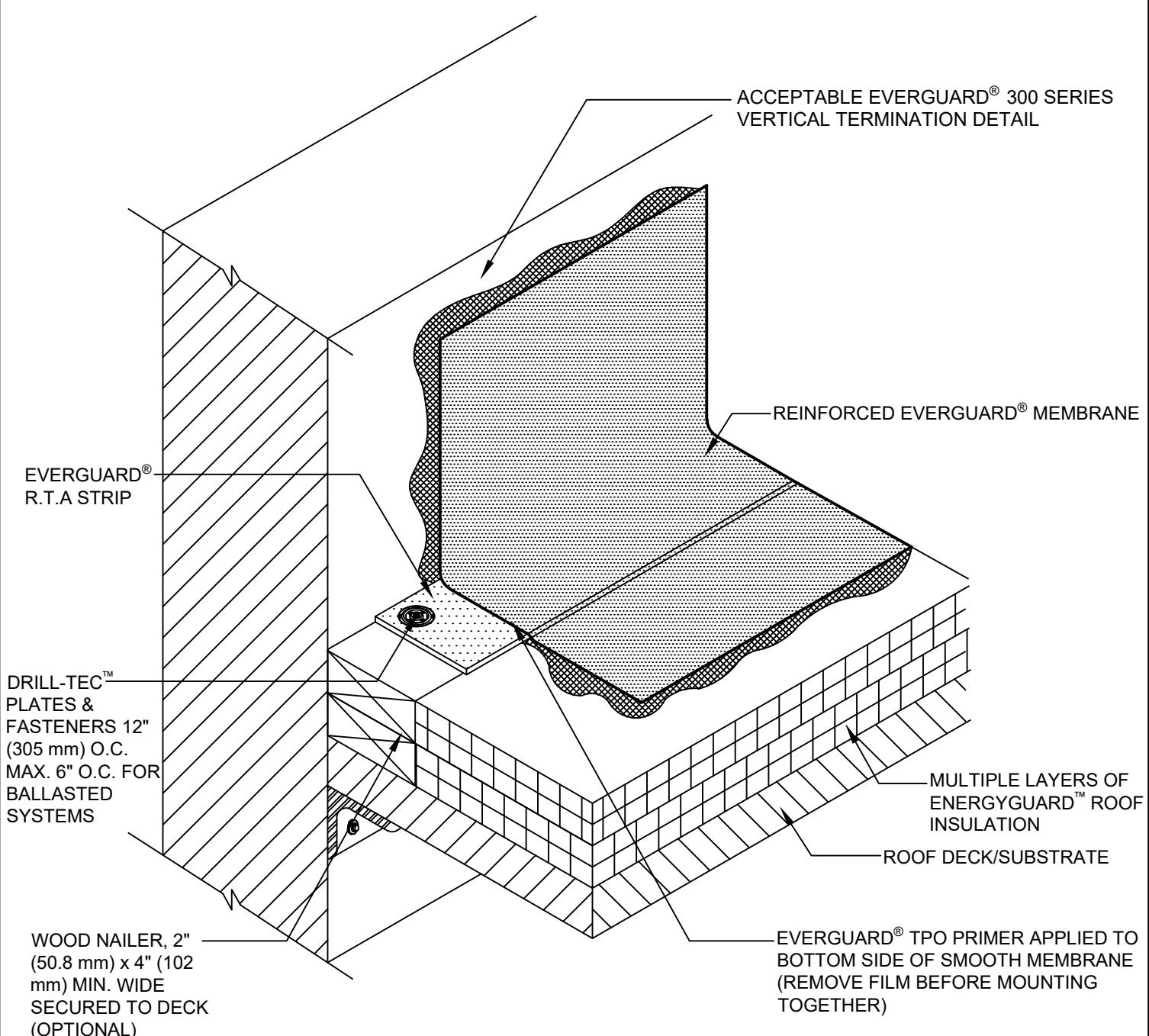
THIS DETAIL APPLIES TO:
ADHERED SYSTEMS
BALLASTED SYSTEMS
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

LEGEND

SINGLE-PLY: TPO
Smooth membranes



NOTE:

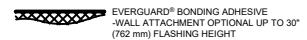
1. THIS DETAIL IS NOT TO BE USED FOR EVERGUARD® PVC MEMBRANES OR MECHANICALLY ATTACHED SYSTEMS.
2. R.T.A. STRIP MAY BE FIELD FABRICATED OUT OF EVERGUARD® FREEDOM MEMBRANE (REMOVE FILM BEFORE INSTALLING WALL FLASHING SHEET).
3. COMMON FASTENER ANCHORING THE OVERLAP OF THE TWO STRIPS IN THE CORNER.

GAF

R.T.A. STRIP
- BASE TIE-IN

DRAWING #
326C

LEGEND

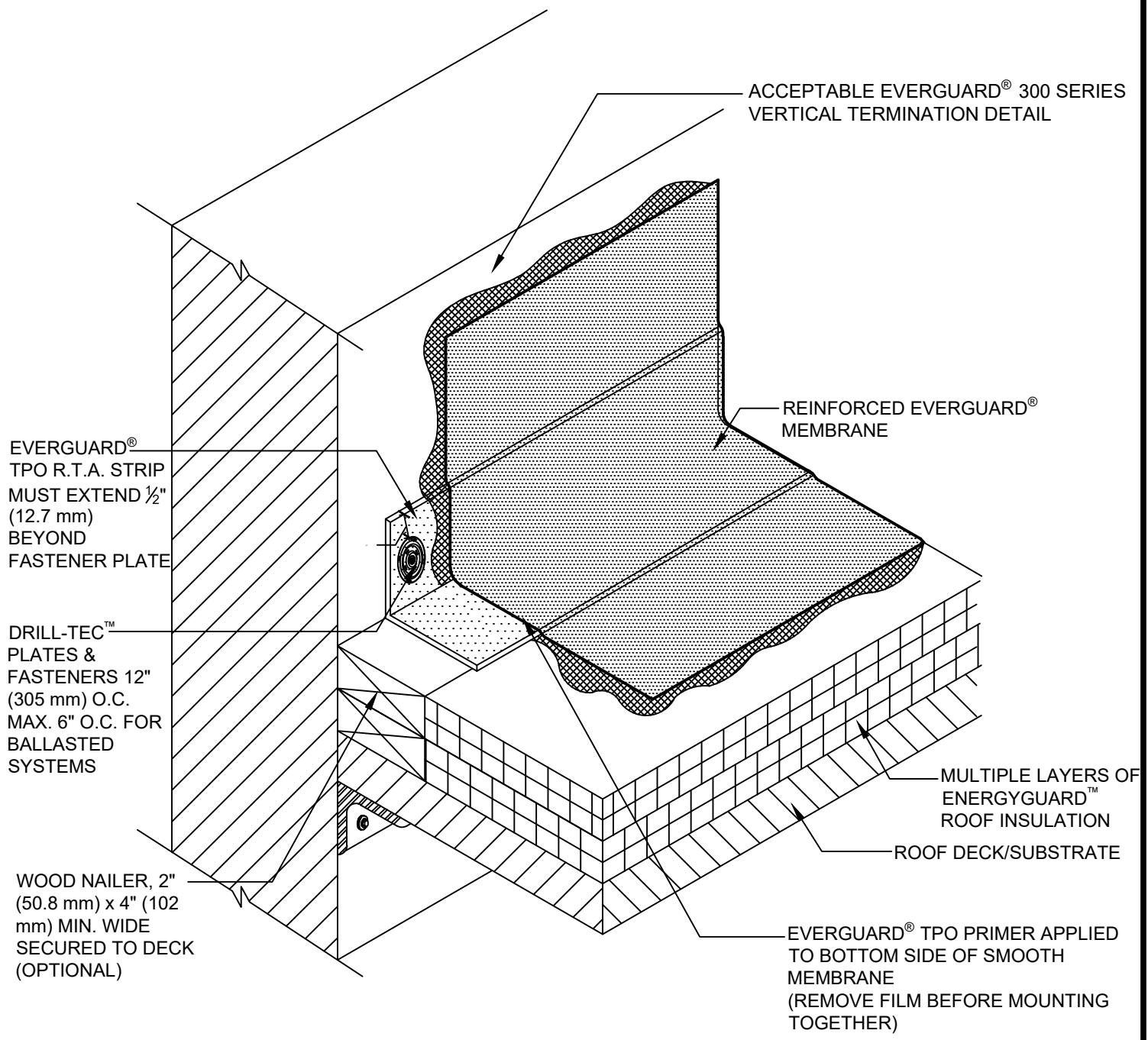


THIS DETAIL APPLIES TO:
ADHERED SYSTEMS
BALLASTED SYSTEMS
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

SINGLE-PLY: TPO
Smooth membranes



NOTE:

1. THIS DETAIL IS NOT TO BE USED FOR EVERGUARD® PVC MEMBRANES OR MECHANICALLY ATTACHED SYSTEMS.
2. R.T.A. STRIP MAY BE FIELD FABRICATED OUT OF EVERGUARD® FREEDOM MEMBRANE (REMOVE FILM BEFORE INSTALLING WALL FLASHING SHEET).
3. COMMON FASTENER ANCHORING THE OVERLAP OF THE TWO STRIPS IN THE CORNER.

GAF

R.T.A. STRIP
- ALTERNATE BASE TIE-IN

DRAWING #
326D

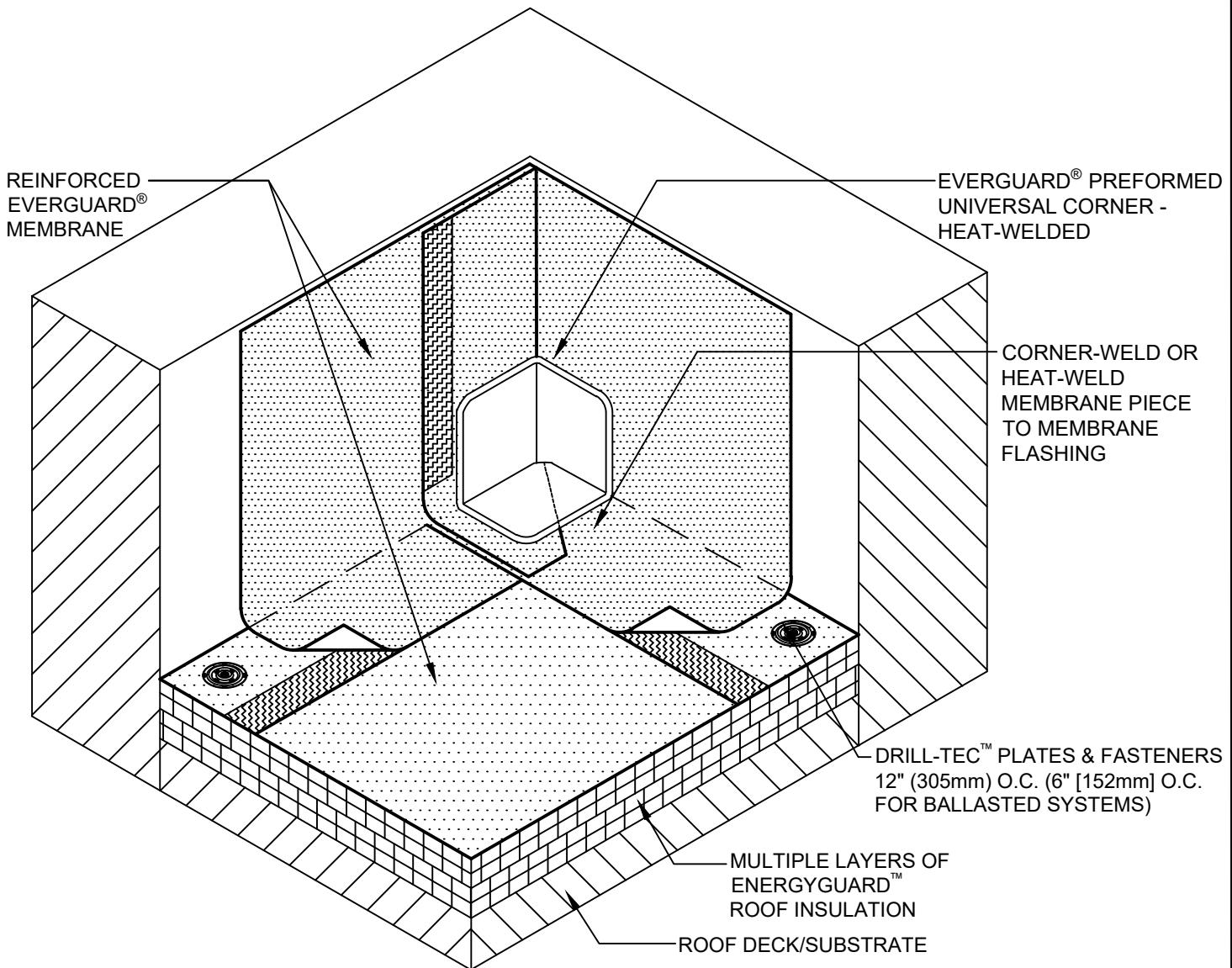
THIS DETAIL APPLIES TO:
ADHERED SYSTEMS
BALLASTED SYSTEMS
SELF-ADHERED SYSTEMS

ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

LEGEND





NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES
3. FLASHINGS MAY BE ADHERED OR INSTALLED DRY. REFER TO 300 SERIES.
4. INSIDE CORNERS MAY ALSO BE FIELD-FABRICATED USING UNREINFORCED MEMBRANE.

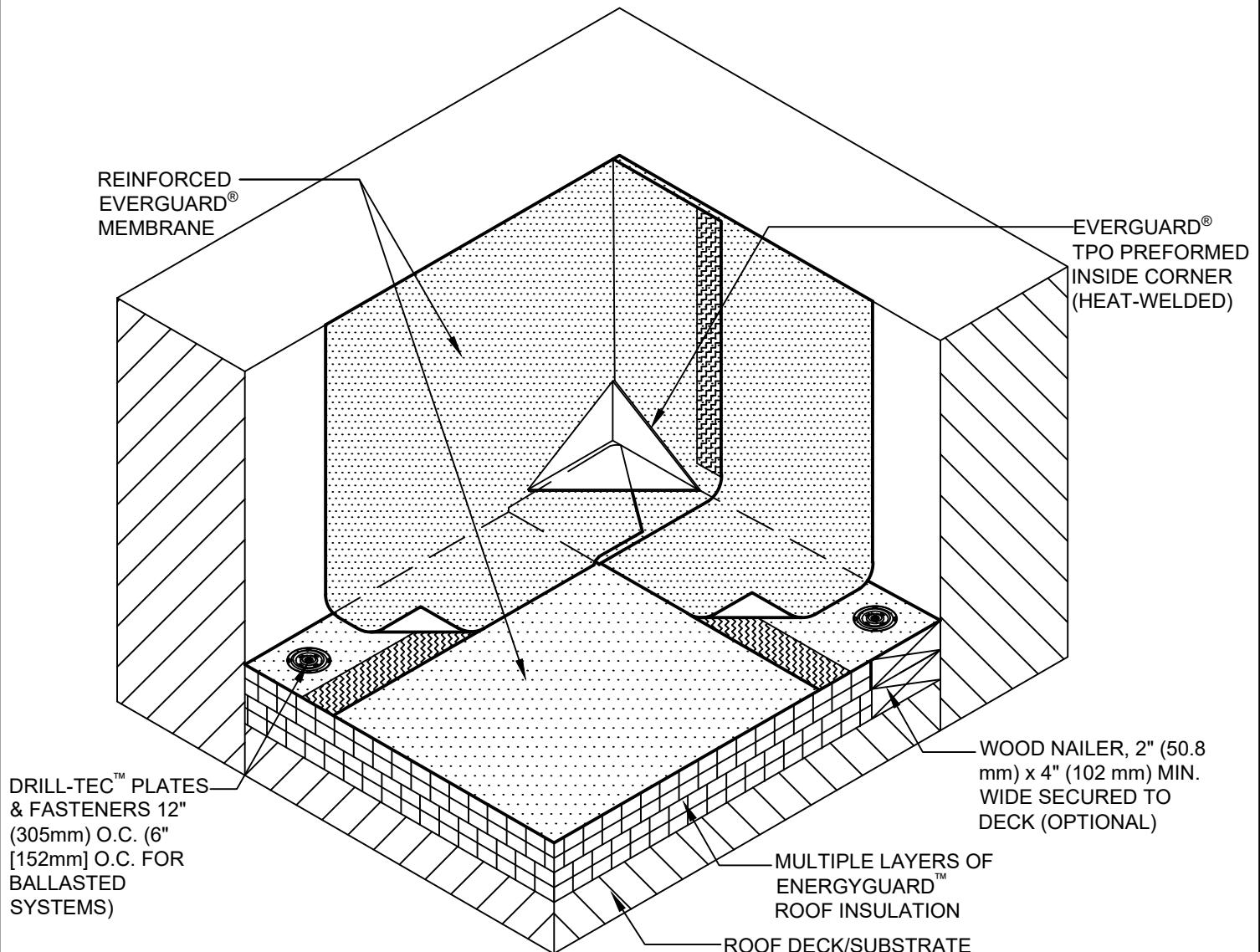
GAF

INSIDE CORNER REINFORCEMENT
- PREFORMED UNIVERSAL CORNERDRAWING #
327A

LEGEND

HEAT-WELDED

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS | 8/24/20 | N.T.S. |



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. FLASHINGS MAY BE ADHERED OR INSTALLED DRY. SEE SPEC FOR DIMENSIONS.
3. KEEP FASTENERS BACK FROM CORNER 6" (152 mm) MAX. IN BOTH HORIZONTAL AND VERTICAL APPLICATIONS.
4. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.

GAF

INSIDE CORNER REINFORCEMENT
- PREFORMED CORNER

DRAWING #
327B

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THIS DETAIL APPLIES TO:
ALL SYSTEMS

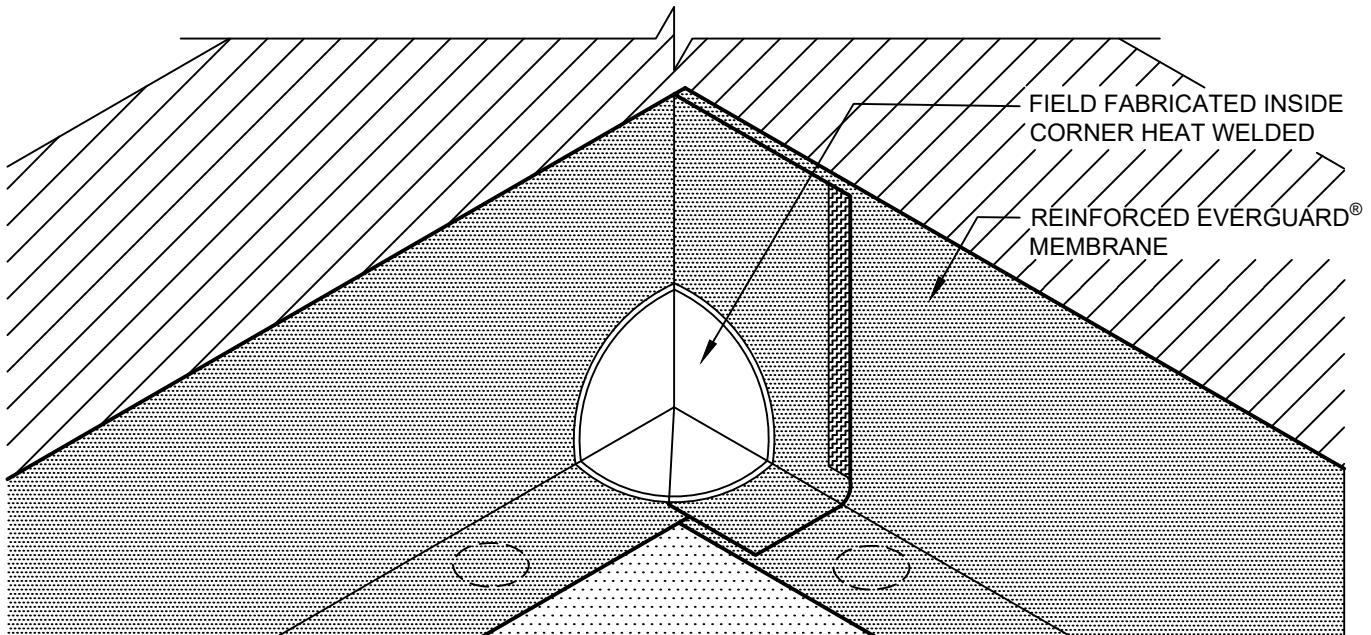
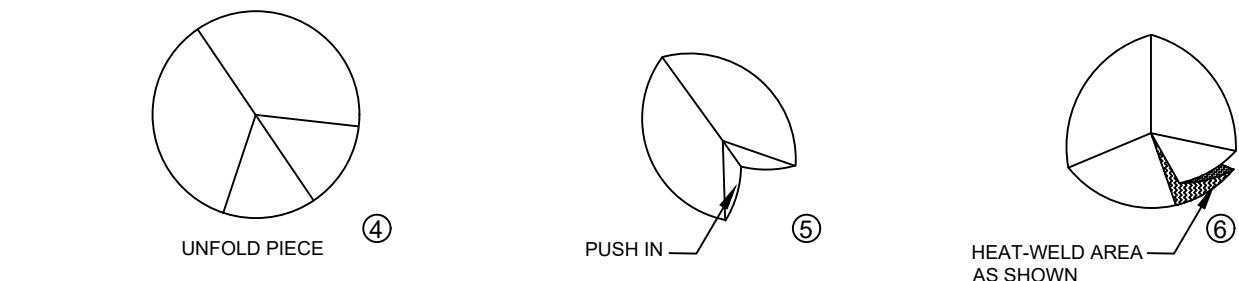
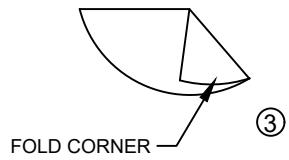
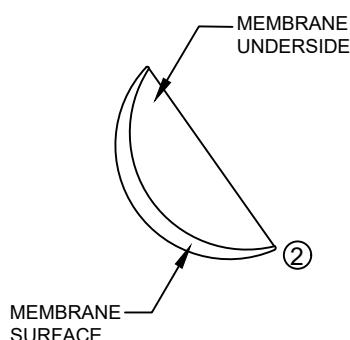
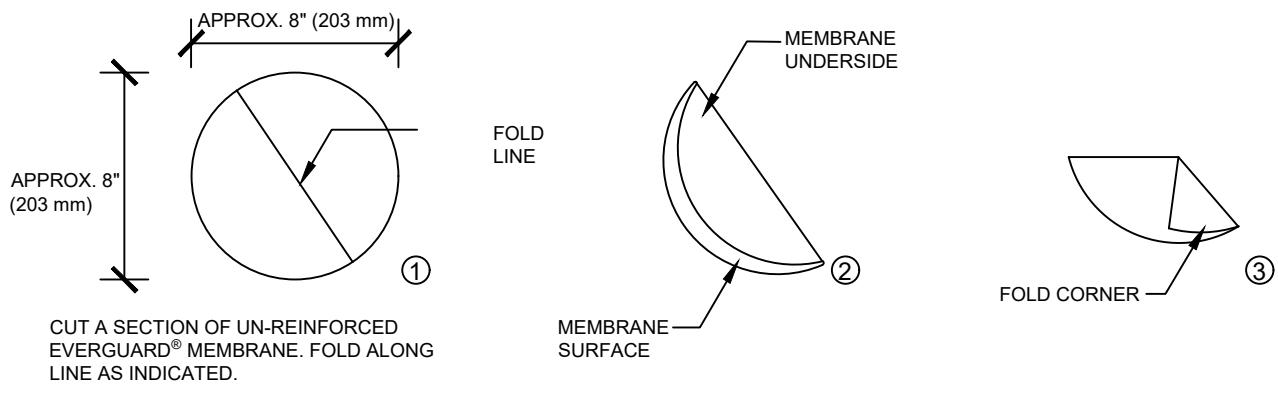
ISSUE / REVISION DATE
8/24/20

SCALE
N.T.S.

LEGEND

HEAT-WELDED

SINGLE-PLY: TPO & PVC



NOTE:

1. INSIDE CORNERS MAY BE FIELD-FABRICATED USING UN-REINFORCED MEMBRANE.
2. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.

GAF

INSIDE CORNER REINFORCEMENT - FIELD FABRICATION

DRAWING #
327D

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

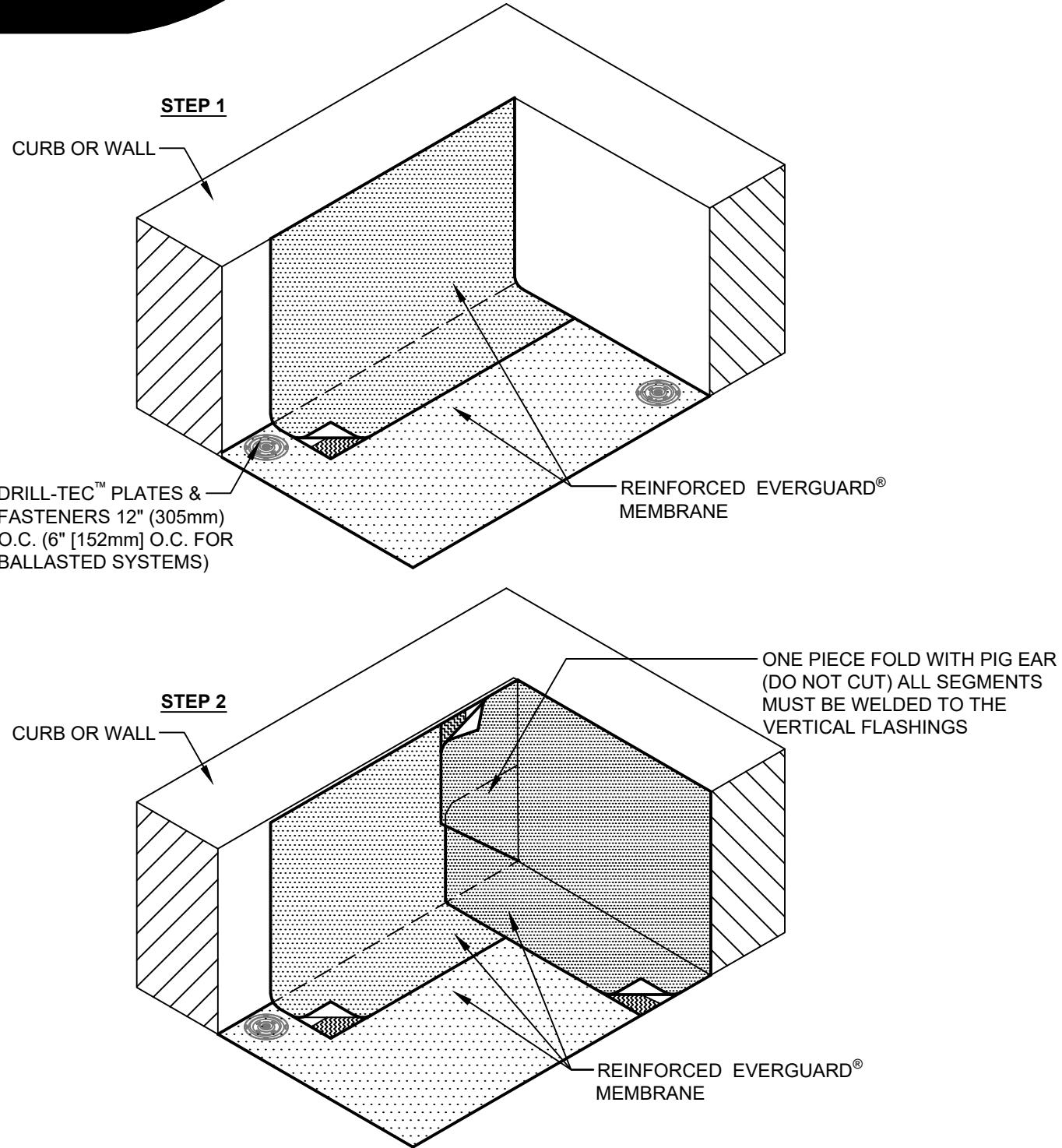
8/24/20

SCALE

N.T.S.

LEGEND

HEAT-WELDED

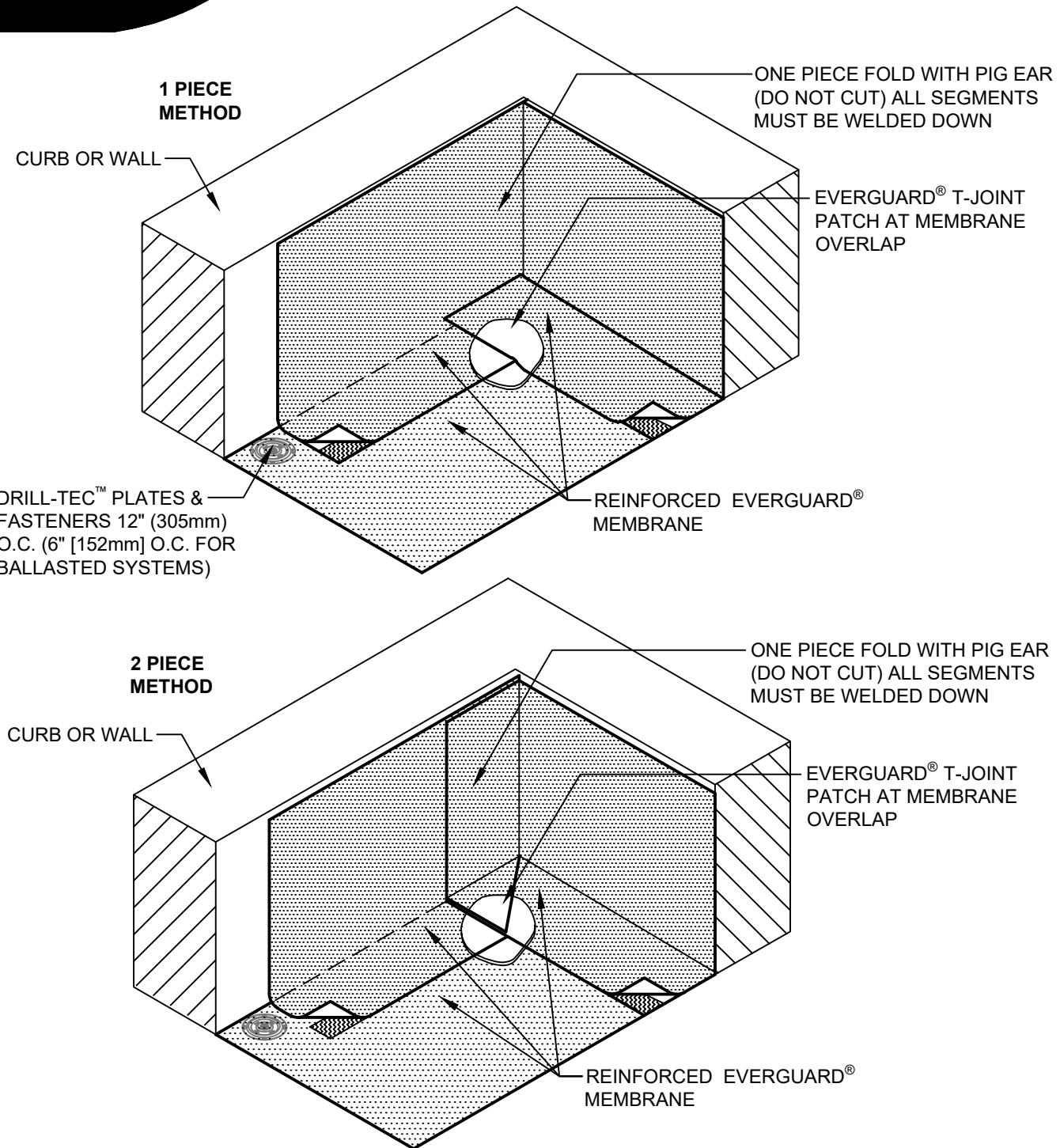
**NOTE:**

1. ALL SEGMENTS OF THE EAR MUST BE WELDED TOGETHER AND WELDED TO THE WALL
2. CHECK SYSTEM SPEC FOR GUIDELINES ON ADHERING FLASHINGS.
3. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
4. IF EVERGUARD® FREEDOM™ MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF
INSIDE CORNER FABRICATION
- 2 STEP "PIG EAR" UP
DRAWING #
328AGAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411**LEGEND**
 HEAT-WELDED

| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
|-------------------------|-----------------------|--------|
| ALL SYSTEMS | 6/3/21 | N.T.S. |

SINGLE-PLY: TPO & PVC



NOTE:

1. ALL SEGMENTS OF THE EAR MUST BE WELDED TOGETHER AND WELDED TO THE WALL
2. CHECK SYSTEM SPEC FOR GUIDELINES ON ADHERING FLASHINGS.
3. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
4. IF EVERGUARD® FREEDOM™ MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.

GAF

**INSIDE CORNER FABRICATION
- "PIG EAR" DOWN**

DRAWING #
328B

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

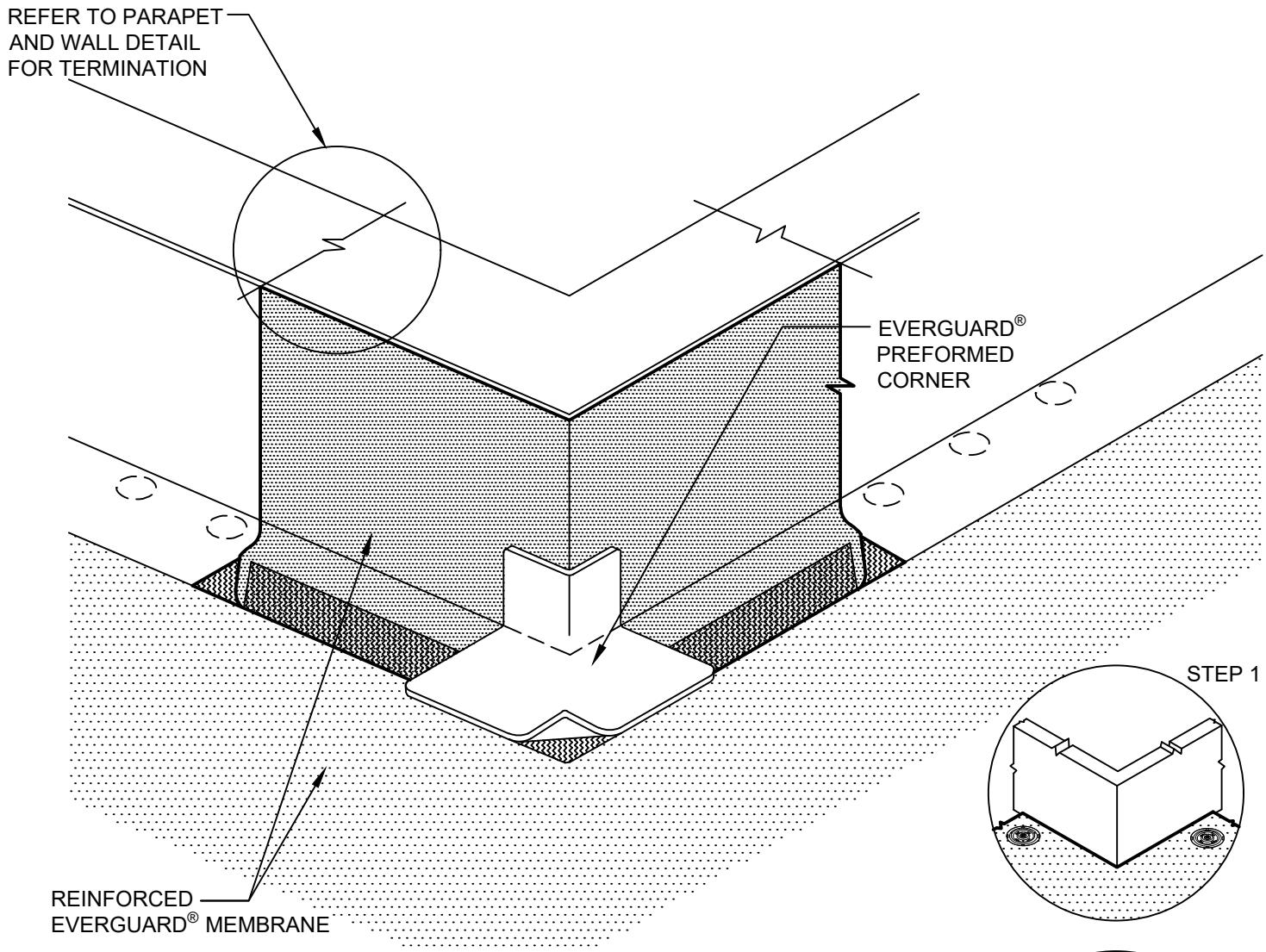
8/24/20

SCALE

N.T.S.

LEGEND

HEAT-WELDED

**NOTE:**

1. FLASHINGS MAY BE ADHERED OR INSTALLED DRY. SEE SPEC FOR DIRECTIONS.
2. KEEP FASTENERS BACK FROM CORNER 6" (152 mm) MAX. IN BOTH HORIZONTAL AND VERTICAL APPLICATIONS.

ALTERNATE WALL/CURB ATTACHMENT**GAF****OUTSIDE CORNER REINFORCEMENT
- PREFORMED CORNER DETAIL**DRAWING #
329A

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

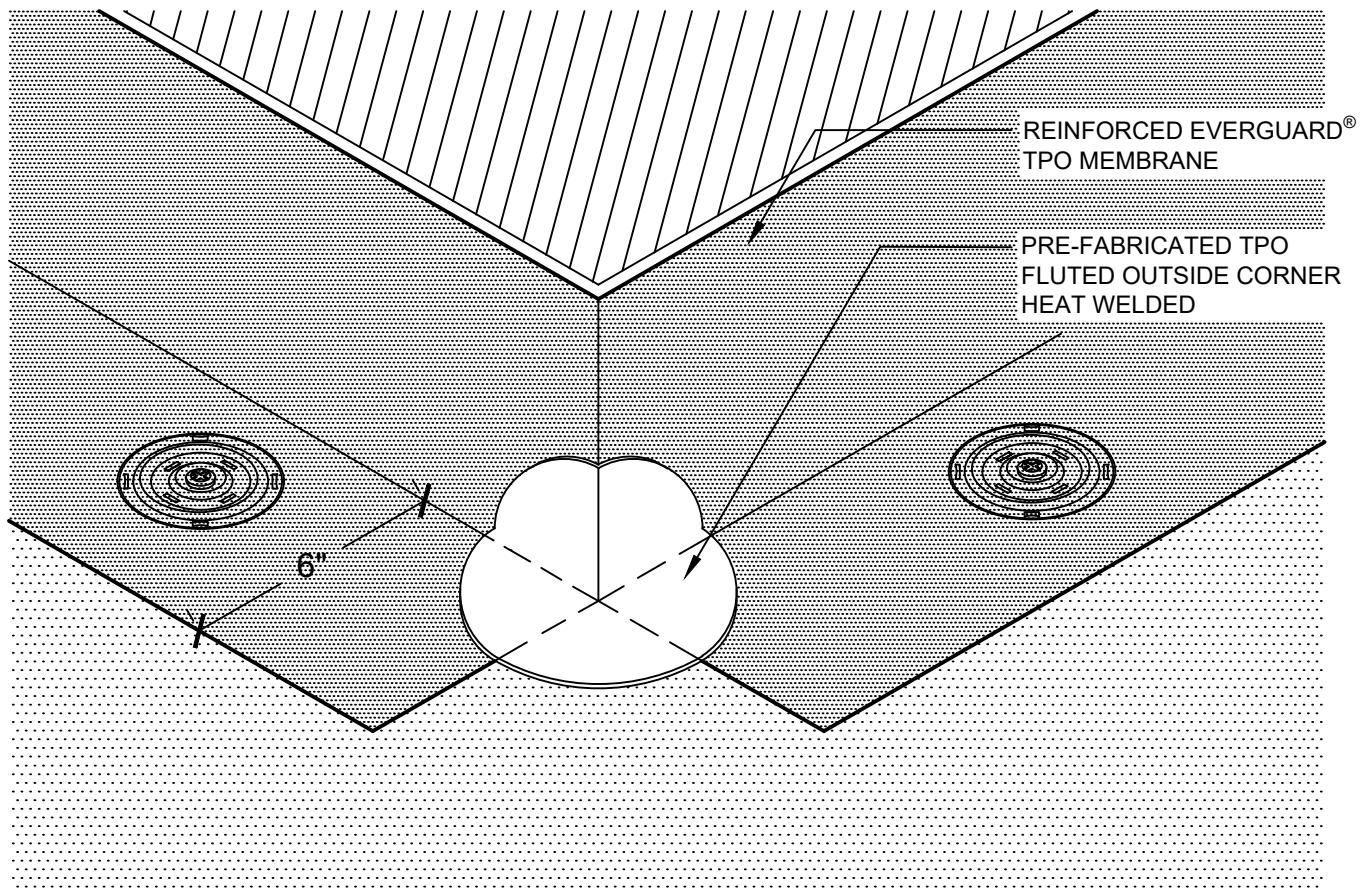
8/24/20

SCALE

N.T.S.

LEGEND

HEAT-WELDED



NOTE:

1. CORNER CAN BE FIELD FABRICATED WITH 4" (102mm). DIAMETER UNREINFORCED MEMBRANE HEAT-WELDED FULLY IN CORNER.

GAF

OUTSIDE CORNER REINFORCEMENT
- FLUTED CORNERDRAWING #
329B

THIS DETAIL APPLIES TO:

ALL SYSTEMS

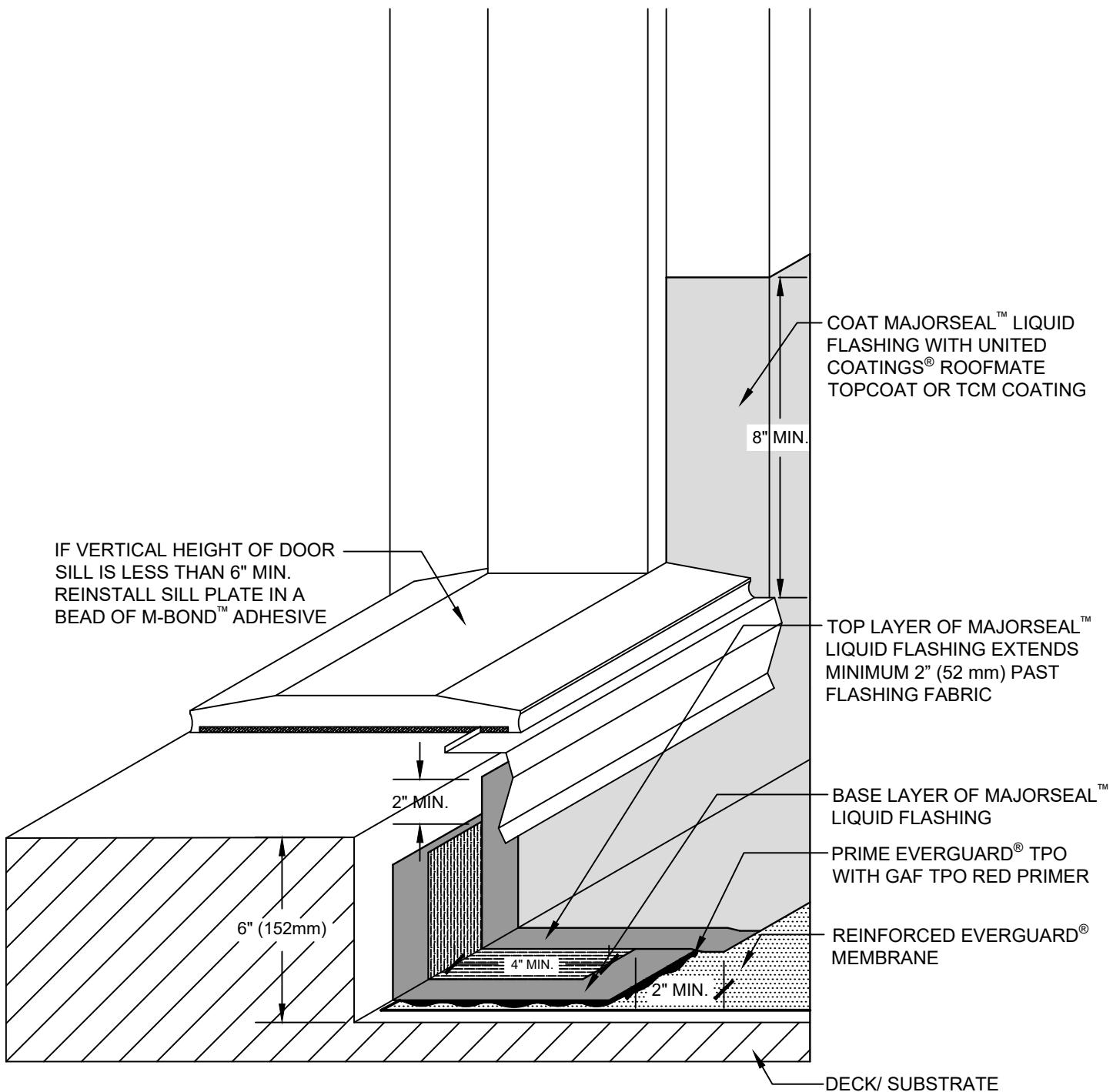
ISSUE / REVISION DATE

8/24/20

SCALE

N.T.S.

LEGEND

**NOTE:**

1. EVERGUARD® TPO MEMBRANE MUST BE PRIMED WITH GAF TPO RED PRIMER IN ALL AREAS THAT MAJORSEAL™ LIQUID FLASHING OR ROOFMATE COATING WILL BE USED.
2. IF VERTICAL HEIGHT OF DOOR SILL IS LESS THAN 6" MIN. EXTEND MAJORSEAL™ LIQUID FLASHING SYSTEM UNDER DOOR SILL. SEE DETAIL 303MM FOR MORE DETAILS.

GAF**RAISED DOOR SILL FLASHING**DRAWING #
341

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

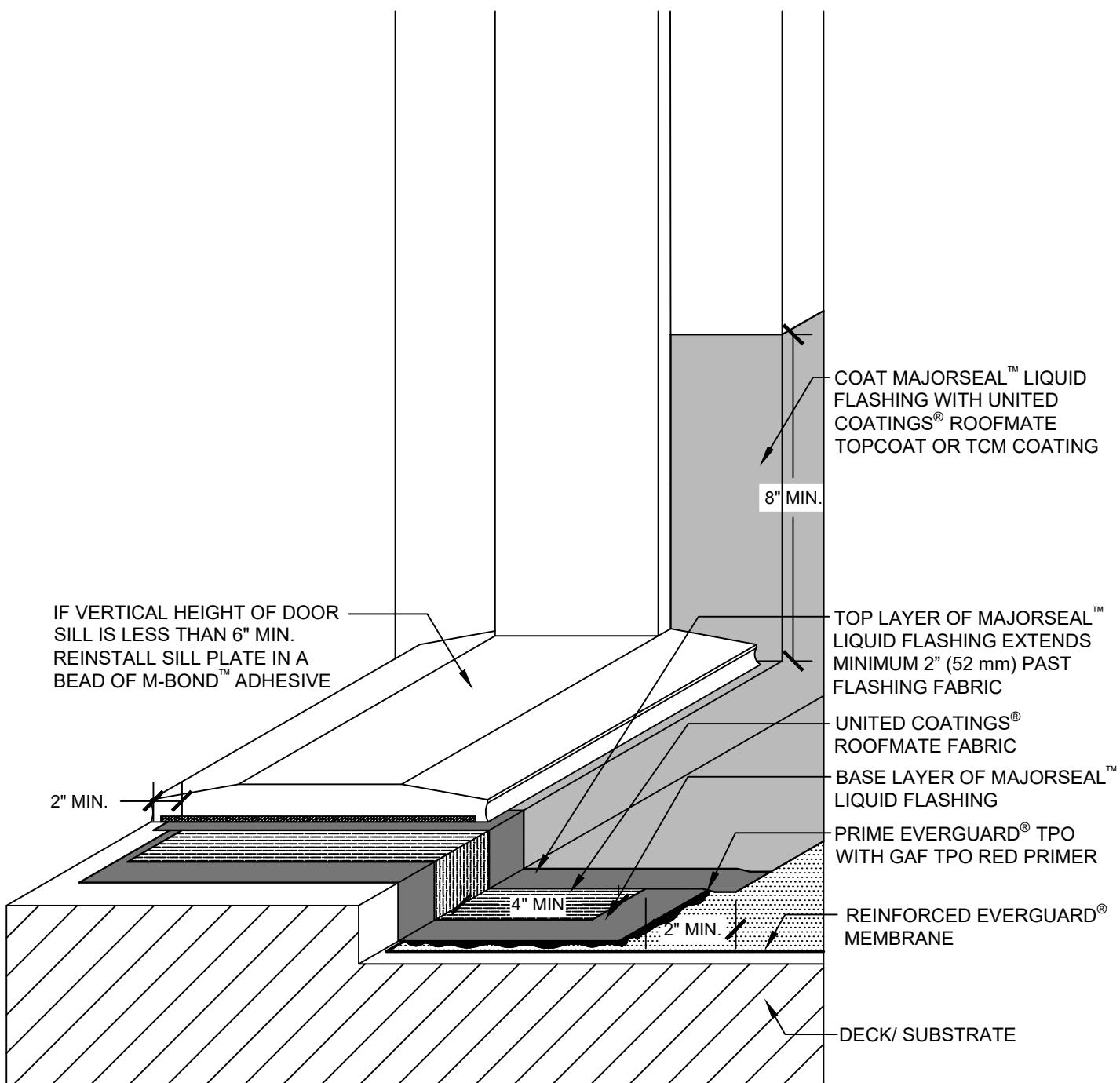
8/24/20

SCALE

N.T.S.

LEGEND

| | |
|--|----------------------------------|
| | UNITED COATINGS® ROOFMATE FABRIC |
| | M-BOND™ ADHESIVE |

**NOTE:**

1. EVERGUARD® TPO MEMBRANE MUST BE PRIMED WITH GAF TPO RED PRIMER IN ALL AREAS THAT MAJORSEAL™ LIQUID FLASHING OR ROOFMATE COATING WILL BE USED.

**LOW DOOR SILL FLASHING**DRAWING #
342

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

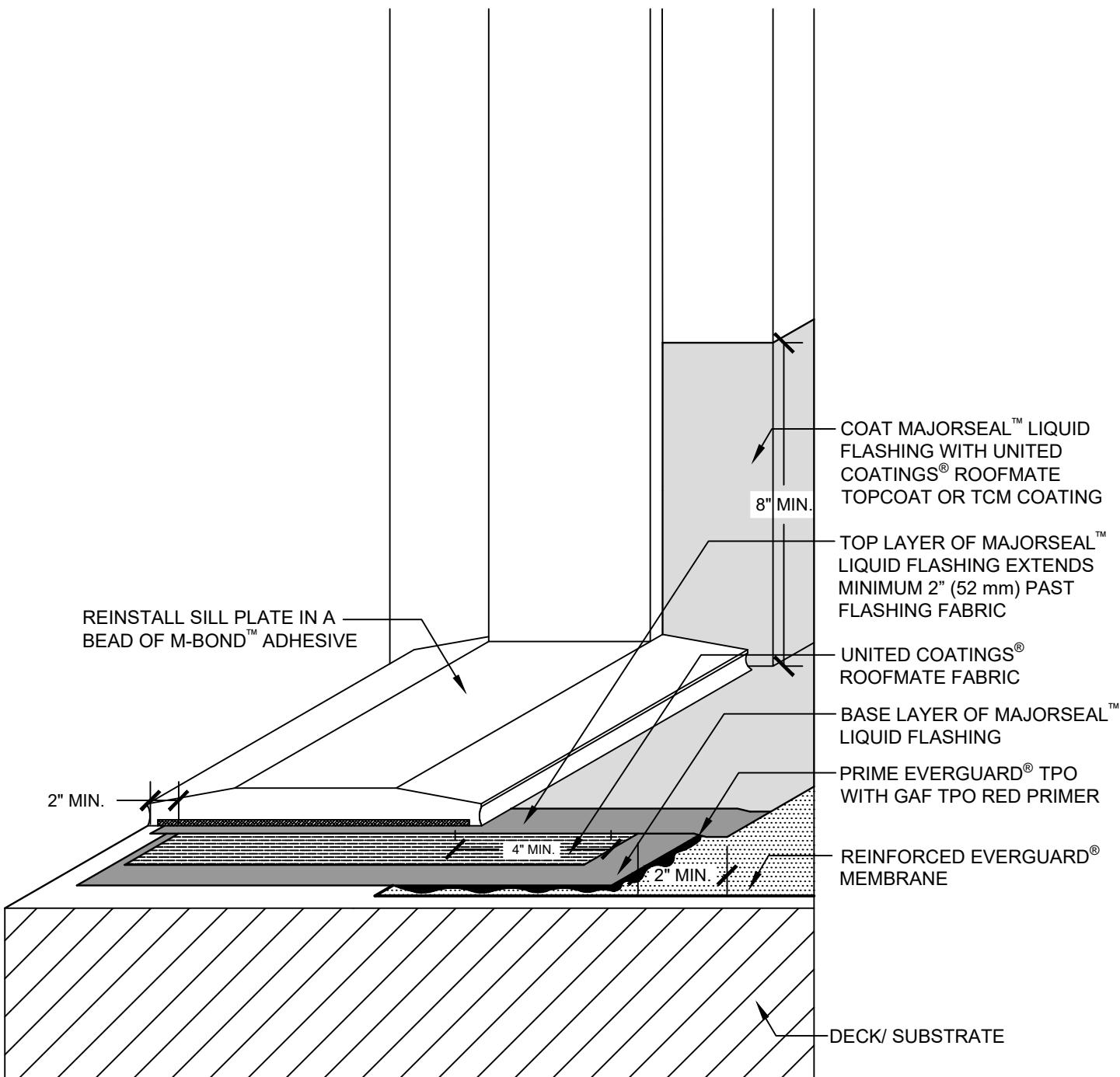
8/24/20

SCALE

N.T.S.

LEGEND

| | |
|--|----------------------------------|
| | UNITED COATINGS® ROOFMATE FABRIC |
| | M-BOND™ ADHESIVE |



NOTE:

1. EVERGUARD® TPO MEMBRANE MUST BE PRIMED WITH GAF TPO RED PRIMER IN ALL AREAS THAT MAJORSEAL™ LIQUID FLASHING OR ROOFMATE COATING WILL BE USED.



FLUSH DOOR SILL FLASHING

DRAWING #
343

THIS DETAIL APPLIES TO:

ALL SYSTEMS

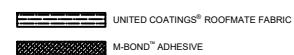
ISSUE / REVISION DATE

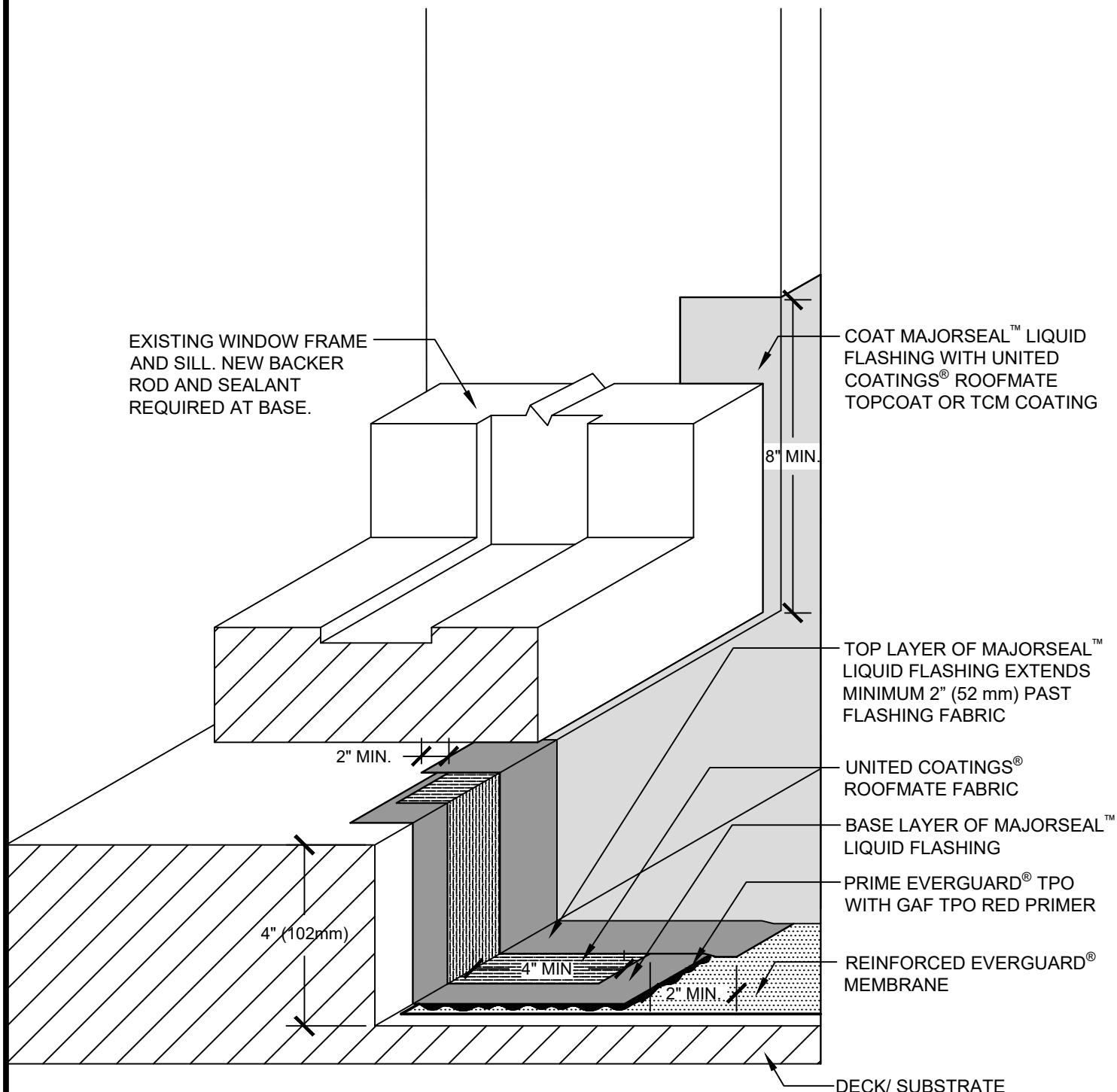
8/24/20

SCALE

N.T.S.

LEGEND





GAF

WINDOW SILL FLASHING

DRAWING #
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THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

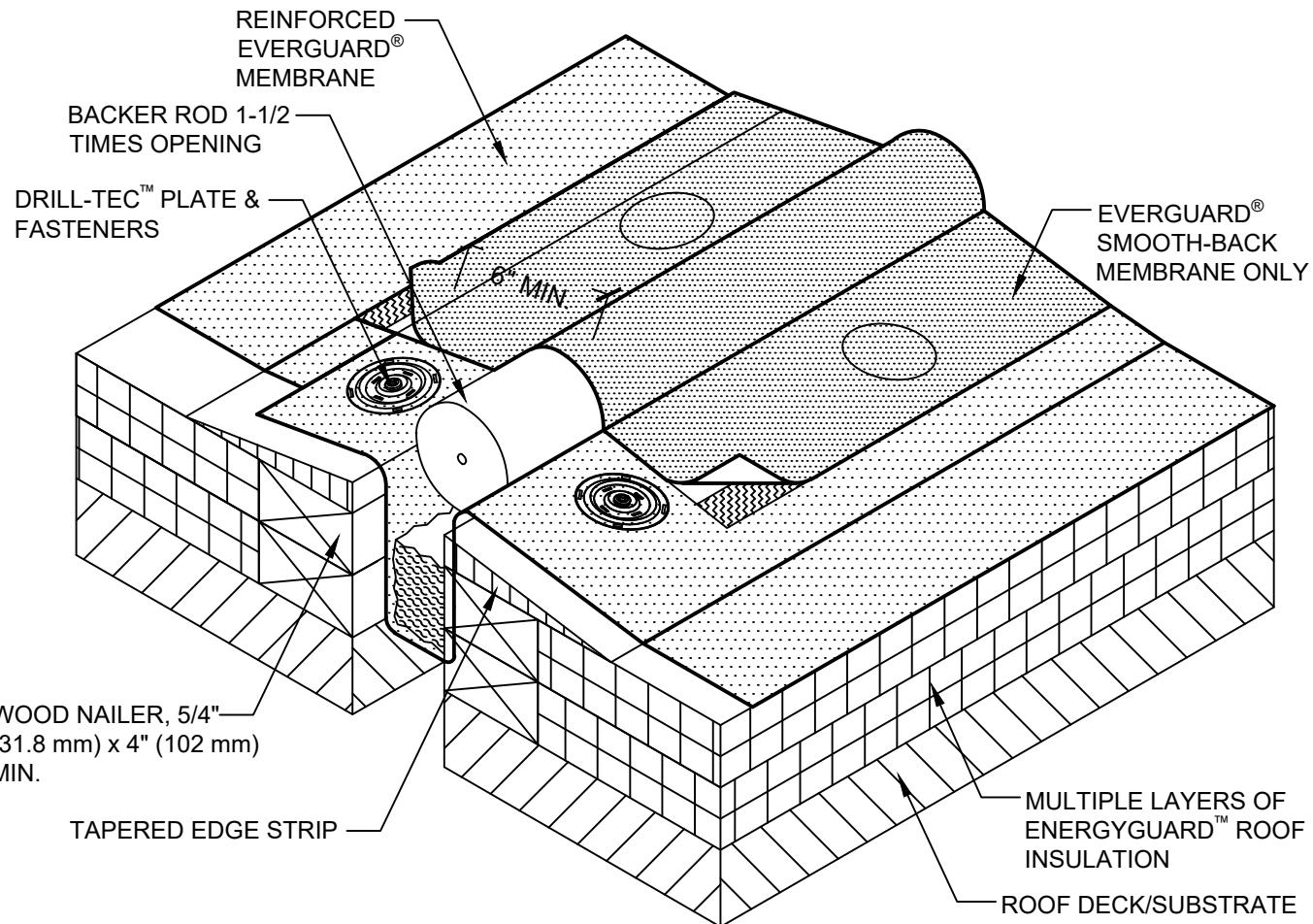
ALL SYSTEMS

8/24/20

LEGEND



UNITED COATINGS® ROOFMATE FABRIC



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. FIELD-FABRICATED EXPANSION JOINT SHOULD NOT BE FLEECE-BACK OR SELF-ADHERING MEMBRANE. USE STANDARD EVERGUARD® MEMBRANE.

GAF

**FIELD FABRICATED EXPANSION JOINT DETAIL
- FLAT TYPE**

DRAWING #
401B

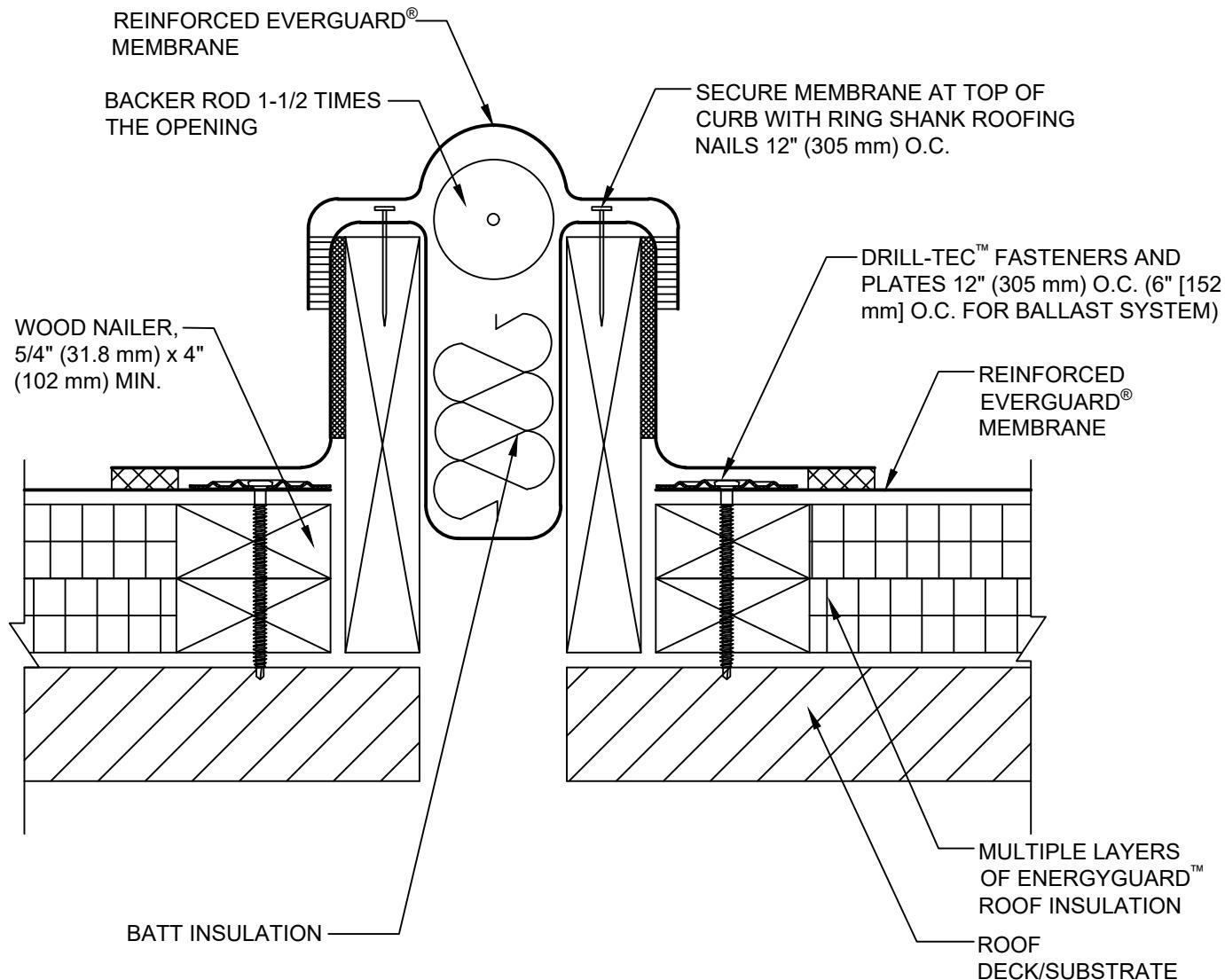
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

HEAT-WELDED
 BATT INSULATION



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. FIELD FABRICATED EXPANSION JOINT SHOULD BE SMOOTH BACKED MEMBRANE ONLY.



**FIELD FABRICATED EXPANSION JOINT DETAIL
- CURB TYPE**

DRAWING #
402B

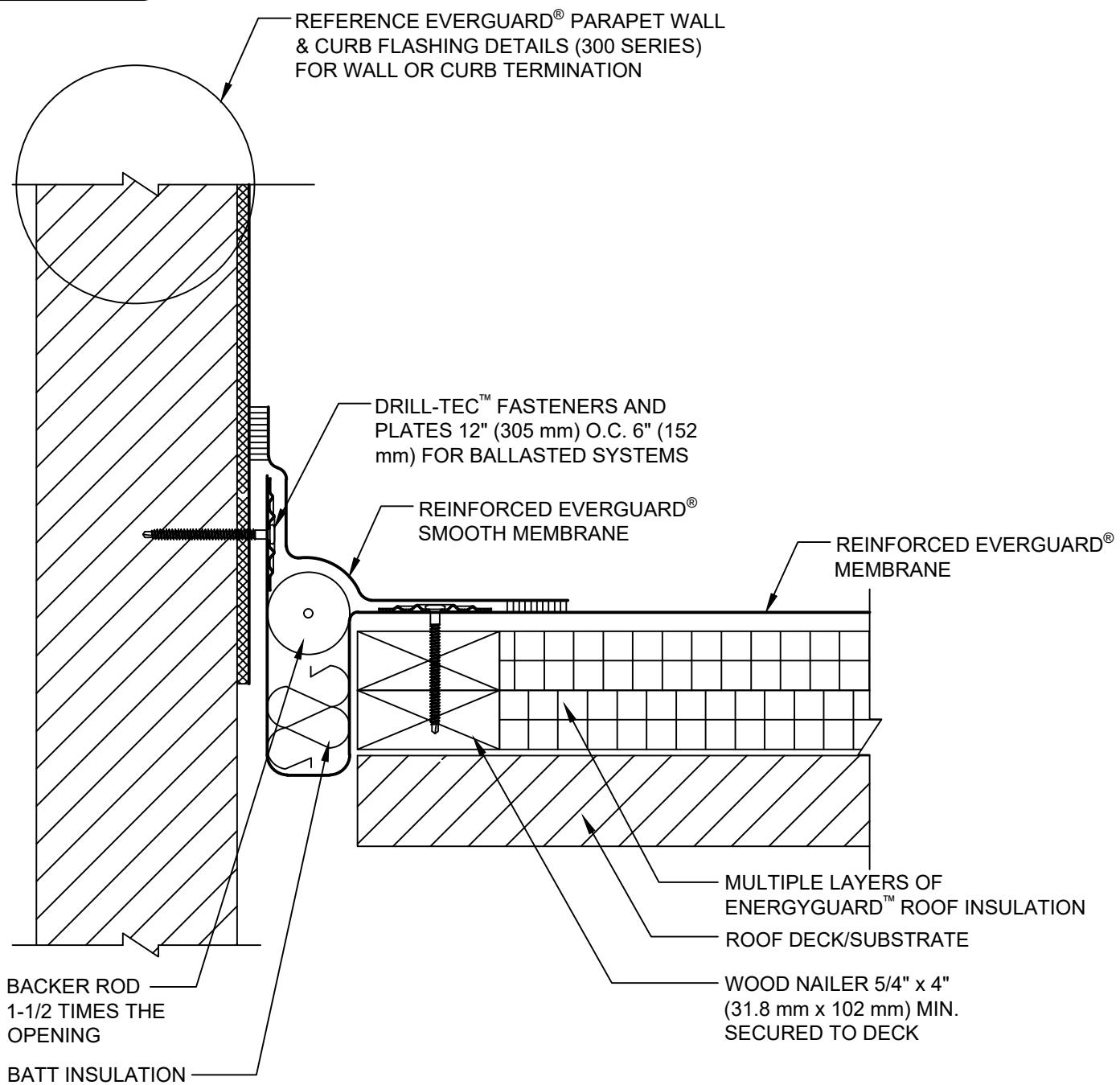
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

| | |
|--|--|
| | HEAT-WELDED |
| | EVERGUARD® BONDING ADHESIVE (OPTIONAL) |
| | FLEXSEAL™ CAULK GRADE SEALANT |



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. FIELD-FABRICATED EXPANSION JOINT SHOULD USE A SMOOTH BACKED MEMBRANE.



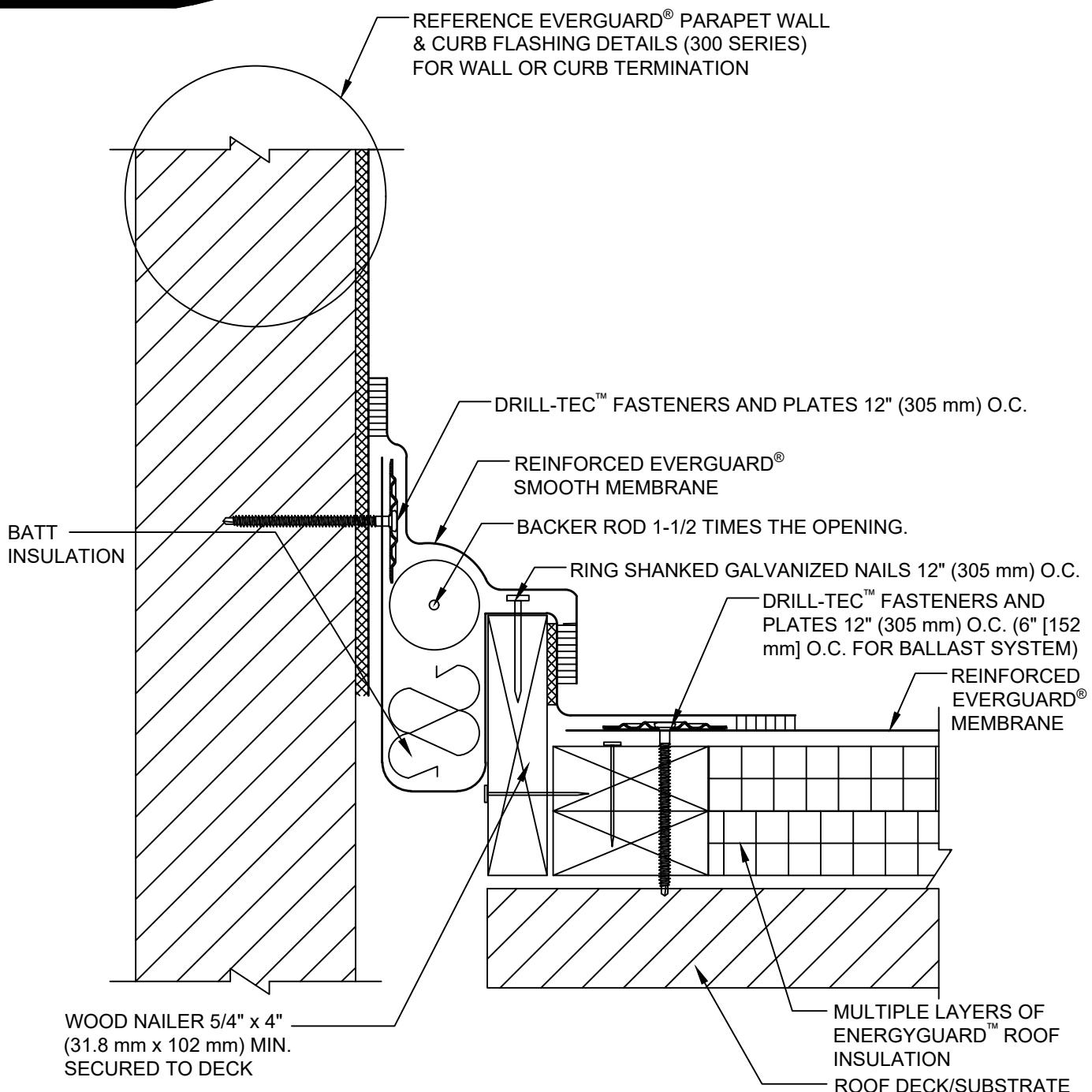
**FIELD FABRICATED WALL EXPANSION JOINT
- FLAT TYPE**

DRAWING #
403B

GAF • 1 Campus Drive Parsippany NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411

LEGEND

| | |
|--|---|
| | HEAT-WELDED |
| | EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30" (762 mm) FLASHING HEIGHT |



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. FIELD-FABRICATED EXPANSION JOINT SHOULD USE A SMOOTH BACKED MEMBRANE.

GAF

FIELD FABRICATED WALL EXPANSION JOINT DETAIL
- CURB TYPEDRAWING #
404B

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

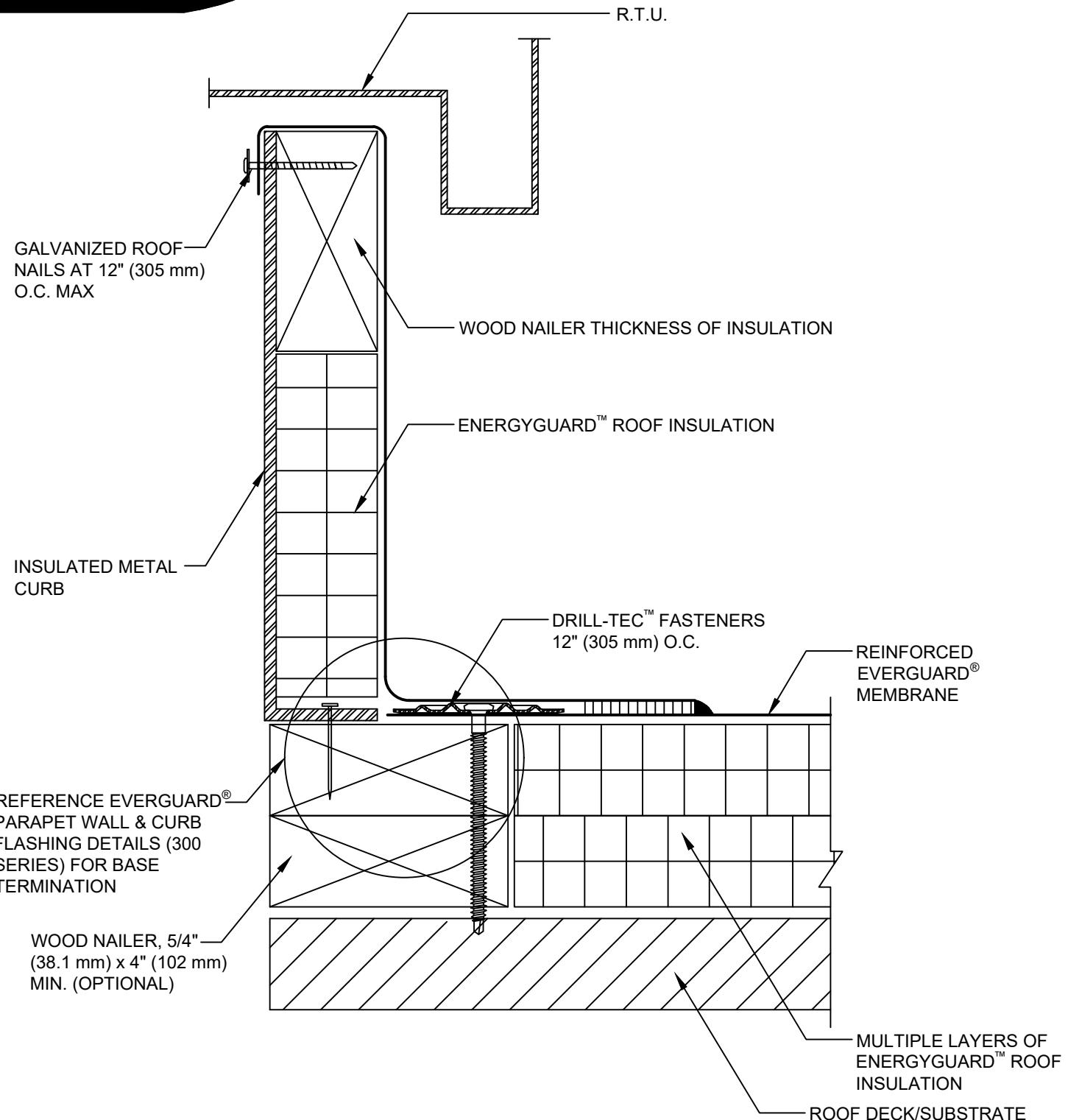
SCALE

ALL SYSTEMS

8/17/20

LEGEND

| | |
|--|---|
| | HEAT-WELDED |
| | EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30" (762 mm) FLASHING HEIGHT |



GAF

TERMINATION AT R.T.U. WITH WELDED LAP DETAIL

DRAWING #
503A

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

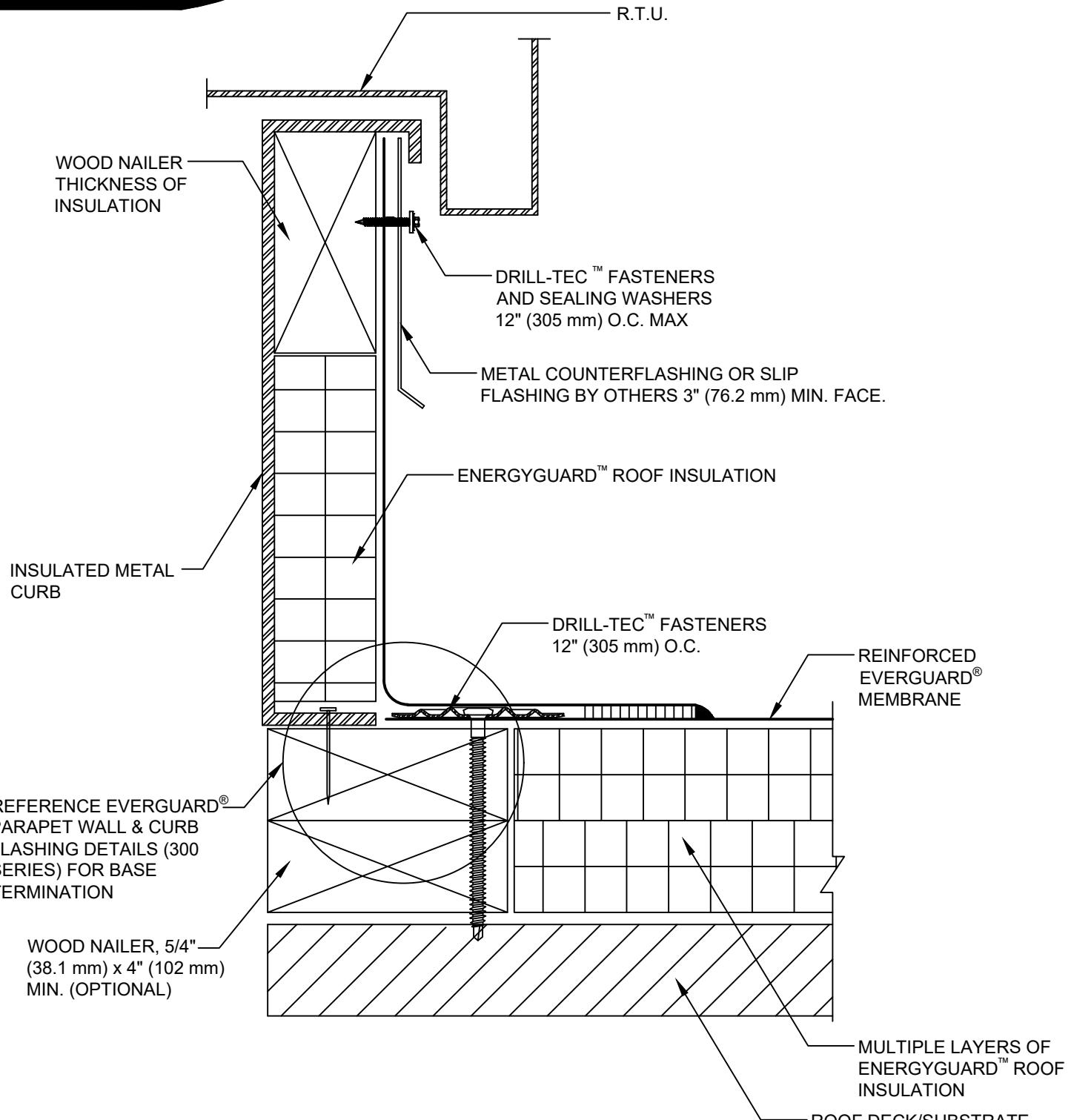
ALL SYSTEMS

8/17/20

LEGEND

HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT



GAF

TERMINATION AT R.T.U. WITH COUNTERFLASHING DETAIL

DRAWING #
503B

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

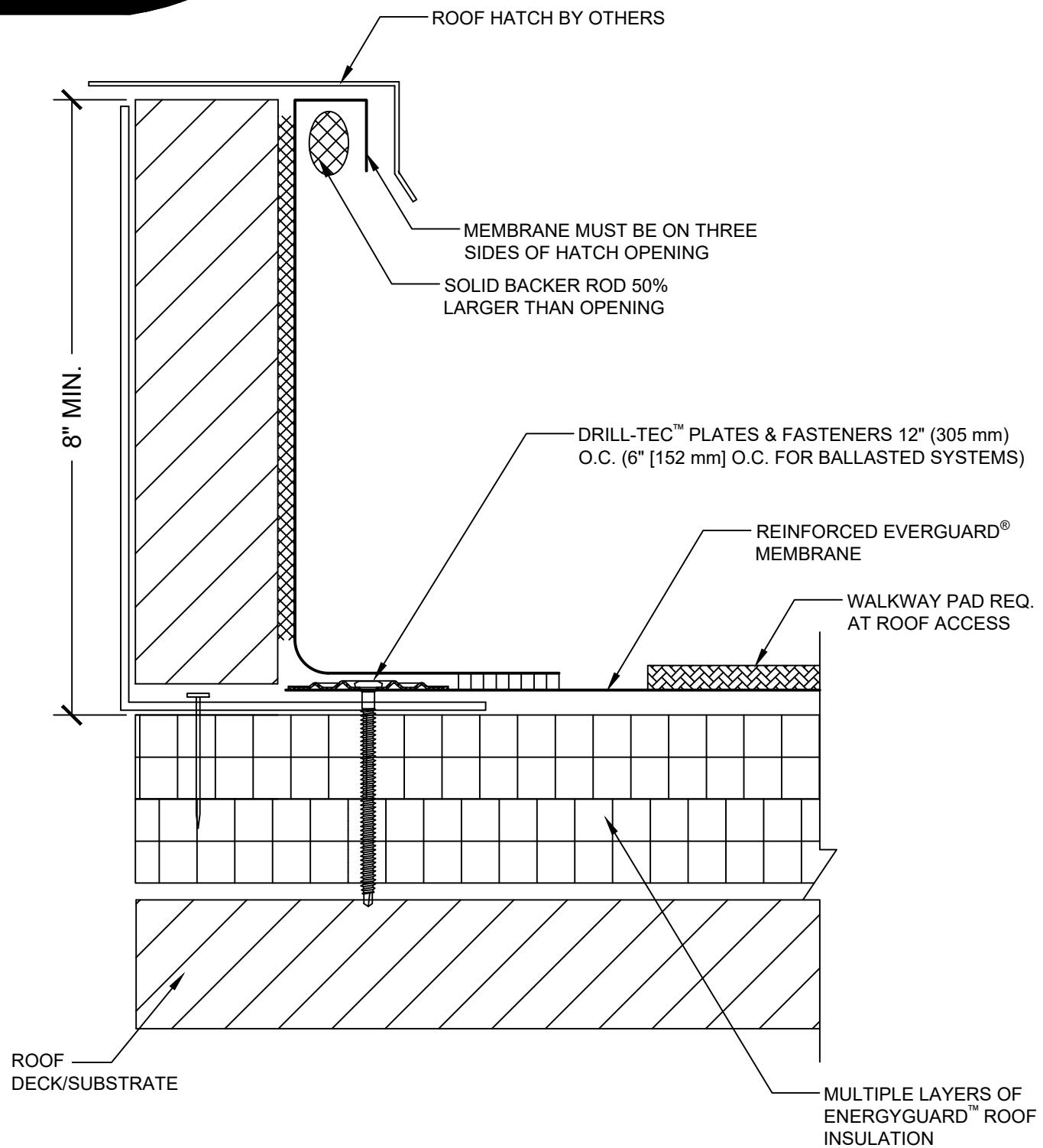
ALL SYSTEMS

8/17/20

LEGEND

HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT



GAF

ROOF HATCH DETAIL

DRAWING #
505AGAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411

LEGEND

HEAT-WELDED

EVERGUARD® BONDING ADHESIVE (OPTIONAL)

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

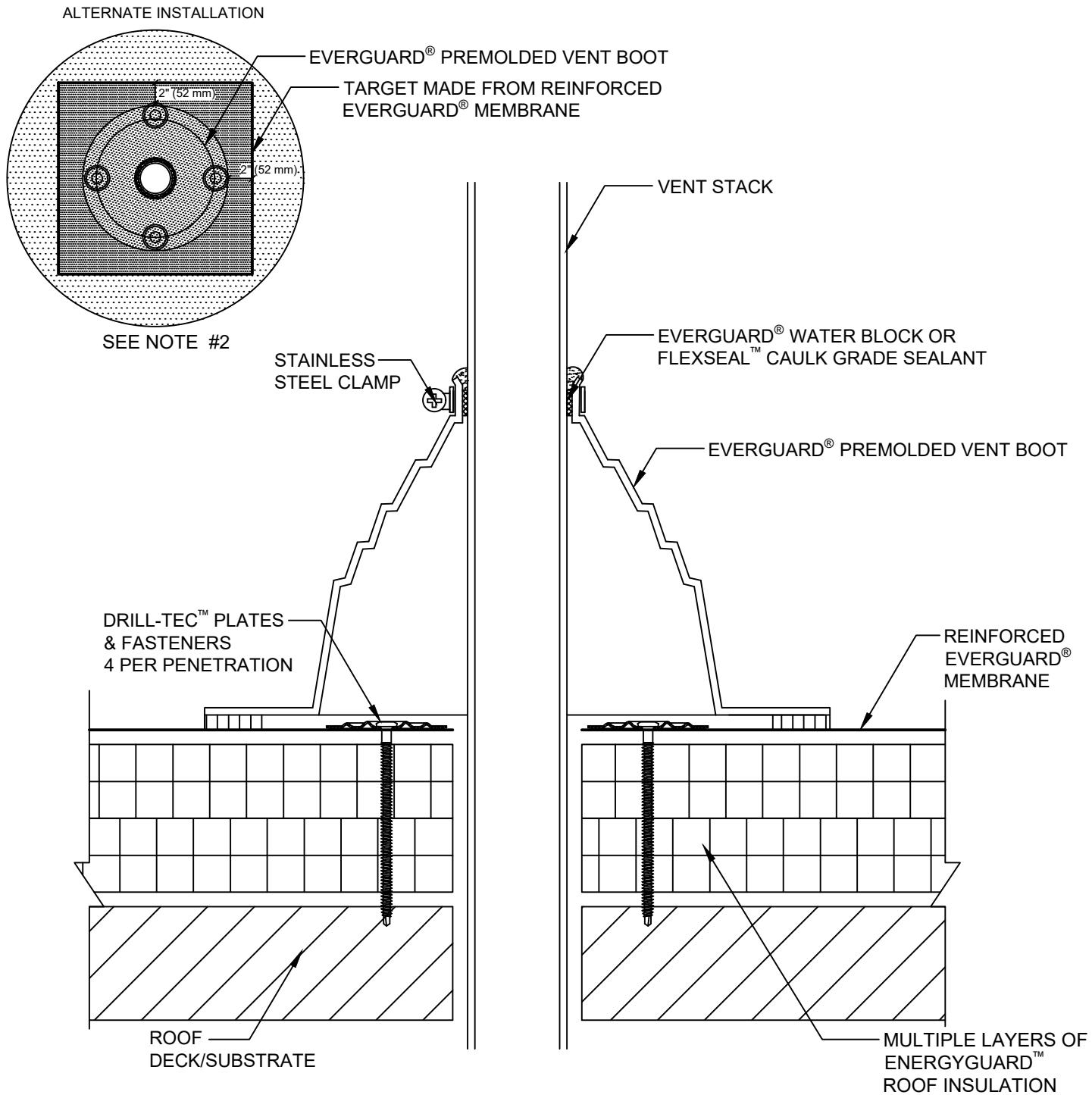
SCALE

ALL SYSTEMS

3/29/21

N.T.S.

SINGLE-PLY: TPO & PVC



GAF

PREMOLDED VENT BOOT FLASHING DETAIL

DRAWING #
506A

THIS DETAIL APPLIES TO:
ALL SYSTEMS

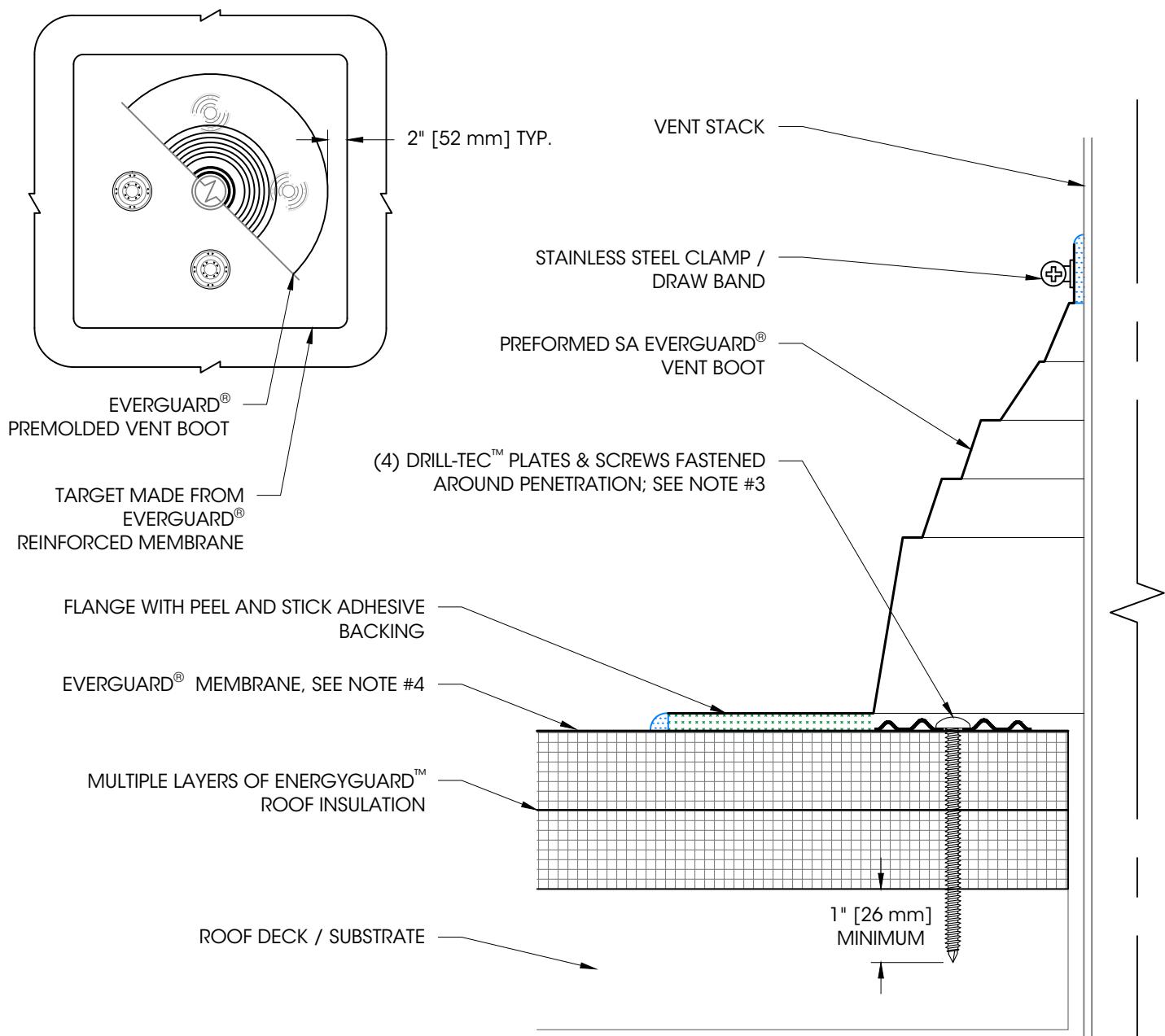
ISSUE / REVISION DATE
8/17/20

LEGEND

HEAT-WELDED

FLEXSEAL™ CAULK GRADE SEALANT

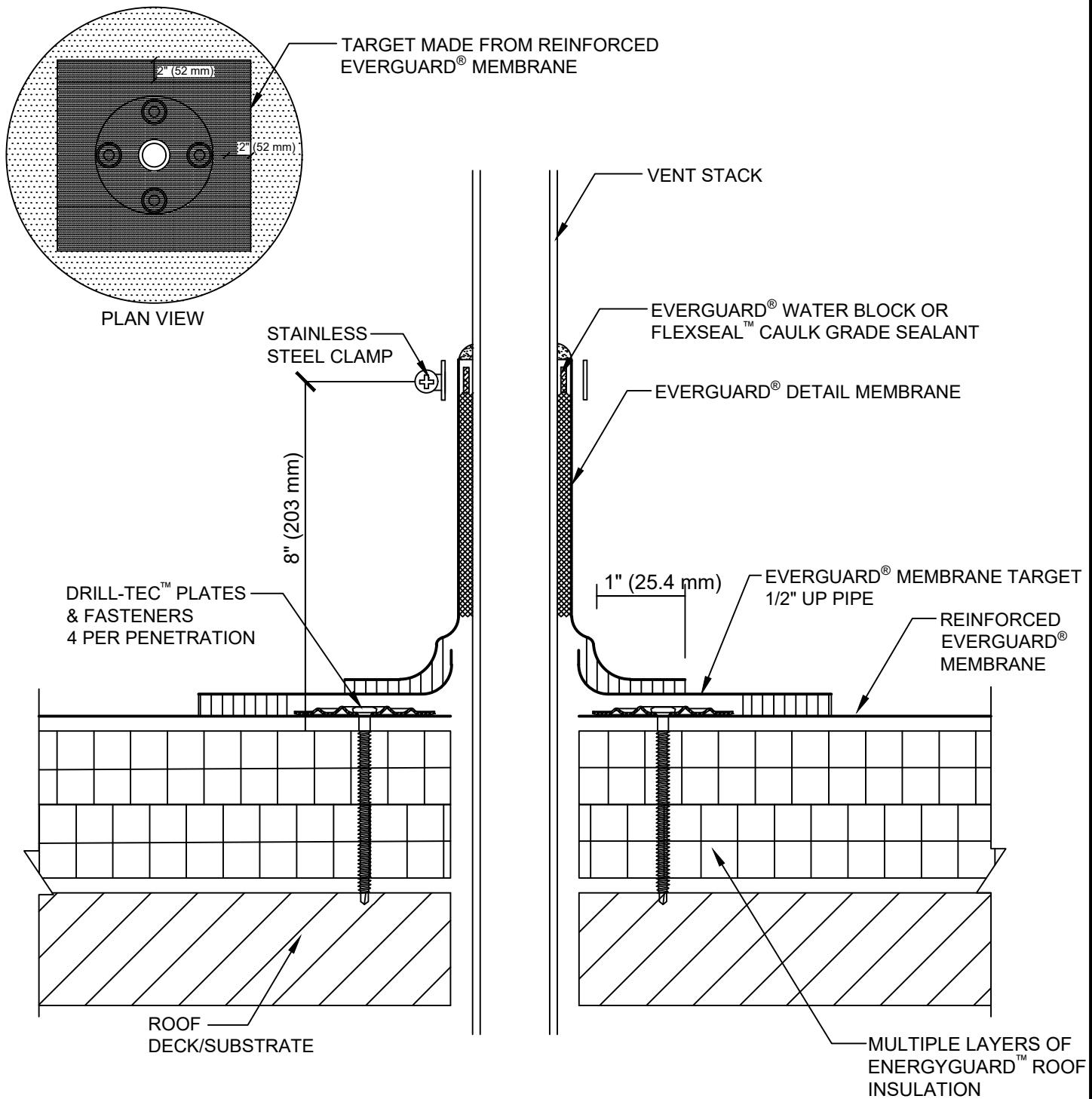
ALTERNATE INSTALLATION (SEE NOTE #3)



NOTES:

1. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
2. FOUR DRILL-TEC™ PLATES & SCREWS MUST BE FASTENED AROUND PENETRATION.
3. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.
4. REFER TO INSTALLATION INSTRUCTIONS FOR PREPARATION AND TREATMENT OF MEMBRANE PRIOR TO INSTALLING VENT BOOT.

| LEGEND | | SA PREFORMED VENT BOOT | | | DETAIL |
|--------|----------|------------------------|--|------------|---------|
| | ADHESIVE | | | | |
| | SEALANT | | | | |
| | | ROOF AREA | | ISSUE DATE | SCALE |
| | | PENETRATIONS | | 7/15/2024 | 6" = 1' |



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. APPLY HEAT TO UNREINFORCED DETAIL MEMBRANE AND FORM BY HAND PRIOR TO HOT AIR WELDING.

GAF

FIELD-WRAPPED PENETRATION FLASHING DETAIL

DRAWING #
507

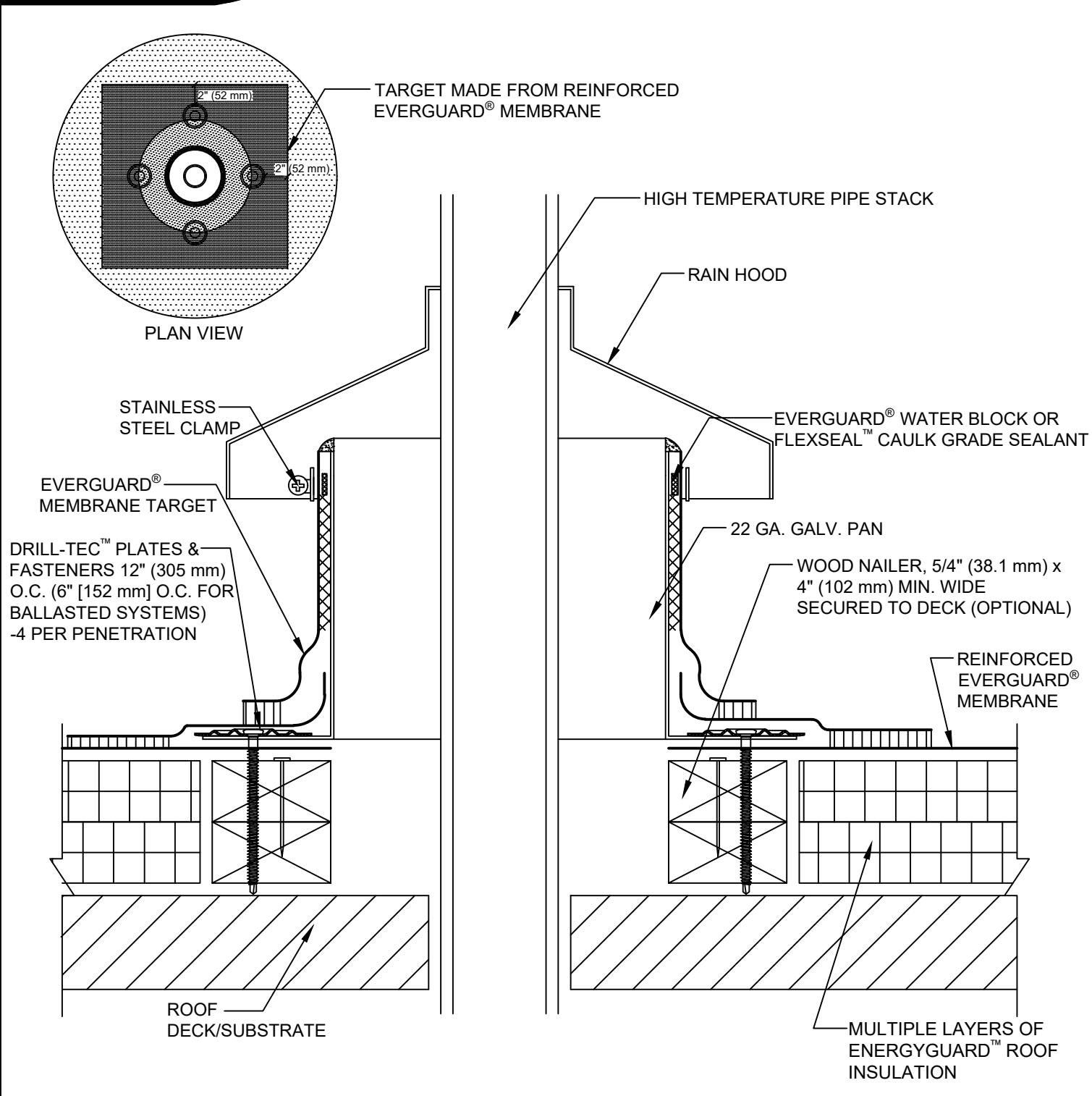
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
5/4/23

SCALE
N.T.S.

LEGEND

| | |
|--|--|
| | HEAT-WELDED |
| | FLEXSEAL™ CAULK GRADE SEALANT |
| | EVERGUARD® BONDING ADHESIVE (OPTIONAL) |



NOTE:

1. TO BE USED WHEN TEMPERATURE OF STACK EXCEEDS 160° F.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. APPLY HEAT TO UNREINFORCED DETAIL MEMBRANE AND FORM BY HAND PRIOR TO INSTALLING.

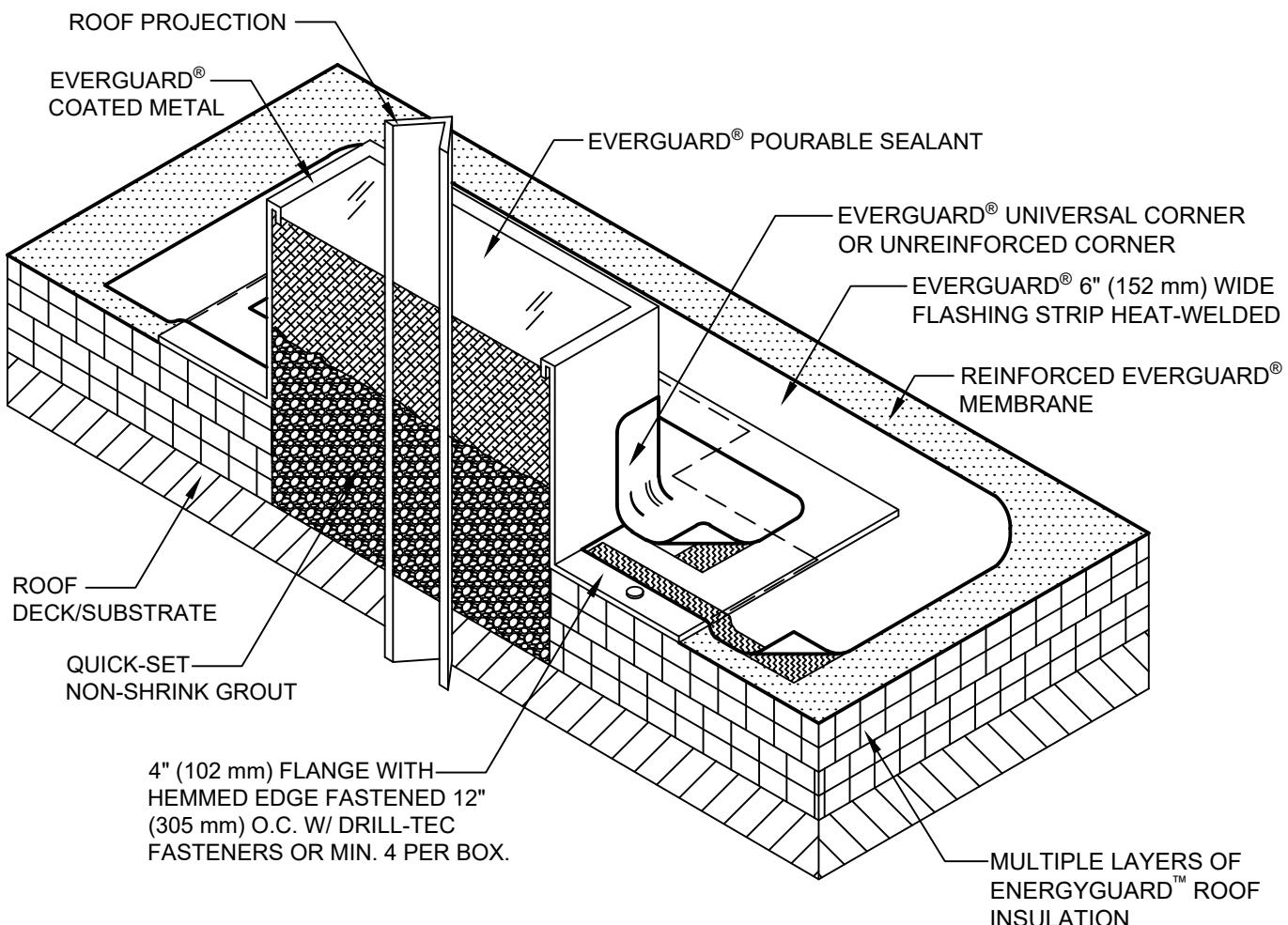
GAF

HIGH TEMPERATURE STACK FLASHING DETAIL

DRAWING #
508

LEGEND

| | |
|--|--|
| | HEAT-WELDED |
| | FLEXSEAL™ CAULK GRADE SEALANT |
| | EVERGUARD® BONDING ADHESIVE (OPTIONAL) |



NOTE:

1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
2. BEND EVERGUARD COATED METAL TO FORM A SEALANT BOX AS SHOWN. STRIP-IN VERTICAL SEAM WHERE BOX IS JOINED TOGETHER.
3. ALLOW 2" (52 mm) CLEARANCE AROUND THE PROJECTION. IF MULTIPLE PROJECTIONS, ALLOW 1" (25.4 mm) BETWEEN PROJECTION AND BOX.
4. INSIDE SURFACE OF EVERGUARD COATED METAL SEALANT BOX (BARE METAL SIDE) MUST BE CLEAN AND DRY BEFORE SEALANT IS APPLIED.
5. EXISTING PROJECTION MUST BE CLEANED AND FREE OF ANY INSULATING MATERIALS.
6. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.
7. POURABLE SEALANT IS CONSIDERED A MAINTENANCE ITEM AND IS EXCLUDED FROM GUARANTEE COVERAGE.

GAF

COATED METAL SEALANT BOX PENETRATION FLASHING

LEGEND

HEAT-WELDED LAP (SEE NOTE #5)

DRAWING #
509

THIS DETAIL APPLIES TO:

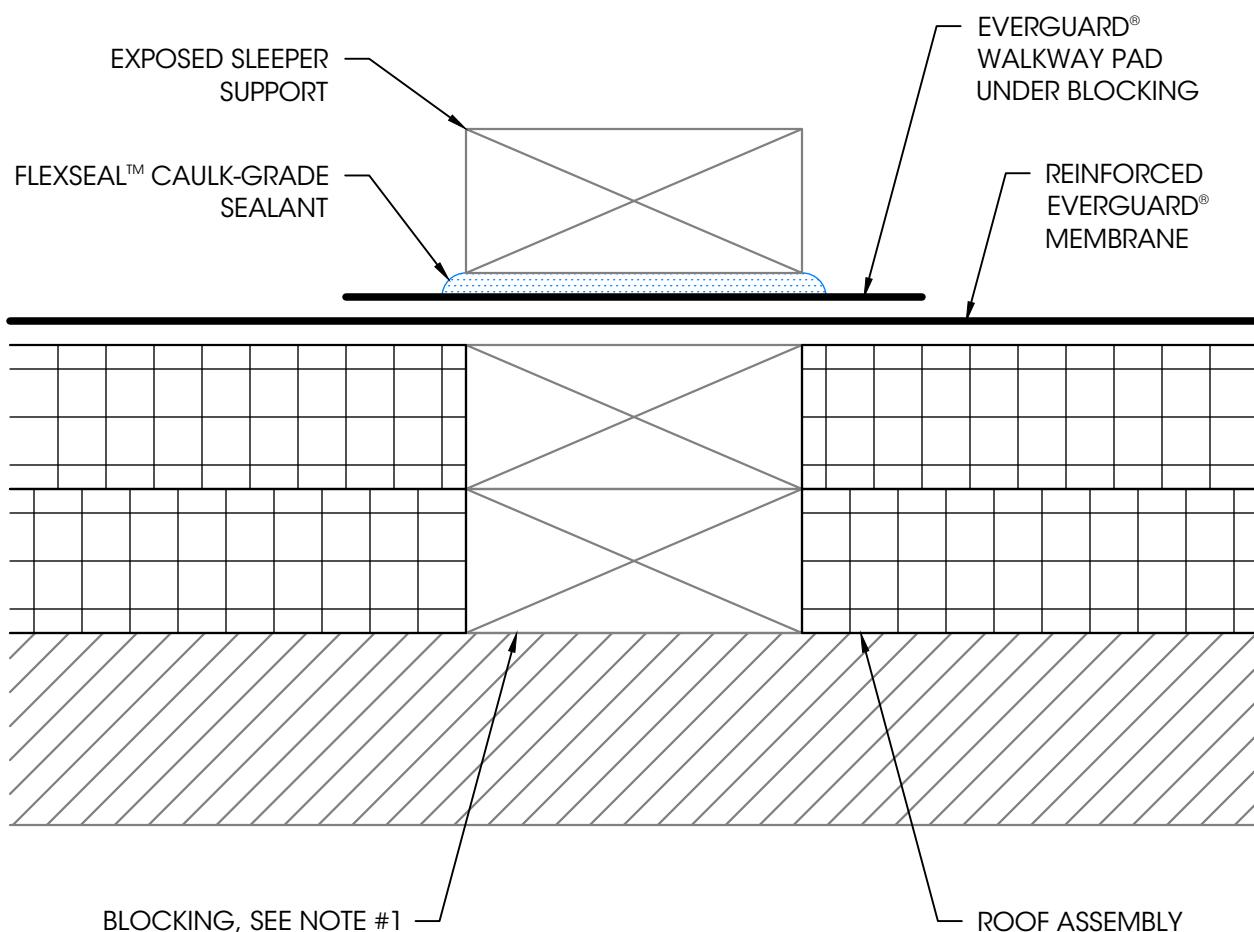
ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

8/17/20

N.T.S.

**Notes:**

1. Blocking below the membrane is optional when the compressive strength of the roof boards is sufficient to carry the equipment weight.

LEGEND

SEALANT

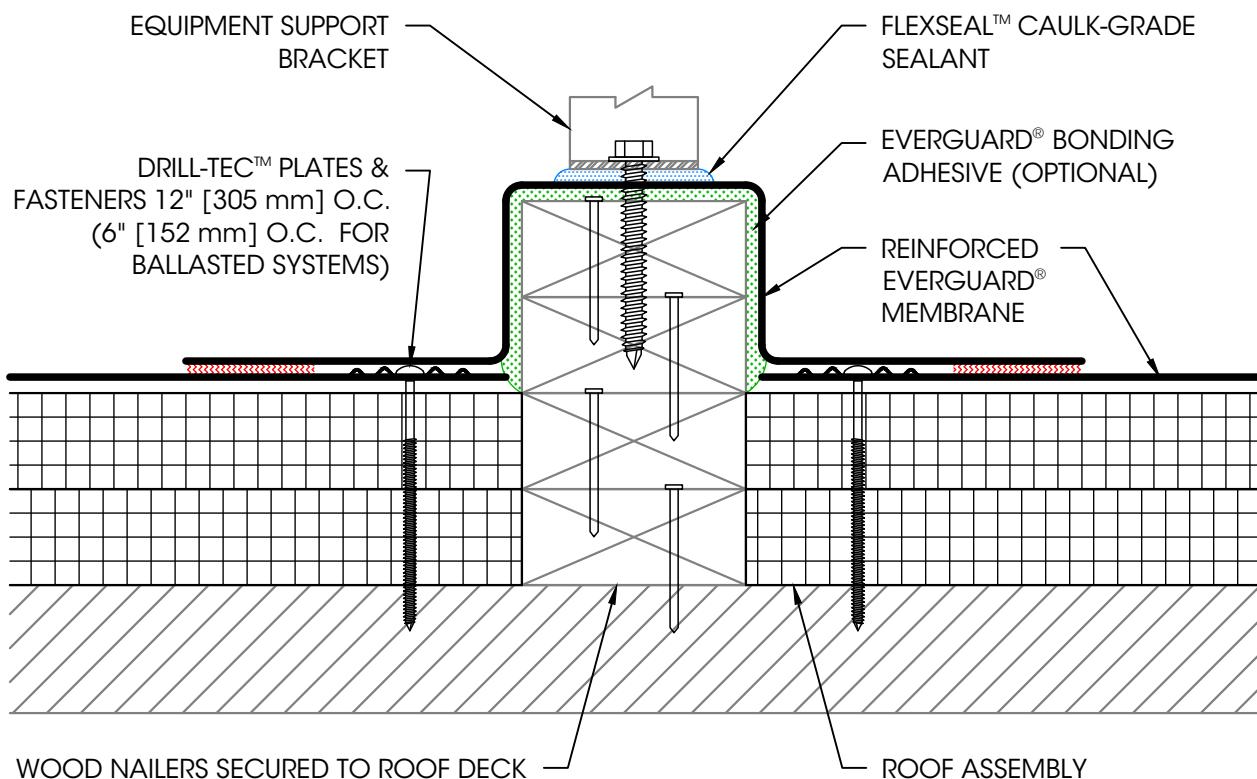
Exposed Sleeper Support Installation

Roof Area:

Detail No:

Issue Date:
7/23/24Scale:
6" = 1'

511

**Notes:**

1. For heat-welded laps, use a 1-1/2" [38 mm] wide weld with machine automatic welders and a 2" [51 mm] wide weld with hand welders.

Legend

| | |
|--|-----------|
| | Heat Weld |
| | Adhesive |
| | Sealant |

Concealed Equipment Support Sleeper

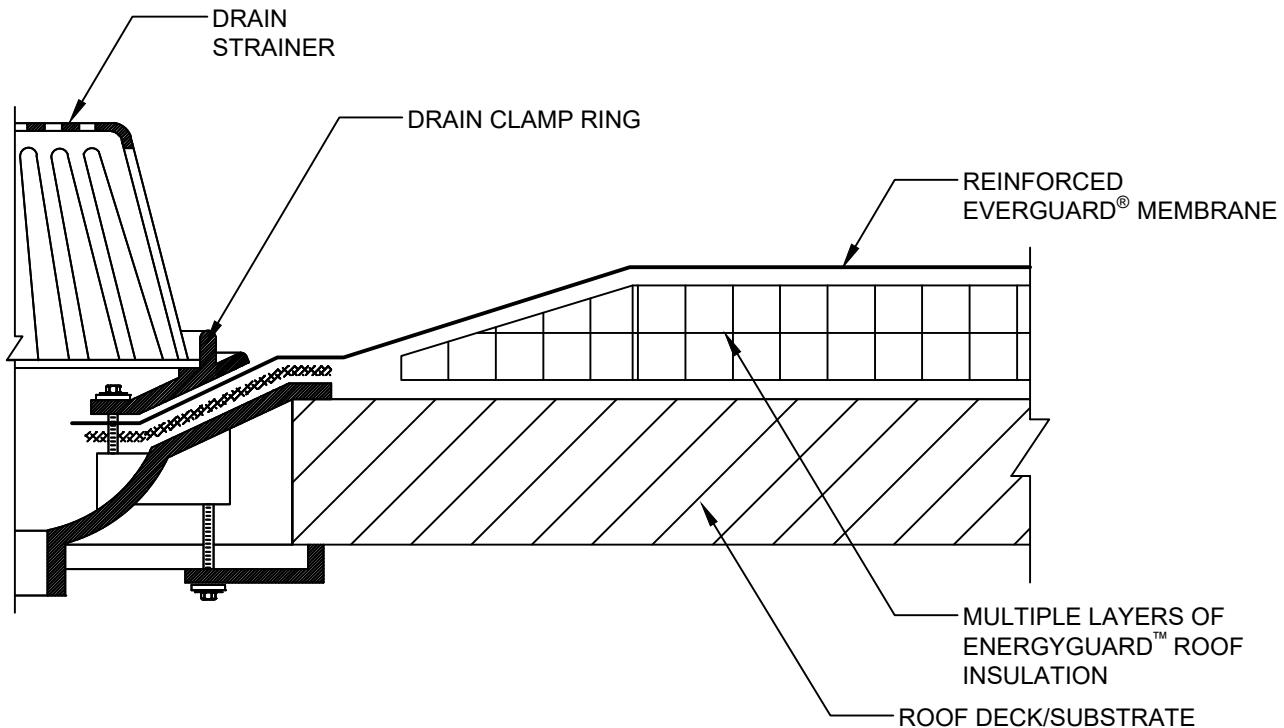
Roof Area:

Detail No:

Issue Date: 7/23/24

Scale: N.T.S

512



NOTE:

1. A FIELD WELD CANNOT PASS WITHIN 9" (227 mm) OF THE CLAMPING, OR WITHIN THE DRAIN SUMP ITSELF.
2. MEMBRANE MUST EXTEND MINIMUM 1" (25.4 mm) BEYOND THE BOLT HOLES. THE CLAMPING RING BOLTS MUST PENETRATE THE MEMBRANE.
3. TAPERED INSULATION TO CREATE A ROOF SUMP MINIMUM 36" (0.914 m) x 36" (0.914 m) IN SIZE. (IF APPLICABLE).
4. USE ONE FULL TUBE OF FLEXSEAL CAULK GRADE SEALANT OR EVERGUARD[®] WATER BLOCK PER DRAIN.
5. ASPHALT OR STONE PAVER MUST STOP AT DRAIN TAPER.

GAF

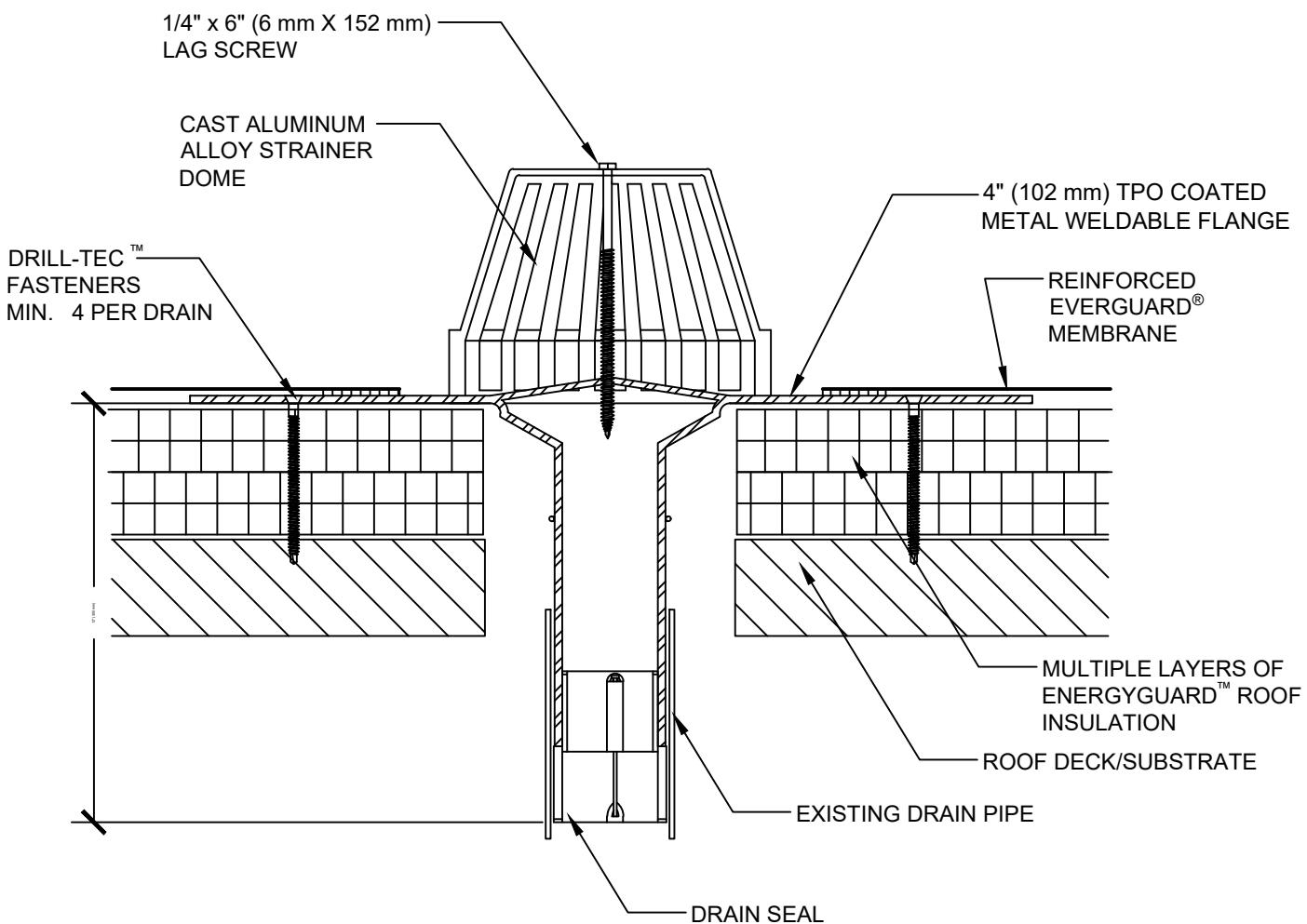
DRAIN -STANDARD ROOF DRAIN FLASHING DETAIL

DRAWING #
513A

| | | |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
| ALL SYSTEMS | 4/30/21 | N.T.S. |

LEGEND

 EVERGUARD[®] WATER-BLOCK OR FLEXSEAL[™] CAULK GRADE SEALANT

**NOTE:**

1. EXISTING DRAIN PIPE SHALL BE CLEAN OF ALL DEBRIS THROUGH THE LENGTH OF THE TUBE TO ENSURE PROPER SEAL.
2. EVERGUARD® PRE FABRICATED DRAIN ONLY TO BE USED AS A RETROFIT DRAIN.
3. REFER TO PRODUCT APPLICATION INSTRUCTIONS FOR DRAIN PIPE SECUREMENT.

GAF**DRAIN - EVERGUARD® TPO COATED DRAIN DETAIL**DRAWING #
514

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

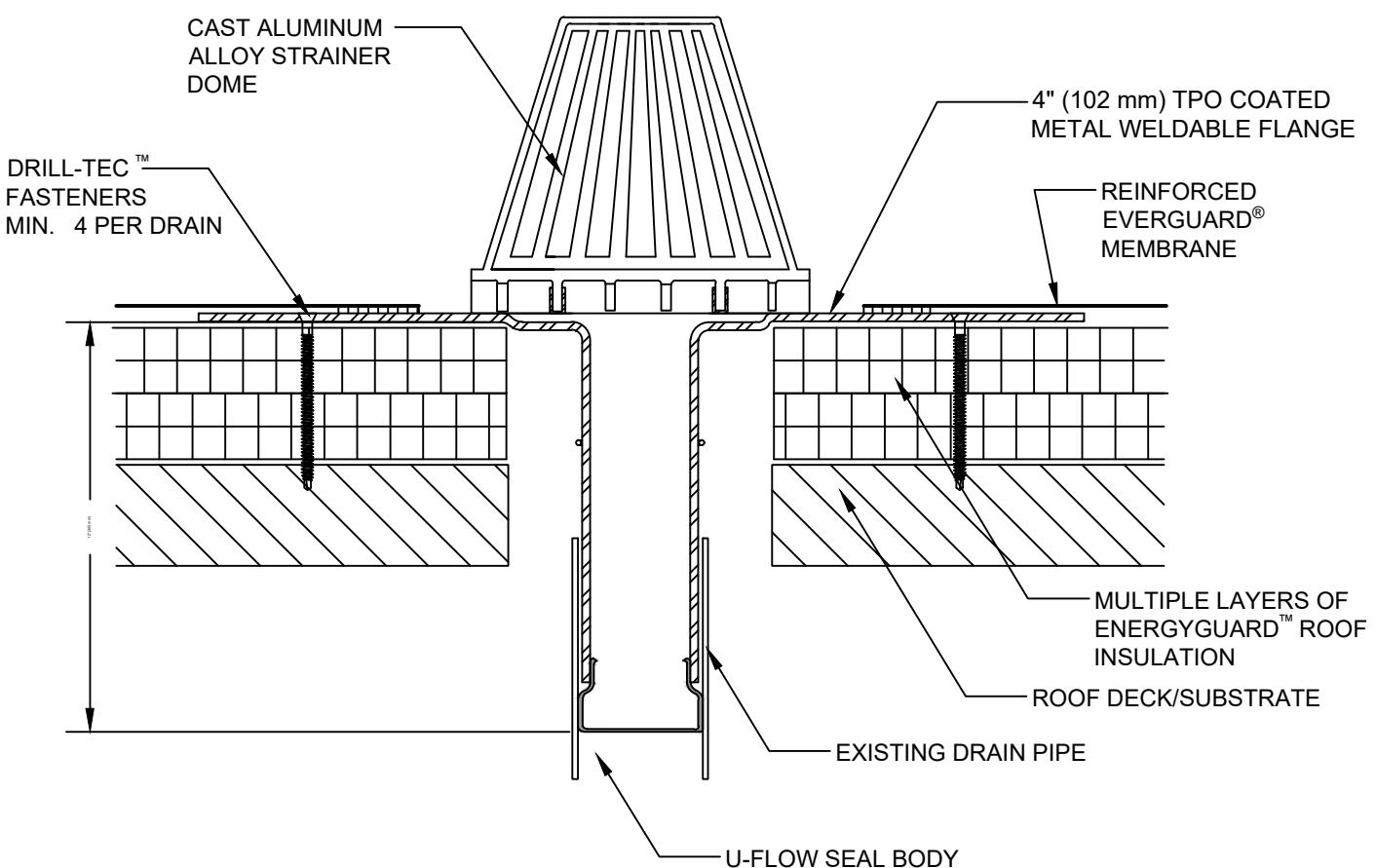
8/17/20

SCALE

N.T.S.

LEGEND

MIN 2" (51 mm) HEAT WELD LAP



NOTE:

1. EXISTING DRAIN PIPE SHALL BE CLEAN OF ALL DEBRIS THROUGH THE LENGTH OF THE TUBE TO ENSURE PROPER SEAL.
2. HERCULES® RETRODRAIN ONLY TO BE USED AS A RETROFIT DRAIN.
3. REFER TO PRODUCT APPLICATION INSTRUCTIONS FOR DRAIN PIPE SECUREMENT.

GAF

DRAIN - HERCULES® COATED METAL DRAIN DETAIL

LEGEND

DRAWING #
515

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

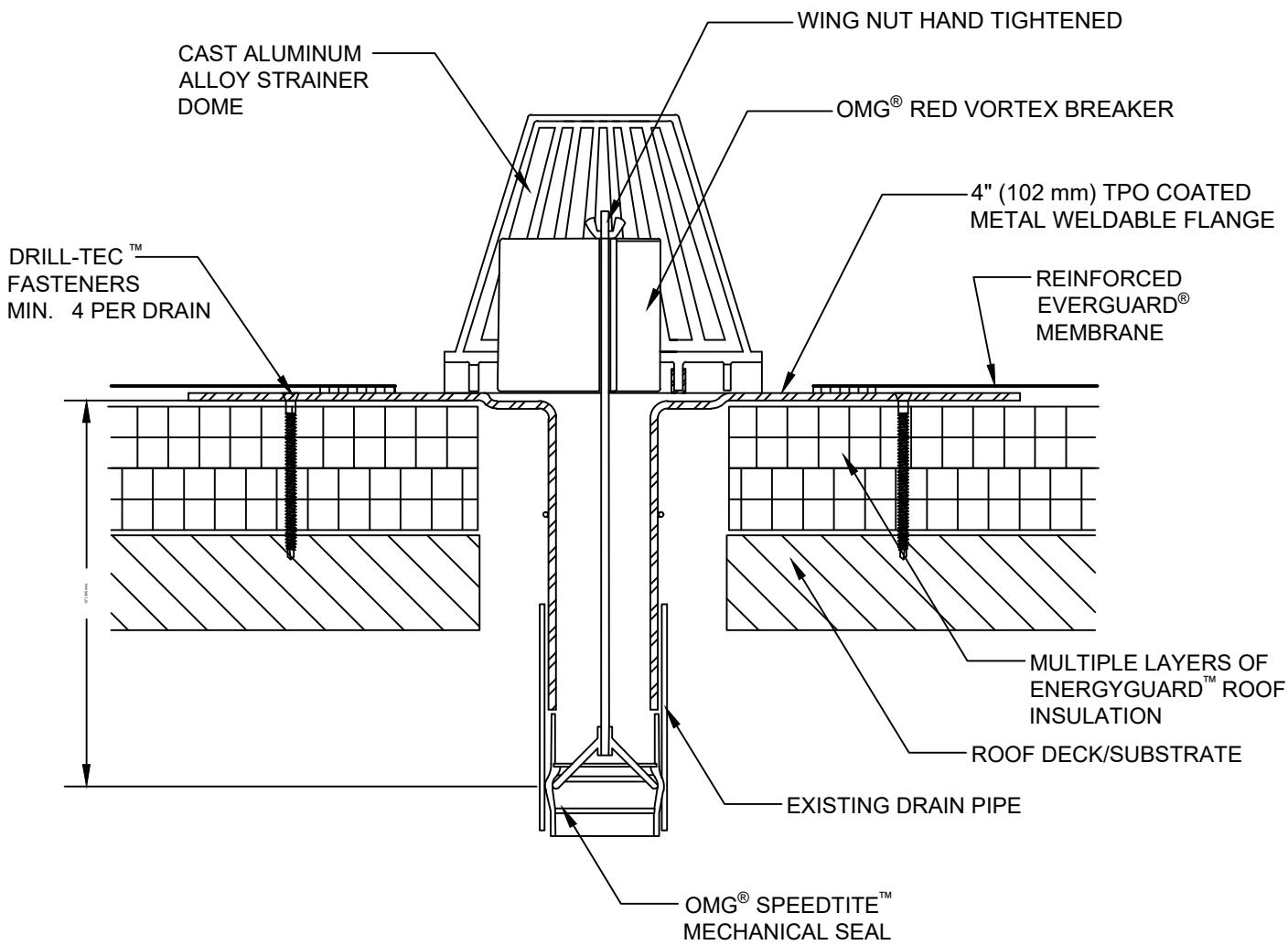
SCALE

ALL SYSTEMS

8/17/20

N.T.S.

MIN 2" (51 mm) HEAT WELD LAP



NOTE:

1. EXISTING DRAIN PIPE SHALL BE CLEAN OF ALL DEBRIS THE LENGTH OF THE TUBE TO ENSURE PROPER SEAL.
2. OMG® SPEEDTITE™ DRAIN ONLY BE USED AS A RETROFIT DRAIN.
3. REFER TO PRODUCT APPLICATION INSTRUCTION FOR DRAIN PIPE SECUREMENT.

GAF

DRAIN - OMG® SPEEDTITE™ COATED METAL DRAIN DETAIL

LEGEND

DRAWING #
516

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

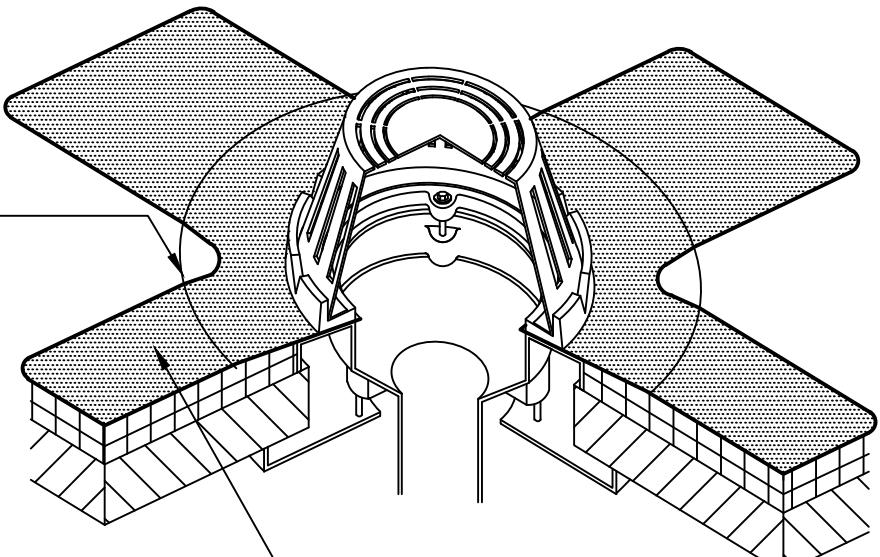
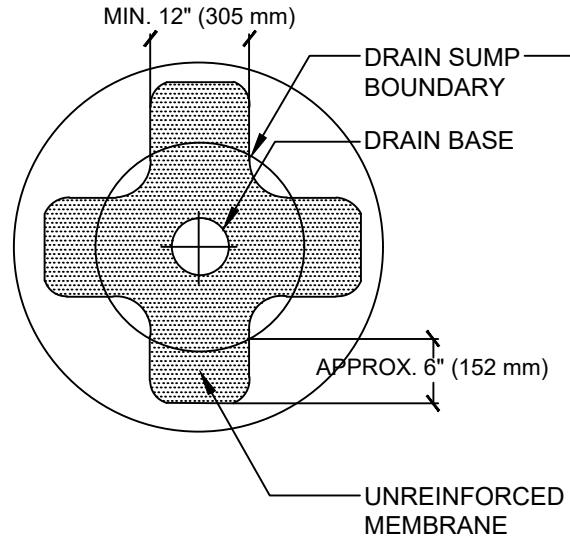
SCALE

ALL SYSTEMS

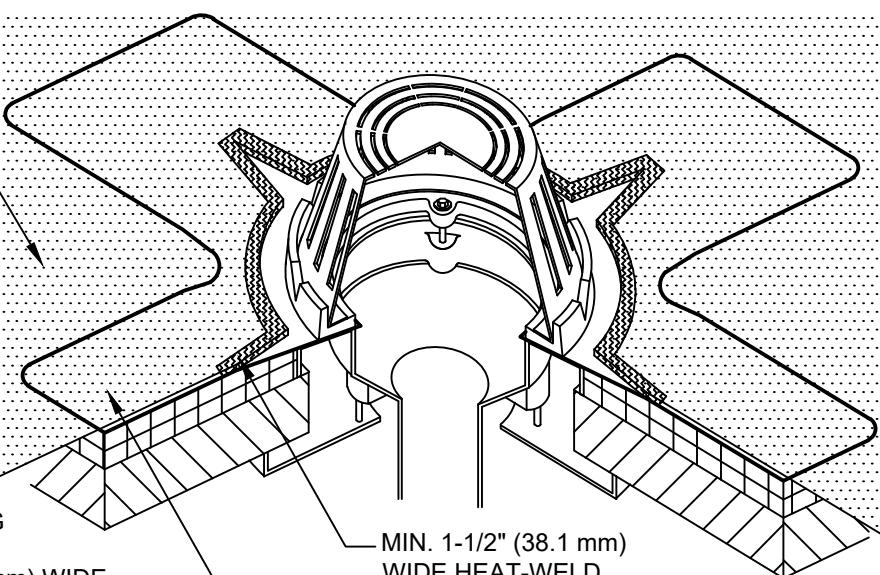
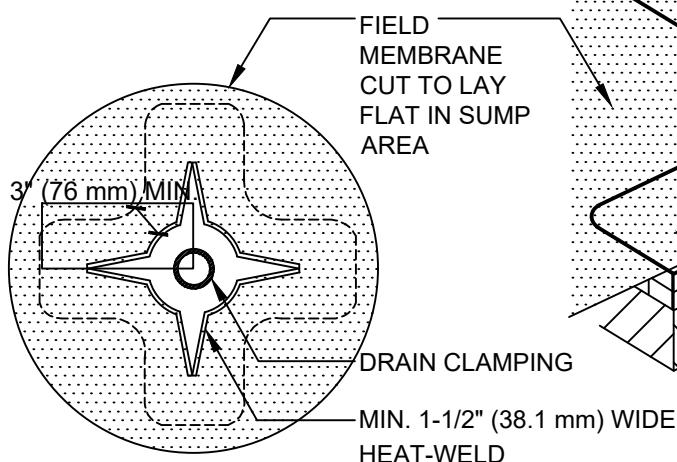
8/17/20

N.T.S.

MIN 2" (51 mm) HEAT WELD LAP



CUT SECTION OF UNREINFORCED MEMBRANE AS SHOWN AND POSITIONED INTO DRAIN SUMP. EXTEND MEMBRANE OUT OF DRAIN SUMP APPROX. 6" (152 mm).



EXTEND REINFORCED EVERGUARD® MEMBRANE ONTO MEMBRANE SECTION POSITIONED AT DRAIN SUMP AND CUT AS SHOWN TO LAY FLAT IN SUMP. HOT AIR WELD A MIN.OF 2" (52 mm) COMPLETELY SURROUNDING AREA.



DRAIN- SEVERE SUMP TARGET

DRAWING #
518

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/17/20

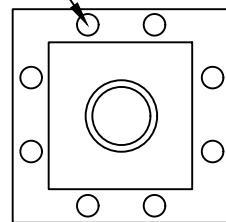
SCALE

N.T.S.

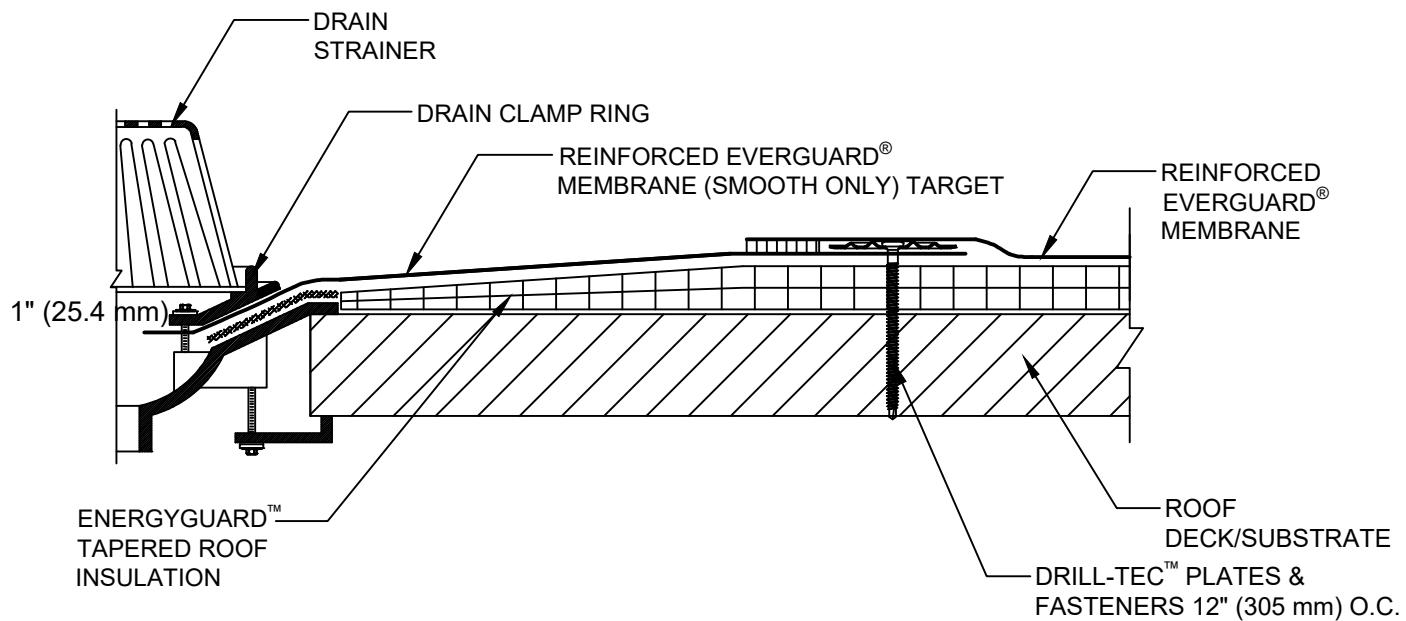
LEGEND

MIN. 1-1/2" (38.1 mm) WIDE HEAT-WELD

DRILL-TEC™ PLATES &
FASTENERS 12" (305 mm) O.C.



PLAN VIEW



NOTE:

1. A FIELD WELD CANNOT PASS WITHIN 9" (229 mm) OF THE CLAMPING, OR WITHIN THE DRAIN SUMP ITSELF.
2. MEMBRANE MUST EXTEND MINIMUM 1" (25.4 mm) BEYOND THE BOLT HOLES; THE CLAMPING RING BOLTS MUST PENETRATE THE MEMBRANE.
3. TAPER INSULATION TO CREATE A ROOF SUMP MINIMUM 36" x 36" (0.914 m x 0.914 m) IN SIZE IF APPLICABLE.
4. IF ASPHALT OR ASPHALTIC PRODUCT IS PRESENT, STOP AT BEGINNING OF SUMP AND FLASH WITH SMOOTH TPO.
5. DO NOT RUN SEPARATION SHEET INTO BOWL AREA IF USED IN SYSTEM.

GAF

DRAIN- PRE TARGET

DRAWING #
519

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/17/20

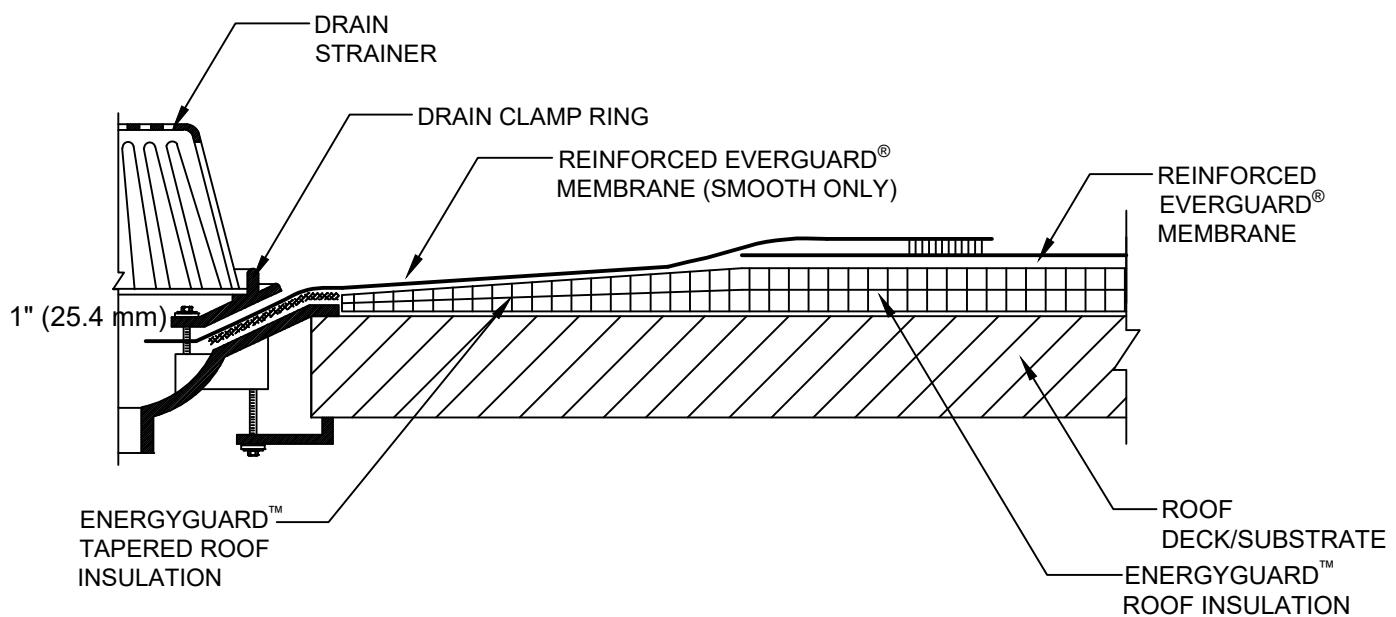
SCALE

N.T.S.

LEGEND

HEAT-WELDED

EVERGUARD® WATER-BLOCK OR FLEXSEAL™
CAULK GRADE SEALANT



NOTE:

1. A FIELD WELD CANNOT PASS WITHIN 9" (229 mm) OF THE CLAMPING, OR WITHIN THE DRAIN SUMP ITSELF.
2. MEMBRANE MUST EXTEND MINIMUM 1" (25.4 mm) BEYOND THE BOLT HOLES; THE CLAMPING RING BOLTS MUST PENETRATE THE MEMBRANE.
3. TAPER INSULATION TO CREATE A ROOF SUMP MINIMUM 36" x 36" (0.914 m x 0.914 m) IN SIZE IF APPLICABLE.
4. IF ASPHALT OR ASPHALTIC PRODUCT IS PRESENT, STOP AT BEGINNING OF SUMP AND FLASH WITH SMOOTH TPO.
5. DO NOT RUN SEPARATION SHEET INTO BOWL AREA IF USED IN SYSTEM.

GAF

DRAIN - POST TARGET

DRAWING #
520

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/17/20

SCALE

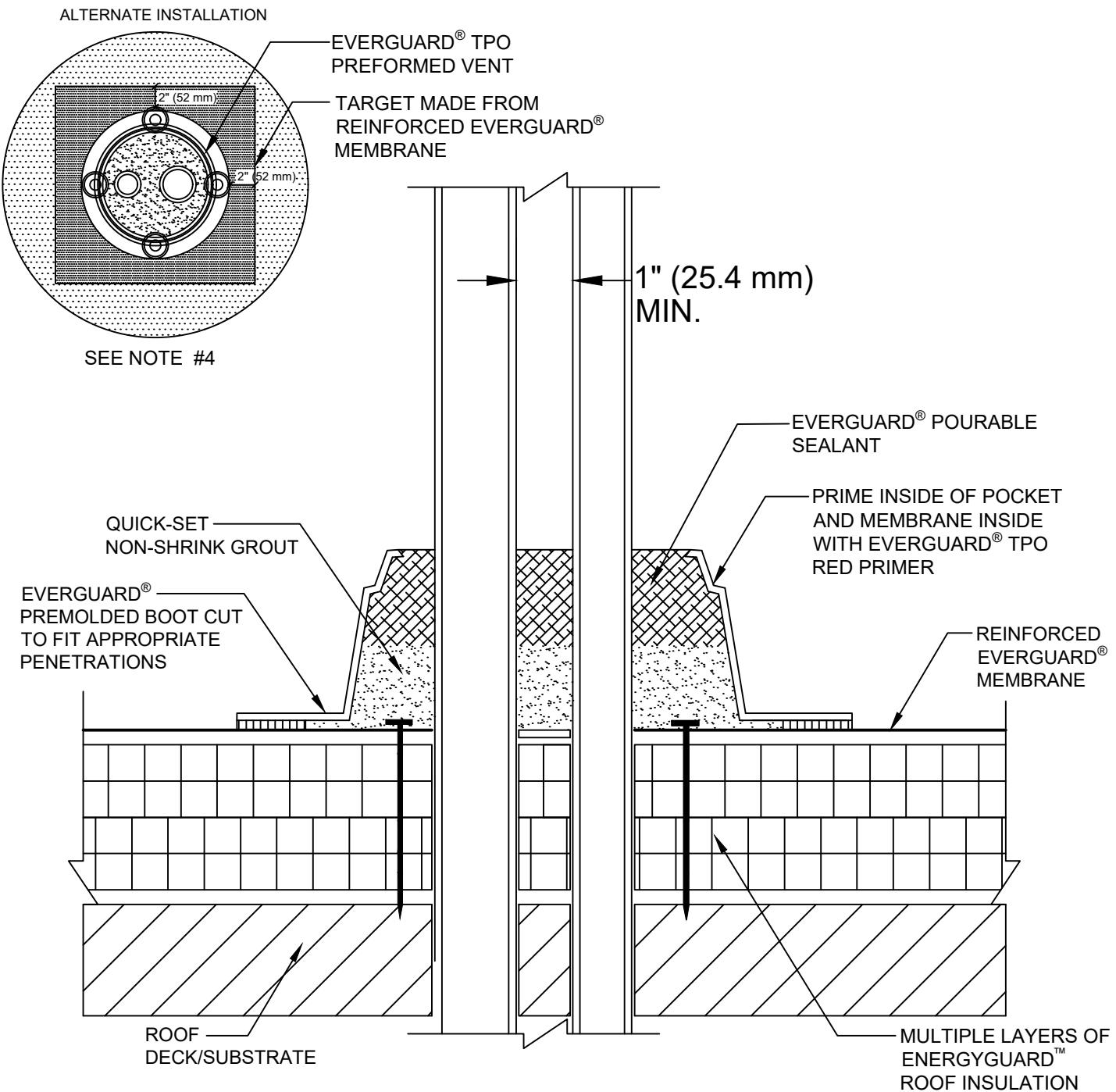
N.T.S.

LEGEND

HEAT-WELDED

EVERGUARD® WATER-BLOCK OR FLEXSEAL™ CAULK GRADE SEALANT

SINGLE-PLY: TPO & PVC



GAF

PREFORMED PENETRATION FLASHING DETAIL

LEGEND

DRAWING #
522

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

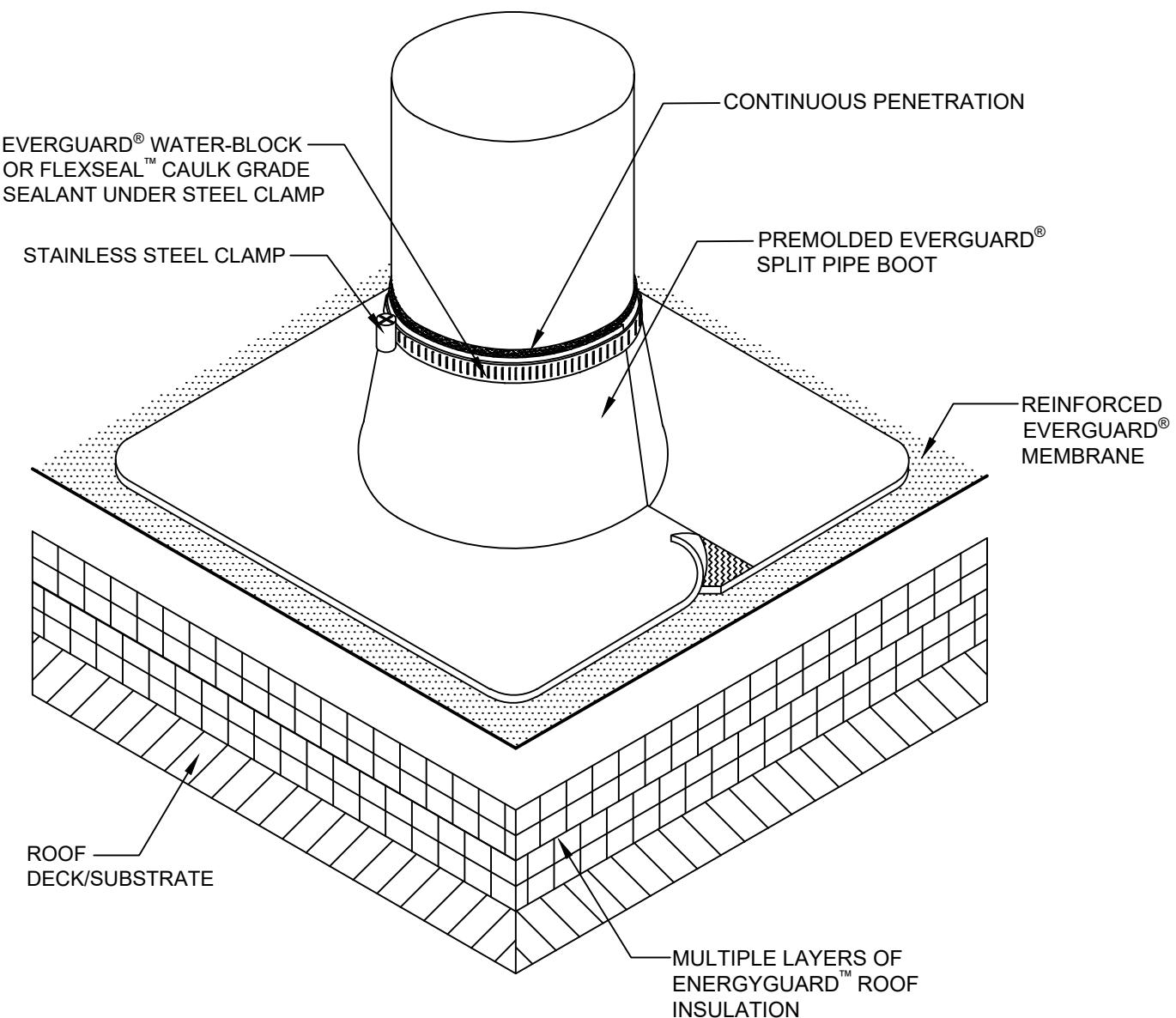
SCALE

ALL SYSTEMS

8/17/20

N.T.S.

HEAT-WELDED LAP



NOTE:

1. FOUR DRILL-TEC™ PLATES & SCREWS AROUND PENETRATION.
2. IF PLATES AND FASTENERS ENCROACH INTO THE SEAM AREA OF THE POCKET, THEN A TARGET MUST BE ADDED FIRST TO COVER FASTENERS.
3. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES.

GAF

SPLIT PIPE BOOT DETAIL

DRAWING #
524

THIS DETAIL APPLIES TO:

ALL SYSTEMS

ISSUE / REVISION DATE

8/17/20

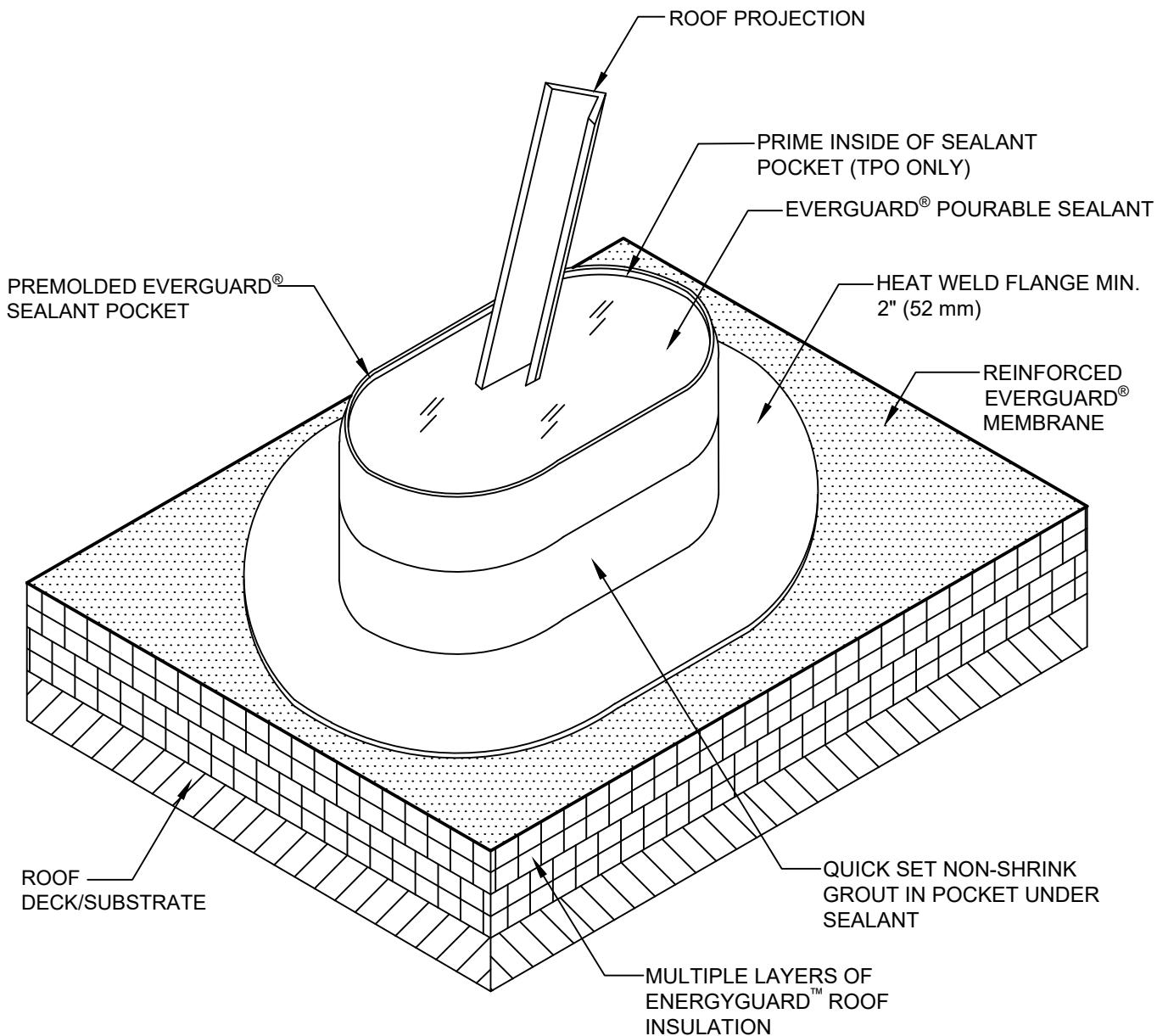
SCALE

N.T.S.

LEGEND

HEAT WELDED LAP

FLEXSEAL™ CAULK GRADE SEALANT



NOTE:

1. ALLOW 2" (52 mm) CLEARANCE AROUND THE PROJECTION. IF MULTIPLE PROJECTIONS, ALLOW 1" (25.4 mm) BETWEEN PROJECTION AND POCKET.
2. THE EXISTING PROJECTION MUST BE CLEAN OF ALL DEBRIS BEFORE INSTALLATION.
3. FOUR DRILL-TEC™ PLATES & SCREWS INSERTED AROUND PENETRATION.
4. EVERGUARD® POURABLE SEALER POCKET MUST BE PRIMED WITH EVERGUARD® TPO PRIMER (TPO ONLY).
5. IF SEALANT POCKET MUST BE CUT, STRIP IN CUT WITH UNREINFORCED TPO OR PVC STRIP MIN 4" (102 mm) WIDE AND RUN OUT ONTO DECK SHEET MINIMUM 2" (52 mm).
6. 25 YEAR GUARANTEES AND ABOVE MUST USE EXTREME ACCESSORIES (TPO ONLY).
7. IF PLATES AND FASTENERS ENCROACH INTO THE SEAM AREA OF THE POCKET, THEN A TARGET MUST BE ADDED FIRST TO COVER FASTENERS.
8. POURABLE SEALANT IS CONSIDERED A MAINTENANCE ITEM AND IS EXCLUDED FROM GUARANTEE COVERAGE.

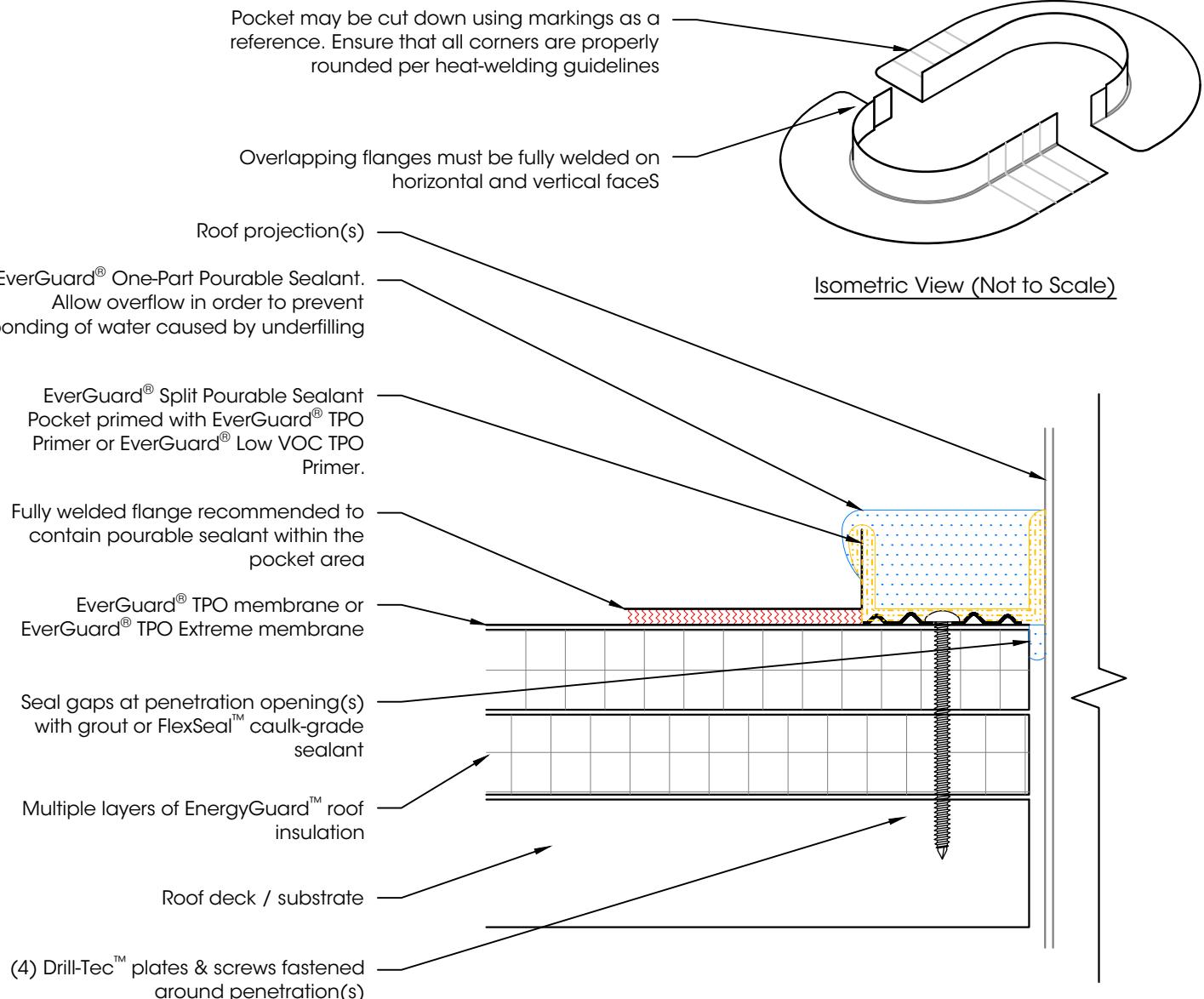
GAF

POURABLE SEALANT POCKET DETAIL

LEGEND

DRAWING #
525

| | | |
|-------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
| ALL SYSTEMS | 8/17/20 | N.T.S. |

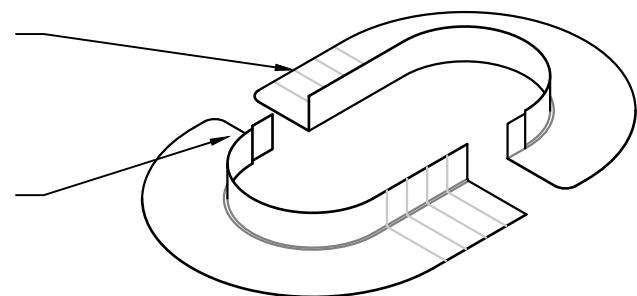


NOTES:

1. Split Pourable Sealant Pocket is available in and can be installed on EverGuard® TPO and EverGuard Extreme® TPO.
2. Allow 2" [52 mm] clearance around the projection; if multiple projections exist, allow 1" [25.4 mm] between the projection(s) & pocket.
3. The existing projection(s) must be clean of all debris & primed prior to installation.
4. Four Drill-Tec™ plates & screws must be fastened around penetration.
5. If plates and fasteners encroach into the seam area of the pocket, then a target patch must be added first to cover the fasteners.
6. Pourable sealant is considered a maintenance item and is excluded from guarantee coverage.

| LEGEND | | Split Pourable Sealant Pocket | | | Detail |
|--------|-----------|-------------------------------|--|------------|---------|
| | HEAT WELD | | | | |
| | SEALANT | | | | |
| | PRIMER | | | | |
| | | Roof Area | | Issue Date | Scale |
| | | Penetrations | | 7/25/23 | 6" = 1' |
| | | | | | 525A |

Pocket may be cut down using markings as a reference. Ensure that all corners are properly rounded per heat-welding guidelines



Isometric View (Not to Scale)

EverGuard® One-Part Pourable Sealant.
Allow overflow in order to prevent bonding of water caused by underfilling

EverGuard® Split Pourable Sealant
Pocket primed with EverGuard® TPO Primer or EverGuard® Low VOC TPO Primer.

To contain pourable sealant within the pocket area, provide a base layer of quick set grout **OR** seal all gaps with a bead of FlexSeal™ caulk-grade sealant

EverGuard® TPO membrane or EverGuard® TPO Extreme membrane

Seal gaps at penetration opening(s) with grout or FlexSeal™ caulk-grade sealant

Multiple layers of EnergyGuard™ roof insulation

Roof deck / substrate

(4) Drill-Tec™ plates & screws fastened around penetration(s)

NOTES:

1. Split Pourable Sealant Pocket is available in and can be installed on EverGuard® TPO and EverGuard Extreme® TPO.
2. Allow 2" [52 mm] clearance around the projection; if multiple projections exist, allow 1" [25.4 mm] between the projection(s) & pocket.
3. The existing projection(s) must be clean of all debris & primed prior to installation.
4. Four Drill-Tec™ plates & screws must be fastened around penetration.
5. If plates and fasteners encroach into the seam area of the pocket, then a target patch must be added first to cover the fasteners.
6. Pourable sealant is considered a maintenance item and is excluded from guarantee coverage.

LEGEND

| | |
|--|-----------|
| | HEAT WELD |
| | SEALANT |
| | PRIMER |

Split Pourable Sealant Pocket - Alternate Method

Detail

525B

Roof Area

Issue Date

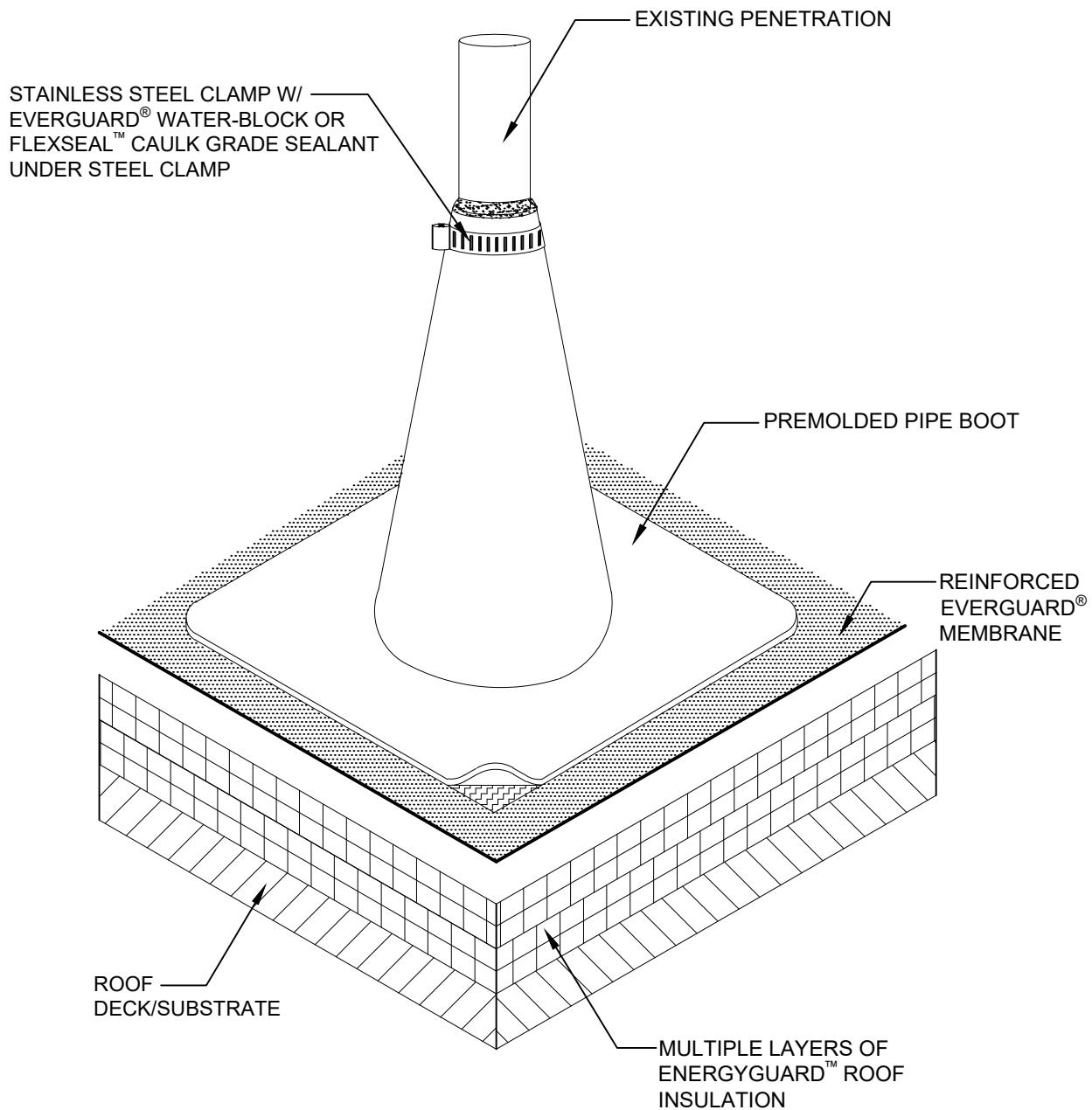
Scale

Penetrations

7/25/23

6" = 1'

SINGLE-PLY: PVC



NOTE:

1. FOUR DRILL-TEC™ PLATES & SCREWS AROUND PENETRATION.
2. IF PLATES AND FASTENERS ENCROACH INTO THE SEAM AREA OF THE POCKET, THEN A TARGET MUST BE ADDED FIRST TO COVER FASTENERS.
3. THIS PRODUCT IS AVAILABLE IN CUSTOM SIZES, VISIT GAF.COM FOR MORE INFORMATION.
4. THE EXISTING PROJECTION MUST BE CLEAN OF ALL DEBRIS BEFORE INSTALLATION.

GAF

NON-SPLIT CONICAL PIPE BOOT

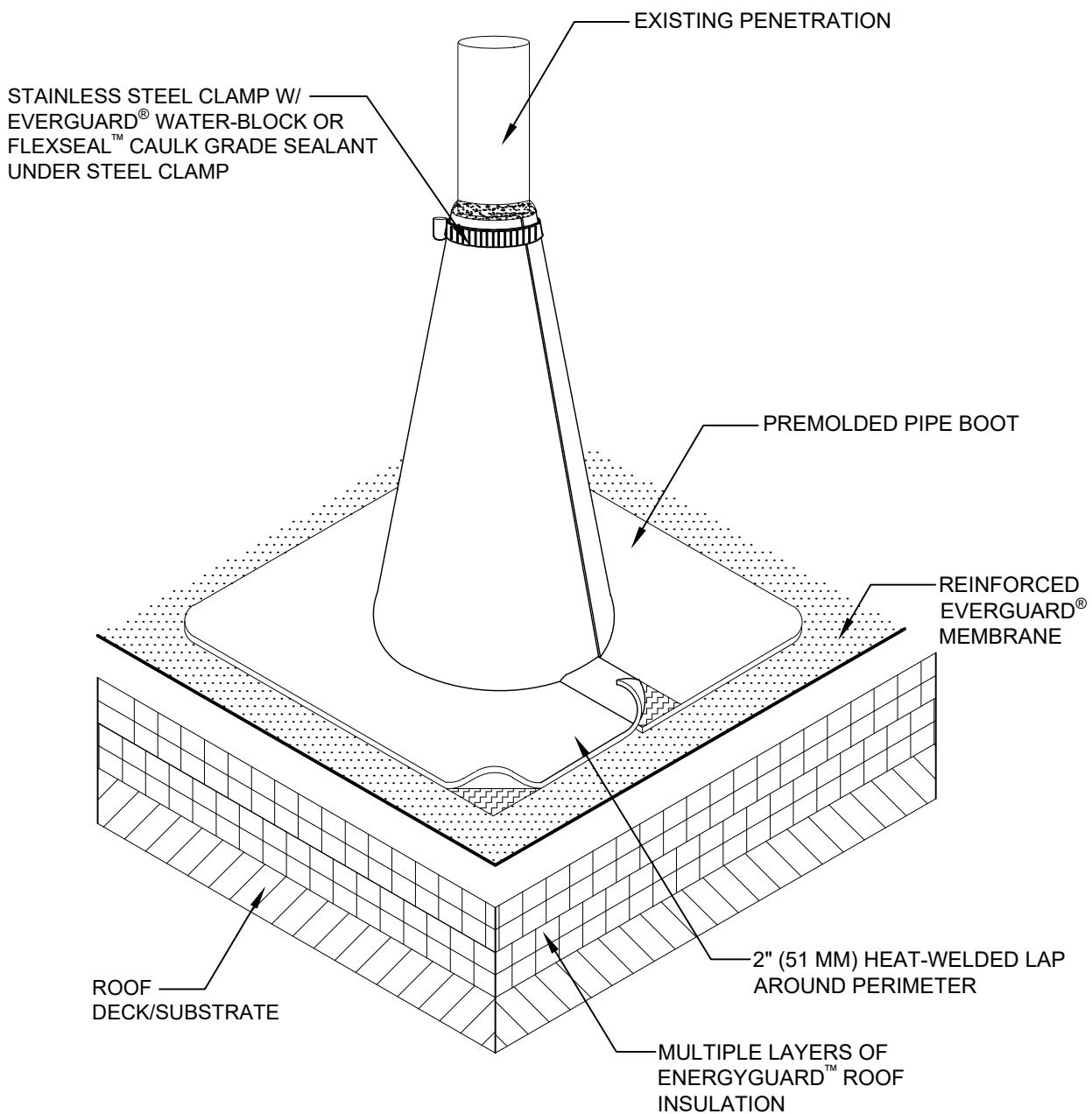
DRAWING #
526A

GAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411

LEGEND

| | |
|--|---|
| | 2" (51 MM) HEAT-WELDED LAP AROUND PERIMETER |
| | FLEXSEAL™ CAULK GRADE SEALANT |

SINGLE-PLY: PVC



NOTE:

1. FOUR DRILL-TEC™ PLATES & SCREWS AROUND PENETRATION.
2. IF PLATES AND FASTENERS ENCROACH INTO THE SEAM AREA OF THE POCKET, THEN A TARGET MUST BE ADDED FIRST TO COVER FASTENERS.
3. THIS PRODUCT IS AVAILABLE IN CUSTOM SIZES, VISIT GAF.COM FOR MORE INFORMATION.
4. THE EXISTING PROJECTION MUST BE CLEAN OF ALL DEBRIS BEFORE INSTALLATION.

GAF

NON-SPLIT CONICAL PIPE BOOT

DRAWING #
526B

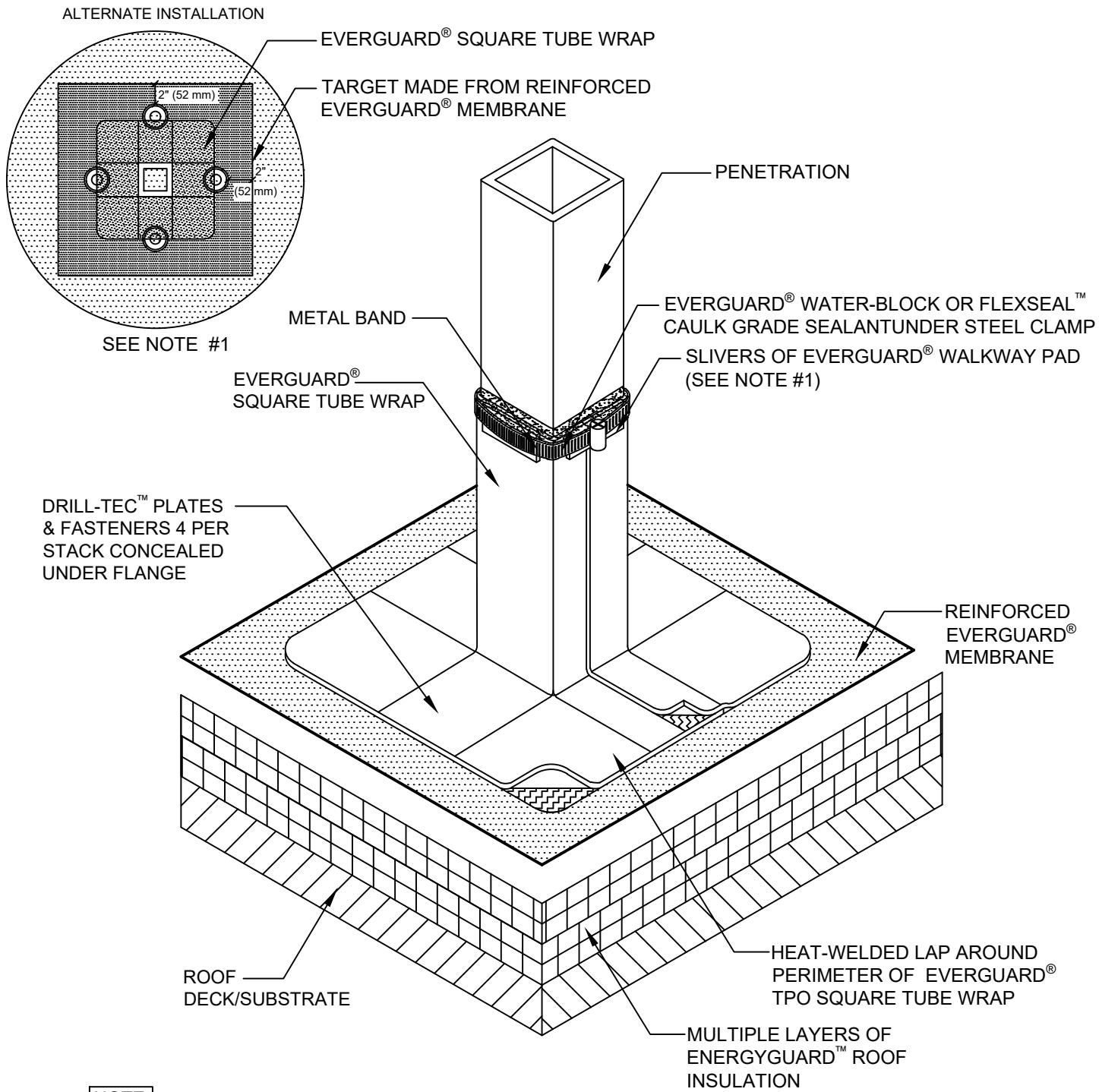
GAF • 1 Campus Drive Parsippany, NJ 07054 • www.gaf.com • technicalservices@gaf.com • 800-766-3411

LEGEND

HEAT-WELDED LAP

FLEXSEAL™ CAULK GRADE SEALANT

SINGLE-PLY: TPO & PVC



GAF

SQUARE TUBE WRAP DETAIL

DRAWING #
527

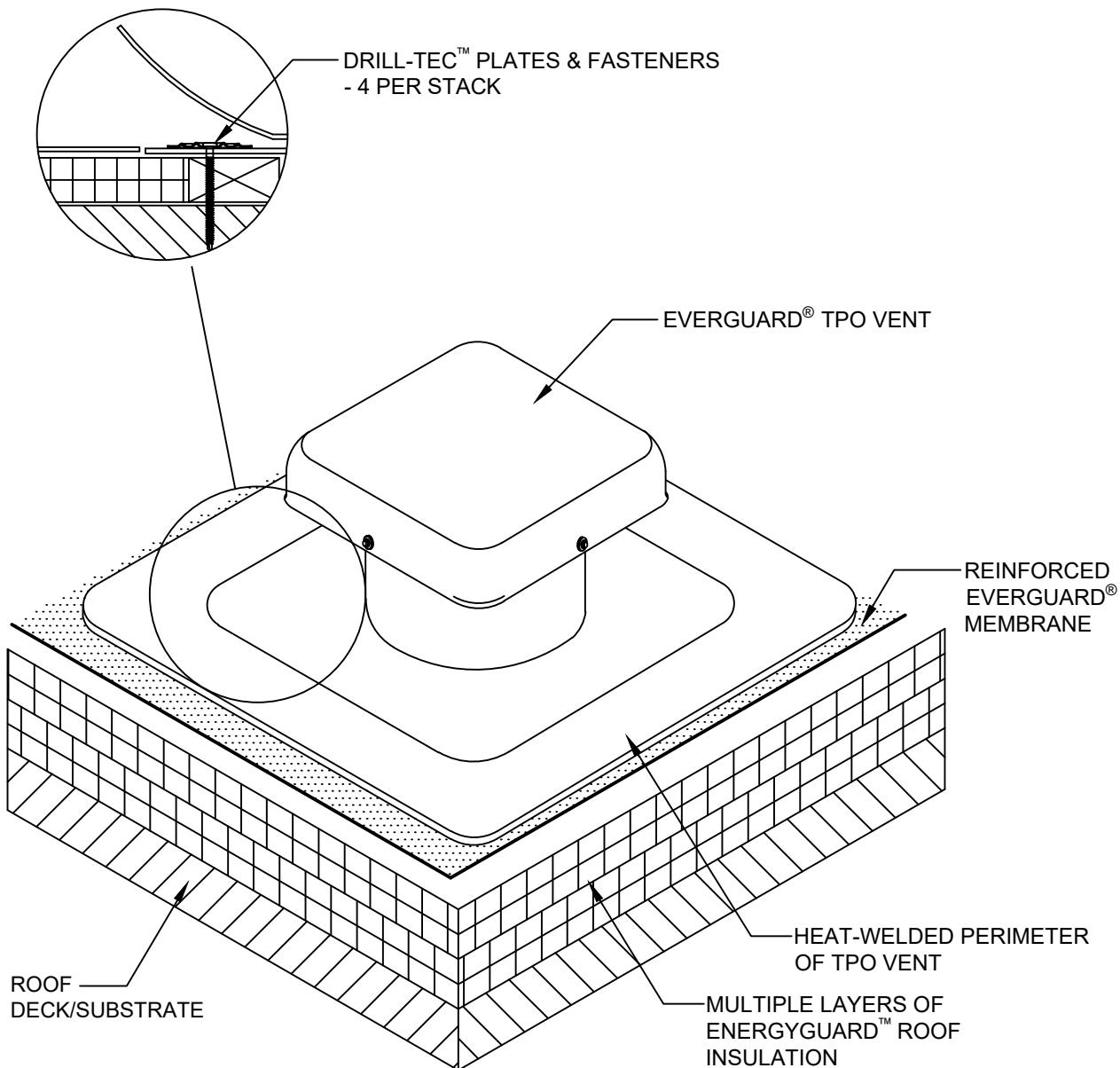
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

| | |
|--|-------------------------------|
| | HEAT-WELDED LAP |
| | FLEXSEAL™ CAULK GRADE SEALANT |



GAF

TPO VENT DETAIL

LEGEND

DRAWING #
528

THIS DETAIL APPLIES TO:

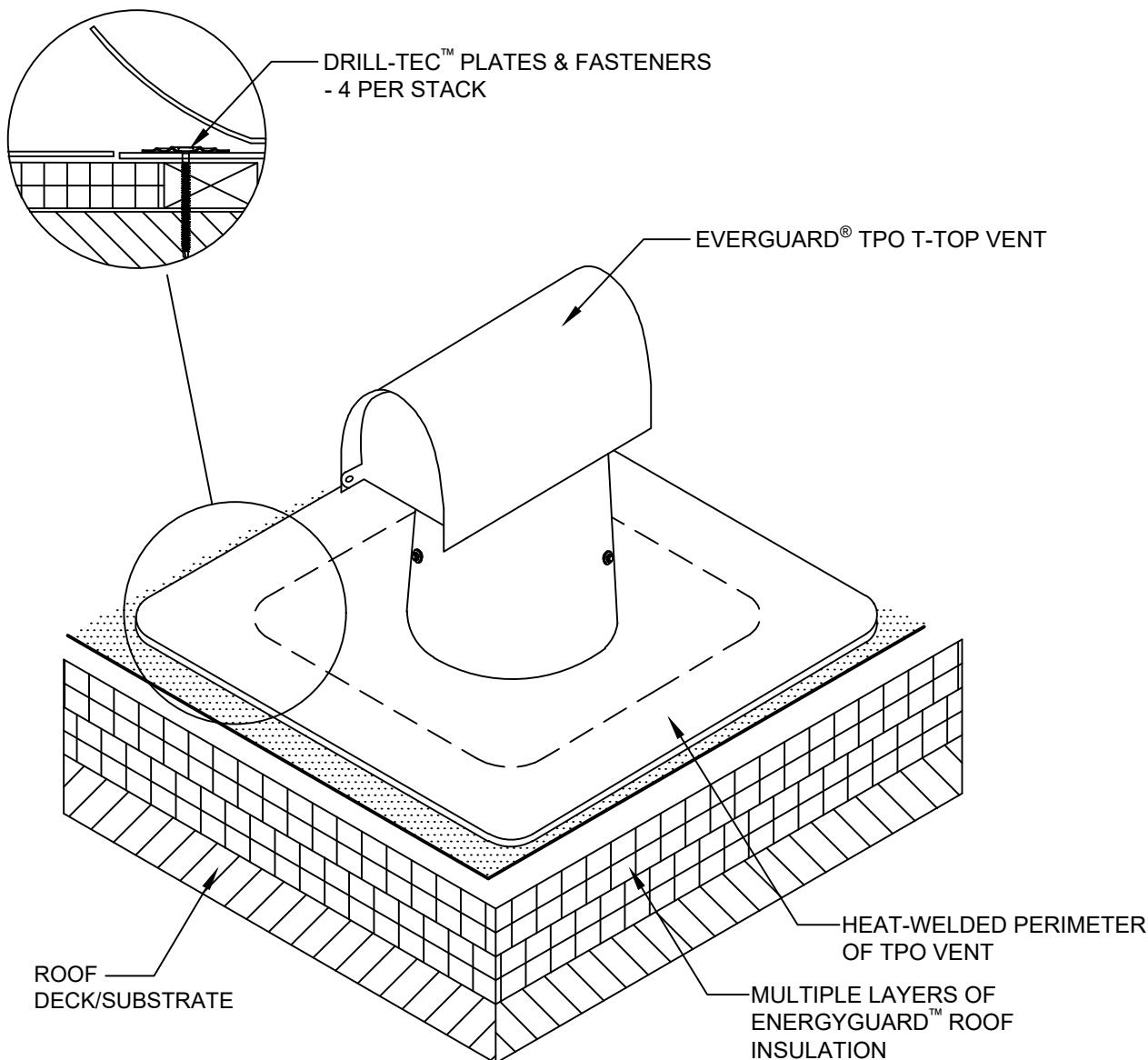
ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

8/17/20

N.T.S.

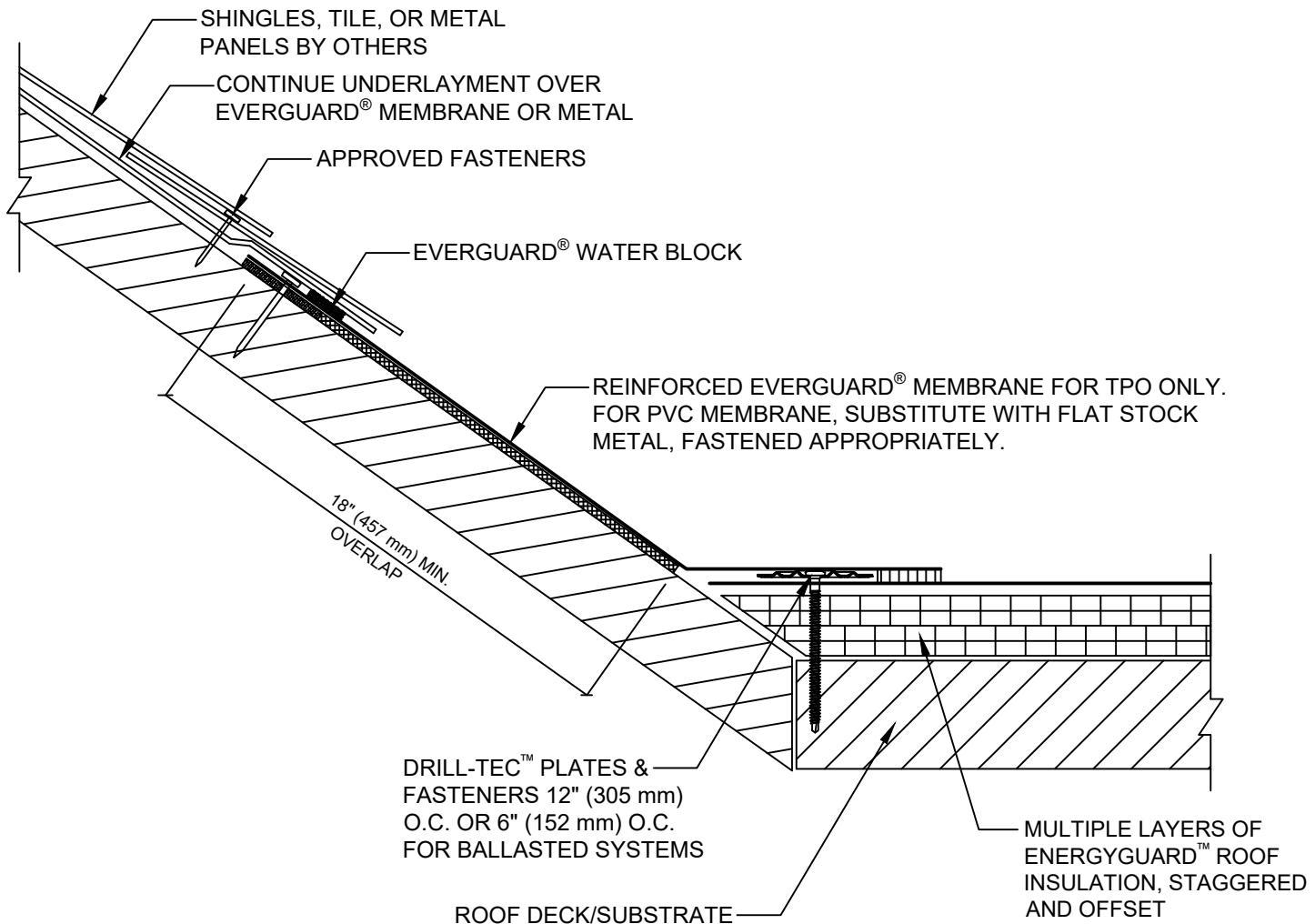


GAF

TPO T-TOP VENT DETAIL

DRAWING #
530THIS DETAIL APPLIES TO:
ALL SYSTEMSISSUE / REVISION DATE
8/17/20SCALE
N.T.S.

LEGEND



NOTE:

1. MINIMUM SLOPE IS 2:12.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.
3. ADD BALLAST PER SPECIFICATION FOR BALLASTED SYSTEMS.

GAF

STEEP-SLOPE TO LOW-SLOPE TRANSITION DETAIL

DRAWING #
601

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

ALL SYSTEMS

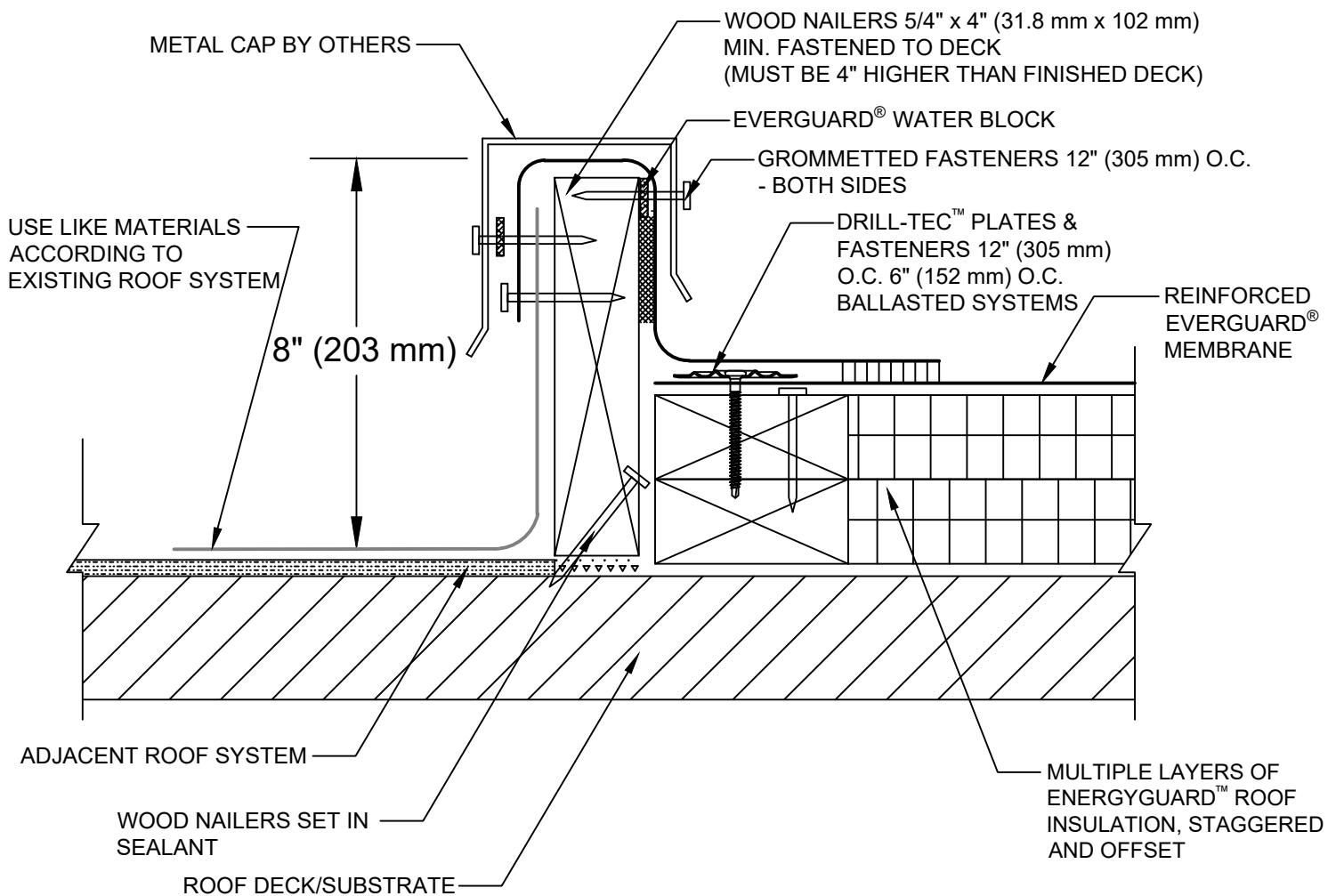
7/15/21

N.T.S.

LEGEND

HEAT-WELDED

 EVERGUARD® BONDING ADHESIVE
-OPTIONAL UP TO 30" (762 mm) FLASHING HEIGHT



GAF

CURB TYPE TIE-IN AT FLAT ROOF

DRAWING #
602

THIS DETAIL APPLIES TO:

ADHERED SYSTEMS
SELF-ADHERED SYSTEMS
REINFORCED SYSTEMS
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE

8/17/20

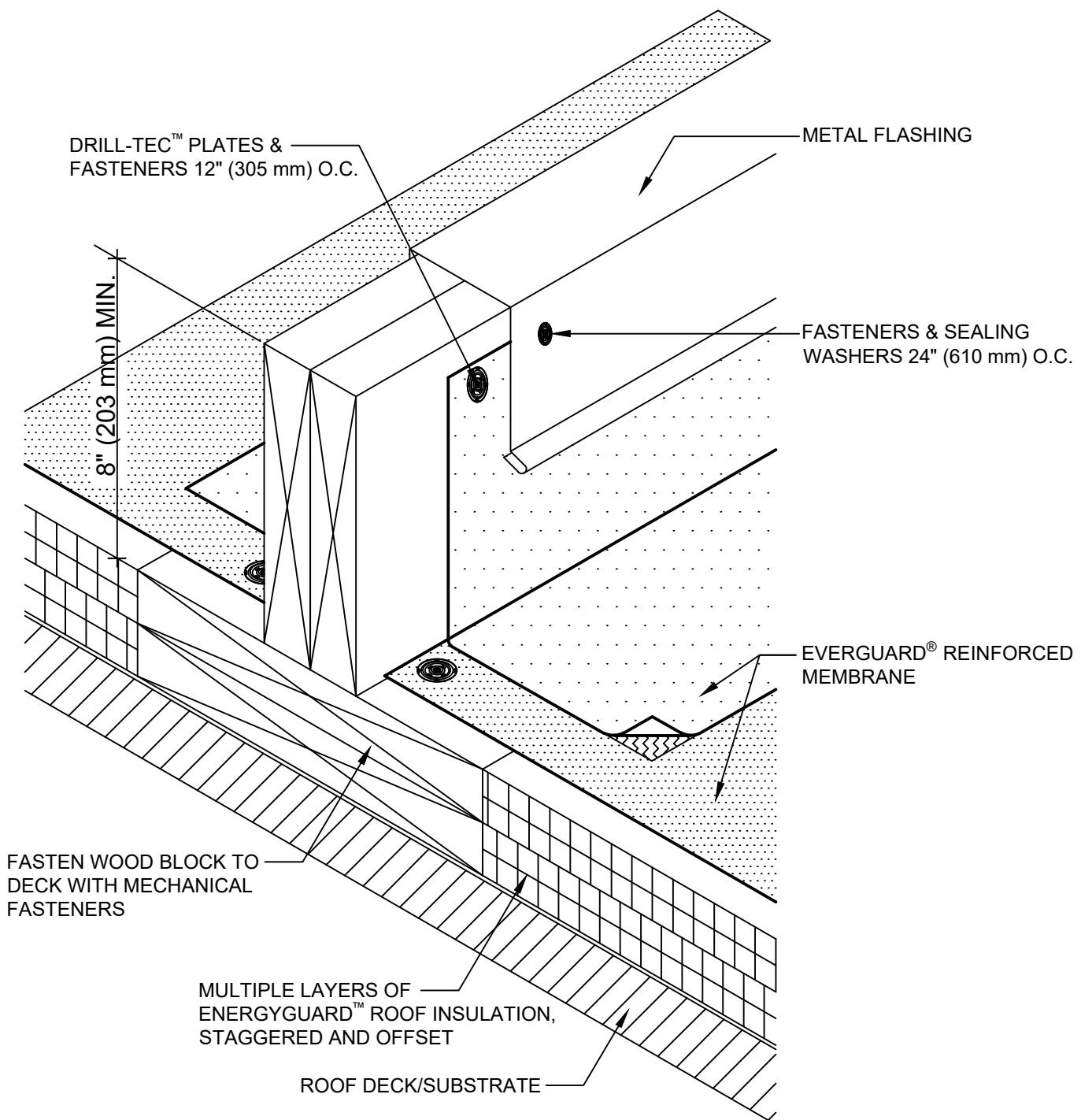
SCALE

N.T.S.

LEGEND

HEAT-WELDED

EVERGUARD® BONDING ADHESIVE (OPTIONAL)



NOTE:

1. AN AREA DIVIDER IS DESIGNED SIMPLY AS A RAISED DOUBLE WOOD MEMBER ATTACHED TO A PROPERLY FLASHED WOOD BASE PLATE THAT IS ANCHORED TO THE ROOF DECK. AREA DIVIDERS MUST NEVER RESTRICT THE FLOW OF WATER.

GAF

CURB FLASHING/AREA DIVIDER DETAIL

DRAWING #
606

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

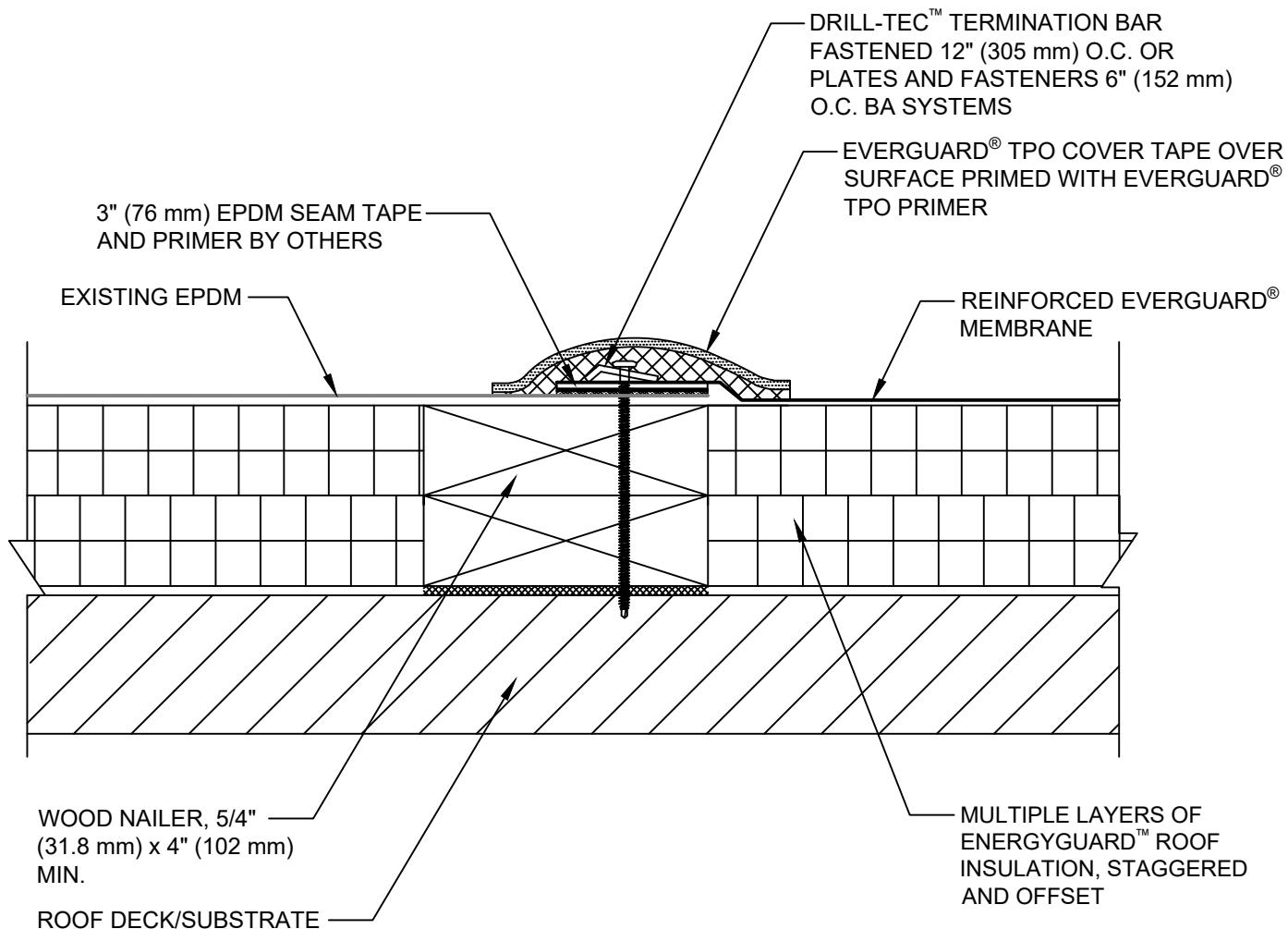
ALL SYSTEMS

8/17/20

N.T.S.

LEGEND

 HEAT-WELDED



NOTE:

1. GAF DOES NOT GUARANTEE THE WATERTIGHT INTEGRITY OF TIE-INS TO OTHER MEMBRANE ROOF SYSTEMS.
2. FOR SELF-ADHERED HEAT-WELDED SYSTEMS, UP TO 15-YR. MAXIMUM GUARANTEE ONLY.
3. WOOD BLOCKING MUST BE SEALED TO THE DECK. IF STEEL DECK, ALL LOWER FLUTES MUST BE SEALED TO PREVENT WATER FROM GOING PAST THIS DETAIL UNDER THE ROOF.

GAF

TPO TO EXISTING EPDM

DRAWING #
609A

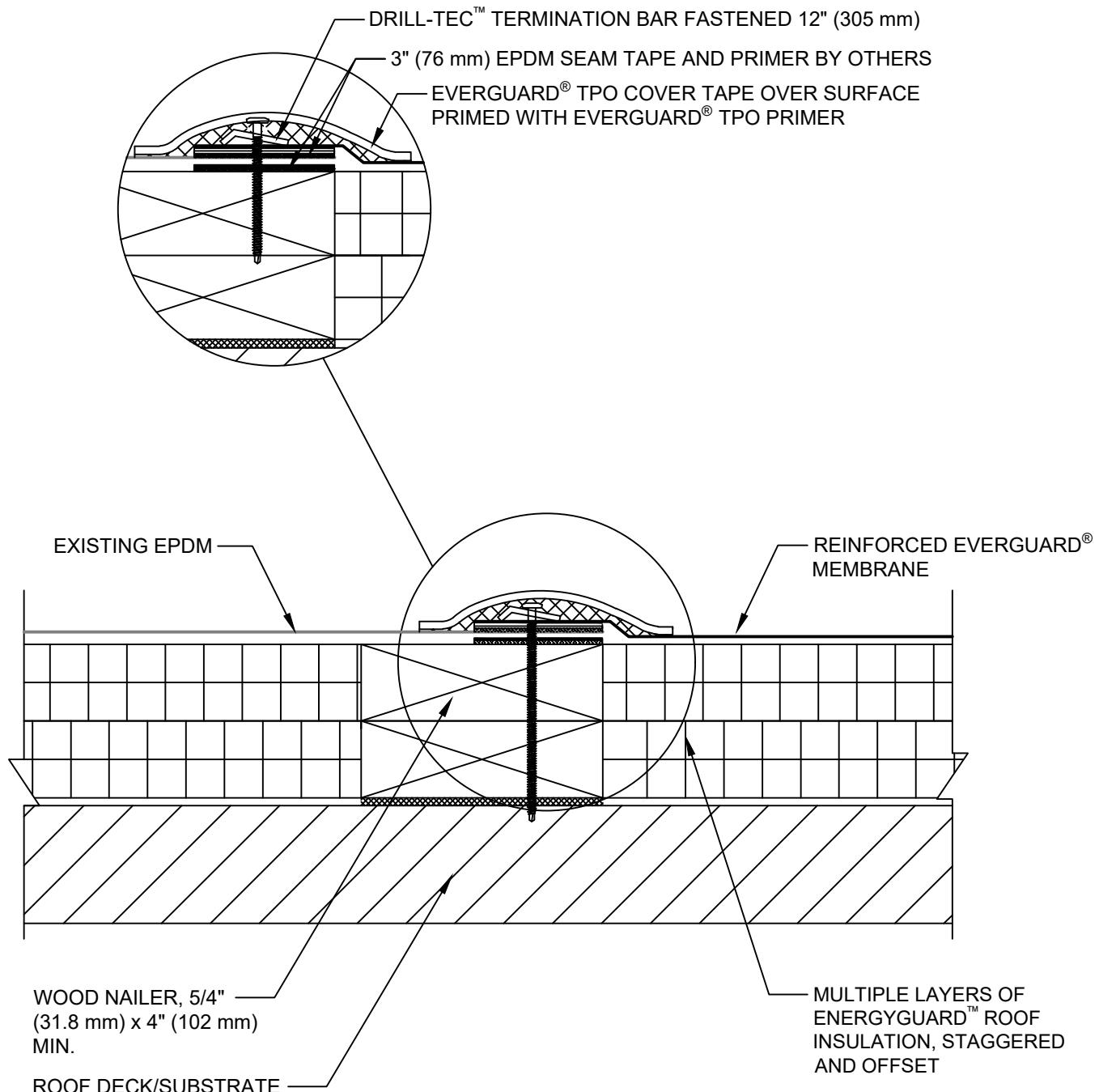
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

 EVERGUARD® WATER BLOCK



NOTE:

1. GAF DOES NOT GUARANTEE THE WATERTIGHT INTEGRITY OF TIE-INS TO OTHER MEMBRANE ROOF SYSTEMS.
2. WOOD BLOCKING MUST BE SEALED TO THE DECK. IF STEEL DECK, ALL LOWER FLUTES MUST BE SEALED TO PREVENT WATER FROM GOING PAST THIS DETAIL UNDER THE ROOF.

GAF

**TPO TO EXISTING EPDM
- ALTERNATE**

DRAWING #
609B

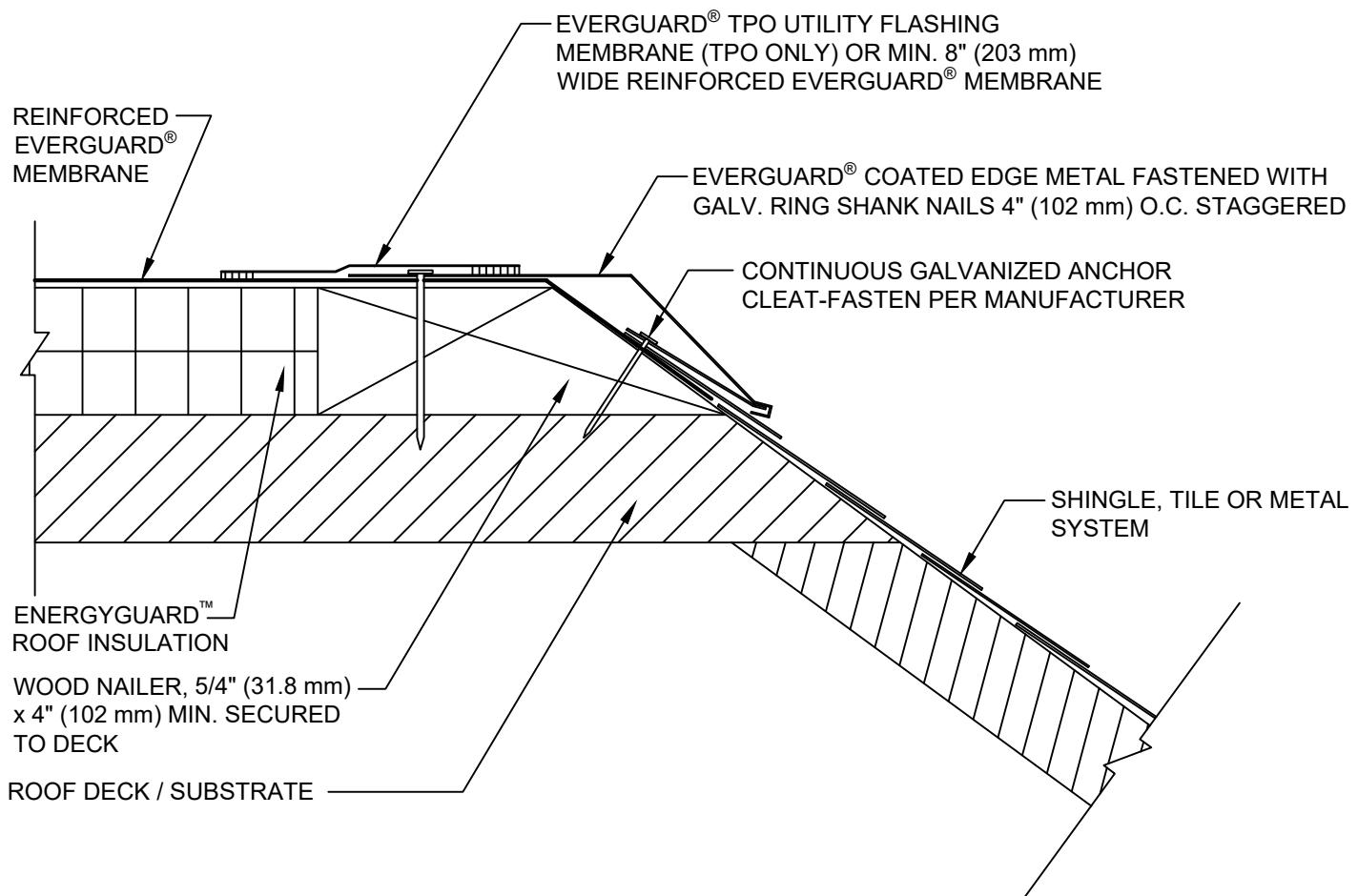
THIS DETAIL APPLIES TO:
ALL SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

 EVERGUARD® WATER BLOCK



NOTE:

1. MINIMUM SLOPE IS 2:12 FOR SHINGLE PORTION OF ROOF.
2. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A COVER BOARD IS REQUIRED ON MECHANICALLY ATTACHED SYSTEMS ONLY.

GAF

LOW-SLOPE TO STEEP-SLOPE TRANSITION DETAIL

DRAWING #
610

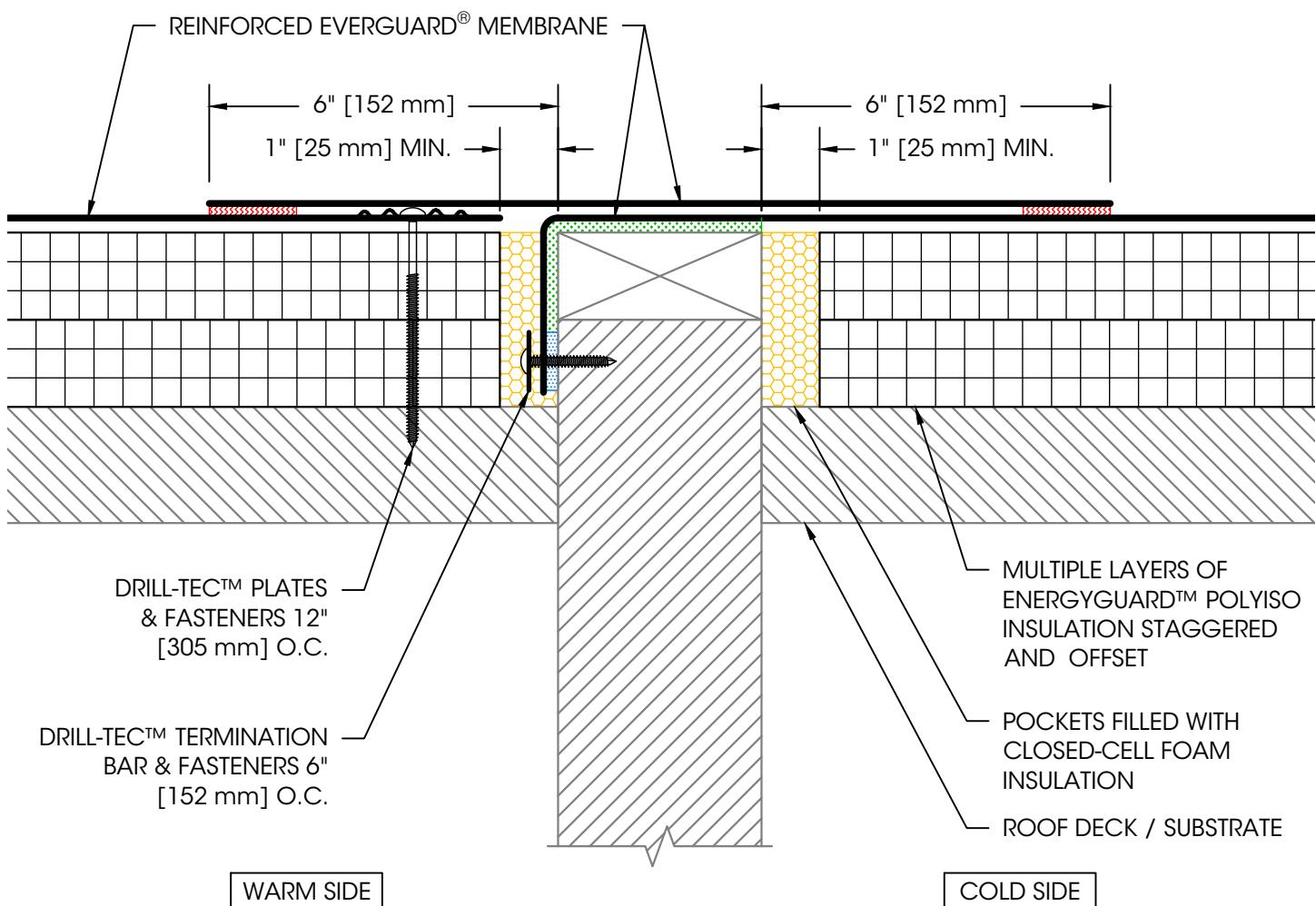
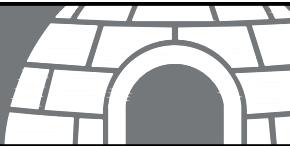
THIS DETAIL APPLIES TO:
ADHERED SYSTEMS
SELF-ADHERED SYSTEMS
MECHANICALLY ATTACHED SYSTEMS

ISSUE / REVISION DATE
8/17/20

SCALE
N.T.S.

LEGEND

HEAT-WELDED



Notes:

1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Transition Tie-In - Wall Above Roof Deck

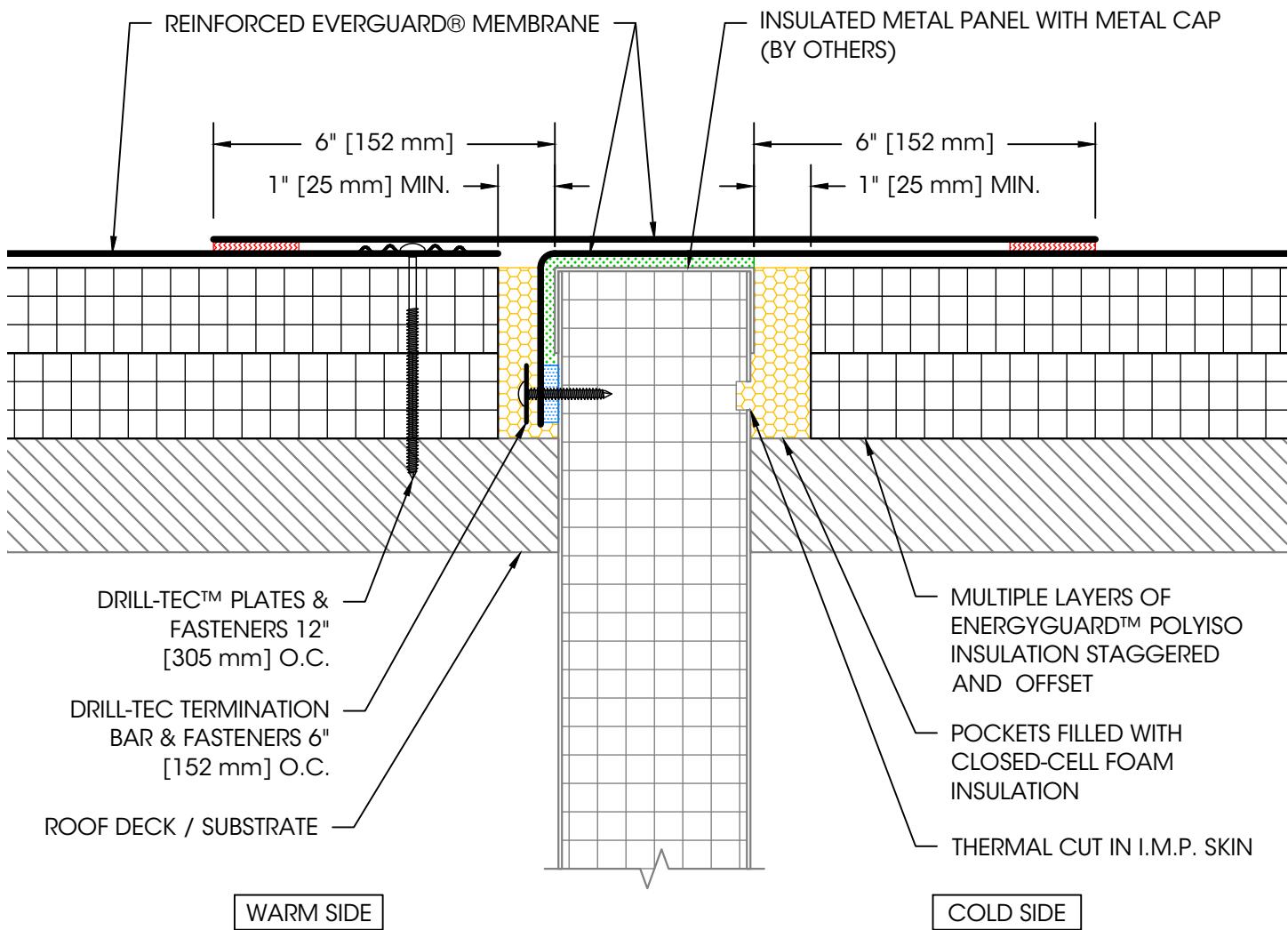
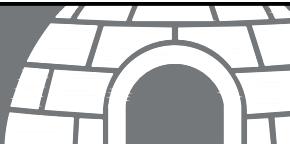
Roof Area:
Field of Roof

Detail No:

Issue Date:
11/13/2023

Scale:
N.T.S.

130A



Notes:

1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

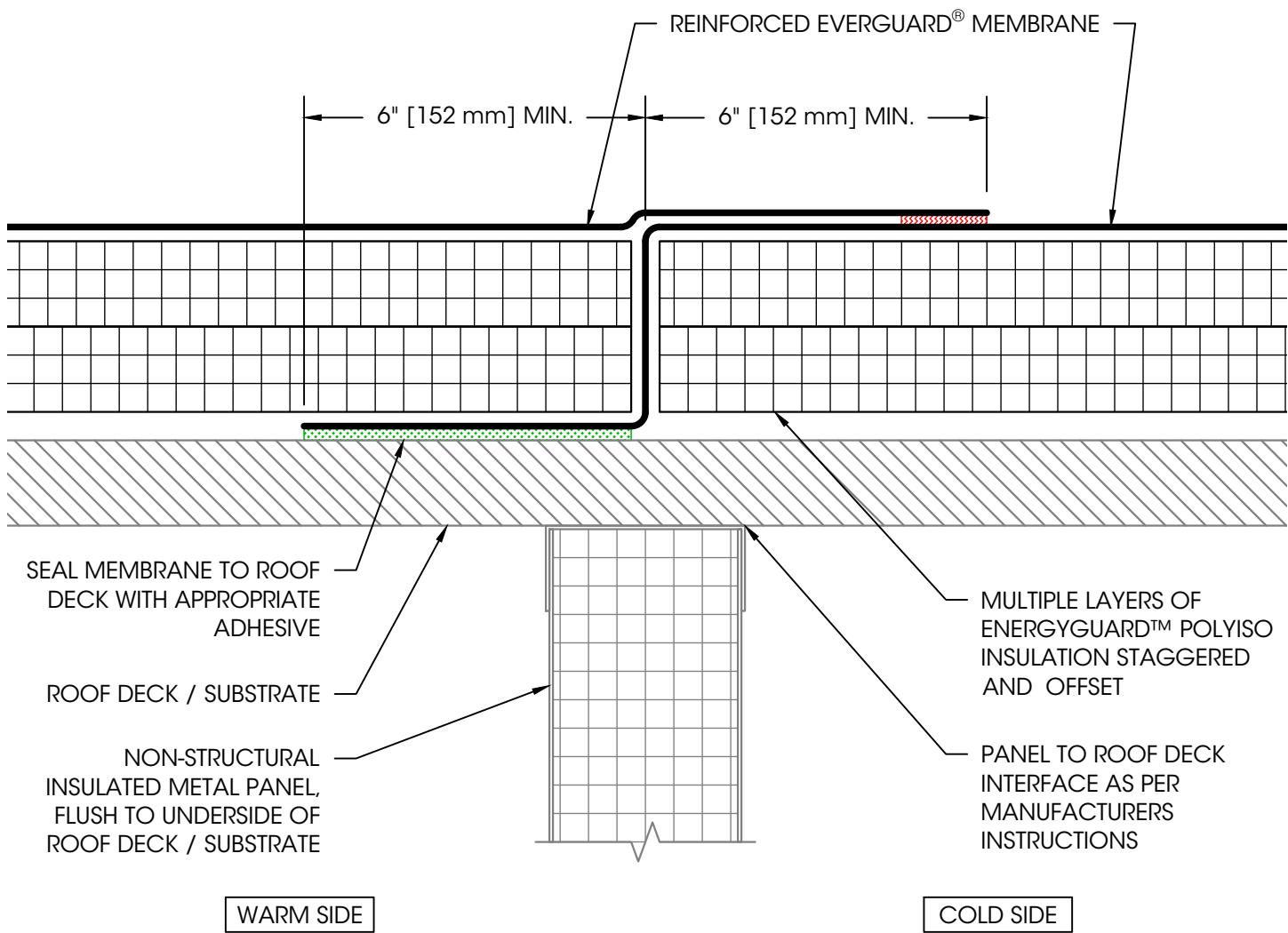
Transition Tie-In at I.M.P.
Above Deck

Roof Area:
Field of Roof

Detail No:

Issue Date: 11/13/2023 Scale: N.T.S.

130B



Notes:

1. For steel roof decks: Fill topside of steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side, both sides of wall.
2. Air seal wall-to-underside of roof deck interface as per architectural drawings.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |

Transition Tie-In at I.M.P Below Deck

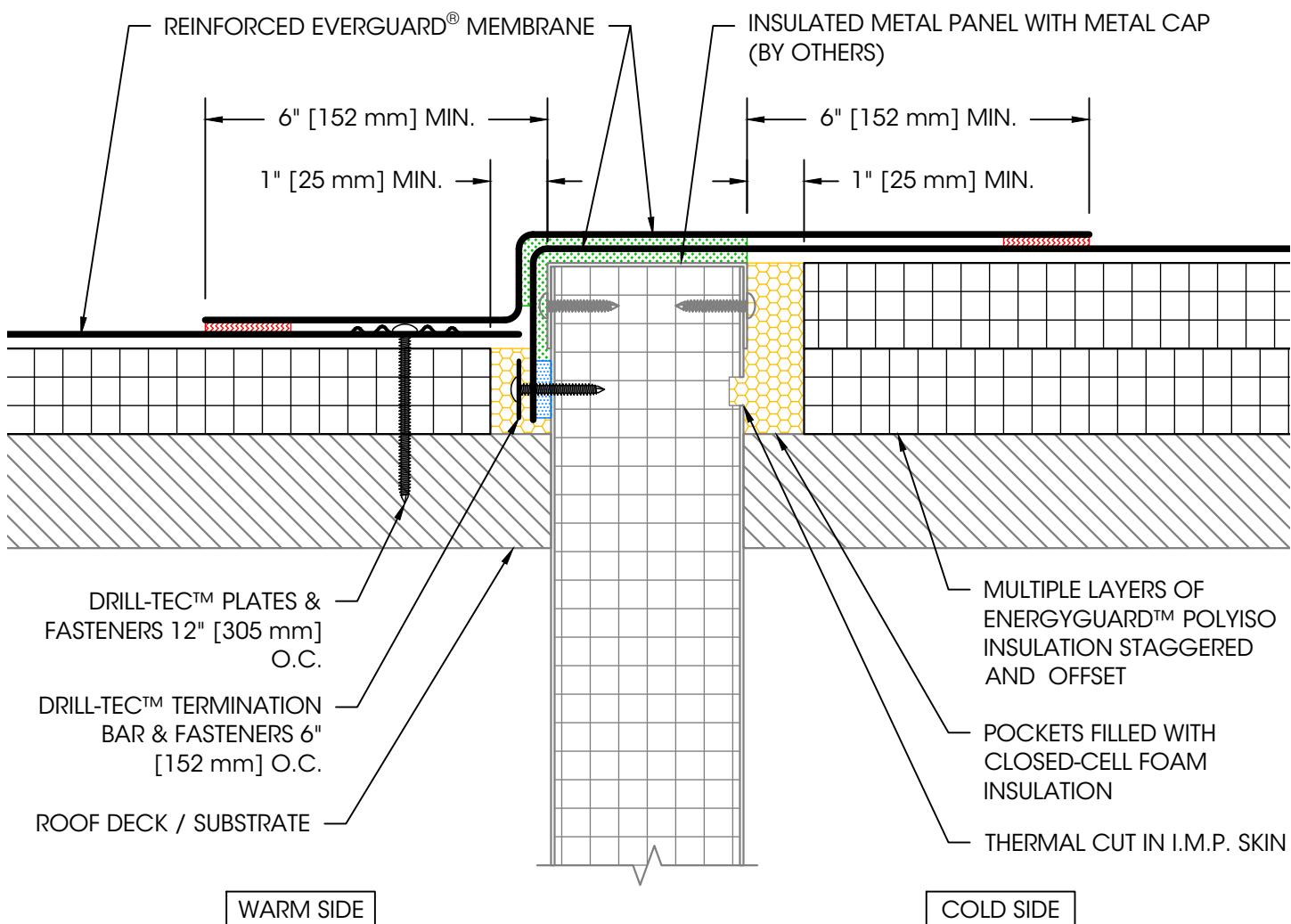
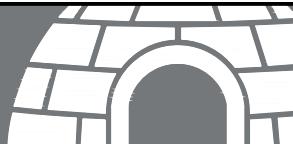
Roof Area:
Field of Roof

Detail No:

Issue Date:
11/13/2023

Scale:
N.T.S.

130C



Notes:

1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Offset Transition Tie-In at I.M.P Above Deck

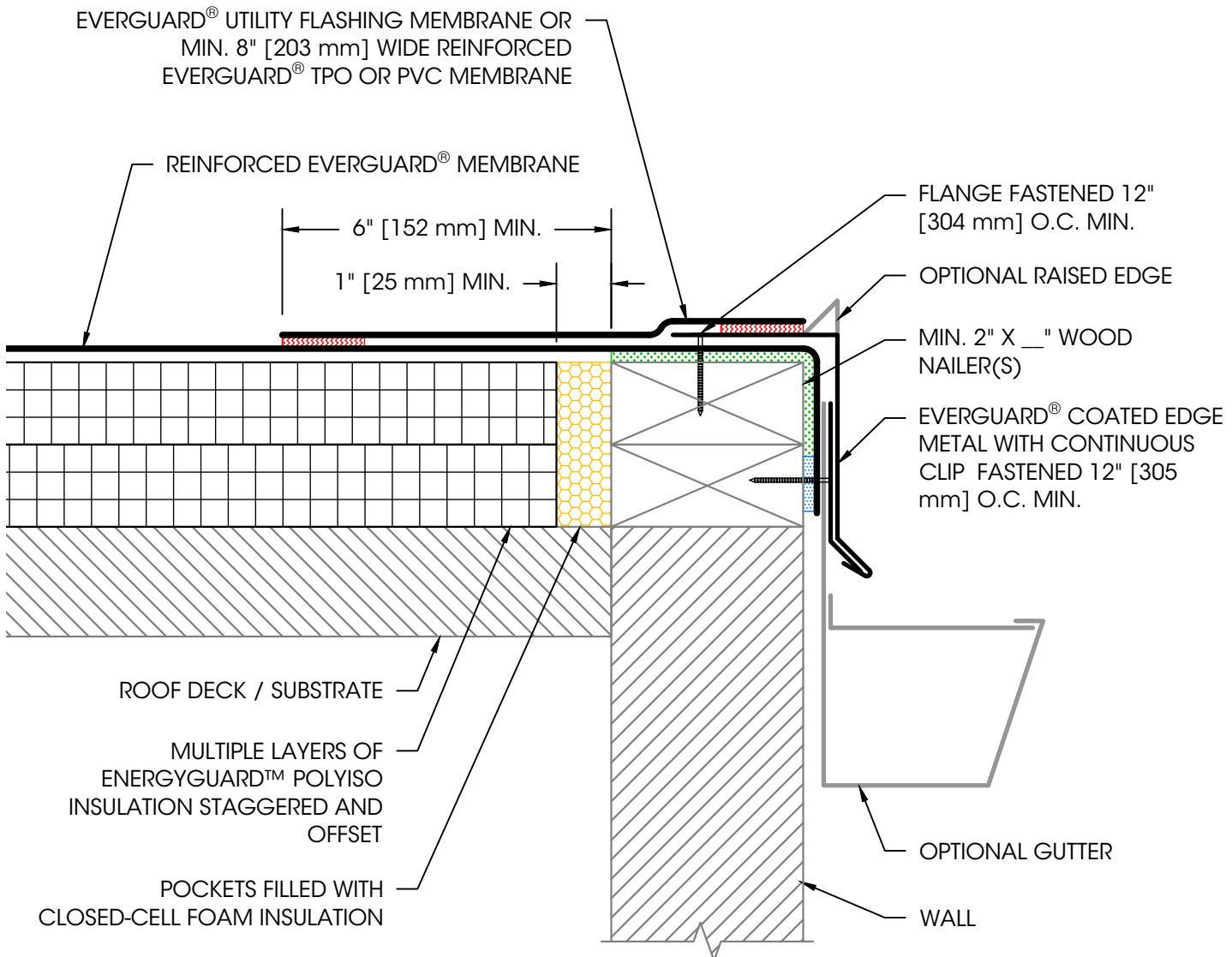
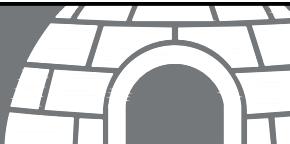
Roof Area:
Field of Roof

Detail No:

Issue Date:
11/13/2023

Scale:
N.T.S.

130D



Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7 and tested for capacity in accordance with the test methods in the applicable edition of ANSI/SPRI ES-1.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Coated Metal Roof Edge

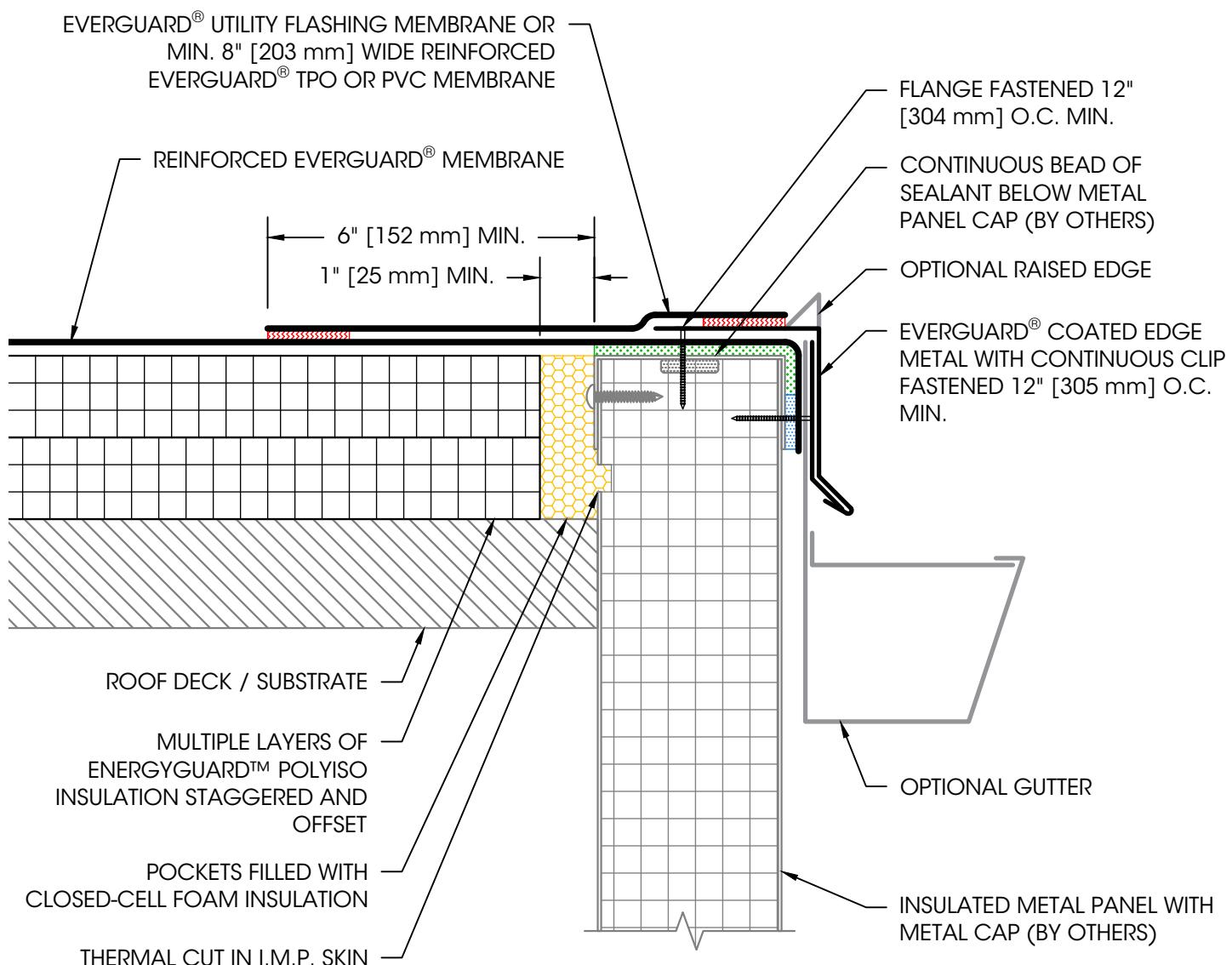
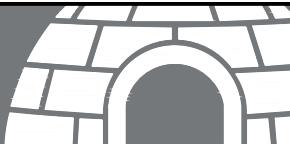
Roof Area:
Roof Edge

Detail No:

201A

Issue Date:
11/13/2023

Scale:
N.T.S.



Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7. Additional requirements apply for guarantee coverage of attachment to insulated metal wall panels. Contact coldstorage.assistance@gaf.com for details.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Coated Metal Roof Edge at I.M.P. Wall

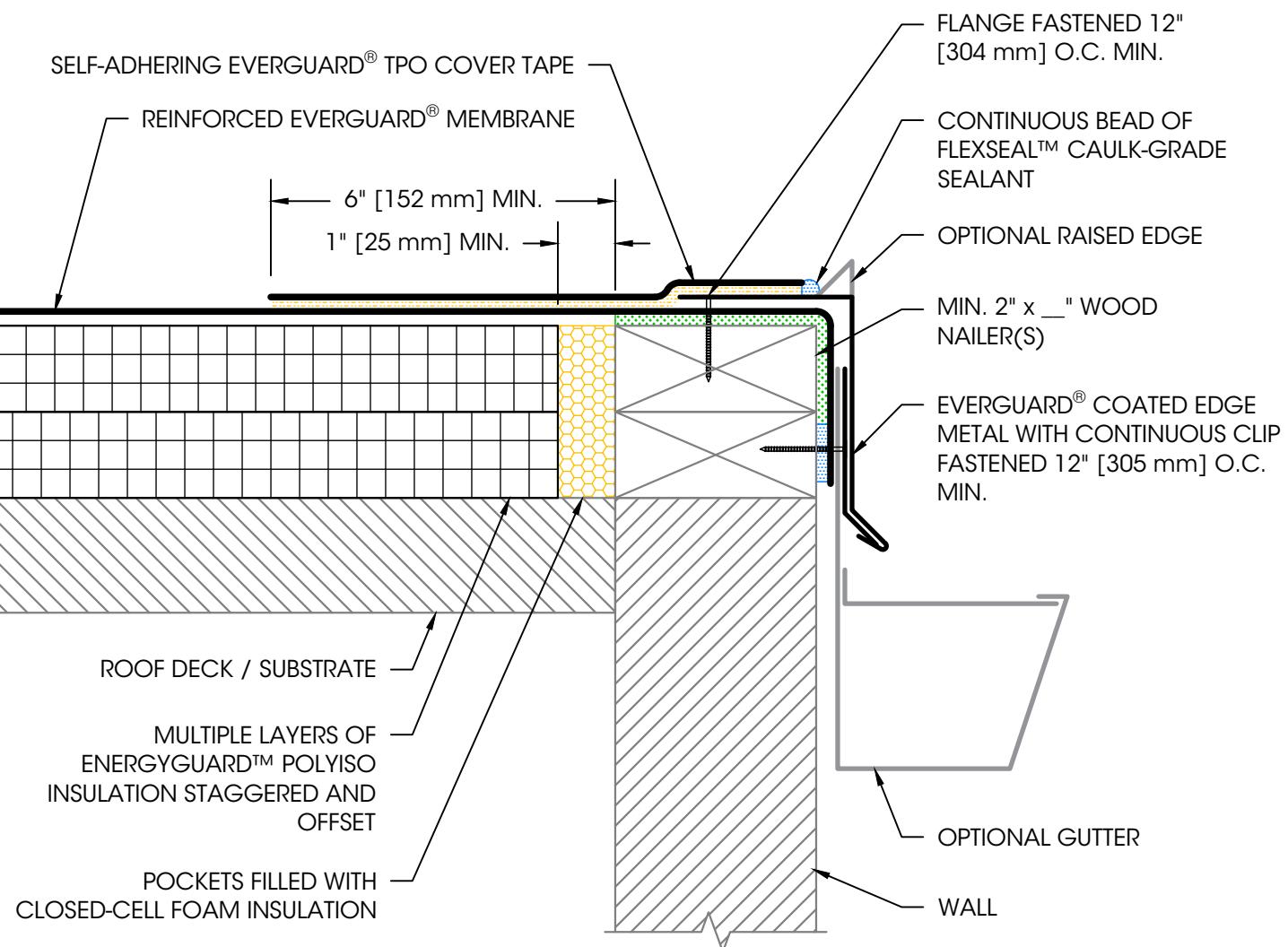
Roof Area:
Roof Edge

Detail No:

201C

Issue Date:
11/13/2023

Scale:
N.T.S.



Notes:

1. Clean metal and membrane with EverGuard® TPO Seam Cleaner and allow to dry. Once dry, prime metal and membrane with EverGuard® TPO Primer before installing EverGuard® TPO Cover Tape.
2. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7 and tested for capacity in accordance with the test methods in the applicable edition of ANSI/SPRI ES-1.
3. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|----------|
| | ADHESIVE |
| | SEALANT |
| | PRIMER |

Metal Roof Edge with Cover Tape

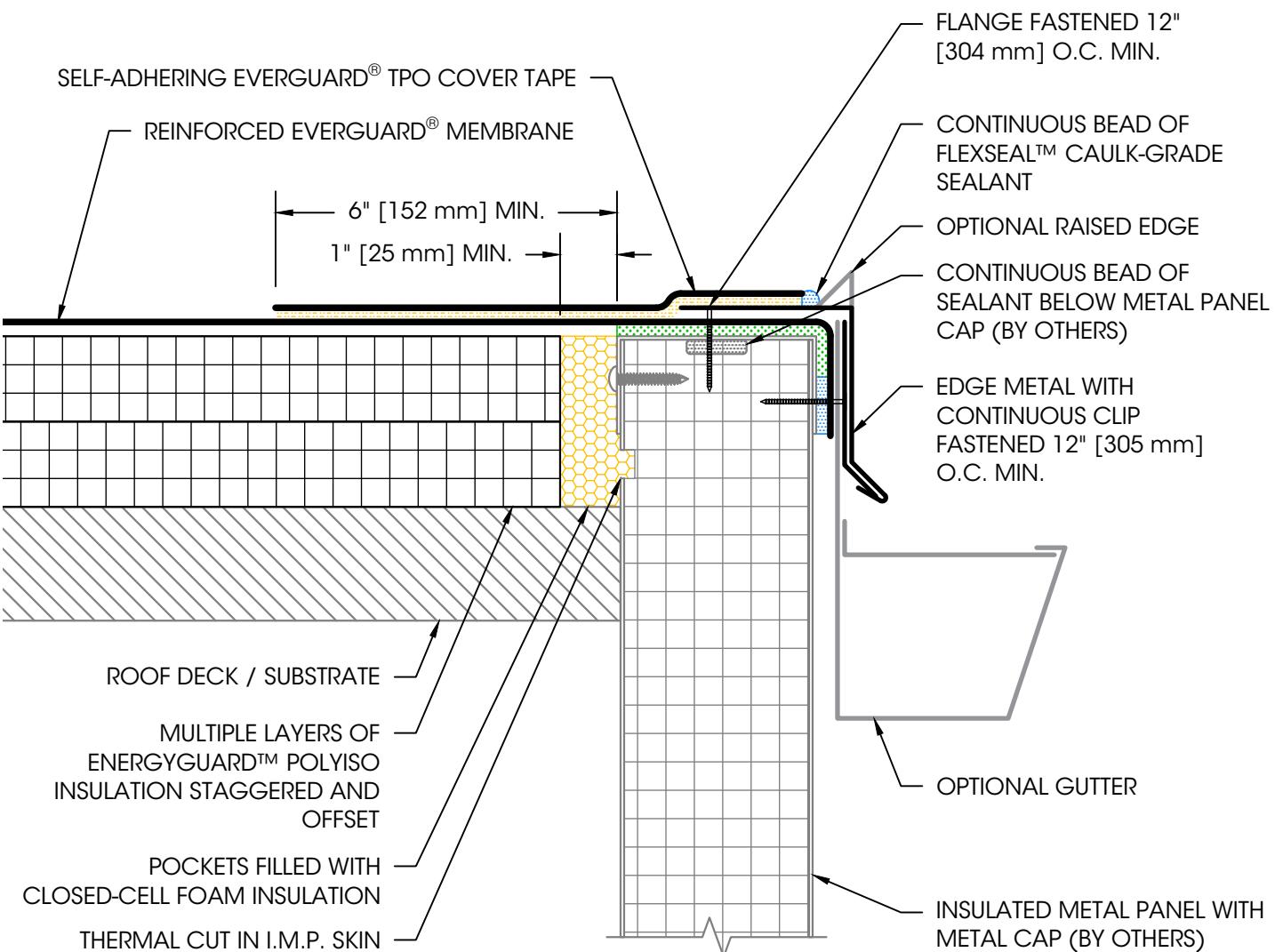
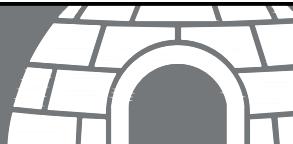
Roof Area:
Roof Edge

Detail No:

202C

Issue Date:
11/13/2023

Scale:
N.T.S.



Notes:

1. Clean metal and membrane with EverGuard® TPO Seam Cleaner and allow to dry. Once dry, prime metal and membrane with EverGuard® TPO Primer before installing EverGuard® TPO Cover Tape.
2. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7. Additional requirements apply for guarantee coverage of attachment to insulated metal wall panels. Contact coldstorage.assistance@gaf.com for details.
3. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall.

| LEGEND | |
|--------|----------|
| | ADHESIVE |
| | SEALANT |
| | PRIMER |

Metal Roof Edge with Cover Tape at I.M.P. Wall

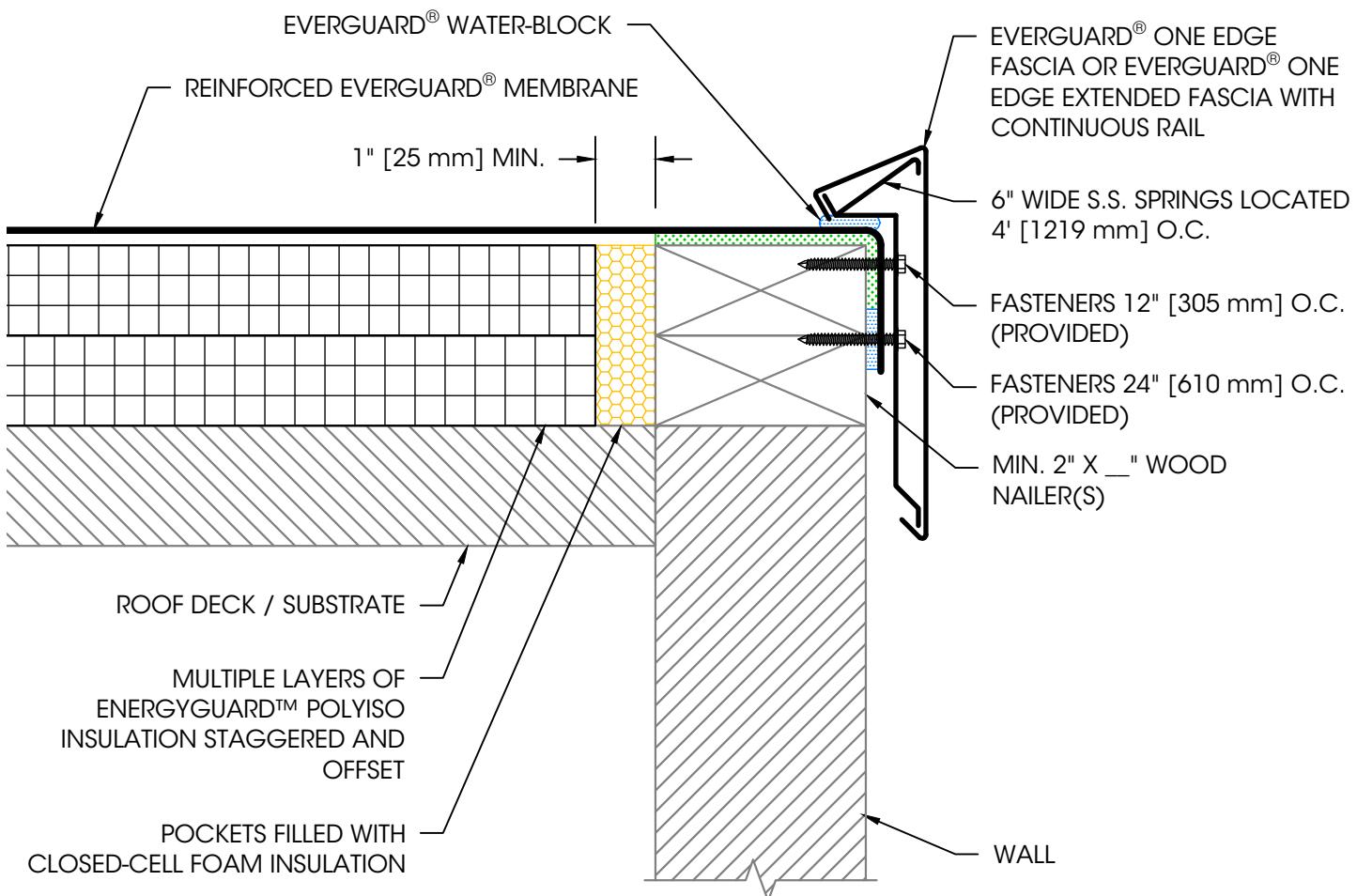
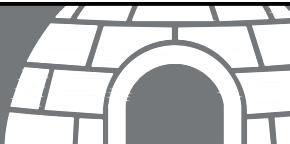
Roof Area:
Roof Edge

Detail No:

203D

Issue Date:
11/13/2023

Scale:
N.T.S.



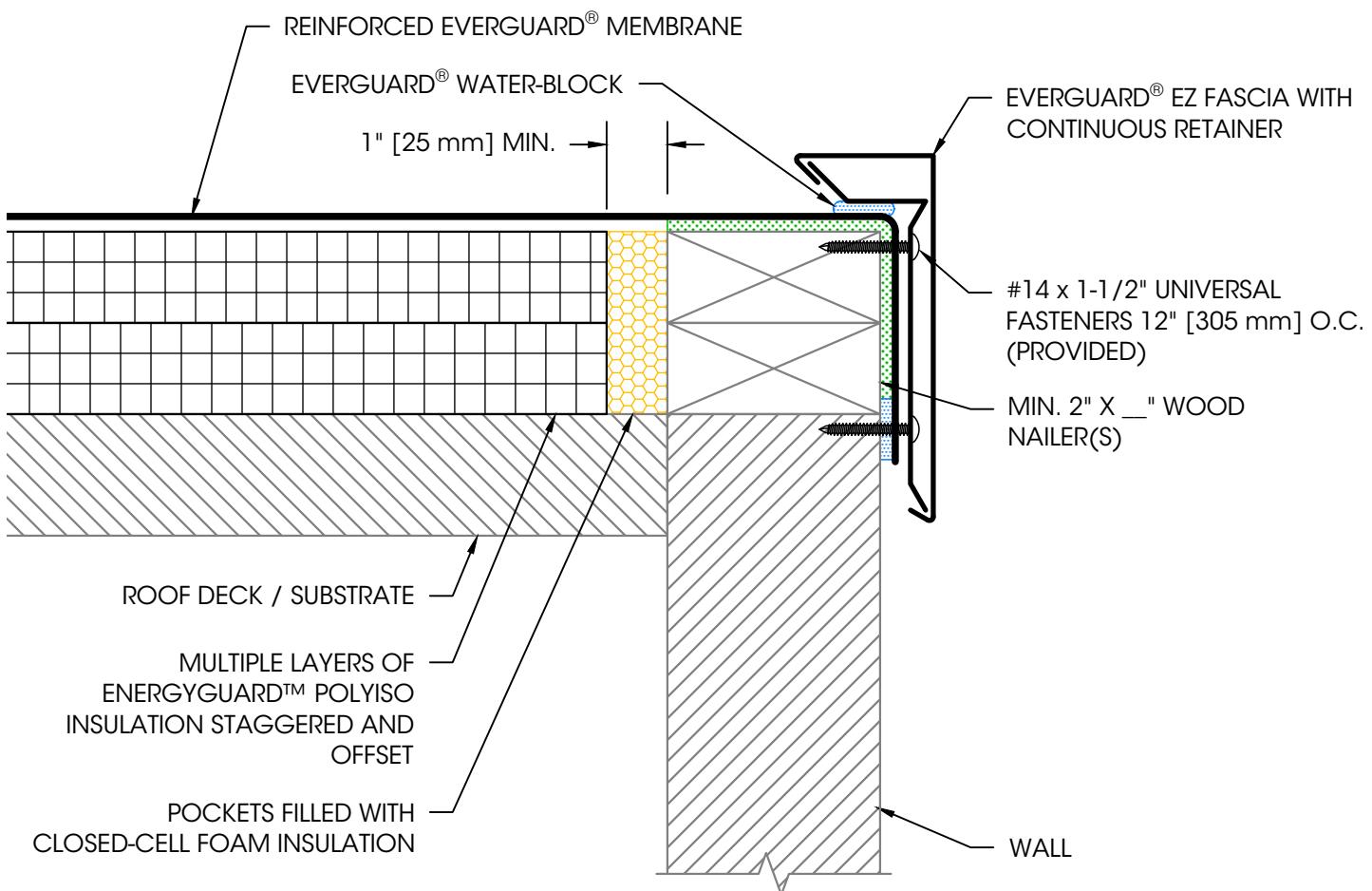
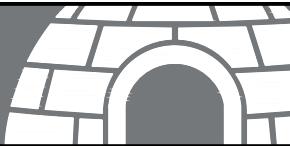
Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7 and tested for capacity in accordance with the test methods in the applicable edition of ANSI/SPRI ES-1.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall.

| LEGEND | |
|--------|----------|
| | ADHESIVE |
| | SEALANT |

EverGuard One Edge Fascia

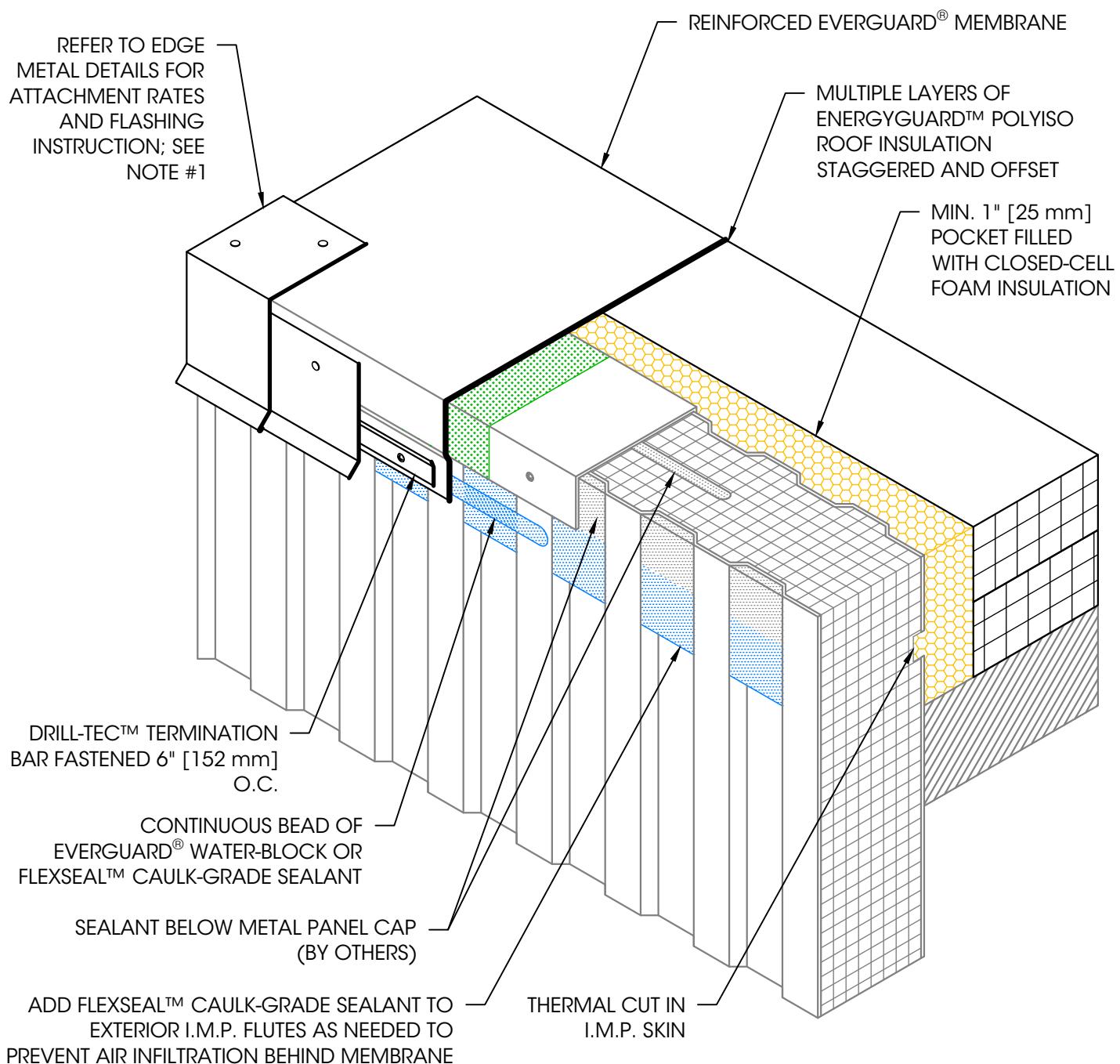
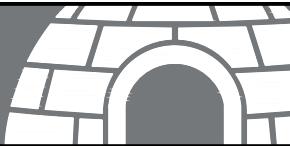
| | |
|---------------------------|-------------------|
| Roof Area:
Roof Edge | Detail No:
205 |
| Issue Date:
11/13/2023 | Scale:
N.T.S. |



Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7 and tested for capacity in accordance with the test methods in the applicable edition of ANSI/SPRI ES-1.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall.

| LEGEND | | EverGuard EZ Fascia | Roof Area:
Roof Edge | Detail No: |
|--------|----------|---------------------|---------------------------|------------------|
| | ADHESIVE | | | |
| | SEALANT | | Issue Date:
11/13/2023 | Scale:
N.T.S. |
| | | | | 232E |



Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7. Additional requirements apply for guarantee coverage of attachment to insulated metal wall panels. Contact coldstorage.assistance@gaf.com for details.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall.

| LEGEND | |
|--------|----------|
| | ADHESIVE |
| | SEALANT |

Preparation of I.M.P. Walls for Edge Termination

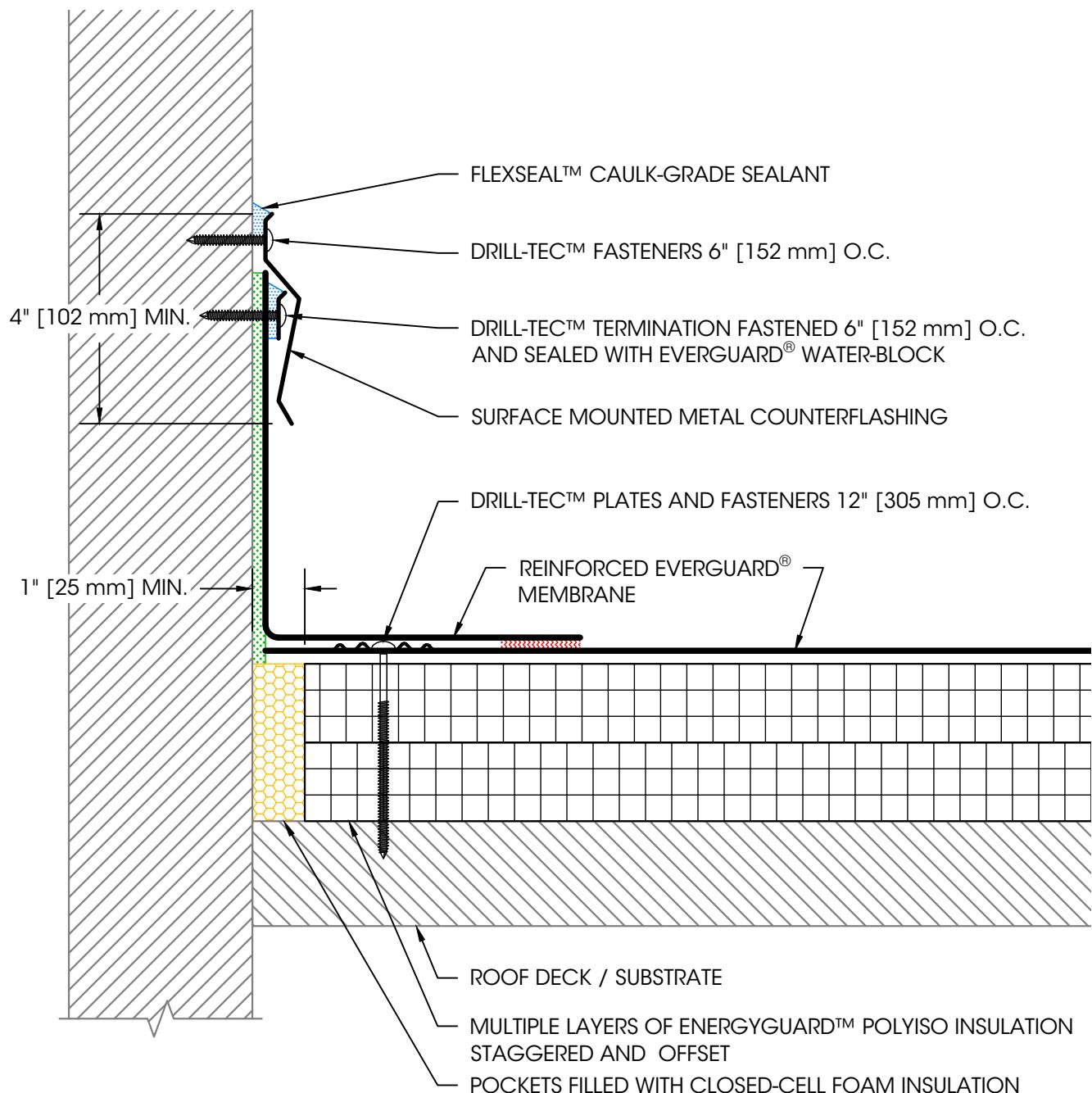
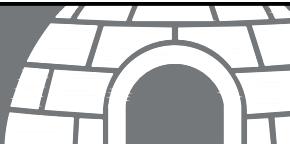
Roof Area:
Field of Roof

Detail No:

237

Issue Date:
11/13/2023

Scale:
N.T.S.

Notes:

1. Exposed walls and curbs must be waterproofed and maintained above the base flashing in order for any surface mounted termination to be effective.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Wall Flashing with Surface Mounted Counterflashing

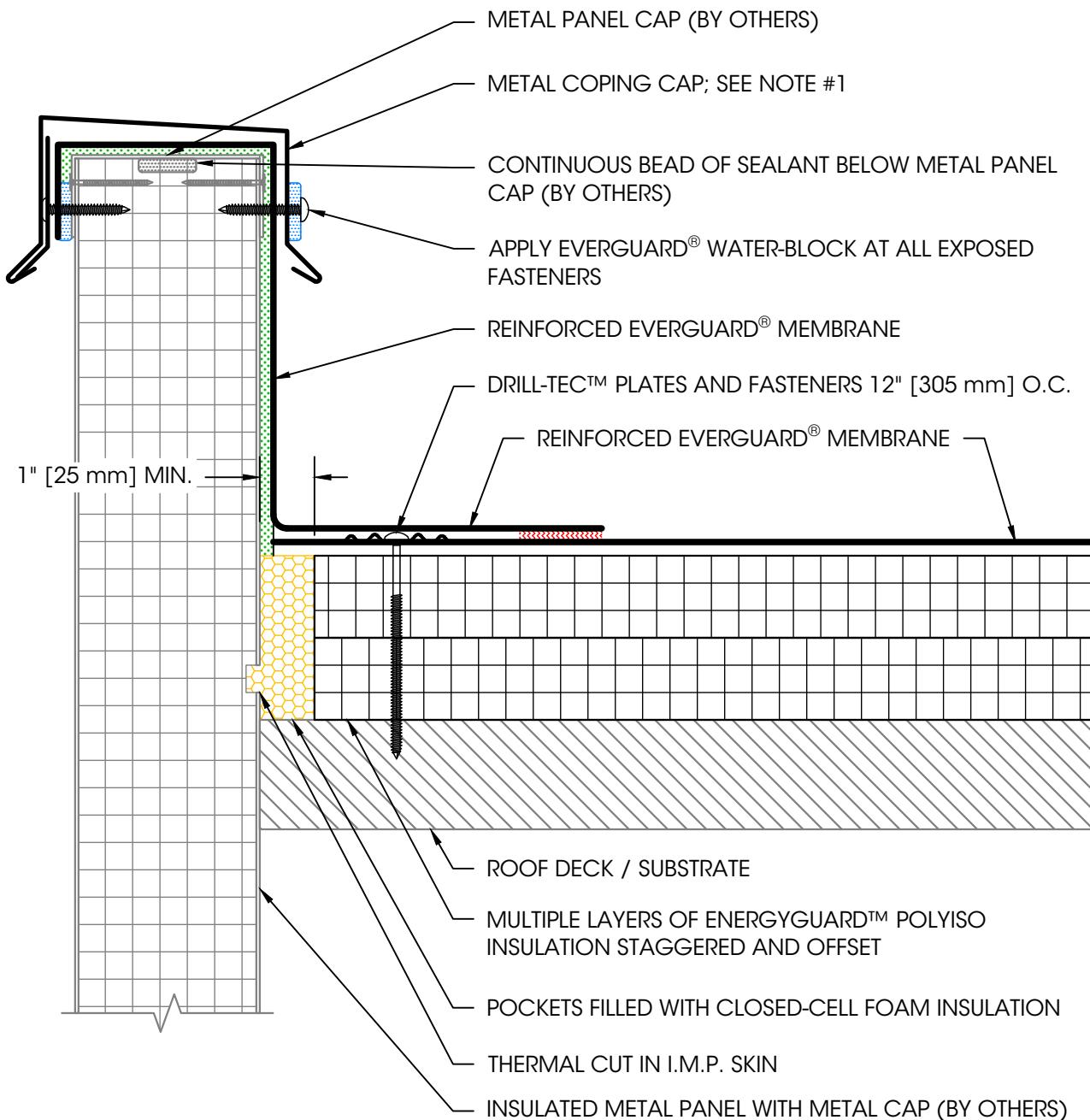
Roof Area:
Walls & Curbs

Detail No:

301B

Issue Date:
11/13/2023

Scale:
N.T.S.



Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7. Additional requirements apply for guarantee coverage of attachment to insulated metal wall panels. Contact coldstorage.assistance@gaf.com for details.
2. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

I.M.P. Parapet Wall with
Coping Cap

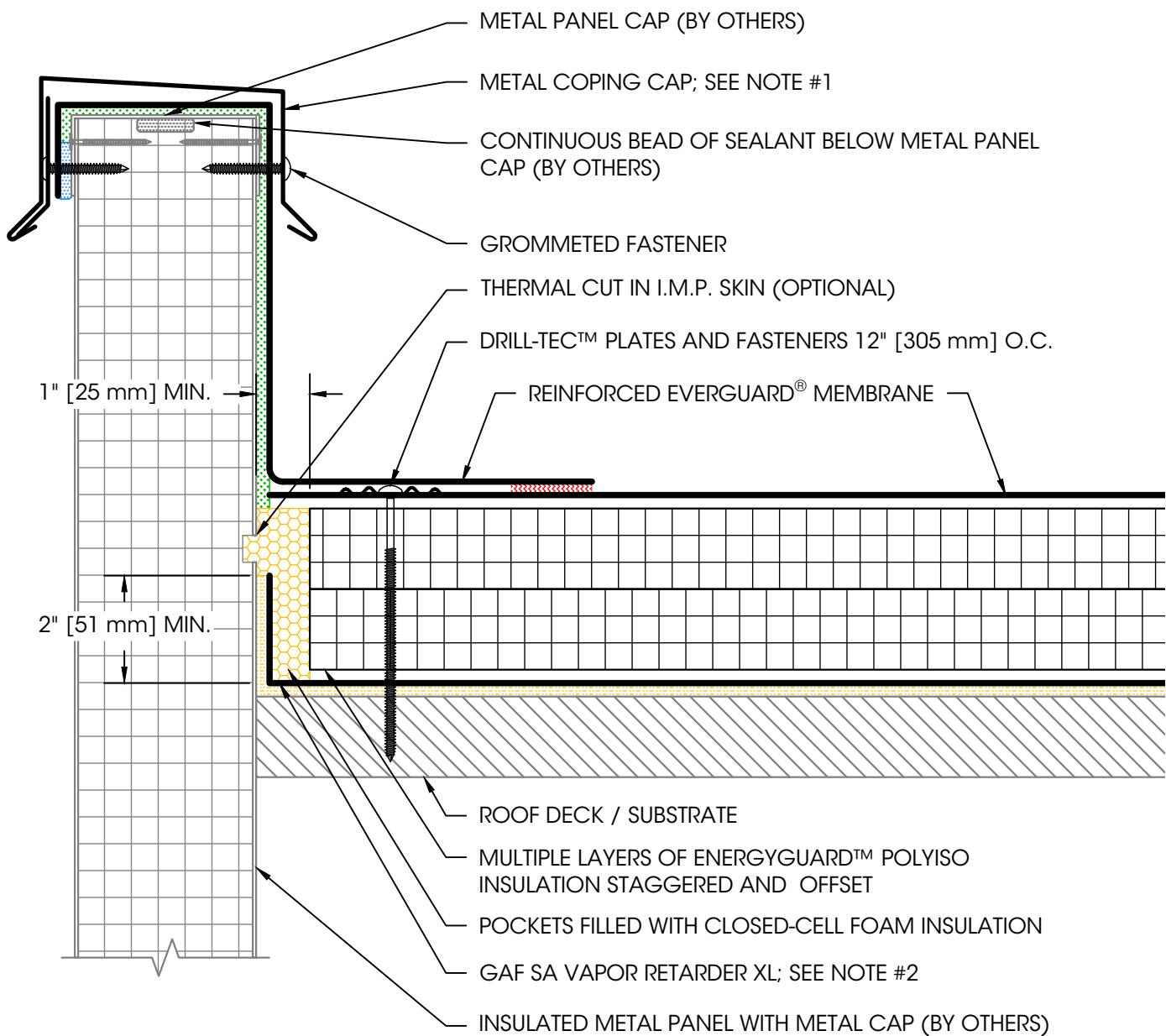
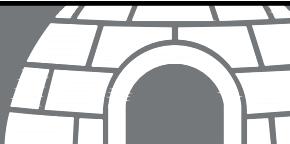
Roof Area:
Walls & Curbs

Detail No:

303B

Issue Date:
11/13/2023

Scale:
N.T.S.



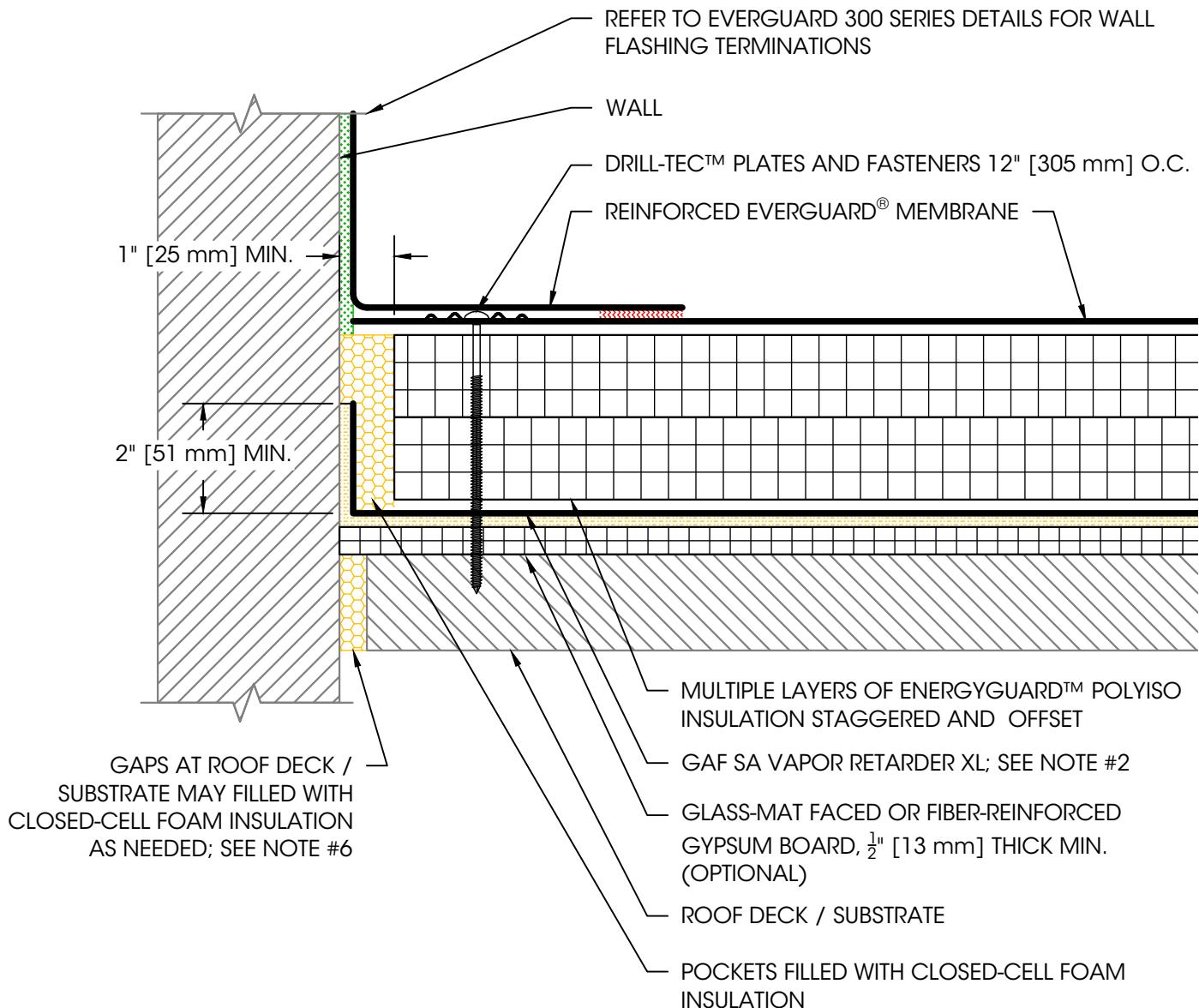
Notes:

1. Edge metal should be designed for wind resistance in accordance with the applicable edition of ASCE 7. Additional requirements apply for guarantee coverage of attachment to insulated metal wall panels. Contact coldstorage.assistance@gaf.com for details.
2. A vapor retarder may be used at the deck level if there are concerns with potential moisture issues due to certain construction processes or other sources during building use.
3. Refer to GAF SA Primer installation instructions for general guidelines.
4. Maintain separation between vapor retarder and membrane / adhesive to avoid potential incompatibility issues.
5. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |
| | PRIMER |

I.M.P. Wall with Coping Cap & SA Vapor Retarder

| | |
|-----------------------------|--------------------|
| Roof Area:
Walls & Curbs | Detail No:
303C |
| Issue Date:
11/13/2023 | Scale:
N.T.S. |



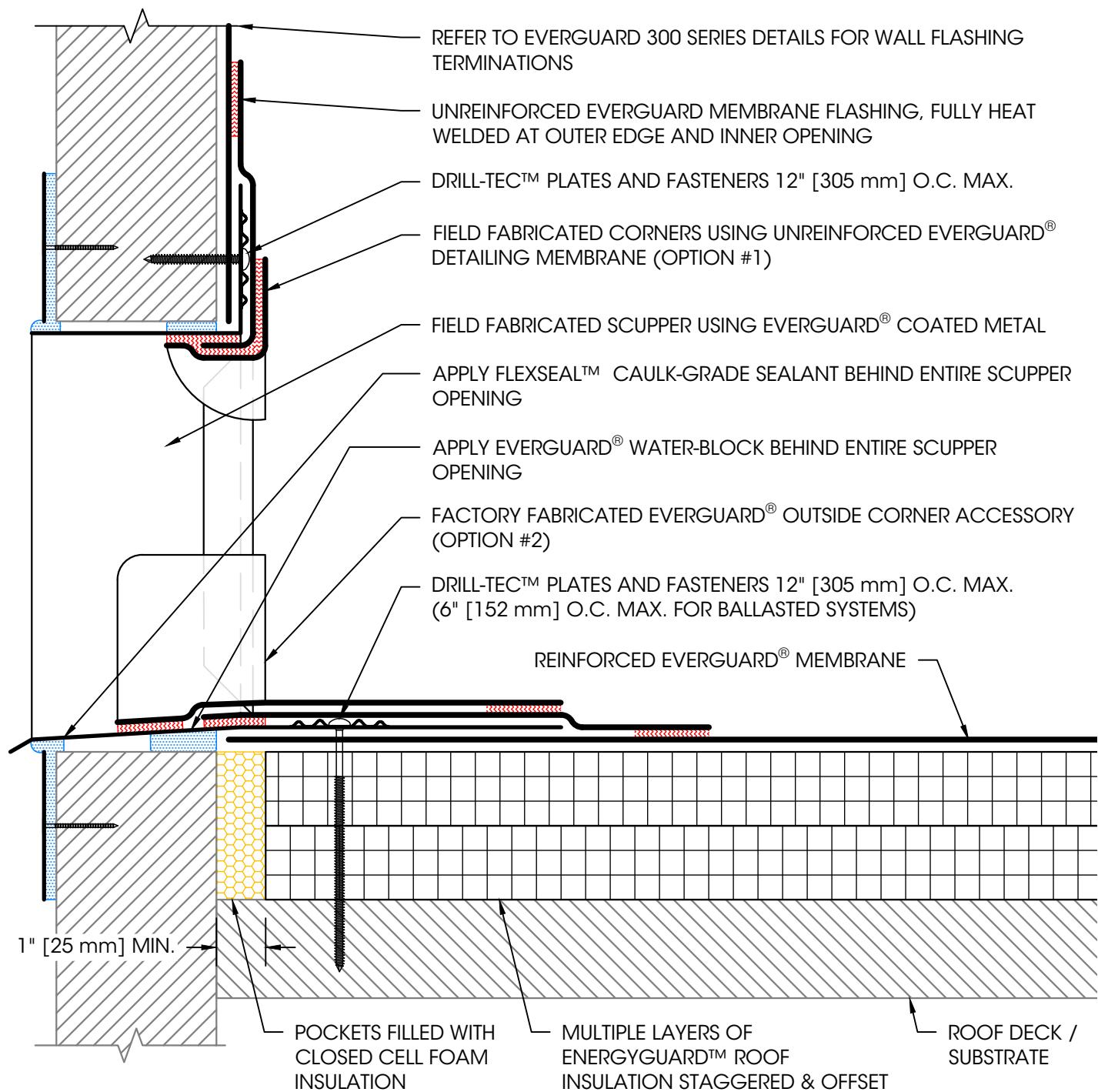
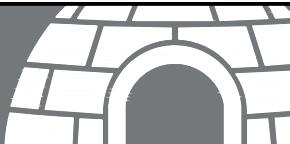
Notes:

1. Use detail in conjunction with the standard flashing and termination details for the approved roof system.
2. A vapor retarder may be used at the deck level if there are concerns with potential moisture issues due to certain construction processes or other sources during building use.
3. Refer to GAF SA Primer installation instructions for general guidelines.
4. Maintain separation between vapor retarder and membrane / adhesive to avoid potential incompatibility issues.
5. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.
6. Wall to roof deck interface must be fully air sealed.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | PRIMER |

SA Vapor Retarder
Termination at Wall

| | |
|-----------------------------|-------------------|
| Roof Area:
Walls & Curbs | Detail No:
309 |
| Issue Date:
11/13/2023 | Scale:
N.T.S. |



Notes:

1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.
2. All (4) roof-side corners of scupper must be completely sealed using EverGuard® Unreinforced Detailing Membrane or EverGuard® Preformed Corner accessories.
3. Scupper must be sealed off on exterior face of building.

LEGEND



Field Fabricated Coated Metal Scupper

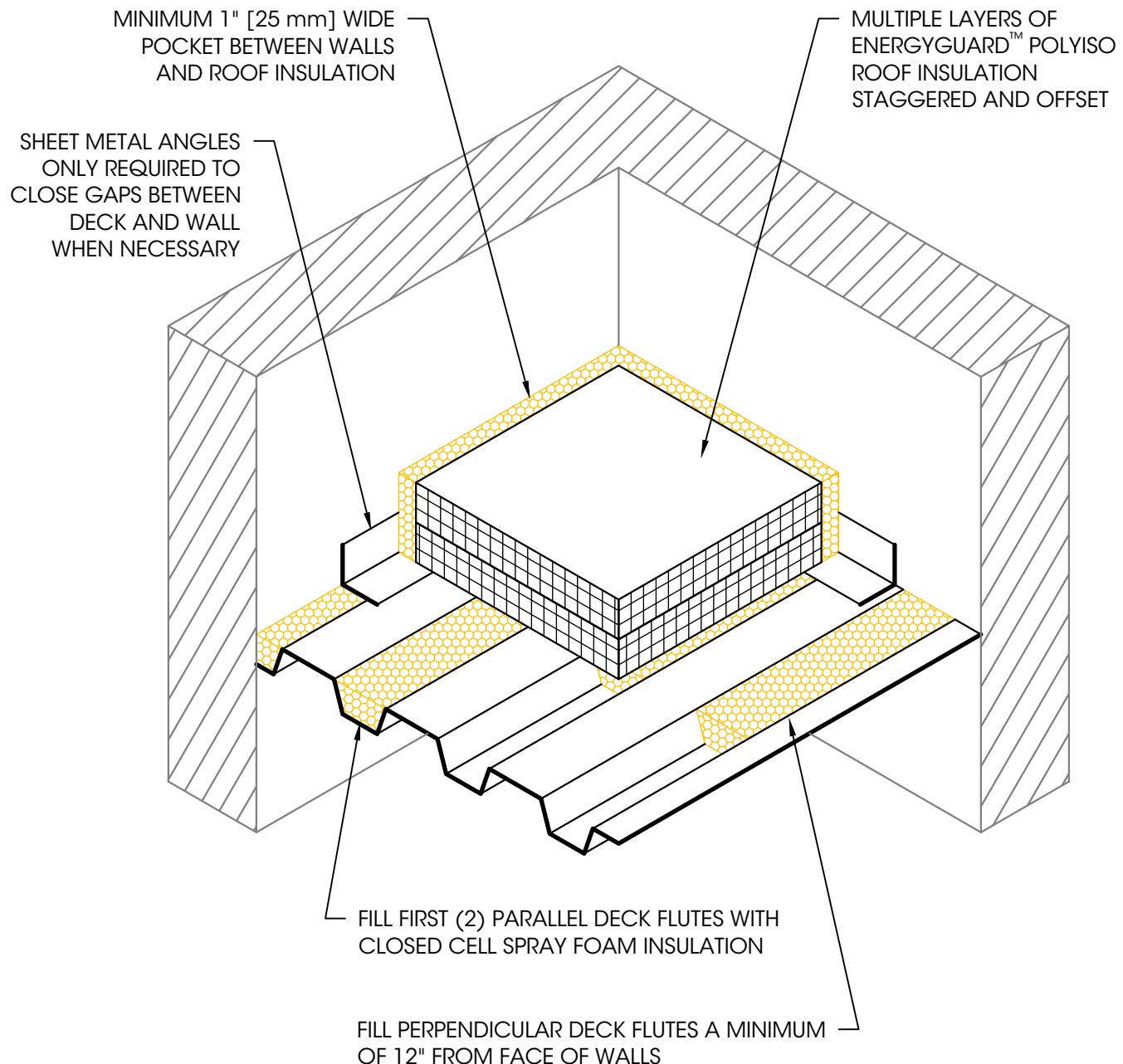
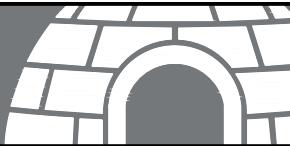
Roof Area:
Walls & Curbs

Detail No:

311A

Issue Date:
11/13/2023

Scale:
N.T.S.



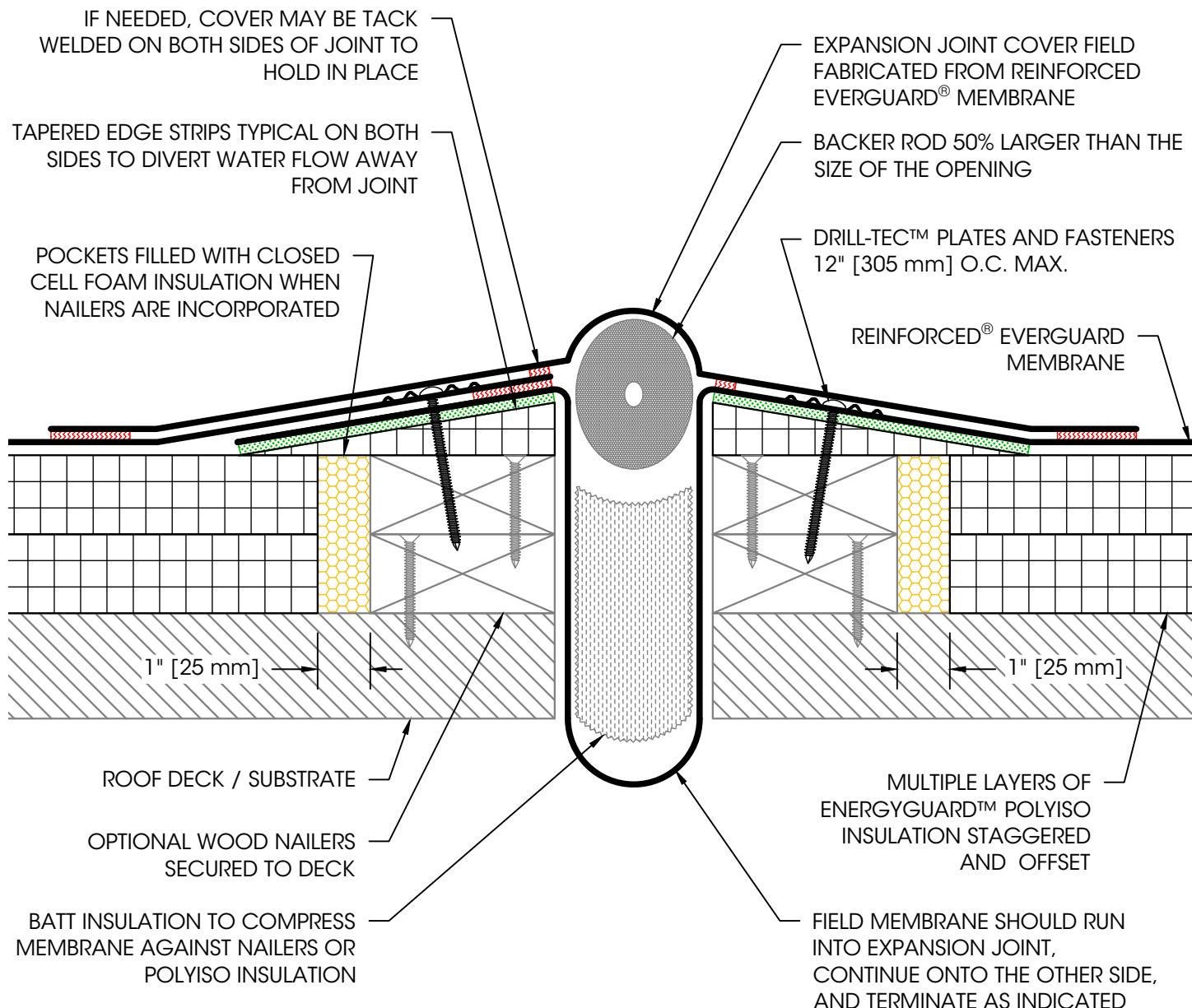
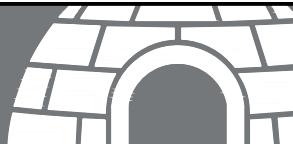
Air Seal at Interface of
Steel Deck and Wall

Roof Area:
Walls & Curbs

Detail No:

350

| | |
|---------------------------|-----------------------|
| Issue Date:
11/13/2023 | Scale:
1' = 1-1/2" |
|---------------------------|-----------------------|



Notes:

1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from face of wall on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |

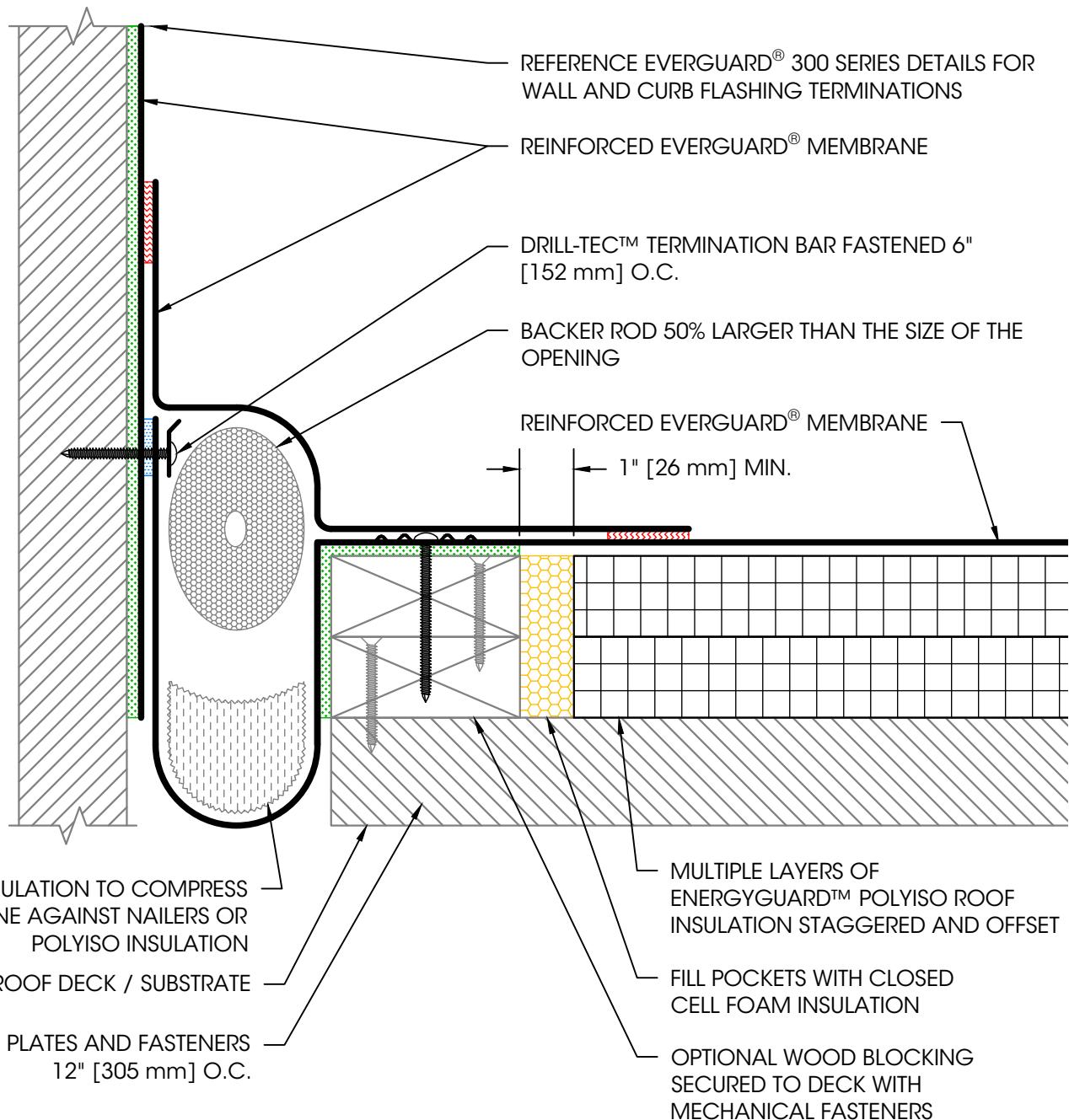
Field Fabricated Expansion Joint - Flat Type

Roof Area:
Expansion Joints

Issue Date:
11/13/2023

Detail No:

401D



Notes:

1. For steel roof decks: Fill topside of steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from either edge of expansion joint
2. Expansion joints should be fabricated using smooth backed membrane only.

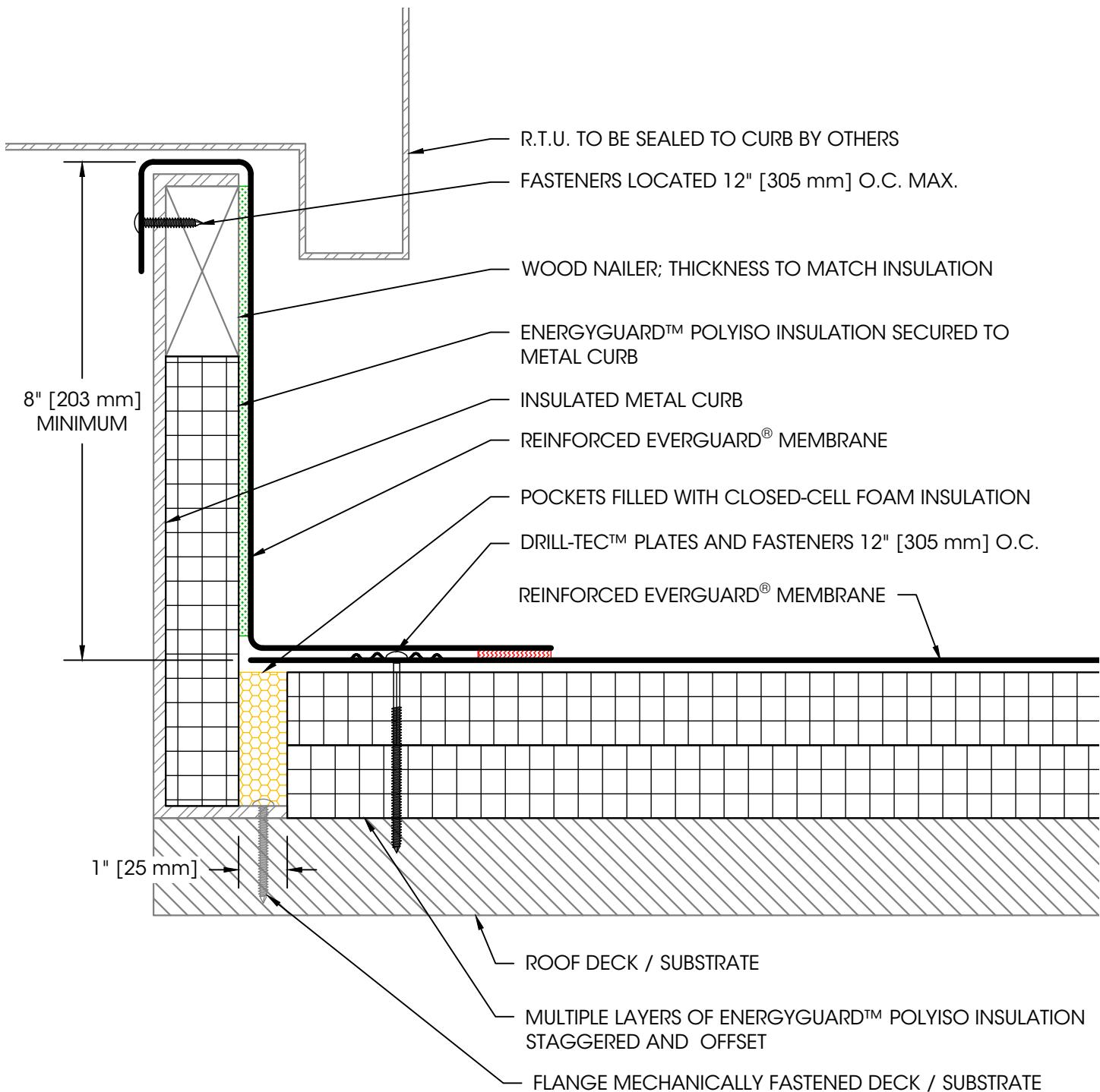
| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Field Fabricated Wall to Deck Expansion Joint

Roof Area:
Expansion Joints

Issue Date: 11/13/2023 Scale: N.T.S.

Detail No:
403D



Notes:

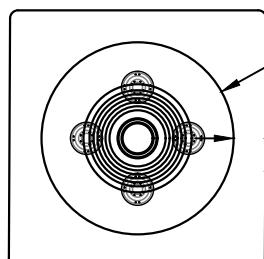
1. For steel roof decks: Fill steel deck flutes with closed cell spray foam insulation prior to the installation of above deck insulation a minimum of 12" [305 mm] from opening on each side.

| LEGEND | |
|--------|-----------|
| | HEAT WELD |
| | ADHESIVE |

R.T.U Curb Flashing

| Roof Area:
Penetrations | Detail No: |
|----------------------------|------------------|
| Issue Date:
11/13/2023 | Scale:
N.T.S. |

503C



PLAN VIEW
(SEE NOTE #2)

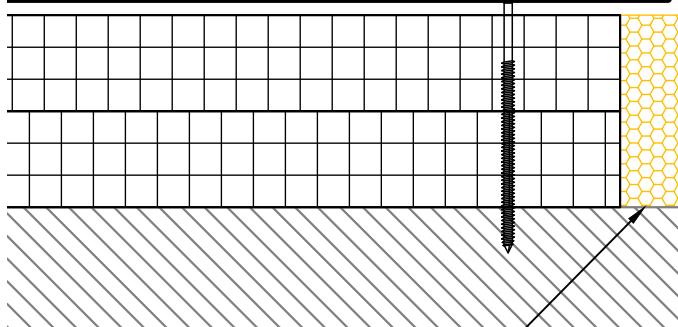
EVERGUARD® PREMOLDED VENT BOOT

2" [51 mm] MIN.

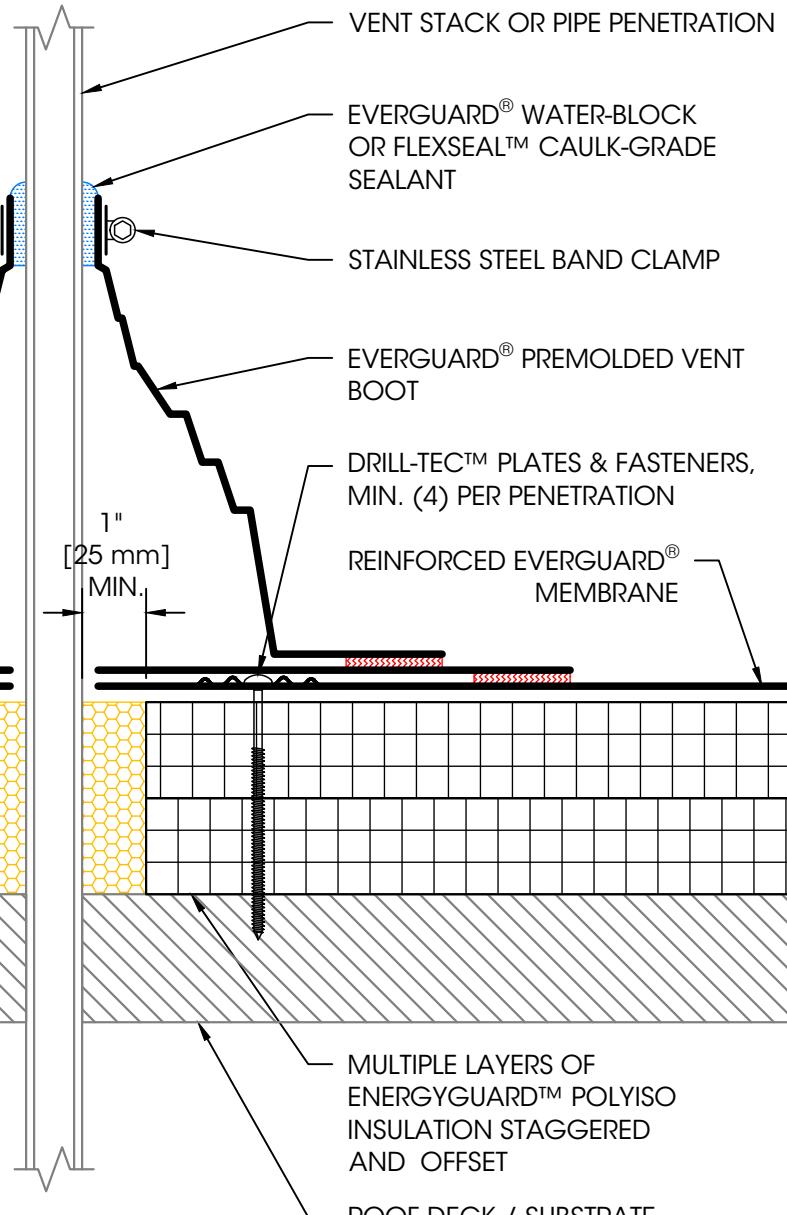
REINFORCED EVERGUARD® MEMBRANE TARGET PATCH

SHOWN WITH TARGET PATCH
MADE FROM REINFORCED
EVERGUARD® MEMBRANE;
SEE NOTE #2

2"
[51 mm]
MIN.



POCKETS FILLED WITH
CLOSED-CELL FOAM INSULATION



Notes:

1. Do not cut through the side of the EverGuard® Premolded Pipe Boot to wrap around the pipe, it must be pulled over the top.
2. A target patch is required when the plates and fasteners extend into the flange area of the boot, or if the insulation thickness exceeds 12" [305 mm].
3. This detail is for use at locations with ambient interior temperatures only.

LEGEND



HEAT WELD



ADHESIVE



SEALANT

**Premolded Pipe Boot
Installation**

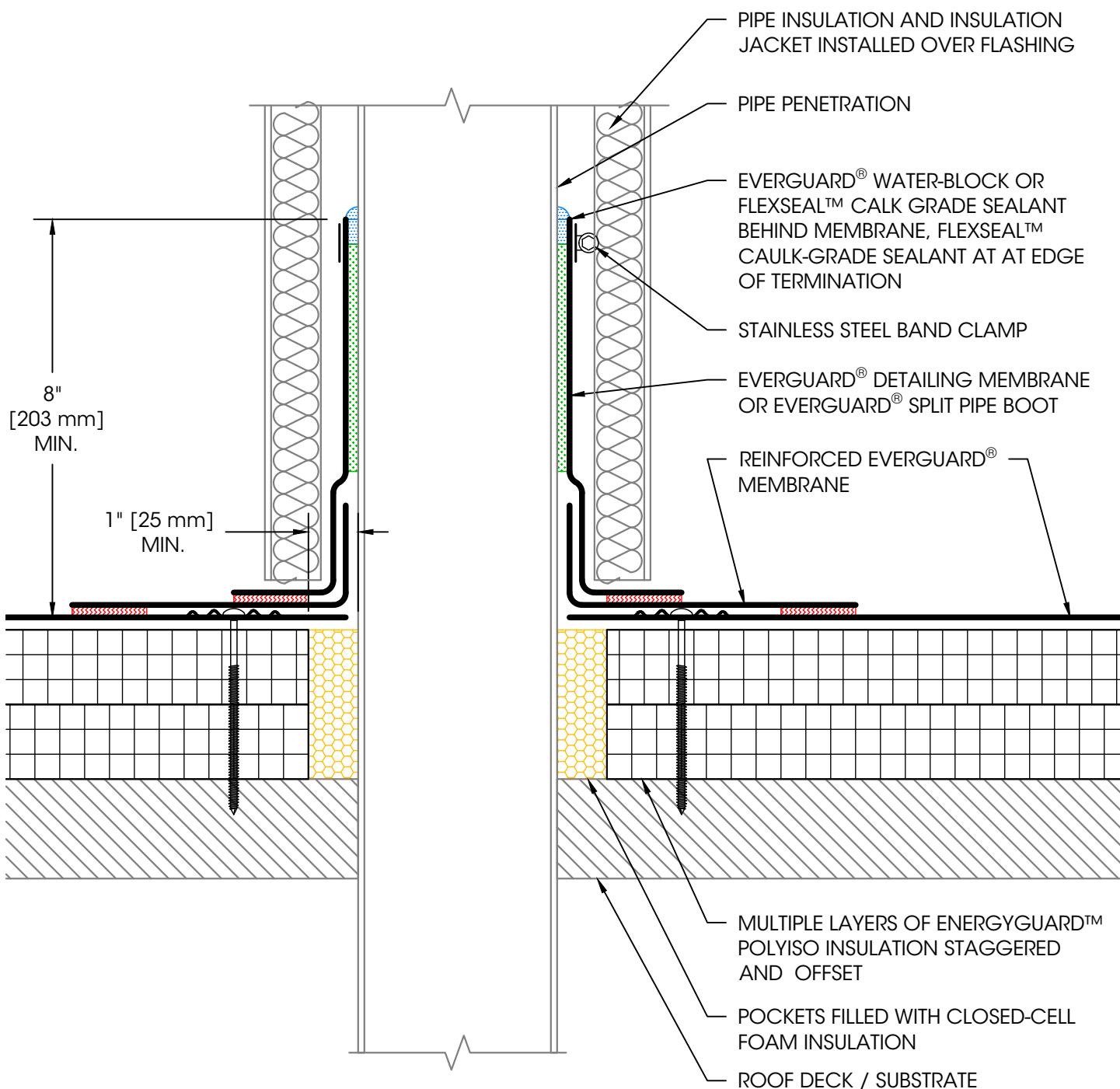
Roof Area:
Penetrations

Detail No:

506B

Issue Date:
11/13/2023

Scale:
N.T.S.



LEGEND

| | |
|--|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Pipe Penetration with Insulation Over Flashing

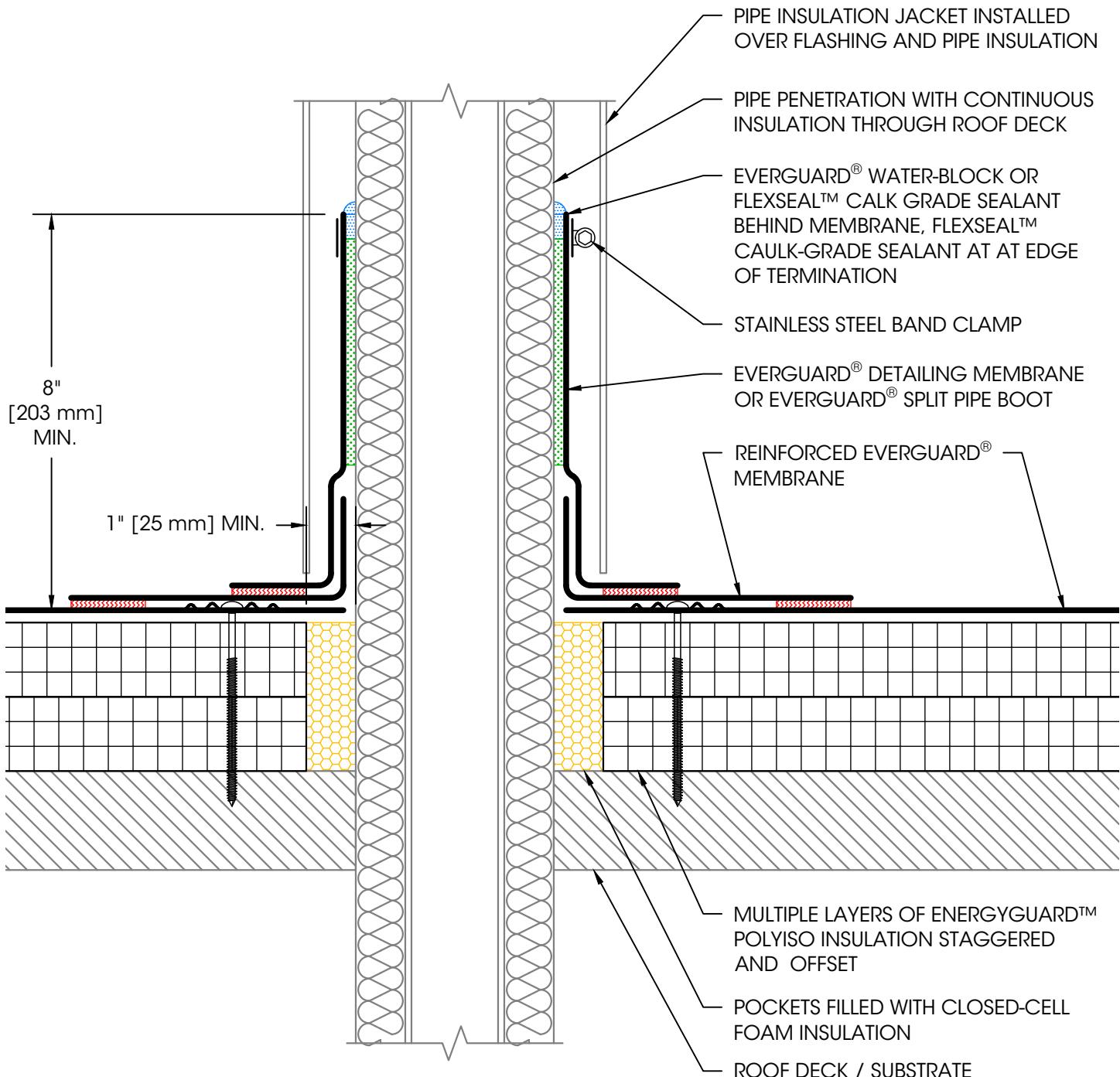
Roof Area:
Penetrations

Detail No:

Issue Date:
7/28/2024

Scale:
N.T.S.

506C



LEGEND

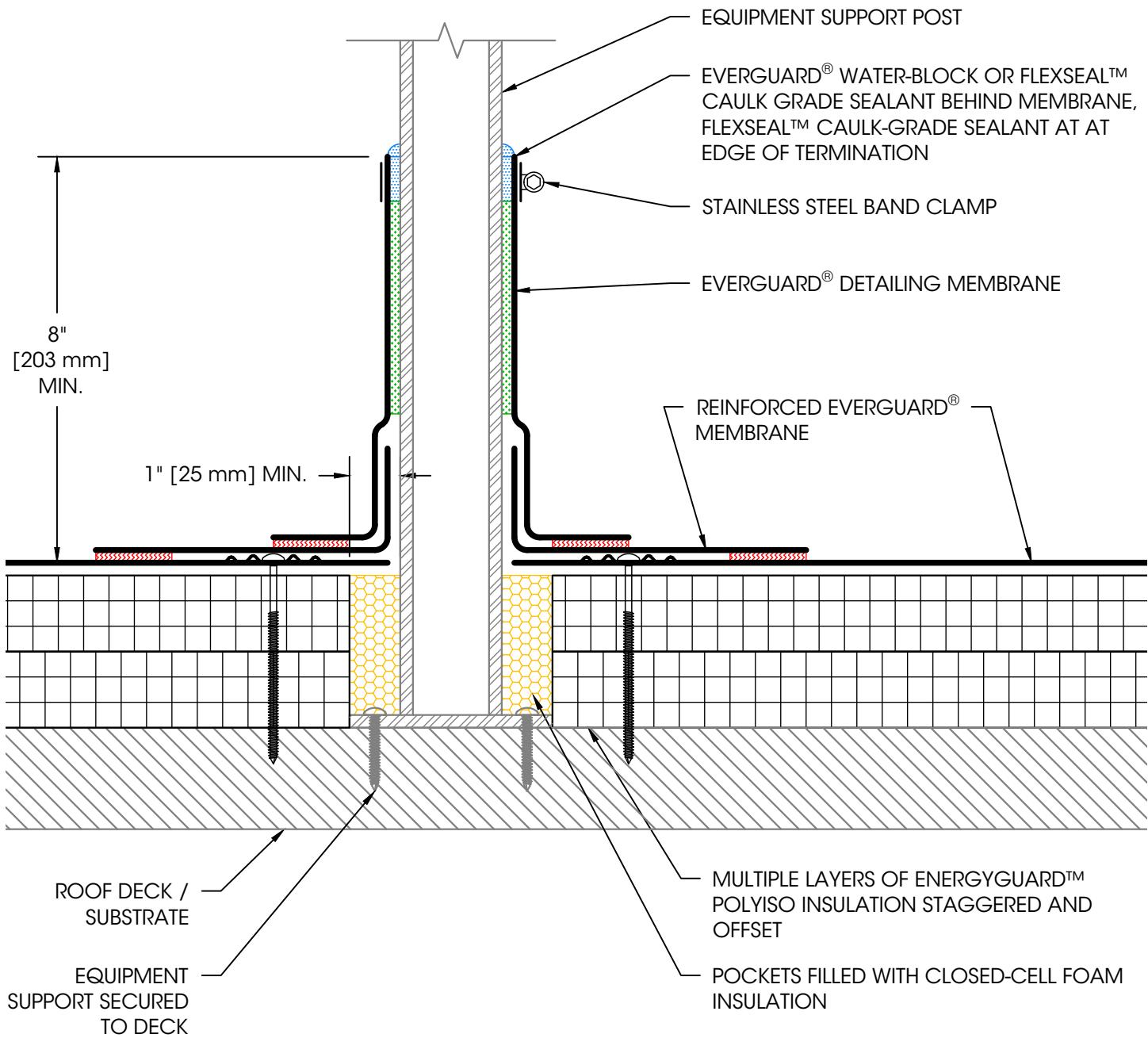
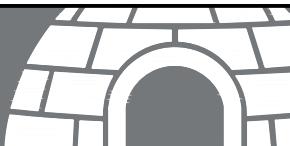
| | |
|--|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

Insulated Pipe
Penetration FlashingRoof Area:
Penetrations

Detail No:

Issue Date:
11/13/2023Scale:
N.T.S.

506D



LEGEND

| | |
|--|-----------|
| | HEAT WELD |
| | ADHESIVE |
| | SEALANT |

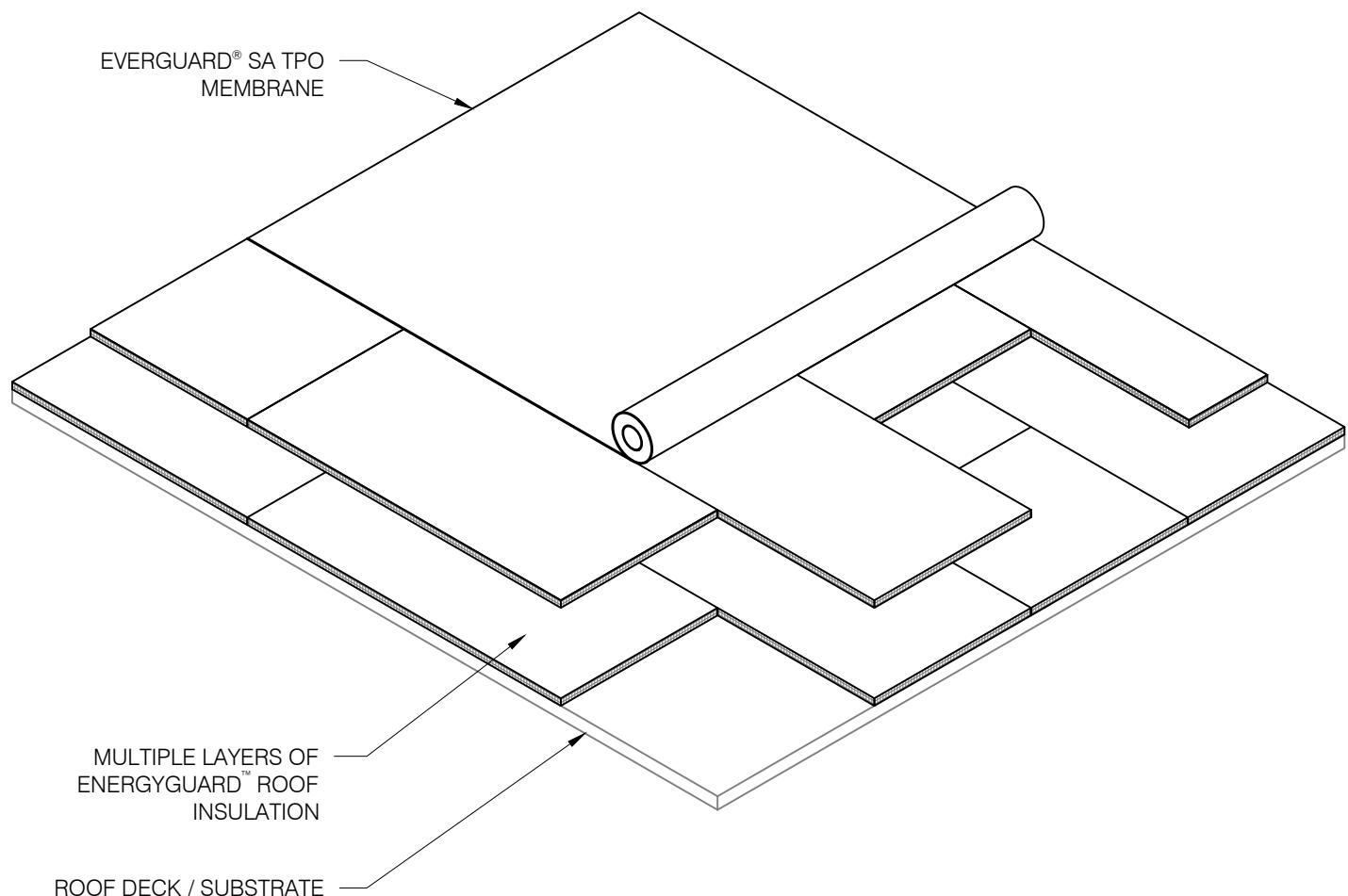
Deck Mounted Equipment Support Flashing

Roof Area:
Penetrations

Detail No:

Issue Date:
11/13/2023Scale:
N.T.S.

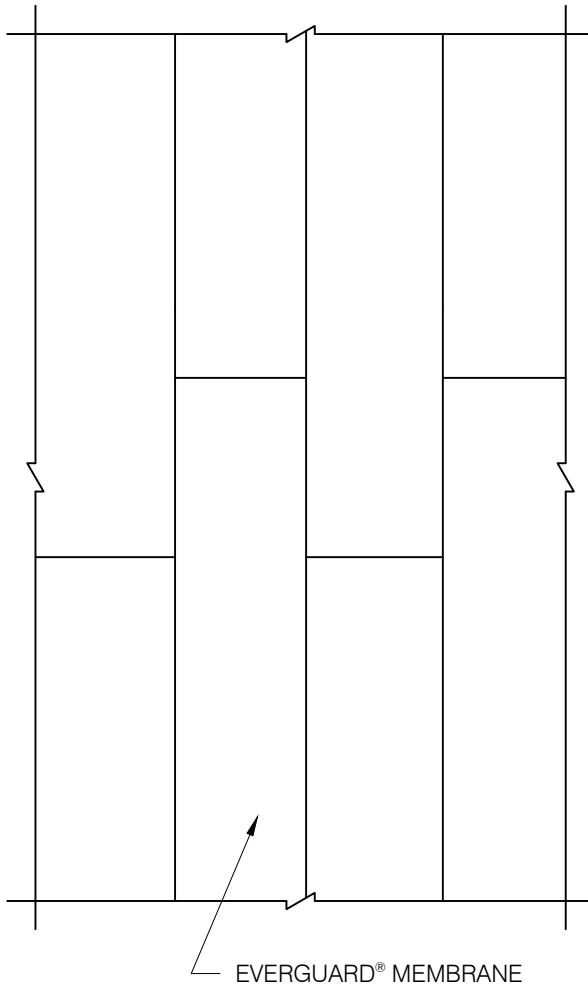
511C

**NOTES:**

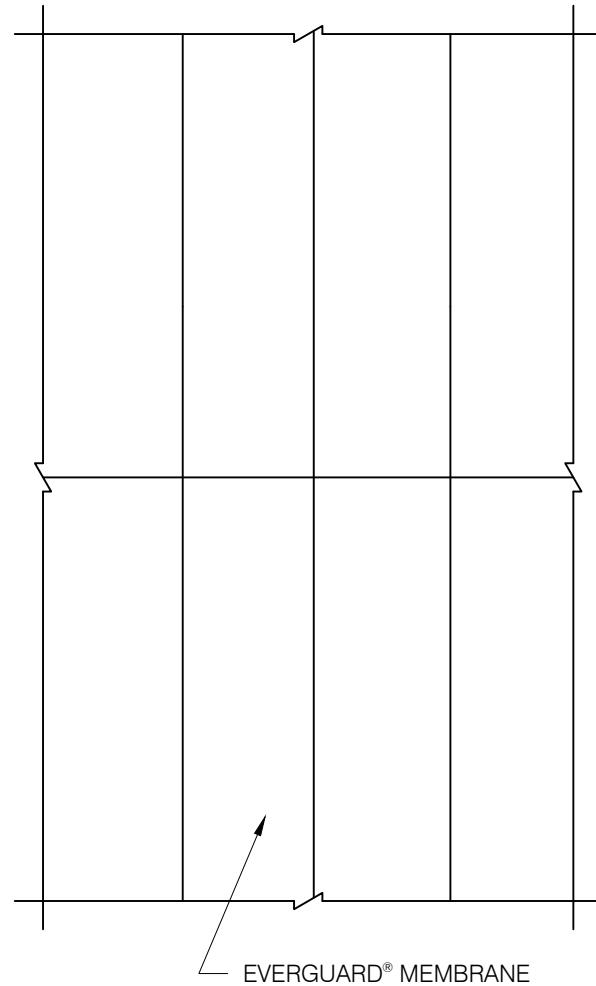
1. REFER TO THE EVERGUARD® TPO SA SELF-ADHERED ROOFING SYSTEM MANUALS ATTACHMENT TABLES FOR APPROVED INSULATION/SUBSTRATE AND ATTACHMENT.
2. INSULATION BOARDS MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" [152 mm] BETWEEN LAYERS.

| LEGEND | SYSTEM DETAIL | DETAIL |
|--------|---------------|------------|
| | ROOF AREA | ISSUE DATE |
| | FIELD OF ROOF | SCALE |
| | | 100 |

OPTION #1
STAGGERED SHEETS



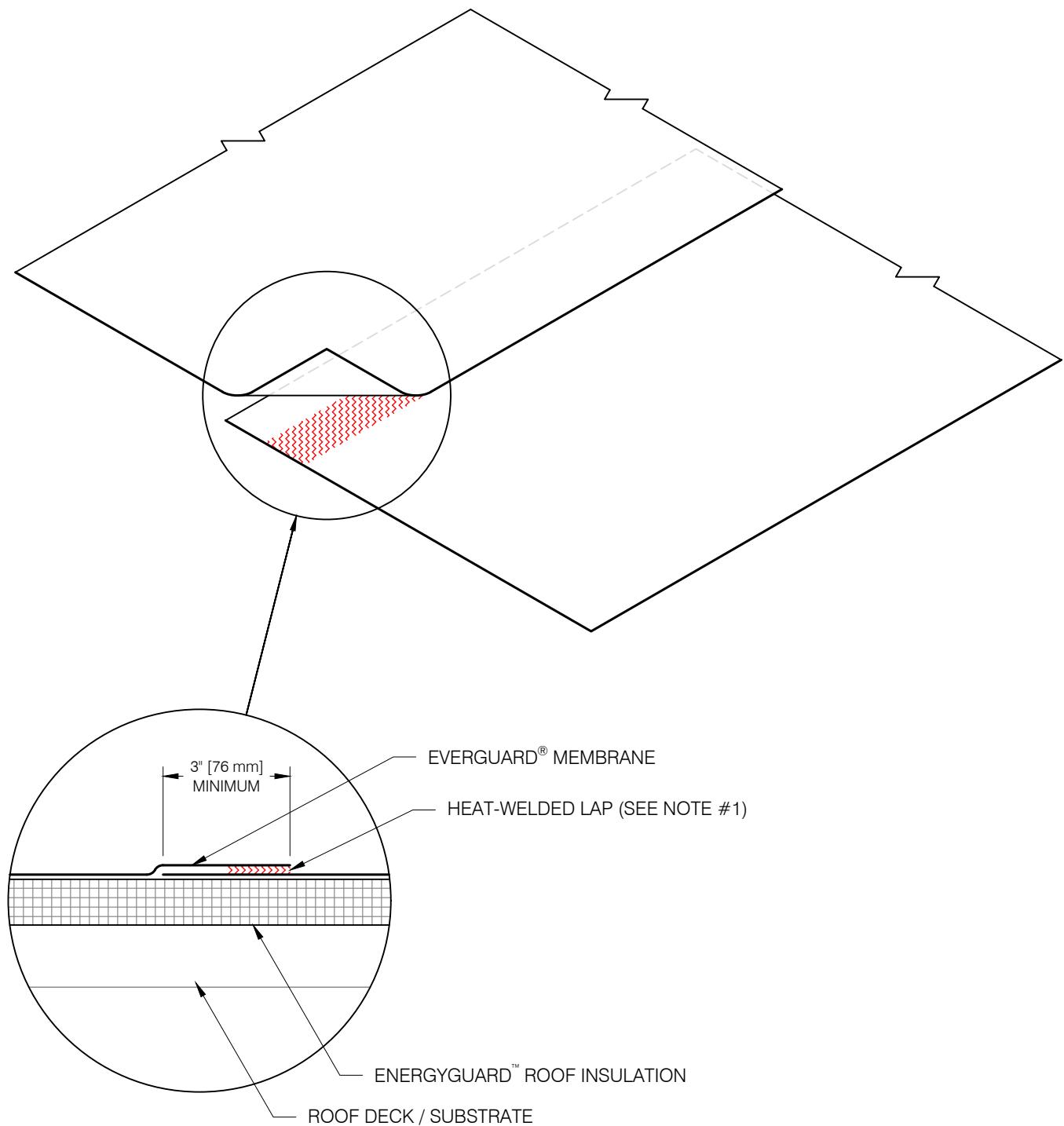
OPTION #2
ALIGNED SHEETS



NOTES:

1. REFER TO DETAILS #102A & 103A FOR MEMBRANE ATTACHMENT.

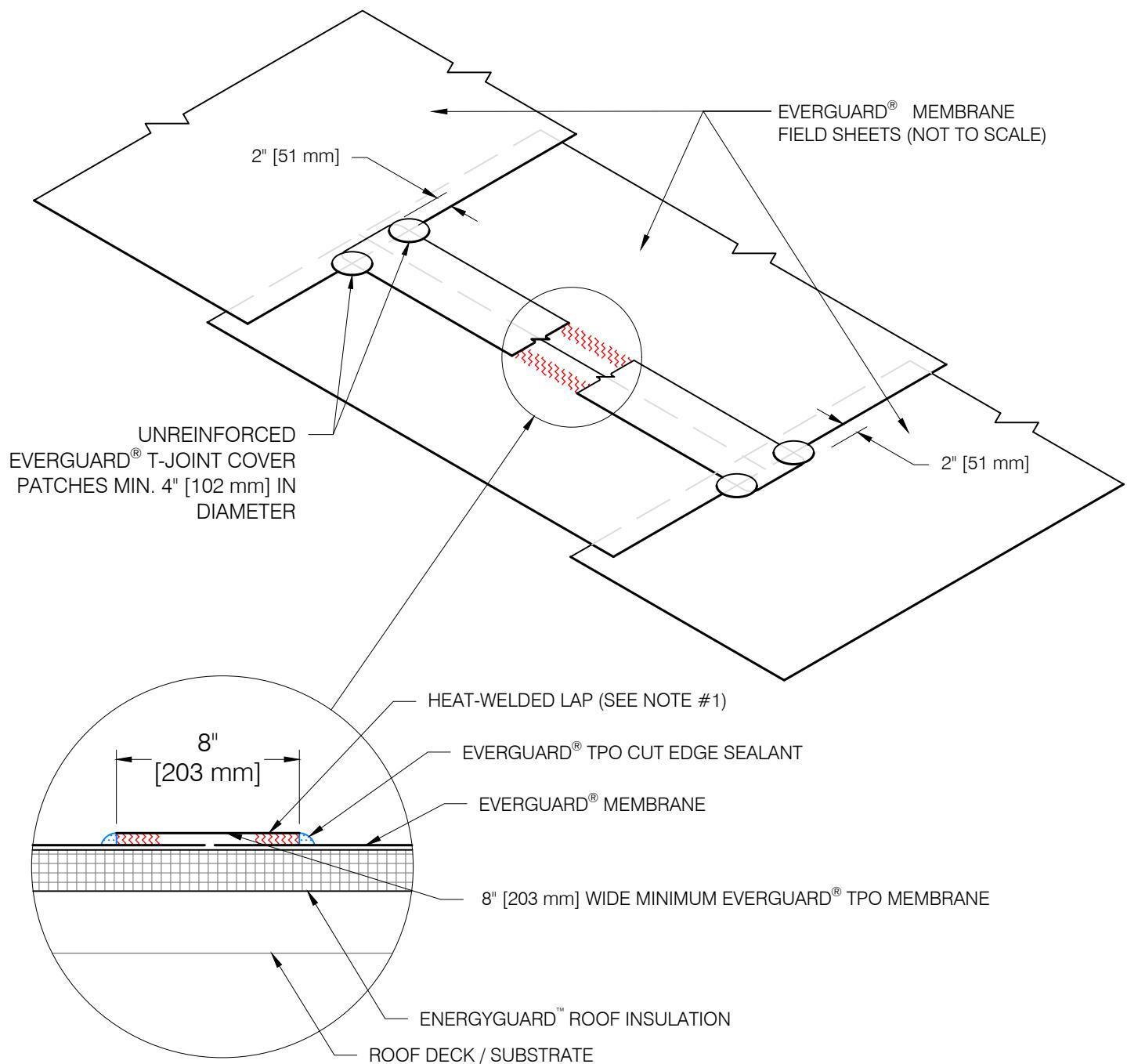
| LEGEND | MEMBRANE LAYOUT - FULL SHEETS | DETAIL |
|--------|-------------------------------|------------|
| | ROOF AREA | ISSUE DATE |
| | FIELD OF ROOF | SCALE |

**NOTES:**

1. FOR HEAT-WELDED LAPS, USE 1-1/2" [38.1 mm] WELD WITH MACHINE AUTOMATIC WELDER.

| LEGEND | SIDE LAP | | | DETAIL |
|--------|---------------|--|------------|--------|
| | HEAT WELD | | | |
| | ROOF AREA | | ISSUE DATE | SCALE |
| | FIELD OF ROOF | | 05/17/22 | N.T.S. |

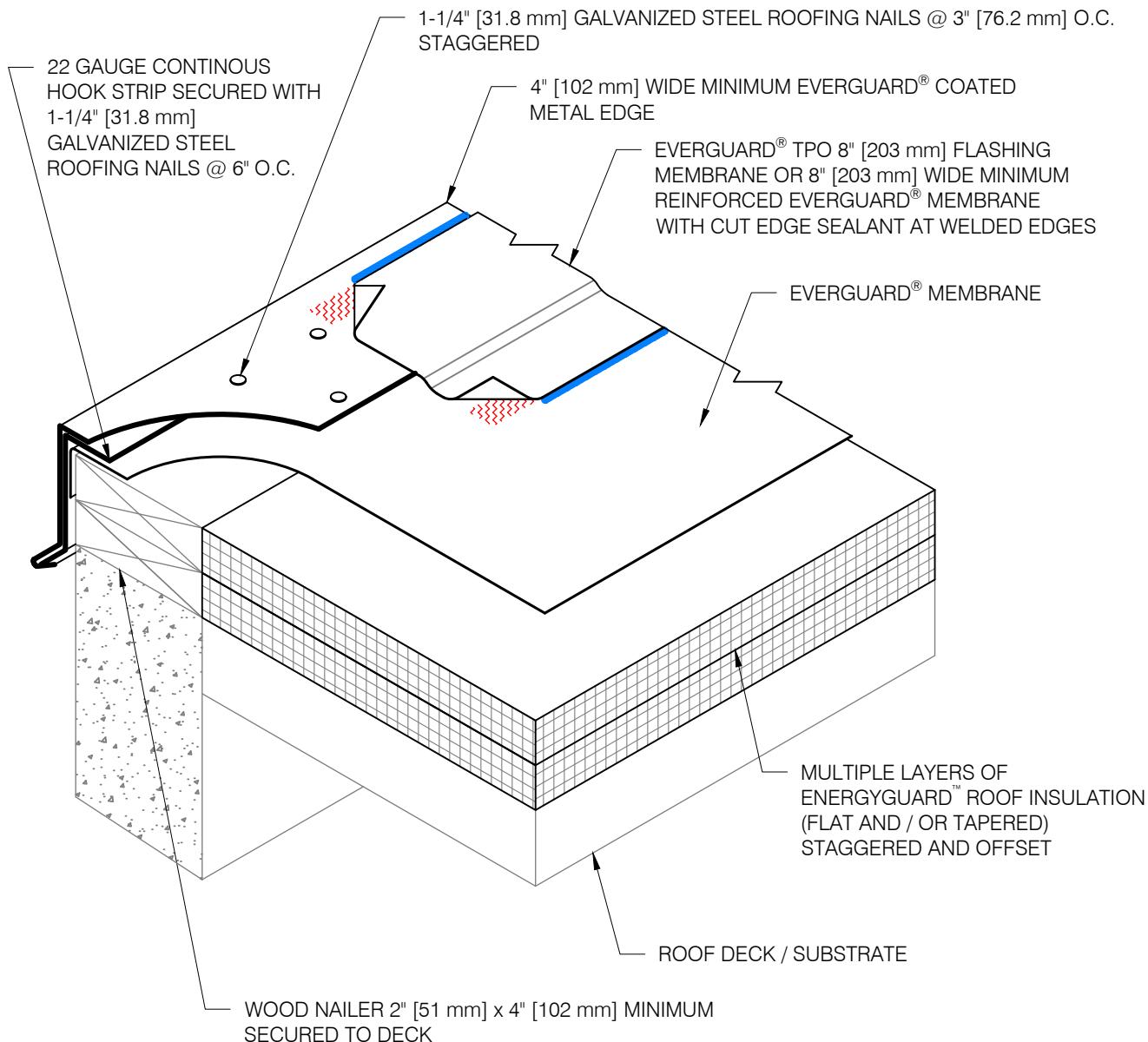
102A



NOTES:

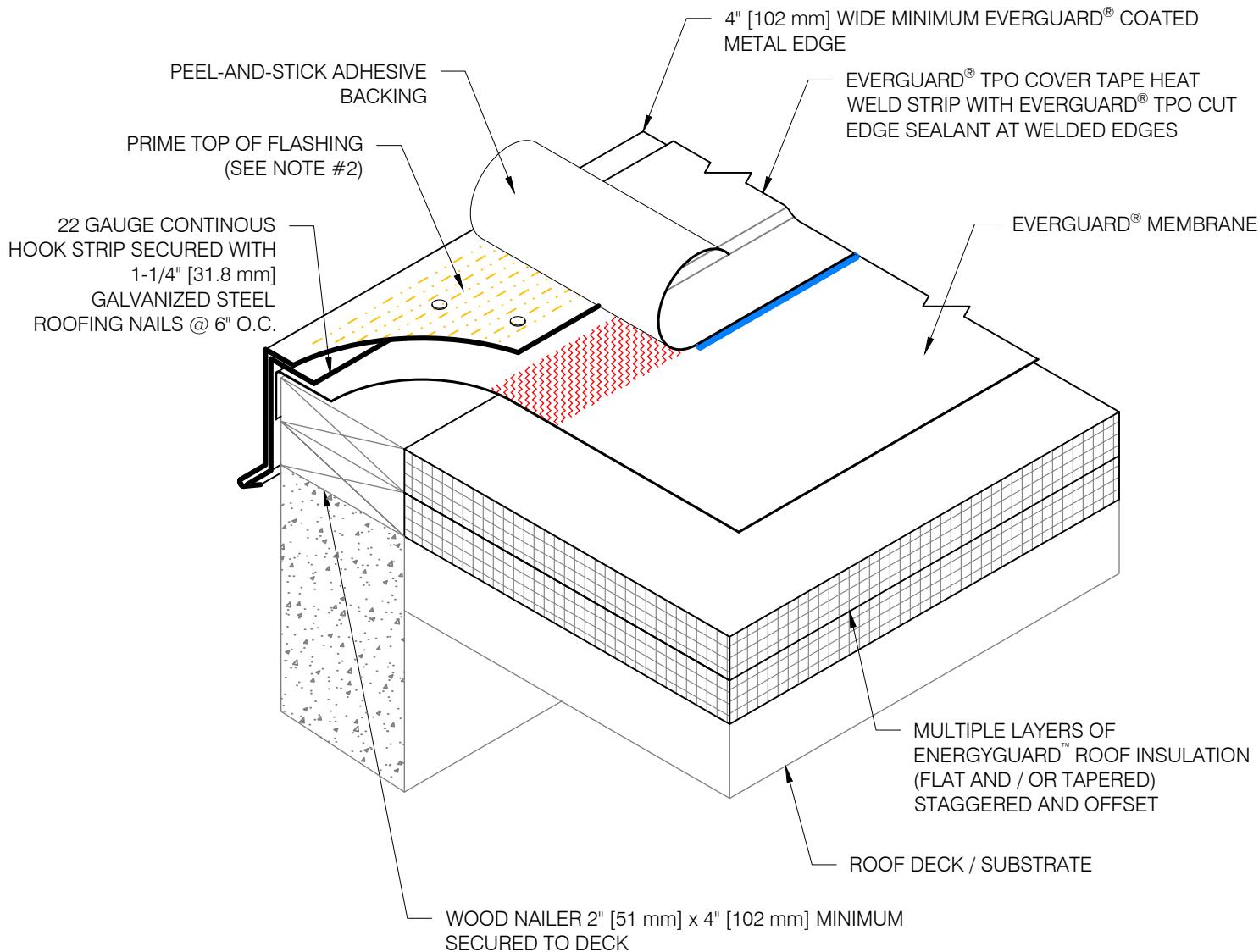
1. FOR HEAT-WELDED LAPS, USE 1-1/2" [38.1 mm] WELD WITH MACHINE AUTOMATIC WELDER.

| LEGEND | END LAP WITH COVER STRIP | | | DETAIL |
|------------------|--------------------------|------------|--------|--------|
| HEAT WELD | | | | |
| CUT EDGE SEALANT | | | | |
| | ROOF AREA | ISSUE DATE | SCALE | 103A |
| | FIELD OF ROOF | 05/17/22 | N.T.S. | |

**NOTES:**

1. FOR HEAT-WELDED LAPS, USE 1-1/2" [38.1 mm] WELD WITH MACHINE AUTOMATIC WELDER AND / OR 2" [50.8 mm] WELD WITH HAND WELDER.
2. DO NOT OVERLAP ENDS OF FLASHING WITH FLASHING STRIP.
3. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED FOR ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

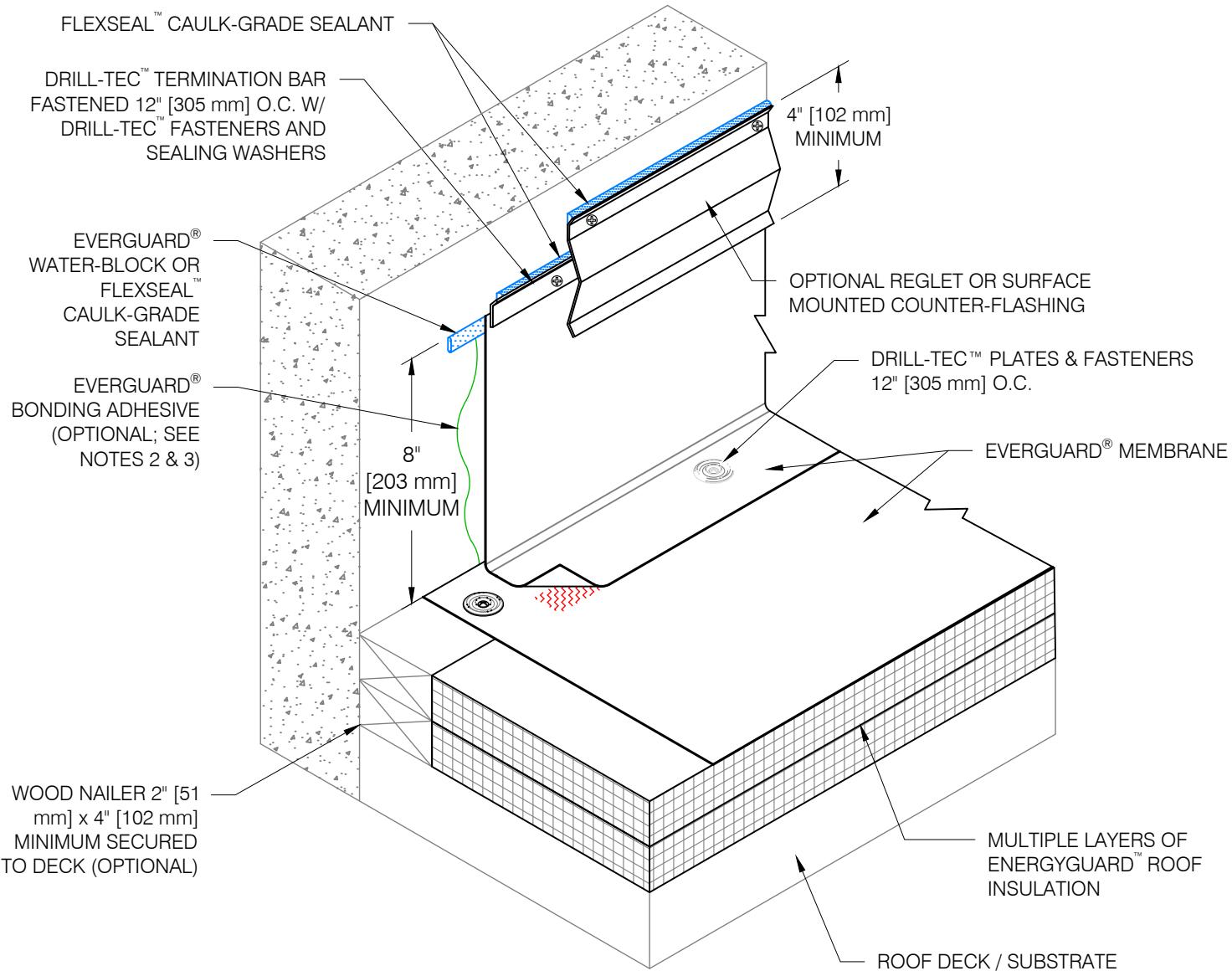
| LEGEND | COATED METAL DRIP EDGE | | | DETAIL |
|------------------|------------------------|------------|--------|--------|
| HEAT WELD | | | | |
| CUT EDGE SEALANT | | | | |
| | ROOF AREA | ISSUE DATE | SCALE | |
| | ROOF EDGE | 05/17/22 | N.T.S. | 201B |



NOTES:

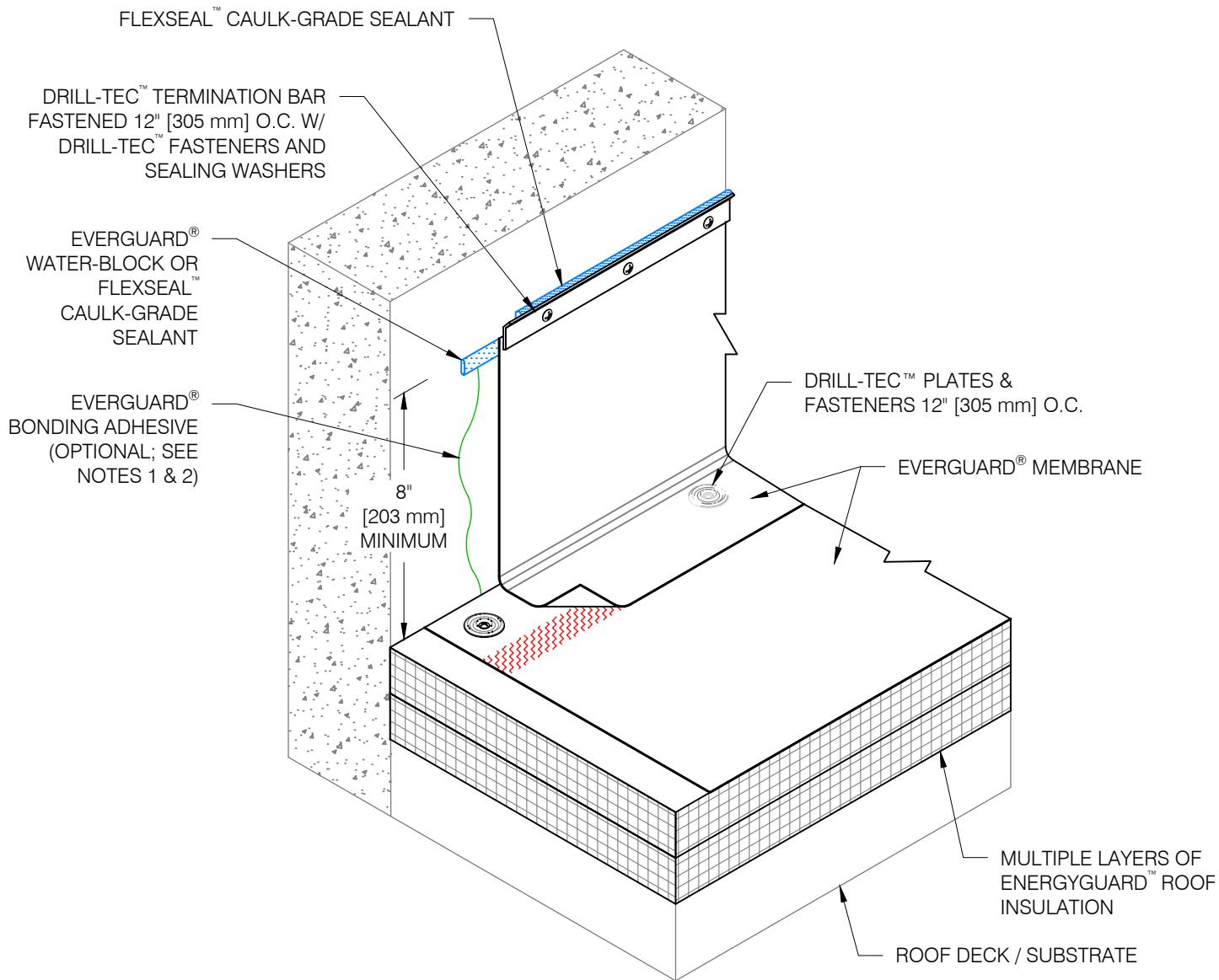
1. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER OR EVERGUARD® CLEANWELD™ CONDITIONER AND ALLOW TO DRY.
2. PRIME TOP OF FLASHING WITH TPO PRIMER OR LOW VOC TPO PRIMER.
3. DO NOT SPILL PRIMER ON HEAT WELDED SEAM AREA.
4. DO NOT OVERLAP ENDS OF FLASHING WITH FLASHING STRIP.
5. HEAT WELD THE COVER TAPE (NON-ADHESIVE SIDE ONLY) TO THE MEMBRANE AREA USING A 1-1/2" [38.1 mm] WELD WITH MACHINE AUTOMATIC WELDER.
6. CONTACT GAF FOR APPROPRIATE RECOMMENDATIONS NEEDED FOR ANSI/SPRI/FM4435/ES-1 DESIGN CRITERIA.

| LEGEND | TPO COVER TAPE HEAT WELD STRIP OVERLAP AT ROOF EDGE | | | DETAIL |
|------------------|---|------------|--------|--------|
| HEAT WELD | | | | |
| ADHESIVE | | | | |
| CUT EDGE SEALANT | | | | |
| PRIMER | | | | |
| | ROOF AREA | ISSUE DATE | SCALE | 218 |
| | ROOF EDGE | 05/17/22 | N.T.S. | |

**NOTES:**

1. EXISTING REGLET IS ACCEPTABLE IF METAL IS IN GOOD CONDITION.
2. IF EVERGUARD® SA MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.
3. IF EVERGUARD® SMOOTH BACK MEMBRANE IS USED FOR WALL FLASHING, ADHESIVE IS REQUIRED FOR HEIGHTS 30" - 66" [762 mm - 1.68 m].
4. EXPOSED WALLS/CURBS MUST BE WATERPROOFED AND MAINTAINED ABOVE THE BASE FLASHING IN ORDER FOR ANY SURFACE-MOUNTED TERMINATION TO BE EFFECTIVE.

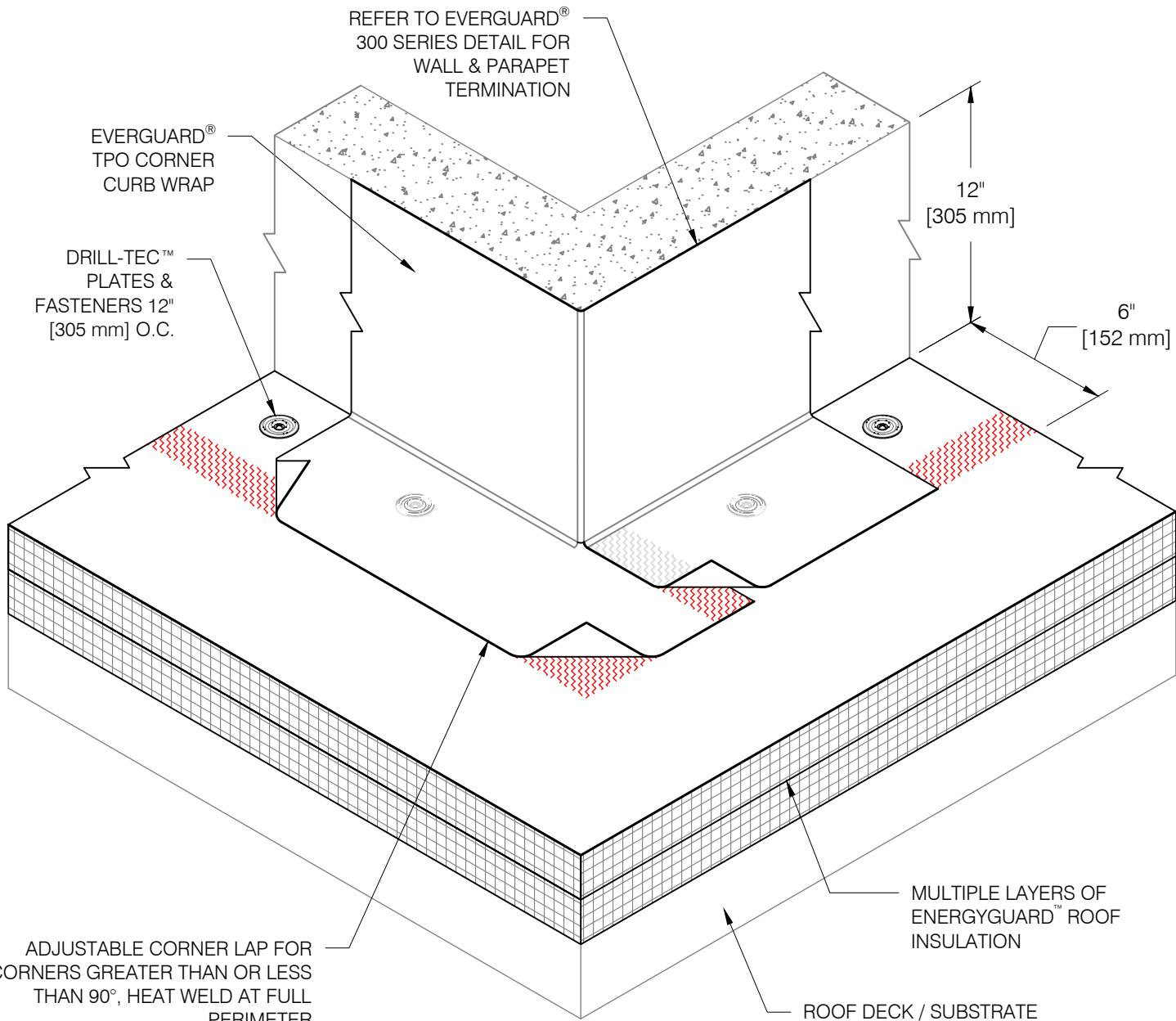
| LEGEND | | WALL FLASHING WITH COUNTER-FLASHING | | | DETAIL |
|--------|-----------|-------------------------------------|------------|--------|--------|
| | HEAT WELD | | | | |
| | ADHESIVE | | | | |
| | SEALANT | ROOF AREA | ISSUE DATE | SCALE | 301A |
| | | WALL & CURB | 05/17/22 | N.T.S. | |



NOTES:

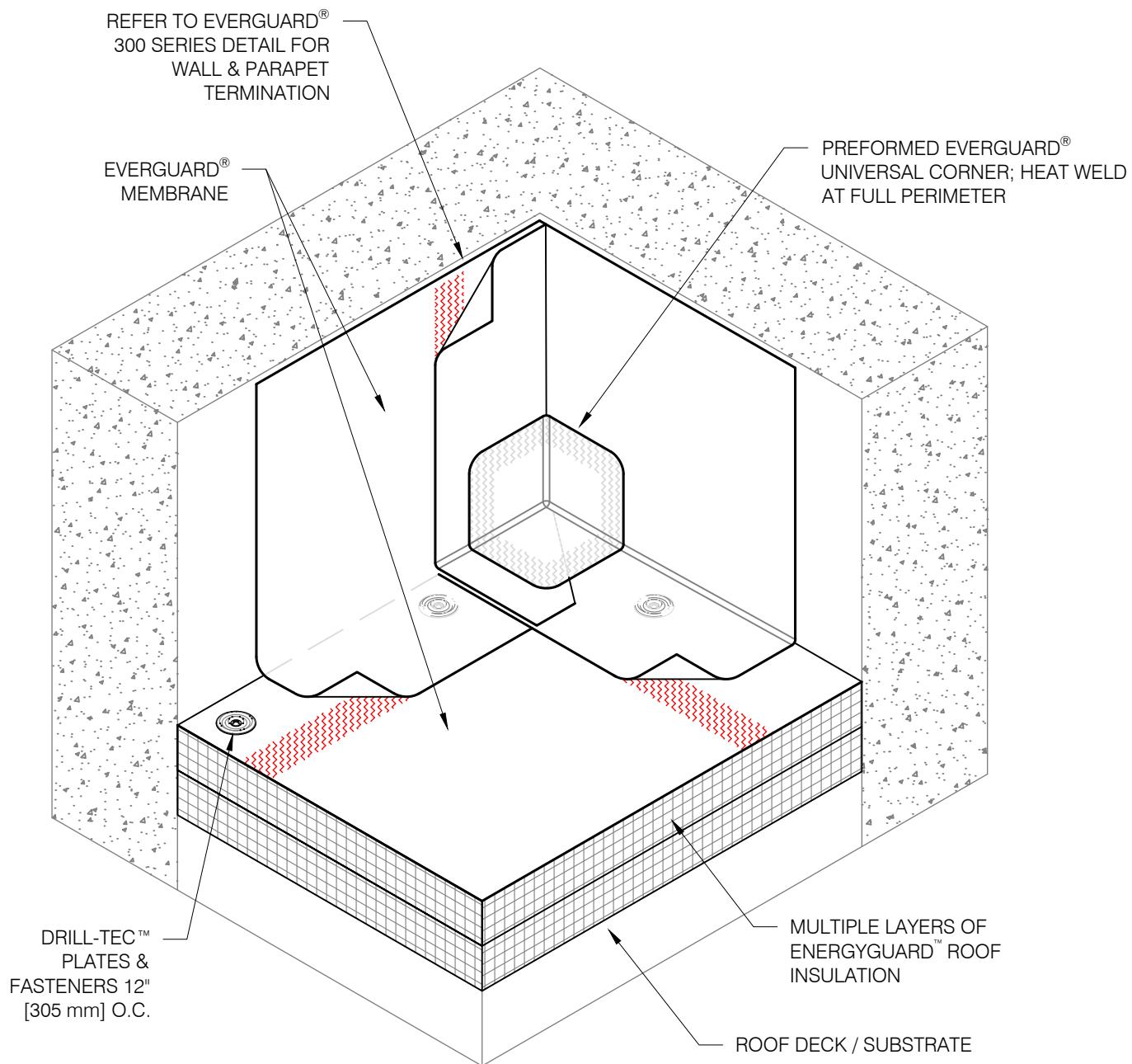
1. IF EVERGUARD® SA MEMBRANE IS USED, BONDING ADHESIVE IS NOT NEEDED AND WALL MUST BE PRIMED.
2. IF EVERGUARD® SMOOTH BACK MEMBRANE IS USED FOR WALL FLASHING, ADHESIVE IS REQUIRED FOR HEIGHTS 30" - 66" [762 mm - 1.68 m].

| LEGEND | | WALL & CURB FLASHING WITH TERMINATION BAR | | | DETAIL |
|--------|-----------|---|------------|--------|--------|
| | HEAT WELD | | | | |
| | ADHESIVE | | | | |
| | SEALANT | ROOF AREA | ISSUE DATE | SCALE | 302A |
| | | WALL & CURB | 05/17/22 | N.T.S. | |

NOTES:

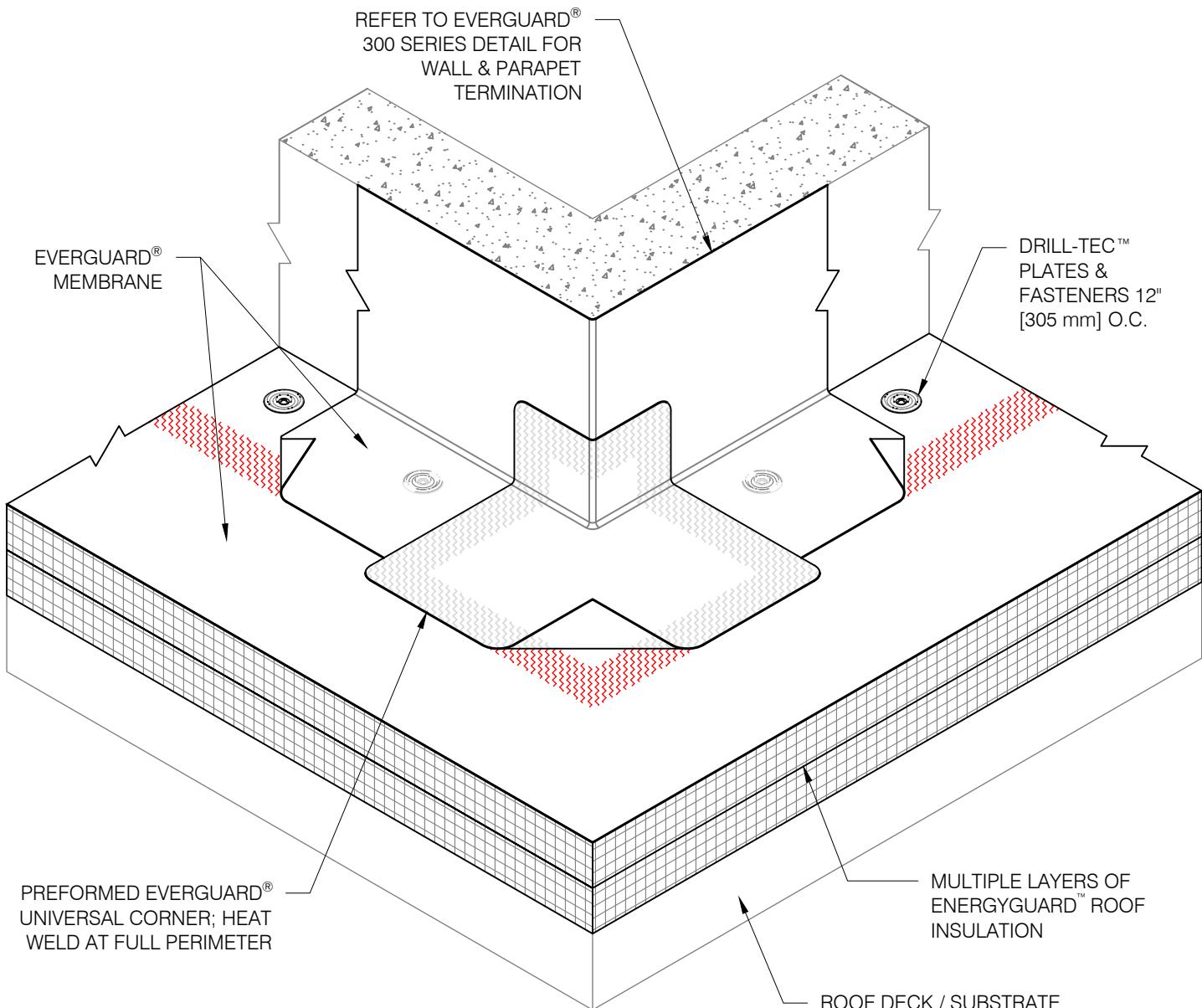
1. FOUR CORNER CURB WRAP PIECES ARE NEEDED FOR COMPLETION; VARYING SIZES MAY BE REQUIRED.
2. CORNER WRAP MAY BE ADHERED OR INSTALLED DRY.

| LEGEND | CORNER CURB WRAP | | | DETAIL |
|-----------|------------------|------------|--------|--------|
| HEAT WELD | | | | 325 |
| | ROOF AREA | ISSUE DATE | SCALE | |
| | WALL & CURB | 05/17/22 | N.T.S. | |

NOTES:

1. WALL FLASHING MAY BE ADHERED OR INSTALLED DRY (REFER TO 300 DETAIL SERIES).
2. INSIDE CORNERS MAY ALSO BE FIELD FABRICATED USING UNREINFORCED MEMBRANE.

| LEGEND | UNIVERSAL PREFORMED CORNER - INSIDE REINFORCEMENT | DETAIL |
|-----------|---|------------|
| HEAT WELD | | |
| | ROOF AREA | ISSUE DATE |
| | WALL & CURB | SCALE |
| | | 05/17/22 |
| | | N.T.S. |

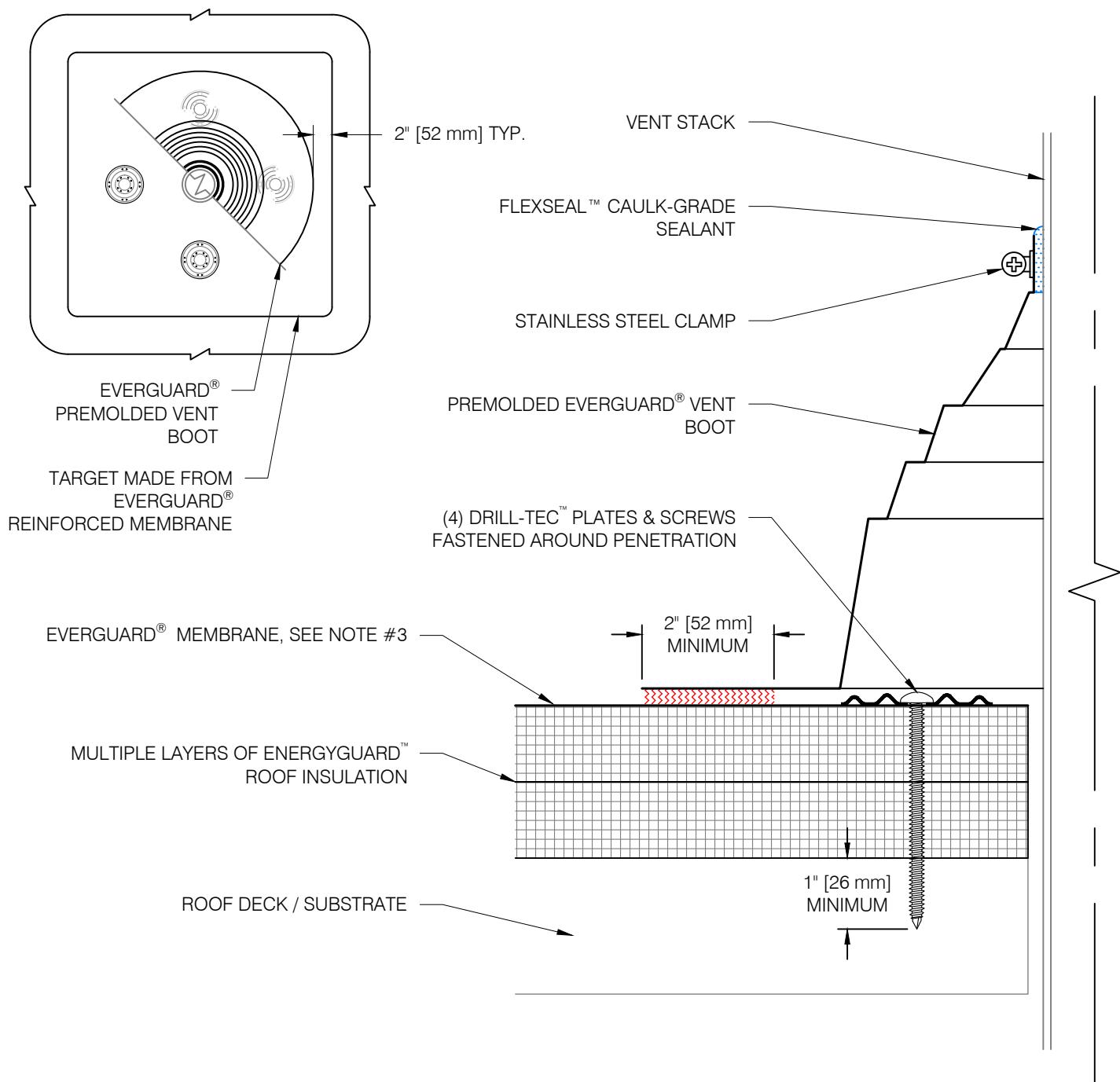


NOTES:

1. FLASHING MAY BE ADHERED OR INSTALLED DRY (REFER TO 300 DETAIL SERIES).
2. KEEP FASTENERS BACK FROM CORNER 6" [152 mm] MAXIMUM.

| LEGEND | UNIVERSAL PREFORMED CORNER - OUTSIDE REINFORCEMENT | | | DETAIL |
|--------|--|--|-------------|------------|
| | HEAT WELD | | | |
| | | | ROOF AREA | ISSUE DATE |
| | | | WALL & CURB | SCALE |
| | | | 05/17/22 | N.T.S. |
| | | | 329A | |

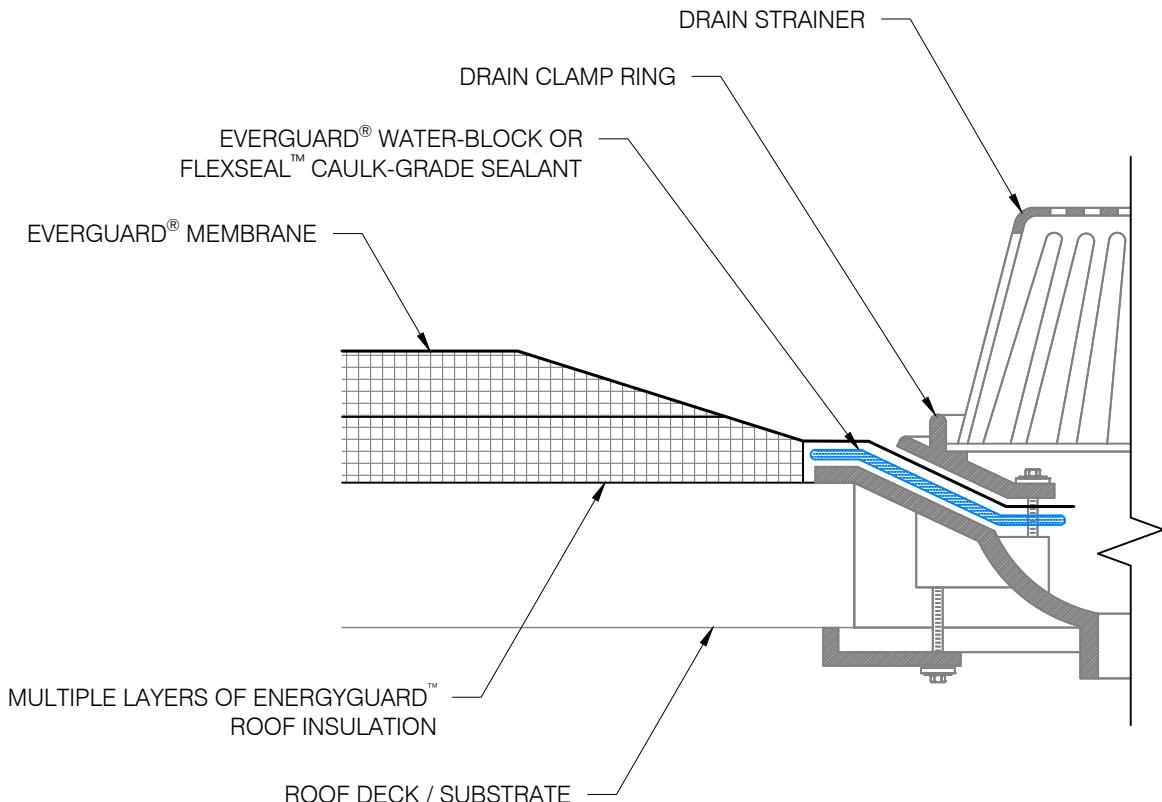
ALTERNATE INSTALLATION (SEE NOTE #3)



NOTES:

1. DO NOT CUT THROUGH THE SIDE OF THE PREMOLDED BOOT; IT MUST BE INSTALLED OVER THE VENT PIPE.
2. FOUR DRILL-TEC™ PLATES & SCREWS MUST BE FASTENED AROUND PENETRATION.
3. IF THE PLATES AND FASTENERS INTRUDE INTO THE BOOT FLANGE AREA, THEN A TARGET MUST BE FIRST INSTALLED OVER THE PLATES AND FASTENERS PRIOR TO BOOT INSTALLATION.

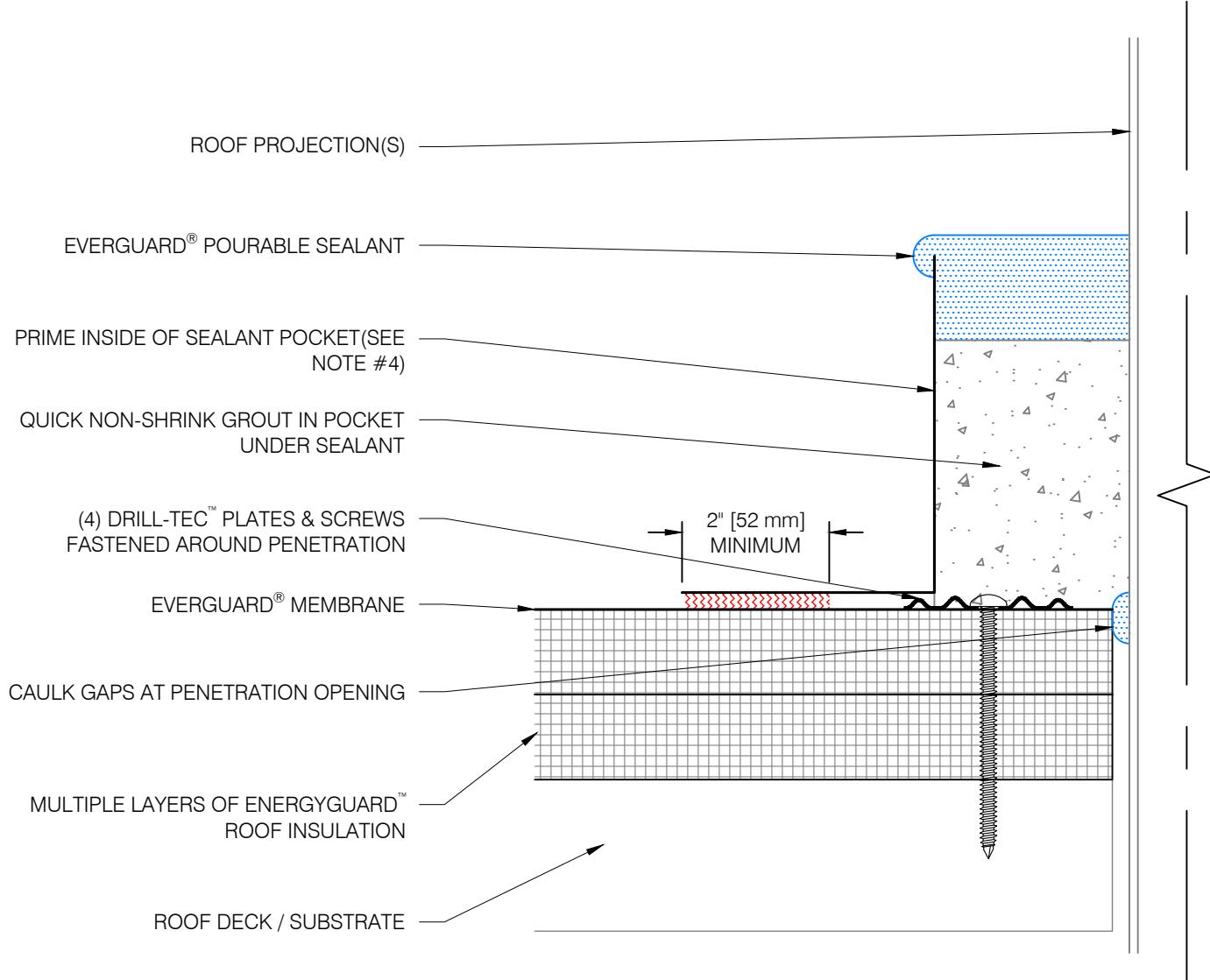
| LEGEND | | PREFORMED VENT BOOT | | | DETAIL |
|--|--|---------------------|--|------------|---------|
|  HEAT WELD | | | | | |
|  SEALANT | | | | | |
| | | ROOF AREA | | ISSUE DATE | SCALE |
| | | PENETRATIONS | | 05/17/22 | 6" = 1' |



NOTES:

1. A FIELD WELD CANNOT PASS WITHIN 9" [227 mm] OF THE CLAMPING, OR WITHIN THE DRAIN SUMP ITSELF.
2. MEMBRANE MUST EXTEND 1" [25.4 mm] MINIMUM BEYOND THE BOLT HOLES; CLAMPING RING BOLTS MUST PENETRATE THE MEMBRANE.
3. TAPER INSULATION TO CREATE A ROOF SUMP 36" x 36" [0.914 m X 0.914 m] MINIMUM IN SIZE (WHERE APPLICABLE).
4. USE ONE FULL TUBE OF FLEXSEAL™ CAULK-GRADE SEALANT OR EVERGUARD® WATER-BLOCK PER DRAIN.

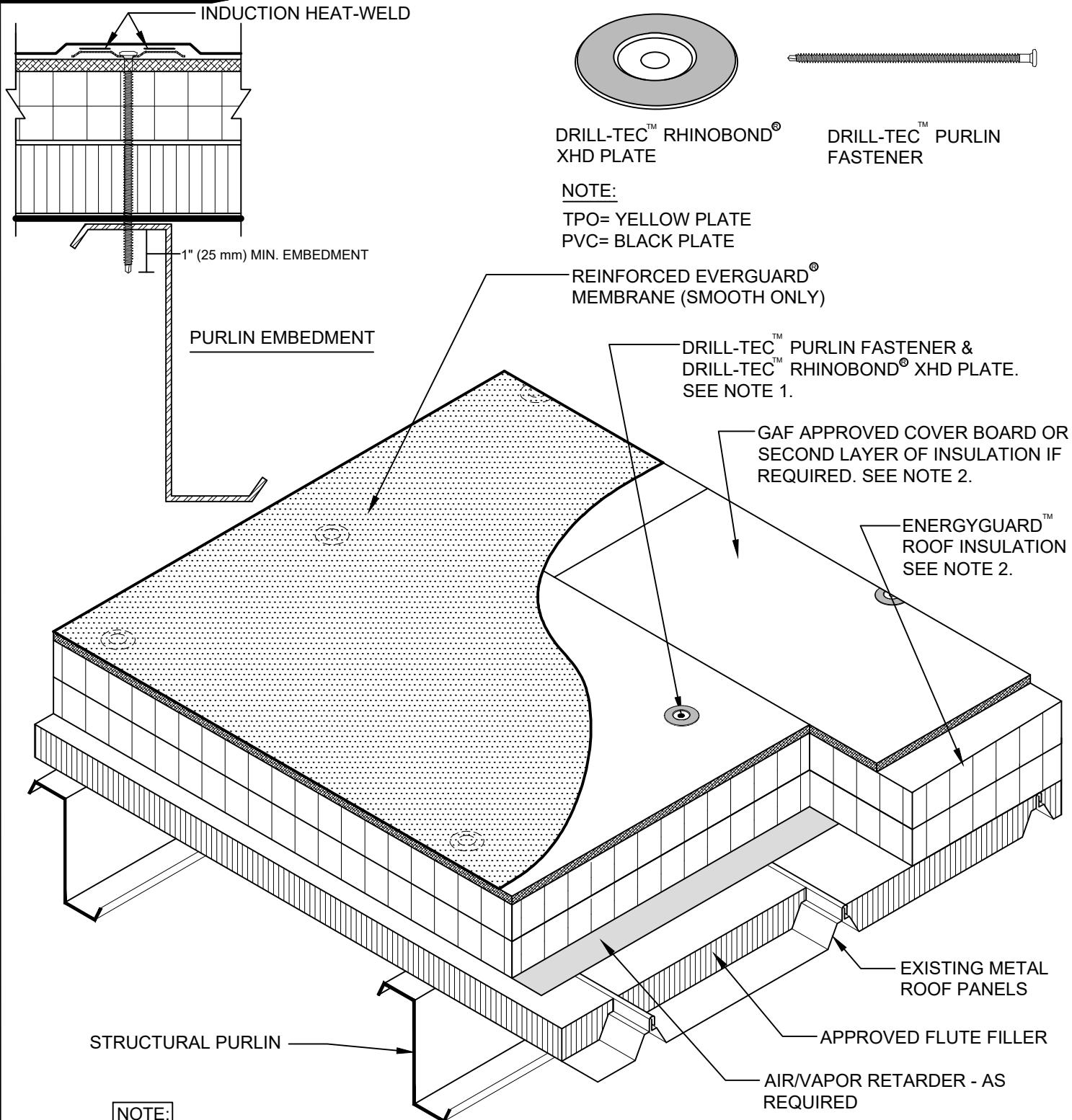
| LEGEND | DRAIN - STANDARD FLASHING | | | DETAIL |
|---------|---------------------------|------------|--------|--------|
| SEALANT | ROOF AREA | ISSUE DATE | SCALE | 513A |
| | | | | |
| | PENETRATIONS | 05/17/22 | N.T.S. | |



NOTES:

1. ALLOW 2" [52 mm] CLEARANCE AROUND THE PROJECTION; IF MULTIPLE PROJECTIONS EXIST, ALLOW 1" [25.4 mm] BETWEEN THE PROJECTION & POCKET.
2. THE EXISTING PROJECTION(S) MUST BE CLEAN OF ALL DEBRIS PRIOR TO INSTALLATION.
3. FOUR DRILL-TEC™ PLATES & SCREWS MUST BE FASTENED AROUND PENETRATION.
4. EVERGUARD® POURABLE SEALANT POCKET MUST BE PRIMED WITH TPO PRIMER OR LOW VOC TPO PRIMER.
5. IF THE SEALANT POCKET MUST BE CUT, STRIP IN CUT WITH UNREINFORCED TPO STRIP 4" [102 mm] WIDE MINIMUM AND RUN OUT ONTO DECK SHEET 2" [52 mm] MINIMUM.
6. IF PLATES AND FASTENERS ENCROACH INTO THE SEAM AREA OF THE POCKET, THEN A TARGET PATCH MUST BE ADDED FIRST TO THE COVER FASTENERS.
7. POURABLE SEALANT IS CONSIDERED A MAINTENANCE ITEM AND IS EXCLUDED FROM GUARANTEE COVERAGE.

| LEGEND | | POURABLE SEALANT POCKET | | | DETAIL |
|--------|-----------|-------------------------|------------|---------|--------|
| | HEAT WELD | | | | |
| | SEALANT | | | | |
| | | ROOF AREA | ISSUE DATE | SCALE | |
| | | PENETRATIONS | 07/26/22 | 6" = 1' | 525 |



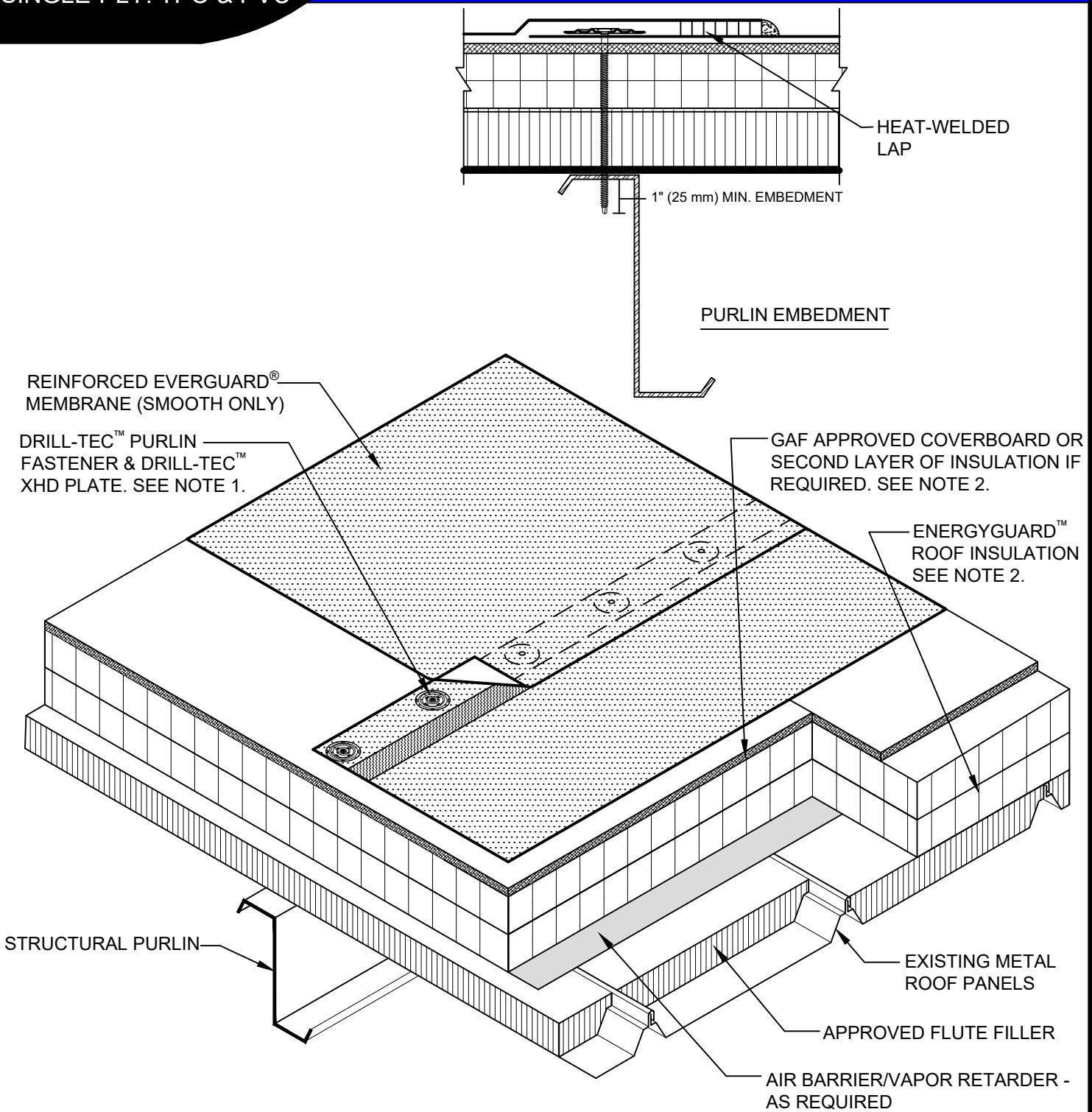
1. REFER TO THE DRILL-TEC™ RHINOBOND® PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.
3. PRELIMINARY FASTENING MAY BE REQUIRED.

GAF

DRILL-TEC™ RHINOBOND® ASSEMBLY
- PURLIN ATTACHMENTDRAWING #
100FTHIS DETAIL APPLIES TO:
RHINOBOND® SYSTEMSISSUE / REVISION DATE
8/17/20SCALE
N.T.S.

LEGEND

— HEAT-WELDED



NOTE:

1. REFER TO THE MECHANICALLY FASTENED PURFLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.
3. PRELIMINARY FASTENING MAY BE REQUIRED.

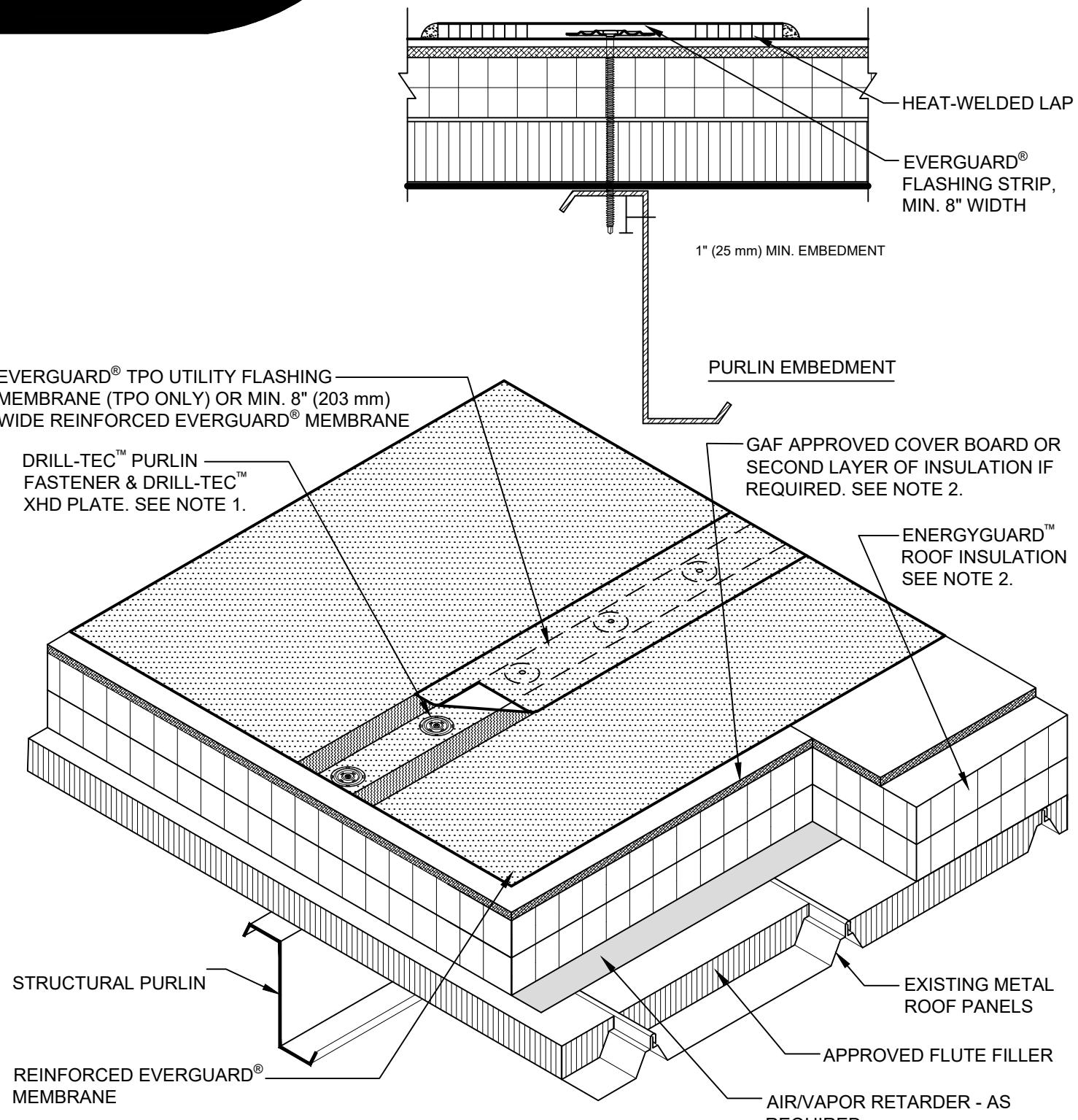
GAF

PURFLIN ASSEMBLY - FASTENERS LOCATED IN SEAMS

LEGEND

HEAT-WELDED

DRAWING #
100GTHIS DETAIL APPLIES TO:
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE
8/17/20SCALE
N.T.S.

**NOTE:**

1. REFER TO THE MECHANICALLY FASTENED PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. INSULATION BOARDS INSTALLED IN SINGLE OR MULTIPLE LAYERS MUST HAVE THE JOINTS BETWEEN THE BOARDS STAGGERED IN ALL DIRECTIONS A MINIMUM OF 6" (152 mm) BETWEEN LAYERS.
3. PRELIMINARY FASTENING MAY BE REQUIRED.


**MECHANICALLY ATTACHED ASSEMBLY PURLIN DETAIL
- FASTENERS LOCATED IN SEAMS**

 DRAWING #
100H

THIS DETAIL APPLIES TO:

ISSUE / REVISION DATE

SCALE

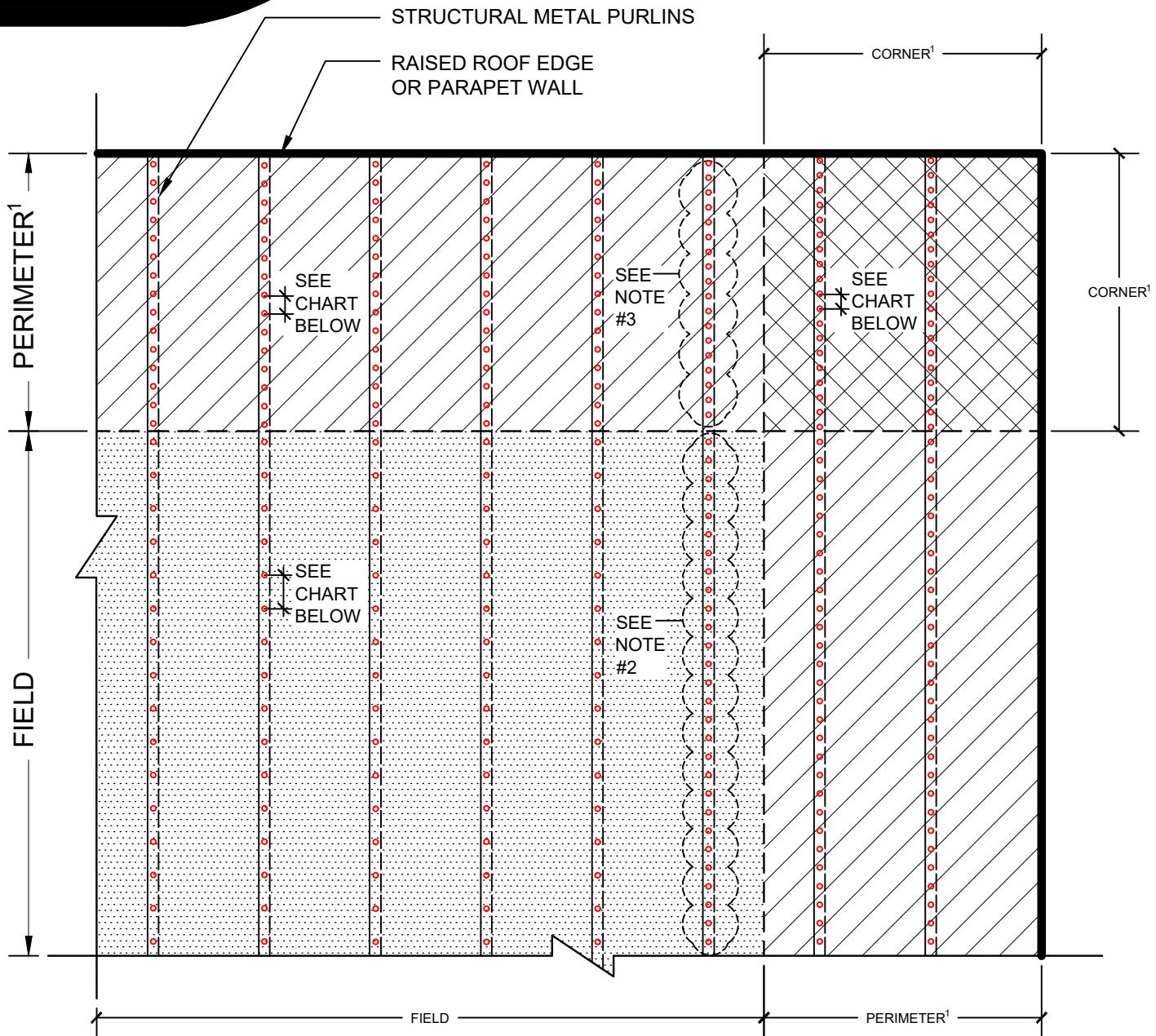
MECHANICALLY ATTACHED SYSTEMS

8/17/20

N.T.S.

LEGEND

HEAT-WELDED



| MAXIMUM FASTENER SPACING | | | |
|--------------------------|------------|----------------|-------------|
| PURLIN TYPE | FIELD ZONE | PERIMETER ZONE | CORNER ZONE |
| MIN. 16 GA. | 12" O.C. | 10" O.C. | 8" O.C. |
| MIN. 14 GA. | 18" O.C. | 12" O.C. | 9" O.C. |
| MIN. 12 GA. | 18" O.C. | 12" O.C. | 9" O.C. |

NOTE:

1. SEE EVERGUARD® SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ZONES.
2. DEFAULTS TO PERIMETER FASTENING RATE.
3. DEFAULTS TO CORNER FASTENING RATE.



PURLIN FASTENING ZONES
- MECHANICALLY ATTACHED ASSEMBLY

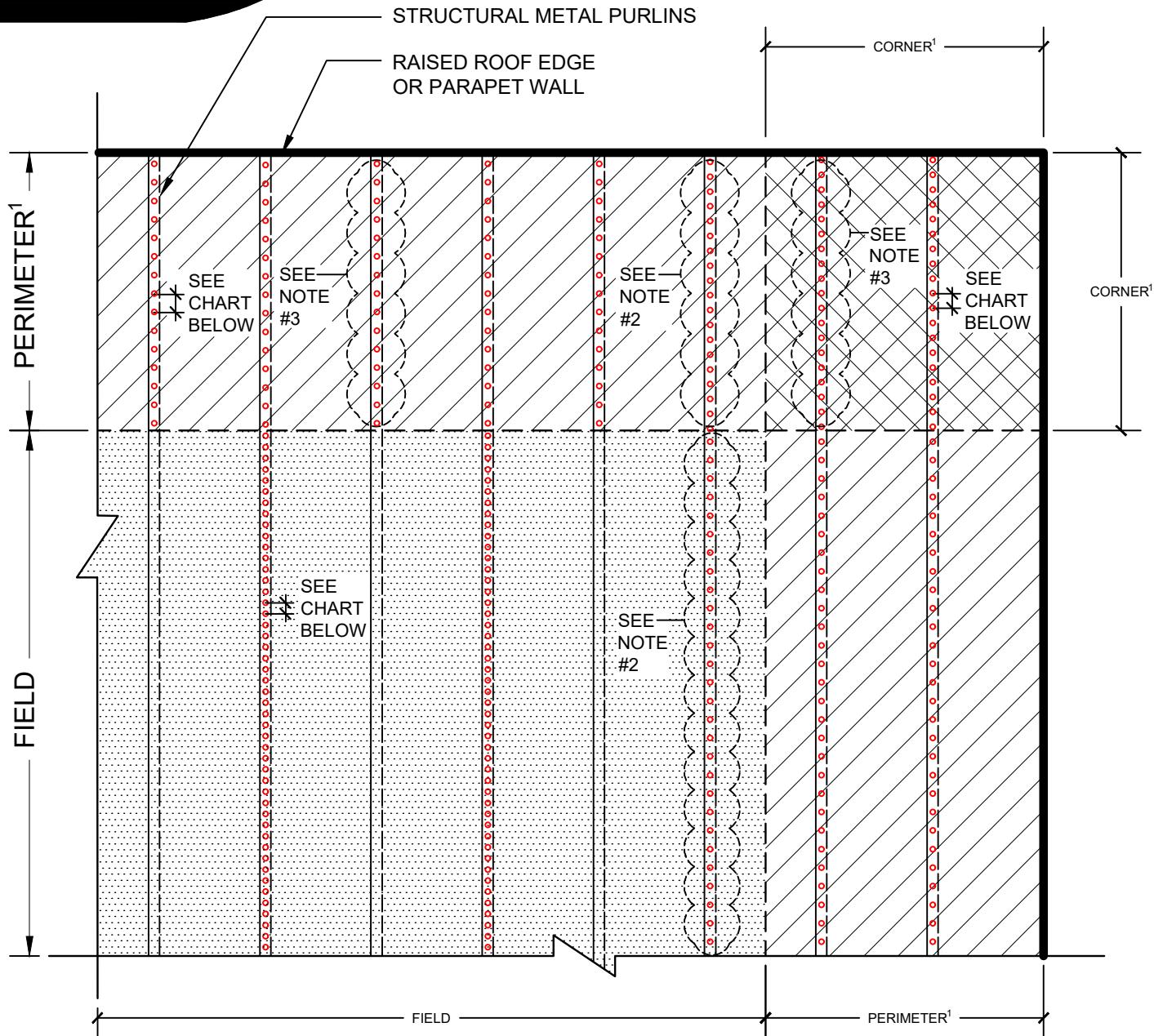
DRAWING #
108B

THIS DETAIL APPLIES TO:
MECHANICALLY ATTACHED SYSTEMS

8/17/20

LEGEND

| | |
|--|----------------|
| | FIELD ZONE |
| | PERIMETER ZONE |
| | CORNER ZONE |



| MAXIMUM FASTENER SPACING | | | |
|--------------------------|------------|----------------|-------------|
| PURLIN TYPE | FIELD ZONE | PERIMETER ZONE | CORNER ZONE |
| MIN. 16 GA. | 6" O.C. | 10" O.C. | 8" O.C. |
| MIN. 14 GA. | 9" O.C. | 12" O.C. | 9" O.C. |
| MIN. 12 GA. | 9" O.C. | 12" O.C. | 9" O.C. |

NOTE:

1. SEE EVERGUARD® SPEC MANUAL TO DETERMINE PERIMETER AND CORNER ZONES.
2. DEFAULTS TO PERIMETER FASTENING RATE.
3. DEFAULTS TO CORNER FASTENING RATE.


**EVERY OTHER PURFLIN FASTENING ZONES
- MECHANICALLY ATTACHED ASSEMBLY**

 DRAWING #
108C

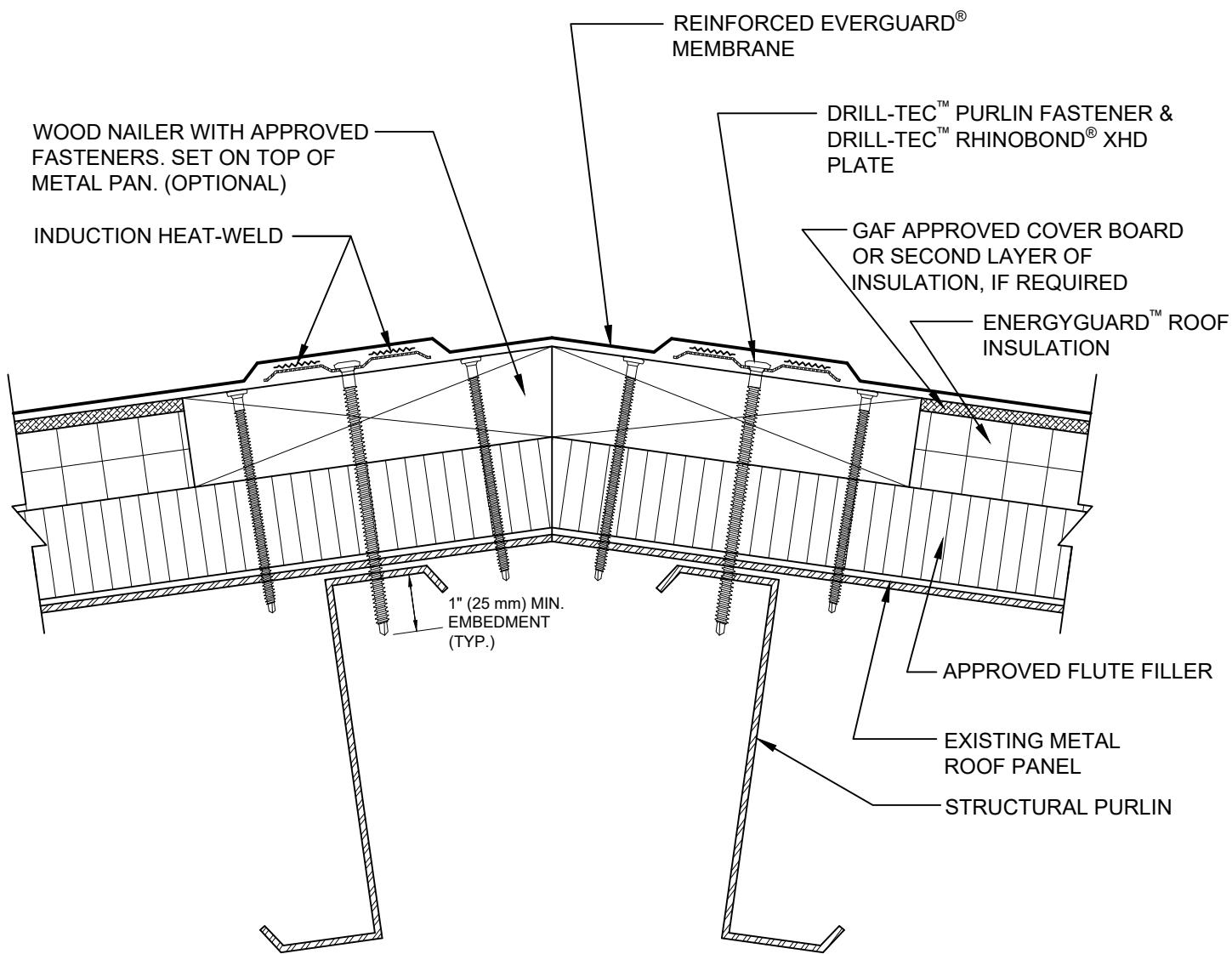
 THIS DETAIL APPLIES TO:
 MECHANICALLY ATTACHED SYSTEMS

 ISSUE / REVISION DATE
8/17/20

 SCALE
N.T.S.

LEGEND

| | |
|--|----------------|
| | FIELD ZONE |
| | PERIMETER ZONE |
| | CORNER ZONE |



NOTE:

1. REFER TO THE DRILL-TEC™ RHINOBOND® PURFLIN ATTACHED SYSTEMS TABLE FOR DETAILED INSTALLATION REQUIREMENTS.
2. REFER TO APPROPRIATE EVERGUARD® 100 SERIES LAP DETAIL.

GAF

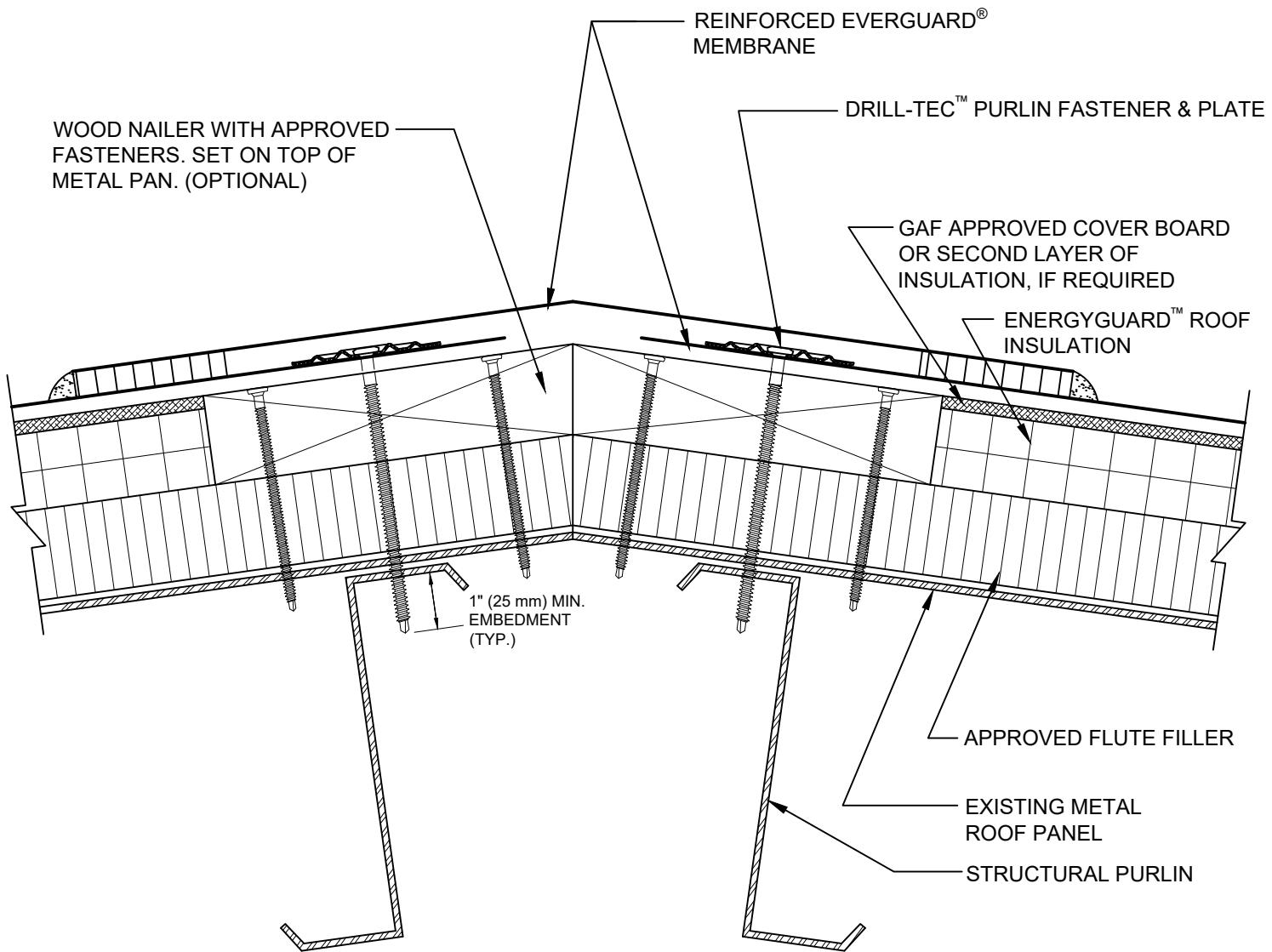
**RIDGE FLASHING
- DRILL-TEC™ RHINOBOND® & PURFLIN ATTACHMENT**

DRAWING #
110F

| | | |
|--------------------------|-----------------------|--------|
| THIS DETAIL APPLIES TO: | ISSUE / REVISION DATE | SCALE |
| INDUCTION WELDED SYSTEMS | 8/11/21 | N.T.S. |

LEGEND

~~~~~ HEAT-WELDED



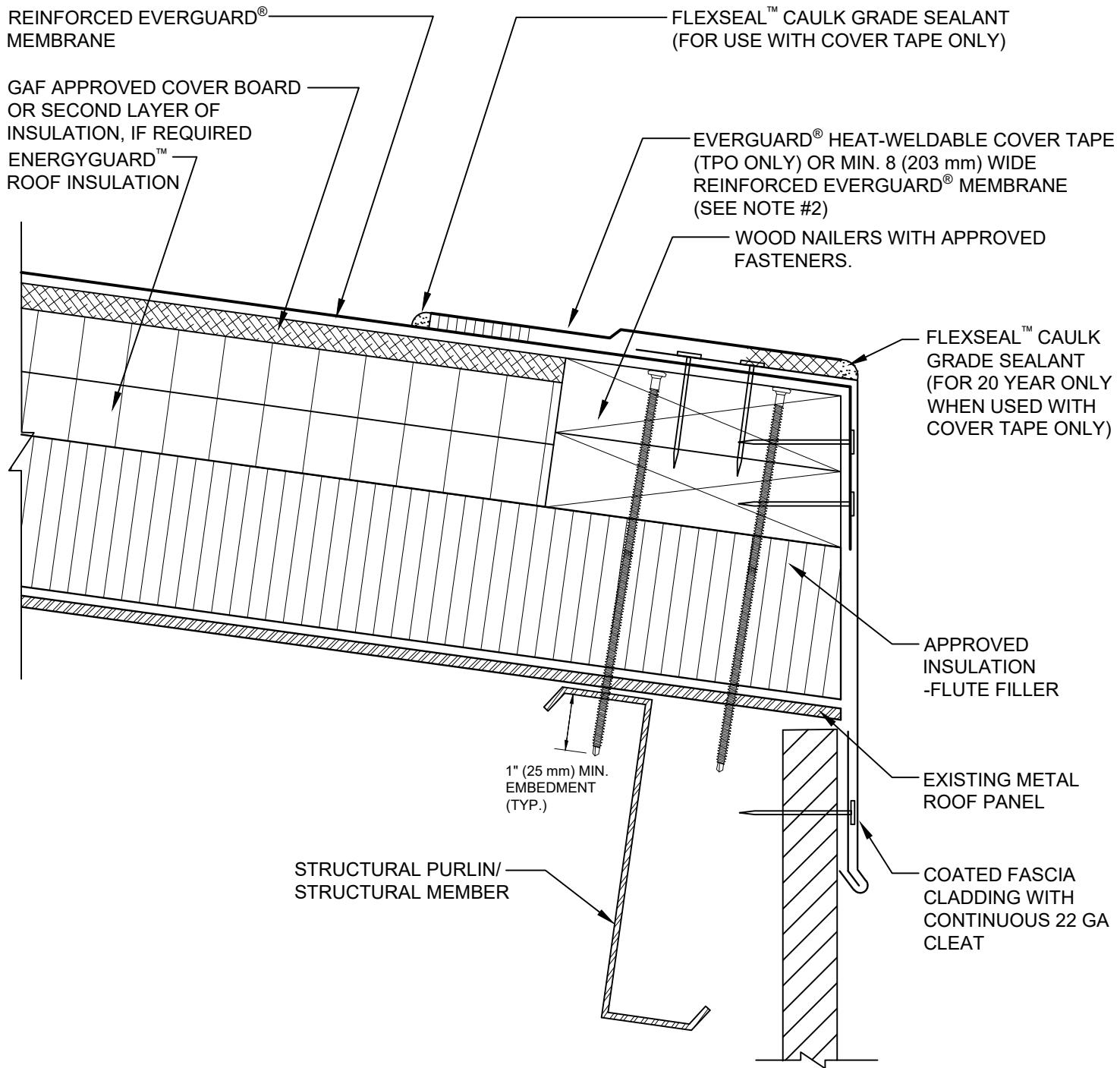
## NOTE:

1. REFER TO THE MECHANICALLY FASTENED PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. REFER TO APPROPRIATE EVERGUARD<sup>®</sup> 100 SERIES LAP DETAIL.

**GAF**
**RIDGE FLASHING  
- PURLIN ATTACHMENT**
DRAWING #  
**110G**THIS DETAIL APPLIES TO:  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
**8/11/21**SCALE  
N.T.S.

## LEGEND

HEAT-WELDED



## NOTE:

1. REFER TO THE MECHANICALLY PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. USE STRIPPING DETAIL APPROPRIATE TO THE MEMBRANE, METAL TYPE AND GUARANTEE PERIOD. REFER TO EVERGUARD® 200 SERIES DETAILS.
3. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.

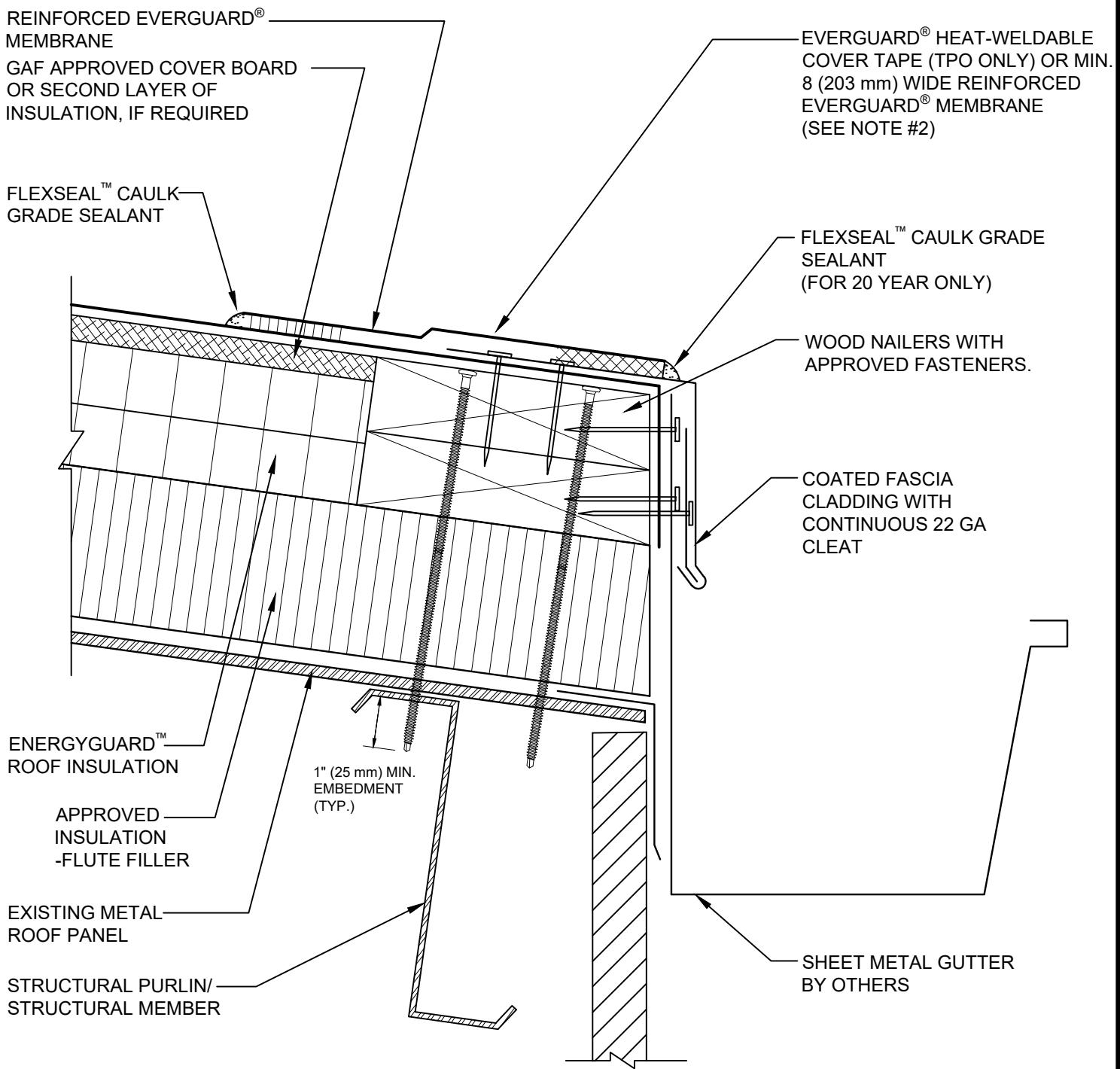
METAL ROOF EDGE DETAIL  
- PURLIN ATTACHEMNTDRAWING #  
202F

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## LEGEND

|  |                                        |
|--|----------------------------------------|
|  | HEAT-WELDED LAP                        |
|  | PEEL-N-STICK ADHESIVE<br>(SEE NOTE #3) |

ISSUE / REVISION DATE  
8/17/20SCALE  
N.T.S.THIS DETAIL APPLIES TO:  
RHINOBOND® SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS



**NOTE:**

1. REFER TO THE MECHANICALLY PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. USE STRIPPING DETAIL APPROPRIATE TO THE MEMBRANE, METAL TYPE AND GUARANTEE PERIOD. REFER TO EVERGUARD® 200 SERIES DETAILS.
3. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.

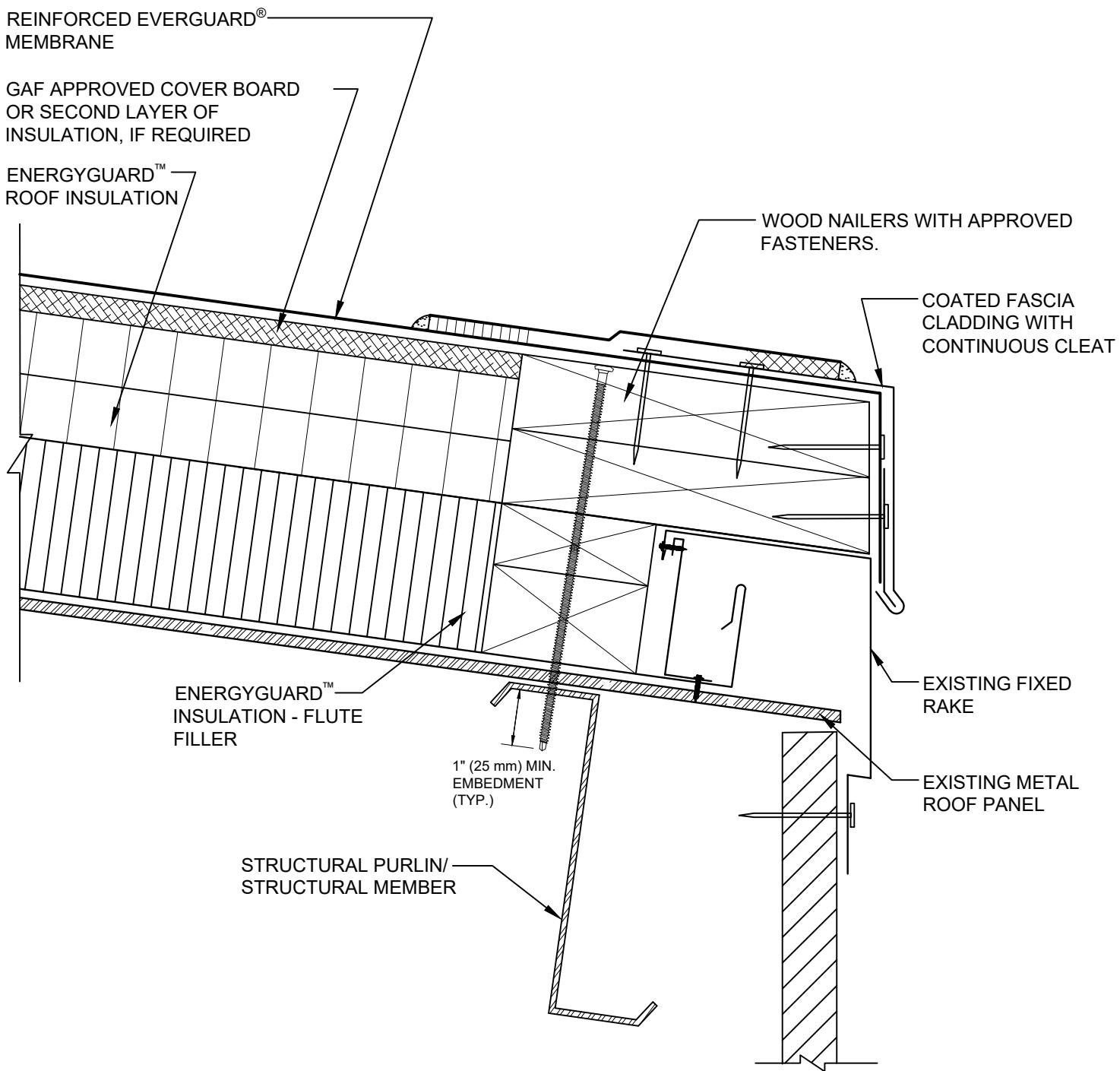


**METAL ROOF GUTTER DETAIL  
- PURLIN ATTACHEMNT**

DRAWING #  
**202G**

**LEGEND**

|  |                                     |
|--|-------------------------------------|
|  | HEAT-WELDED LAP                     |
|  | PEEL-N-STICK ADHESIVE (SEE NOTE #3) |



## NOTE:

1. REFER TO THE MECHANICALLY PURLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. USE STRIPPING DETAIL APPROPRIATE TO THE MEMBRANE, METAL TYPE AND GUARANTEE PERIOD. REFER TO EVERGUARD® 200 SERIES DETAILS.
3. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.


**METAL ROOF EDGE DETAIL  
- FIXED RAKE EDGE**

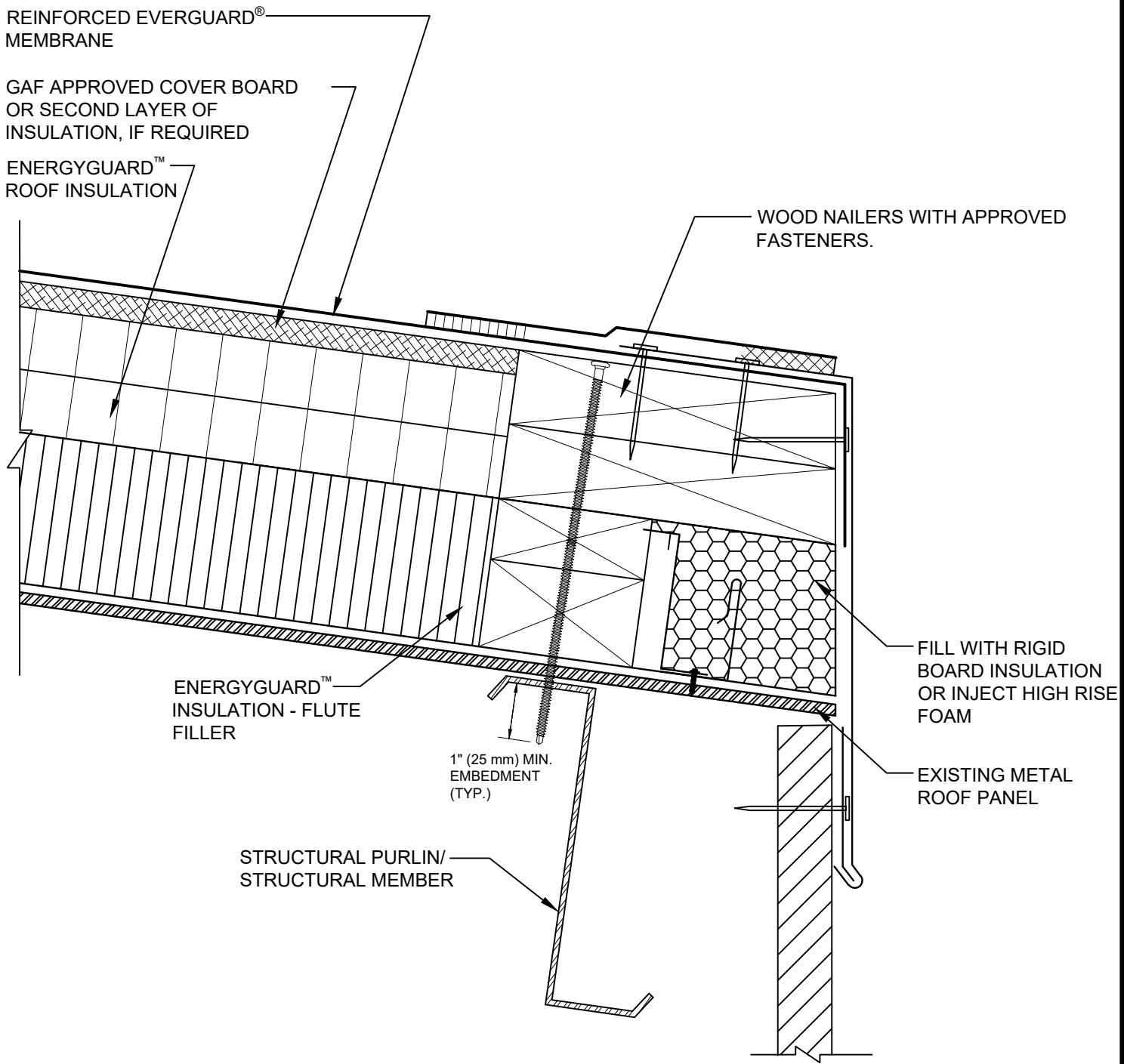
 DRAWING #  
**202H**

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## LEGEND

|  |                                        |
|--|----------------------------------------|
|  | HEAT-WELDED LAP                        |
|  | PEEL-N-STICK ADHESIVE<br>(SEE NOTE #3) |

 THIS DETAIL APPLIES TO: **RHINOBOND® SYSTEMS  
MECHANICALLY ATTACHED SYSTEMS** ISSUE / REVISION DATE: **8/17/20** SCALE: **N.T.S.**



## NOTE:

1. REFER TO THE MECHANICALLY PURFLIN ATTACHMENT TABLE FOR ADDITIONAL INFORMATION.
2. USE STRIPPING DETAIL APPROPRIATE TO THE MEMBRANE, METAL TYPE AND GUARANTEE PERIOD. REFER TO EVERGUARD® 200 SERIES DETAILS.
3. REMOVE EXISTING FLOATING RAKE AND CLIP.
4. CLEAN METAL AND MEMBRANE WITH EVERGUARD® TPO SEAM CLEANER AND ALLOW TO DRY. ONCE DRY, PRIME METAL AND MEMBRANE WITH EVERGUARD® TPO PRIMER BEFORE INSTALLING EVERGUARD® TPO COVER TAPE.

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METAL ROOF EDGE DETAIL  
- FLOATING RAKE EDGEDRAWING #  
2021

## LEGEND

|  |                                        |
|--|----------------------------------------|
|  | HEAT-WELDED LAP                        |
|  | PEEL-N-STICK ADHESIVE<br>(SEE NOTE #3) |

THIS DETAIL APPLIES TO:  
RHINOBOND® SYSTEMS  
MECHANICALLY ATTACHED SYSTEMSISSUE / REVISION DATE  
8/17/20SCALE  
N.T.S.



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