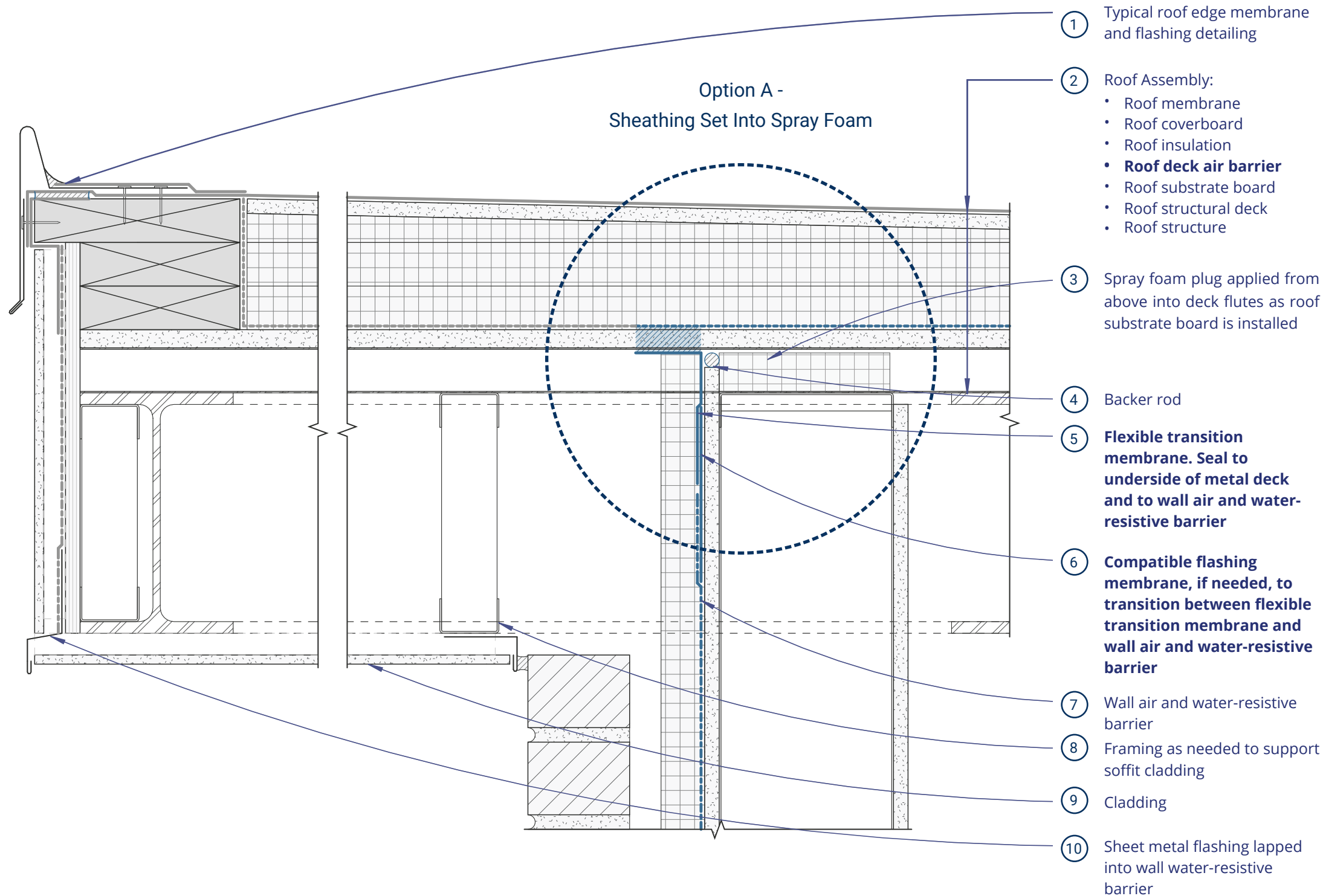


air barrier  
**abaa**  
 association of  
 america

# Roof-to-Wall DETAILS

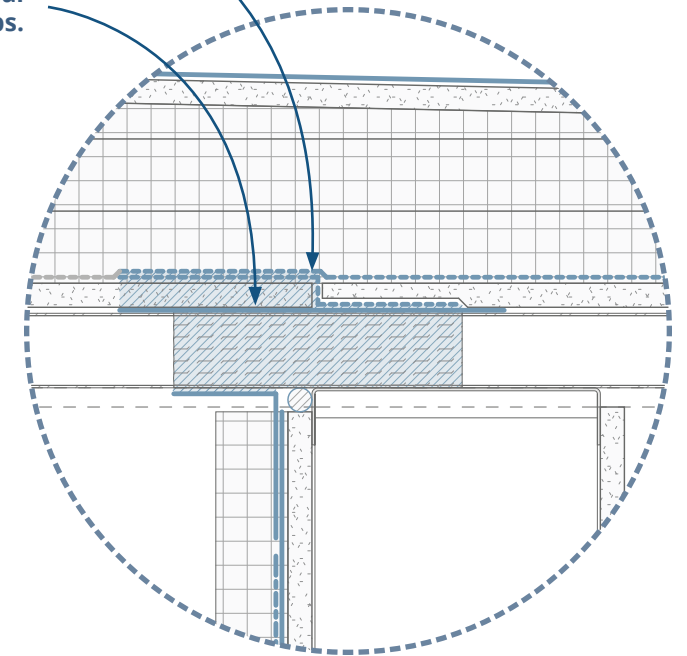
# Detail CL1

## Roof Overhang - With Air Barrier Transition Through Metal Deck (2D)



Strip of roof deck air barrier membrane, sealed from top of substrate board to sheet metal strip.

Strip of sheet metal. Seal all laps.

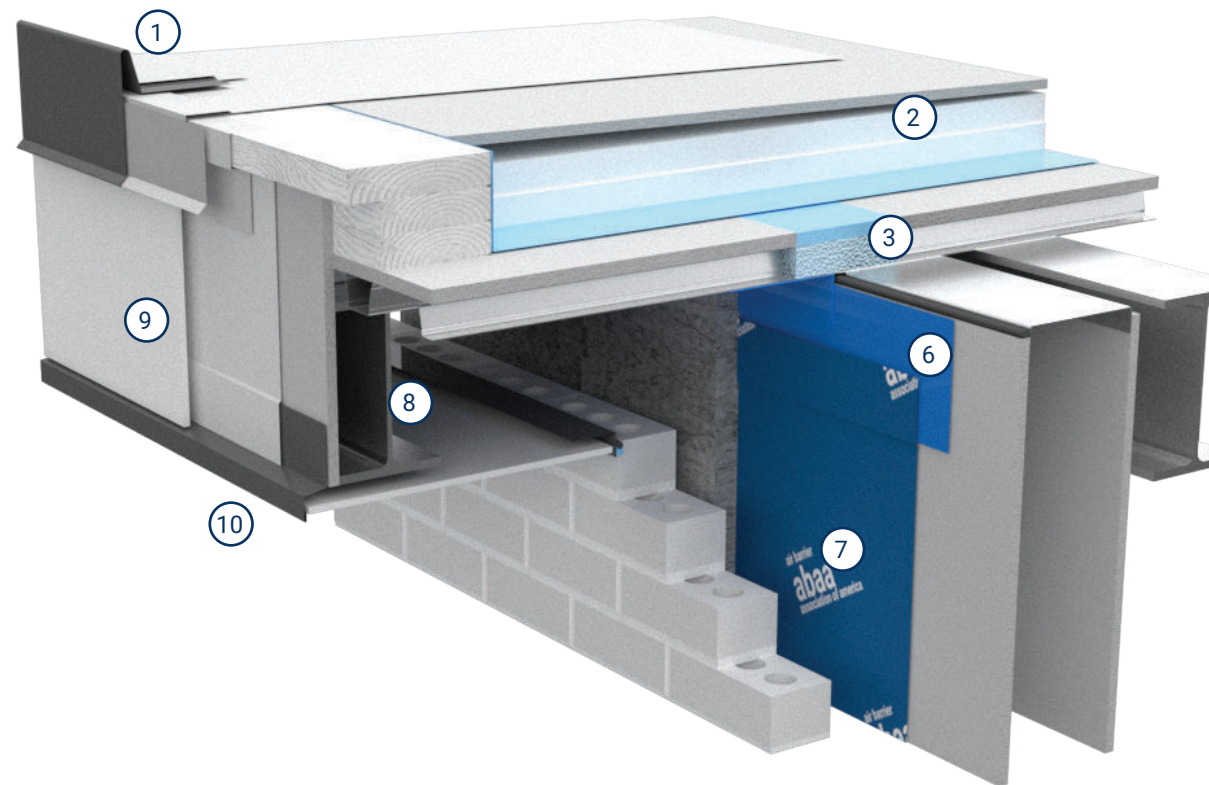


Option B - Membrane Transition at Split Sheathing

# Detail CL1

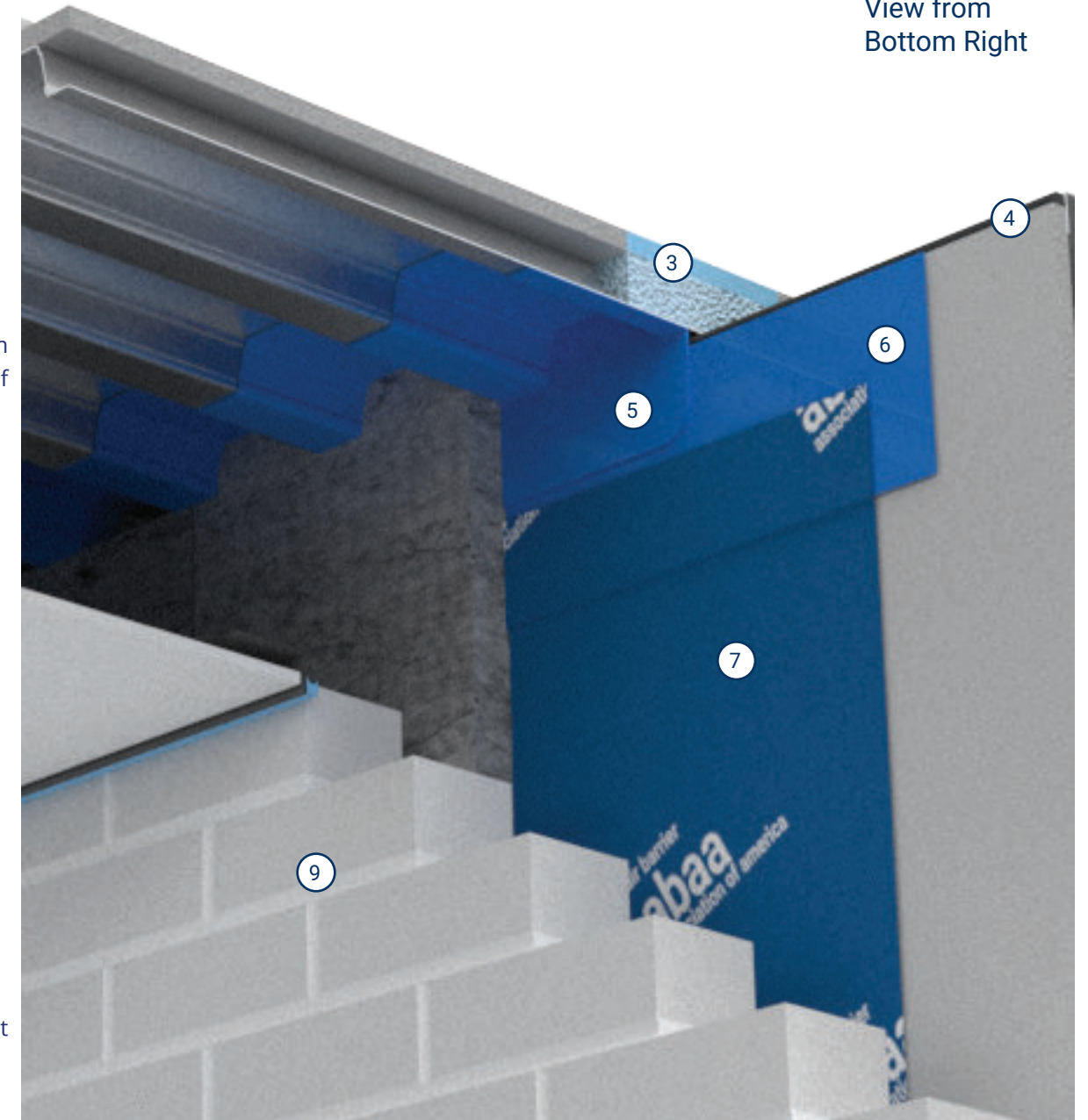
## Roof Overhang - With Air Barrier Transition Through Metal Deck (3D)

View from Top Right



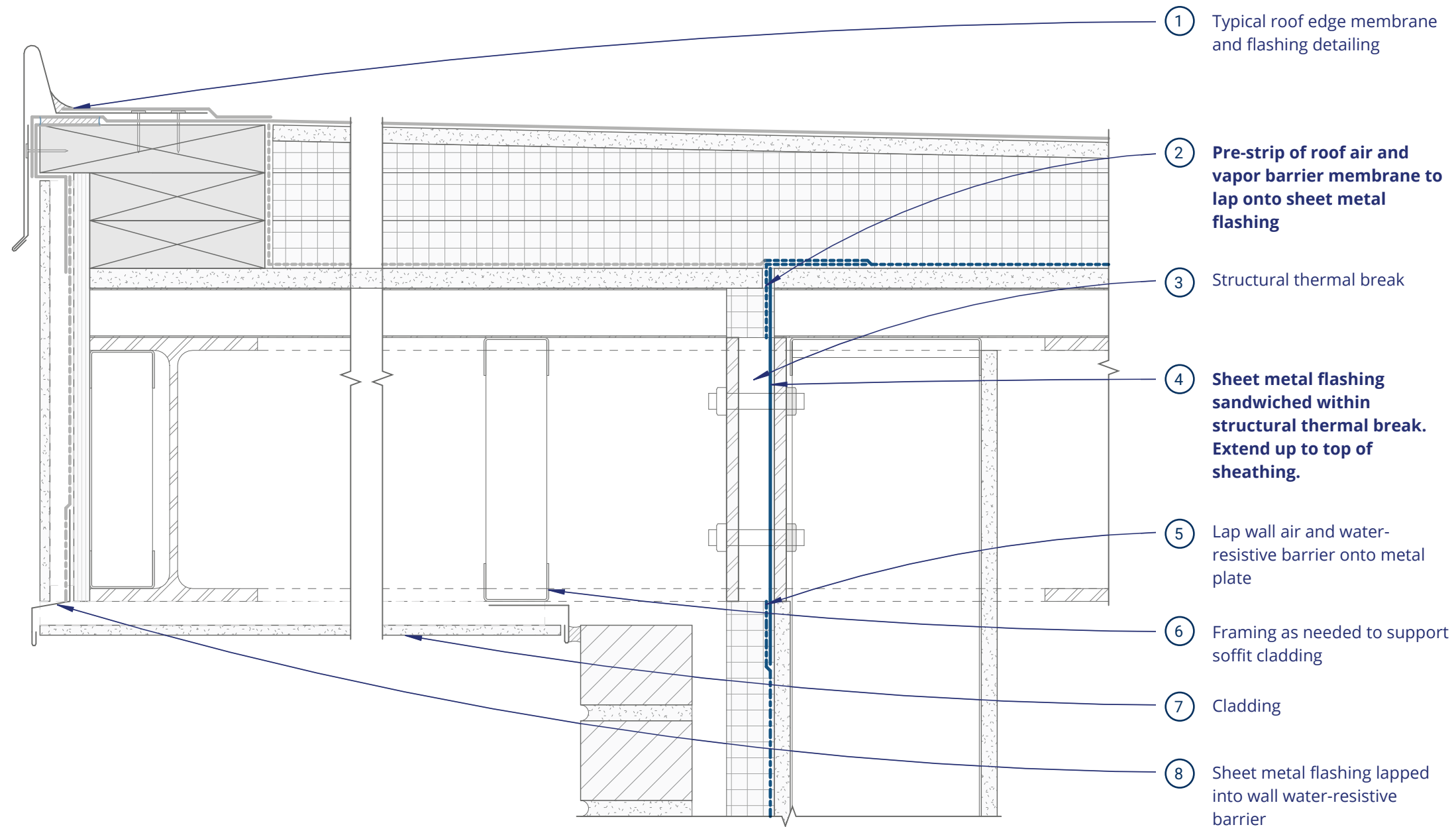
- ① Typical roof edge membrane and flashing detailing
- ② Roof Assembly:
  - Roof membrane
  - Roof coverboard
  - Roof insulation
  - **Roof deck air barrier**
  - Roof substrate board
  - Roof structural deck
  - Roof structure
- ③ Spray foam plug applied from above into deck flutes as roof substrate board is installed
- ④ Backer rod
- ⑤ **Flexible transition membrane. Seal to underside of metal deck and to wall air and water-resistive barrier**
- ⑥ **Compatible flashing membrane, if needed, to transition between flexible transition membrane and wall air and water-resistive barrier**
- ⑦ Wall air and water-resistive barrier
- ⑧ Framing as needed to support soffit cladding
- ⑨ Cladding
- ⑩ Sheet metal flashing lapped into wall water-resistive barrier

View from Bottom Right



# Detail CL2

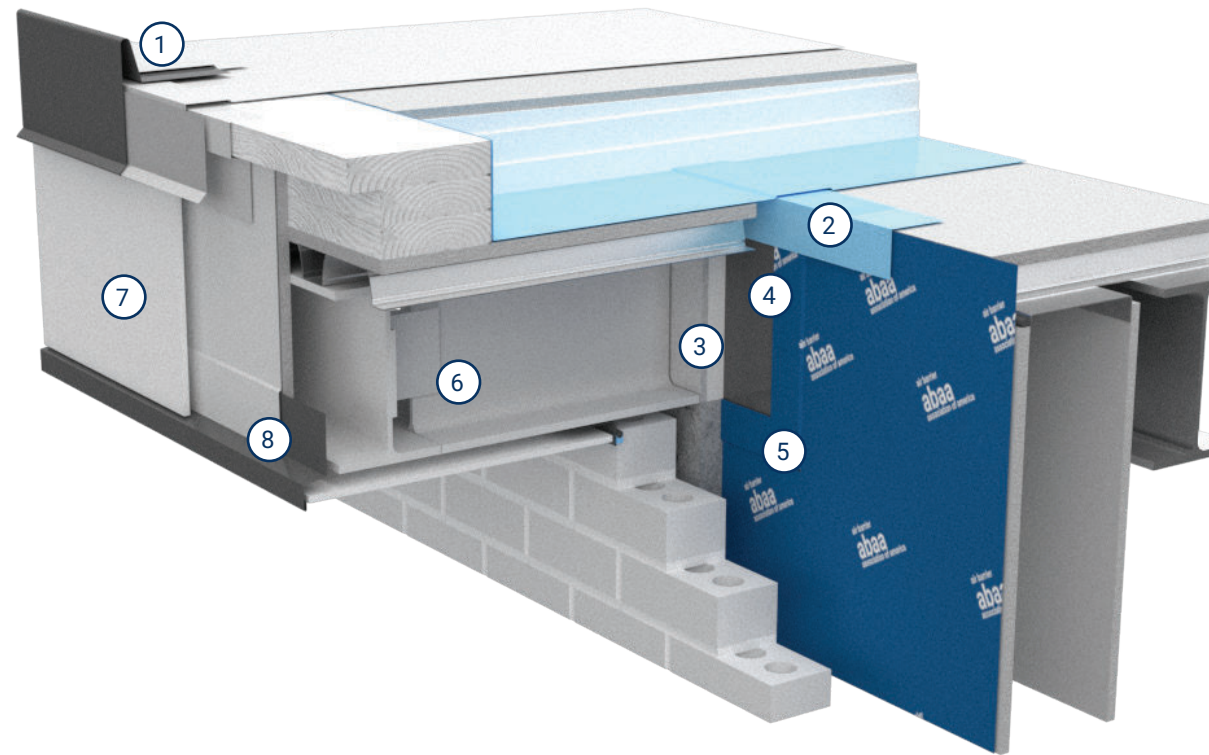
## Roof Overhang - With Structural Thermal Break (2D)



# Detail CL2

## Roof Overhang - With Structural Thermal Break (3D)

View from Top Right



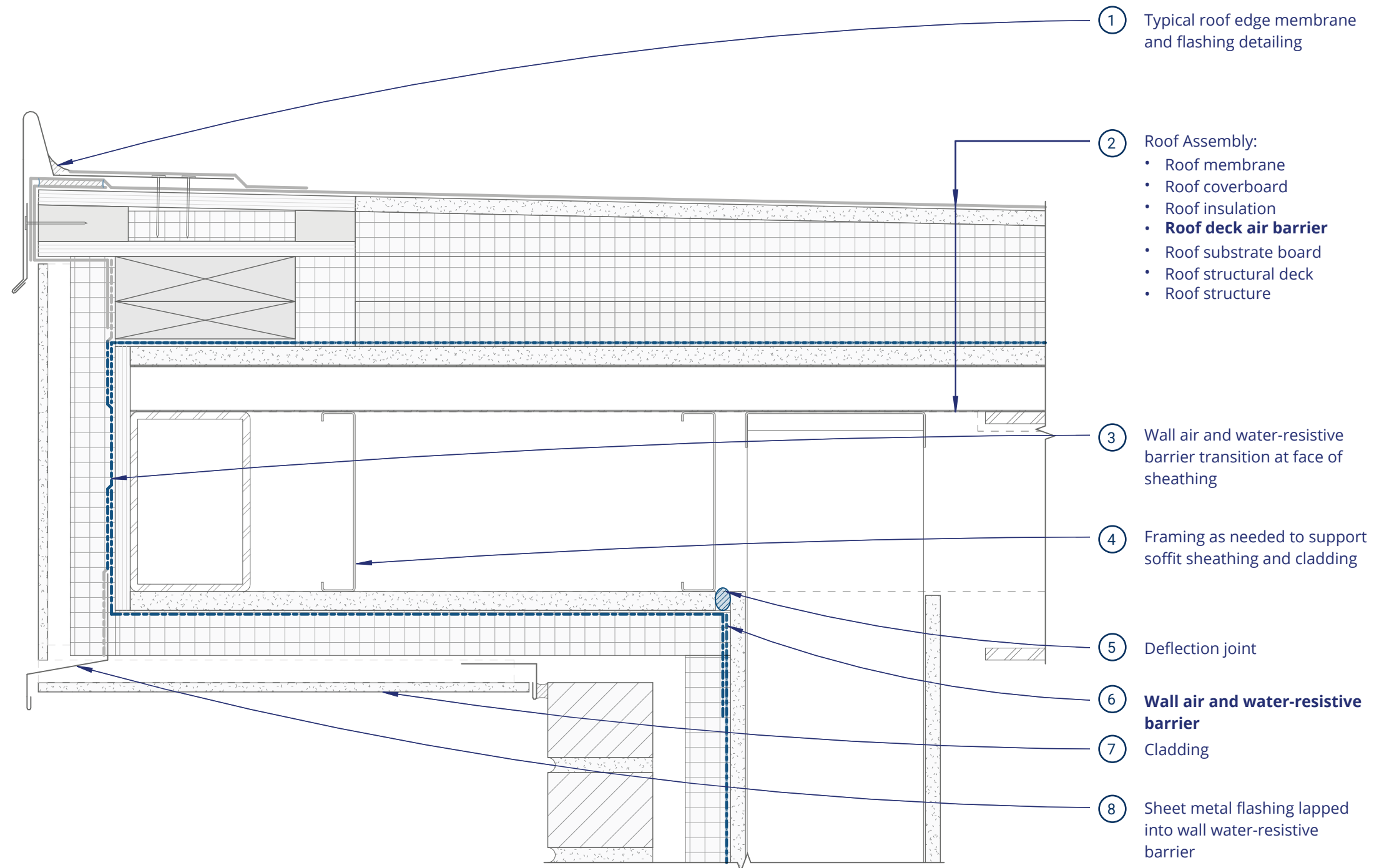
- ① Typical roof edge membrane and flashing detailing
- ② Pre-strip of roof air and vapor barrier membrane to lap onto sheet metal flashing
- ③ Structural thermal break
- ④ Sheet metal flashing sandwiched within structural thermal break. Extend up to top of sheathing.
- ⑤ Lap wall air and water-resistant barrier onto metal plate
- ⑥ Framing as needed to support soffit cladding
- ⑦ Cladding
- ⑧ Sheet metal flashing lapped into wall water-resistant barrier

View from Bottom Right



# Detail CL3

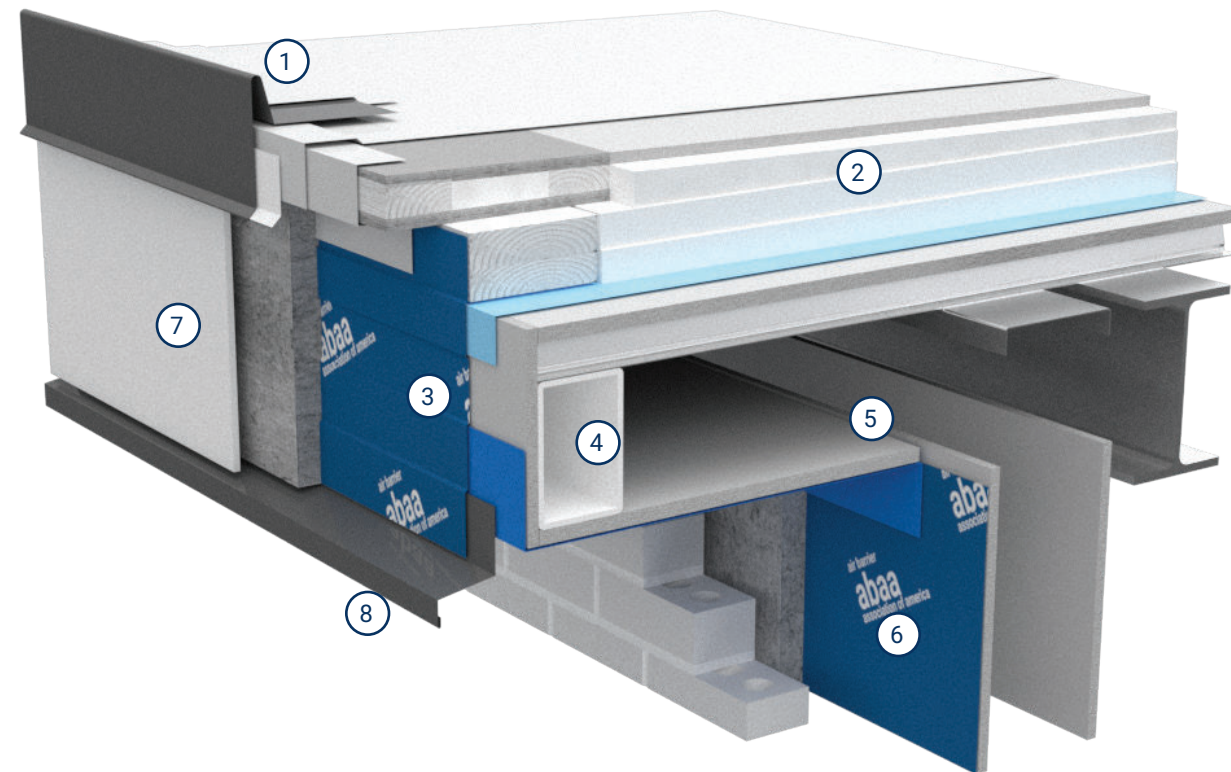
## Roof Overhang - With Air Barrier Wrapped Overhang (2D)



# Detail CL3

## Roof Overhang - With Air Barrier Wrapped Overhang (3D)

View from Top Right



① Typical roof edge membrane and flashing detailing

② Roof Assembly:

- Roof membrane
- Roof coverboard
- Roof insulation
- **Roof deck air barrier**
- Roof substrate board
- Roof structural deck
- Roof structure

③ Wall air and water-resistive barrier transition at face of sheathing

④ Framing as needed to support soffit sheathing and cladding

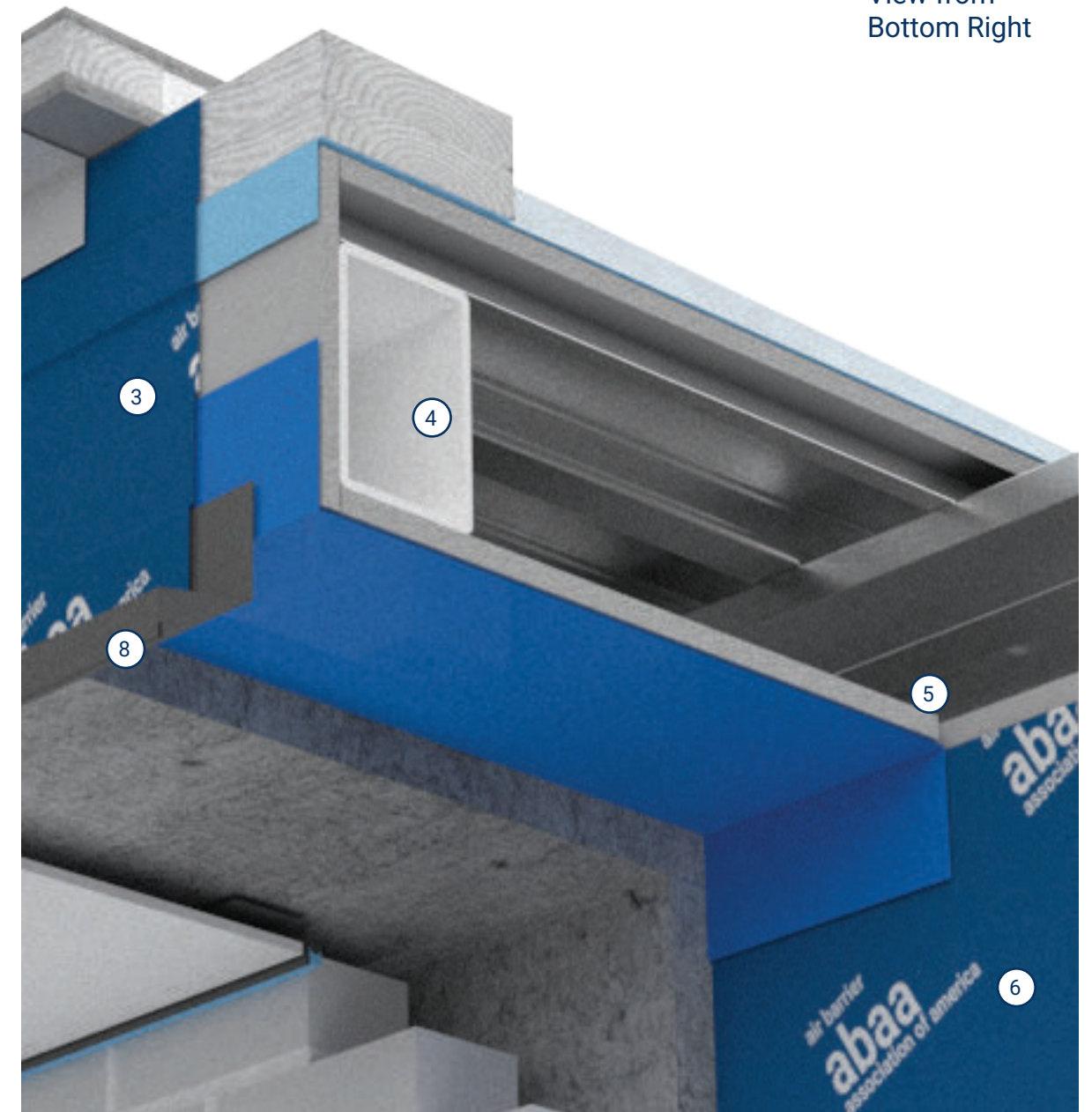
⑤ Deflection joint

⑥ **Wall air and water-resistive barrier**

⑦ Cladding

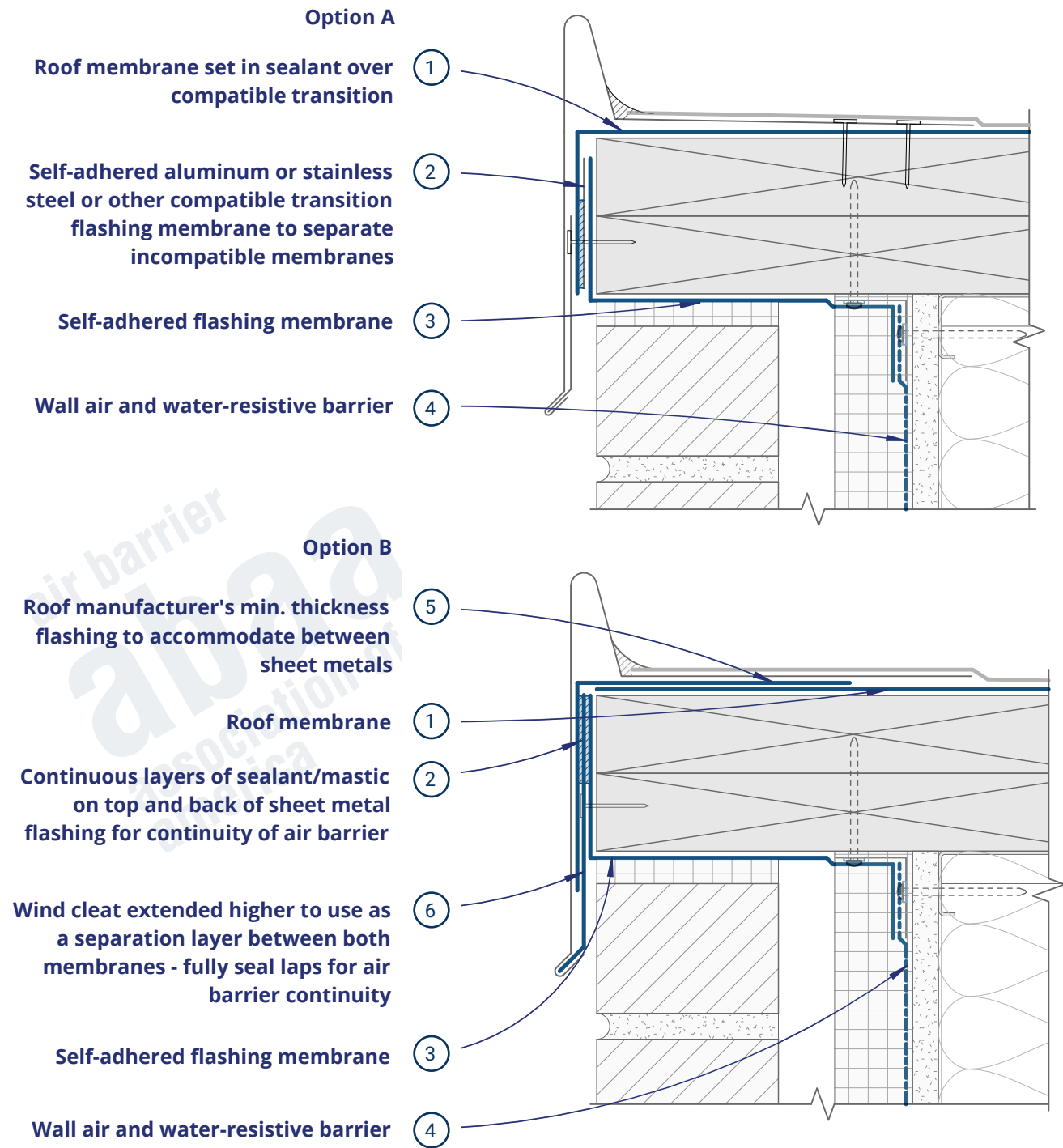
⑧ Sheet metal flashing lapped into wall water-resistive barrier

View from Bottom Right



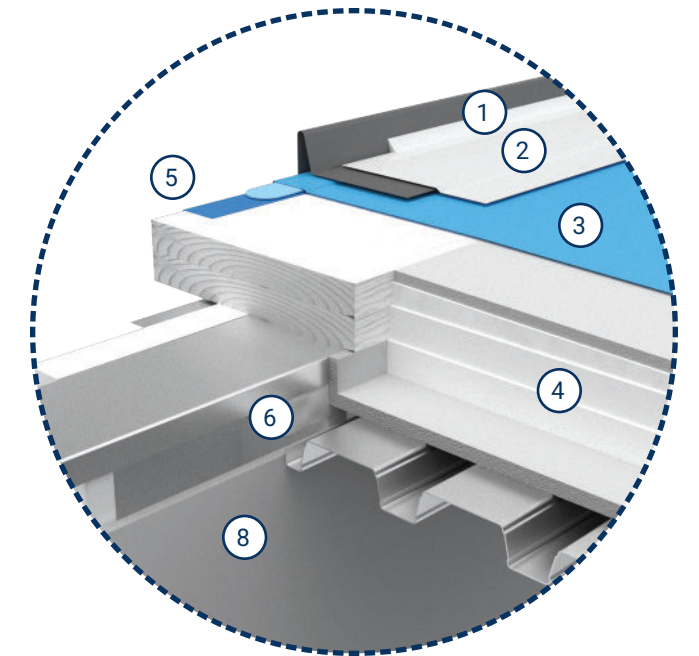
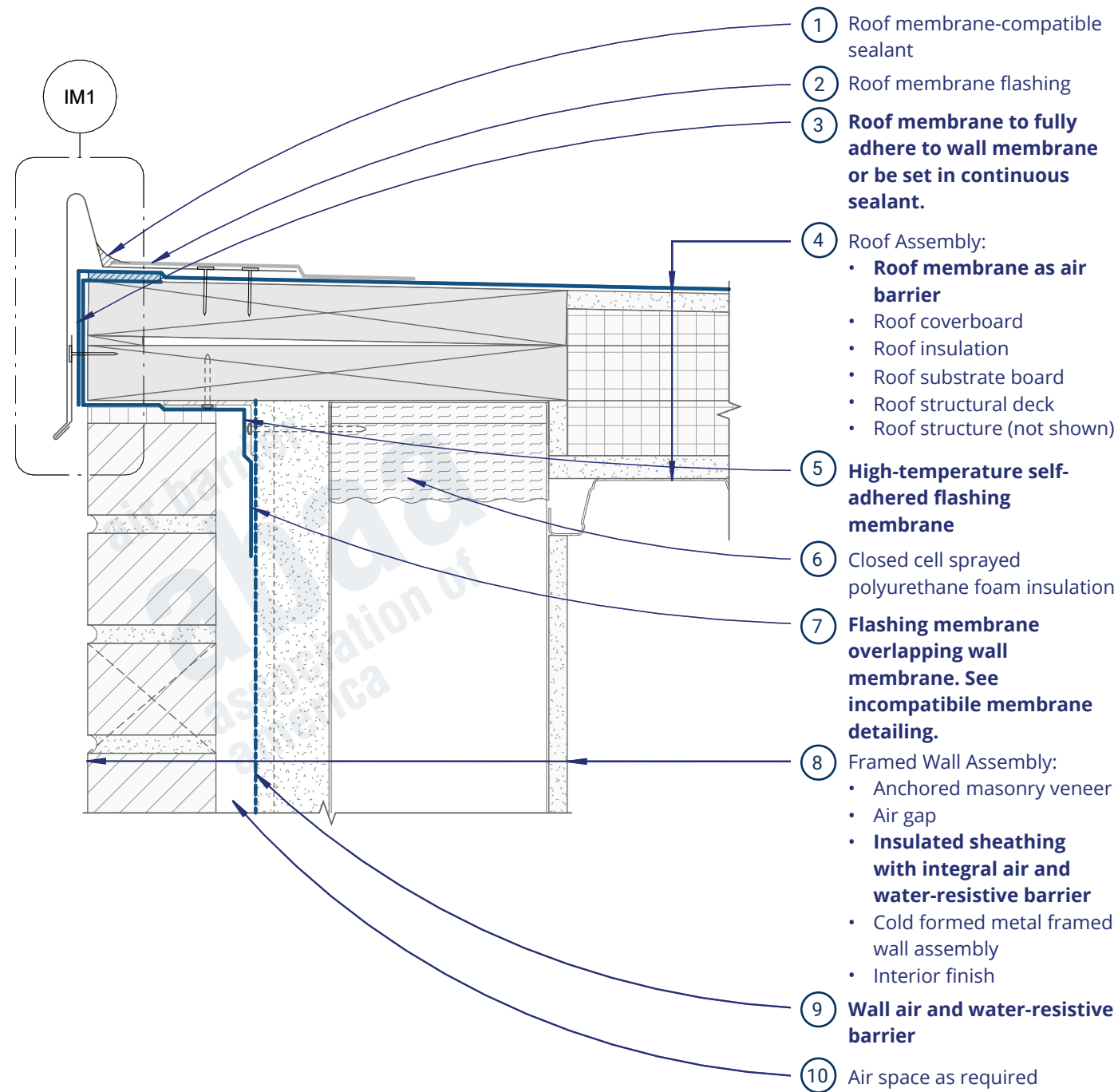
# Detail IM1

## Solutions for Incompatible Roof and Wall Membranes (2D)

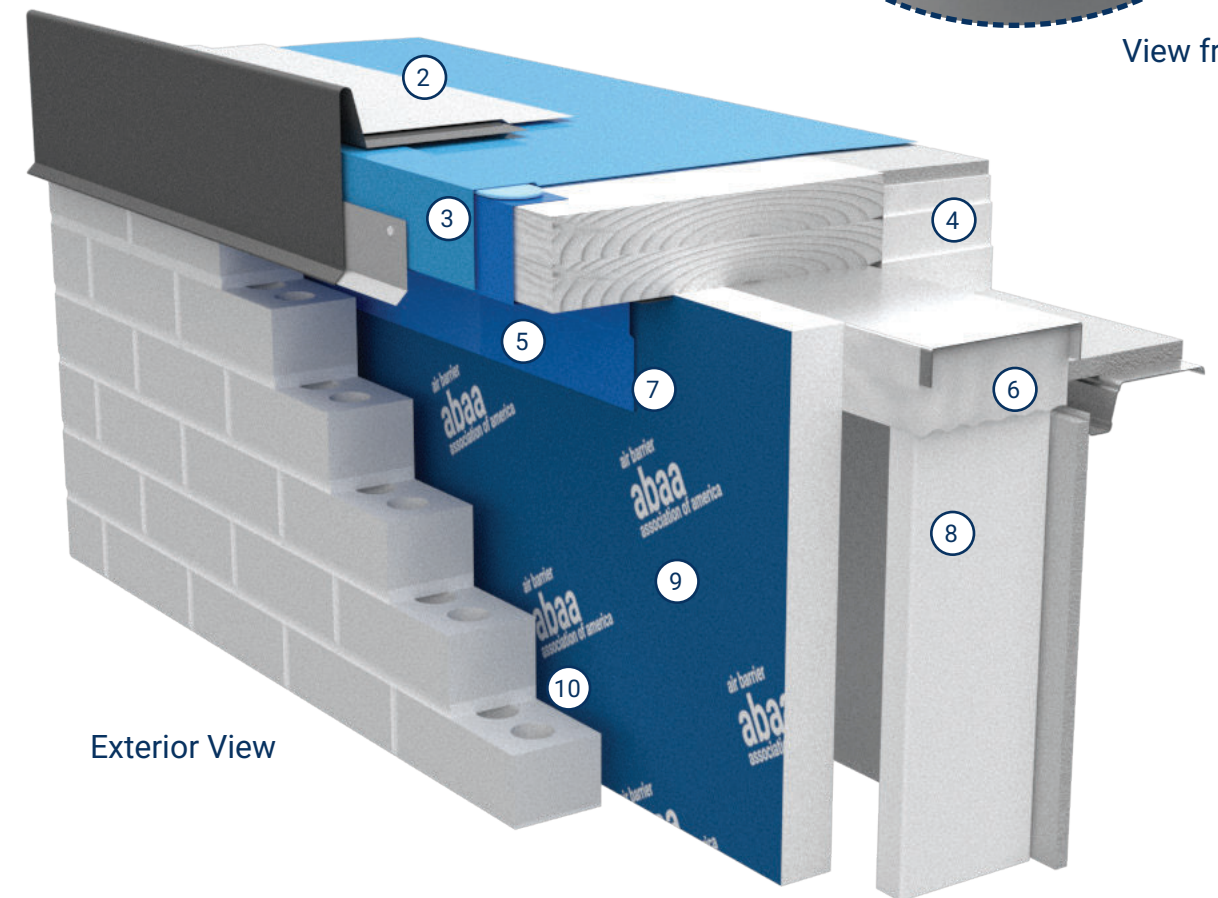


# Detail IRS1

## Insulated Sheathing Rainscreen Wall - Roof Edge Without Roof Deck Air Barrier (2D)



View from Roof

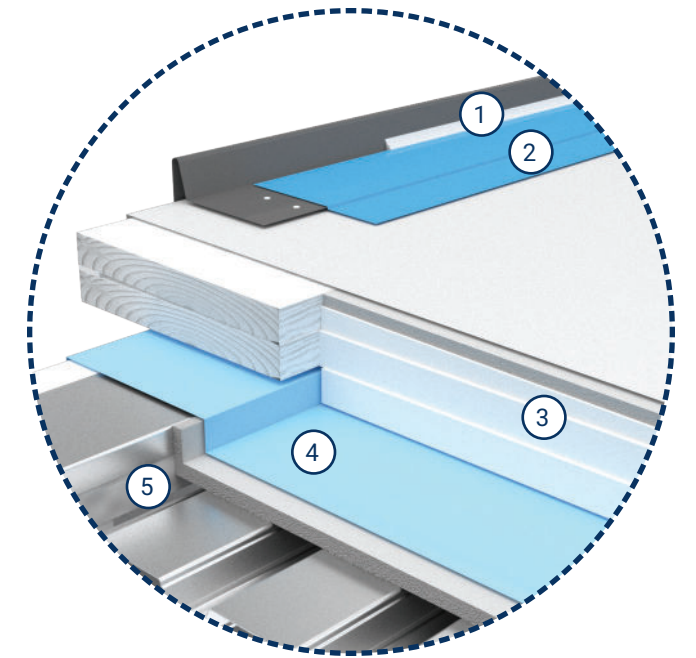
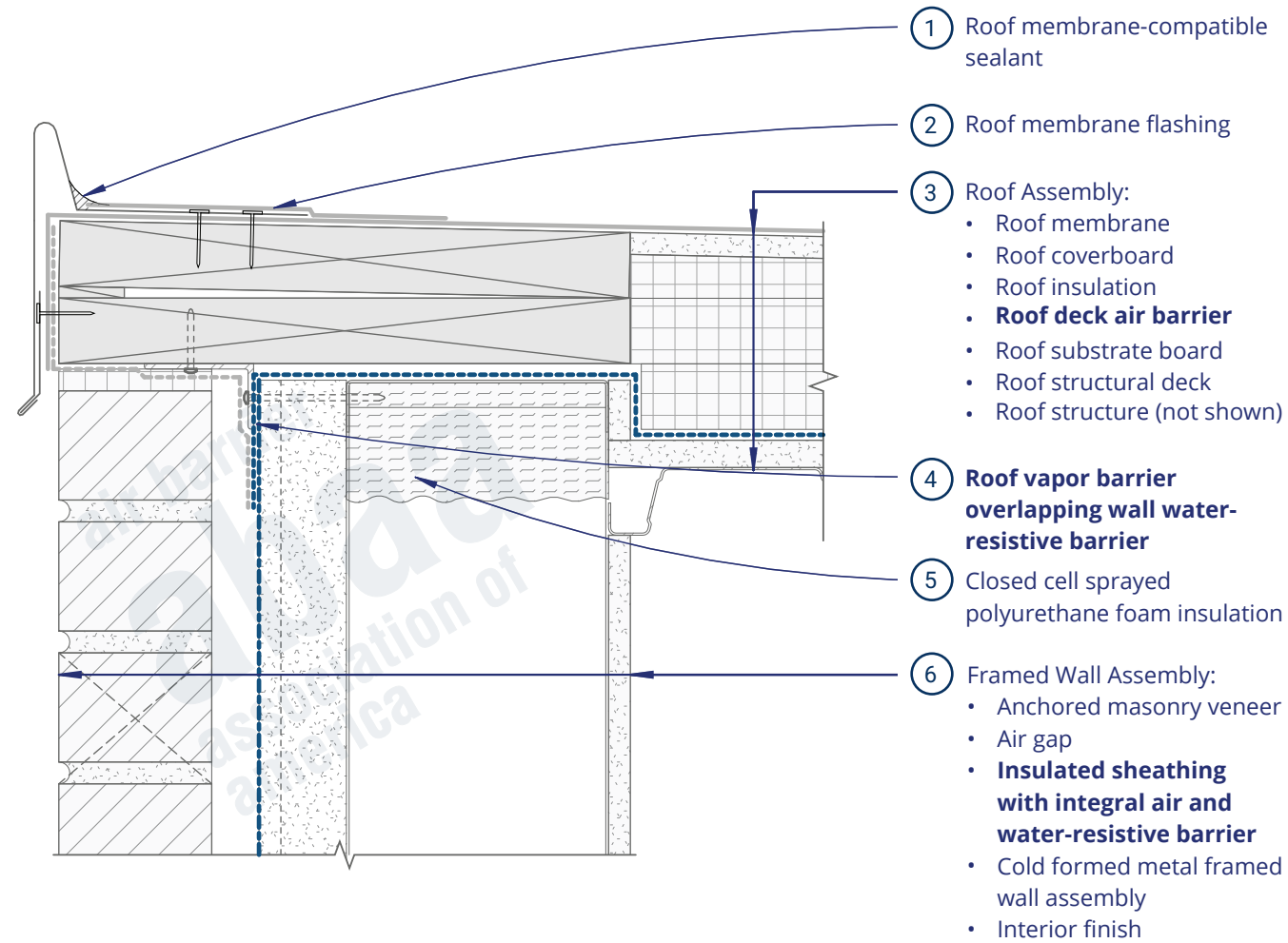


Exterior View

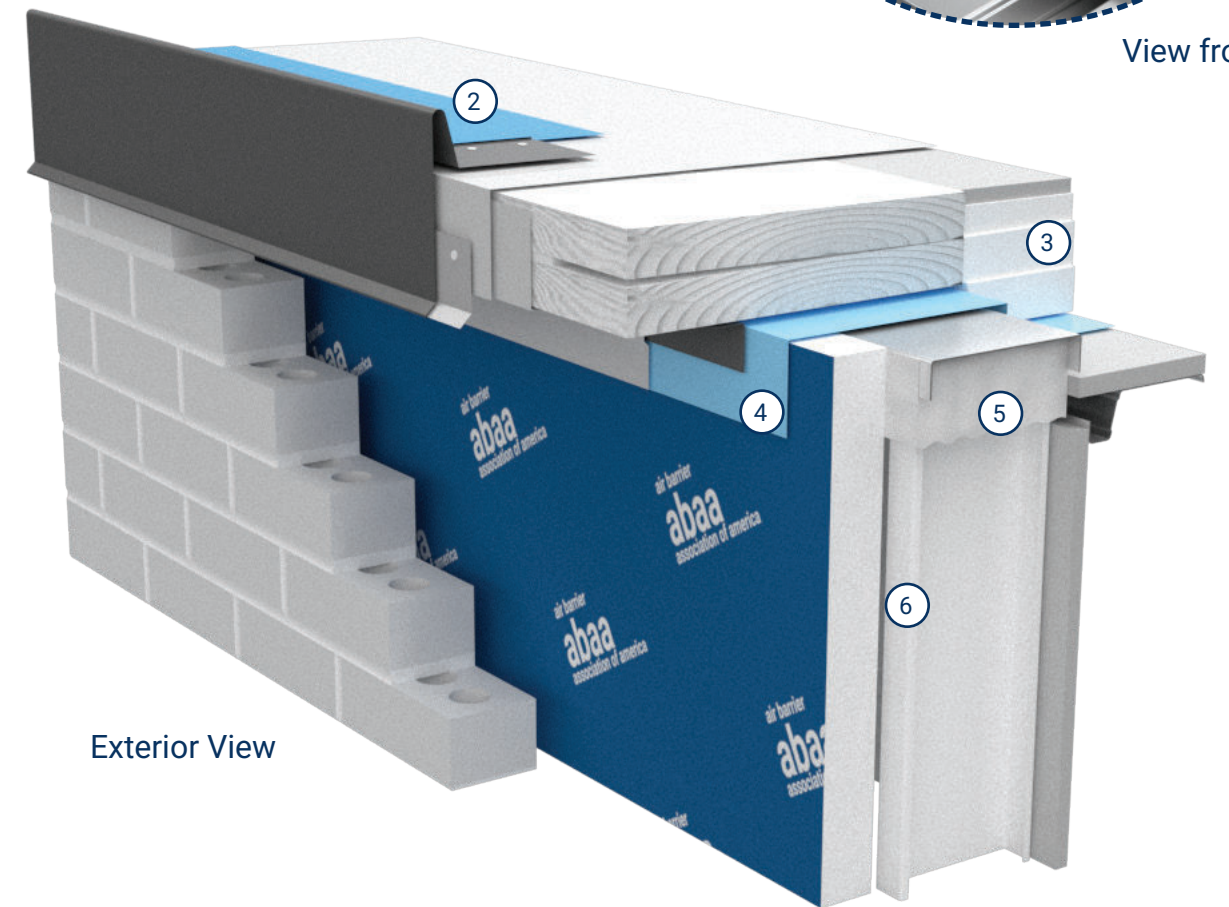
## Insulated Sheathing Rainscreen Wall - Roof Edge Without Roof Deck Air Barrier (3D)

# Detail IRS2

## Insulated Sheathing Rainscreen Wall - Roof With Roof Deck Air Barrier (2D)



View from Roof

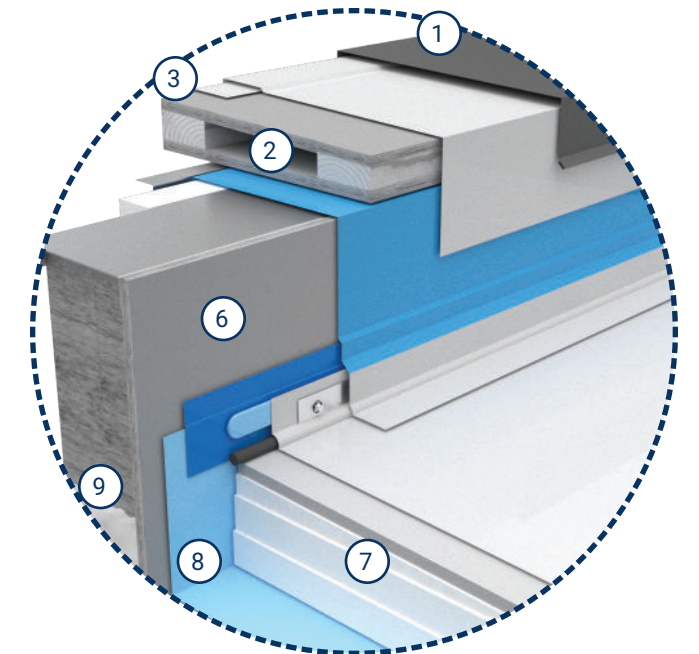
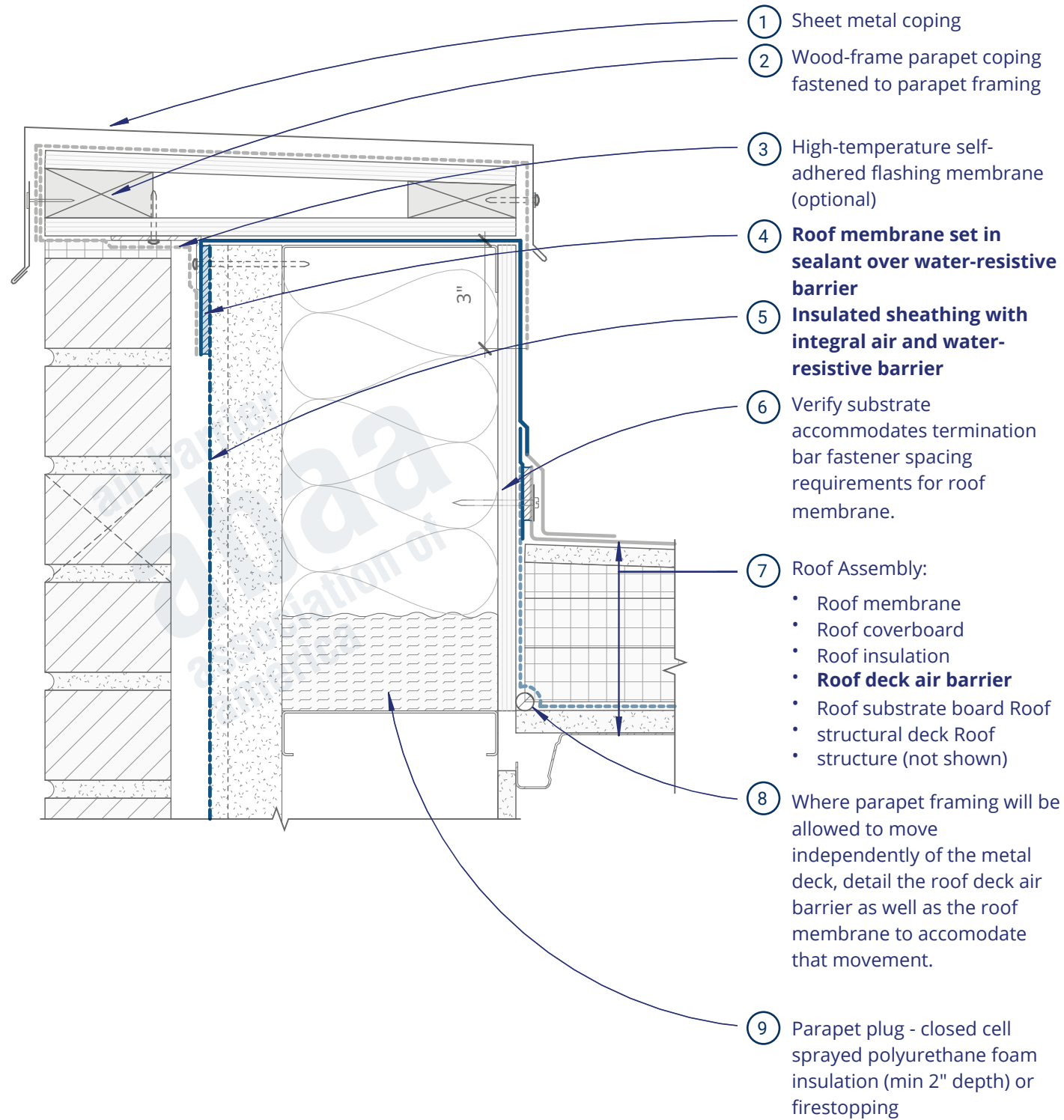


Exterior View

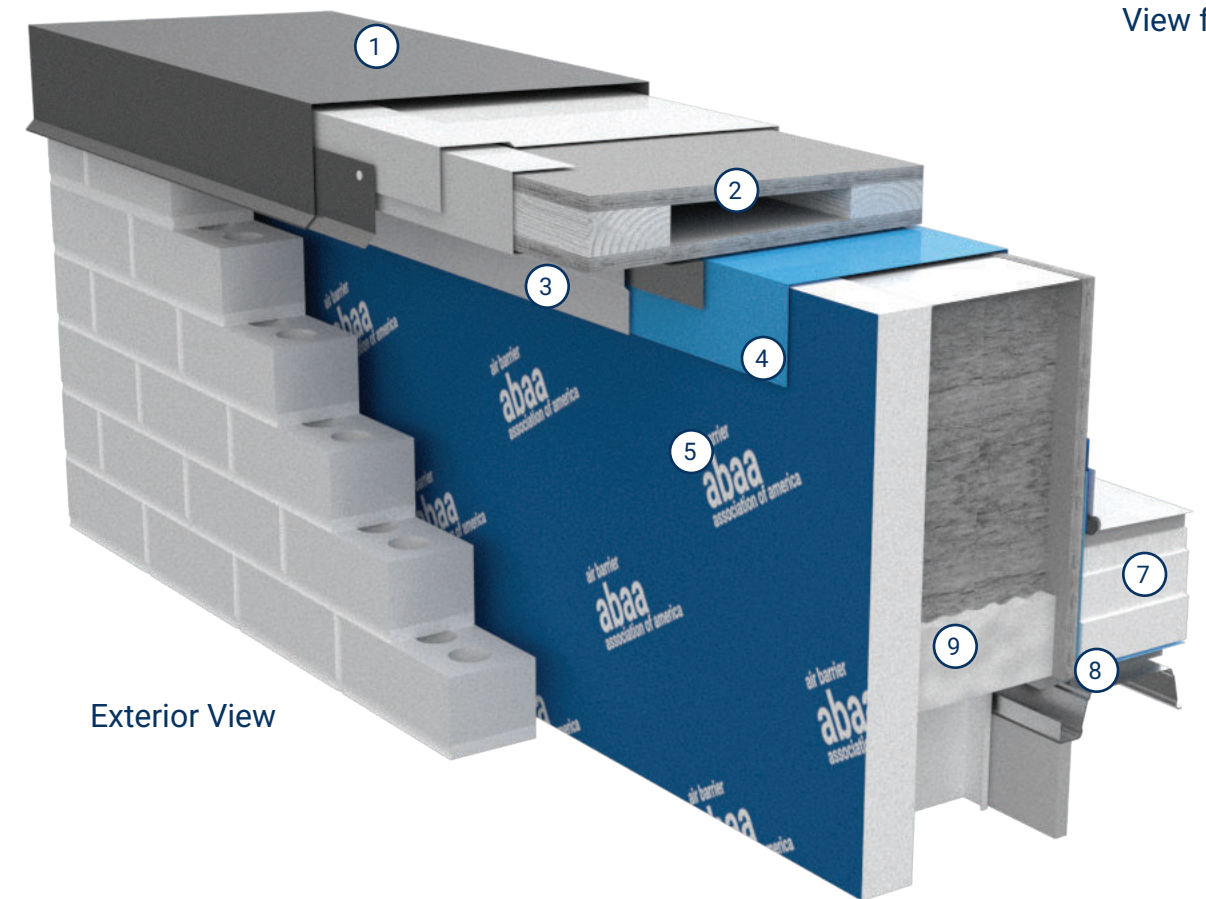
## Insulated Sheathing Rainscreen Wall - Roof With Roof Deck Air Barrier (3D)

# Detail IRS3

## Insulated Sheathing Rainscreen Wall - Parapet With Foam Insulation Base Plug at Deck (2D)



View from Roof

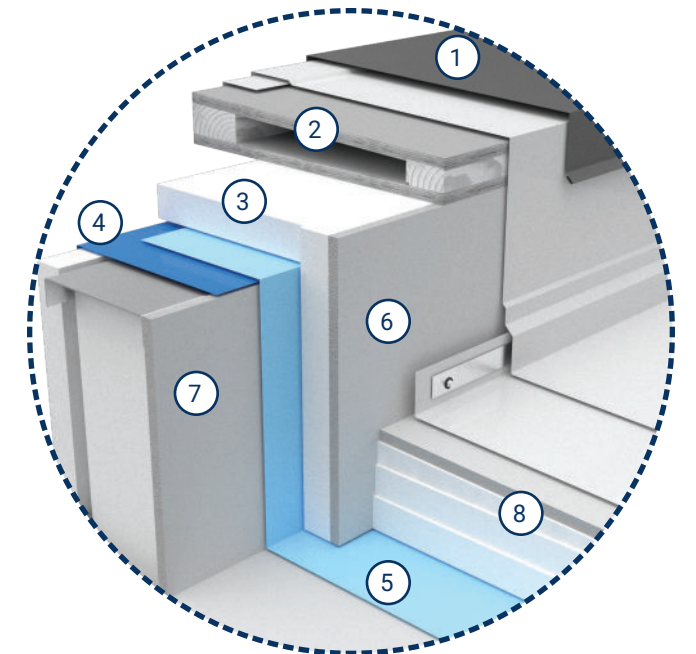
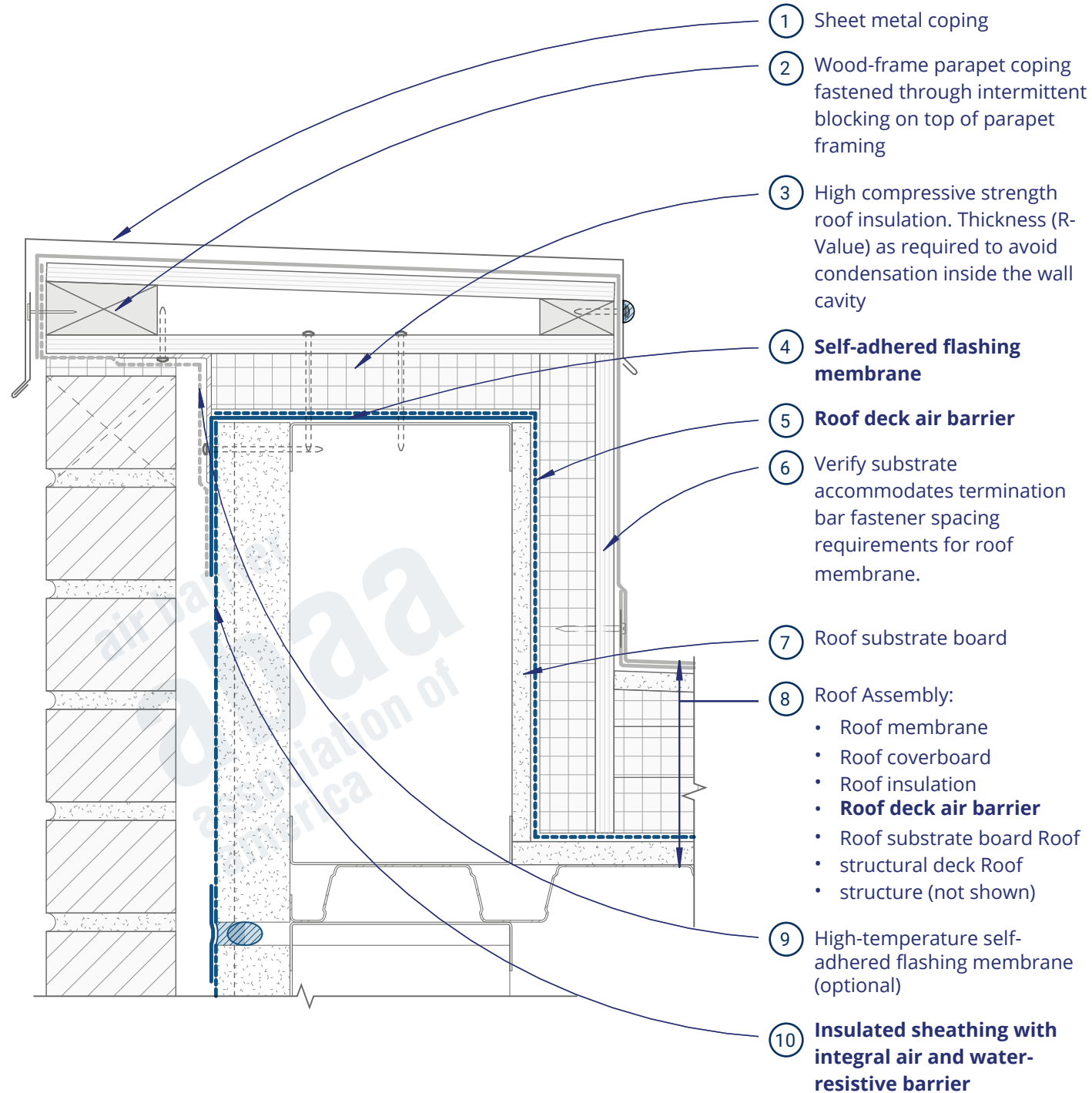


Exterior View

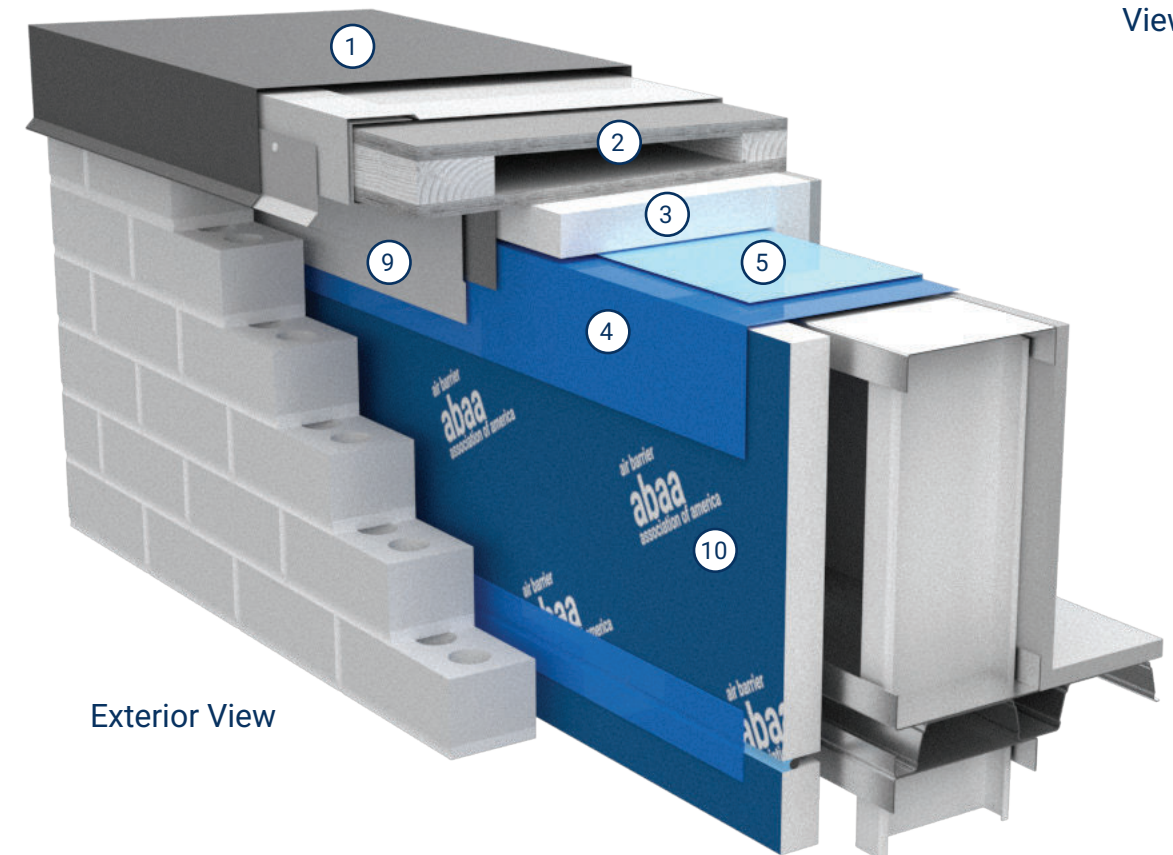
## Insulated Sheathing Rainscreen Wall - Parapet With Foam Insulation Base Plug at Deck (3D)

# Detail IRS4

## Insulated Sheathing Rainscreen Wall - Parapet With Continuous Rigid Board Exterior Insulation (2D)



View from Roof

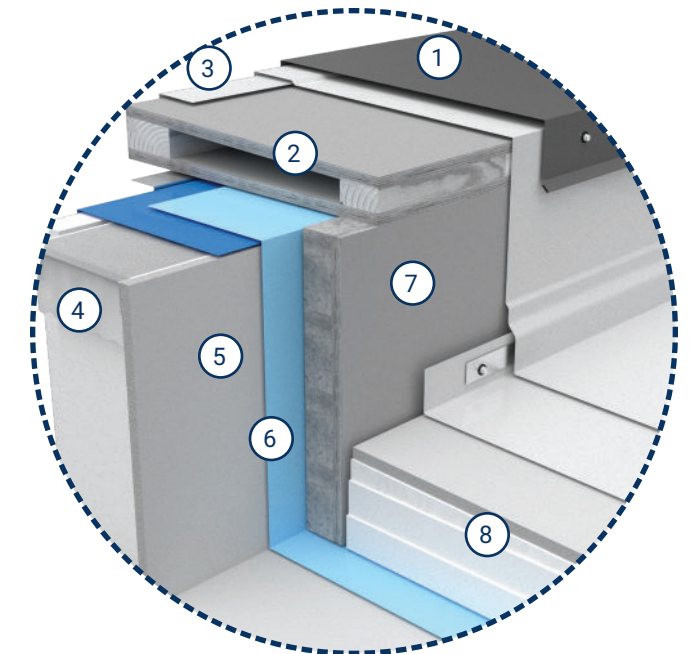
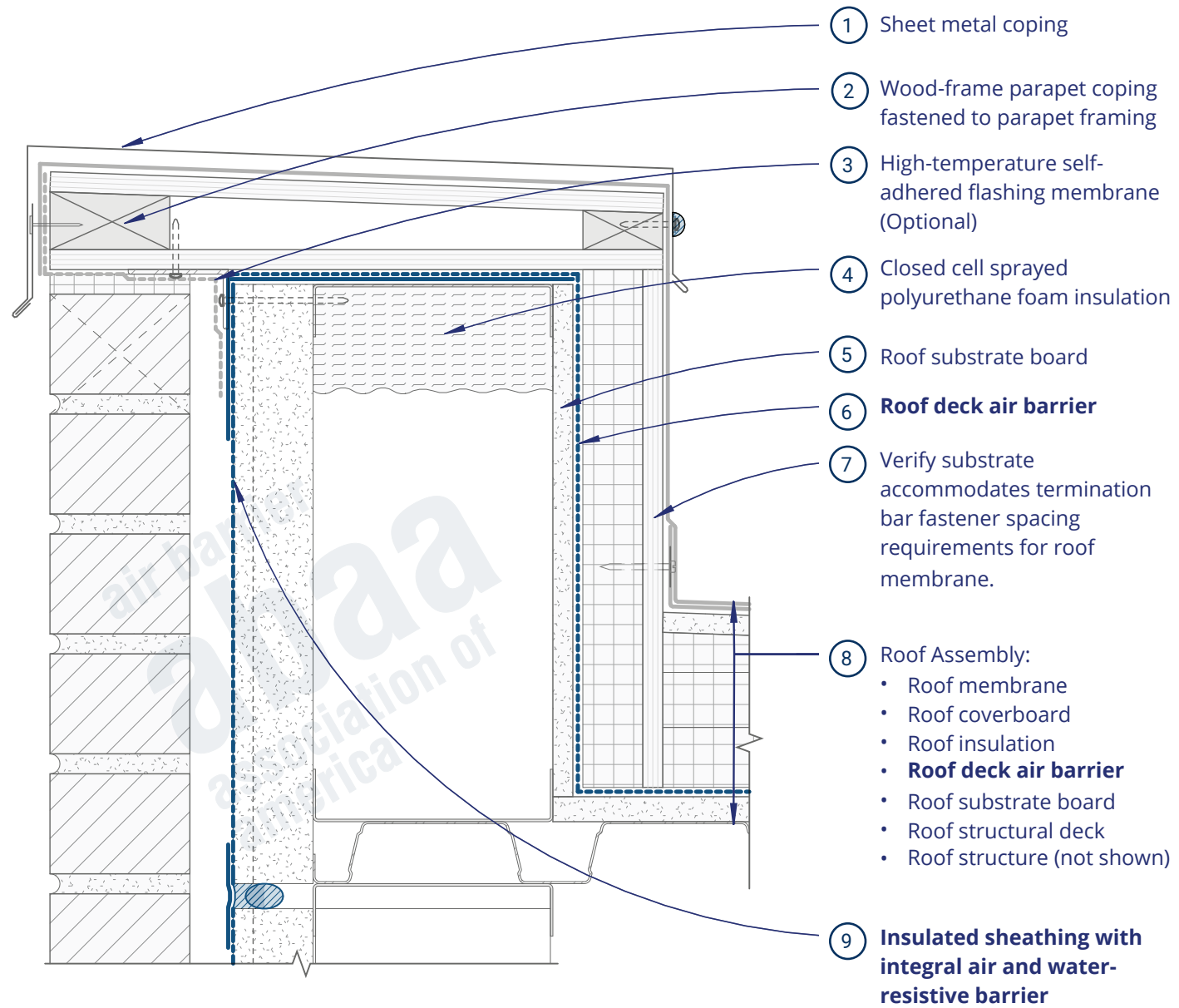


Exterior View

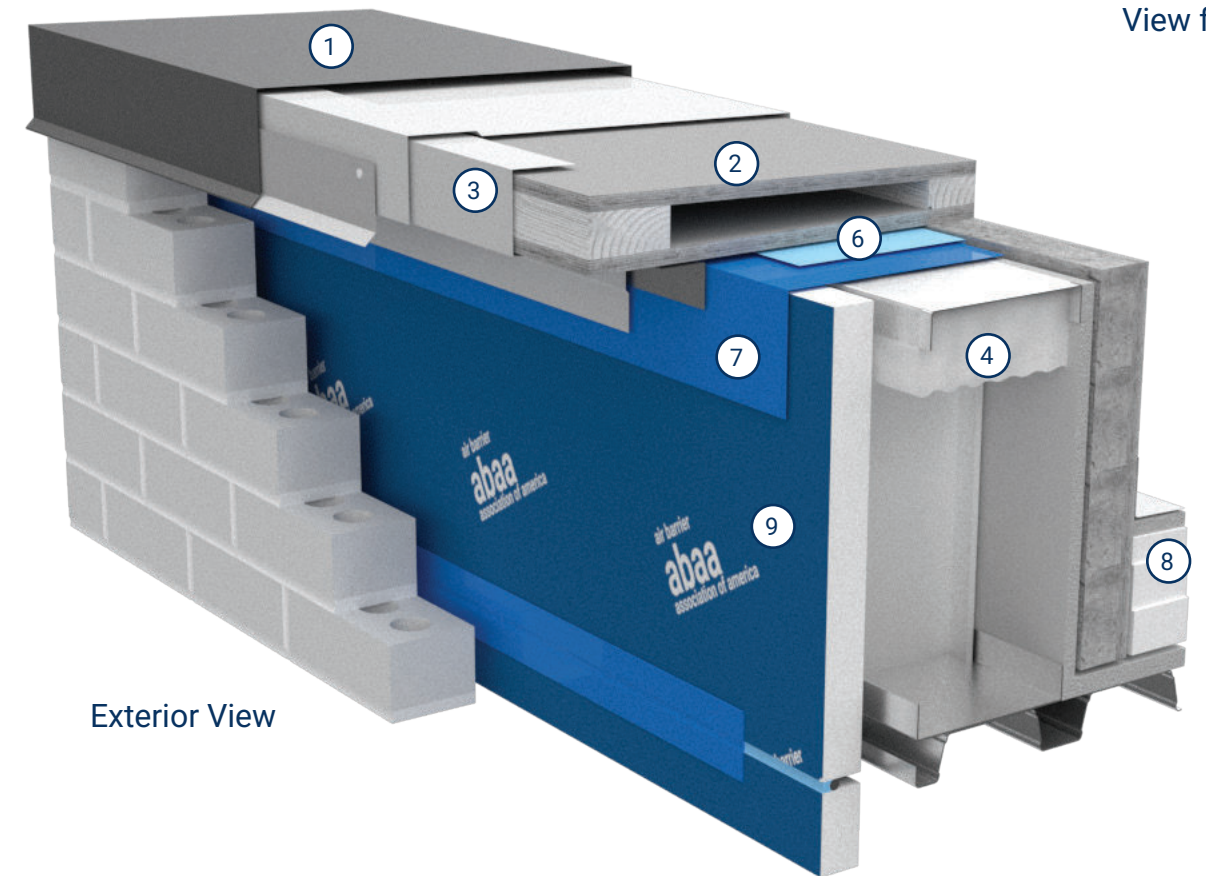
## Insulated Sheathing Rainscreen Wall - Parapet With Continuous Rigid Board Exterior Insulation (3D)

# Detail IRS5

## Insulated Sheathing Rainscreen Wall - Parapet With Foam Insulation at Top of Parapet (2D)



View from Roof

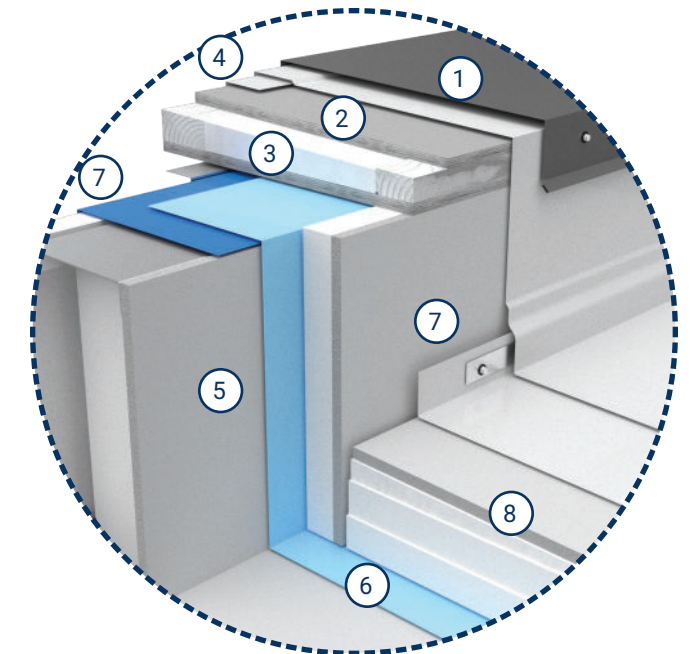
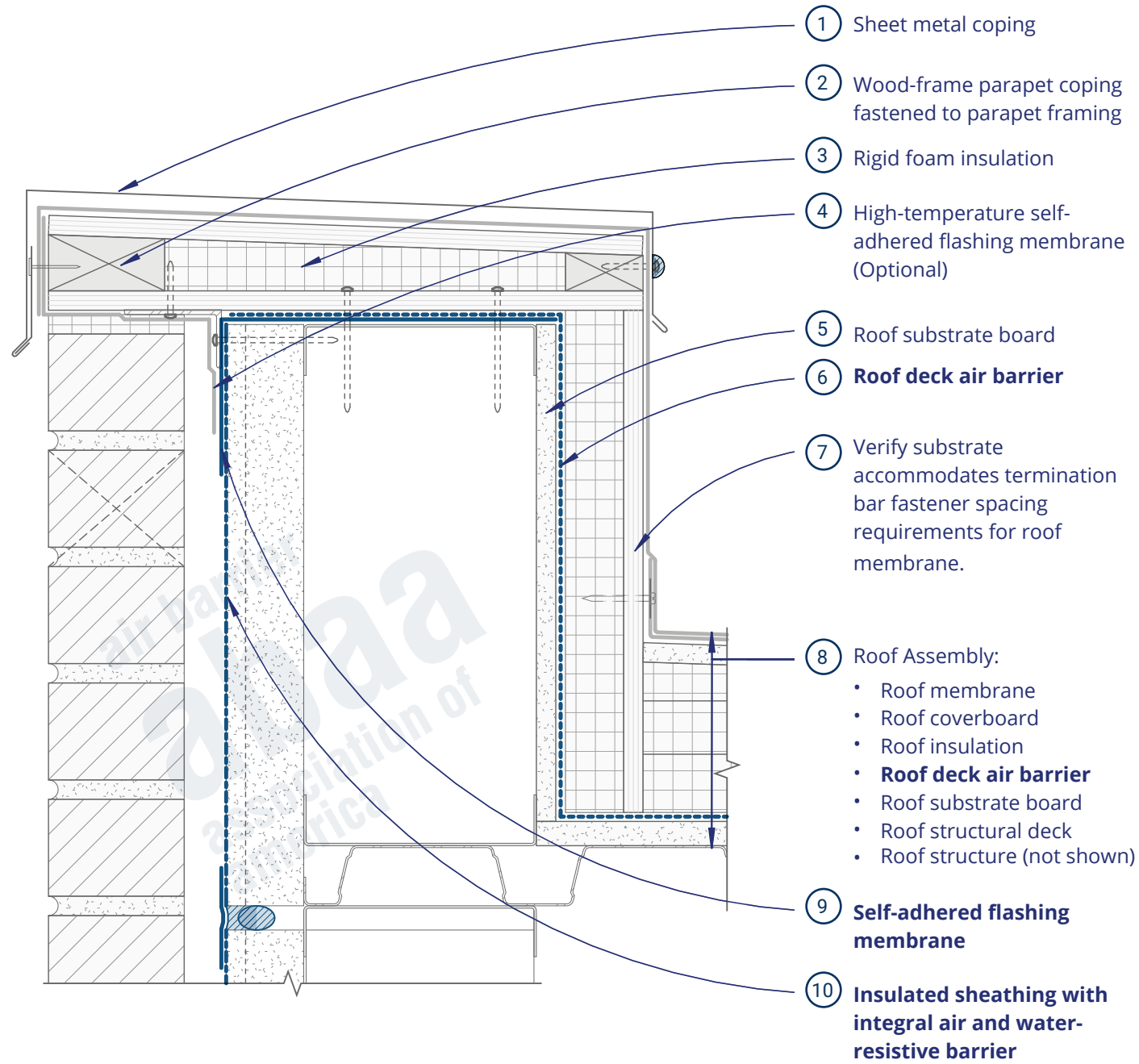


Exterior View

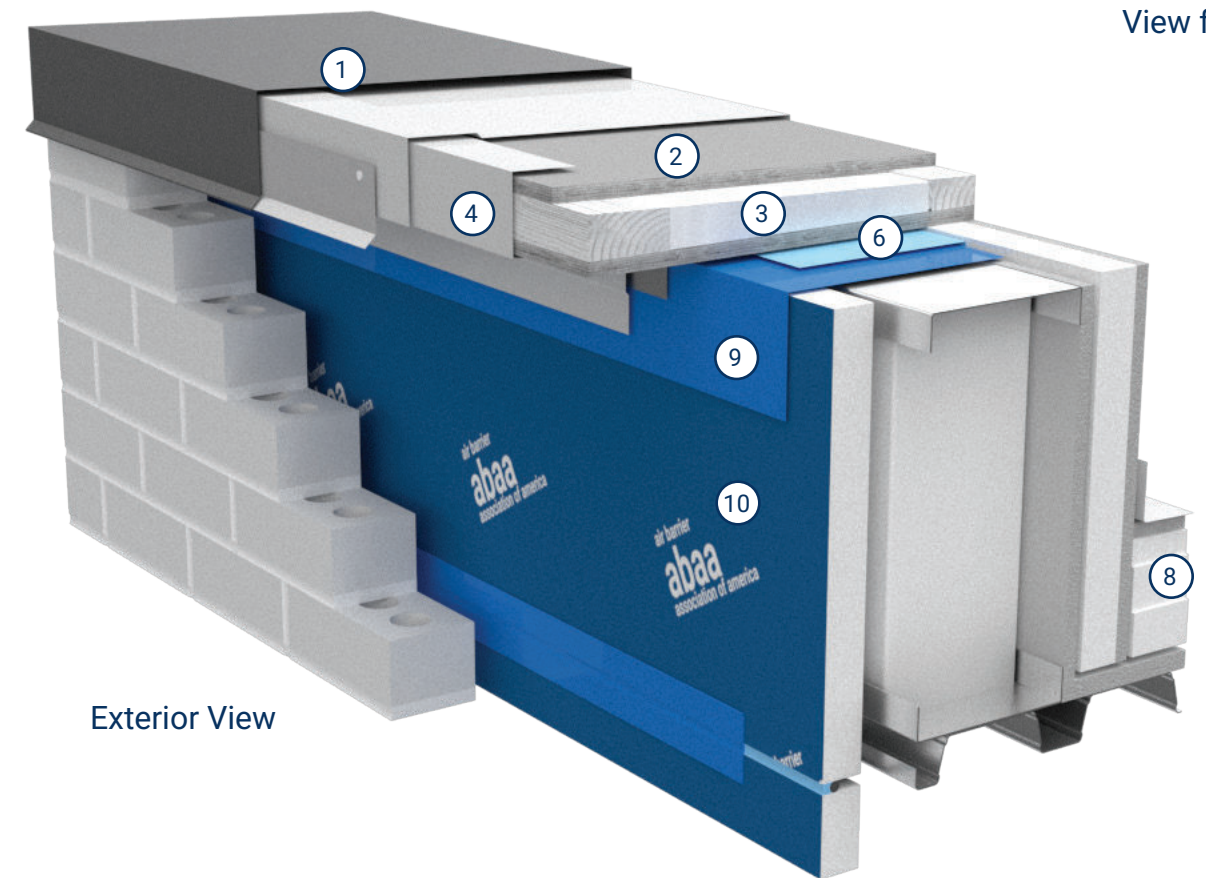
## Insulated Sheathing Rainscreen Wall - Parapet With Foam Insulation at Top of Parapet (3D)

# Detail IRS6

## Insulated Sheathing Rainscreen Wall - Parapet With Insulation within Coping Blocking Assembly (2D)



View from Roof

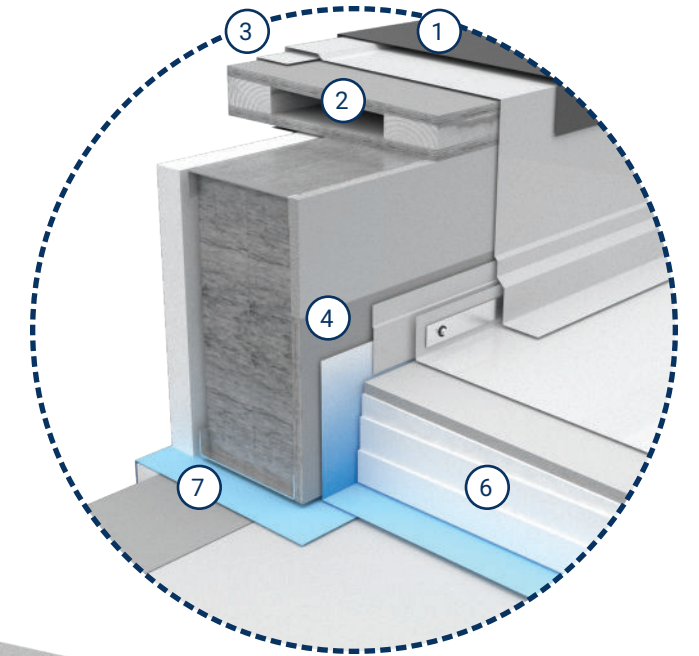
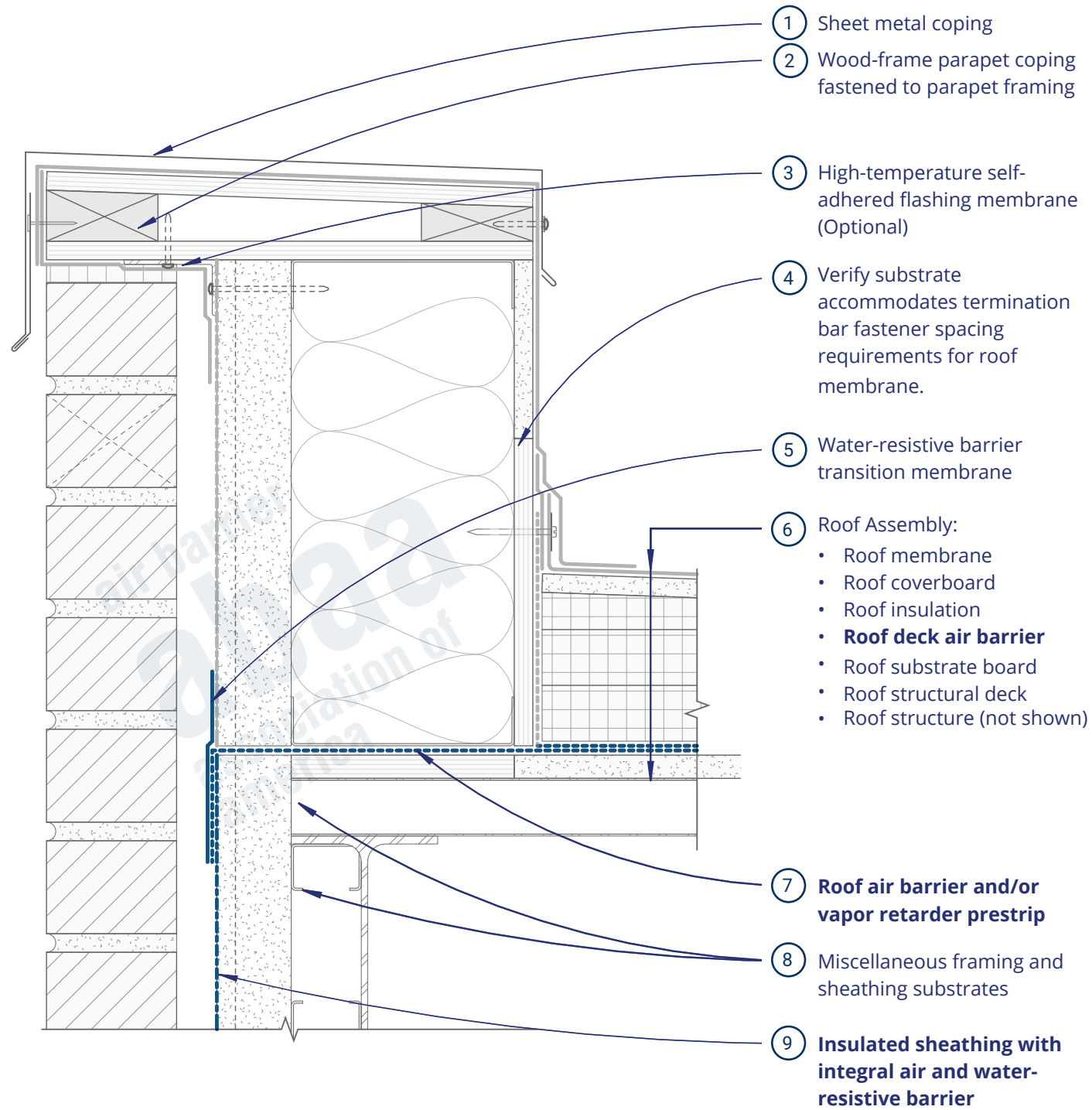


Exterior View

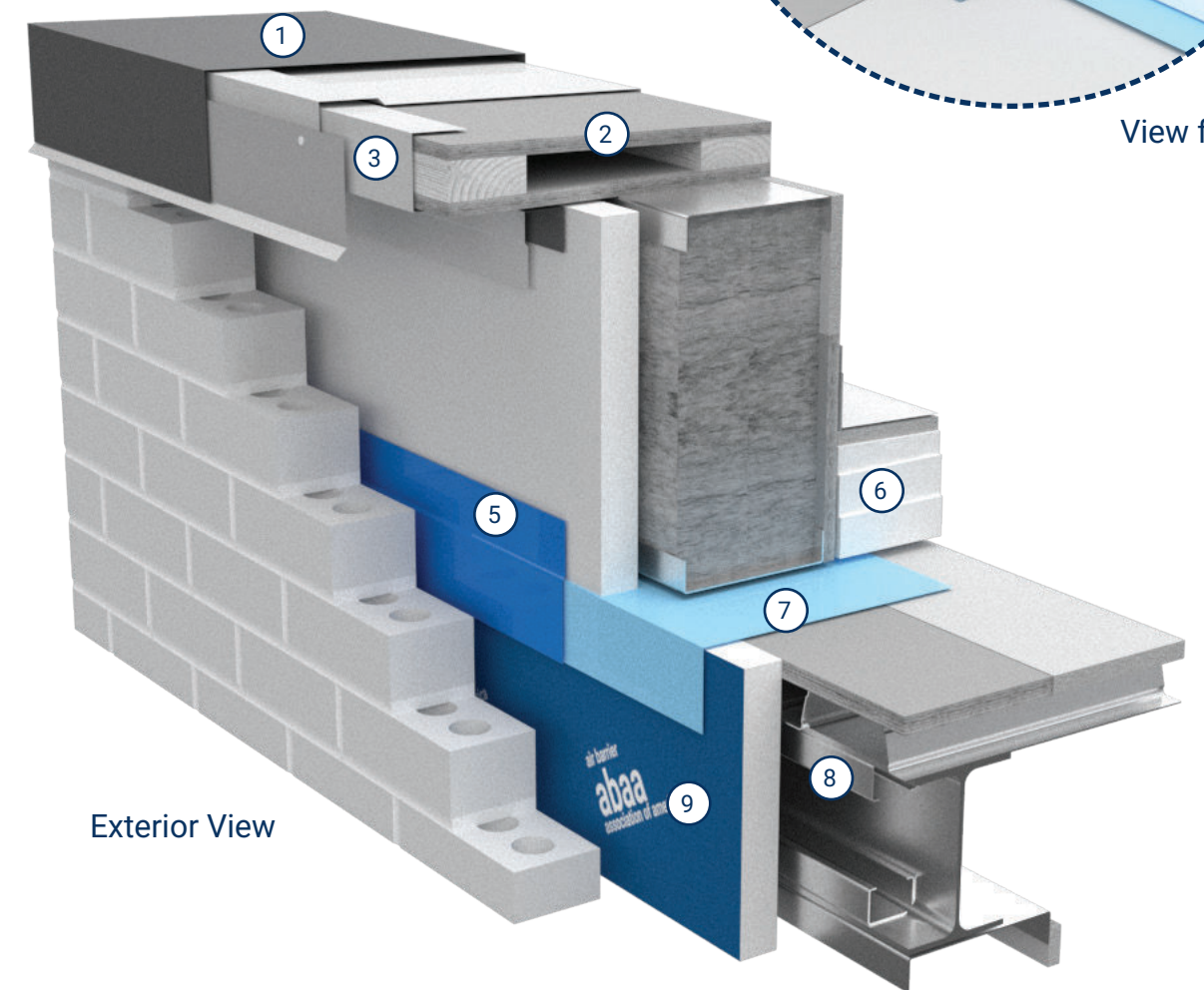
## Insulated Sheathing Rainscreen Wall - Parapet With Insulation within Coping Blocking Assembly (3D)

# Detail IRS7

## Insulated Sheathing Rainscreen Wall - Air Barrier Installation Prior to Parapet Extension - Without Thermal Break (2D)



View from Roof

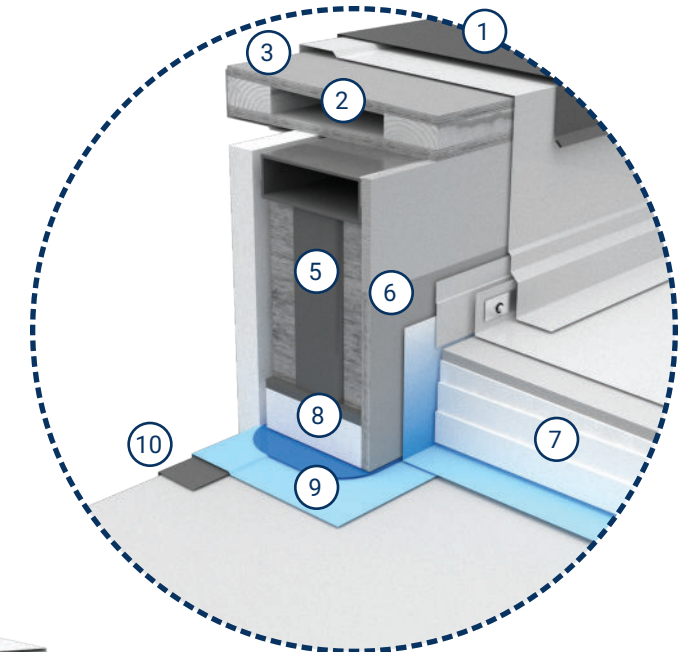
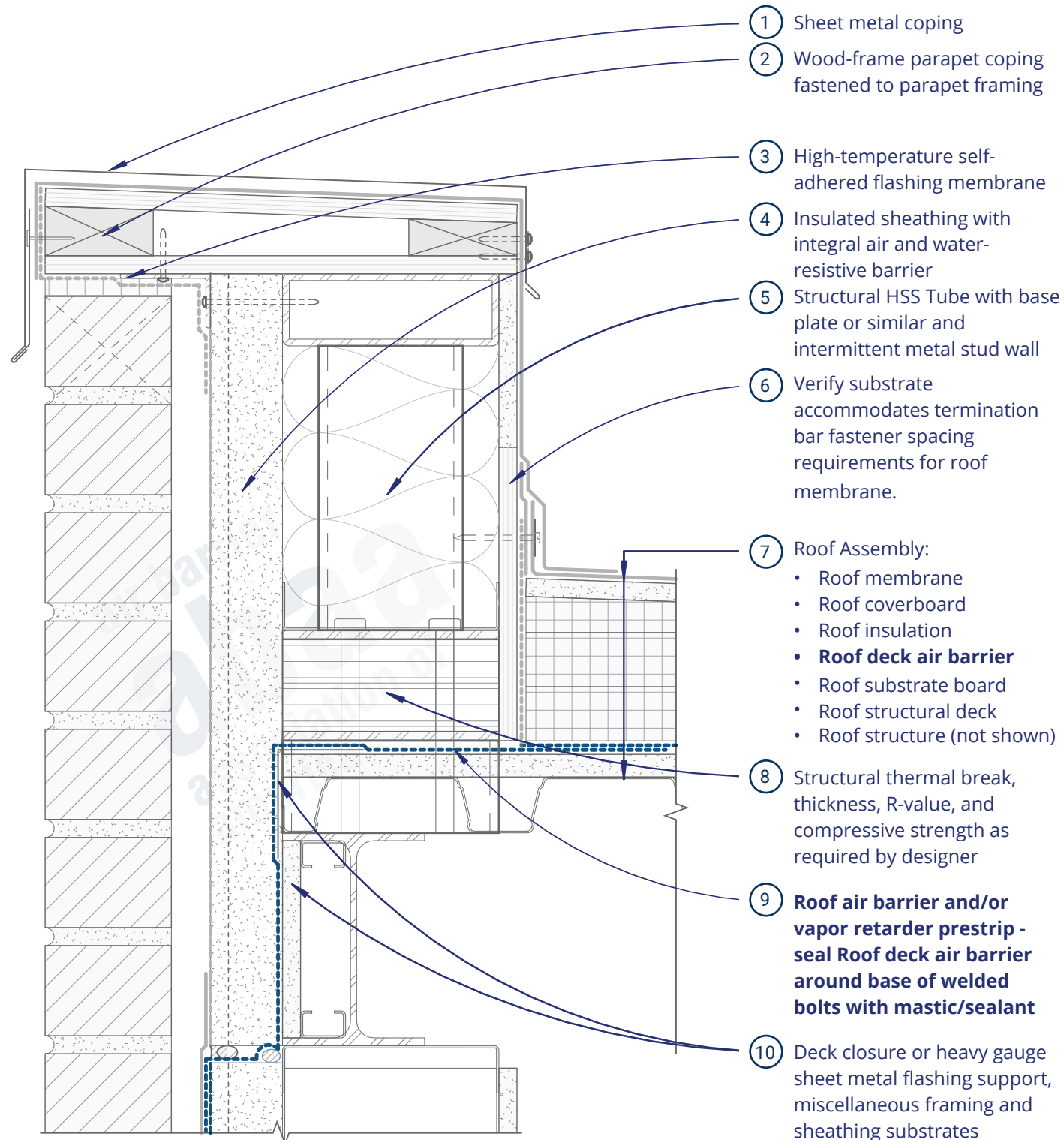


Exterior View

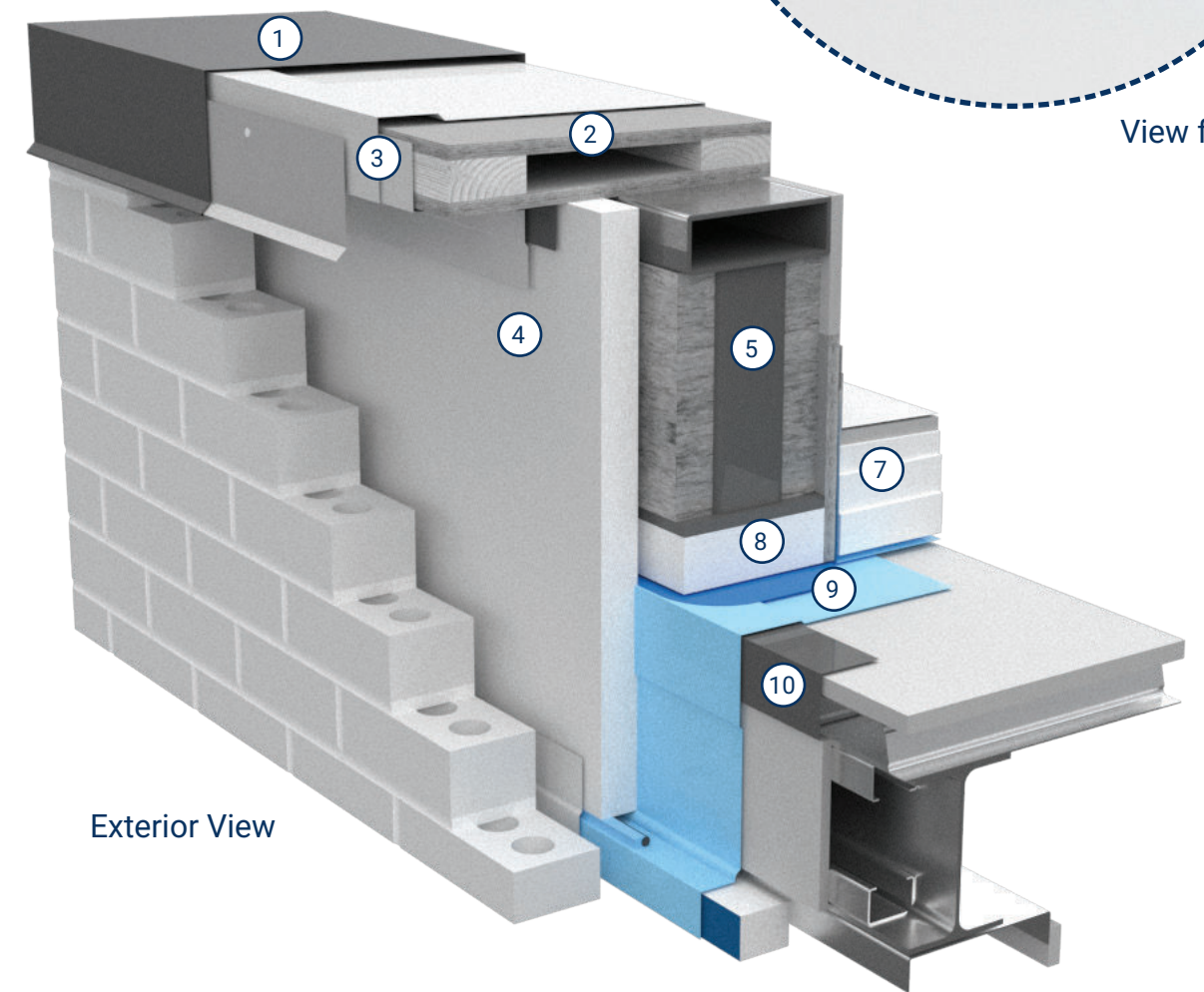
## Insulated Sheathing Rainscreen Wall - Air Barrier Installation Prior to Parapet Extension - Without Thermal Break (3D)

# Detail IRS8

## Insulated Sheathing Rainscreen Wall - Air Barrier Installation Prior to Parapet Extension - With Thermal Break (2D)



View from Roof



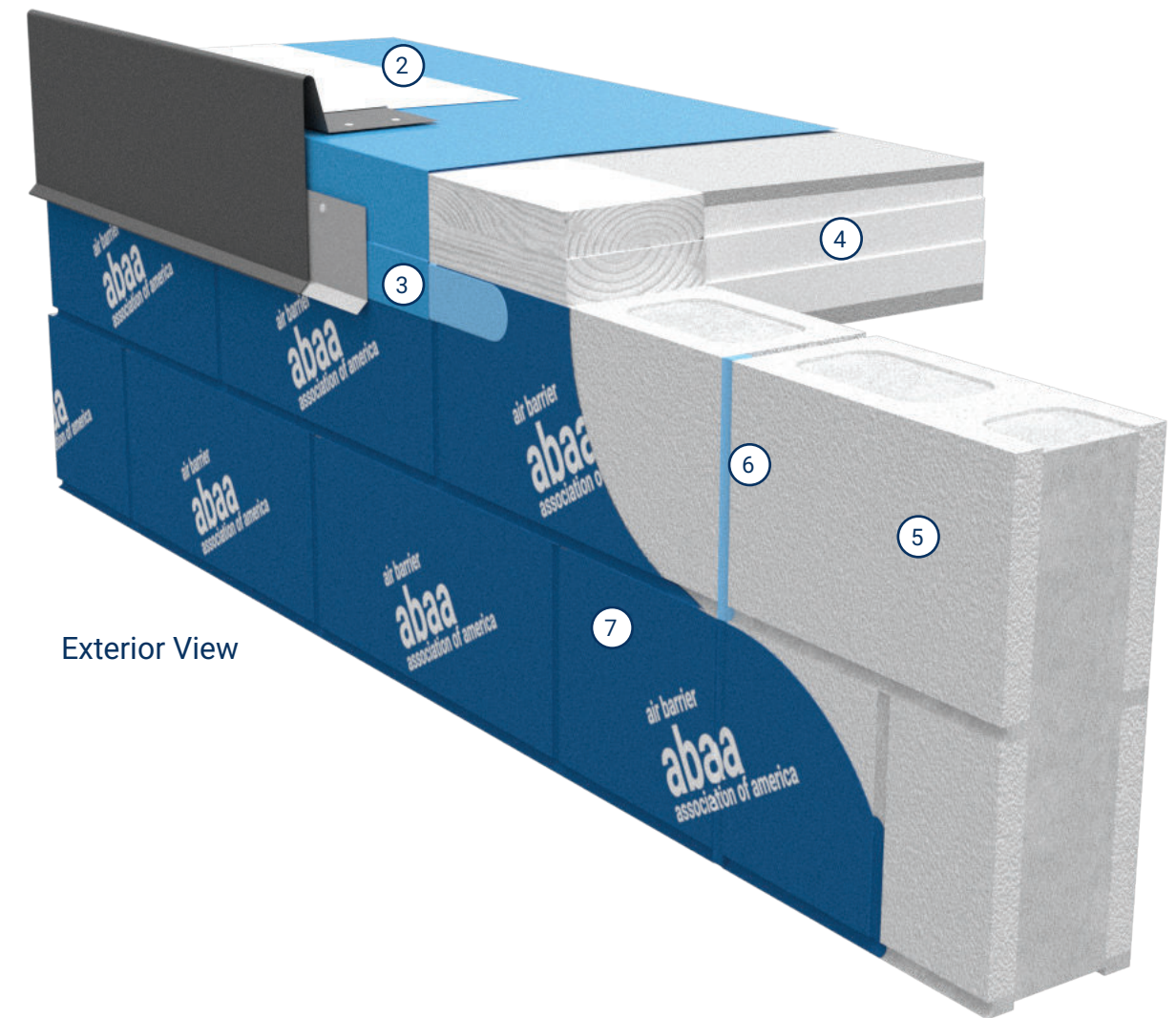
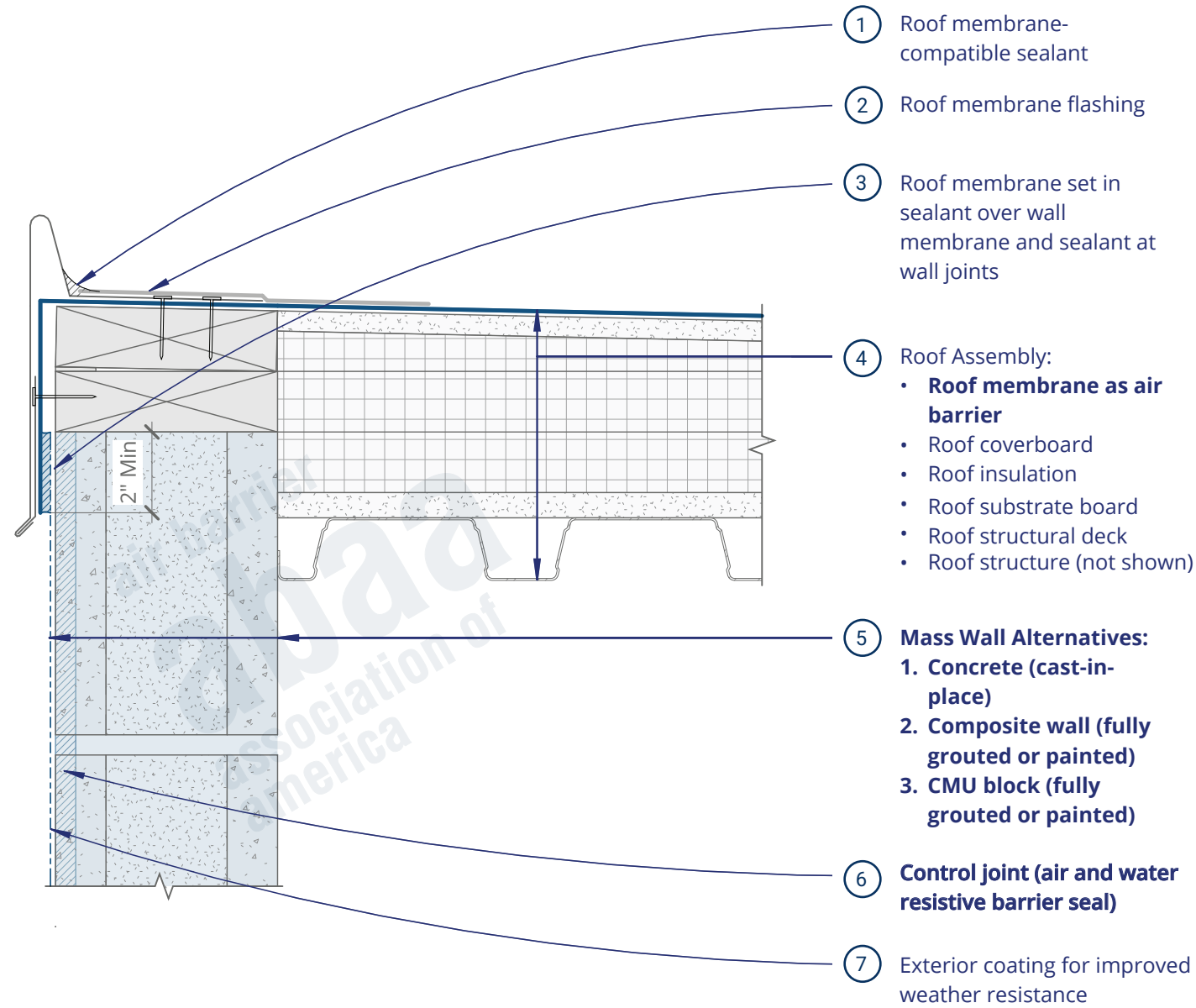
Exterior View

## Insulated Sheathing Rainscreen Wall - Air Barrier Installation Prior to Parapet Extension - With Thermal Break (3D)

**Parapet Details:**  
See General Notes sheet regarding parapet heights, condensation risk, and air and thermal continuity.

# Detail MW1

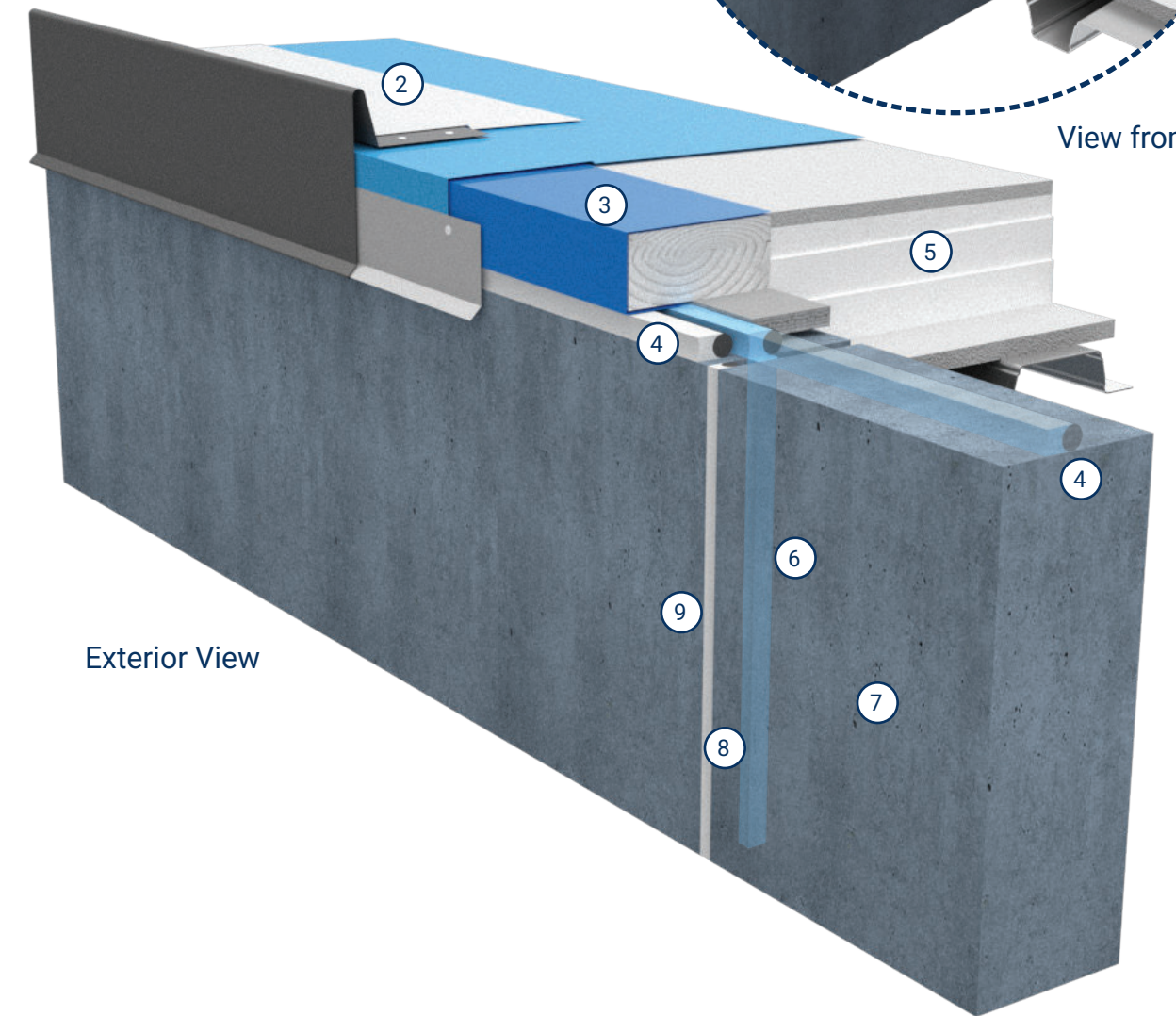
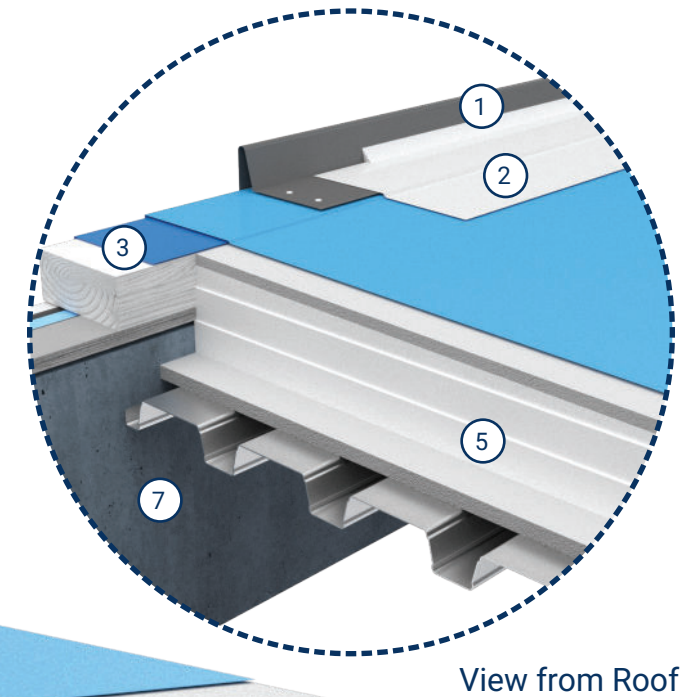
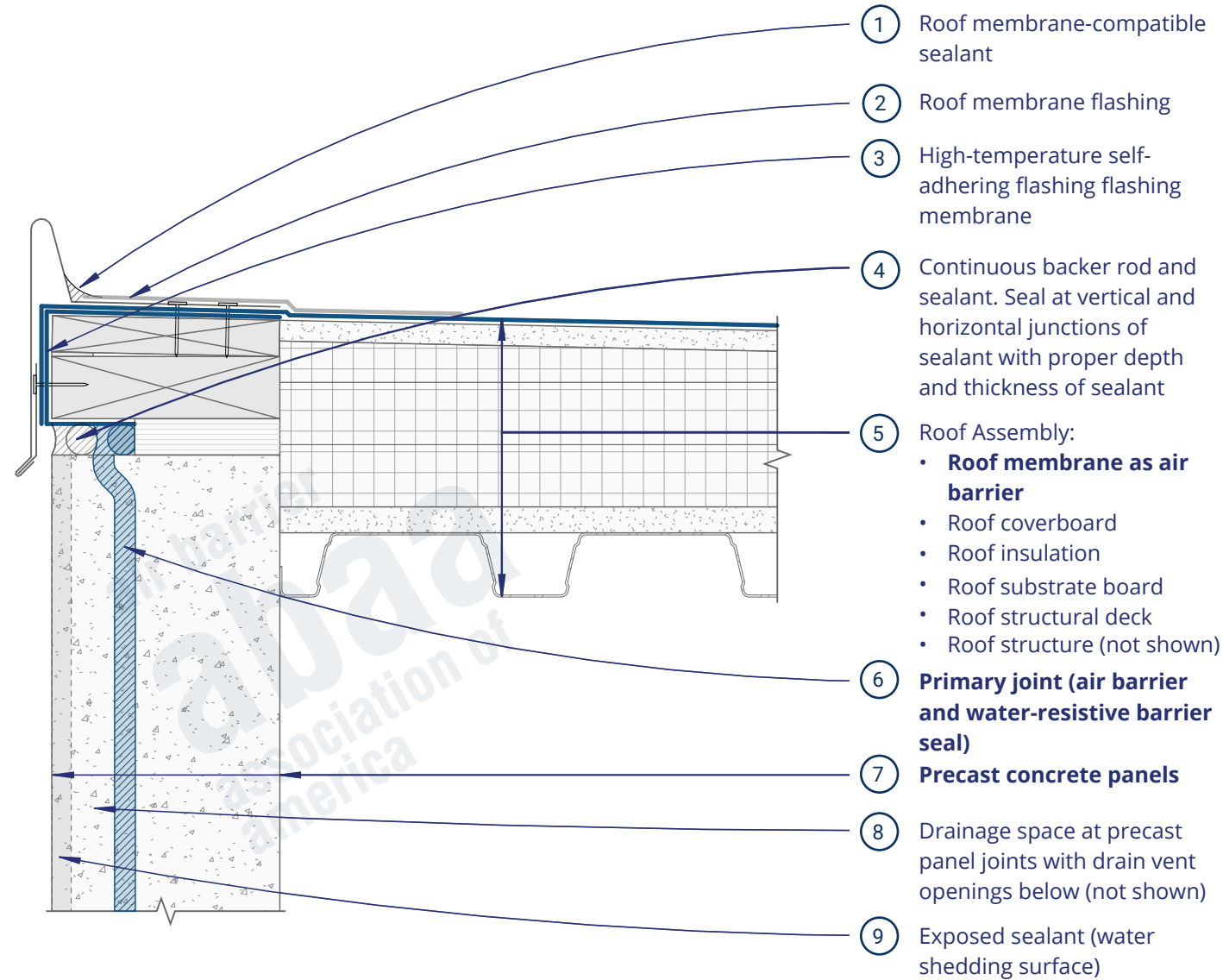
## Mass Wall - Without Roof Deck Air Barrier (2D)



## Mass Wall - Without Roof Deck Air Barrier (3D)

# Detail MW2

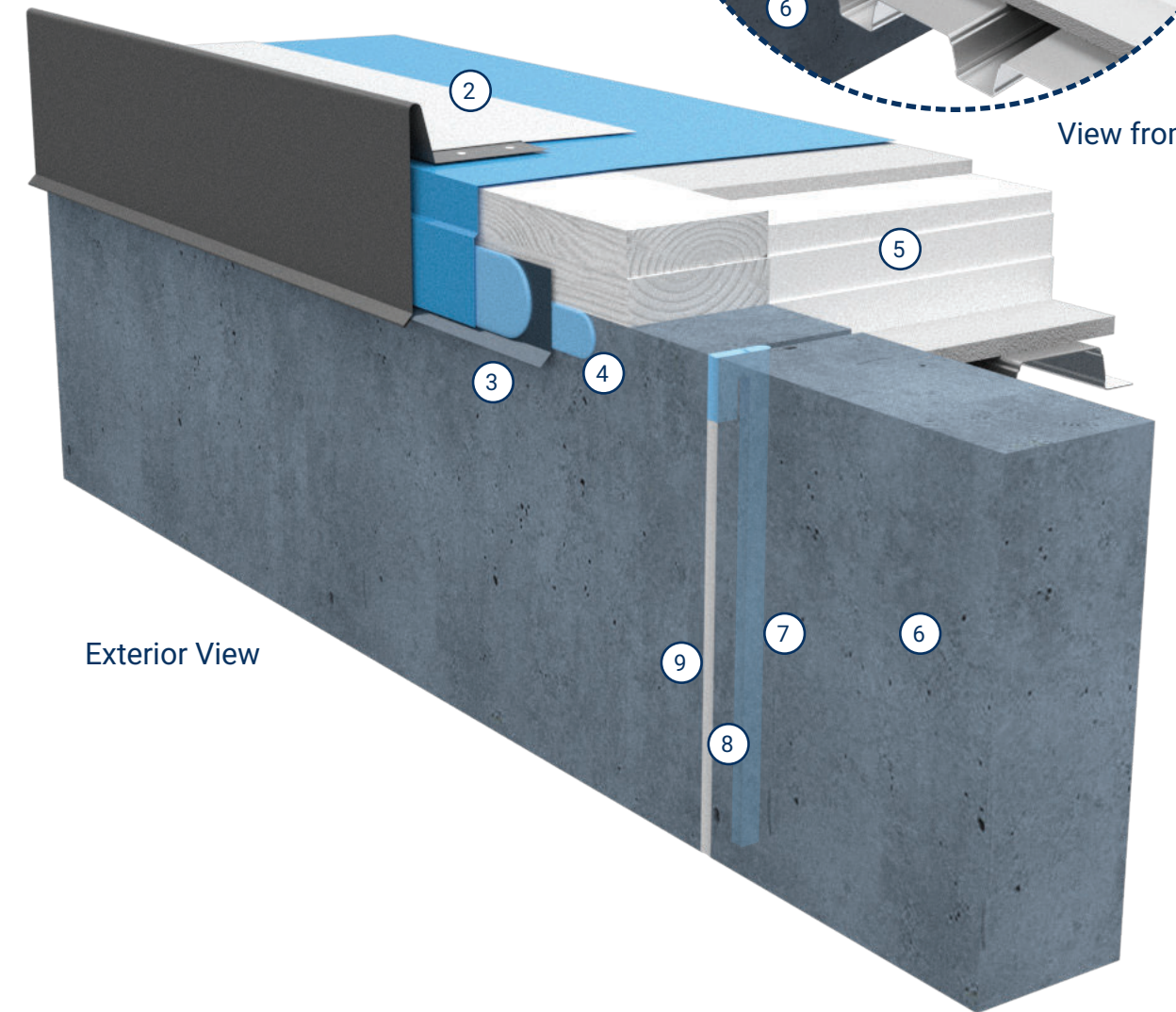
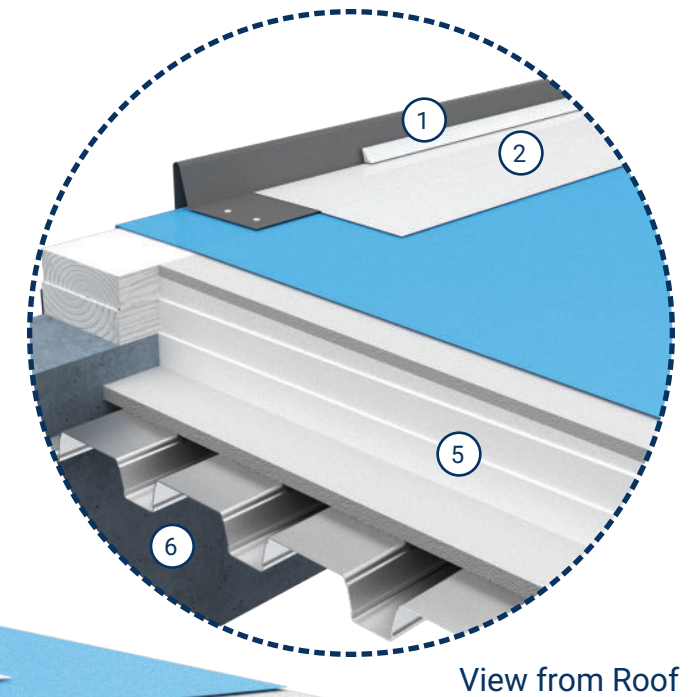
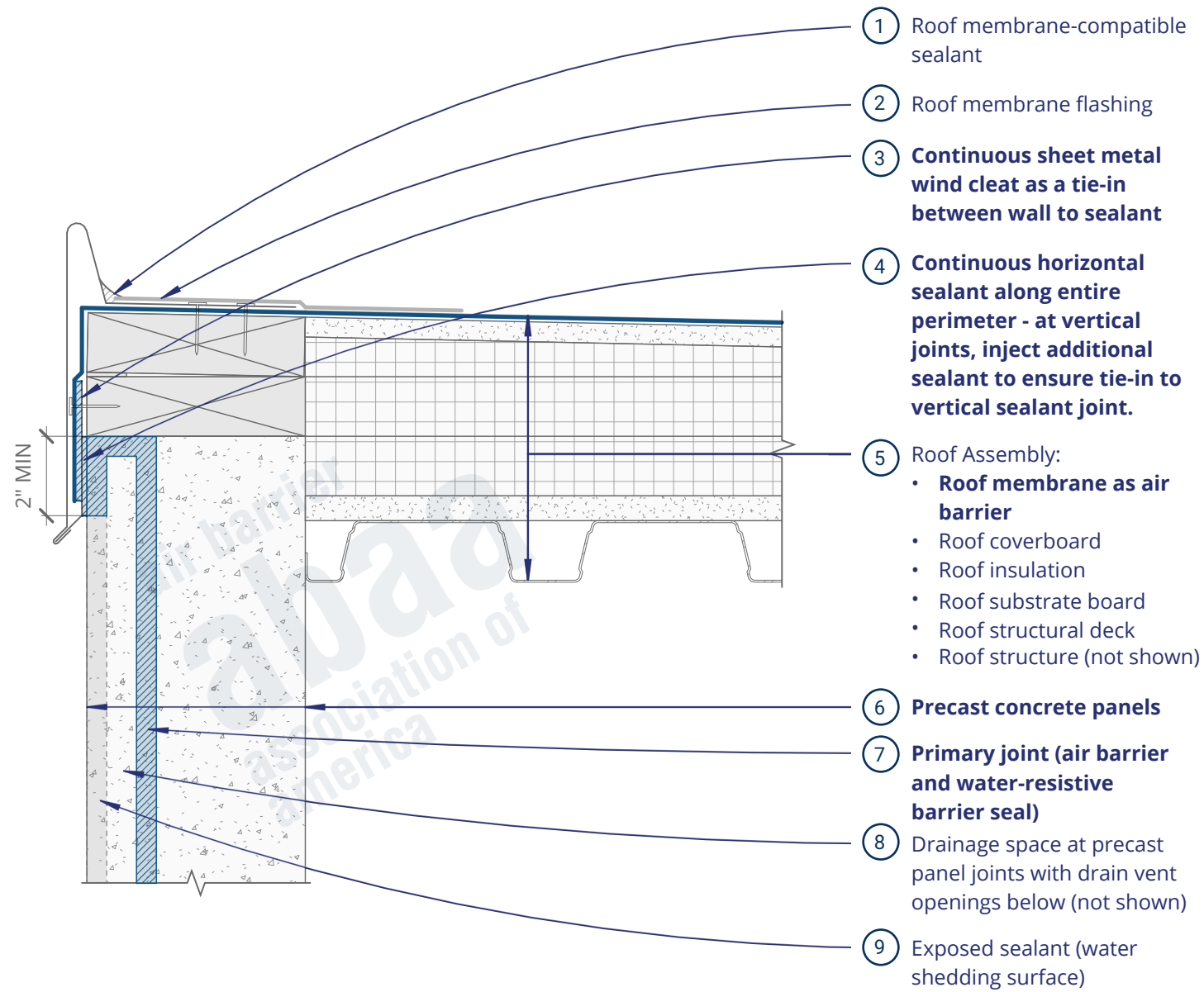
## Precast Concrete Panel - Without Roof Deck Air Barrier - Option A (2D)



## Precast Concrete Panel - Without Roof Deck Air Barrier - Option A (3D)

# Detail MW3

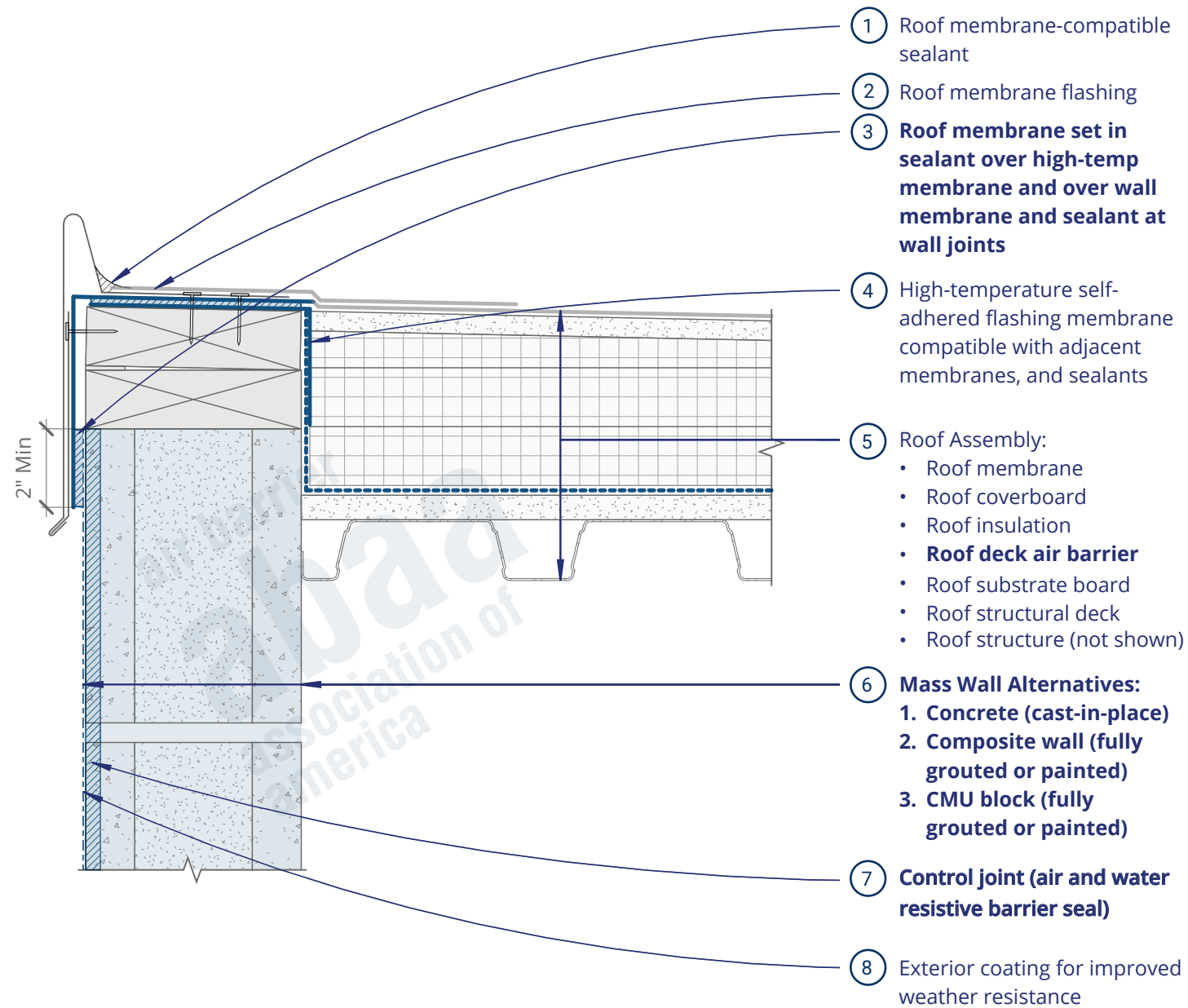
## Precast Concrete Panel - Without Roof Deck Air Barrier - Option B (2D)



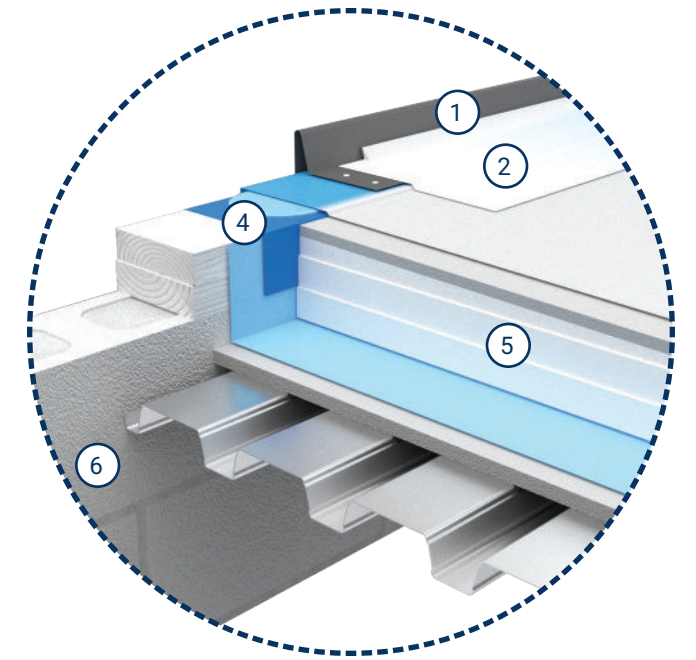
## Precast Concrete Panel - Without Roof Deck Air Barrier - Option B (3D)

# Detail MW4

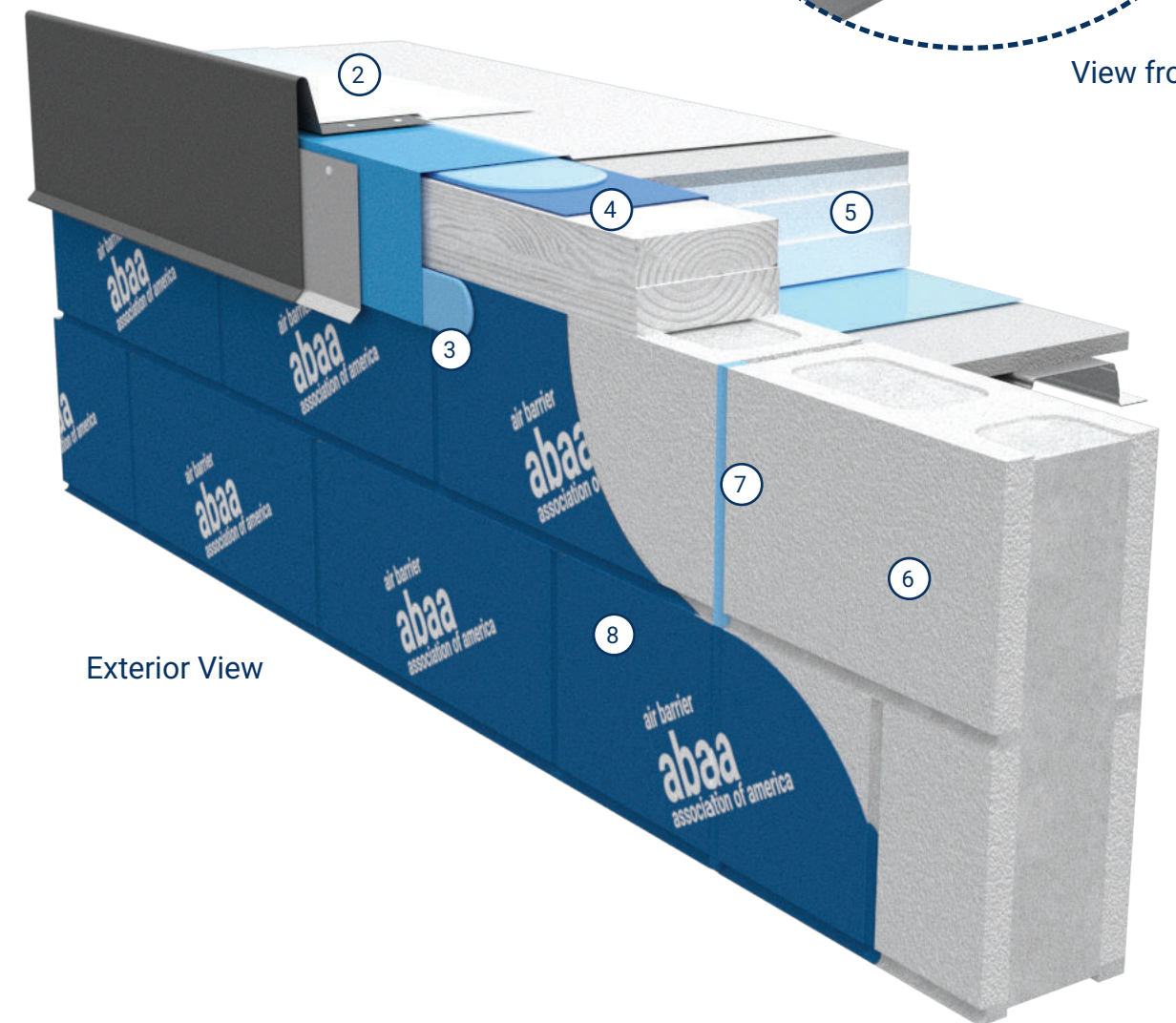
## Mass Wall - With Roof Deck Air Barrier - Option A (2D)



### GUIDE DETAILS: ROOF-TO-WALL TRANSITIONS



View from Roof

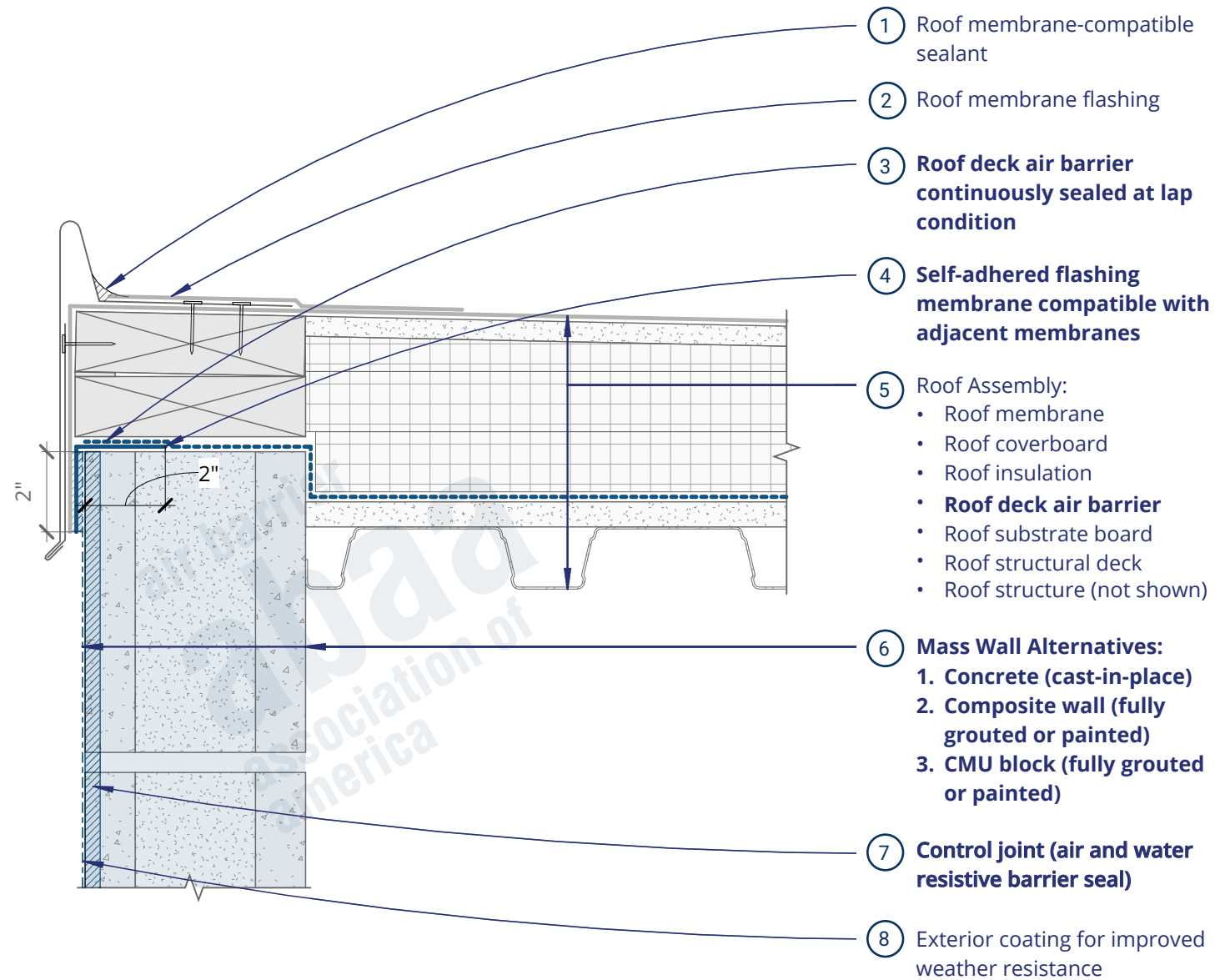


Exterior View

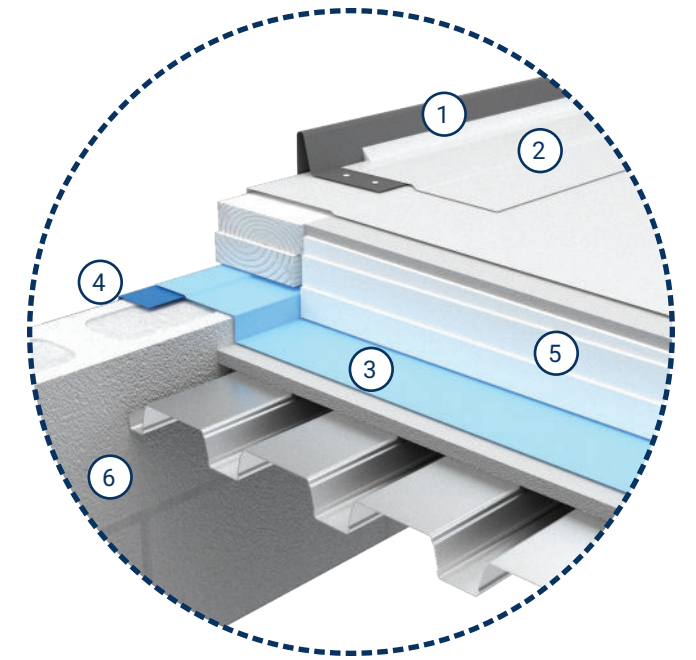
## Mass Wall - With Roof Deck Air Barrier - Option A (3D)

# Detail MW5

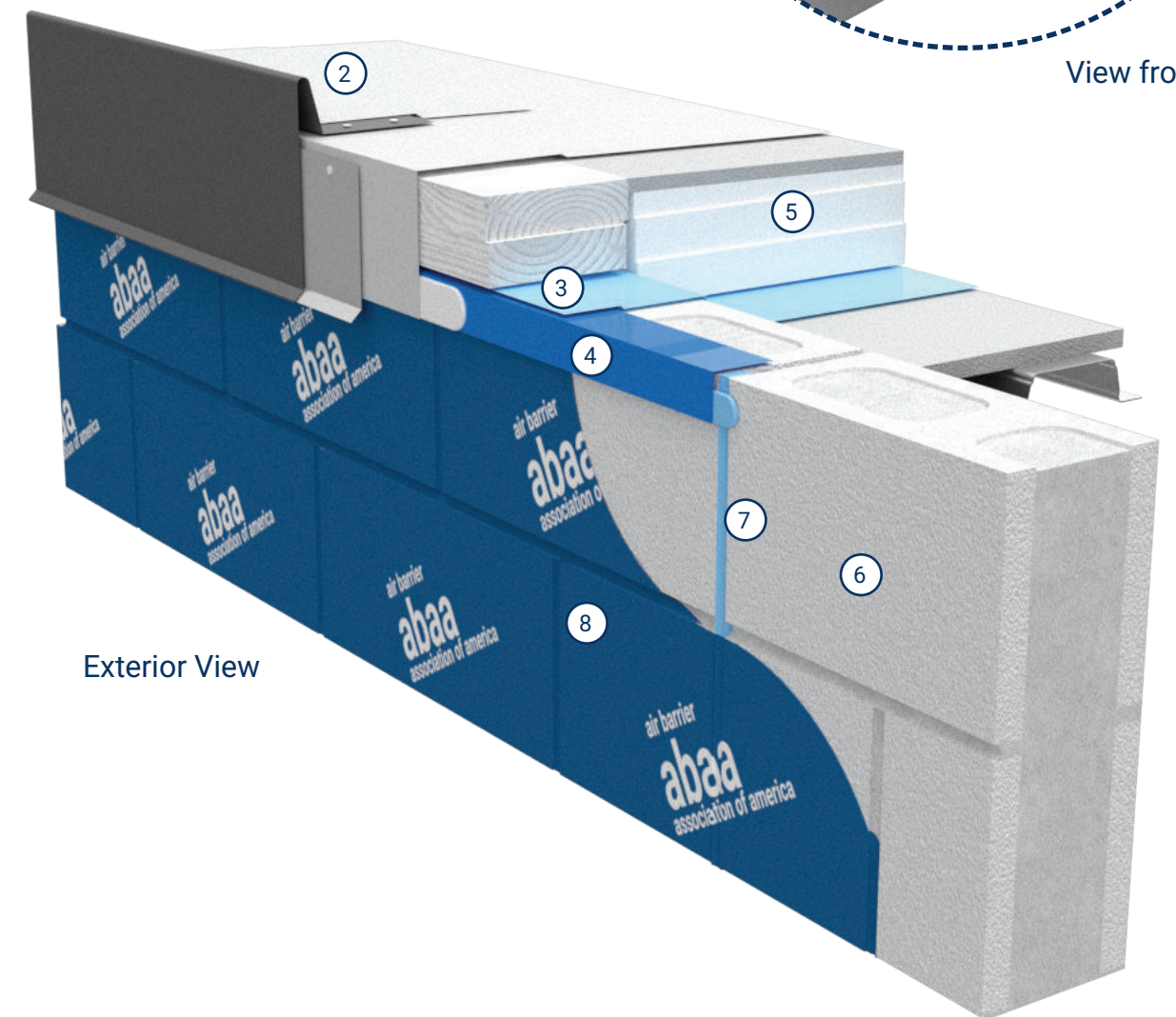
## Mass Wall - With Roof Deck Air Barrier - Option B (2D)



### GUIDE DETAILS: ROOF-TO-WALL TRANSITIONS



View from Roof

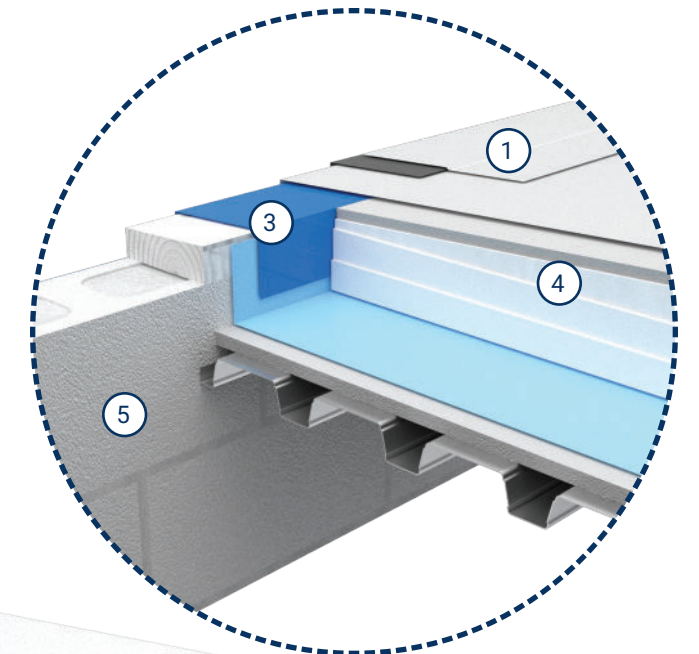
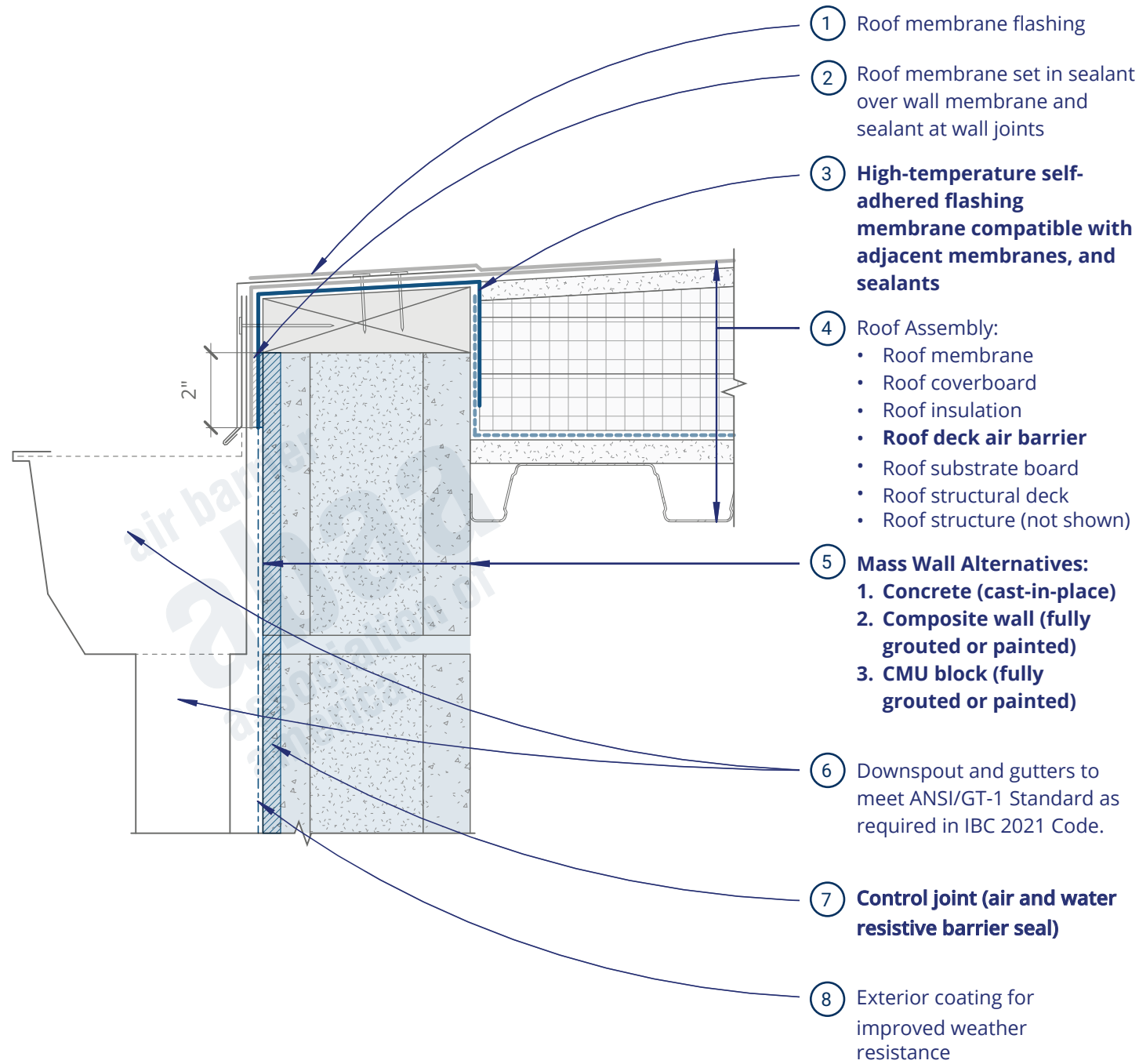


Exterior View

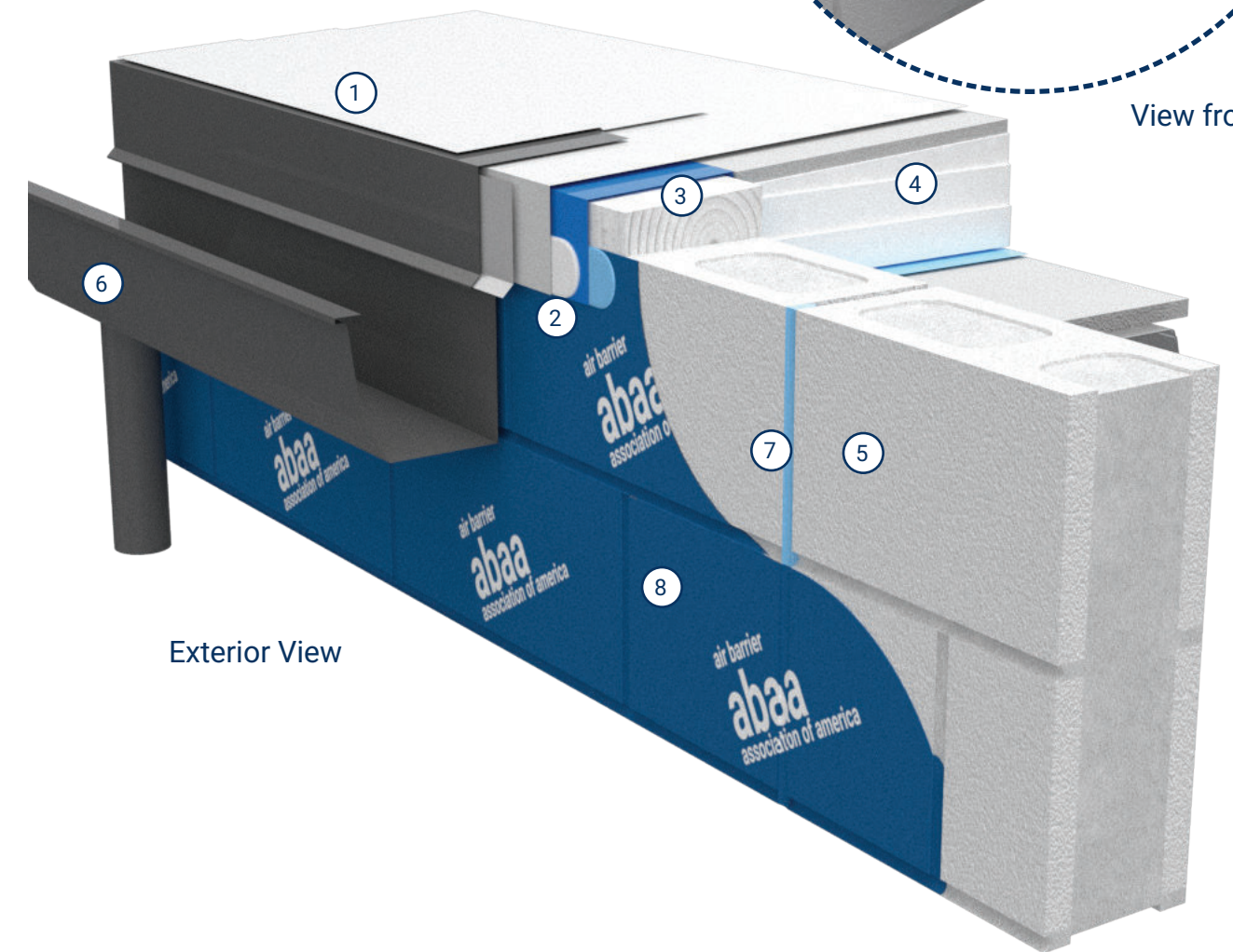
## Mass Wall - With Roof Deck Air Barrier - Option B (3D)

# Detail MW6

## Mass Wall - Gutter Edge With Roof Deck Air Barrier (2D)



View from Roof

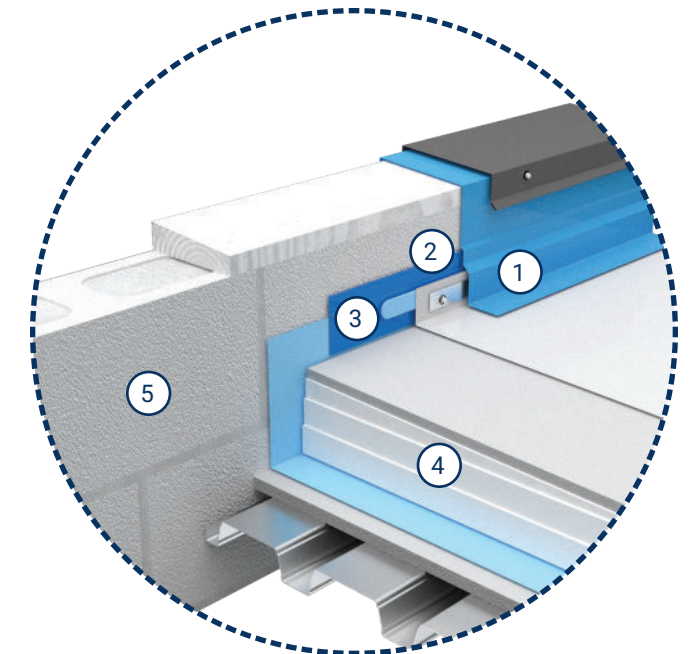
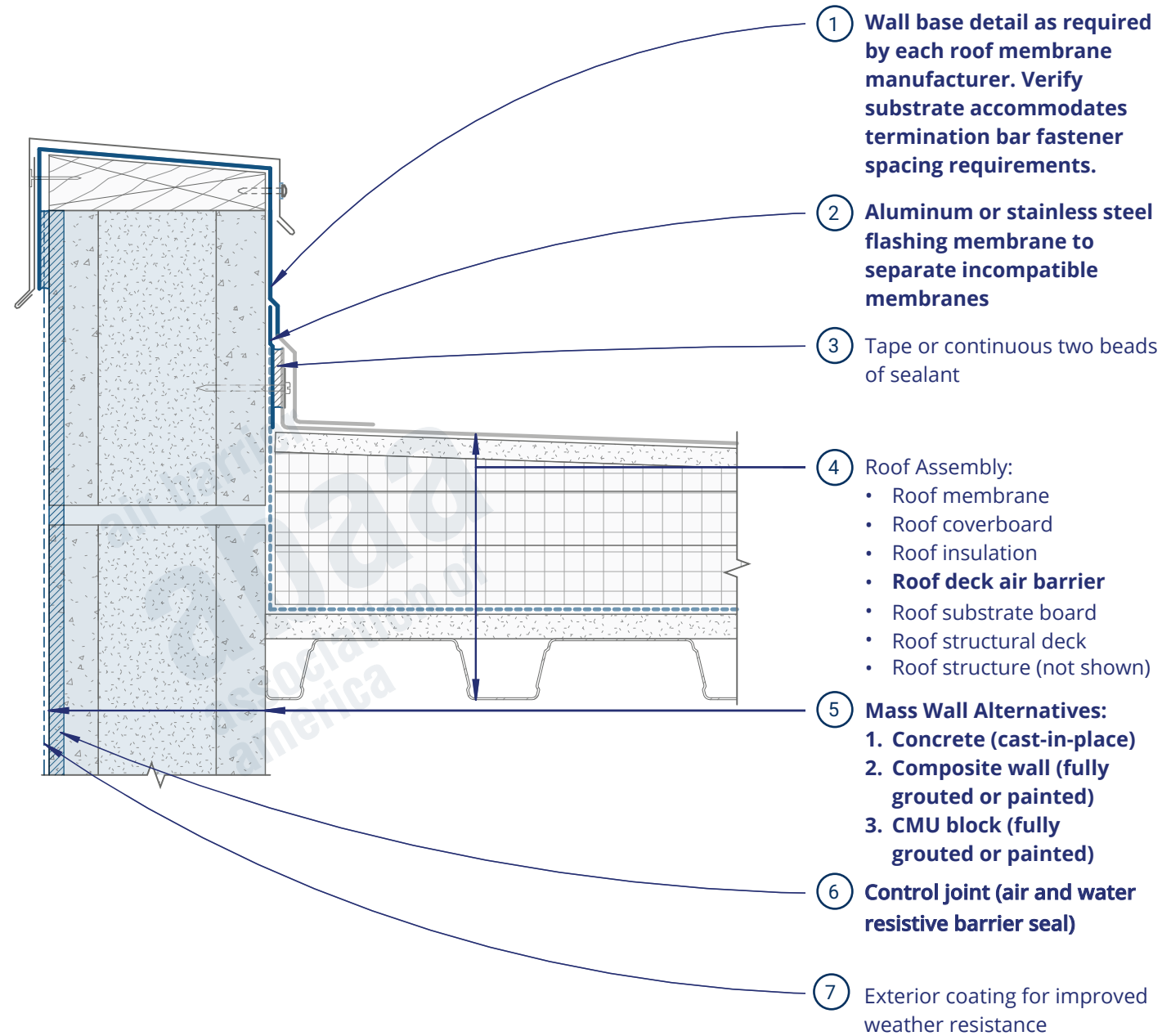


Exterior View

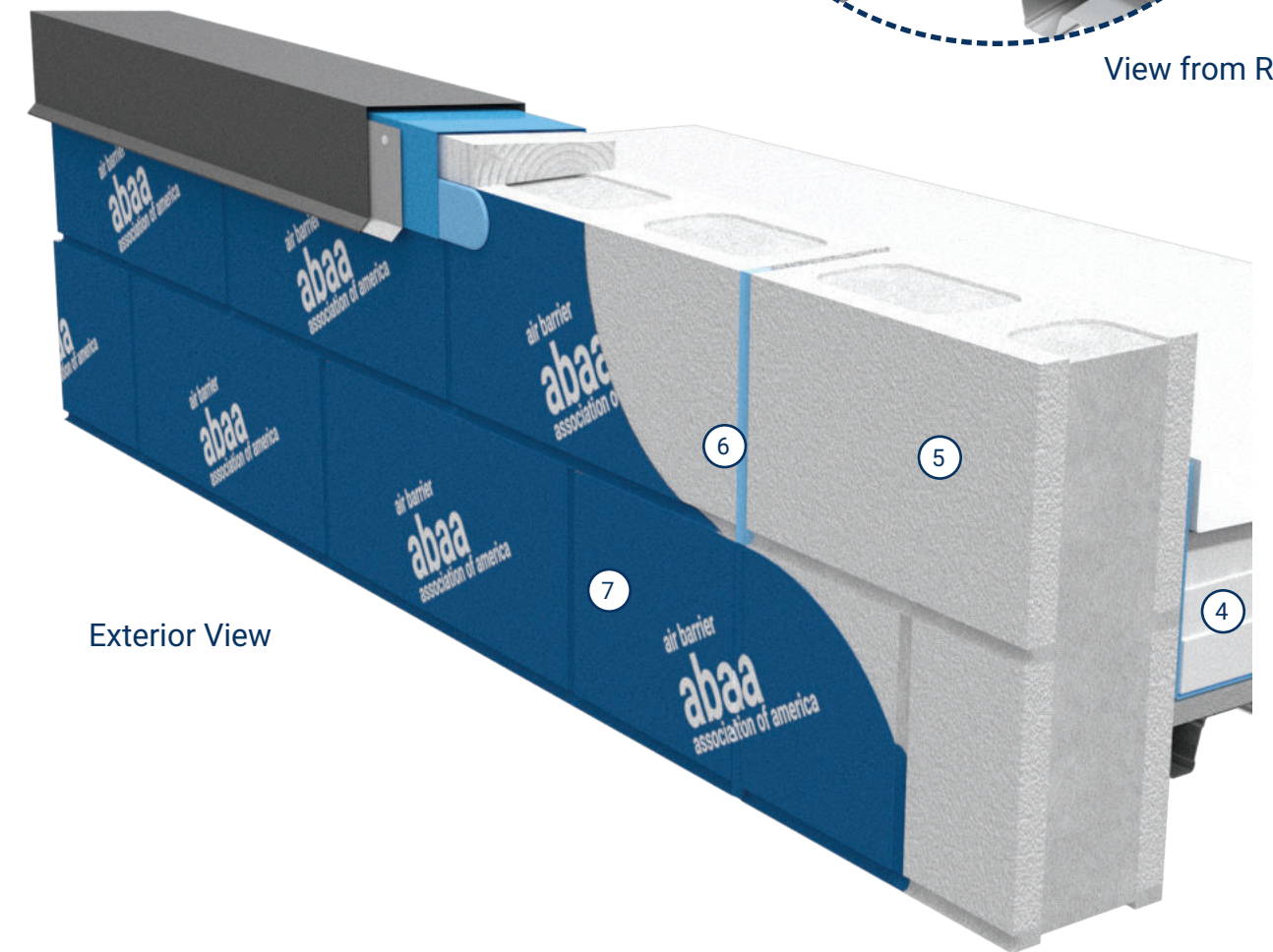
## Mass Wall - Gutter Edge With Roof Deck Air Barrier (3D)

# Detail MW7

## Mass Wall - Parapet With Roof Deck Air Barrier (2D)



View from Roof

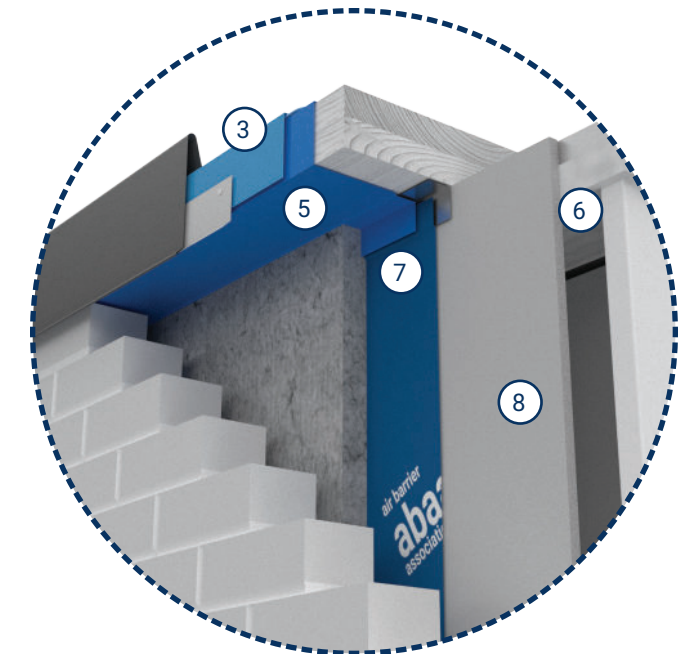
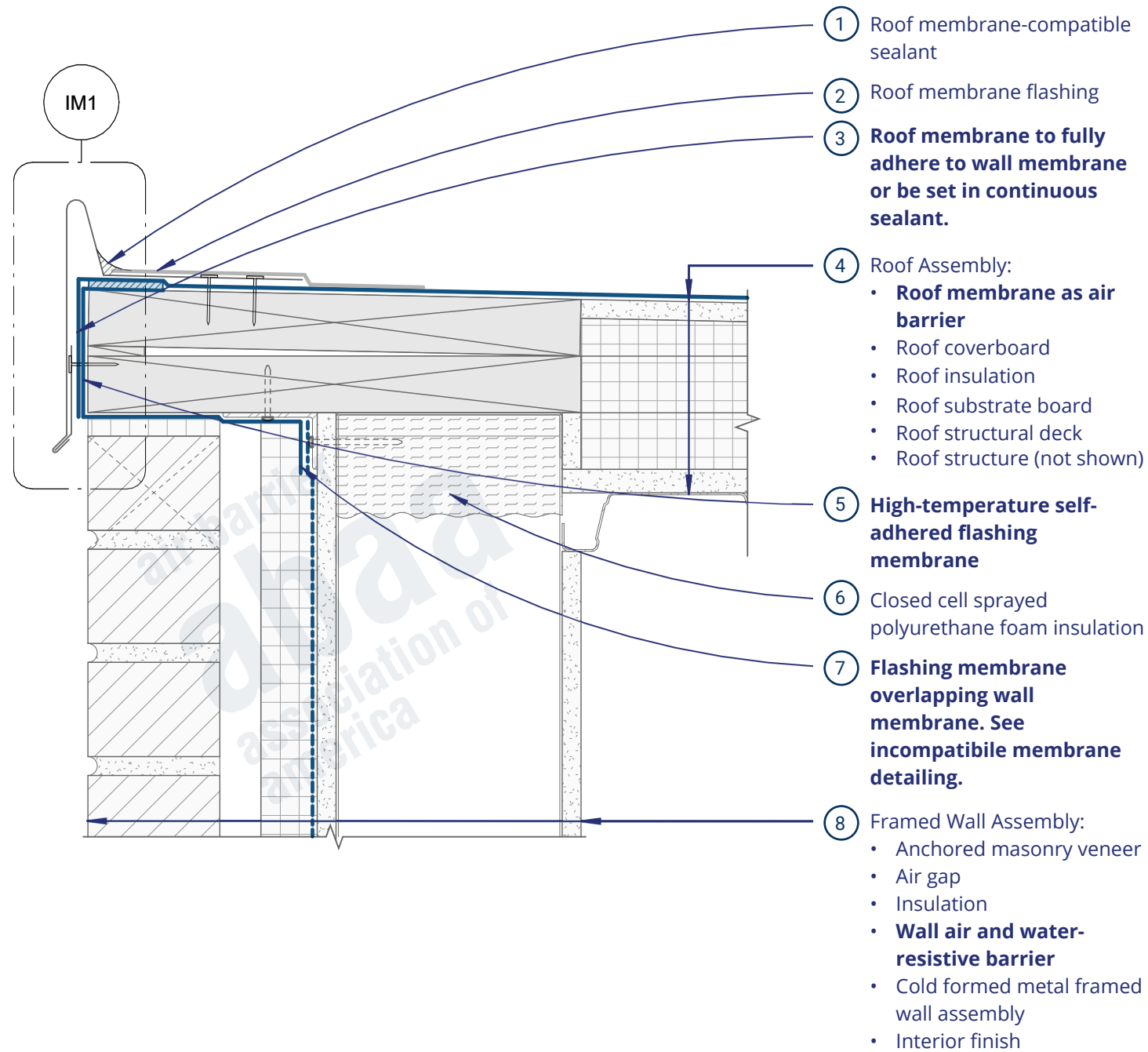


Exterior View

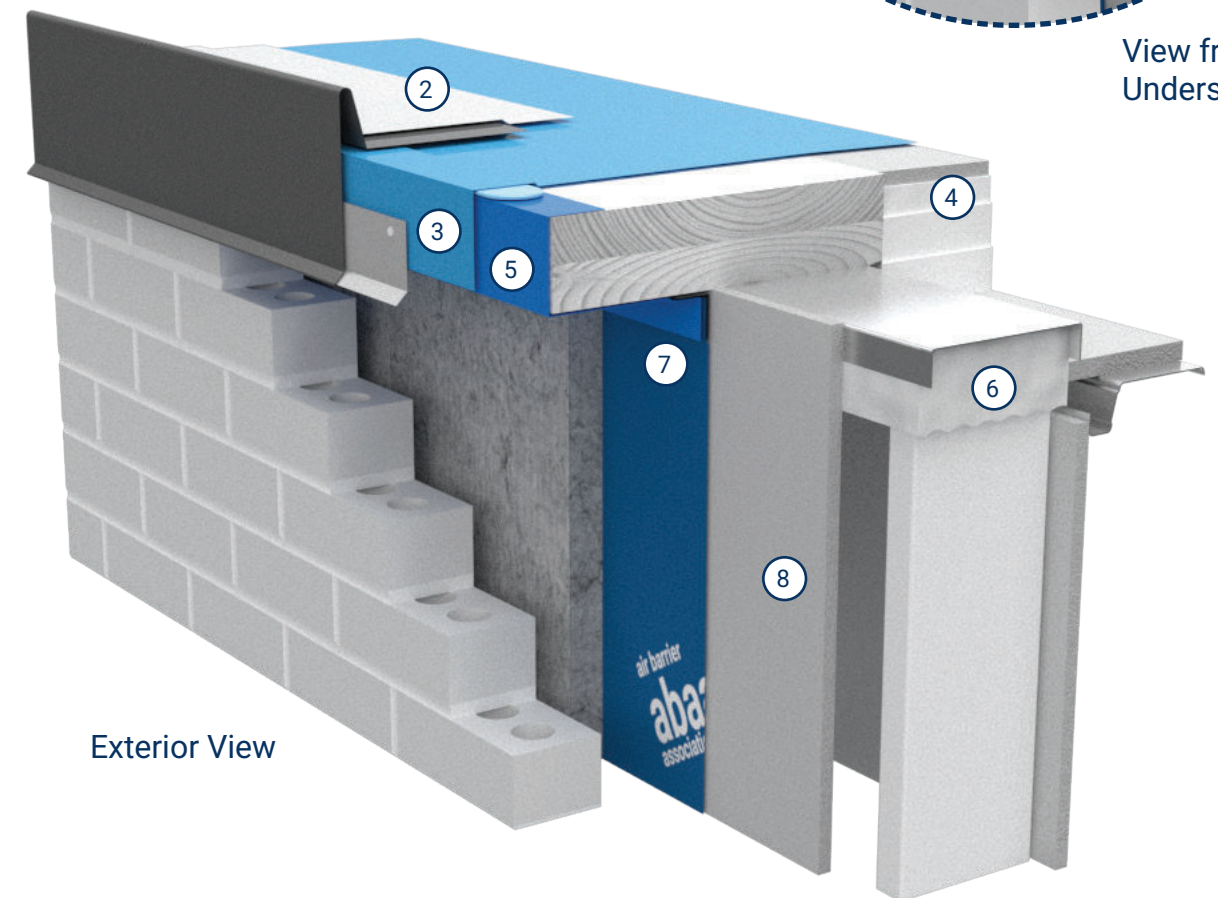
## Mass Wall - Parapet With Roof Deck Air Barrier (3D)

# Detail RS1

## Rainscreen Wall - Roof Edge Without Roof Deck Air Barrier (2D)



View from Underside

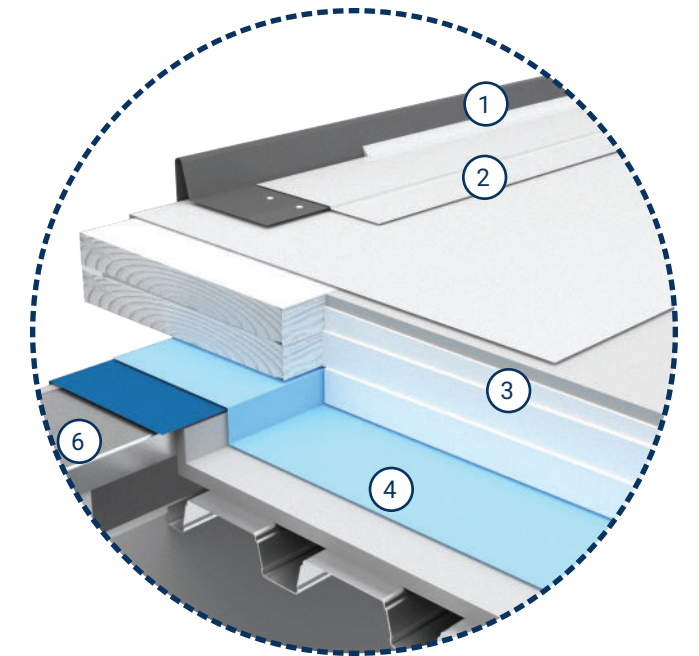
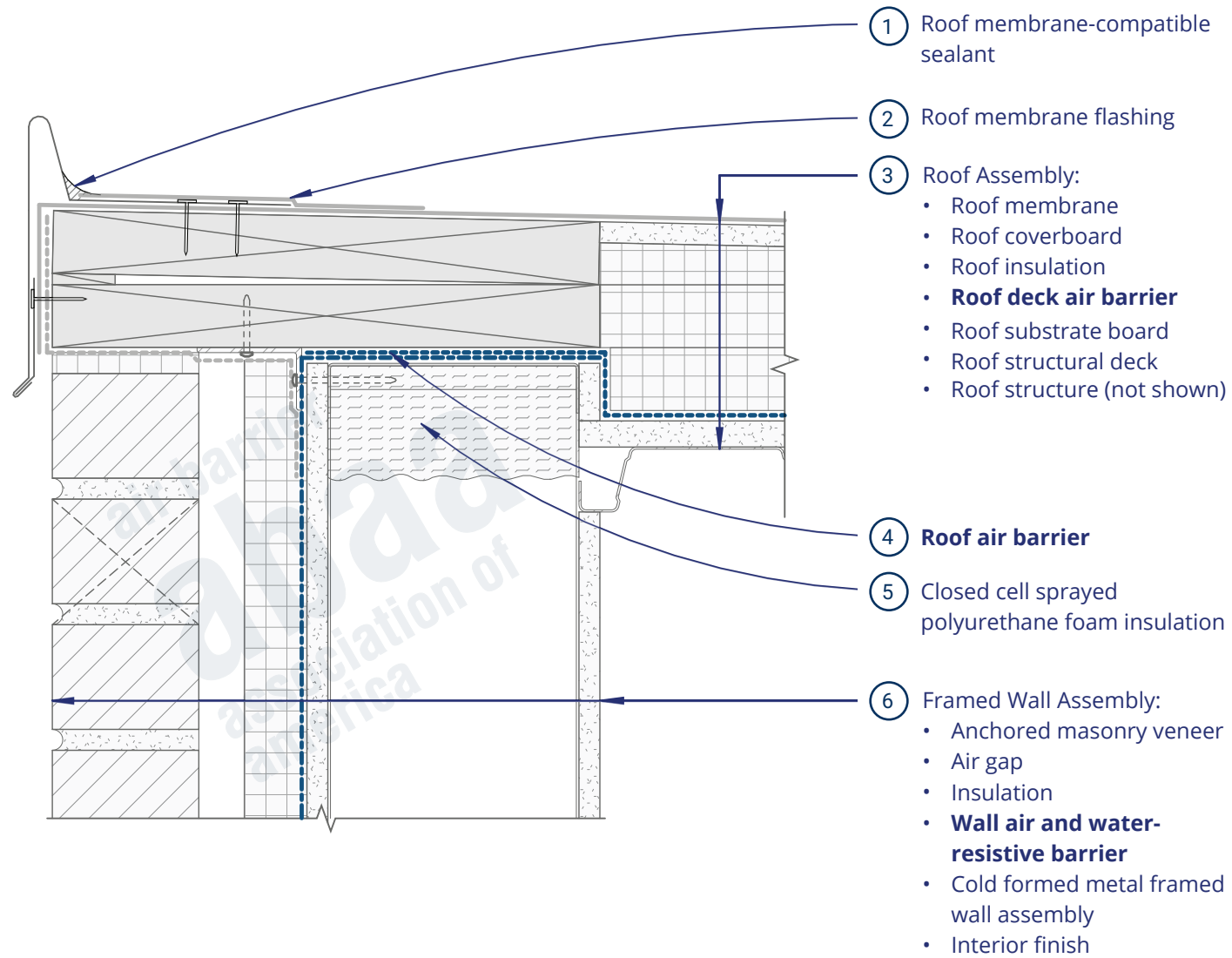


Exterior View

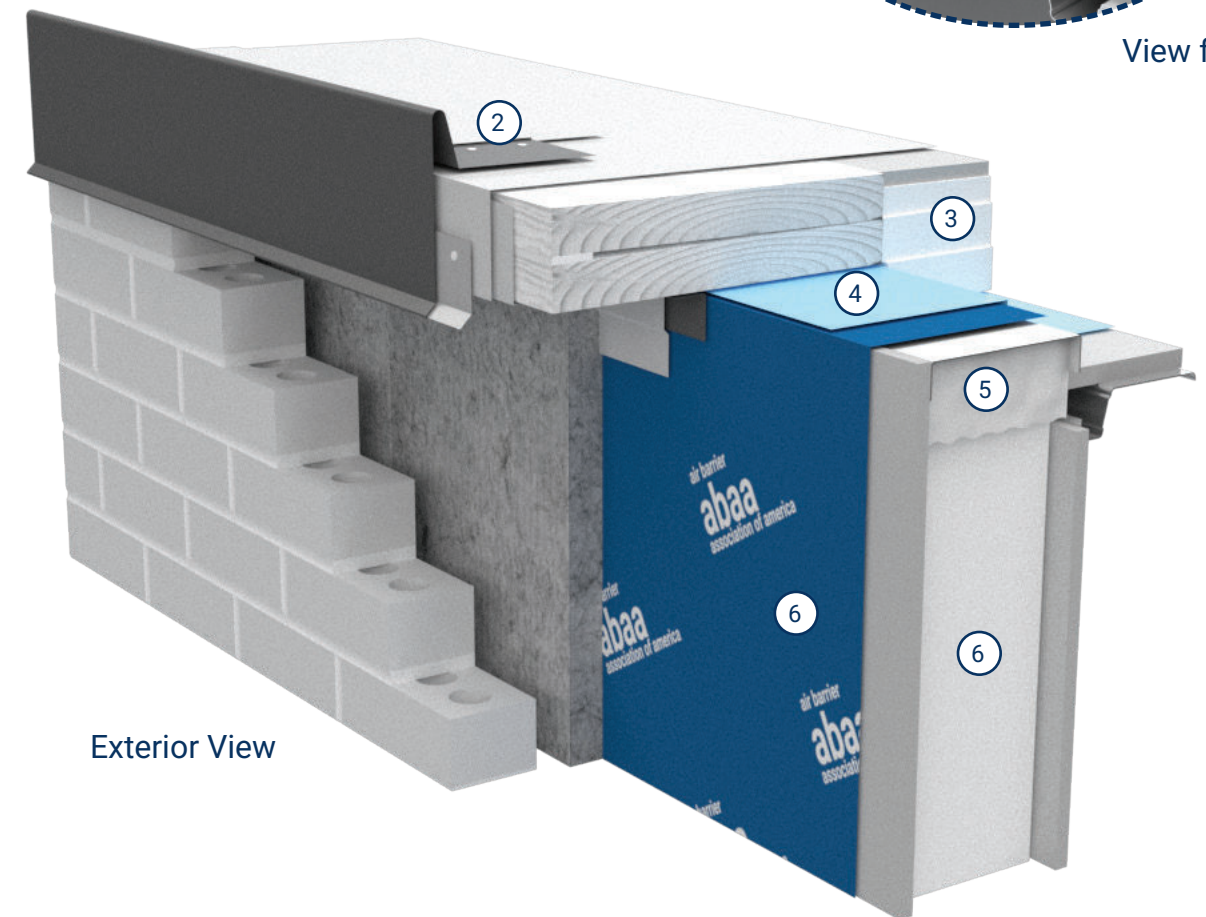
## Rainscreen Wall - Roof Edge Without Roof Deck Air Barrier (3D)

# Detail RS2

## Rainscreen Wall - Roof Edge With Roof Deck Air Barrier (2D)



View from Roof

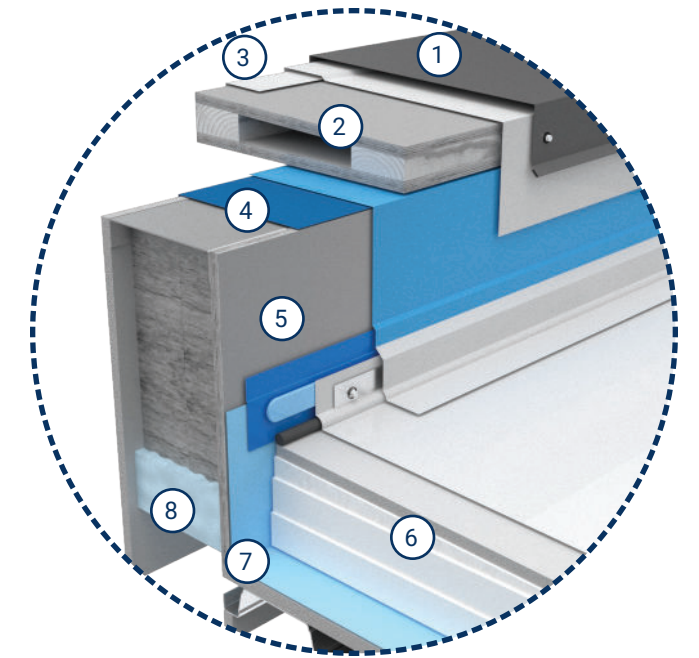
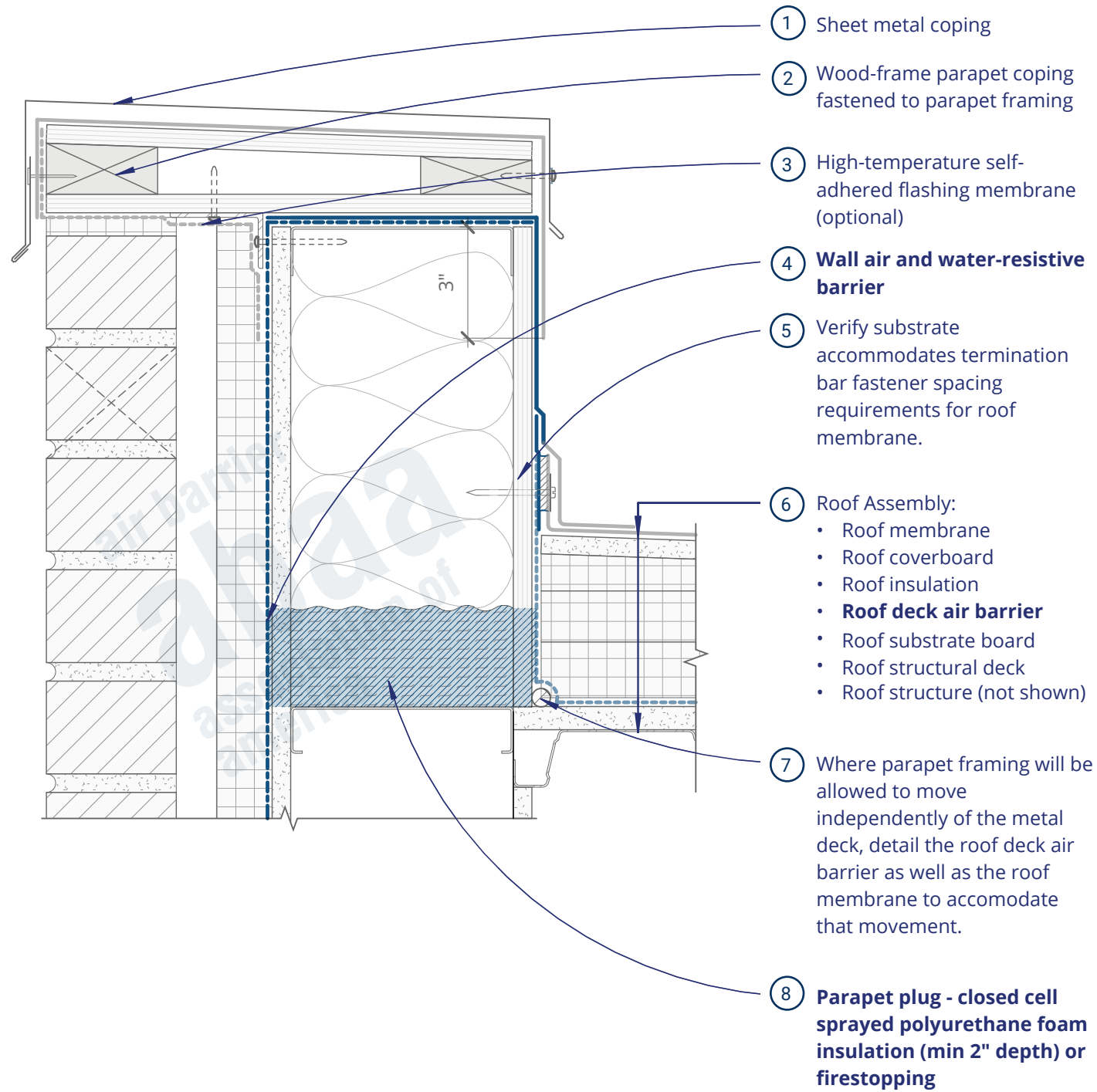


Exterior View

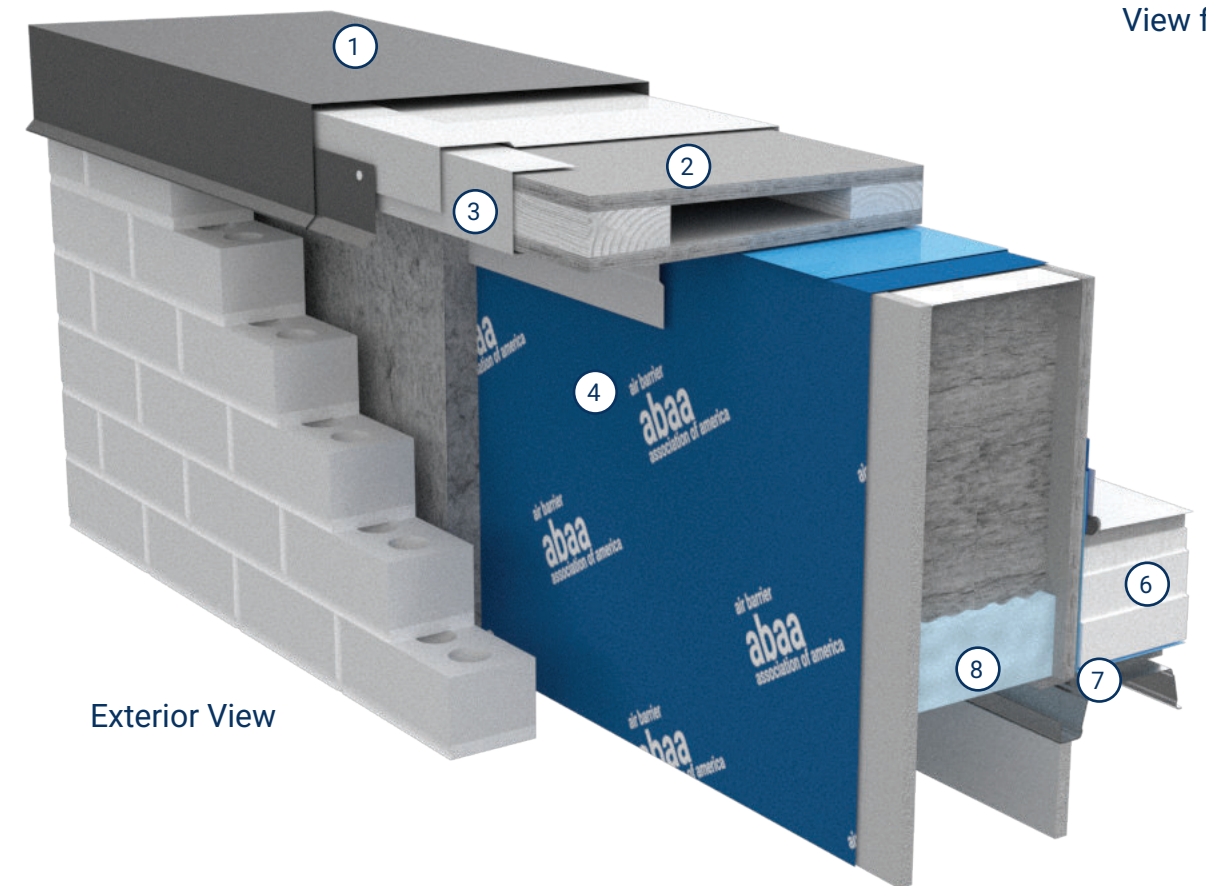
## Rainscreen Wall - Roof Edge With Roof Deck Air Barrier (3D)

# Detail RS3

## Rainscreen Wall - Parapet With Foam Insulation Base Plug at Deck (2D)



View from Roof

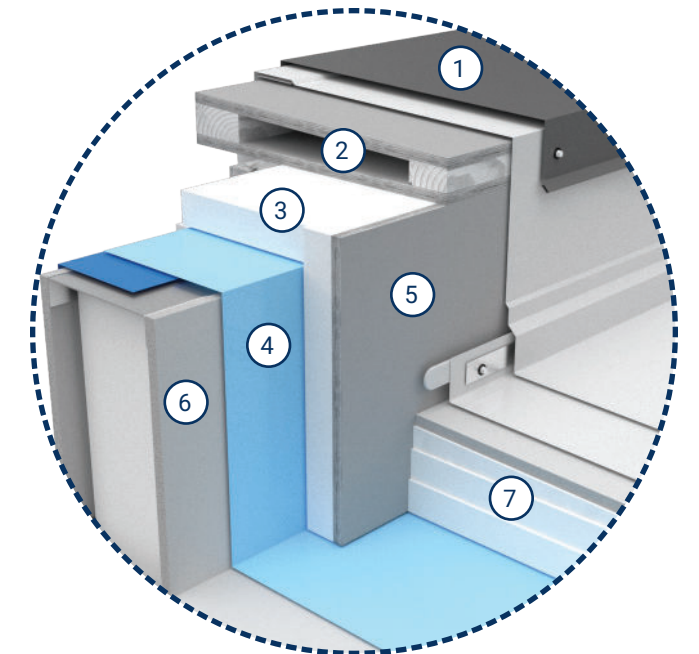
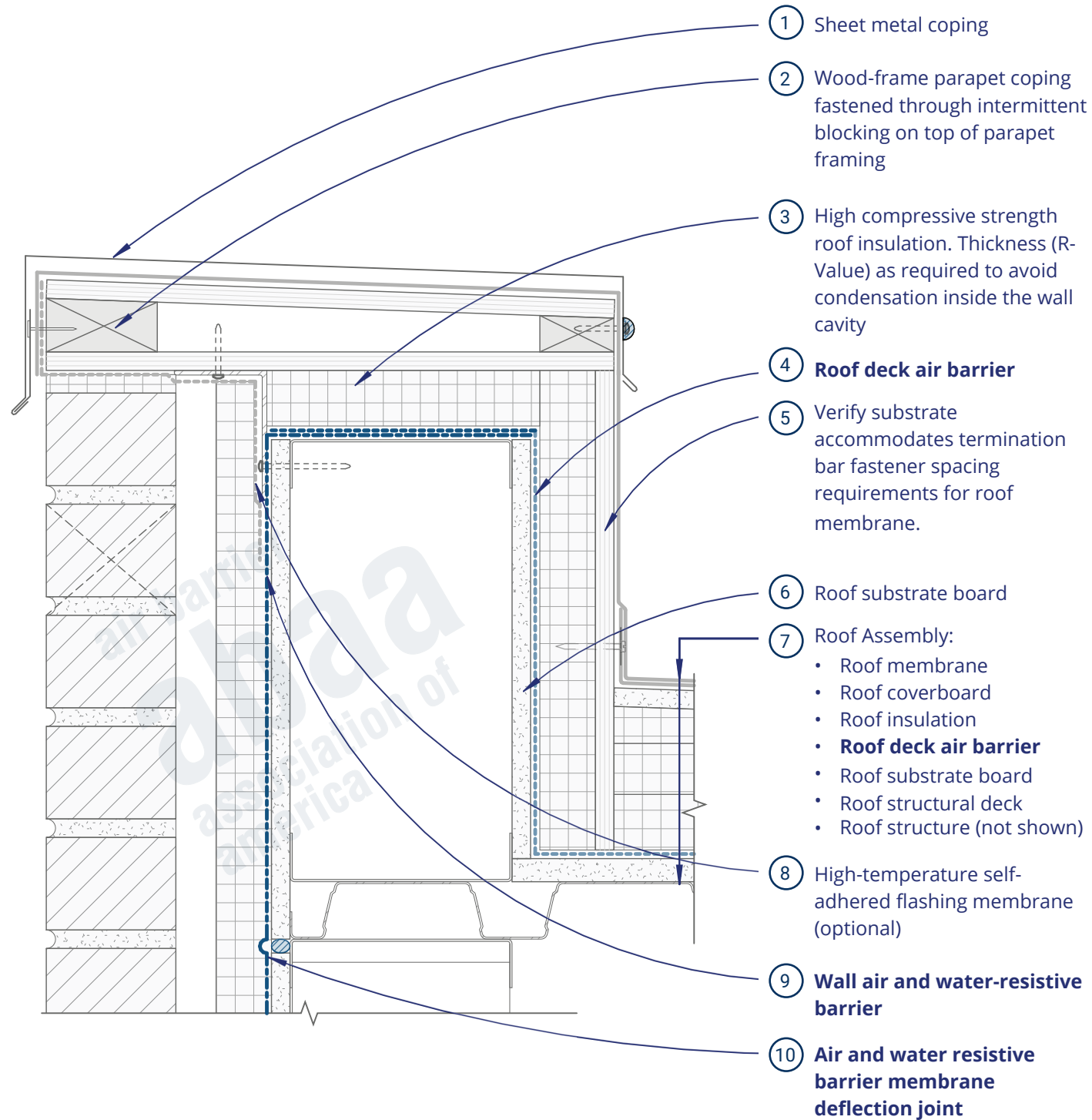


Exterior View

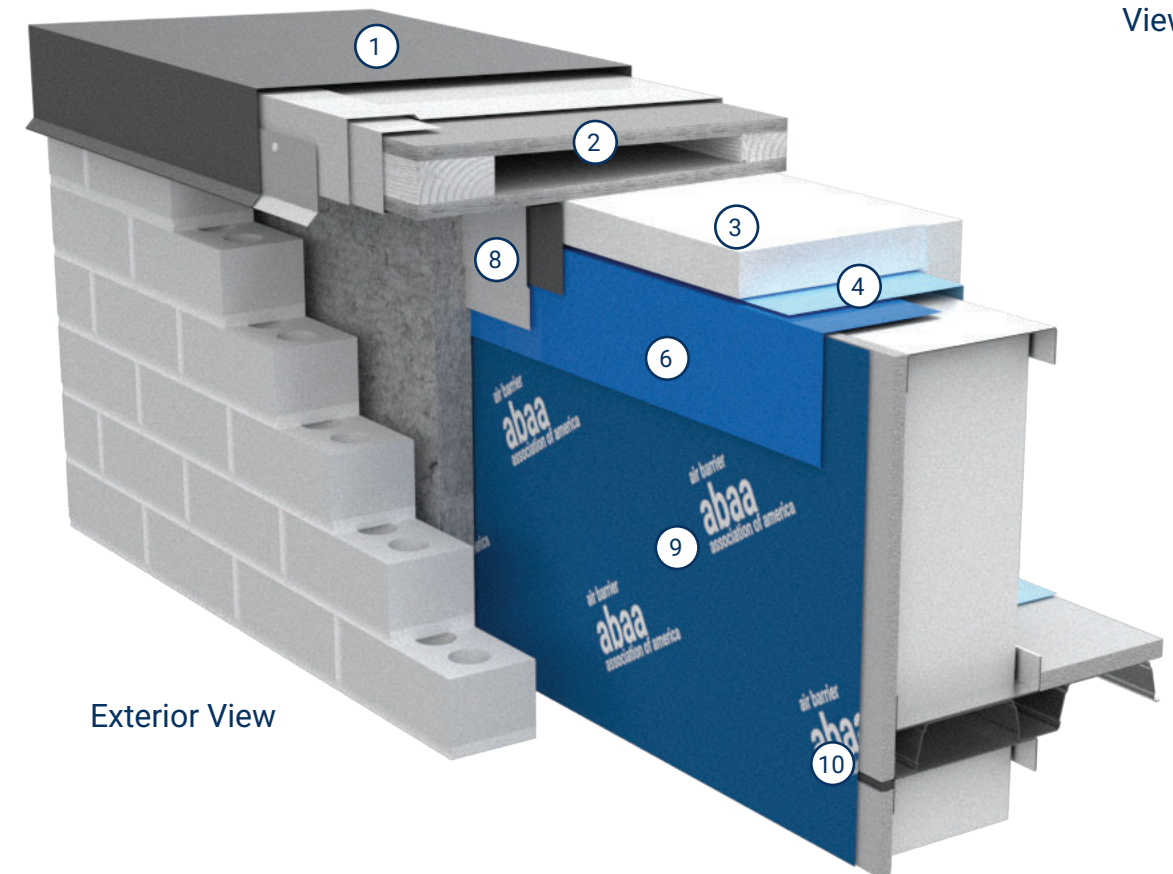
## Rainscreen Wall - Parapet With Foam Insulation Base Plug at Deck (3D)

# Detail RS4

## Rainscreen Wall - Parapet With Continuous Rigid Board Exterior Insulation (2D)



View from Roof

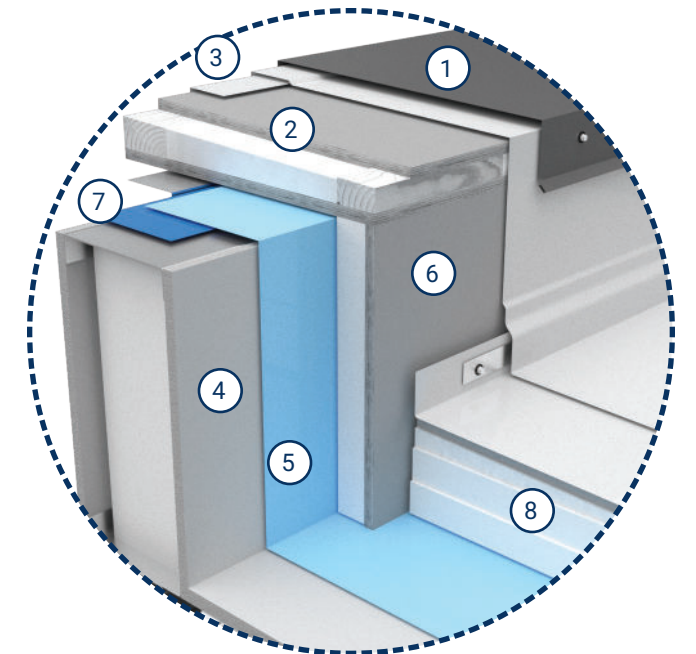
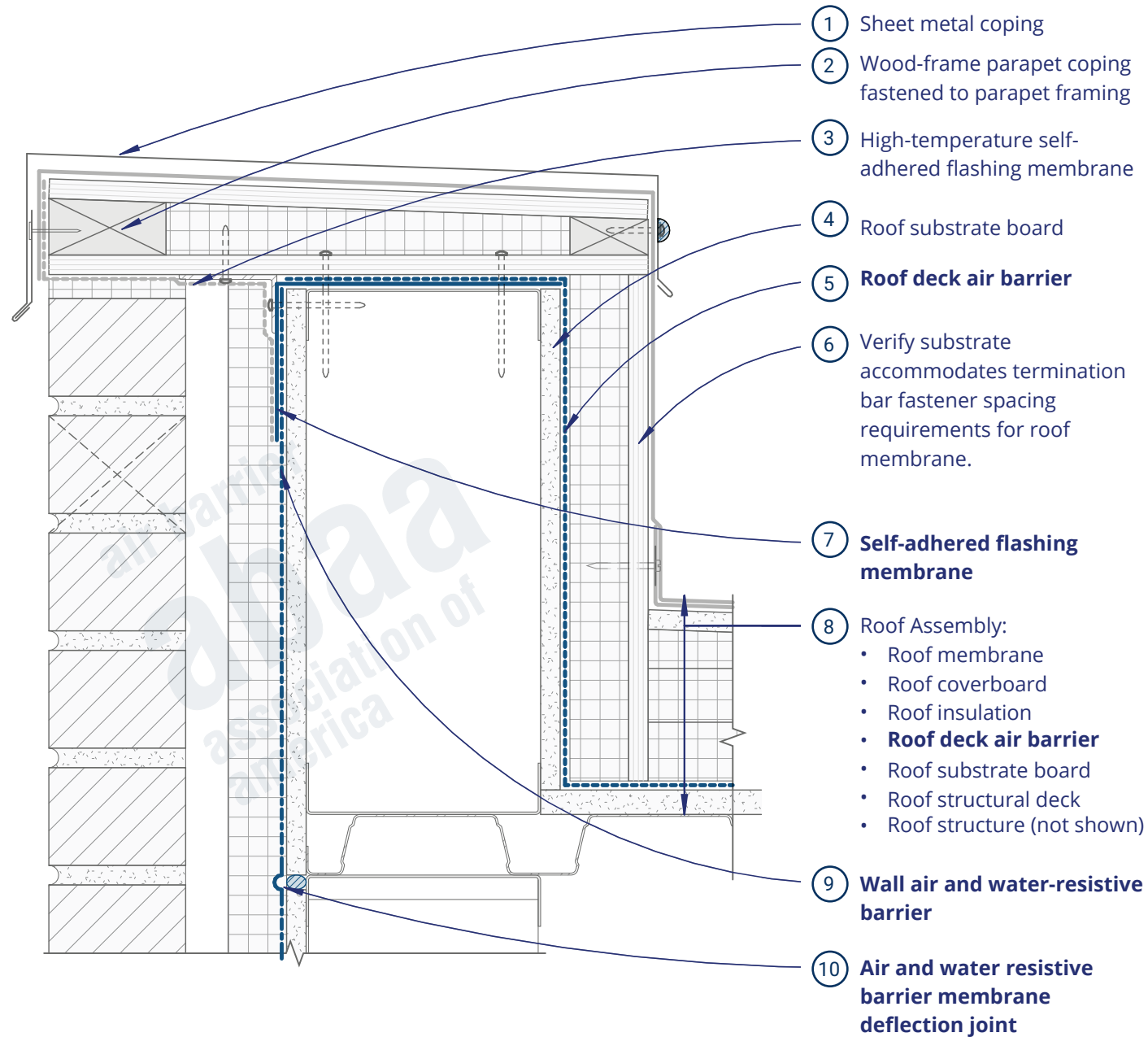


Exterior View

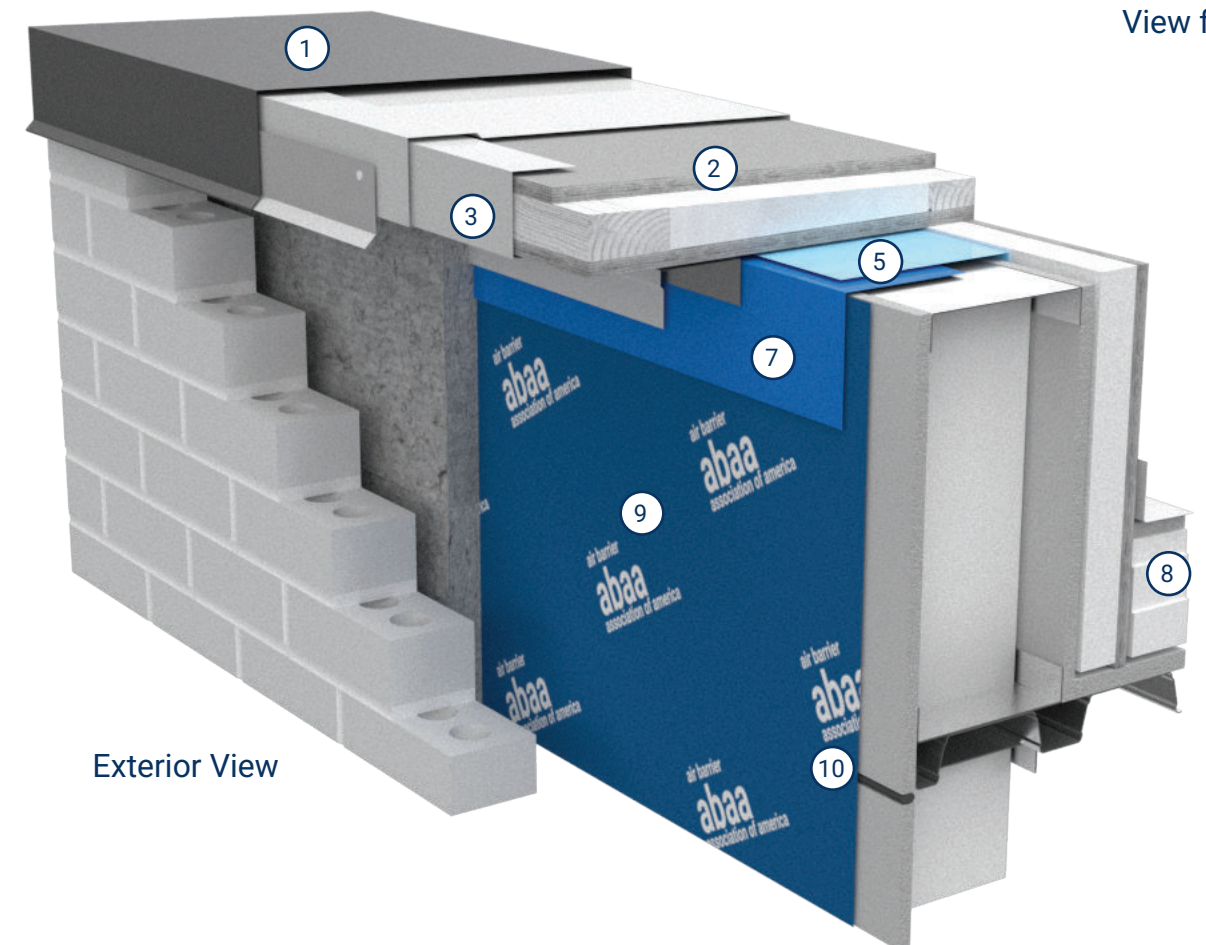
## Rainscreen Wall - Parapet With Continuous Rigid Board Exterior Insulation (3D)

# Detail RS5

## Rainscreen Wall - Parapet With Insulation within Coping Blocking Assembly (2D)



View from Roof

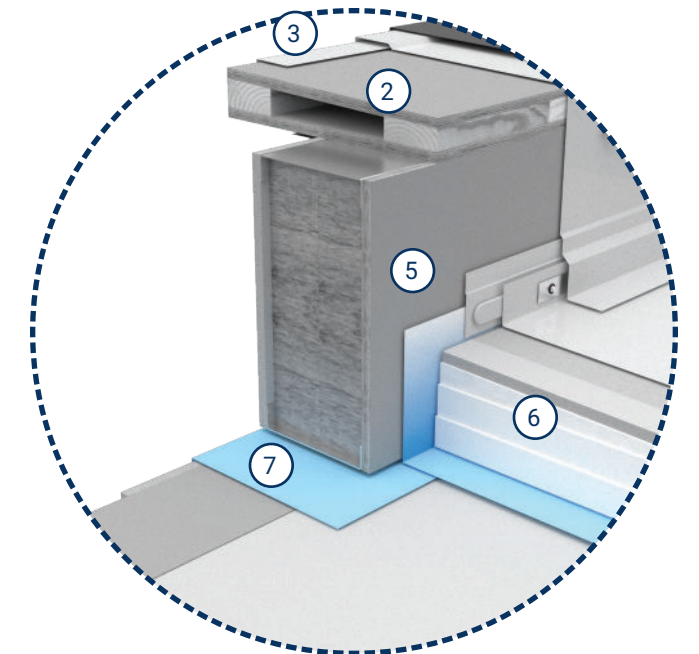
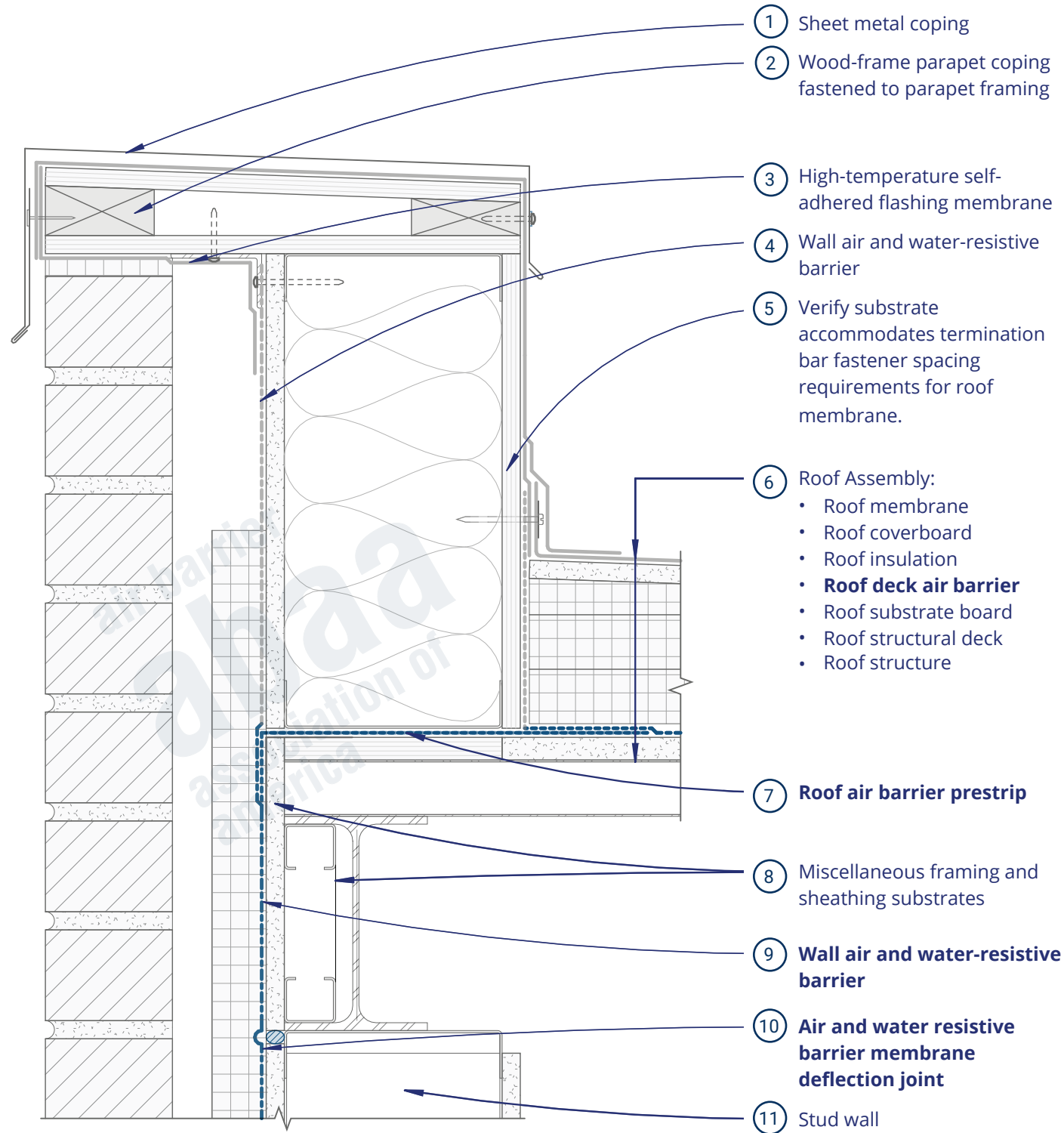


Exterior View

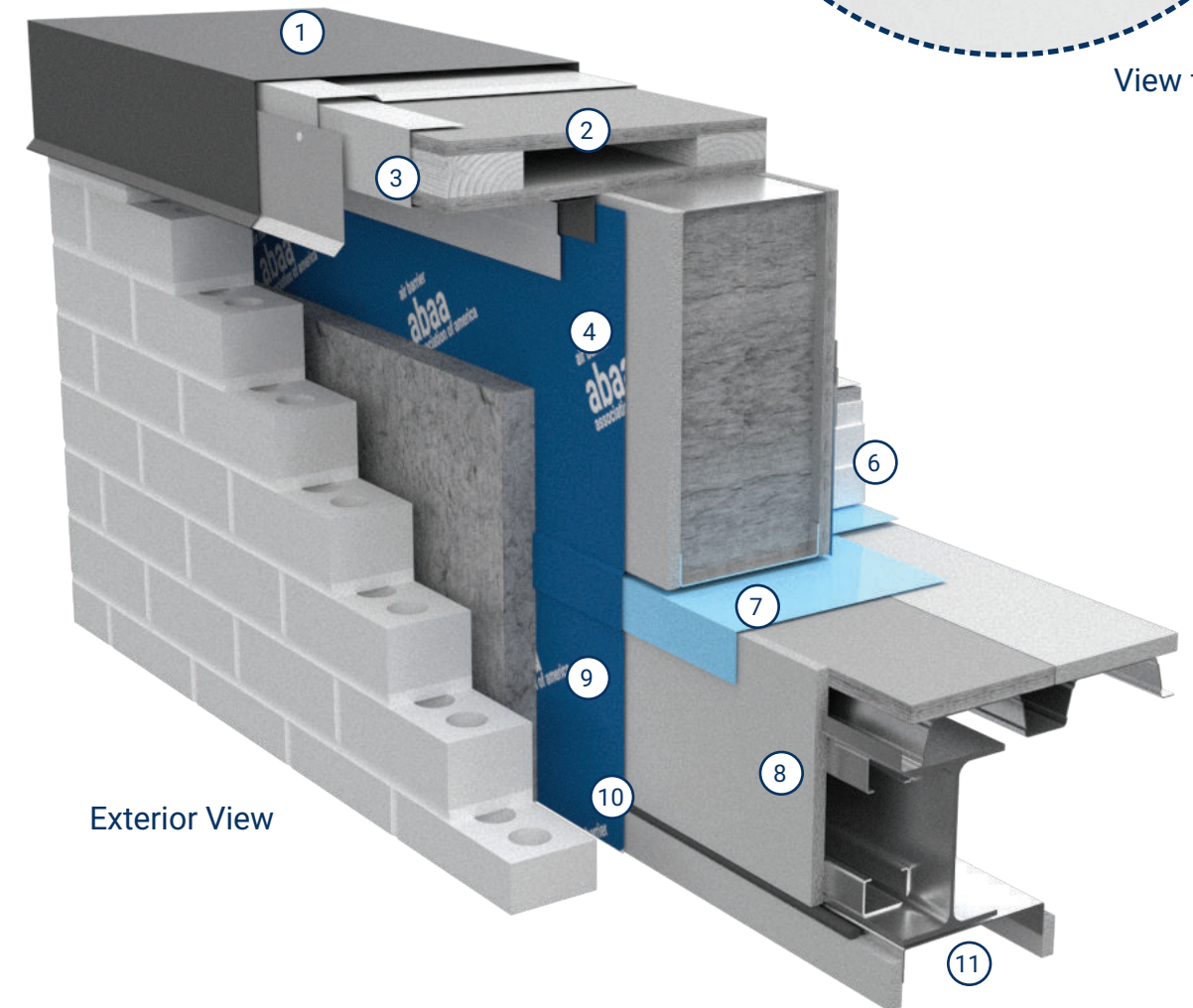
## Rainscreen Wall - Parapet With Insulation within Coping Blocking Assembly (3D)

# Detail RS6

## Rainscreen Wall - Roof Deck Air Barrier Prior to Parapet Extension Without Thermal Break (2D)



View from Roof

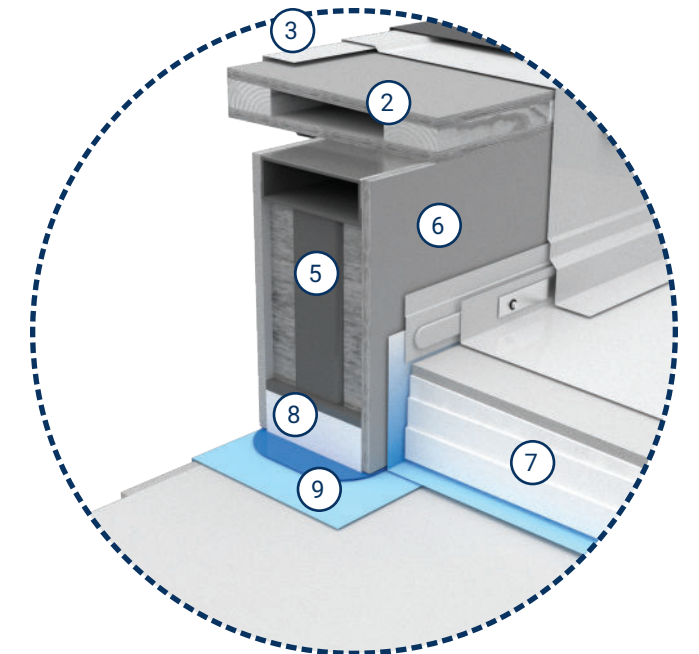
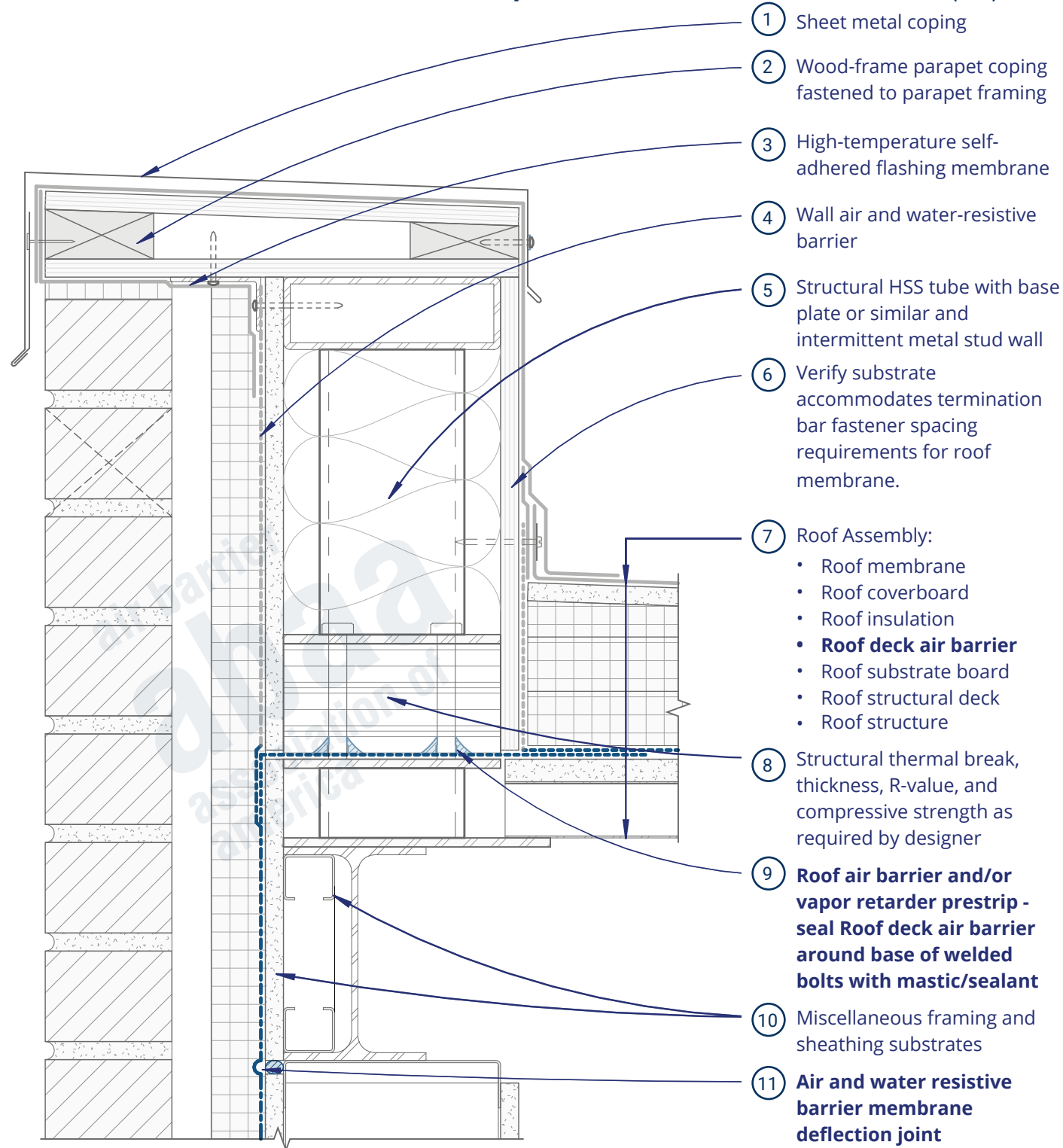


Exterior View

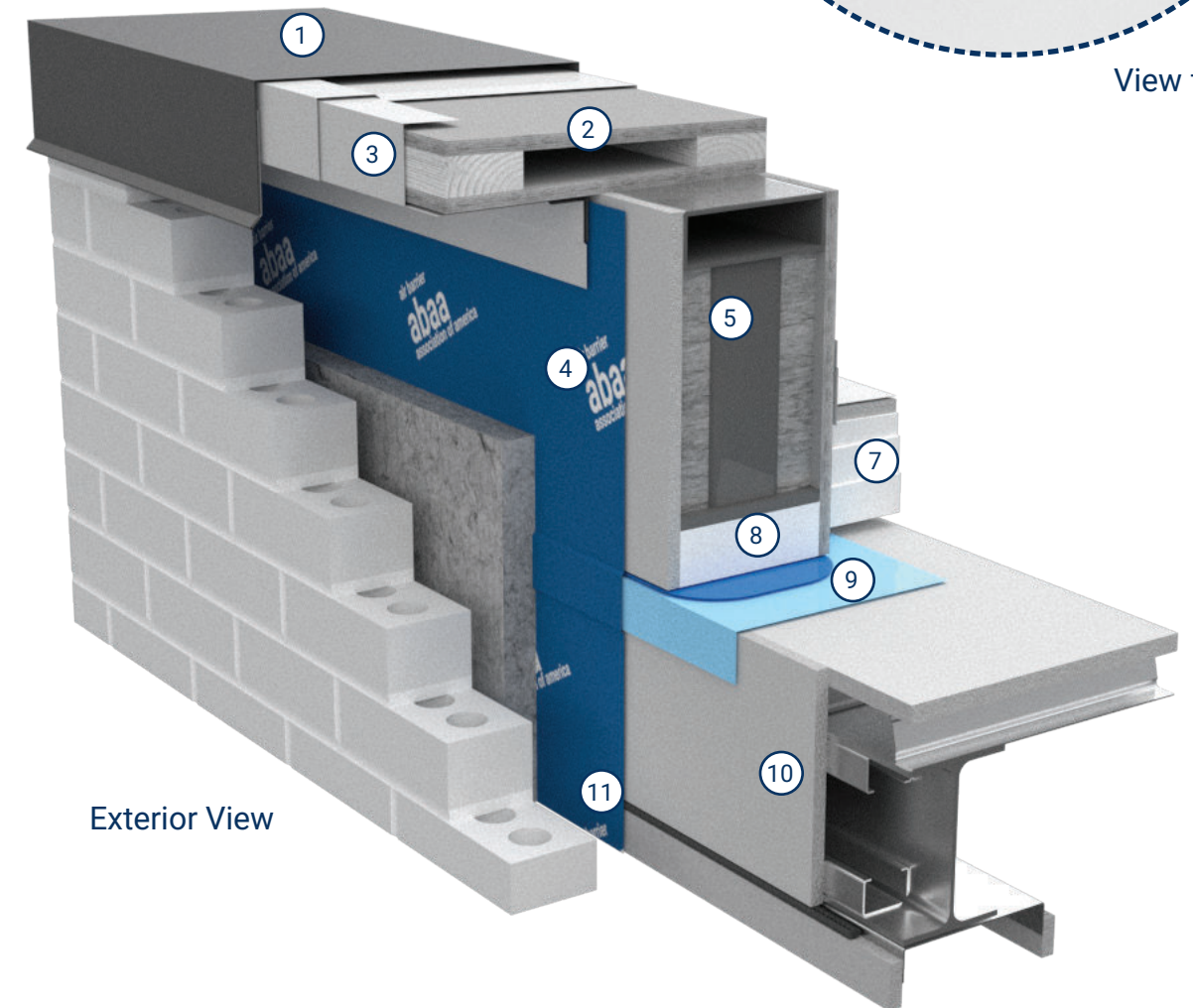
## Rainscreen Wall - Roof Deck Air Barrier Prior to Parapet Extension Without Thermal Break (3D)

# Detail RS8

## Rainscreen Wall - Deck Air Barrier Prior to Parapet Extension With Thermal Break (2D)



View from Roof

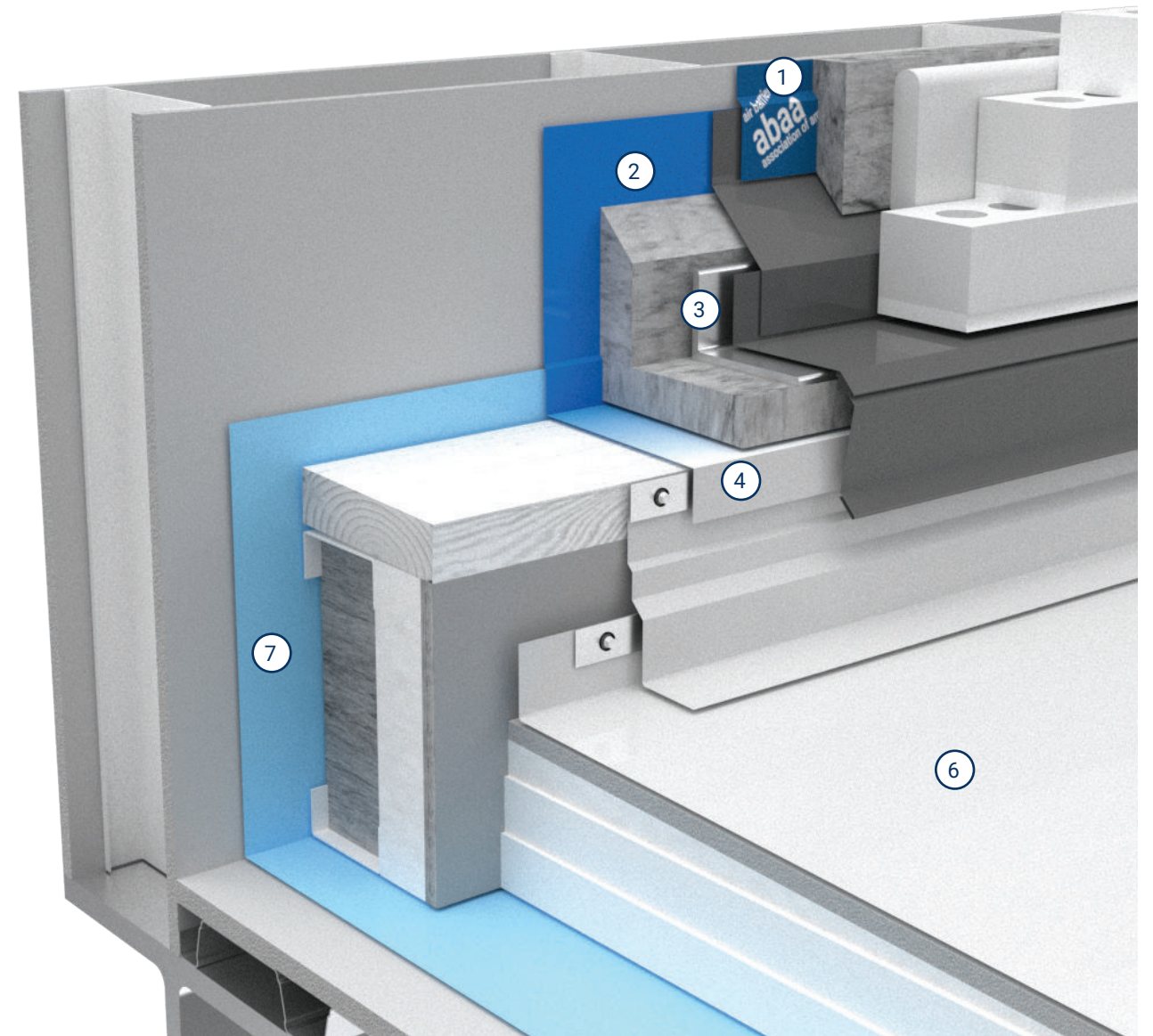
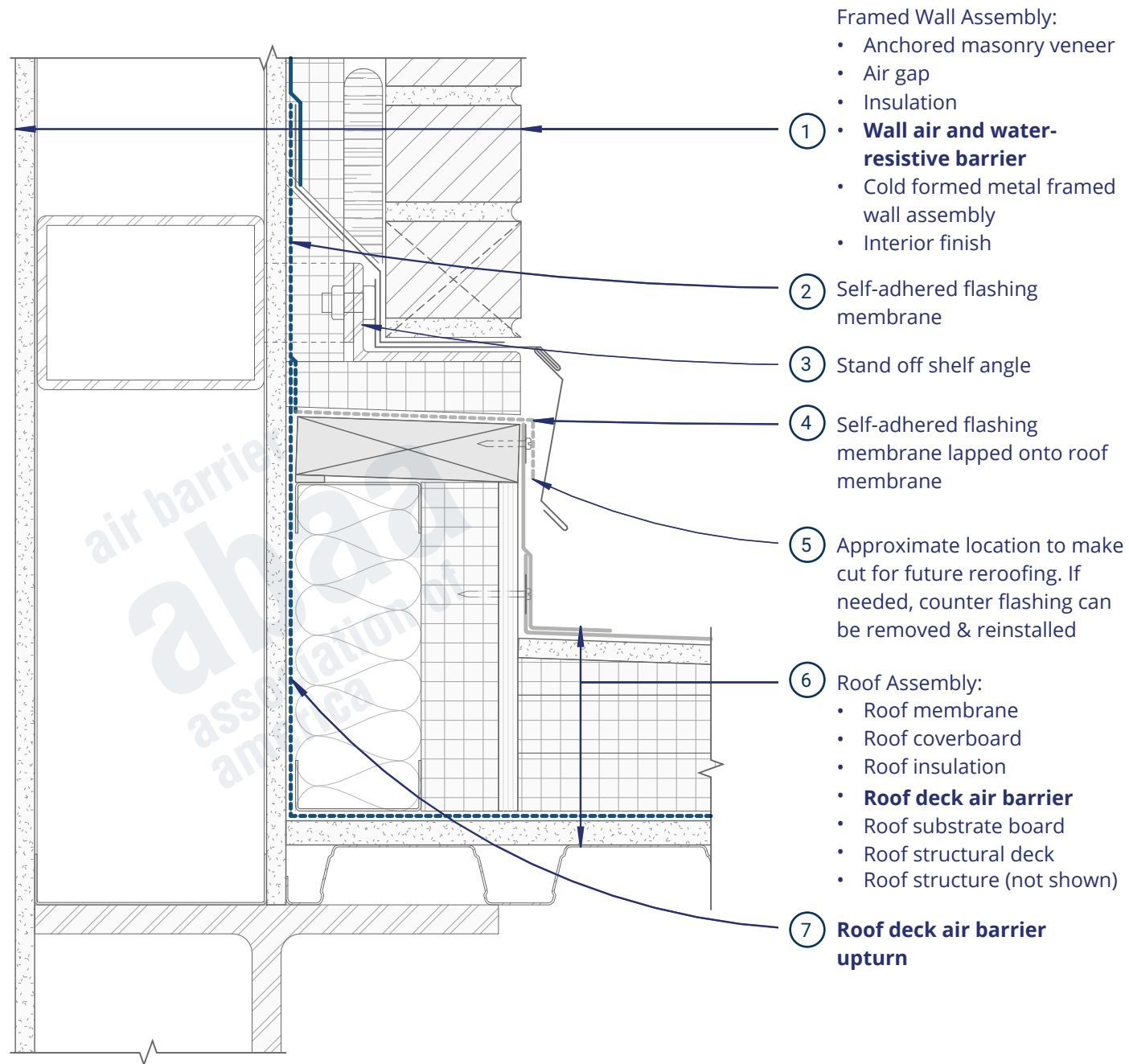


Exterior View

## Rainscreen Wall - Deck Air Barrier Prior to Parapet Extension With Thermal Break (3D)

# Detail RW1

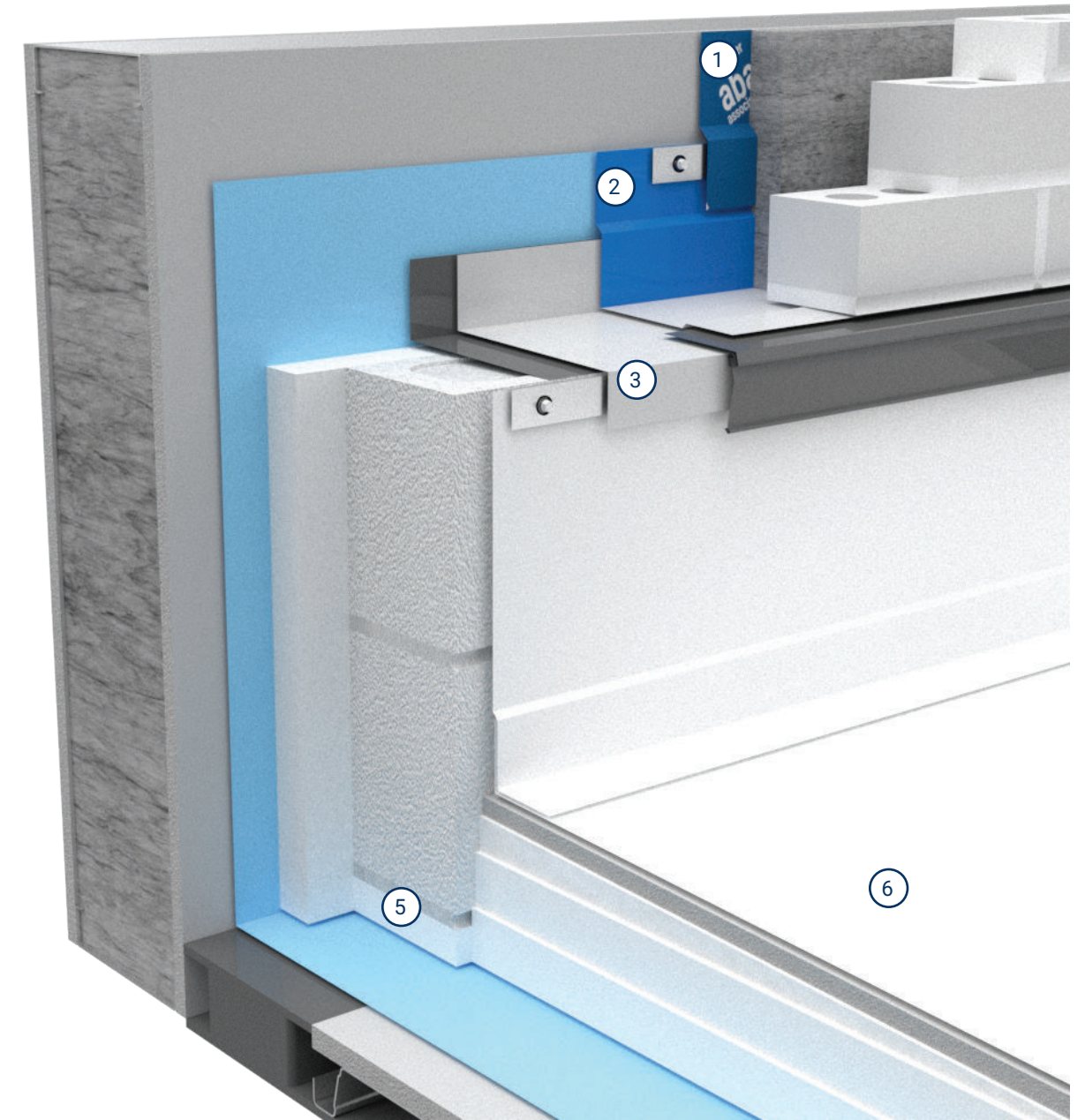
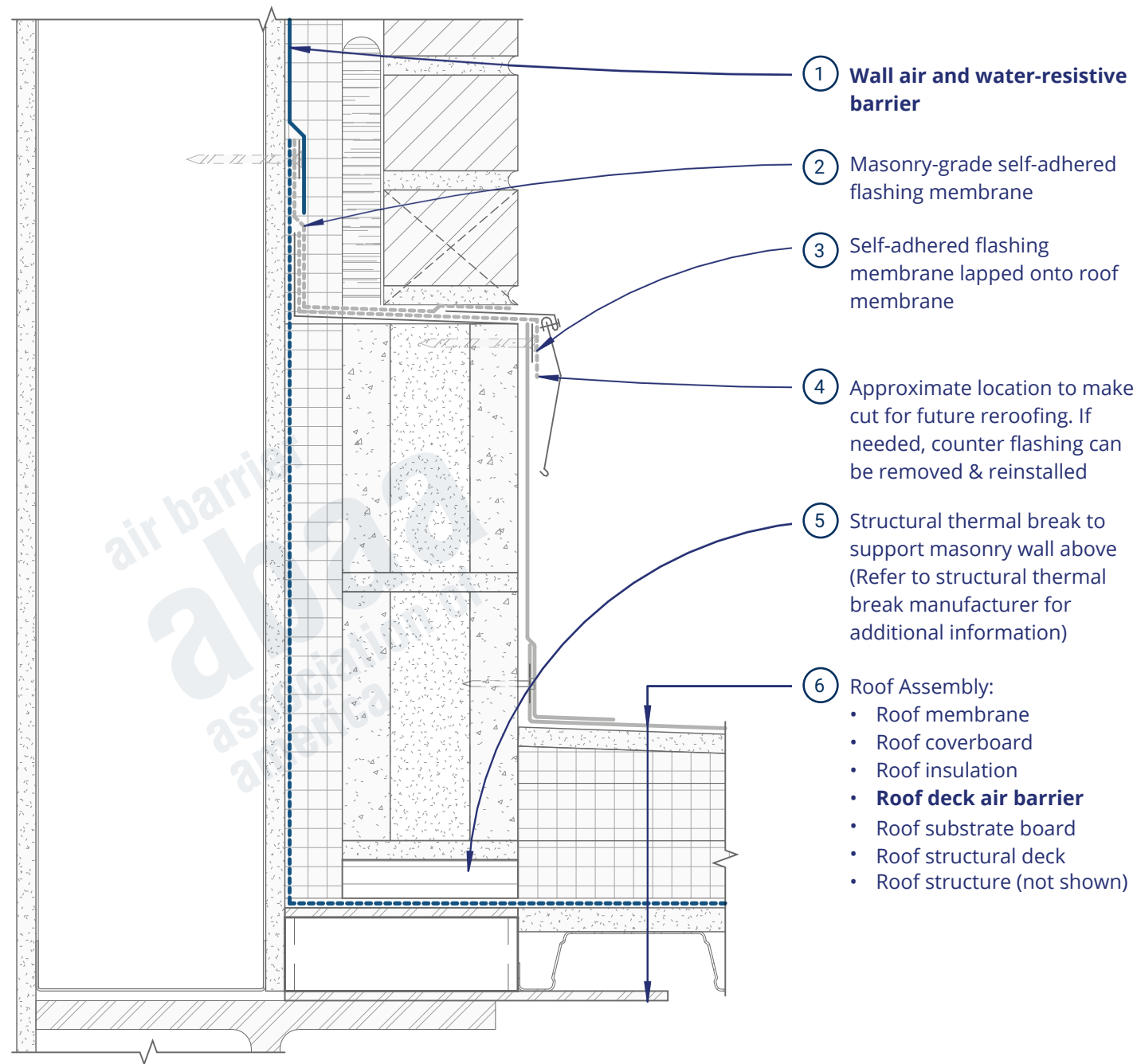
## Roof-to-Rising-Wall-Transition - Brick Shelf Angle With Standoff Clips (2D)



## Roof-to-Rising-Wall-Transition - Brick Shelf Angle With Standoff Clips (2D)

# Detail RW2

## Roof-to-Rising-Wall Transition - Structural Thermal Break (2D)



## Roof-to-Rising-Wall Transition - Structural Thermal Break (3D)