



Senergy[®]

Senerflex Vulcan NC System

Water Drainage Class PB Exterior Insulation and
Finish System Using Mineral Wool Insulation

Typical Details

A brand of
MASTER[®]
» BUILDERS
SOLUTIONS

Senerflex Vulcan NC System

Typical Details

Water Drainage Class PB Exterior Insulation and Finish System Using Mineral Wool Insulation

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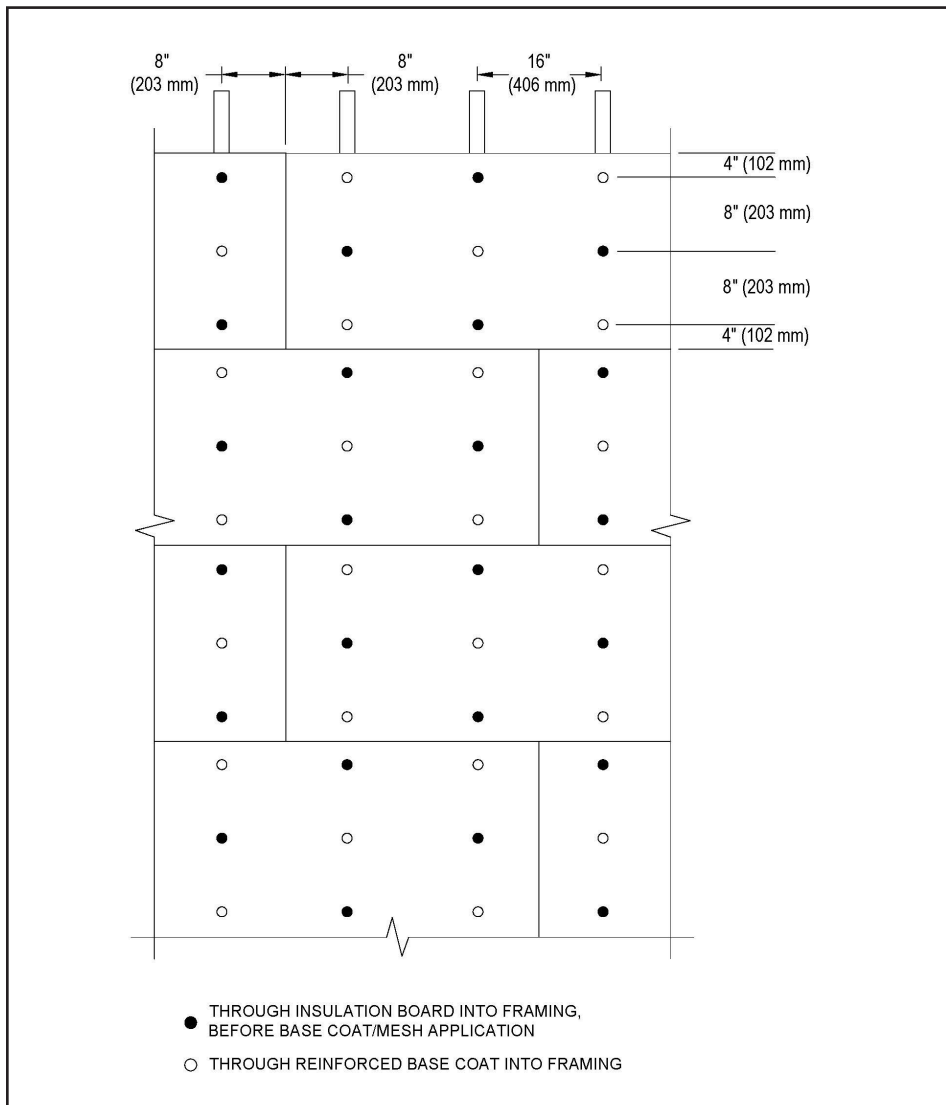
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Notes:

- **Install Master Builders Solutions materials in accordance with current installation instructions.**
- **Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Master Builders Solutions products.**
- **The details within represent Master Builders Solutions Construction Systems US, LLC (hereinafter Master Builders Solutions) latest recommendations. They are presented in good faith by Master Builders Solutions. The details are subject to change without notice. Master Builders Solutions accepts no liability for the end use of the details. For conditions not shown, consult Master Builders Solutions for review of specific detail.**

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Senerflex Vulcan NC System TYPICAL MINERAL WOOL FASTENER PATTERN



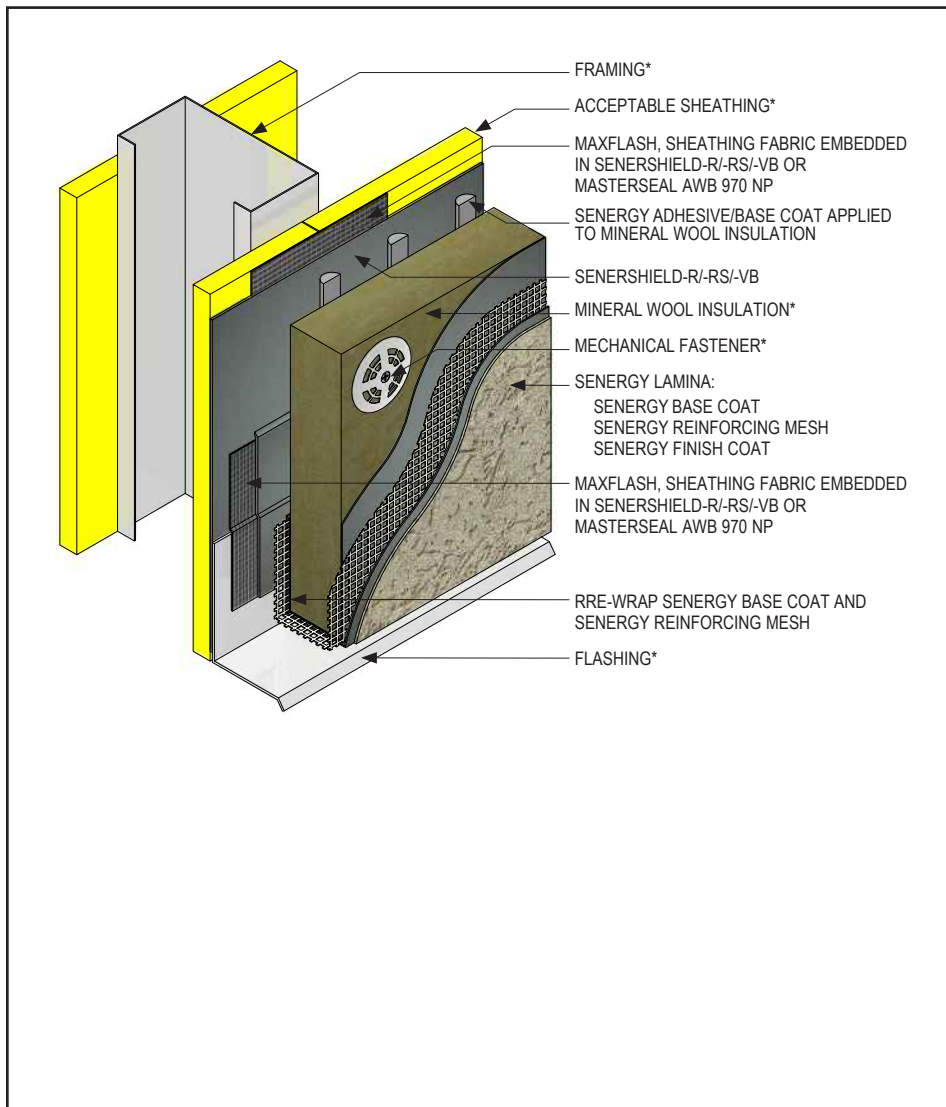
- Verify all materials are installed in accordance with current installation instructions.
- Additional fasteners may be required at corners or other terminations.
- Ensure a means for drainage is provided at System termination.
- Fasteners installed on the outside of the reinforced base coat should be spotted prior to application of final base coat.
- 9 fasteners per 2'x4' insulation board.
- Use Wind-lock ULP-302 plates with fastener appropriate to insulation thickness and structure type.
- Allow adhesive to dry before installing fasteners.
- Install 4 fasteners per board after adhesive application of insulation board; install remaining 5 fasteners per board after the installation of reinforced base coat.
- Do not overdrive fasteners, washer should sit flush with face of insulation board/reinforced base coat or slightly (1/16") recessed.

VNC-01 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL APPLICATION



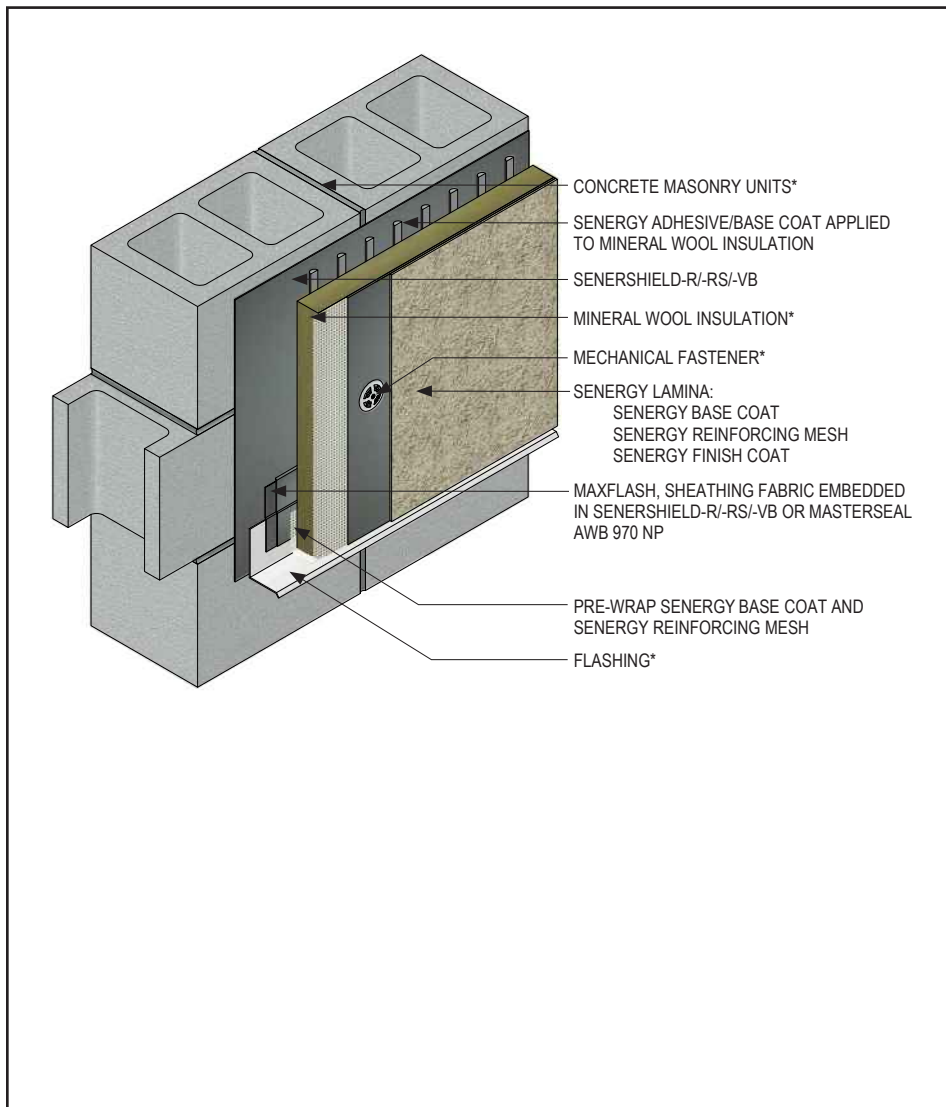
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at System termination.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.

VNC-02 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL APPLICATION OVER CMU



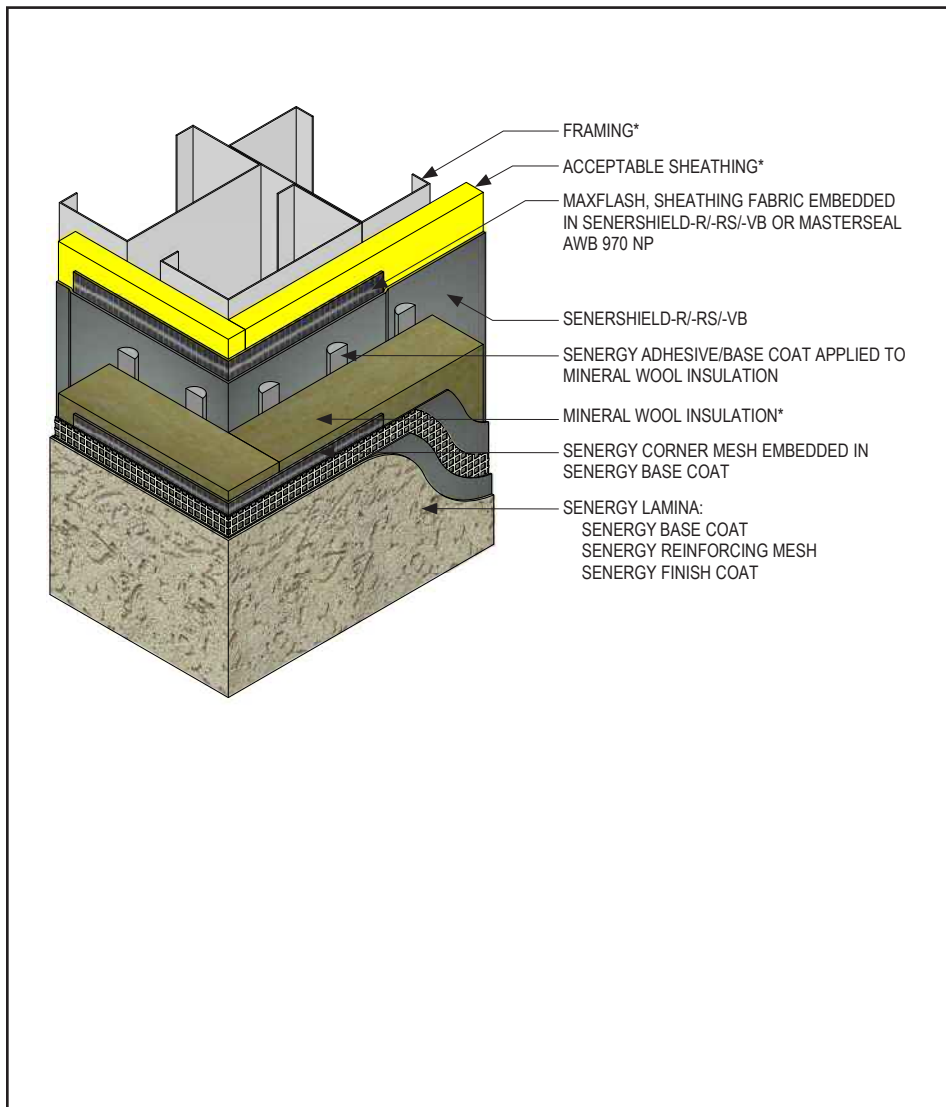
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at System termination.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.

VNC-03 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL CORNER MESH APPLICATION WITH FLEXGUARD 4, INTERMEDIATE 6 OR 12



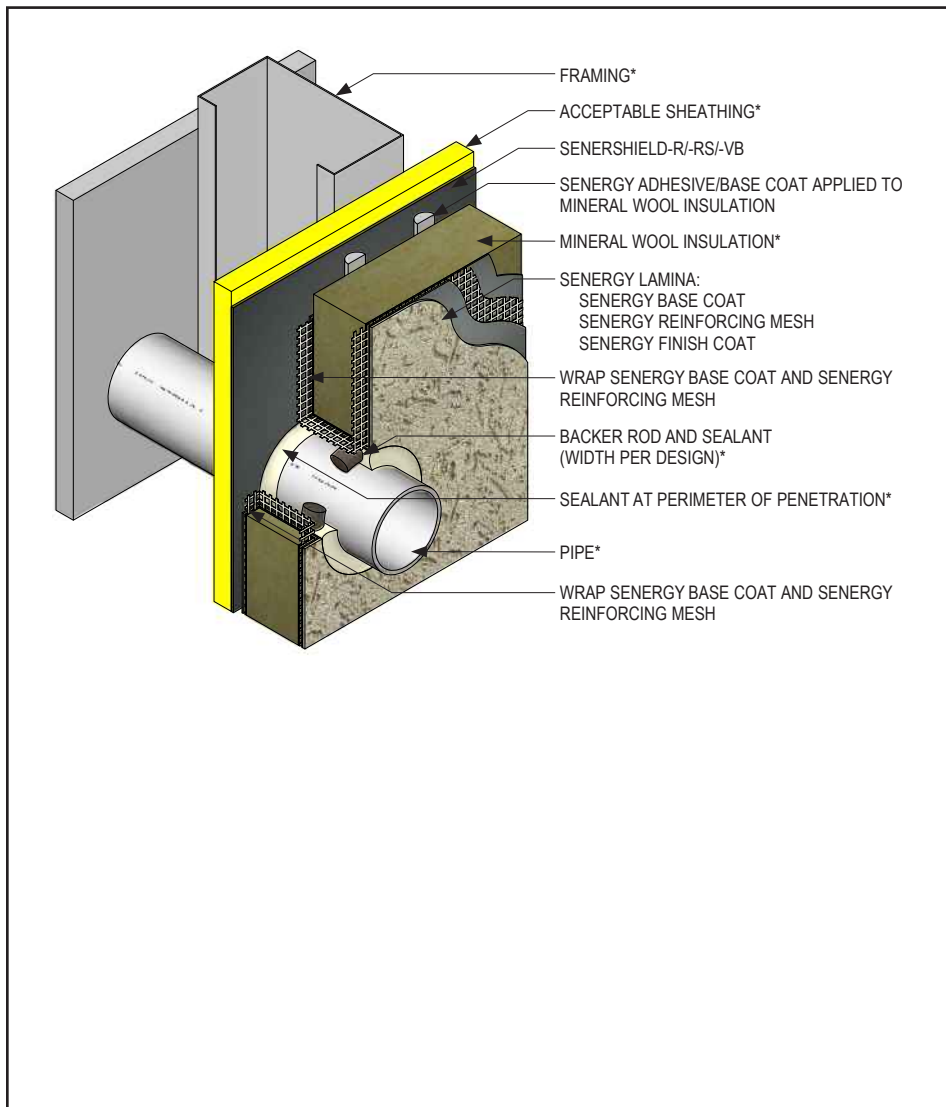
- Verify all materials are installed in accordance with current installation instructions.
- Ensure Flexguard 4, Intermediate 6 or 12 reinforcing mesh is lapped a minimum of 8" (203 mm) around corners.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Provide fasteners into structure at corners.

VNC-04 2209

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Senerflex Vulcan NC System TYPICAL PIPE PENETRATION



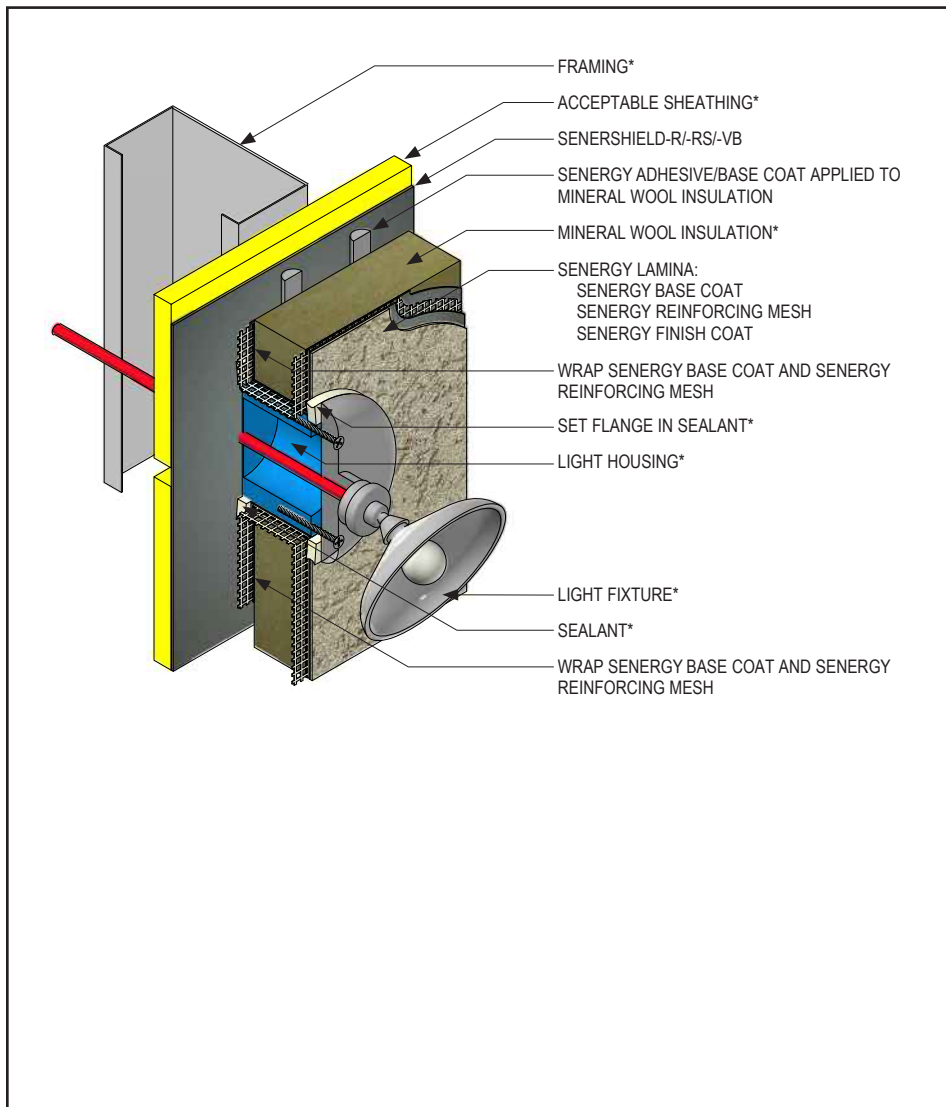
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure all penetrations into the system are properly sealed.
- Provide continuous seal around perimeter of penetration prior to mineral wool insulation application.
- Do not apply finish to areas that will receive sealant.

VNC-05 2209

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Senerflex Vulcan NC System TYPICAL LIGHT FIXTURE



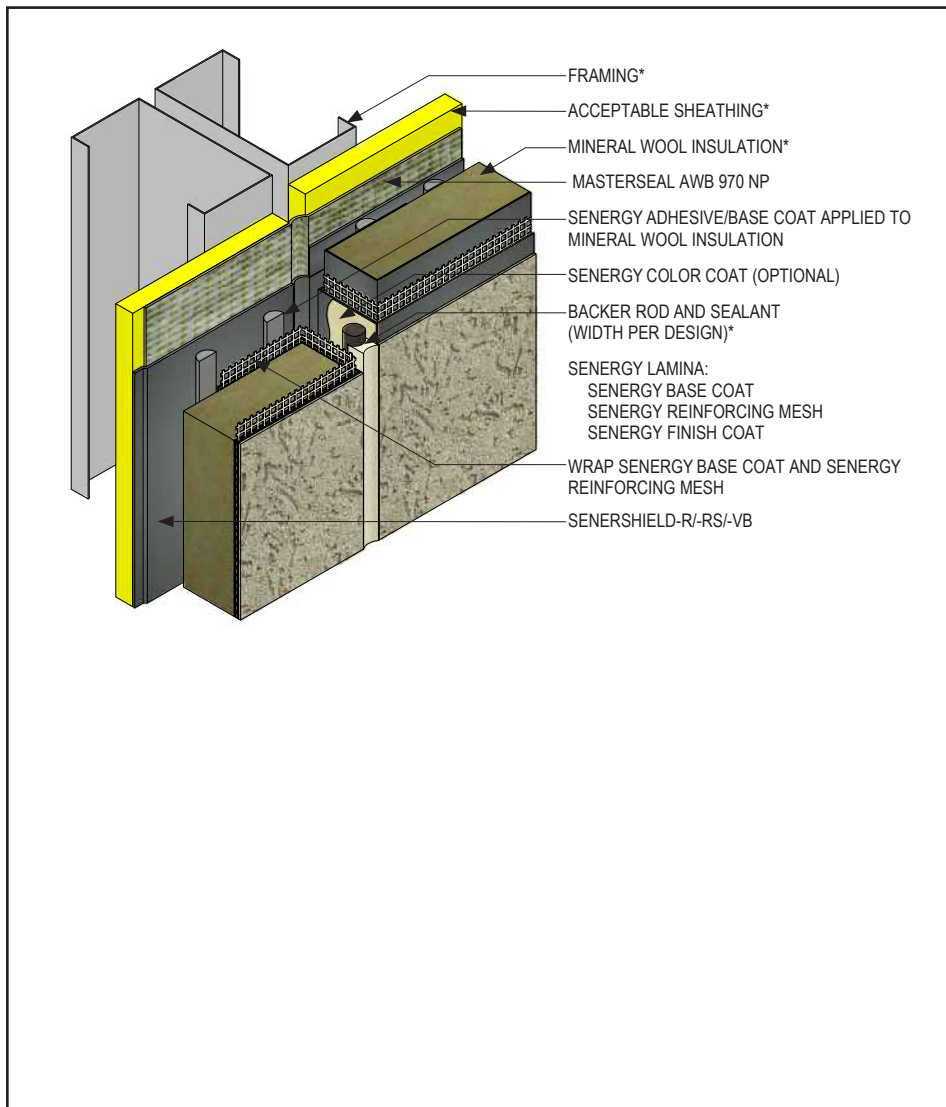
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure all penetrations into the system are properly sealed.
- Provide continuous seal around perimeter of penetration prior to mineral wool insulation application.
- Do not apply finish to areas that will receive sealant.

VNC-06 2209

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Senerflex Vulcan NC System TYPICAL EXPANSION JOINT



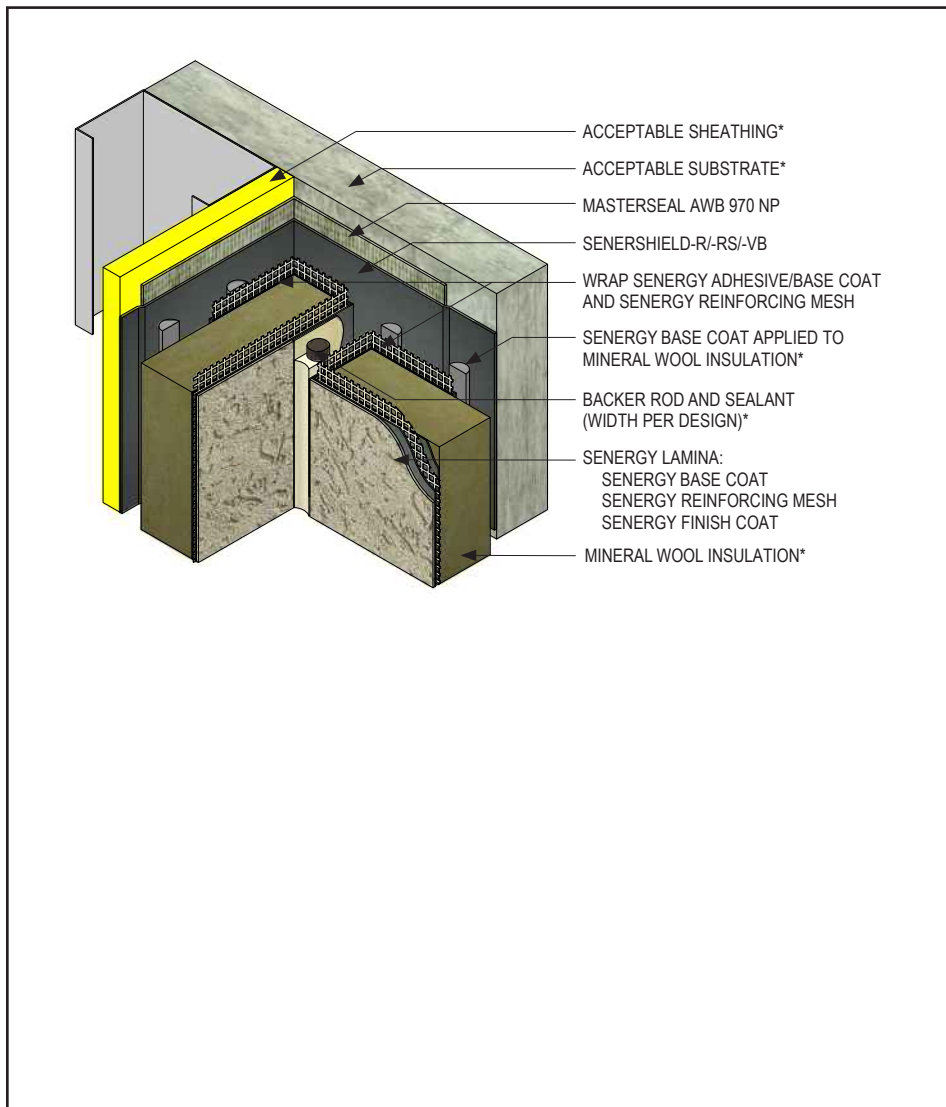
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Do not apply finish to areas that will receive sealant.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- Provide sufficient slack in MasterSeal AWB 970 NP at expansion joint to allow for movement.

VNC-07 2209

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Senerflex Vulcan NC System TYPICAL EXPANSION JOINT AT CHANGE IN SUBSTRATE



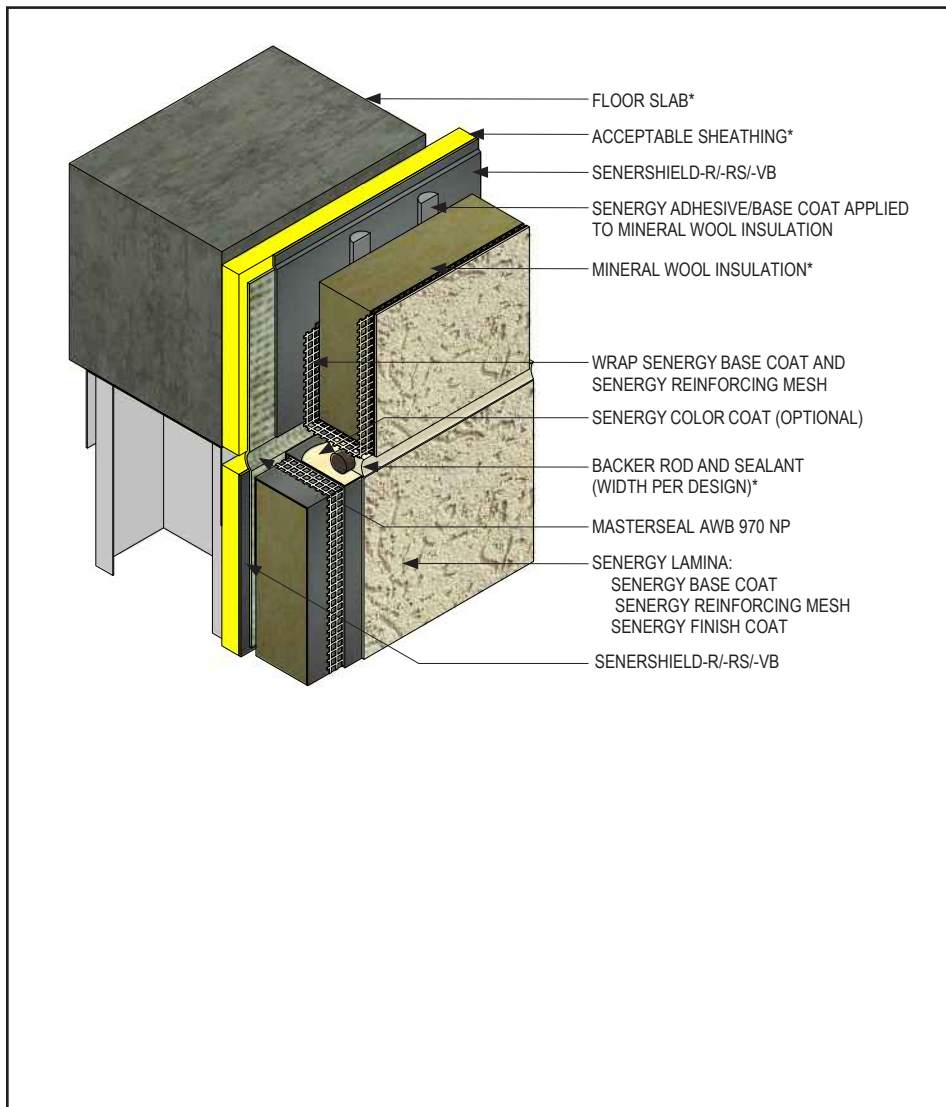
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Do not apply finish to areas that will receive sealant.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.

VNC-08 2209

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Senerflex Vulcan NC System TYPICAL EXPANSION JOINT AT FLOORLINE



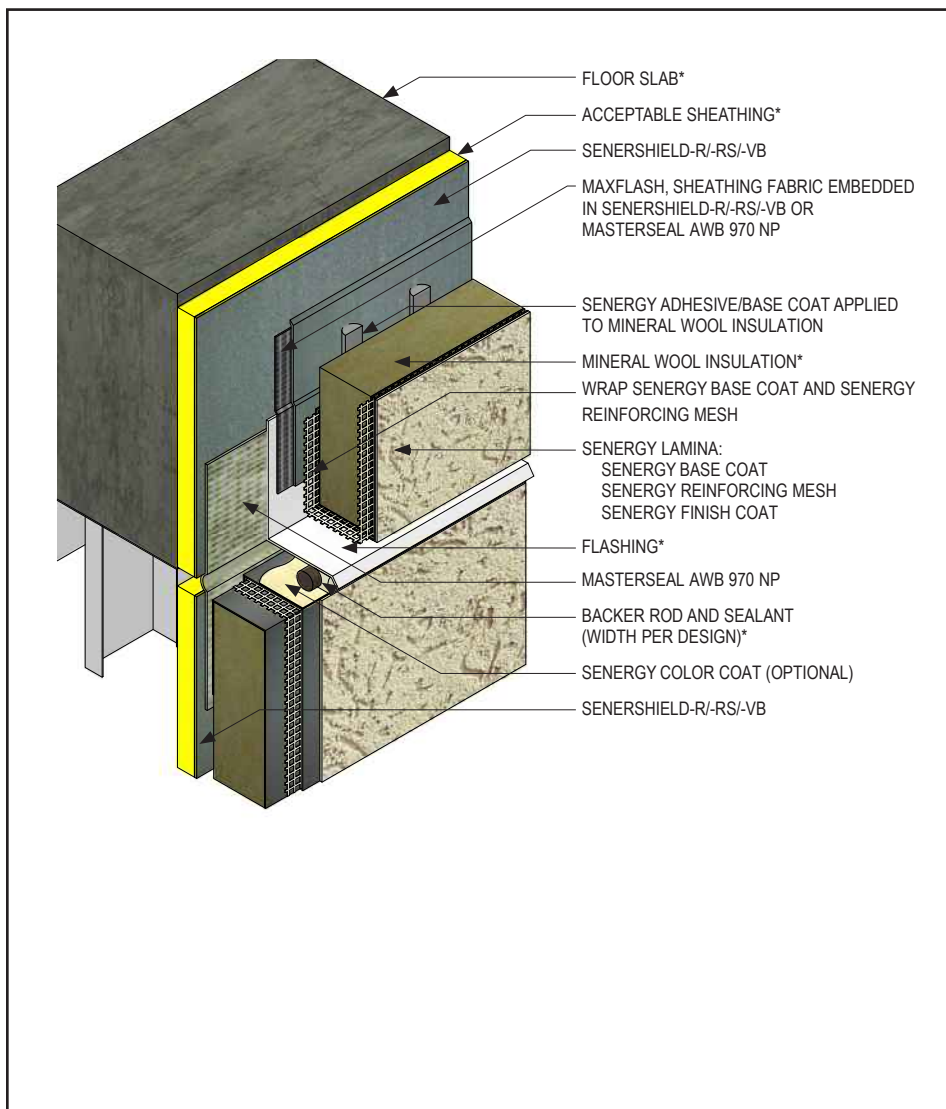
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Do not apply finish to areas that will receive sealant.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- It is recommended that a means for drainage is provided at every third floor (See Detail VNC-10).
- Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

VNC-09 2209

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Senerflex Vulcan NC System TYPICAL DRAINAGE AT FLOORLINE



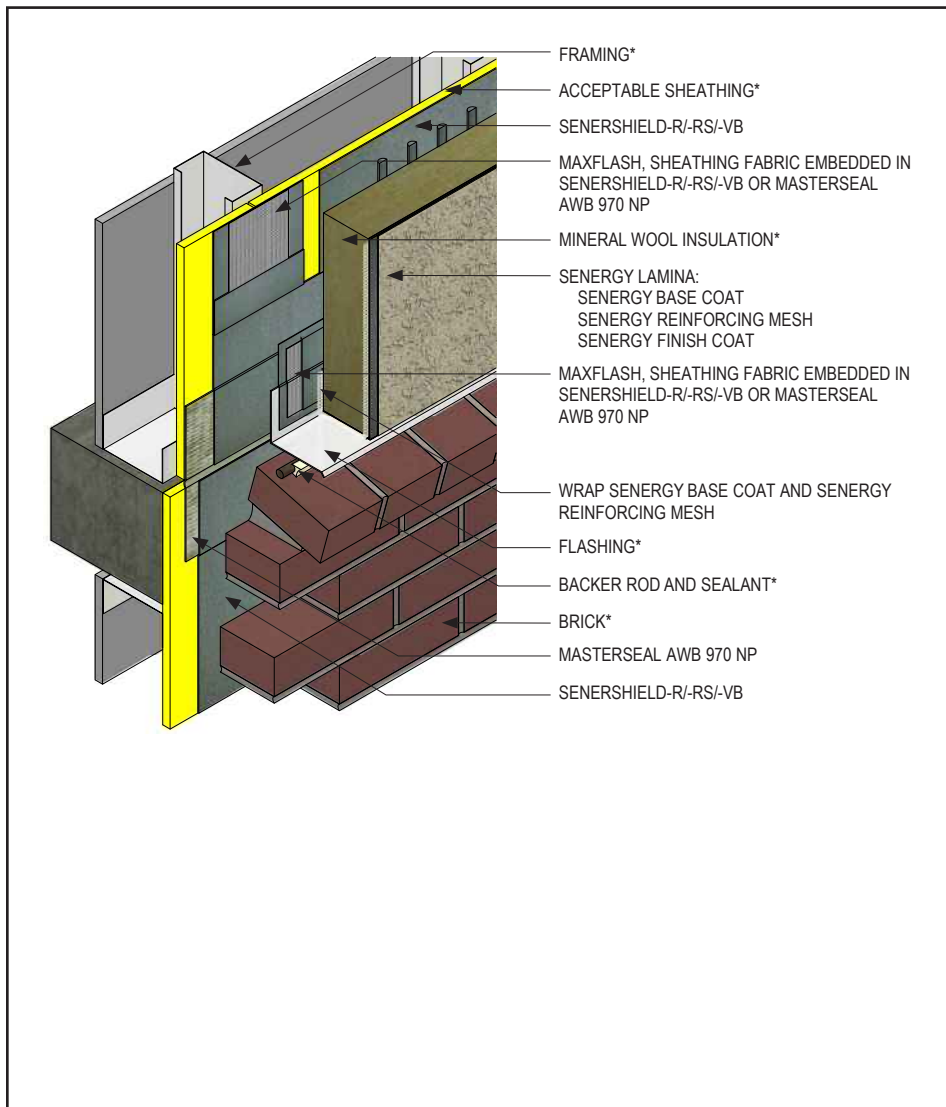
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure drainage plane is continuous and unobstructed at expansion joint.
- Do not apply finish to areas that will receive sealant.
- Typical locations for system expansion joints are at building expansion joints, at prefabricated panel joints, floor lines of wood frame construction or where slip tracks are used in steel frame construction, where substrates change and where structural movement is anticipated. It is the sole responsibility of the project design team, including the architect, engineer, etc., to ultimately determine specific expansion joint placement, width and design. Detail specific locations in construction drawings.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.

VNC-10 2209

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Senerflex Vulcan NC System TYPICAL EIFS ABUTMENT TO BRICK WITH DRAINAGE AT FLOORLINE



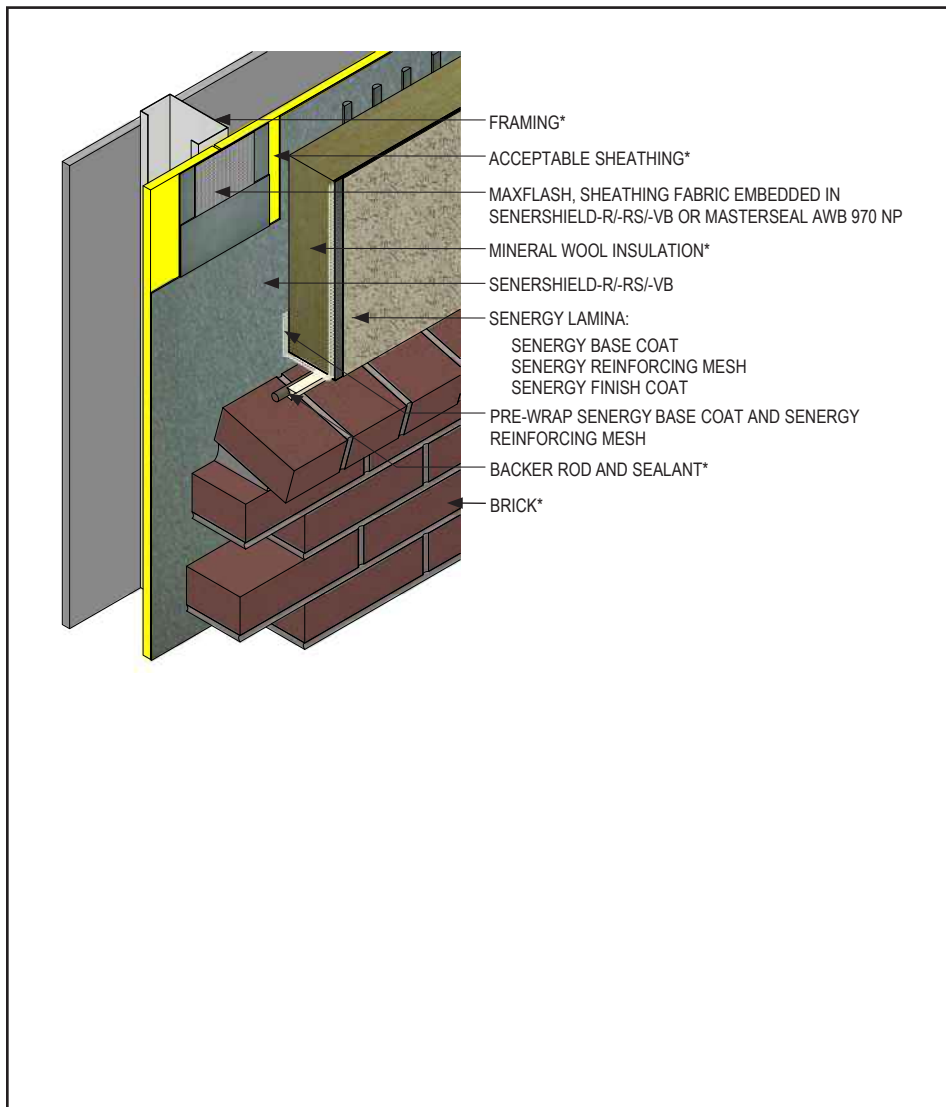
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Brick must be installed per local code requirements.

VNC-11 2209

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Senerflex Vulcan NC System TYPICAL EIFS ABUTMENT TO BRICK WITH CONTINUOUS DRAINAGE



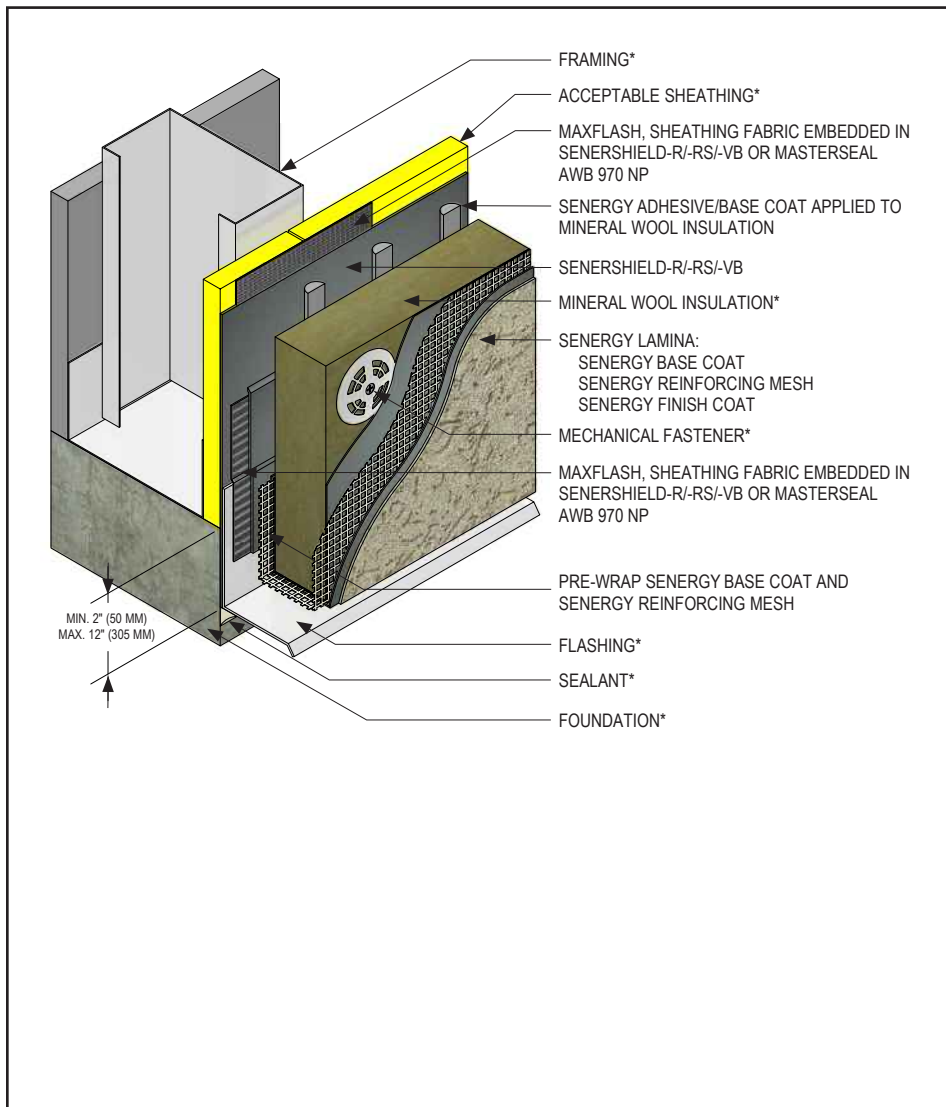
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a continuous drainage plane is maintained at system abutment to brick.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Brick must be installed per local code requirements.

VNC-12 2209

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Senerflex Vulcan NC System TYPICAL TERMINATION AT FOUNDATION



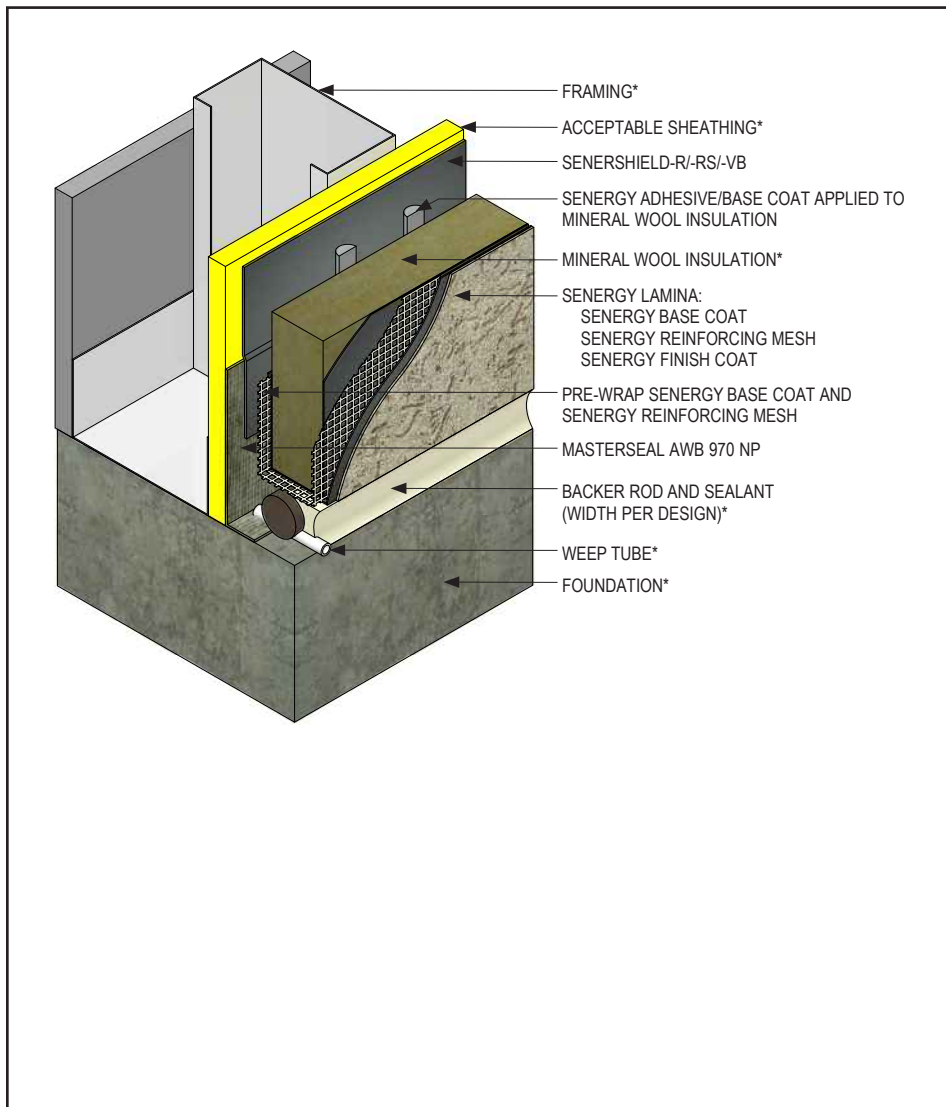
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at foundation.
- Terminate system a minimum of 6" (152 mm) above grade.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Extend system a minimum of 2" (50 mm) and a maximum of 12" (305 mm) at the sole plate foundation transition.
- Provide MaxFlash, Sheathing Fabric embedded in Senershield-R/-RS/-VB or MasterSeal AWB 970 NP at transition from sheathing to concrete (behind flashing)

VNC-13 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL TERMINATION AT FOUNDATION (FLUSH)



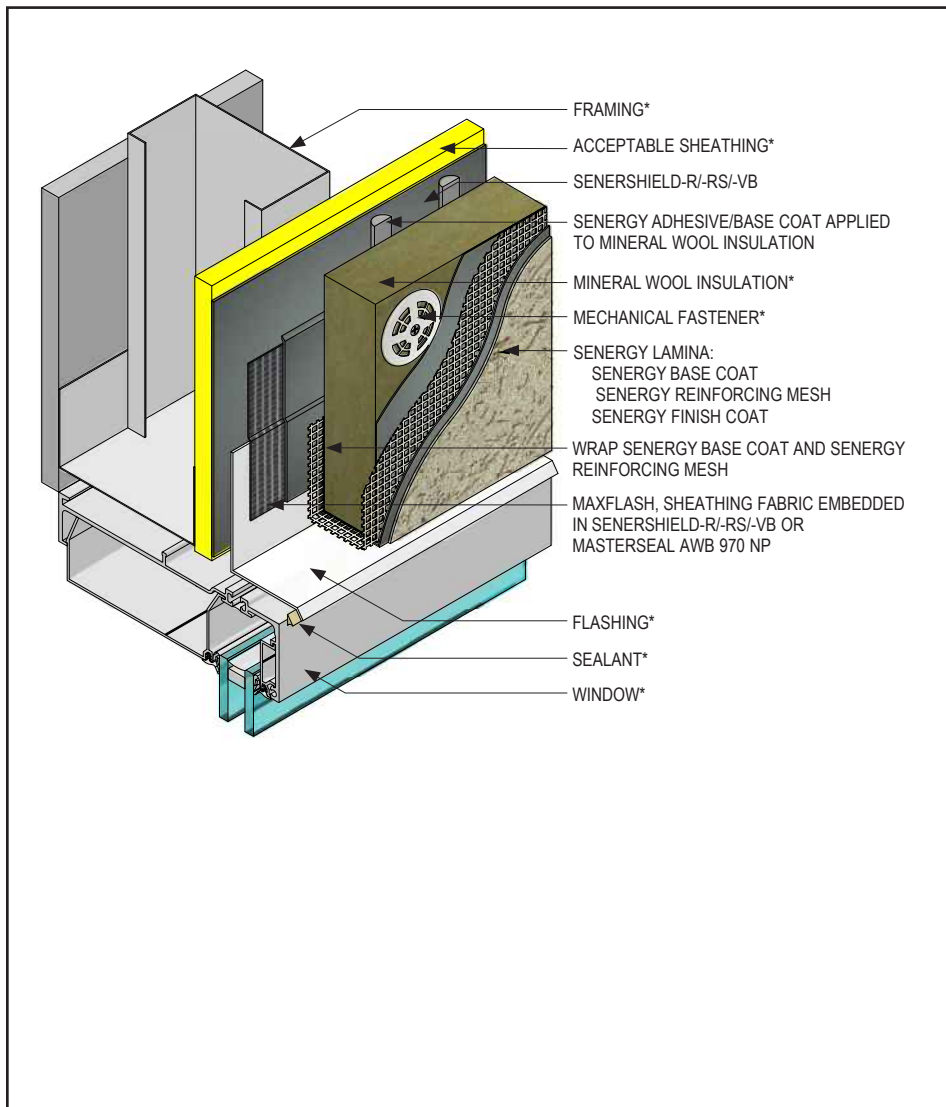
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at foundation.
- Place weep tubes a maximum of 24" (610 mm) on center.
- Do not apply finish to areas that will receive sealant.

VNC-14 2409

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Senerflex Vulcan NC System TYPICAL WINDOW HEAD (FLUSH)



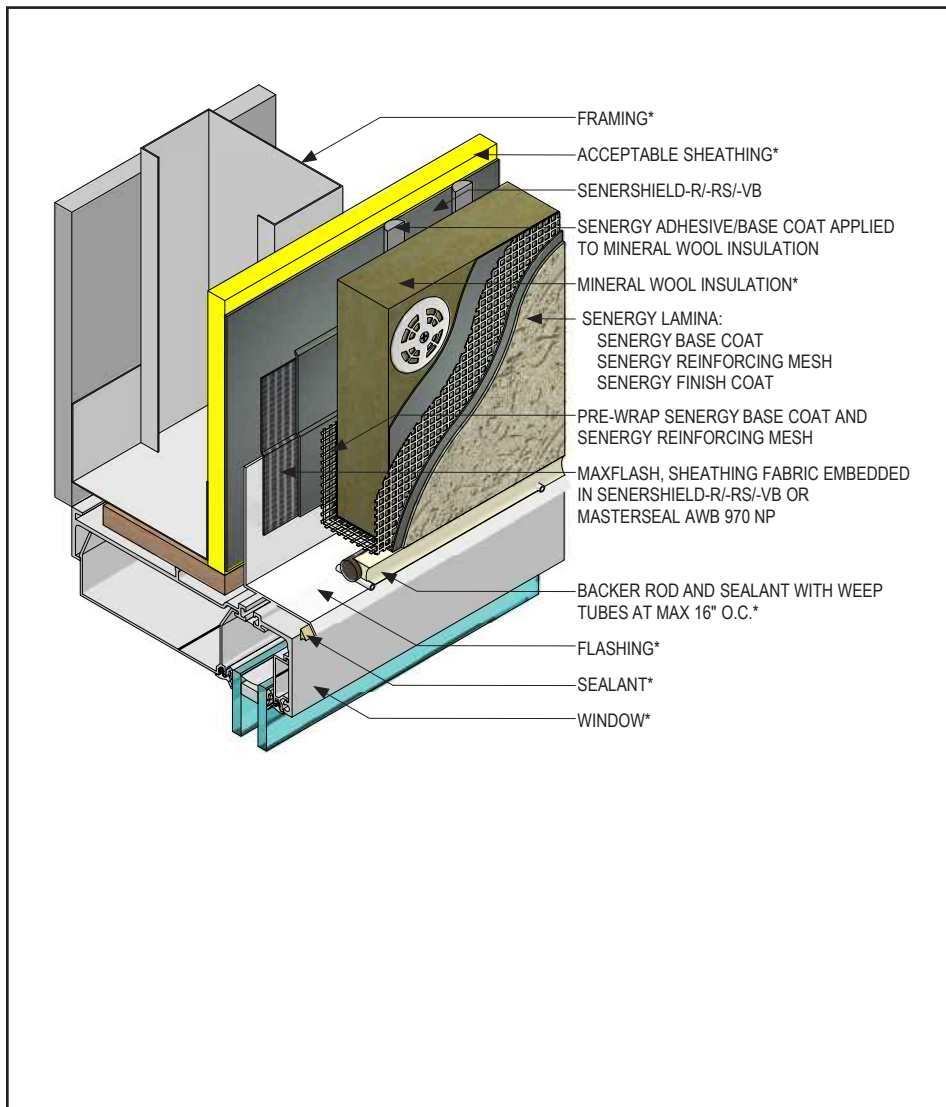
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at window head.
- Provide end-dams at flashing terminations.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.

VNC-15 2209

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Senerflex Vulcan NC System TYPICAL WINDOW HEAD (FLUSH) WITH WEEP TUBES



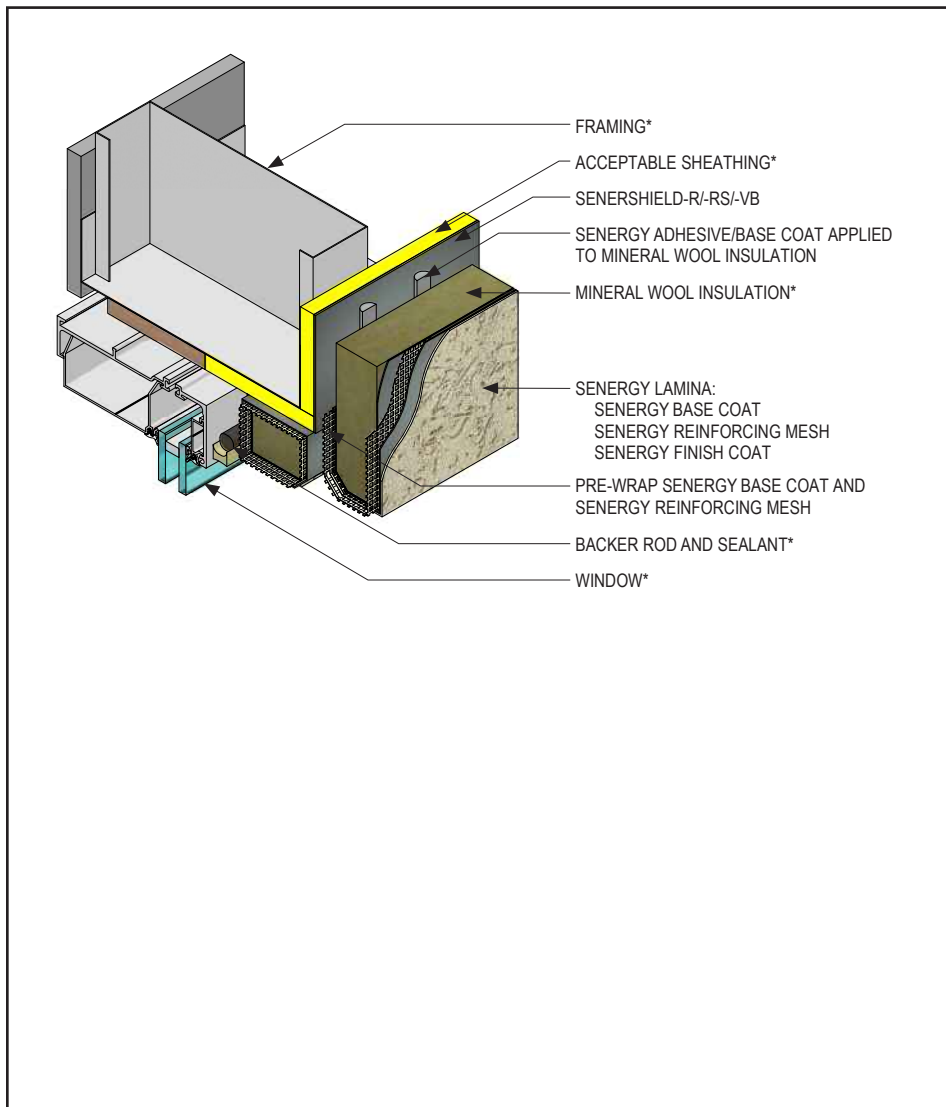
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at window head.
- Provide end-dams at flashing terminations.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Sheathing Fabric, MaxFlash and MasterSeal AWB 970 NP are produced by Master Builders Solutions.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Place weep tubes a maximum of 16" (406 mm) on center.

VNC-16 2209

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Senerflex Vulcan NC System TYPICAL WINDOW HEAD (RECESSED)



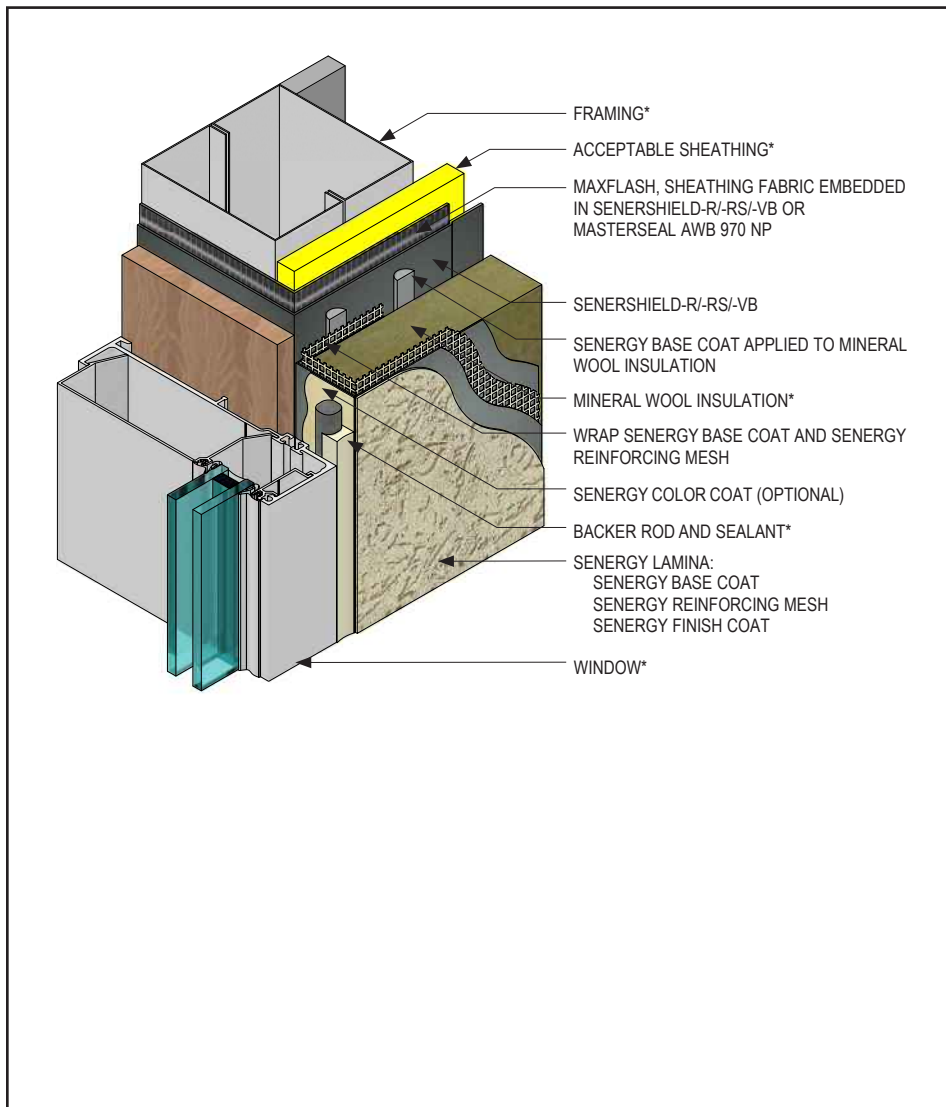
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at window head.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Do not apply finish in areas that will receive sealant.

VNC-17 2209

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Senerflex Vulcan NC System TYPICAL WINDOW JAMB (FLUSH)



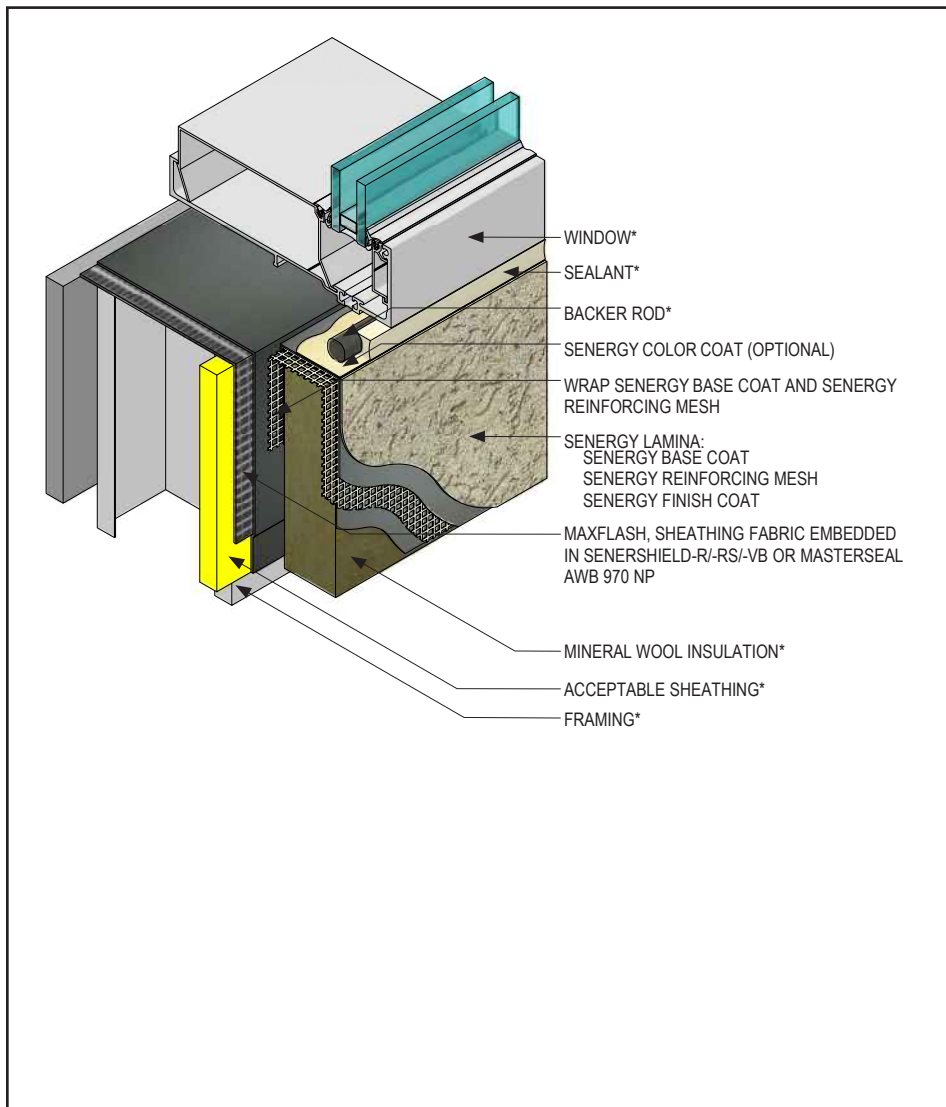
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Do not apply finish in areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).

VNC-18 2209

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Senerflex Vulcan NC System TYPICAL WINDOW SILL (FLUSH)



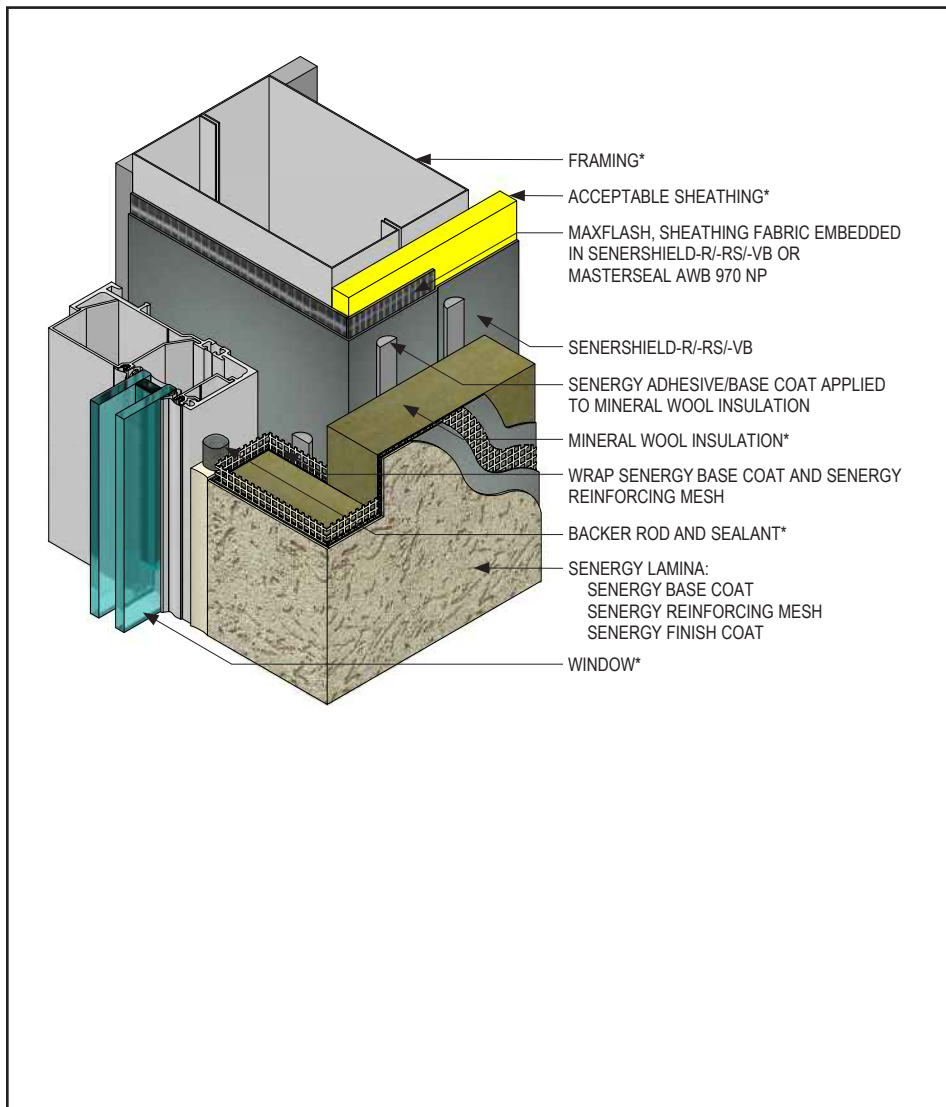
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Do not apply finish in areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).

VNC-19 2209

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Senerflex Vulcan NC System TYPICAL WINDOW JAMB (RECESSED)



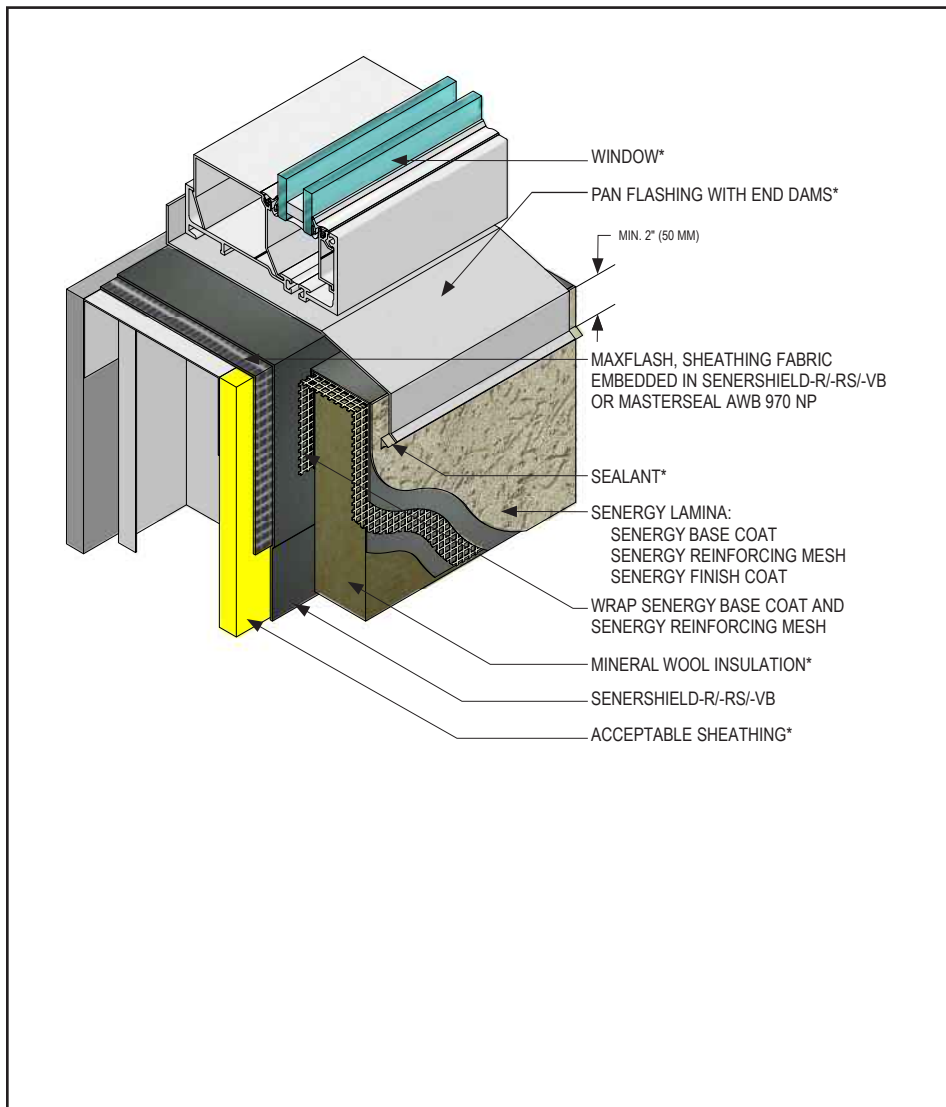
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Do not apply finish in areas that will receive sealant.
- Provide a back wrapped type joint with backer rod and sealant at system terminations to dissimilar materials, ensuring that a water tight seal is achieved (width per design).

VNC-20 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL WINDOW SILL (RECESSED)



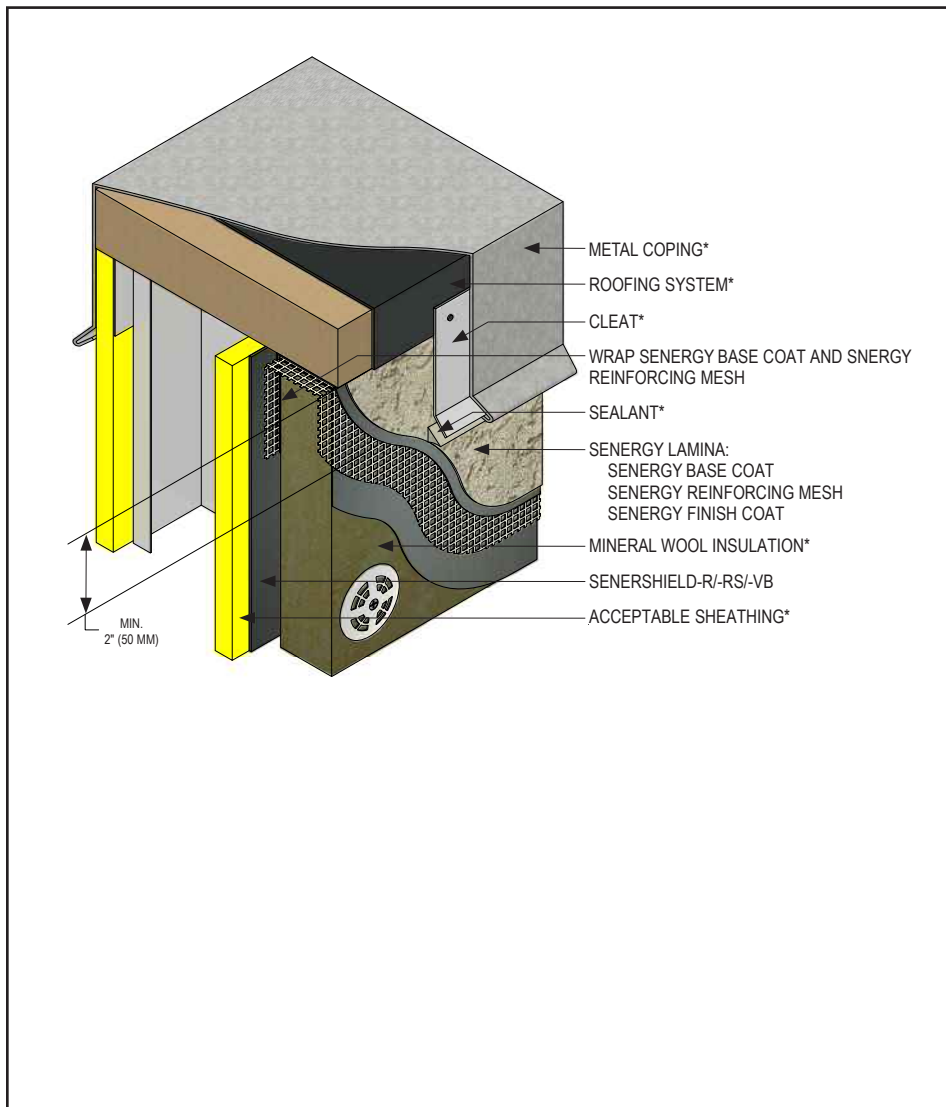
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Consult window and sealant manufacturers to verify window installation, detailing and to ensure no water leakage into the wall assembly.
- Ensure water-resistive barrier is properly applied into the rough openings in accordance with application guidelines and code requirements prior to mineral wool insulation application.
- Ensure that metal pan flashing extends onto the system a minimum of 2" (50 mm) down the face and that end dams are provided. Transition on to end-dams with MaxFlash, Sheathing Fabric embedded in Senershield-R/-RS/-VB or MasterSeal AWB 970 NP.

VNC-21 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL PARAPET CAP FLASHING



- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure that metal coping/flashing extends onto the system a minimum of 2" (50 mm) down the face.
- Extend Senershield-R/-RS/-VB or MaxFlash onto bottom of blocking or provide alternate air seal at sheathing termination to blocking.

VNC-22 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL KICK-OUT FLASHING



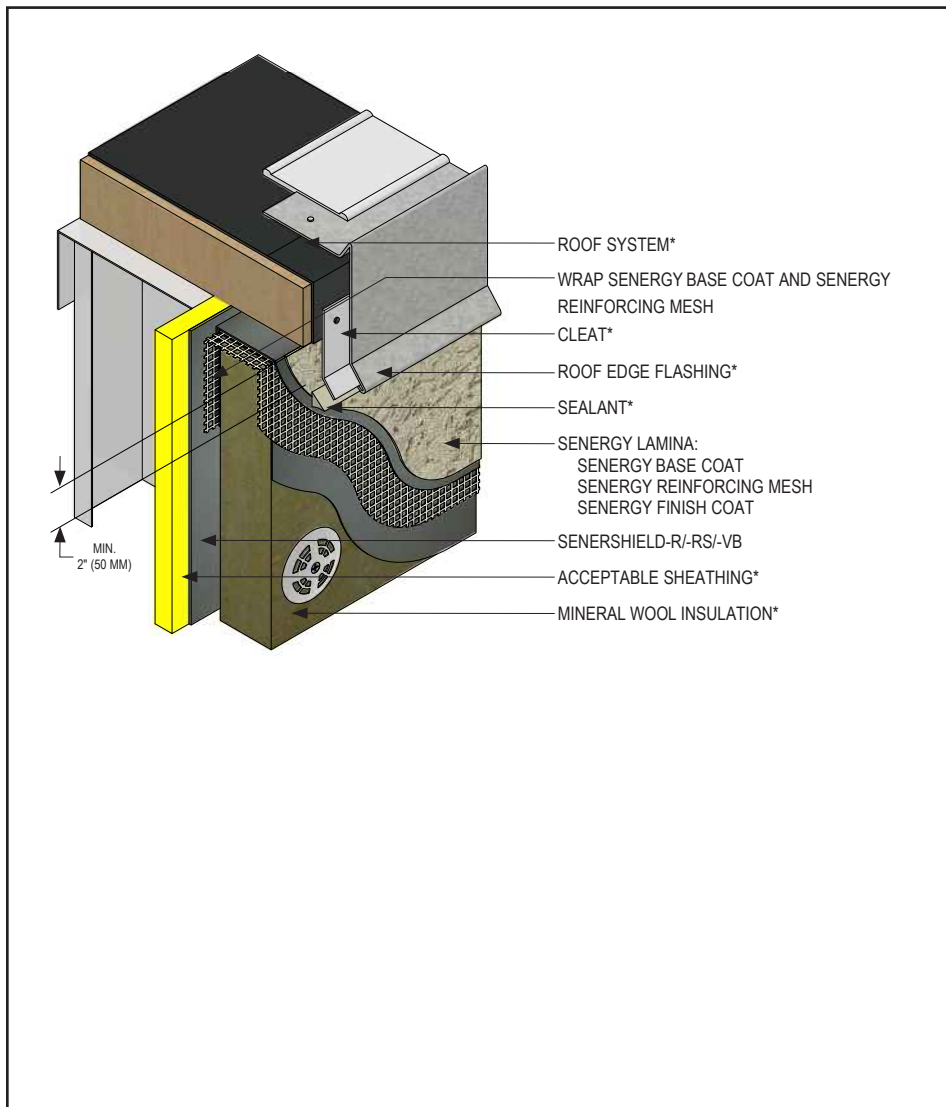
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at roof.
- Terminate system a minimum of 2" (50 mm) above roof.
- Ensure step flashing is a minimum of 2" (50 mm) behind system.
- Kick-out flashing shall be a minimum of 4" (102 mm) in height.
- Do not apply finish to areas that will receive sealant

VNC-23 2209

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Senerflex Vulcan NC System TYPICAL ROOF EDGE FLASHING



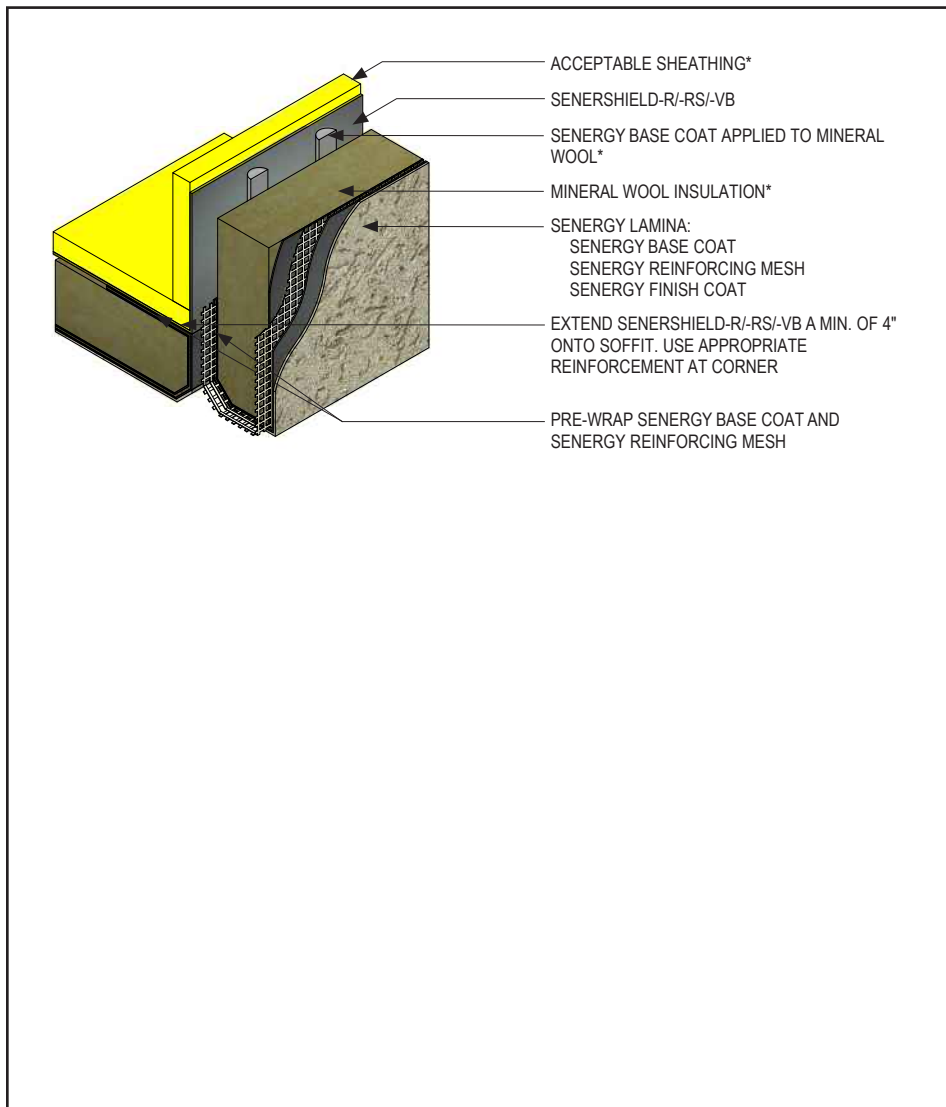
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure that metal coping/flashing extends onto the system a minimum of 2" (50 mm) down the face.
- Extend Senershield-R/-RS/-VB or MaxFlash onto bottom of blocking or provide alternate air seal at sheathing termination to blocking.

VNC-24 2209

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Senerflex Vulcan NC System SECTION AT FASCIA / SOFFIT



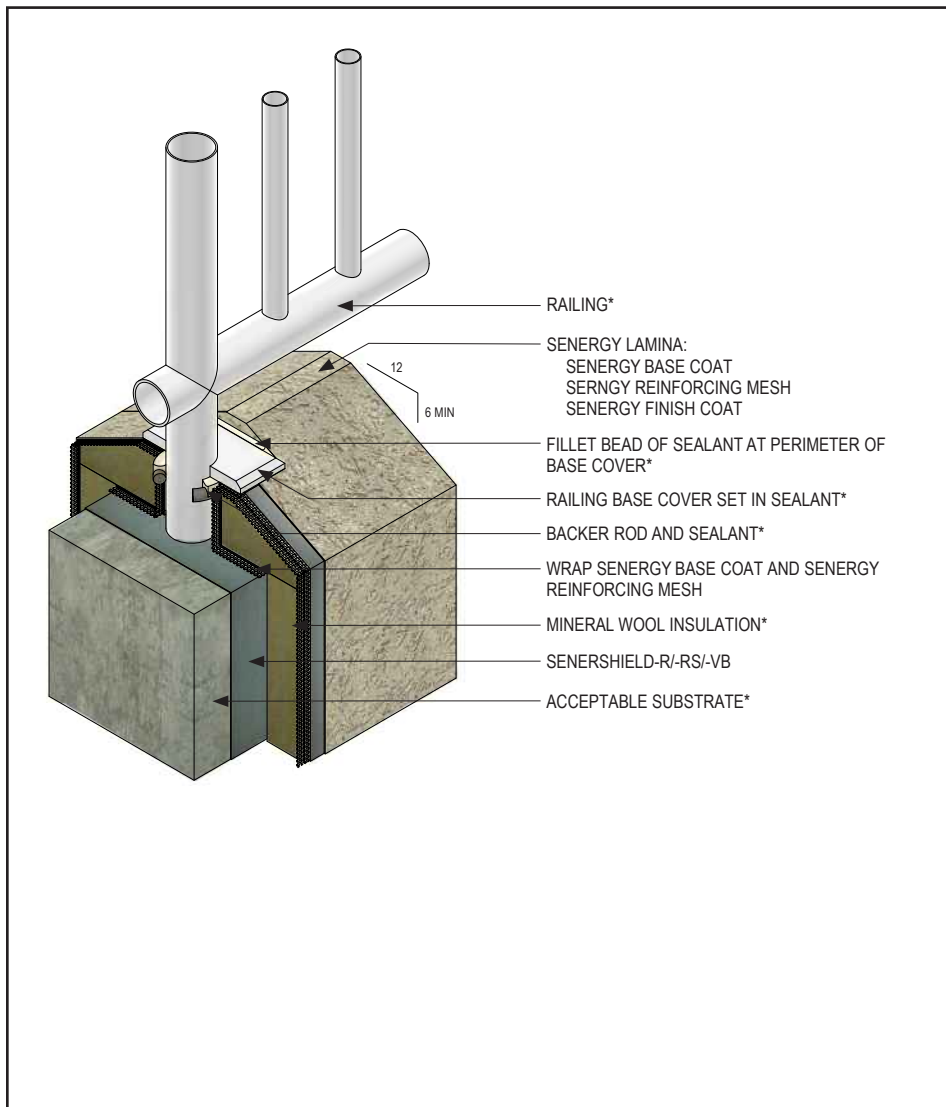
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat. Pre-backwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Ensure a means for drainage is provided at system termination at soffit/fascia transition.

VNC-25 2209

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Senerflex Vulcan NC System TYPICAL CORE MOUNTED RAILING ATTACHMENT



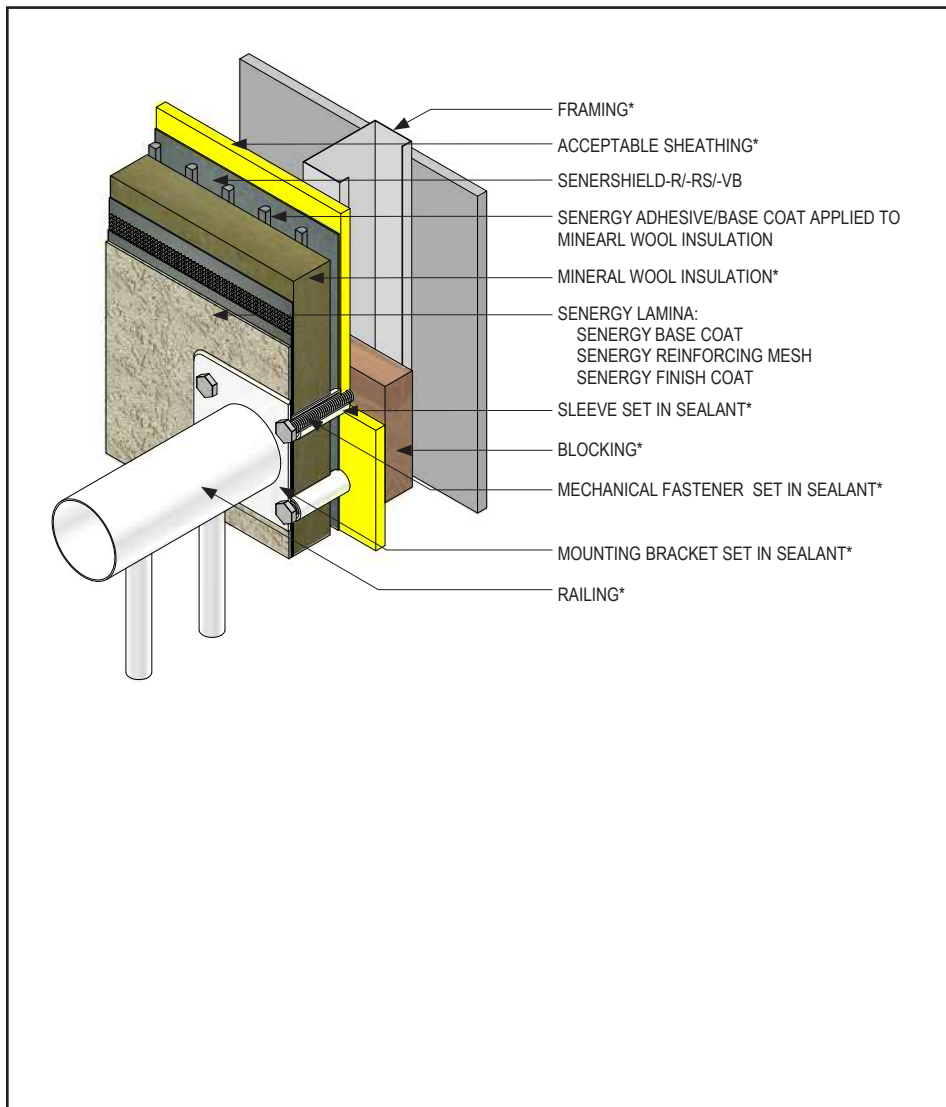
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure all penetrations into the system are properly sealed.

VNC-26 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL RAILING ATTACHMENT



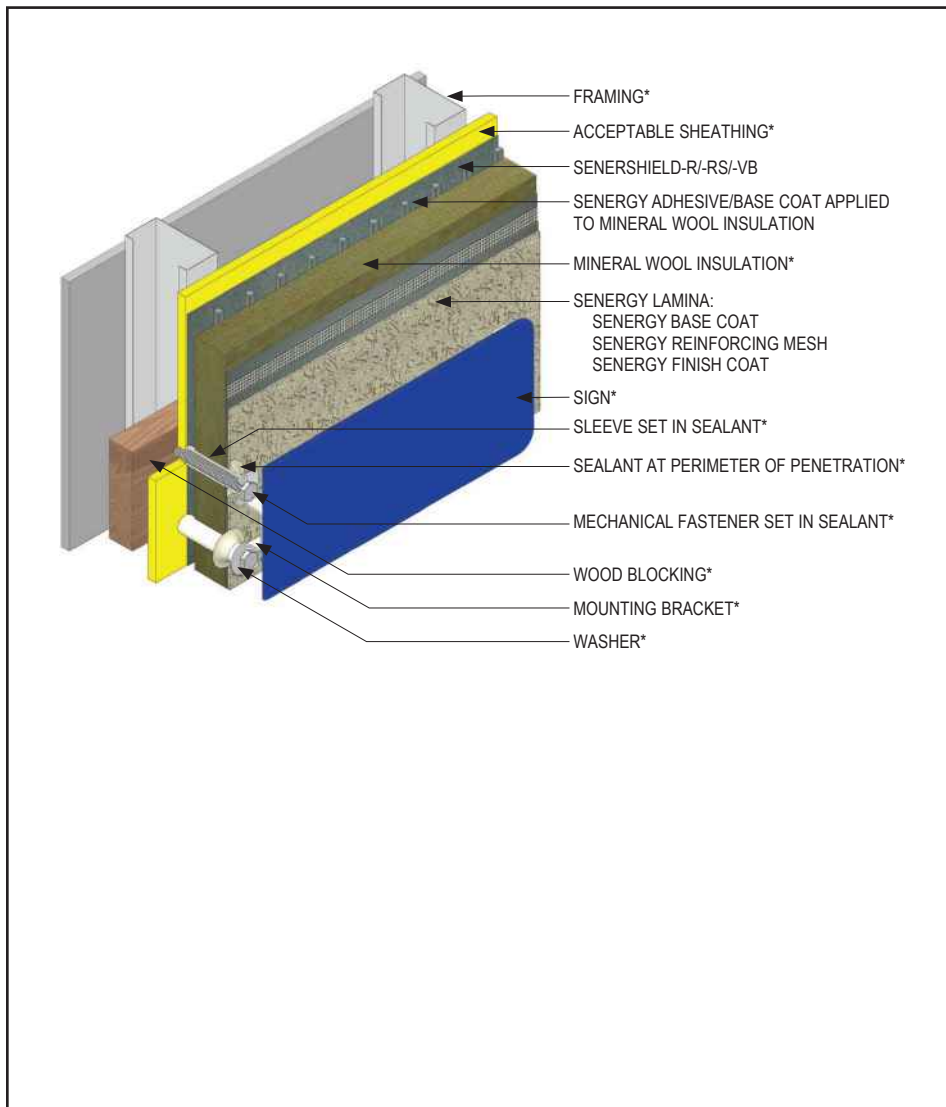
- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure all penetrations into the system are properly sealed.

VNC-27 2209

(*NOTE: BY OTHERS)

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Senerflex Vulcan NC System TYPICAL SIGN ATTACHMENT



- Verify all materials are installed in accordance with current installation instructions.
- All terminations must be fully encapsulated with mesh reinforced base coat.
- Ensure all penetrations into the system are properly sealed.
- Blocking or other structural support required for sign attachment.

VNC-28 2209

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