

**Senergy**<sup>®</sup>



## **Surfacing System for Insulated Concrete Forms (ICFs)**

Weather-resistant cladding consisting of a mesh-reinforced base coat and acrylic finish over a structurally insulated panel.

Typical 2D Details

**BUILDING TRUST**



# Surfacing System for ICF

## Typical 2D Details

### Table of Contents

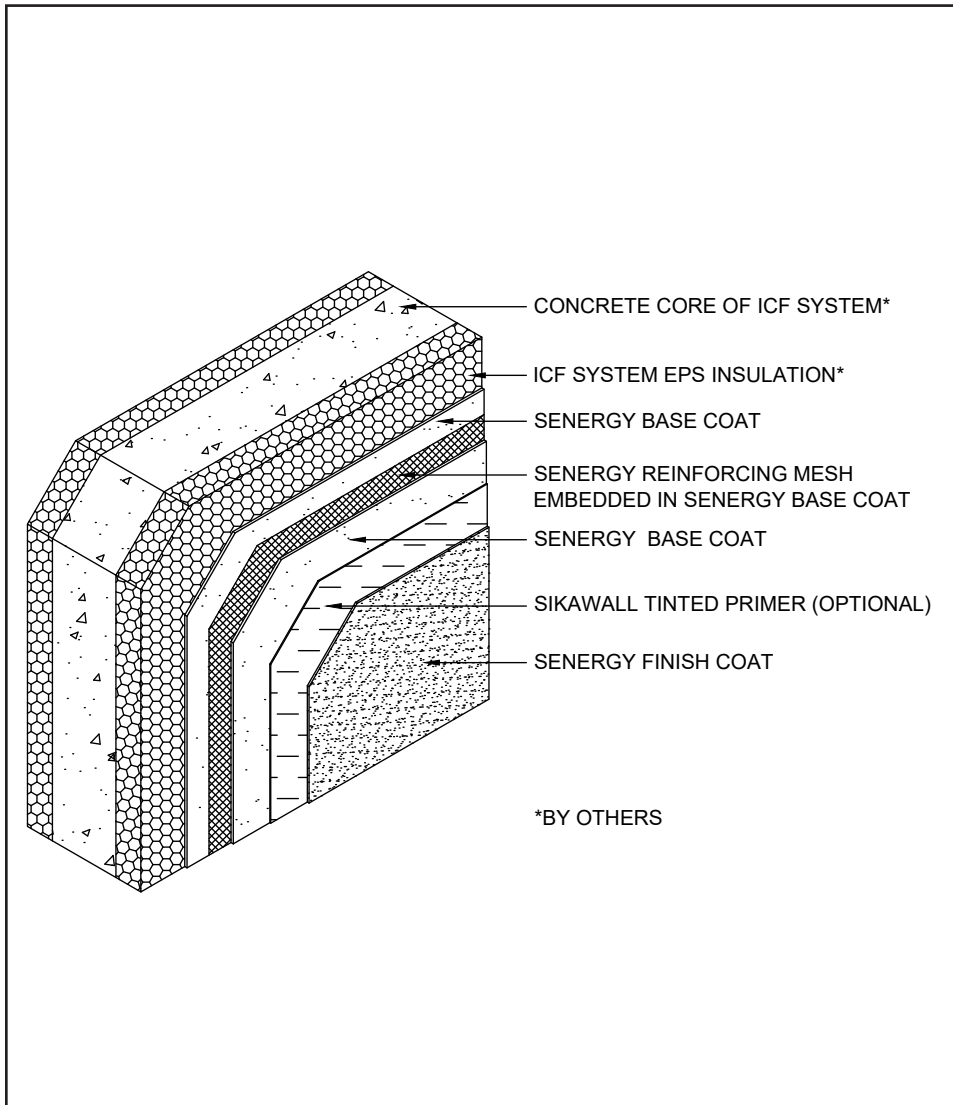
- |  |                                 |
|--|---------------------------------|
| 1. Surfacing System Application for ICF                          | 11. Window Sill with Vinyl Buck |
| 2. Surfacing System for ICF with Additional EPS Insulation Board | 12. Window Sill (Recessed)      |
| 3. Aesthetic Reveal  | 13. Parapet                     |
| 4. EPS Shape   | 14. Transition to Existing Wall |
| 5. Window Head with Wood Buck                                    | 15. Pipe Penetration            |
| 6. Window Jamb with Wood Buck                                    | 16. Termination at Foundation   |
| 7. Window Head with Vinyl Buck                                   | 17. Non-Combustible Floor Line  |
| 8. Window Jamb with Vinyl Buck                                   | 18. Termination at Soffit       |
| 9. Window Head and Jamb (Recessed)                               | 19. Termination at Sloped Roof  |
| 10. Window Sill with Wood Buck                                   | 20. Kick-Out Flashing           |

### Notes:

- **The details within are the latest recommendations and are represent in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.**
- **Install Sika materials in accordance with current installation instructions.**
- **Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.**
- **Follow ICF manufacturer's specifications for proper ICF installation.**

## Surfacing System for ICF

### TYPICAL SURFACING SYSTEM APPLICATION FOR ICF



- Use of SikaWall Ultra HI 20 reinforcing mesh is recommend at the ground floor in high traffic areas and in areas exposed to potential for high impact.
- Follow ICF manufacturer's specifications for proper ICF installation.

\*BY OTHERS

01 0524

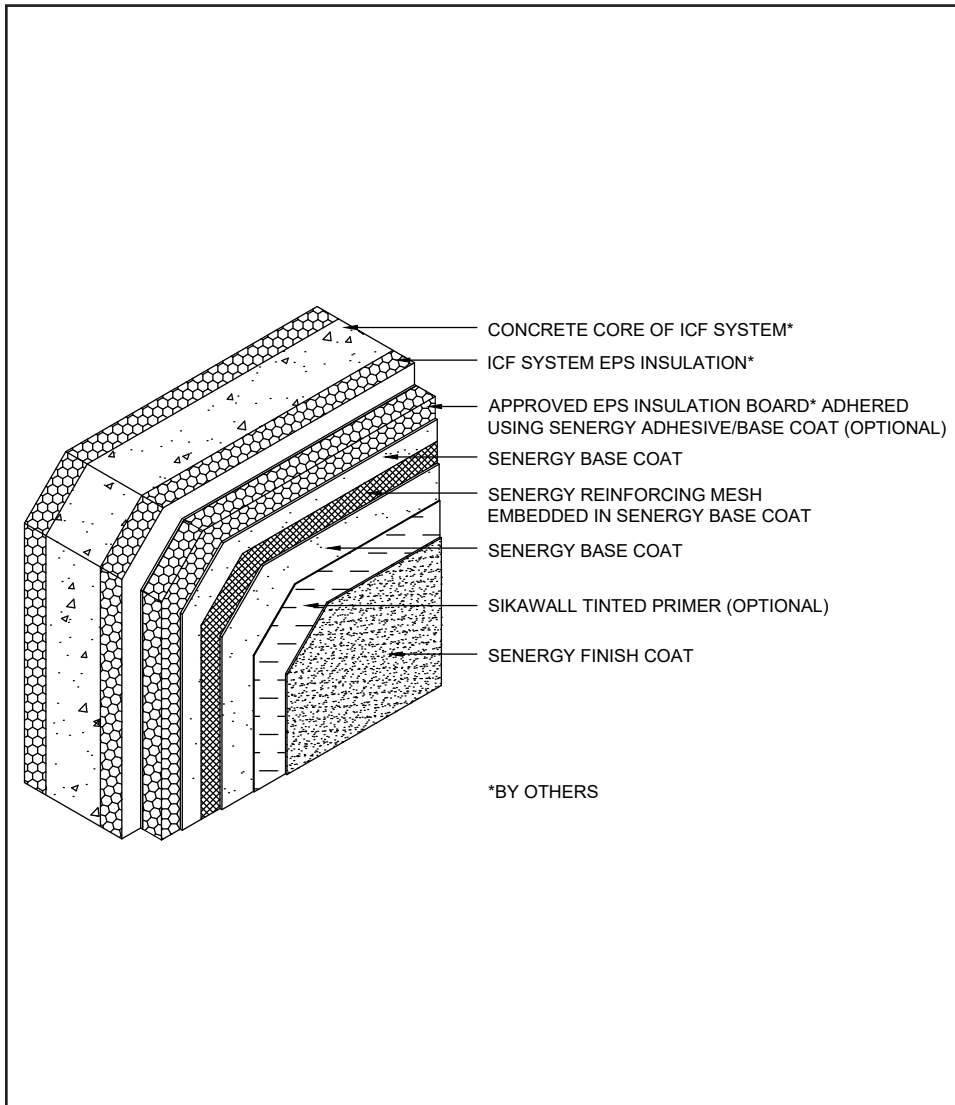
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL SURFACING SYSTEM FOR ICF WITH ADDITIONAL EPS INSULATION BOARD



- Use of SikaWall Ultra HI 20 reinforcing mesh is recommended at the ground floor in high traffic areas and in areas exposed to potential for high impact.
- Follow ICF manufacturer's specifications for proper ICF installation.

02 0524

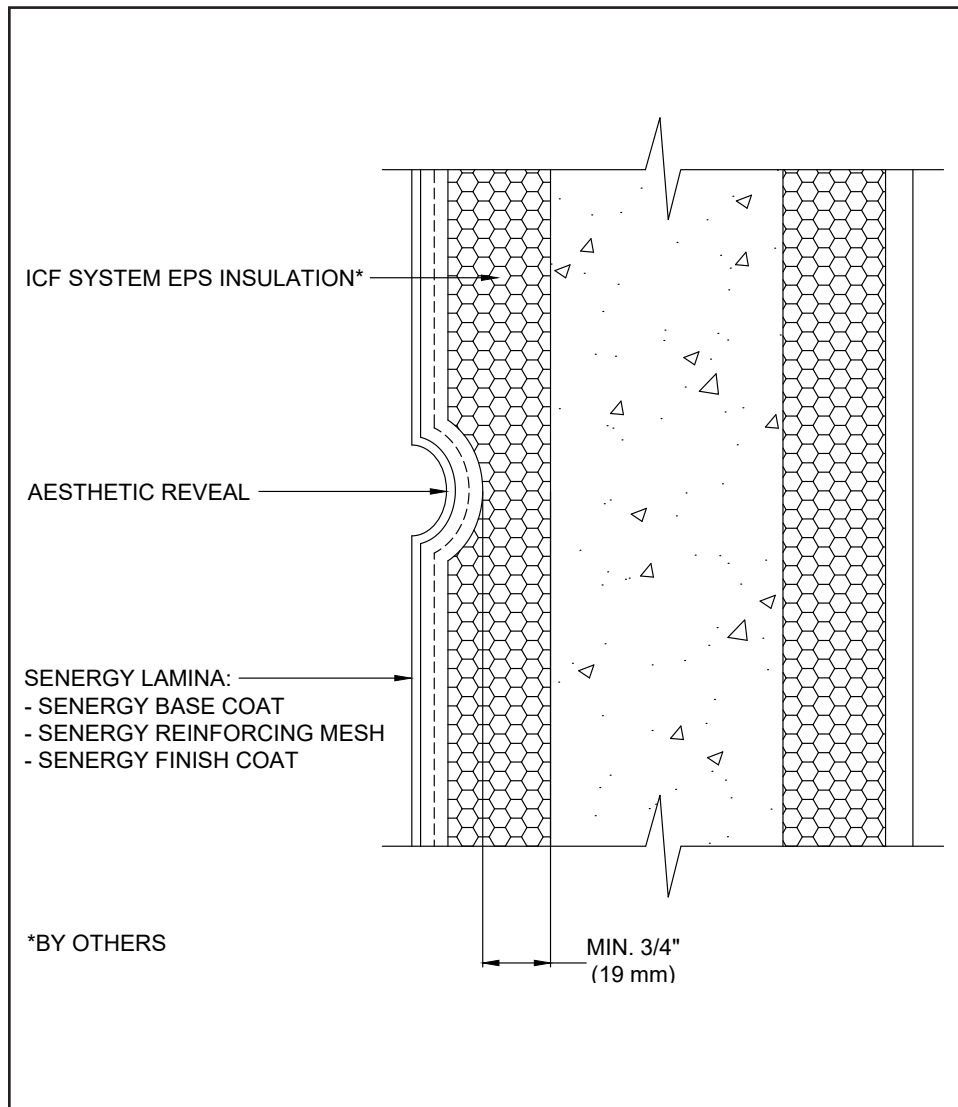
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

# Surfacing System for ICF

## TYPICAL AESTHETIC REVEAL



- Maintain a continuous layer of EPS insulation board, at a minimum 3/4" (19 mm) thickness, behind all reveals and aesthetic grooves.
- Reinforcing mesh shall be continuous and care shall be taken to ensure reinforcing mesh is not cut during base coat application.
- Horizontal reveals shall provide for outward positive drainage.
- Reveals must not occur at the abutment of two ICF panels.

03 0524

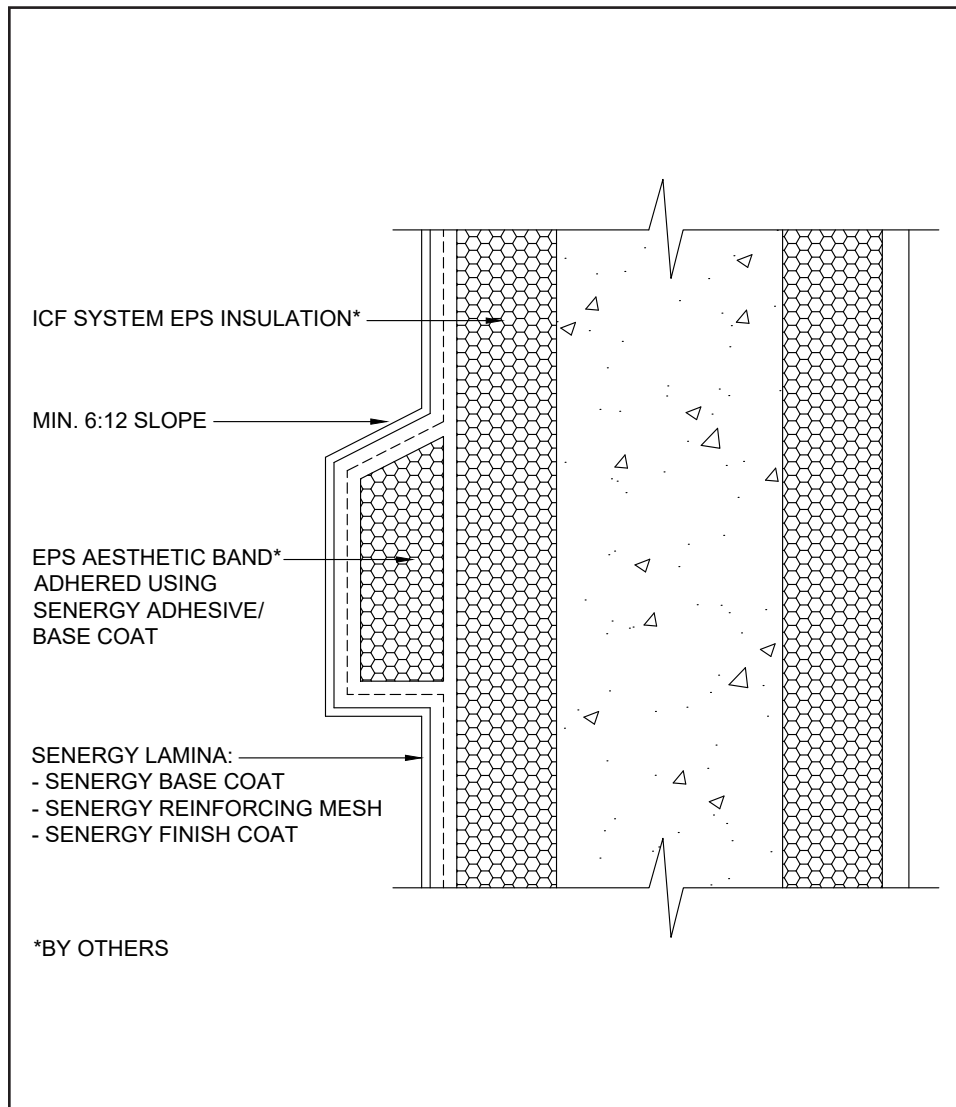
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL EPS SHAPE



- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope. For sloped surfaces over 24" (340mm), a roofing system or a metal cap flashing is required

04 0524

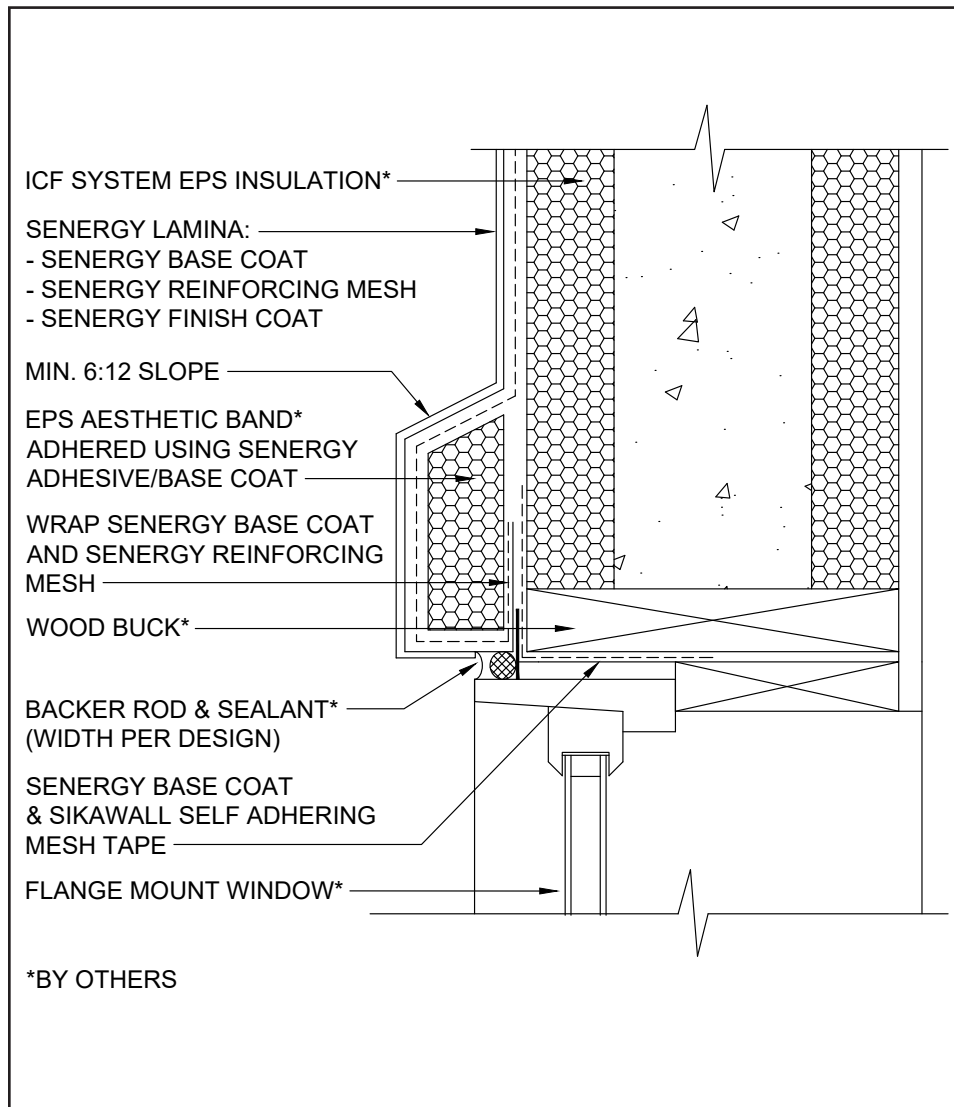
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL WINDOW HEAD WITH WOOD BUCK



- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope. For sloped surfaces over 24" (340mm), a roofing system or a metal cap flashing is required.
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.

05 0524

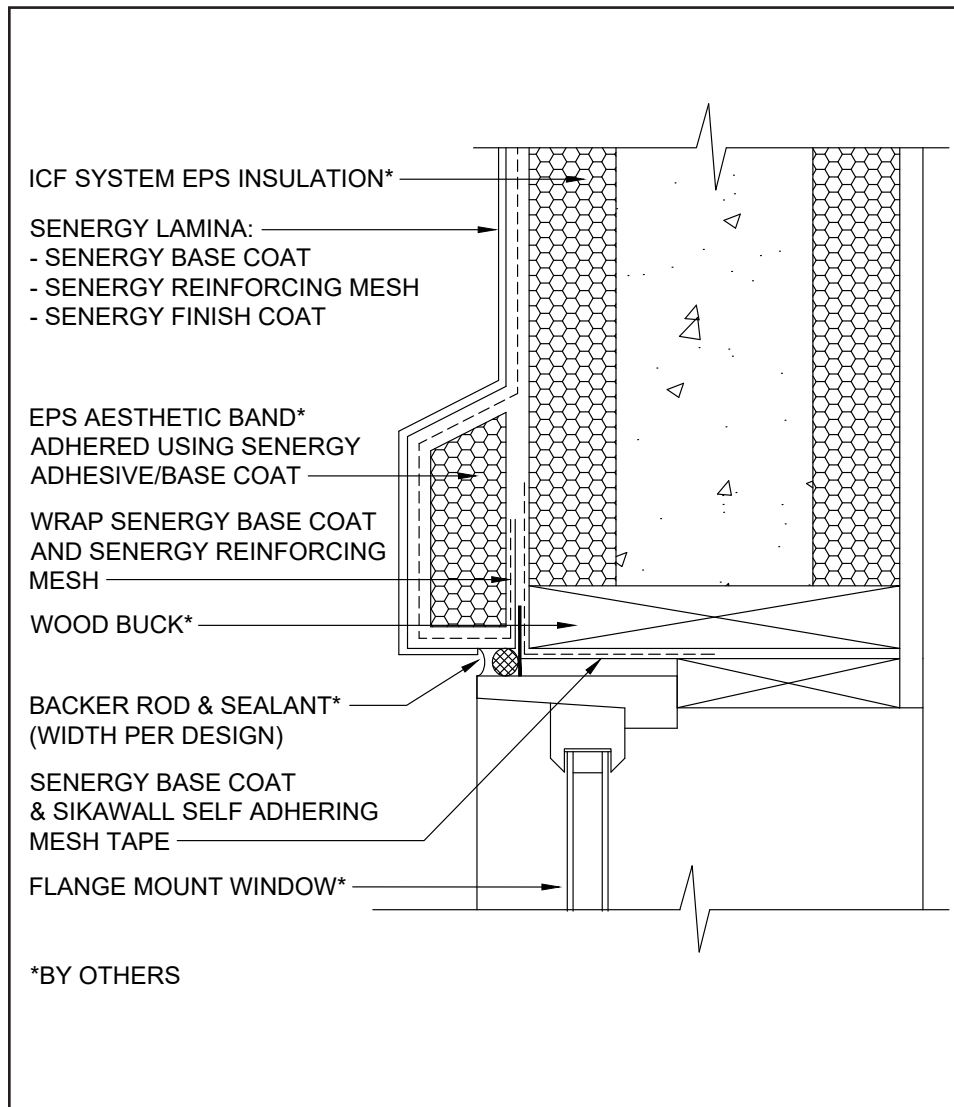
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL WINDOW JAMB WITH WOOD BUCK



• All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

• Do not apply finish to areas that will receive sealant.

06 0524

(\*NOTE: BY OTHERS)

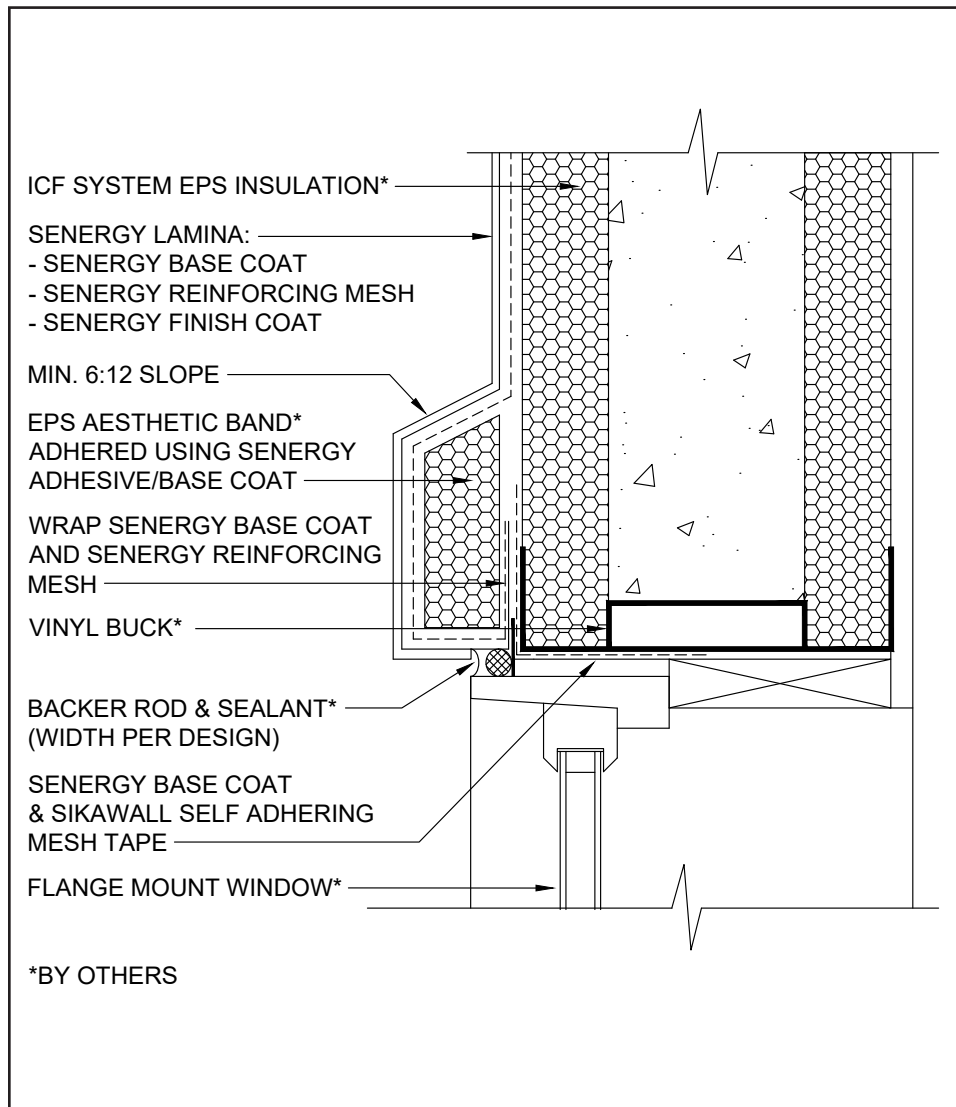
The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.



## Surfacing System for ICF

### TYPICAL WINDOW HEAD WITH VINYL BUCK



- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope. For sloped surfaces over 24" (340mm), a roofing system or a metal cap flashing is required.
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.

07 0524

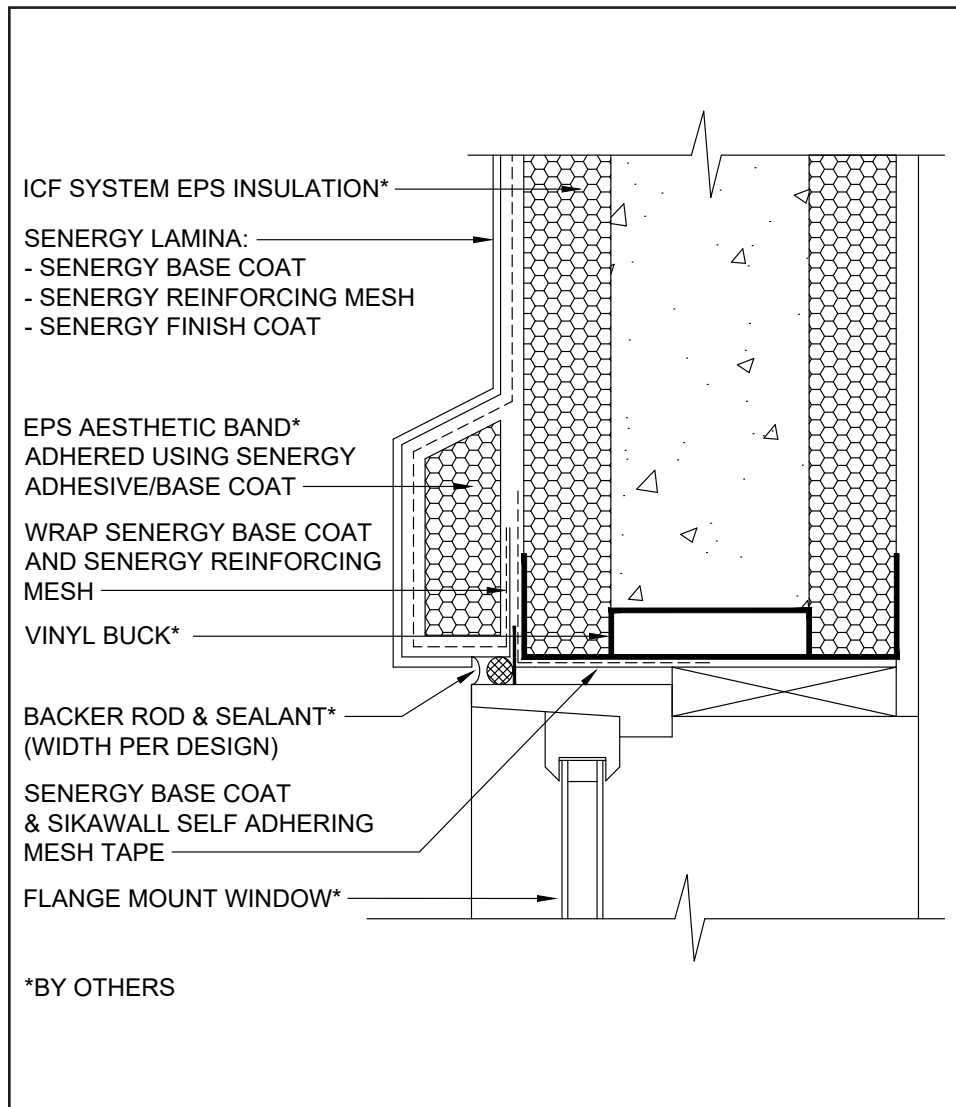
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL WINDOW JAMB WITH VINYL BUCK



- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.
- Do not apply finish to areas that will receive sealant.

08 0524

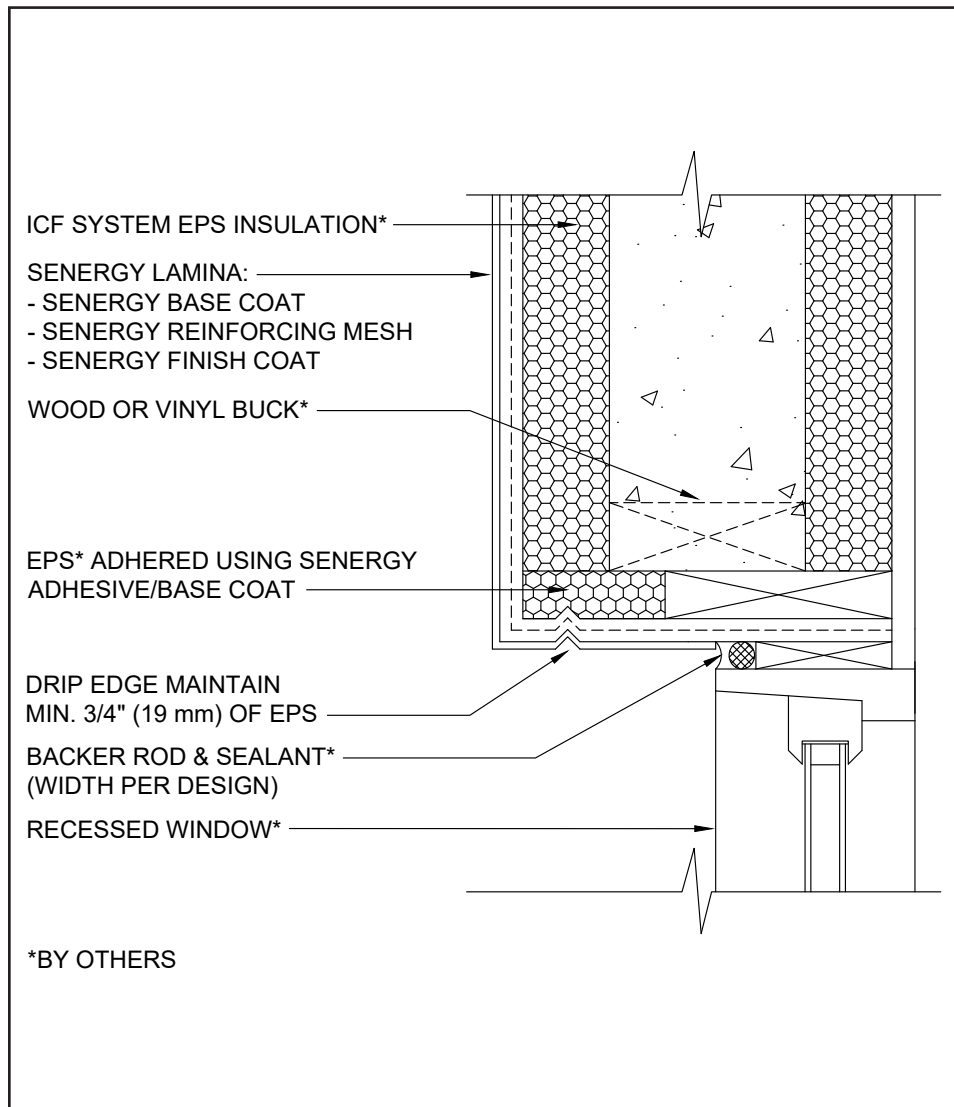
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL WINDOW HEAD AND JAMB (RECESSED)



- Maintain a continuous layer of EPS insulation board, at a minimum 3/4" (19 mm) thickness, behind all reveals/drip edge grooves.
- Reinforcing mesh shall be continuous and care shall be taken to ensure reinforcing mesh is not cut during base coat application.
- Do not apply finish to areas that will receive sealant.

09 0524

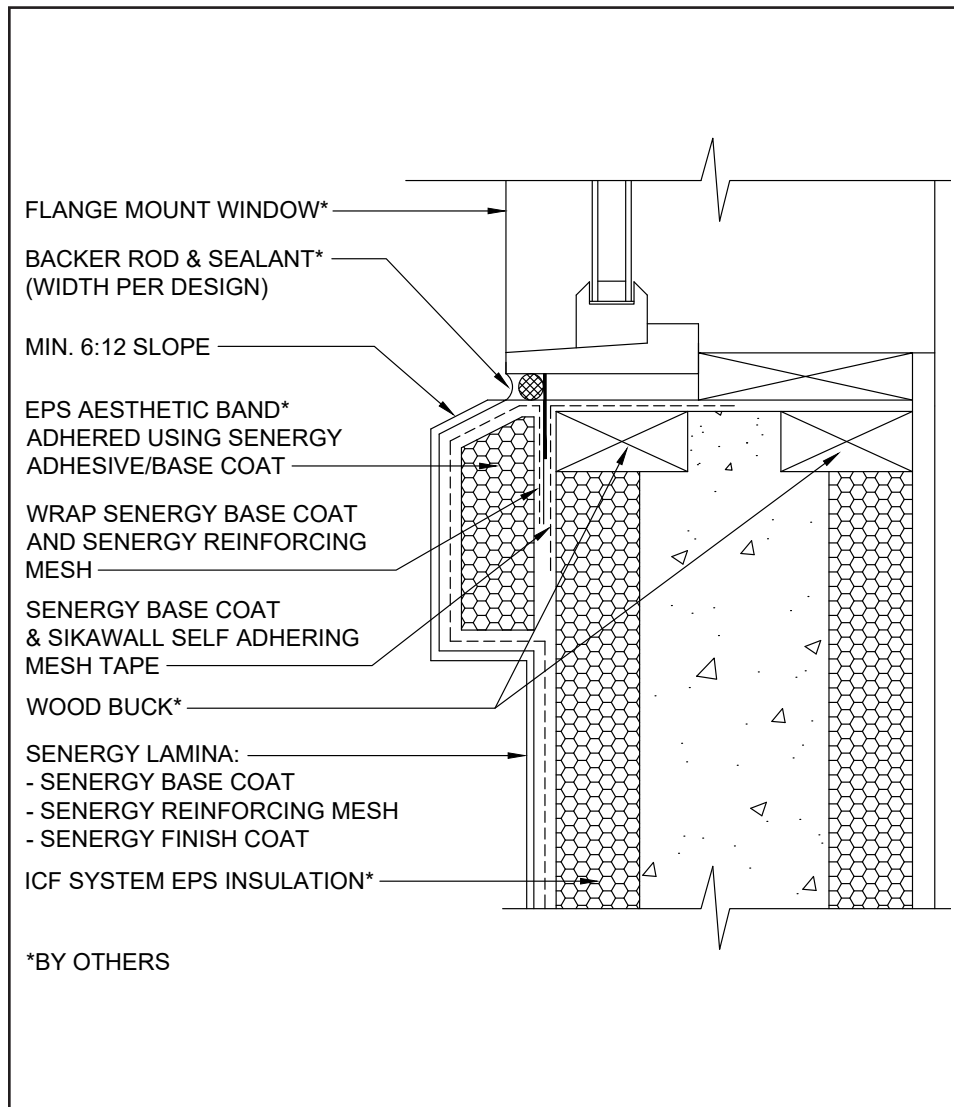
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL WINDOW SILL WITH WOOD BUCK



- Provide a minimum 6:12 slope for all horizontal surfaces.
- All terminations must be fully encapsulated with mesh reinforced base coat. Prebackwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

10 0524

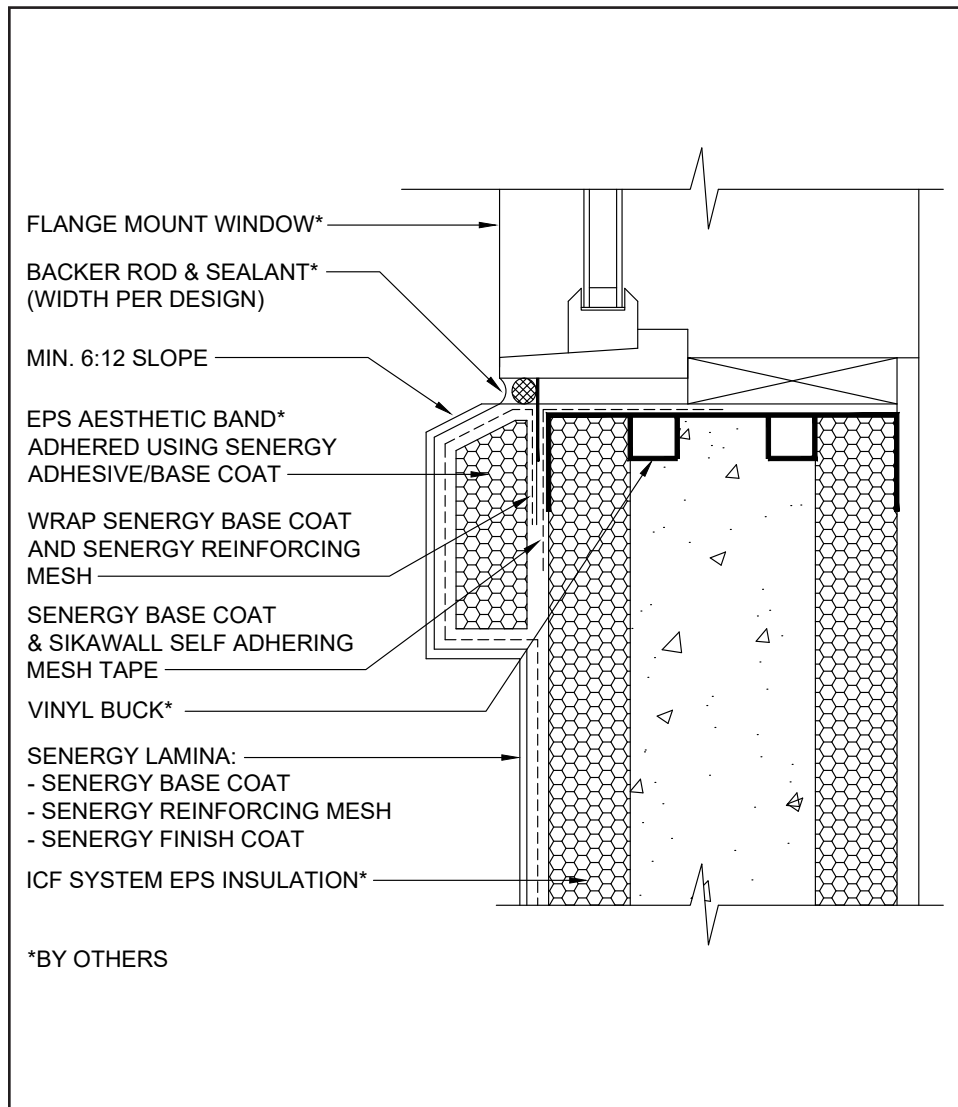
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

# Surfacing System for ICF

## TYPICAL WINDOW SILL WITH VINYL BUCK



- Provide a minimum 6:12 slope for all horizontal surfaces.
- All terminations must be fully encapsulated with mesh reinforced base coat. Prebackwrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

\*BY OTHERS

11 0524

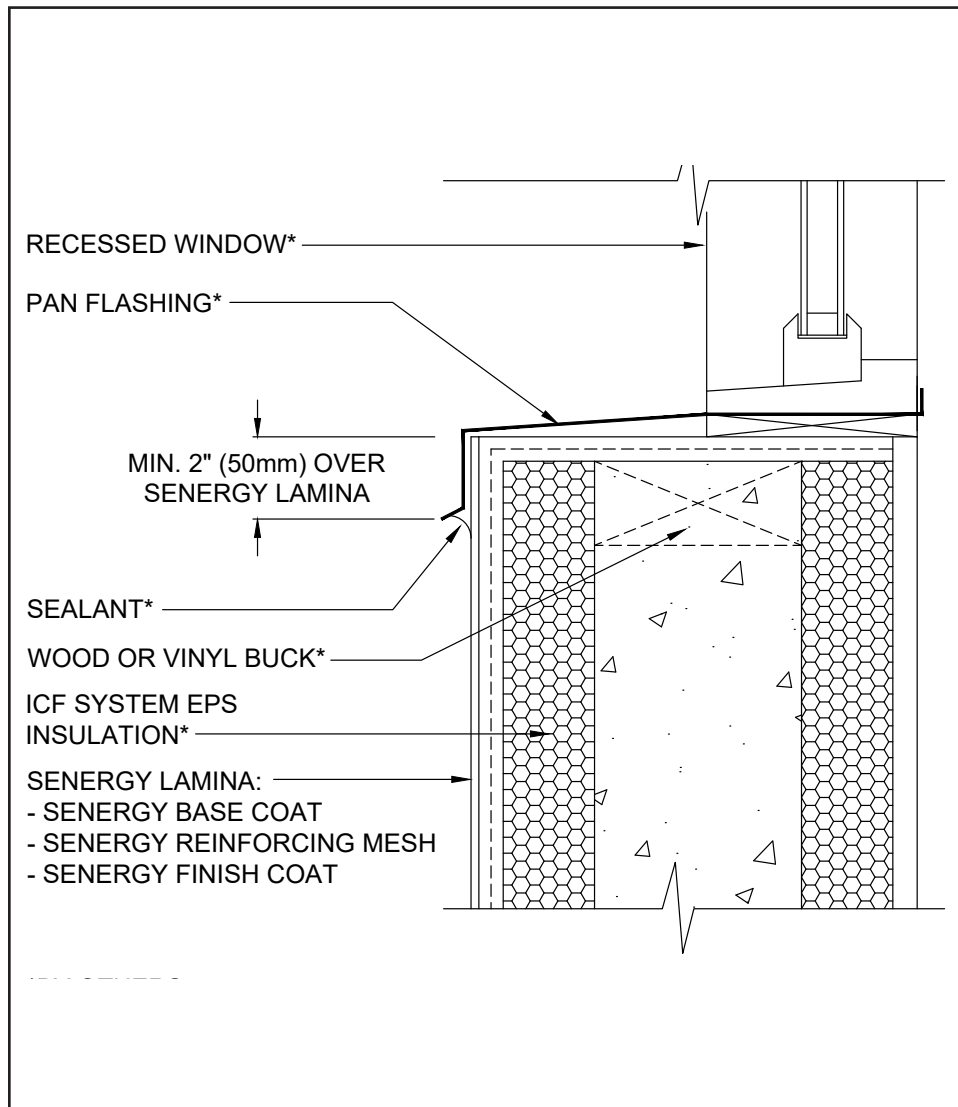
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

# Surfacing System for ICF

## TYPICAL WINDOW SILL (RECESSED)



- Ensure that metal pan flashing extends onto the system a minimum of 2" (50 mm) down the face and that end dams are provided.

12 0524

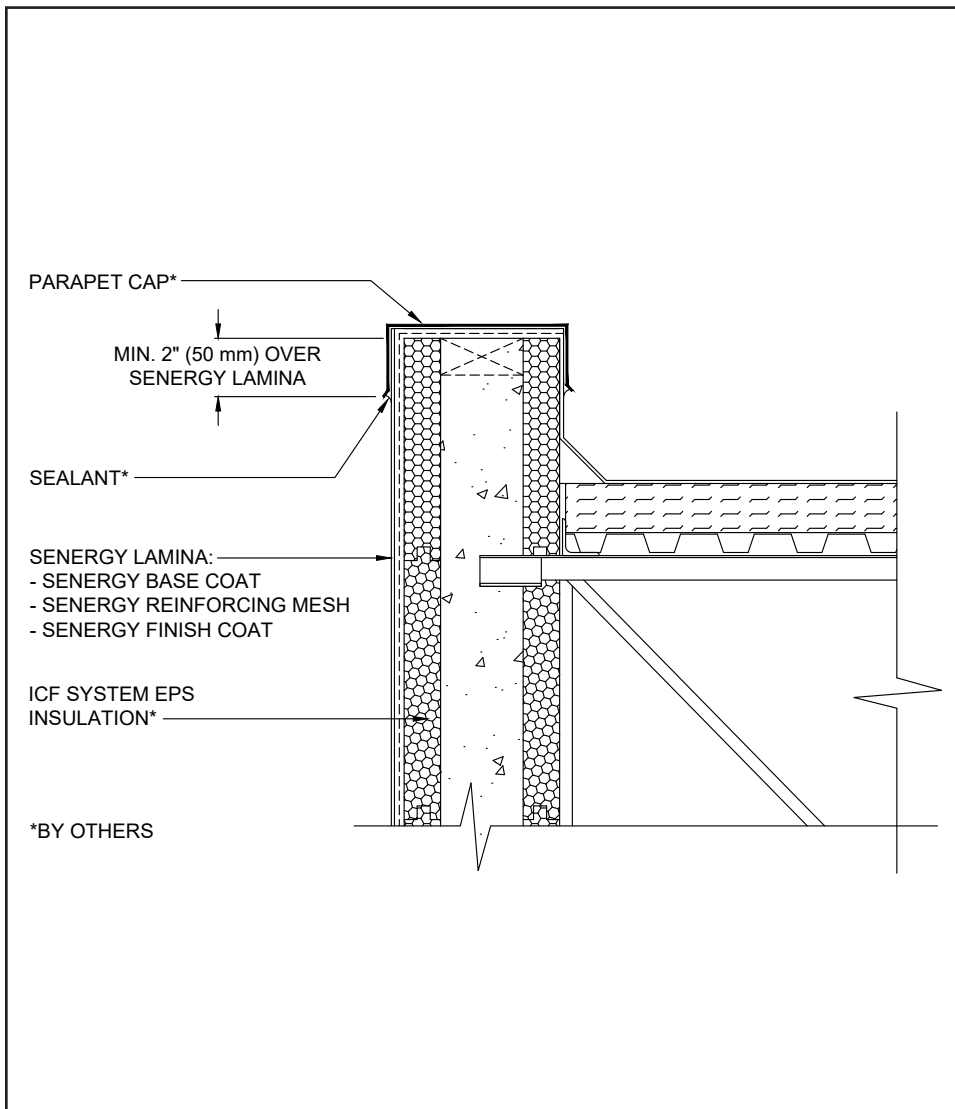
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

# Surfacing System for ICF

## TYPICAL PARAPET



- Ensure that metal coping/flashing extends onto the system a minimum of 2" (50 mm) down the face.

13 0524

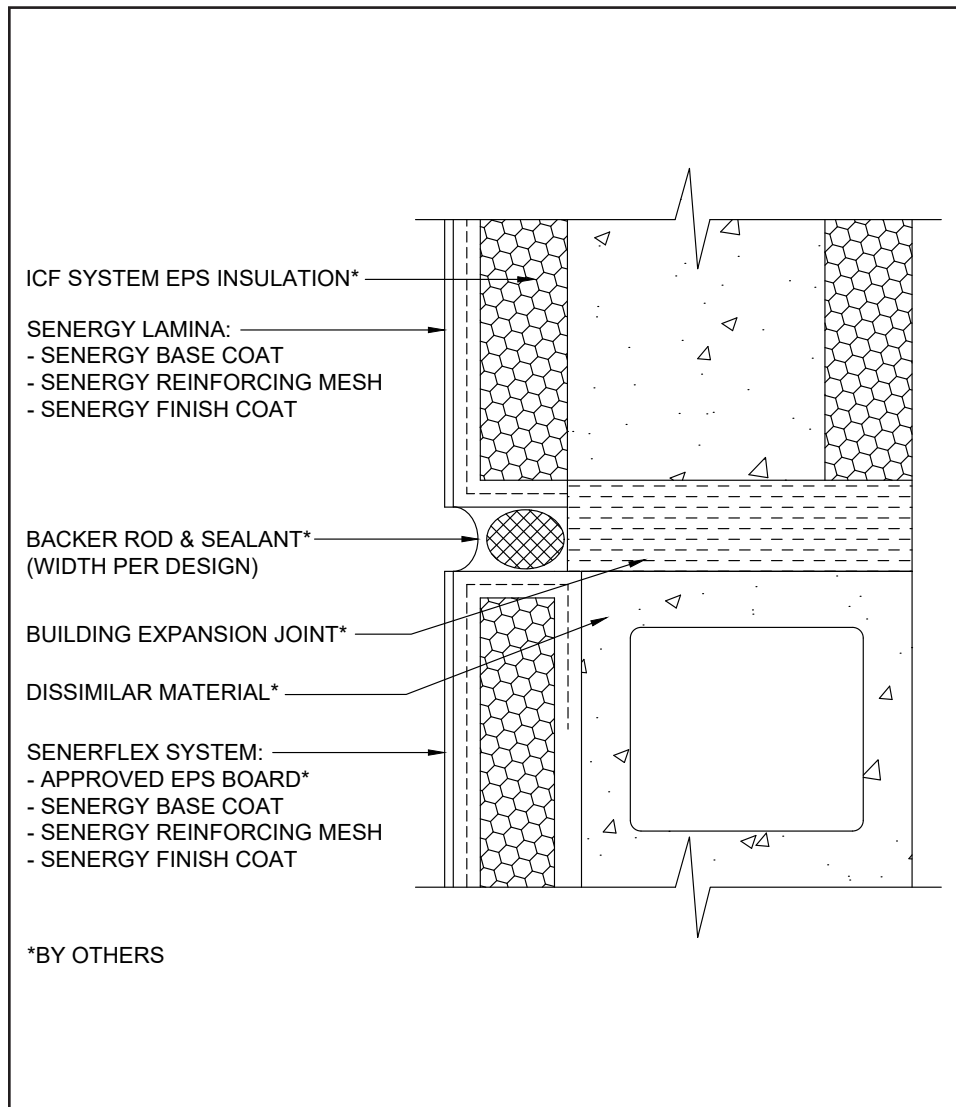
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL TRANSITION TO EXISTING WALL



- Do not apply finish to areas that will receive sealant.
- All terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

14 0524

(\*NOTE: BY OTHERS)

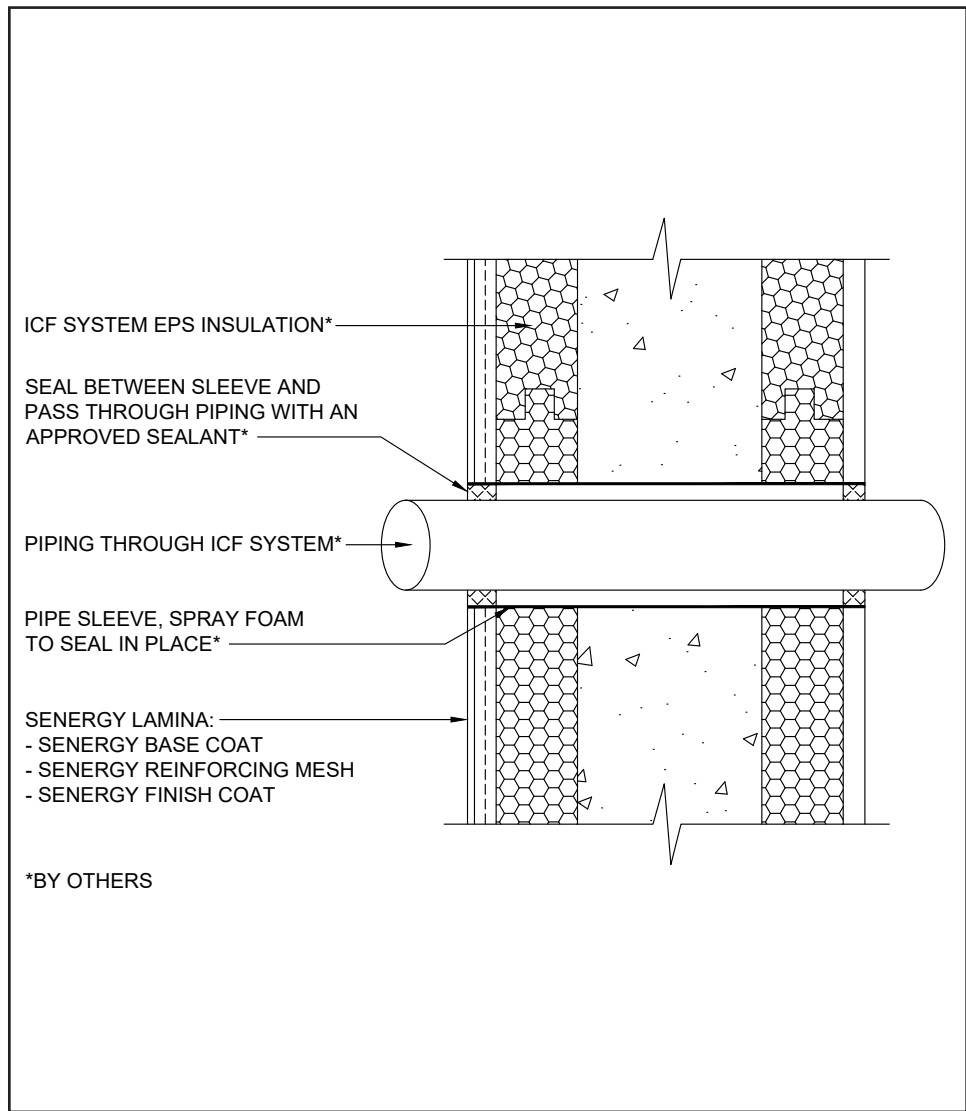
The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.



# Surfacing System for ICF

## TYPICAL PIPE PENETRATION



- Ensure all penetrations into the system are properly sealed. Reference Acceptable Sealants to use with Senergy Wall Systems Technical Bulletin for a list of sealants.
- Do not apply finish to areas that will receive sealant.
- Follow ICF manufacturer's instructions for installing service penetrations.

15 0524

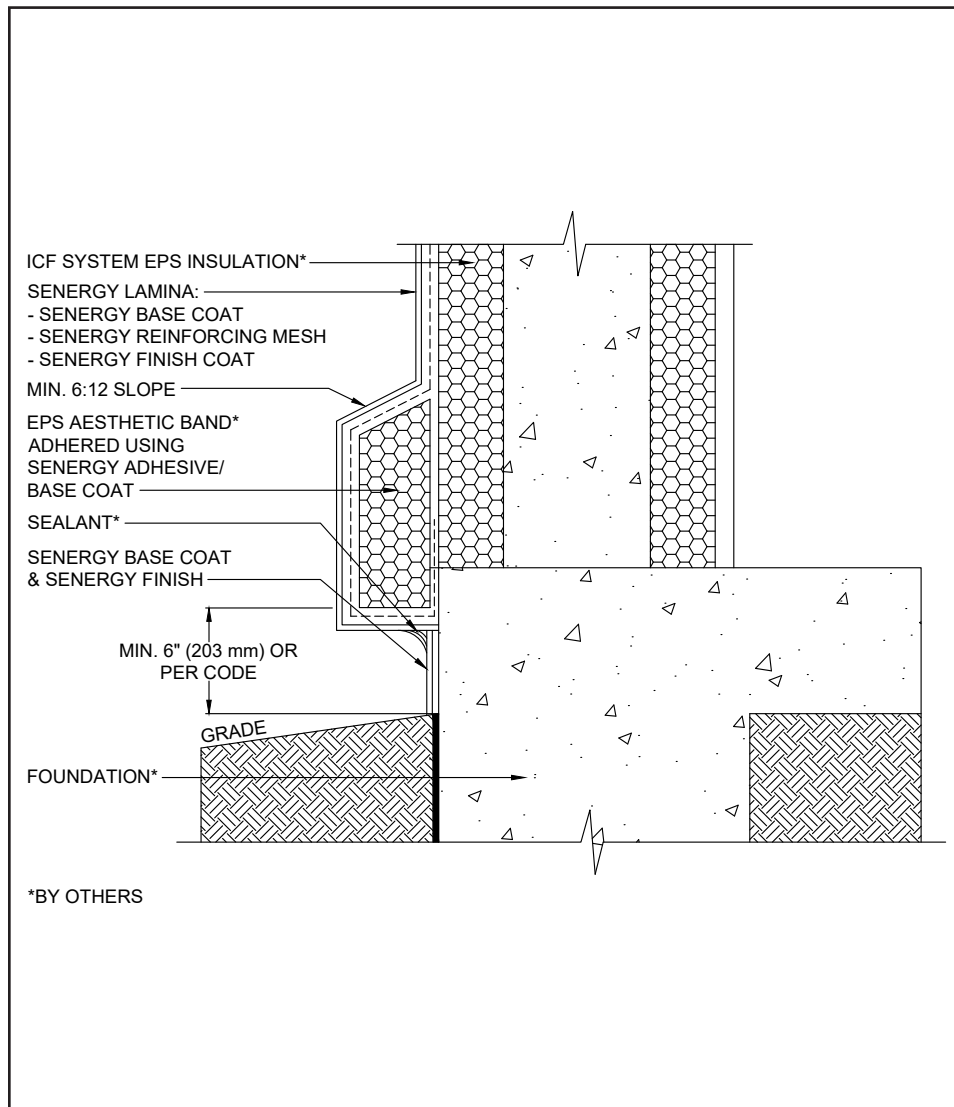
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL TERMINATION AT FOUNDATION



- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope. For sloped surfaces over 24" (340mm), a roofing system or a metal cap flashing is required.
- Terminate system a minimum of 6" (152 mm) above grade.
- Terminations must be fully encapsulated with mesh reinforced base coat. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

16 0524

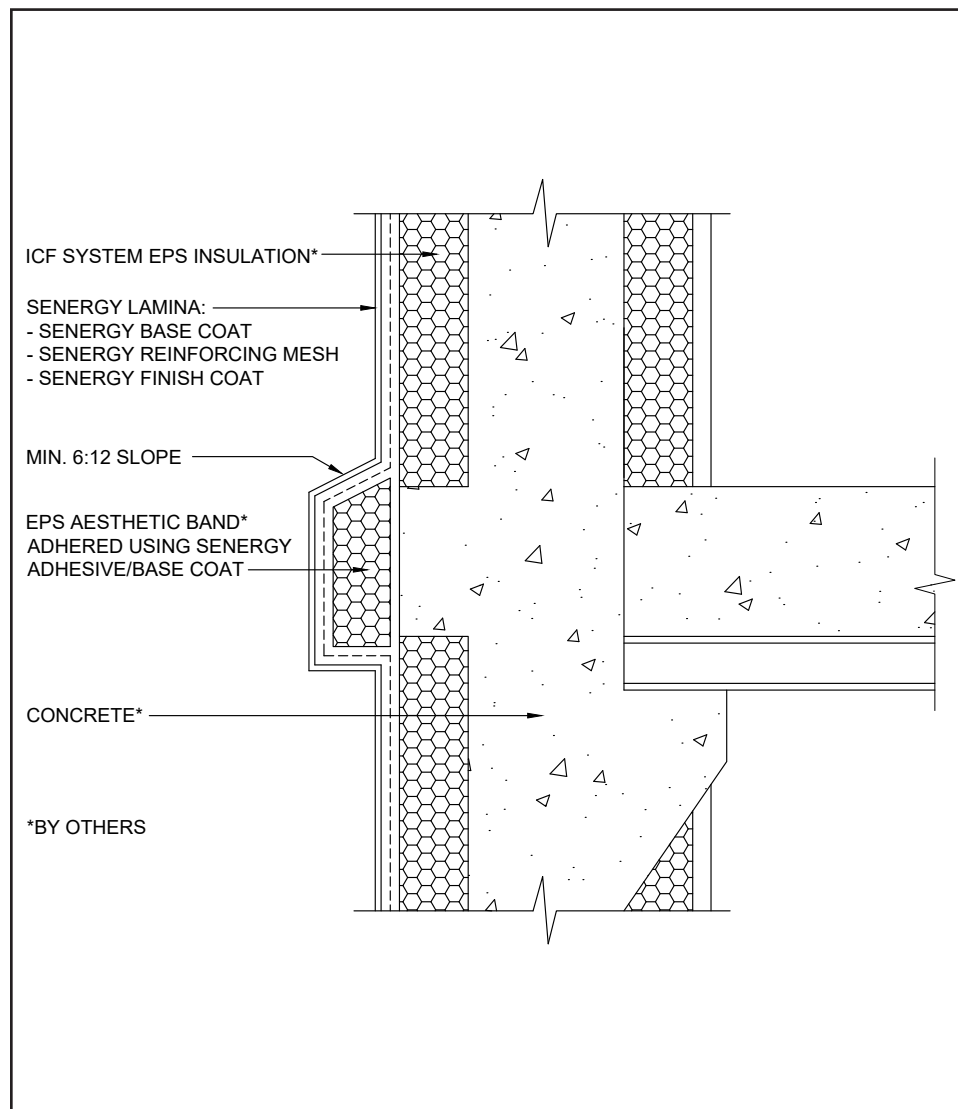
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL NON-COMBUSTIBLE FLOOR LINE



- On horizontal projections greater than 1" (25mm) maintain a minimum 6:12 slope.

17 0524

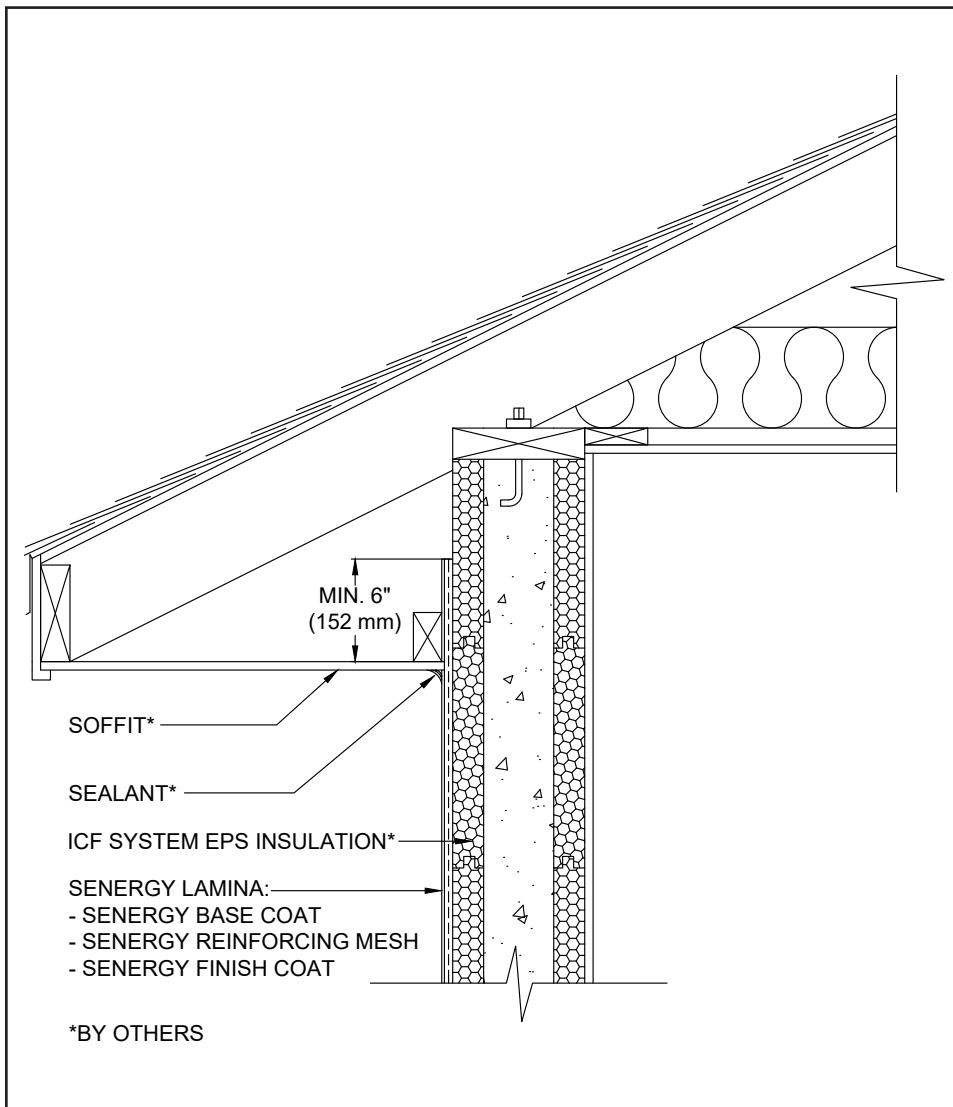
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

# Surfacing System for ICF

## TYPICAL TERMINATION AT SOFFIT



18 0524

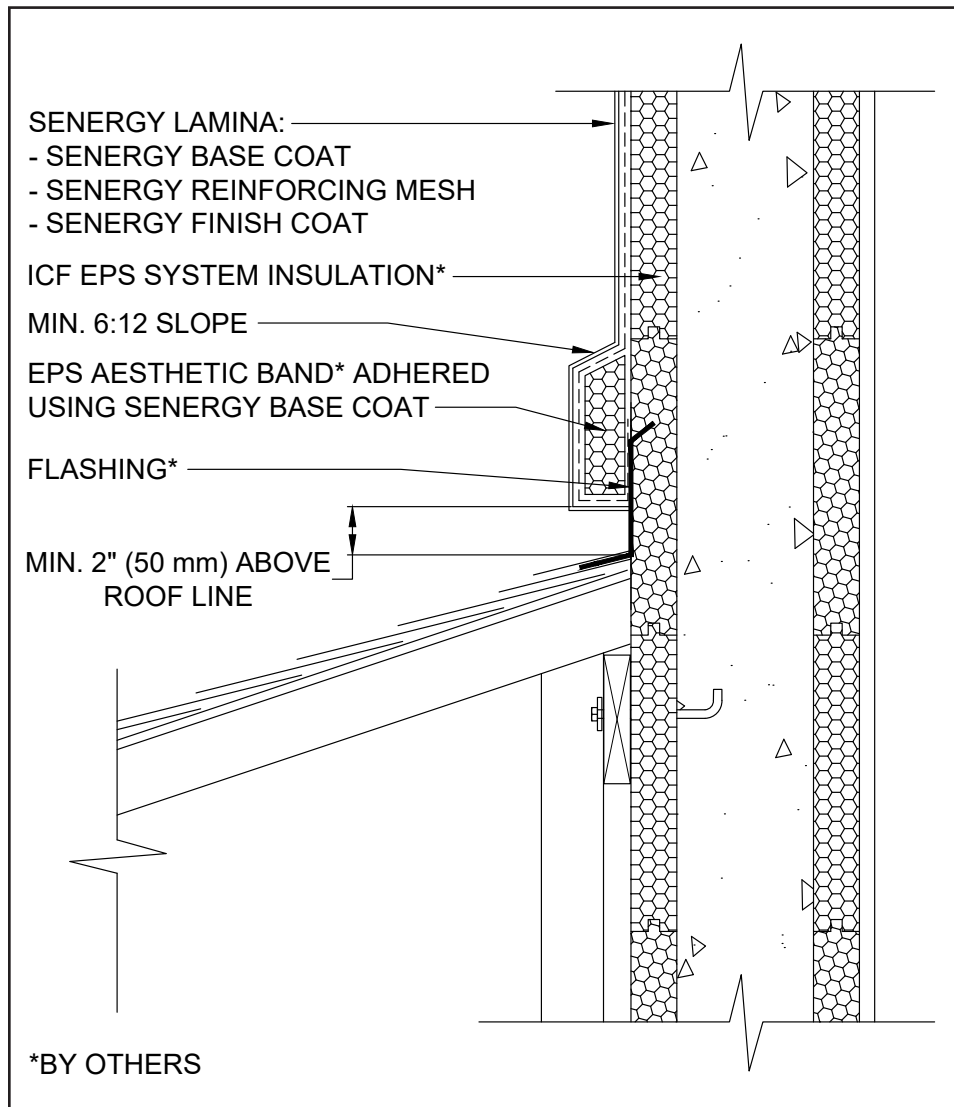
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL TERMINATION AT SLOPED ROOF



- Terminate system a minimum of 2" (50 mm) above sloped roof.
- Terminations must be fully encapsulated with mesh reinforced base coat. Preback wrapping is recommended at drainage terminations. Extend reinforcing mesh a minimum of 2 1/2" onto back of insulation board.

19 0524

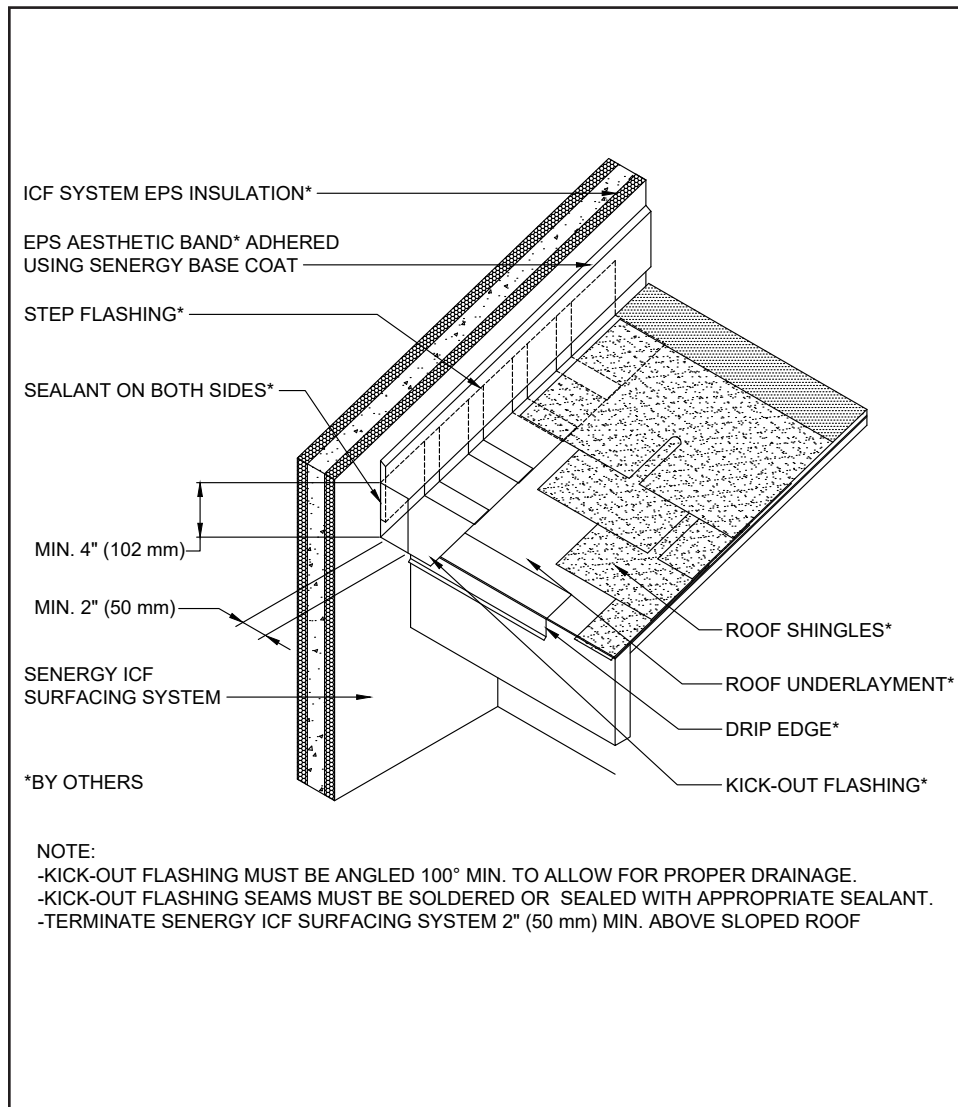
(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

## Surfacing System for ICF

### TYPICAL KICK-OUT FLASHING



- Terminate system a minimum of 2" (50 mm) above sloped 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.
- Kick-out flashing must be angled 100° MIN. to allow for proper drainage.
- Kick-out flashing seams must be soldered or sealed with appropriate sealant.

20 0524

(\*NOTE: BY OTHERS)

The details within are the latest recommendations and are represented in good faith by Sika Corporation US (hereinafter Sika). The details are subject to change without notice. Sika accepts no liability for the end use of the details. For conditions not shown, consult Sika for review of specific details.

- Install Sika materials in accordance with current installation instructions.
- Unsatisfactory conditions shall be reported to the General Contractor and corrected before the application of Sika products.

For the most current version of this literature, please visit our website at [usa.sika.com/senergy](https://usa.sika.com/senergy).

**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071 USA  
Customer Service +1 (800) 433-9517  
Technical Service +1 (800) 589-1336  
[usa.sika.com/senergy](https://usa.sika.com/senergy)

Rev May 2024

**BUILDING TRUST**

