# TECHNOTES

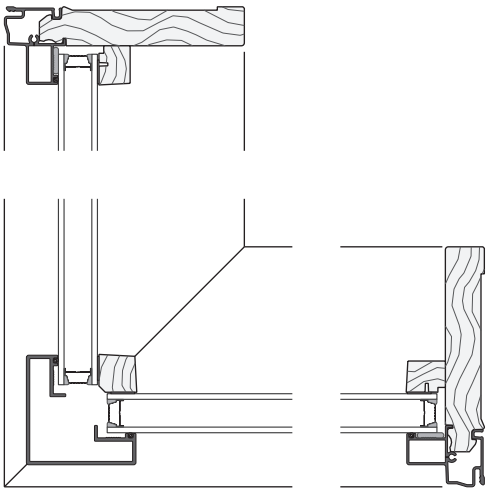
## Inside and Outside Corner Detailing Options for Windows

This Technote provides a variety of inside and outside corner detail options to consider when designing around Pella products.

## OUTSIDE CORNERS

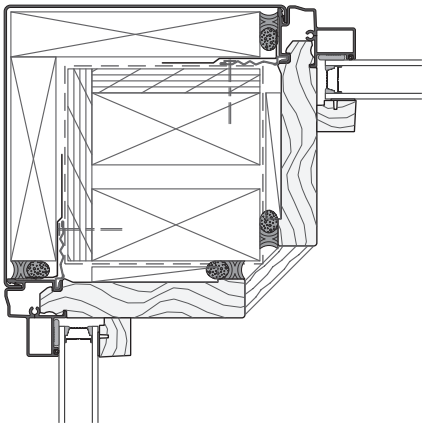
### Mitered Corner Window

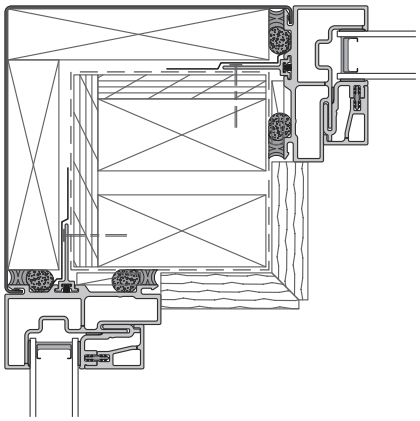
- Available in aluminum clad wood Fixed Frame Direct Set, and aluminum clad wood and wood/wood Fixed Casement windows.
- Fixed Frame Direct Set available as a 90 degree outside corner only.
- Product limitations:
    - Anything larger than a 56″ X 56″ X 72″ requires variance for availability and to confirm limitations on performance.
    - A 56″ X 56″ X 72″ unit has been tested structurally at a DP50 with tempered glass or 5mm annealed. A 37.25″ X 37.25″ X 108″ size unit has a calculated structural value of DP50, as does a 60″ X 60″ X 44.5″ size unit. A 60″ X 60″ X 67.25″ size unit has a calculated structural value of DP40.
    - Anything over 99″ frame height is shipped laying down.
    - Current maximum total square footage is 56 (28 square feet per side).
    - Maximum total glass weight is 255 lbs.
- Stacking limitations (see Mitered Sash Corner Window Weight Support Technote):
    - Maximum glass weight for the top unit on a direct mulled (stacked) composite is 100 lbs.
- Go to Custom Design Manual for mitered corner casement window limitations.



**One Piece Outside Corner Mullion Cover**

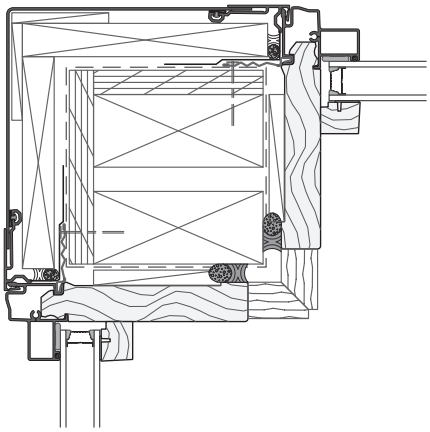
- Can be executed with all aluminum clad wood and fiberglass products.
- Exterior trim: One piece Pella aluminum Mullion Cover 104
- Properties: Requires that product be installed at an exact distance from the corner. Is not flexible with construction tolerances; therefore, it is recommended that its use be limited to single units that do not exceed sixty inches in height.

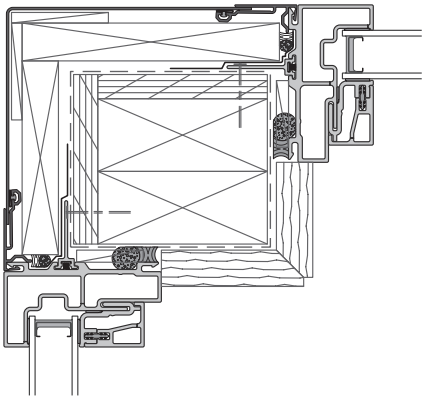




**Three Piece Outside Corner Mullion Cover**

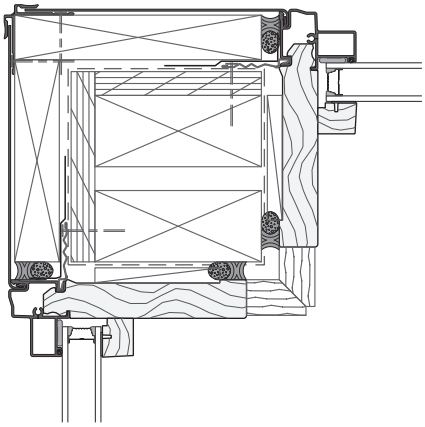
- Can be executed with all aluminum clad wood and fiberglass products.
- Exterior trim: Custom Break Metal #49A1M128 and Expansion Mullion Cover with Vinyl Bulb Gasket 1AAF
- Properties: Allows for expansion and contraction, and construction tolerance variation in corner distance between the two windows while creating a clean corner sightline. It is required that the exterior line of sealant be held back from the face of the frame to allow clearance for the proper attachment of the expansion mullion cover 1AAF.

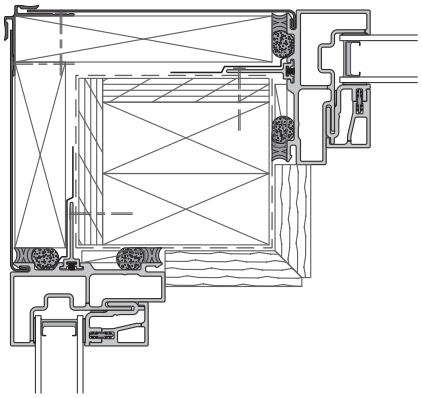




**Four Piece Outside Corner Mullion Cover**

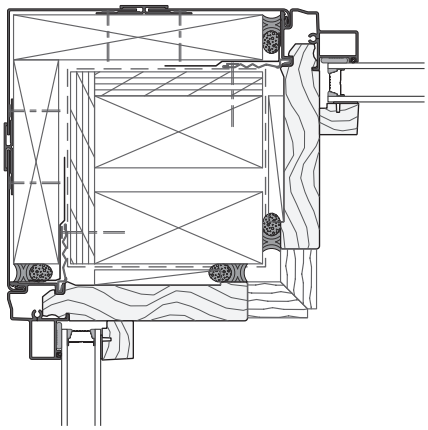
- Can be executed with all aluminum clad wood and fiberglass products.
- Exterior trim: Frame expander and receptor
- Properties: Allows for expansion and contraction, and construction tolerance variation in corner distance between the two windows while creating an articulated corner.

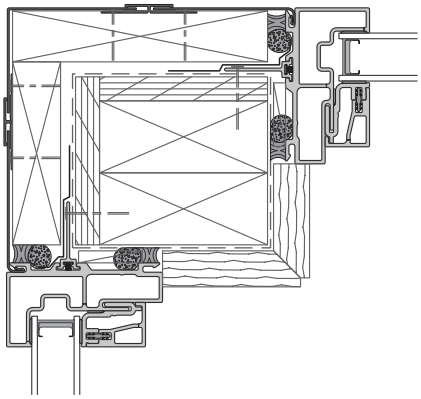




**Five Piece Outside Corner Mullion Cover**

- Can be executed with all aluminum clad wood and fiberglass products.
- Exterior trim: Frame Expander, Expansion Mullion Cover 72HF, Custom Break Metal #49A1M107.
- Properties: Allows for expansion and contraction, and construction tolerance variation in corner distance between the two windows while creating a clean corner sightline.

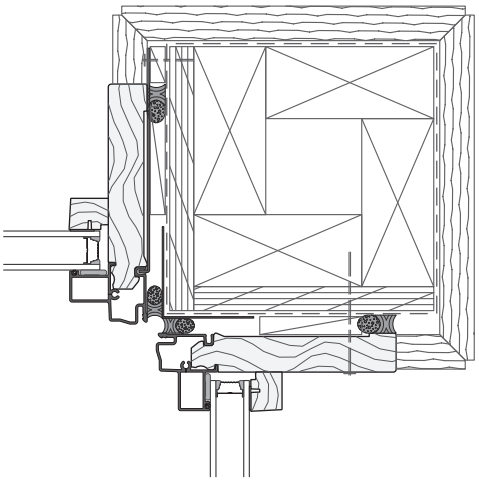


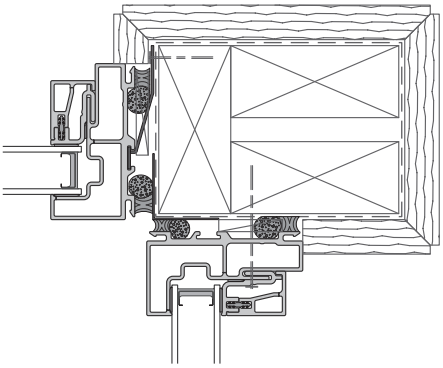


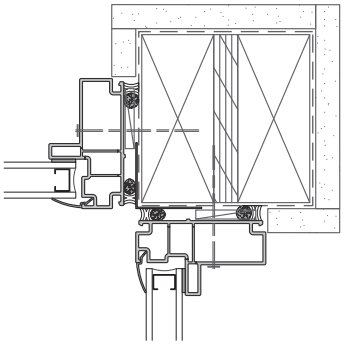
## INSIDE CORNERS

### One Piece Inside Corner Minimum Framing Cover

- Can be executed with aluminum clad wood, fiberglass, and vinyl products.
- Exterior trim: Custom Break Metal #49A1M107.
- Properties: Creates a minimum dimension inside corner. Requires that product be installed with an installation clip or anchor through frame.

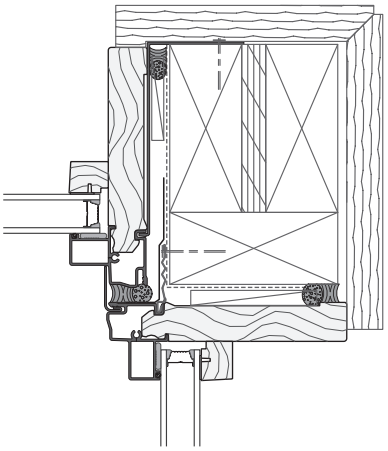


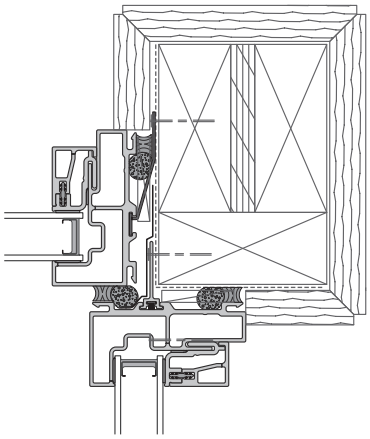




**Minimum Inside Corner**

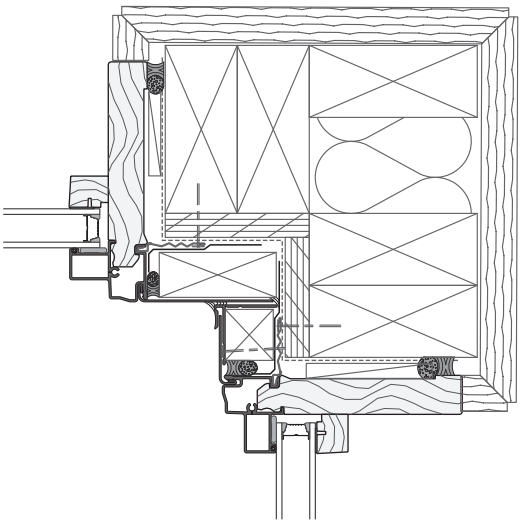
- Can be executed with aluminum clad wood and fiberglass products.
- Exterior trim: Frame Expander.
- Properties: Creates a minimum dimension inside corner. Requires that product be installed with an installation fin on one side and an installation clip or anchor through frame on the other.

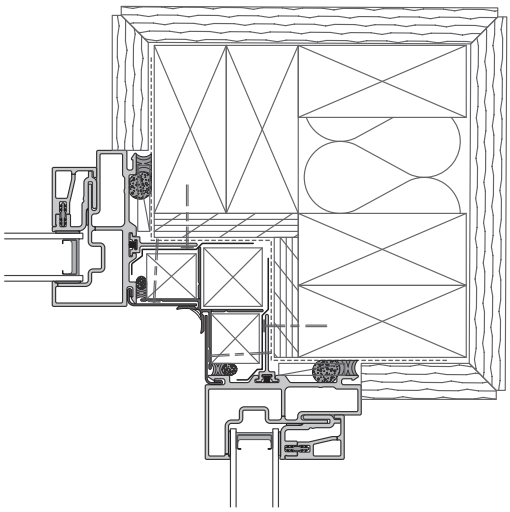




**Three and Four Piece Inside Corner Framing Cover**

- Can be executed with aluminum clad wood and fiberglass products.
- Exterior trim: Frame Expander and Receptor.
- Properties: Creates a minimum dimensioned inside corner that requires clearance for setting both units with an installation fin.





**Additional Outside and Inside Corner Options in Vinyl**

- Exterior trim: Vinyl accessory grooves are incompatible with aluminum accessories and requires trim by others.
- Properties: Requires clearance for setting units with an installation fin.

