

# WINDOWS

CBIA and Energy Commission  
2016 Standards Presentation

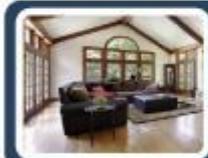
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By

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## Window Profiles

- Custom Systems
- Platform Systems



## Patio Doors

- Assembled Platforms
- Lineal Systems



## Trim Systems

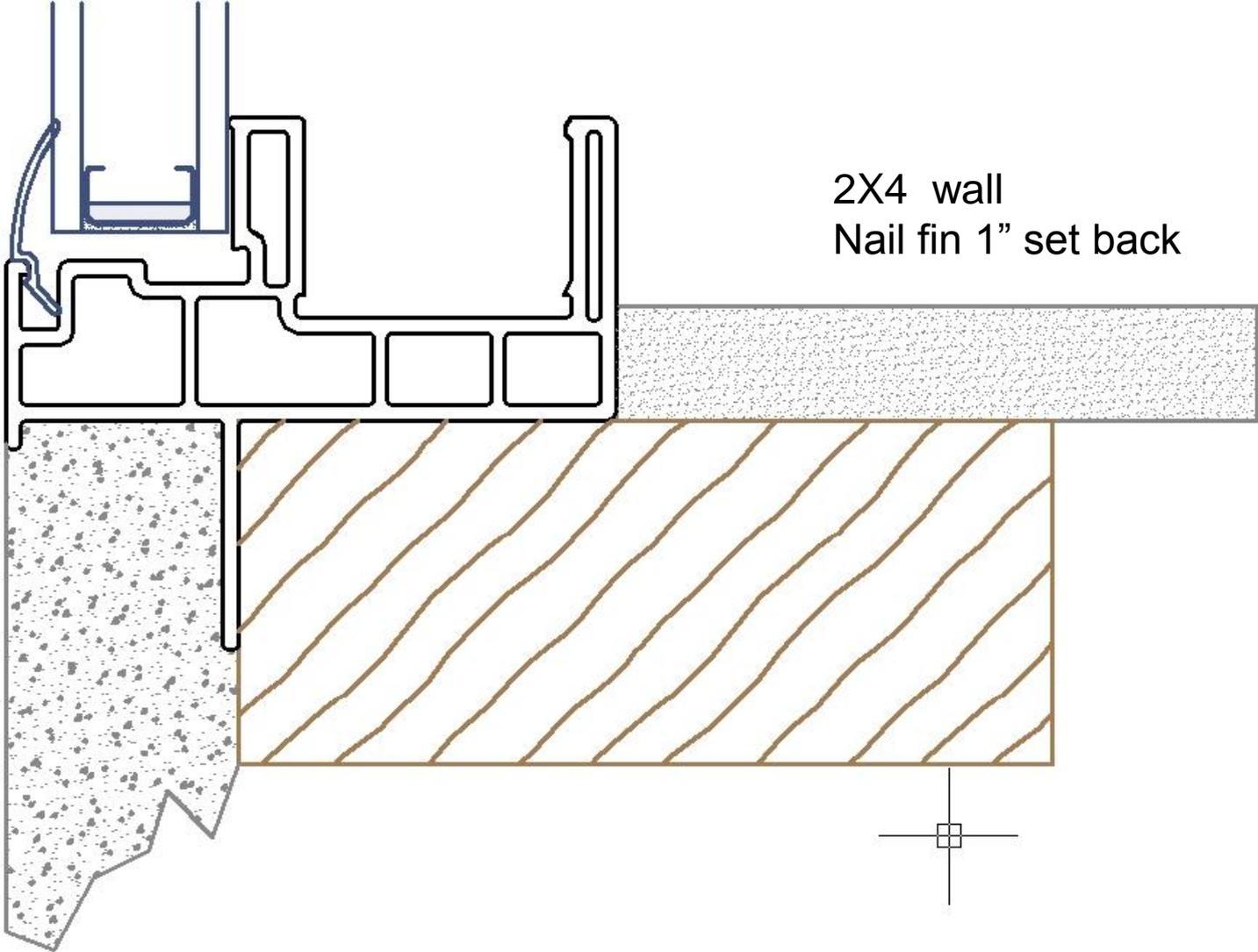
- Interior
- Exterior



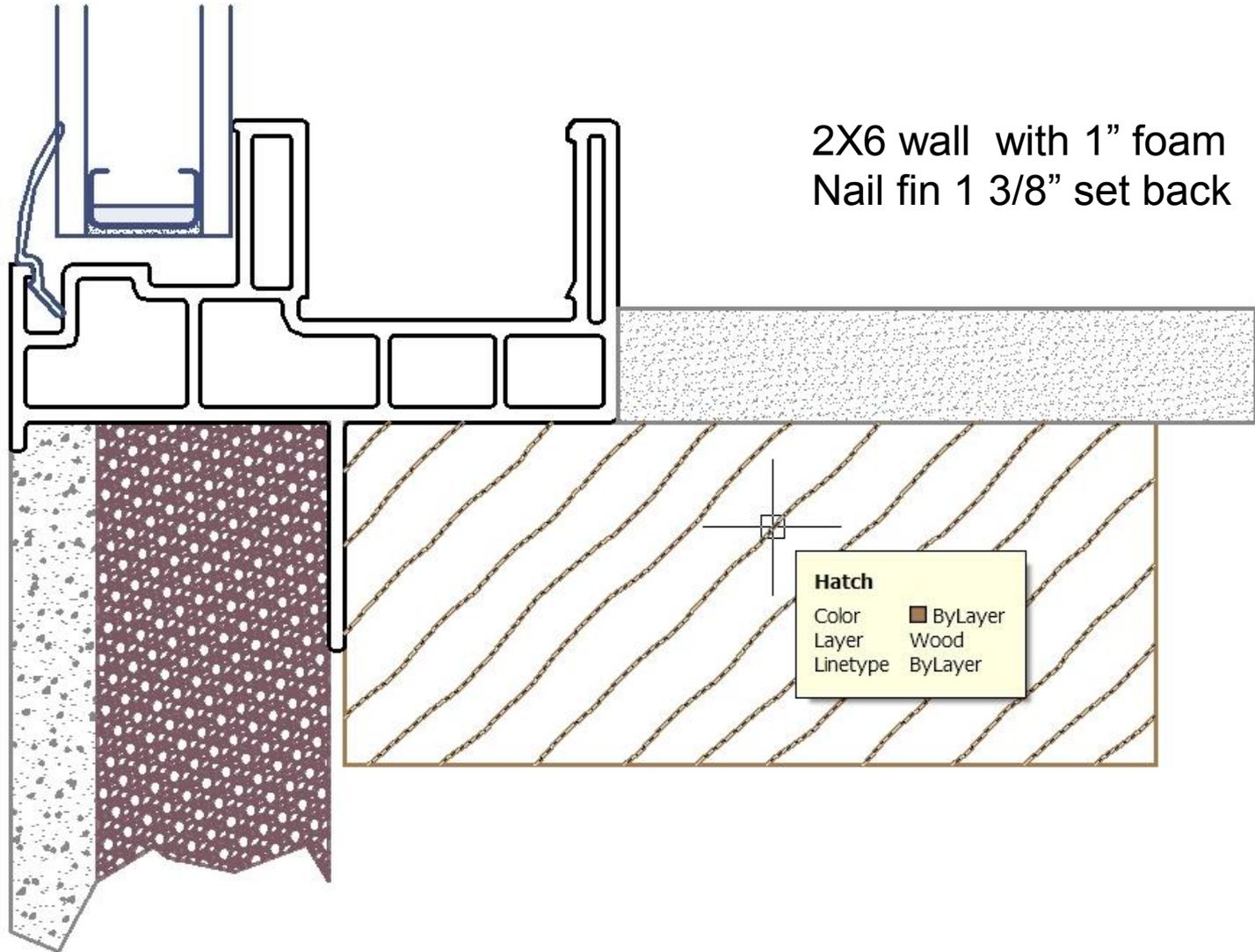
## Color Solutions

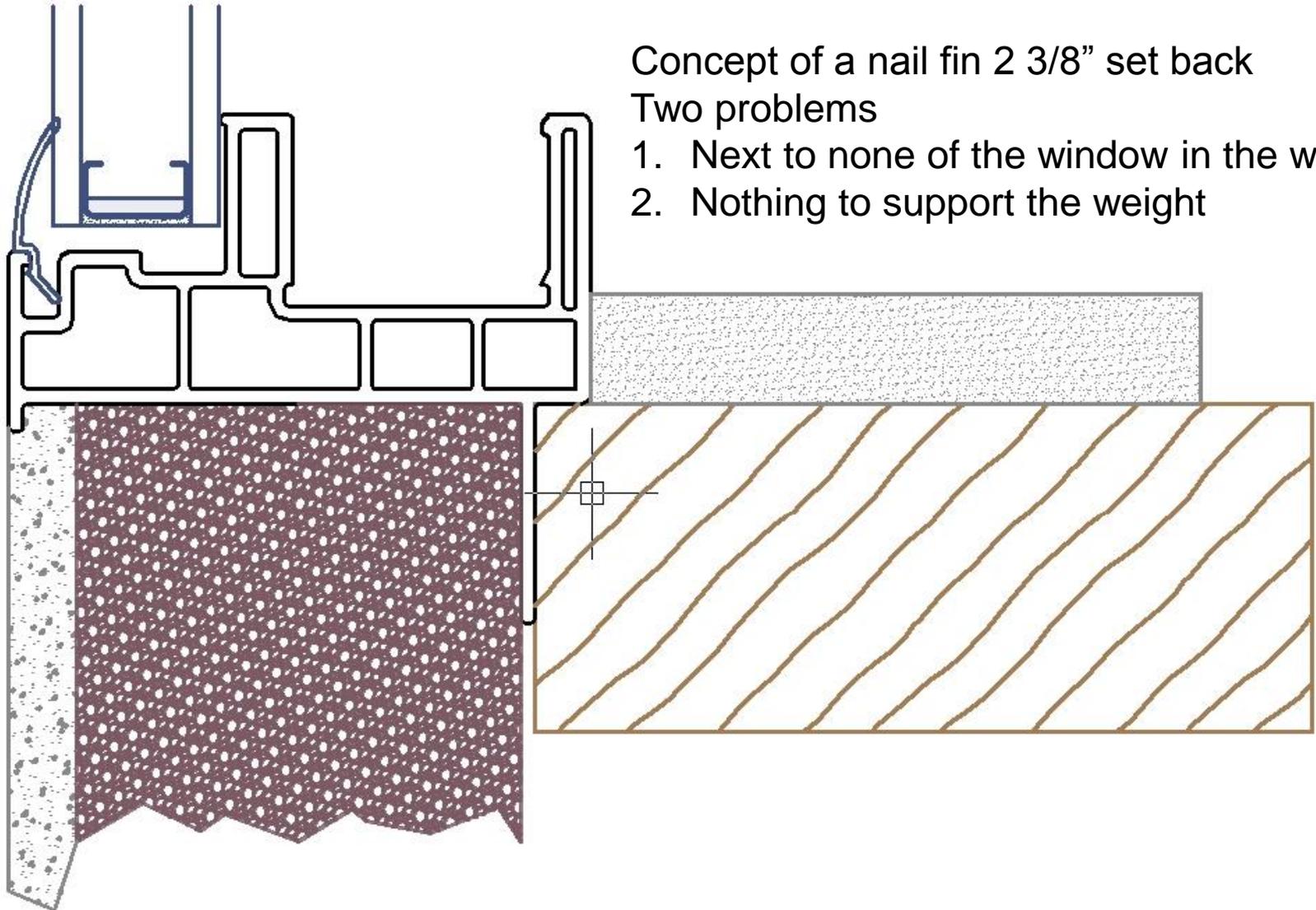
- Paint
- Solid Color Extrusions

# Traditional 3 Coat Stucco



# Traditional Power wall



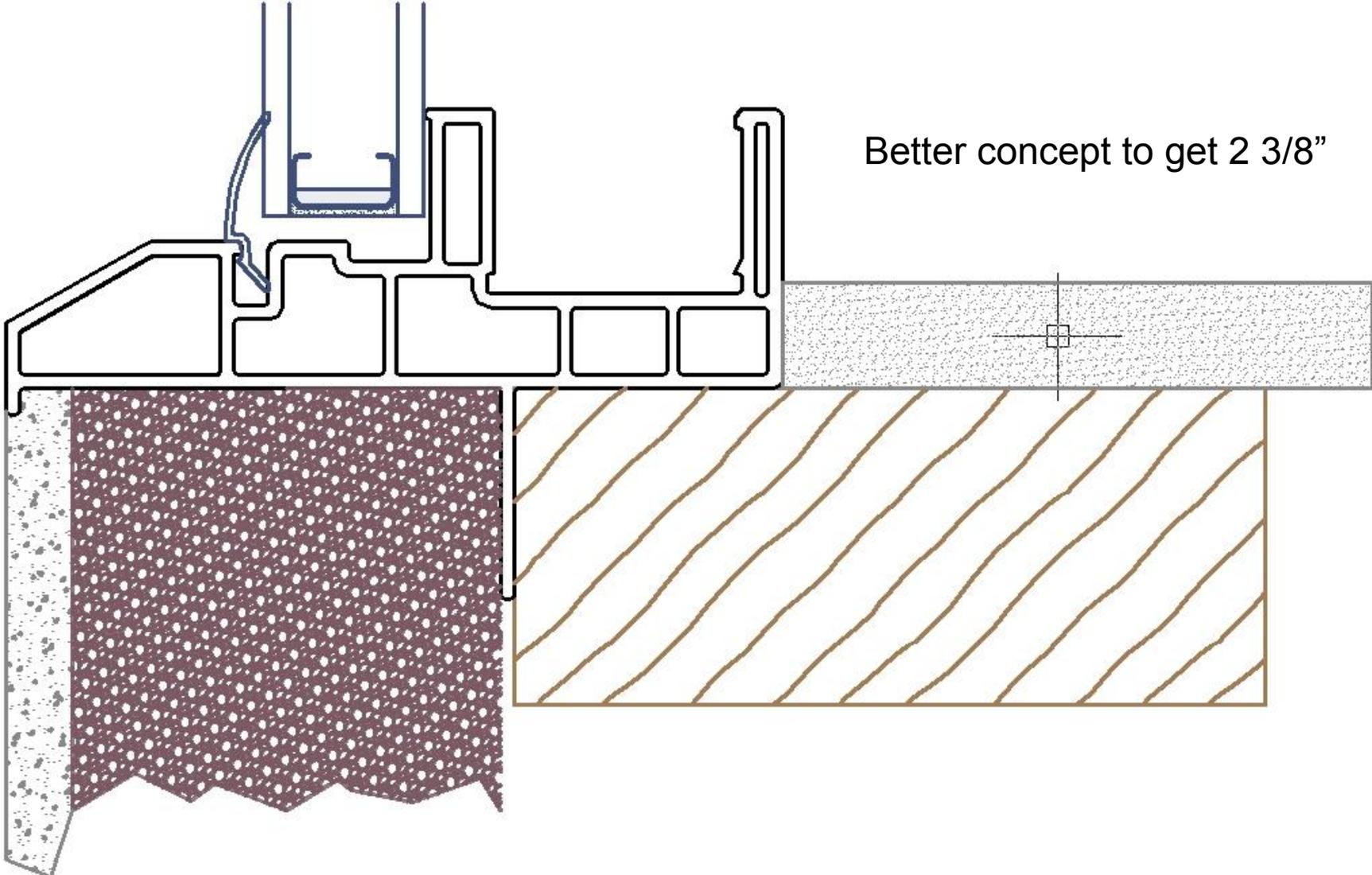


Concept of a nail fin 2 3/8" set back

Two problems

1. Next to none of the window in the wall
2. Nothing to support the weight

# Most likely the design



Better concept to get 2 3/8"

- Design and approve Window Frames
- Cut Extrusion Dies
- Design and Approve Fabrication Process tools
- Cut the Fab Tools
- Make test Samples and Testing
- Plan and implement inventory transition
- Complete Transition

- Slider-Single Hung
- Picture window
- Casement
- Patio Door
- Swing Doors and specialty doors\*
- STC windows \*
- Double hung \*

- \* not all customers have

- Four tools at Approx \$50,000 per tool
- \$200,000
- 5 customers
- \$1,000,000 just in Extrusion dies
- We have more then 5 customers in CA
- More the 5 customers outside the state that sell into CA
- NOTE: Most Customers have at least Good-Better

- Weld Fixtures Approx. \$5,000 each X 2
- Saw Fixtures Approx. \$5,000 each X 2
- Punch or Router fixtures \$5,000 each X 4 (main Products)
- Window will be thicker
- Less windows per trucks in Transportation

- Least 18 months to 2 years:
  - Design / Approve Window
  - Cut Extrusion Dies and Process tools
  - Test Product
  - Inventory– manufacturing and dealers
  - Complete conversion

- **Problems With Time Frame**
  - Extrusion Die Capacity
  - Fab Tool Capacity
  - Test lab Capacity

 **ROYAL**  
Building Products