## Residential Tilt-Up Wall

A Concrete Love Story: Starring Characteristics

> Thermal Mass Air Sealing Structure Electrical Cavity Pigmented Plaster Finish



# Tilt-up developed from large box commercial construction



## We are adapting tilt-up for low-density multifamily residential



Mock-Up Wall #1









### Sequence of the assembly key to costs





#### Join and adhere CAD-cut EPS Blocks



### Foam serves as materials template



Insert and adhere pressure treated 2 x 6 nailers



Insert window complete with ext jamb extensions





## Apply drainage mat



Fasten 2x10 rough sawn vertical hemlock siding



## Flip wall over



Add wall fasteners, form boards, window extension jamb, foam window



Drop in rebar, electrical, embed plates, lifting points



Pour concrete with pigment and trowel to finish



# Assembled wall ready for tilt-up

Mock-Up Wall #1

#### Wall Assembly designed for 48 unit net-zero project in Newburyport, MA. PHIUS standards achievable per WUFI modeling of phase I



## **Thank You!**

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