FOLLOW THE LITTLE RED LINE  DEVELOPING AND EXECUTING AIR SEALING STRATEGIES FOR PANELIZED BUILDINGS
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PROJECT & TEAM
ENERGY MODEL  R-VALUES

Workshop

House (Design Certified Phius Core 2021)
ROUGH ORDER OF MAGNITUDE

SCOPE UNDERSTANDING – WORKSHOP
STANDARD PANEL DETAILS

SCOPE UNDERSTANDING

- TF Post
- Sheathing
- Intello Plus leader to tape to middle of rim
- subfloor sheathing
- PT Sill Plate
- Intello Plus to extend from below floor framing to middle of rim
- Nose Plate
- Stud/Hemp
- Batten
- Steico
- Service Cavity
- Mento Plus
- Sill
- Steelico
- LVL Rim

LEVELING 12G GARSET Taped to End of Wall
SHEATHING Taped to Outside F.O. Framing

HBR5140 PANEL SCREW @ 2" O.C.

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SCOPE DEFINITION | WORKSHOP

FLOOR FRAMING

BUILDER
SCOPE DEFINITION | WORKSHOP

STRUCTURAL TIMBER FRAME

PANEL MANUFACTURER
SCOPE DEFINITION | WORKSHOP

XP20 WALL PANELS
PANEL MANUFACTURER
Air Barrier Leaders
SCOPE DEFINITION | WORKSHOP

XP20 ROOF PANELS

PANEL MANUFACTURER
SCOPE DEFINITION | HOUSE

FLOOR FRAMING & LOADPATH

BUILDER
COMPLETE ROOF SCOPE
MANUFACTURER + BUILDER
SCOPE DEFINITION | HOUSE

XP20 ROOF PANELS
PANEL MANUFACTURER
SCOPE DEFINITION | HOUSE

PANEL CONTROL LAYERS
WRB | AIR BARRIER LEADERS
SCOPE DEFINITION | HOUSE

PANEL CONTROL LAYERS
AIR BARRIER LEADERS - INTELLO
SCOPE DEFINITION | HOUSE

PANEL CONTROL LAYERS
BUILDER SCOPE AIR BARRIER LEADERS - INTELLO
‘TRICKY SPOTS’ DISCUSSION BETWEEN MANUFACTURER, PRODUCTION DESIGNER & CPHC
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PANEL PARTS AND RELATIONSHIPS – DORMER TO MAIN ROOF ASSEMBLIES
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AIR TIGHTNESS CONTINUITY – RED LINE FROM HEAD TO TOE
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GASKET
AIR TIGHTNESS CONTINUITY – RED LINE FROM HEAD TO TOE
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[Diagram showing panel-integrated structure with a red line indicating continuity from head to toe]
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GEOMETRY APPROVAL DRAWINGS
PANEL PARTS AND RELATIONSHIPS – A LOOK AT WALL PANEL MN-4
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FACTORY REVIEW PROCESS

Can the leader that turns to the exterior be trimmed to edges of framing? On the exterior, this gets us to the outside corner of the floor system.

a. Extend Mento to wrap around the corner and terminate at the edge of wall.
FACTORY REVIEW PROCESS

35. Garage Jack Walls
   a. What’s the air sealing strategy around these beams? Are these beams going in after the walls?
   b. If this is field applied, I think these (4) battens need to be as well. Maybe the sheathing needs to go all the way to the roof here also?
   c. Why are there so many screws holding these battens on?

   a. We’re going to need section cuts/sequencing details included in the geometry drawings for the pressure boundary transitions at this garage demising wall.
PANEL FABRICATION

Add slide of wall in shop if we can get 1 or 2 out of Johns timelapse on Monday.
PANEL INSTALLATION WORKSHOP
PANEL INSTALLATION HOUSE
PANEL INSTALLATION  HOUSE
PANEL INSTALLATION HOUSE
WINDOW INSTALLATION

WRB (Soltex Mento Plus)  
Factory

WRB (Soltex Mento Plus)  
Stapled close to corner  
Factory

EXPANDING TAPE (Contega Fiden Exo 9/16" 3mm - 6mm)  
Builder

Air Barrier - Zip Sheathing  
Factory

Window Cavity Insulation  
Builder

TAPE (Tescon Vana 60 mm)  
Factory

TAPE (Tescon Profekt 50mm x 30m)  
Window taped to R.O.  
Builder

Window Cavity Insulation  
Builder

Metal Sill  
Builder

Pan Flashing (12" Exoseal Encors)  
Builder

WRB (Soltex Mento Plus)  
Factory

TAPE (Tescon Profekt)  
Window taped to R.O.  
Builder

EXPANDING TAPE (Contega Fiden Exo 9/16" 3mm - 6mm)  
Builder

Air Barrier - Zip Sheathing  
Factory

WRB (Soltex Mento Plus)  
Stapled close to corner  
Factory

WRB (Soltex Mento Plus)  
Factory

Inside

Outside
with our membrane leaders that have been put in place