

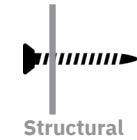
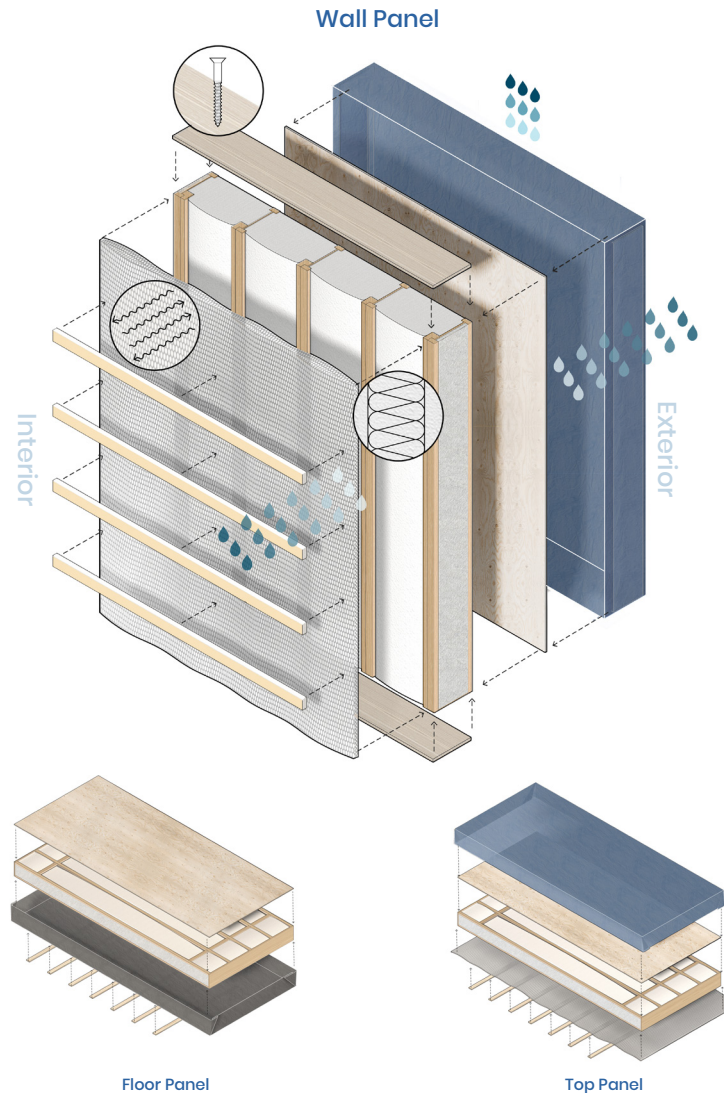


Technical Overview | Series D (spring 2022)

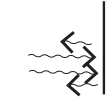
Off-Site Panelized Structural Thermal Building Envelope

Series D updates include a fully-adhered weather barrier on wall and top panels. Exterior furring strips are now an option and are no longer standard on wall panels. Improvements and component updates occur quarterly and are based on strict building science findings, performance benchmarks, and continued panel optimization & standardization.

The B.PUBLIC Prefab component system is designed and assembled to create a building's structure & thermal envelope. B.PUBLIC panels utilize code-compliant wood framing & sheathing. The system is thermal-bridge-free, vapor-open, air-tight, and super-insulated with dense-packed cellulose. The panels are wrapped and sealed with air and weather-resistant barriers. The panelized building blocks of Floor, Wall, and Top components work together to create a structural shell ready to be finished with interior and exterior finishes. Our team is trained to support professionals designing with B.PUBLIC components.



Structural



Interior Air-Barrier



Weather-Tight



Thermal-Bridge Free



Vapor-open



Fully Insulated



Carbon-Positive



Recycled Content



Speed Construction

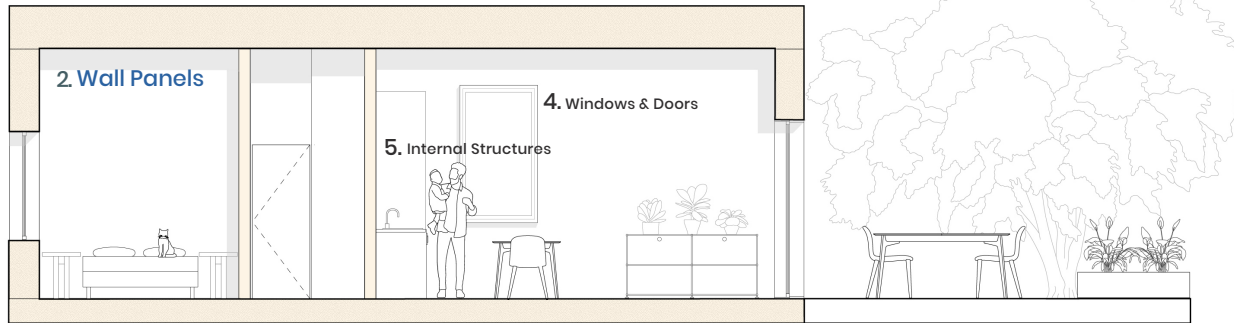


Low-Energy / Electric Only

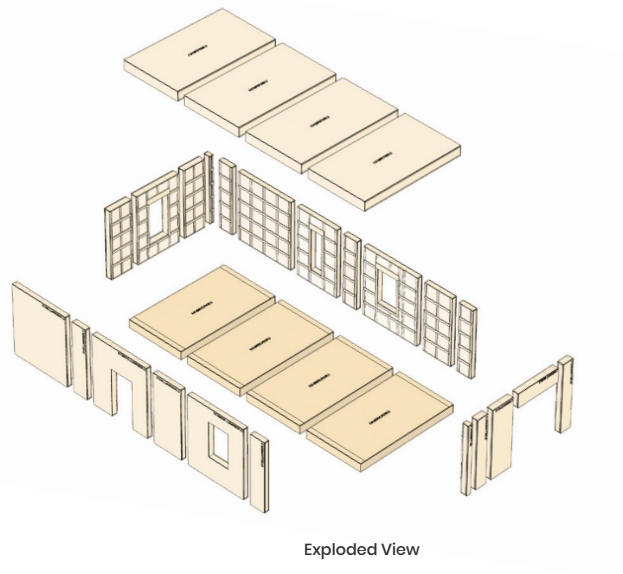
Technical Overview | Series D (spring 2022)

Off-Site Panelized Structural Thermal Building Envelope

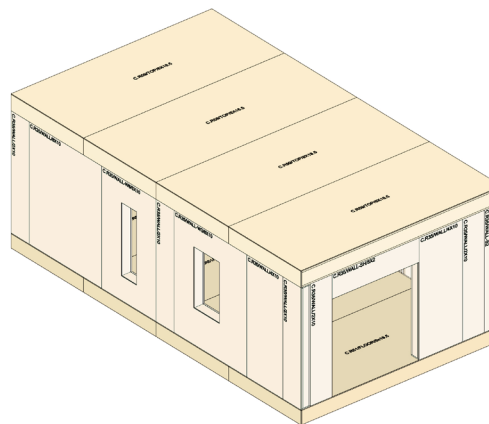
1. Top Panels



3. Floor Panels



Exploded View



Assembled View

1. Top Panels R-value 59 or R-80

- Wood framing & 5/8" plywood sheathing
- Dense-packed cellulose insulation
- Continuous, fully-adhered weather barrier applied to sheathing & panel edges
- Continuous interior air barrier with seams taped
- 1 1/2" interior service cavity framed by horizontal furring strips for finish attachment

2. Wall Panels R-35 or R-52

- Wood framing & 1/2" plywood sheathing
- Dense-packed cellulose insulation
- Continuous, fully-adhered weather barrier applied to sheathing & panel edges
- Continuous interior air barrier with seams taped
- 1 1/2" interior service cavity framed by horizontal furring strips for finish attachment

3. Floor Panels R-51

- Wood framing & 3/4" plywood floor decking
- Dense-packed cellulose insulation
- Continuous weather barrier applied to underside of framing & panel edges
- Exterior wood strapping applied to underside of framing

Beyond the Panels ...

4. In order to create a continuous thermal envelope, **windows and exterior doors** are required. B.PUBLIC wall panels are designed to receive a variety of install details. The use of triple-pane Passive House Institute Certified insulated glass units is recommended. B.PUBLIC does not sell windows and doors but can connect clients with approved partners.

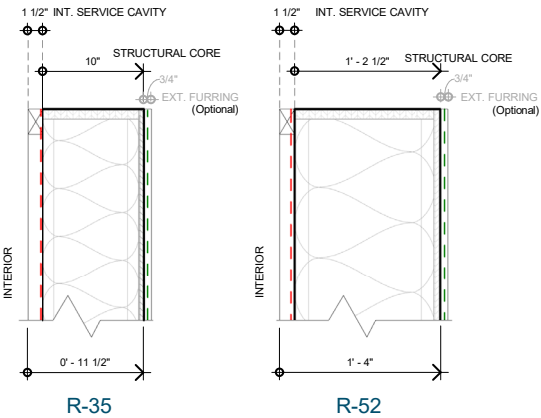
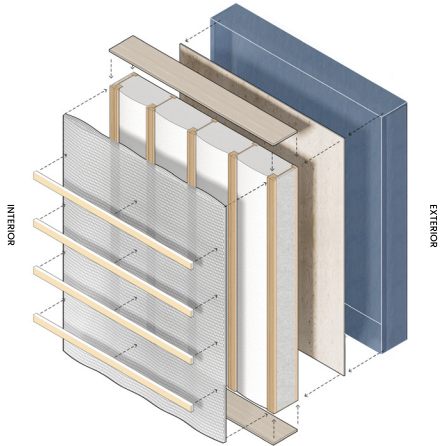
5. Interior **mid-floors** and other **structural elements** required for completion of the primary building envelope may be addressed by a local builder or approved installer and will be evaluated on a project-by-project basis.

Panel installation on-site requires an experienced and approved subcontractor to the local builder.

Wall Panels

R-35 or R-52

9/1/21 series D

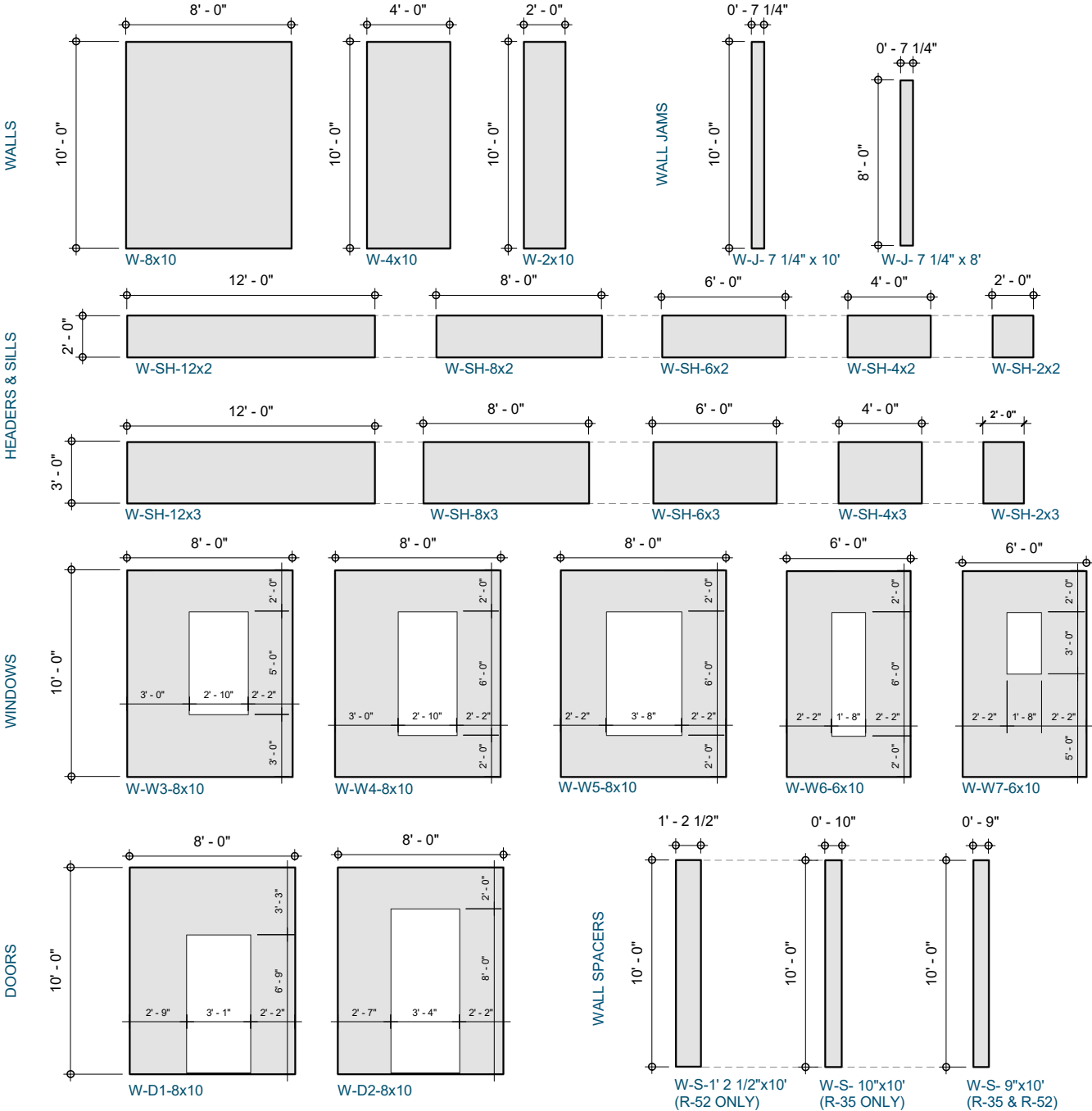


PRIMARY WALL COMPONENT DIMENSIONS & PERFORMANCE

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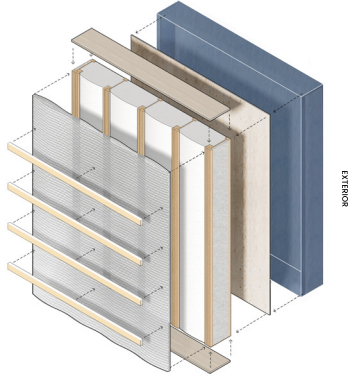
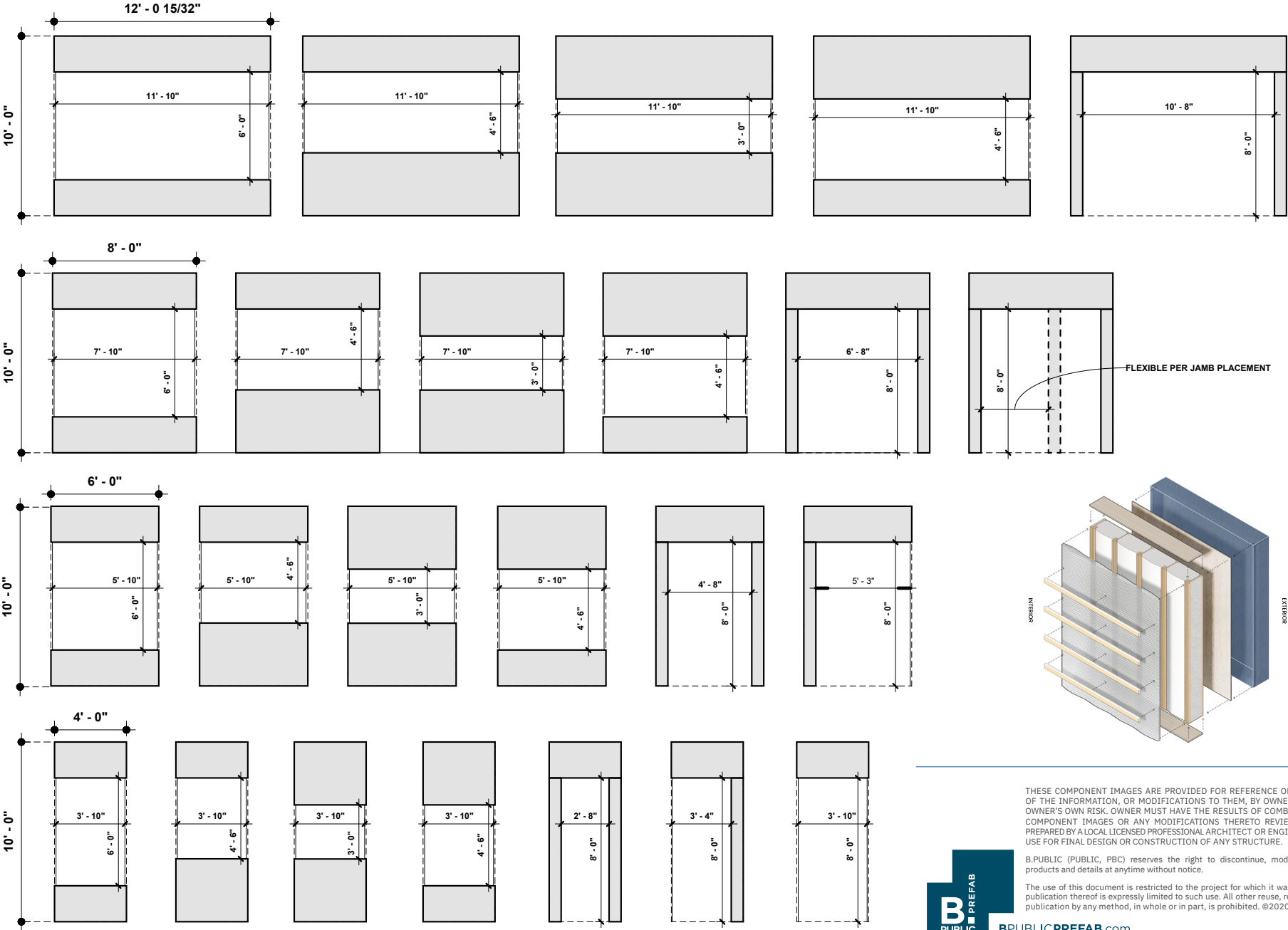
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Wall Options

R-35 or R-52

9/1/21 series D



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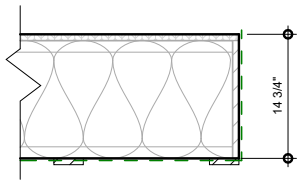
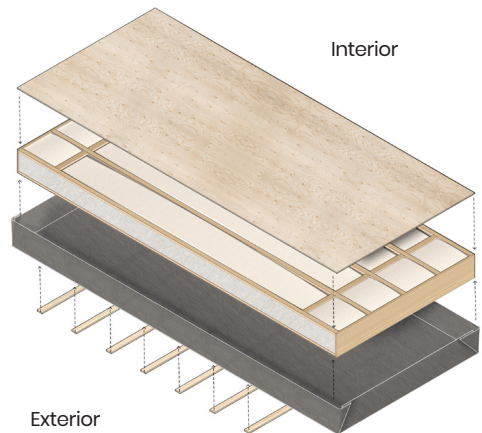
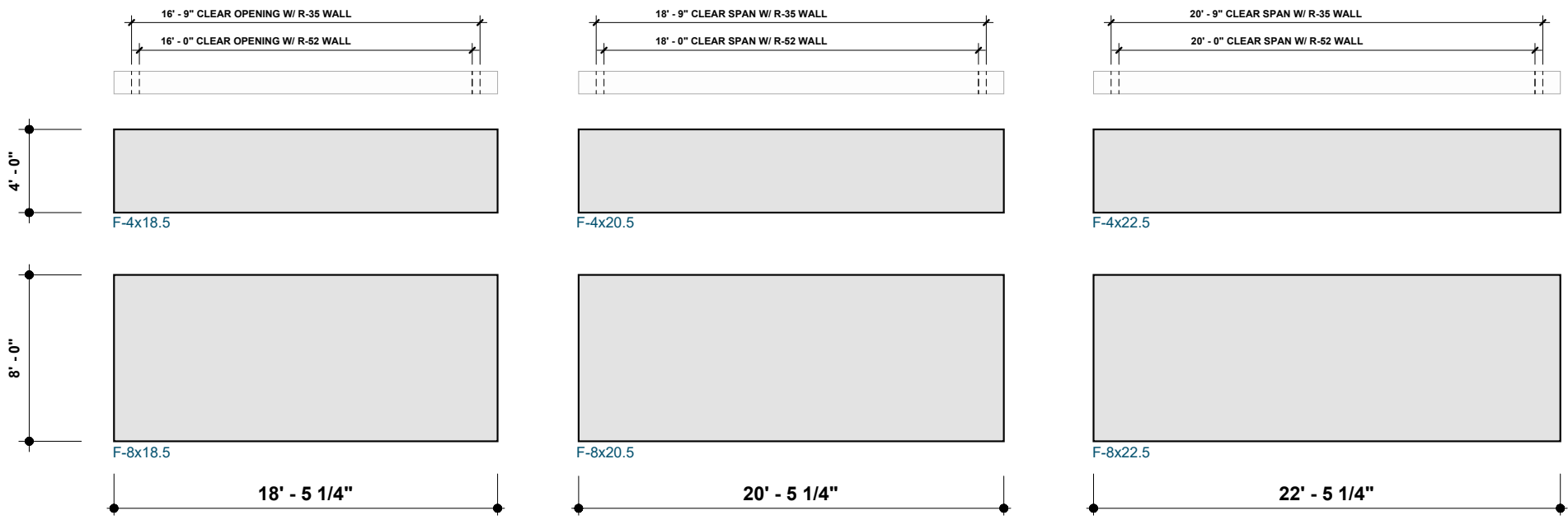


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Floor Panels

R-51

9/1/21 series D



Standard Exterior: 3/4" Battens at 24" OC
Standard Interior: 3/4" Subfloor

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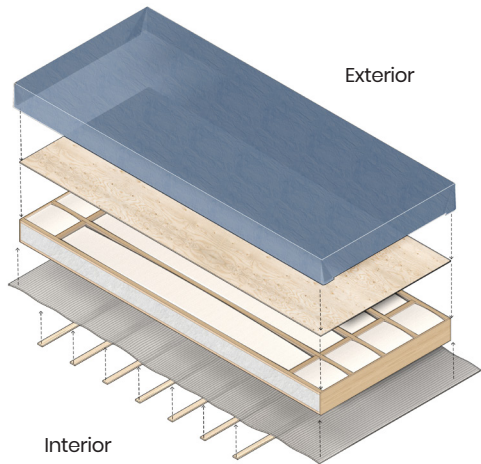
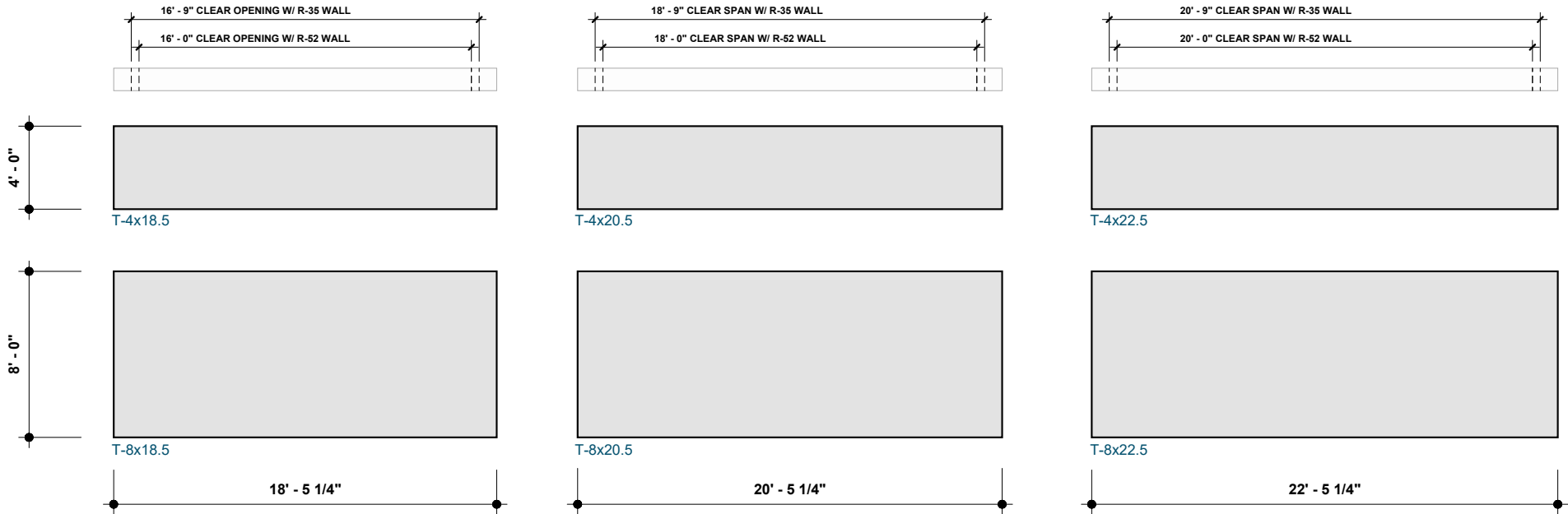
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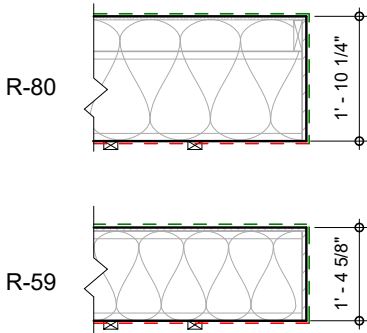
Top Panels

R-59 or R-80

9/1/21 series D



All top panels are available in two performance levels.
Standard Interior: 1.5" Service Cavity with Furring at 24" OC
Standard Exterior: 5/8" Decking with WRB



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