

Hose Stream Prop - Construction Recommendations	
Floor System (Hallway AND Room)	<ul style="list-style-type: none"> Crown all floor joist material. Cut wood scrap or use cinder block to level and prop the wood beams off the ground. Mark joist layout on beams from interior (ensure layout pulled from the same direction). Confirm all joists are crowned and the crown is installed up. After all joists are installed confirm the beams and floor system is level in all directions. Square the floor system by measuring corner to corner on the diagonal. Confirm the floor system is square and level after installing the joist hangers. After confirmed square - add any necessary blocking. Recommend to solid block at each corner. Corner blocking ensures end joist & future casters are well secured. Install the casters at each corner. IMPORTANT: DO NOT REMOVE LEVELING BLOCKS AT THIS TIME.
Floor Decking (Hallway AND Room)	<ul style="list-style-type: none"> Locate center of the floor system adjacent to the beams on both sides of the building. Snap a chalk line adjacent to the beams across all floor joists. Begin install by using the chalk line as a straight edge for the first board. Installing from center-out allows for installation in both directions with even rips on ends. 1-5/8" decking screws are recommended. Installing the last boards will require the boards to be ripped flush with the floor system.
Side / Long Walls (Room)	<ul style="list-style-type: none"> Begin by snapping a 3.5" chalk line around the entire perimeter. Recommend to begin constructing the side walls first. These are the walls that rest on top of the beams in the floor system. The half walls require a double top plate which allows for easy install of sheathing. Stud layout should consider the wall to include a 3.5" post located center wall. Lay all three 4"x4" posts on a flat surface, each separated by a single top & bottom plate. Mark stud layout at 16" on center. Add studs next to the posts. This will allow for a more secure installation. Square each half wall by measuring corner to corner on the diagonal. Confirm your overall length is 12' 8". Install the window header / roof support / top wall plate (One 4"x4" at 12' 8"). Pre-drill & lag screw header from top down onto the top of the half wall posts.

<p>Window / Short Wall (Room)</p>	<ul style="list-style-type: none"> • Lay out the window in the center of the top and bottom plates. • Lay out studs 16" on center allowing space for king studs on either side of the window. • The half walls require a double top plate which allows for easy install of sheathing. • Square the wall by measuring corner to corner on the diagonal.
<p>Door / Short Wall (Room)</p>	<ul style="list-style-type: none"> • Lay out the door on both the top and bottom plates allowing for door king and jack studs. • Locate the door as noted on the drawings. • Lay out studs 16" on center. • Square the wall by measuring corner to corner on the diagonal.
<p>Roof Truss / Ceiling (Room)</p>	<ul style="list-style-type: none"> • Recommend creating a 4' by 8' working surface on a sawhorse to assemble the trusses. • Refer to the truss diagram in the drawings for details on the 3 different truss types. • Refer to gusset detail drawing for specifics on dimensions and cut angles of gusset plates. • Truss are installed 24" on center. • Three truss types: <ul style="list-style-type: none"> ○ Field Truss (gussets both sides) ○ Gable Truss W/ Window (gussets only on inside) ○ Gable Truss W/O Window (gussets only on inside)
<p>Finish Materials (Hallway AND Room)</p>	<ul style="list-style-type: none"> • Install all synthetic PVC prior to plexiglass. • Synthetic PVC should be installed with exterior grade cabinet head screws GRK 2" 5/8". • Apply 1/2"rips of synthetic PVC to the window jambs (All EXCEPT the top jamb) prior to building window shutters. • Pre-drill all fastener locations when installing the plexiglass. • Plexiglass should be installed with exterior grade framing screws GRK 2". • Screw spacing for plexiglass and synthetic PVC should be 12" around board and field.

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