

Quick Reference Guide

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Chapter 5 – Sheathing, Erecting Exterior Short Walls

Preparation	<ol style="list-style-type: none"> 1. Locate blocking between rim board and first/last, I-joist in the basement. Transfer location of blocking to deck or rim board. (Maximum 32" centers.) 2. Align bottom of assembled wall flush with the chalk line along entire length. Use a hammer and toenail through the <u>bottom face</u> of the bottom plate into the deck every 6'-8' with 8d nails.
Install OSB Wind Bracing and Sheathing	<ol style="list-style-type: none"> 3. Check House Plan to see if OSB wind bracing is required. OSB wind bracing sheets not located at the wall end should be centered on studs and flush with the bottom plate. Do not locate where the stove plenum will be installed. If possible, place where the electric service meter base will be located. 4. If a short wall is the front wall of the house, check with Construction Supervisor if entire wall should be sheathed with OSB. If yes, sheathe the rest of the wall with OSB, except above windows and doors. CAUTION: Do not put OSB sheathing or wind bracing on the ends of the short walls at this point. 5. Draw a line on the OSB marking all studs to ensure nails don't miss but do not nail at this point. Tack wind bracing and any OSB sheathing to bottom and upper plates with an 8d nail in each corner.
Attach House Wrap	<ol style="list-style-type: none"> 6. Measure the width of house wrap and subtract 14¾" from the width—e.g., 18" - 14¾" = 3¼". <ol style="list-style-type: none"> a. Measure up that amount from the bottom of the wall and snap a line the length of the wall. b. Staple the top of the wrap to that line at each stud, extending the wrap 12" past the end of the wall. For short walls do not staple wrap that will go over any end OSB. Leave this wrap loose, fold back over the installed sheathing and tape in place.
Install Foamboard Sheathing	<ol style="list-style-type: none"> 7. Install foamboard sheathing to short walls that are not the front wall of the house. <ol style="list-style-type: none"> a. Install between OSB, over house wrap and flush to bottom of the bottom plate. Position so grooved side butts against any OSB. If not possible, cut off the "tongue" of the foamboard before placing it next to the OSB. Nail with 2" button nails following the Foamboard Nailing Pattern (See figure 5-2). Nails should be shared between two abutting pieces of foamboard. Nail only into King studs and into the header (2¼" away from opening) around windows and doors. Do not nail into window sills. b. Install ½" foamboard over OSB, flush on all sides. Nail with 1" button nails following the Foamboard Nailing Pattern (See figure 5-2). Nails should be shared between two abutting pieces of foamboard. Tape all seams. c. Do not install foamboard over OSB on any short wall that is the front wall of the house. This will be done after wall is erected. CAUTION: Install ½" foamboard over wind bracing OSB <u>only</u> if inspection is not required (see Construction Supervisor). 8. Fold bottom of house wrap onto sheathing and tape with air sealing tape every 3'-5'.
Erecting the Walls	<ol style="list-style-type: none"> 9. Following the same procedure as long walls, apply two generous beads of caulk on the deck, raise the wall, and lean against the long wall braces. 10. Align with the chalk line then put two 3¼" collated nails into each I-joist <u>block</u> 11. Remove brace on long wall to let walls come together, check that top plates are flush with each other at each corner. 12. Flush adjoining end studs and nail every 12" from the bottom plate to upper plate with 3¼" collated nails. Brace all corners with 12'-16' 2x4 bracing from bottom to upper plate on <u>INSIDE</u> of all walls. Keep top of brace less than 1" above upper plate and avoid crossing interior walls. 13. Install end-of-wall OSB on short walls, if required. Cover all OSB with ½" foamboard.

Quality Points

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- Bottom plate secured to deck along chalk line and lined up with 5 ½" marks on long walls
- House wrap installed over OSB and under foam board, taped up over sheathing
- Foam board installed and properly nailed and taped
- Thick, double line of caulk laid on deck under bottom plate
- Wall is secured to long walls at ends/corner is flush
- All corners are correctly braced on the inside.
- All required OSB is nailed in place and covered with foamboard.