

Quick Reference Guide

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Version 24.0

Chapter 2 - Sill Box Foamboard, Decking and Basement Preparation

Cut Foamboard	<ol style="list-style-type: none">1. Rip 1" foamboard sheets into 9-7/16" wide strips2. Cut strips into two standard lengths: 18 1/2" for between I-joists and 31 1/2" for between end blocking3. Use Notch Cutting Jig to notch corners of each foamboard piece
Install Foamboard	<ol style="list-style-type: none">4. Install foamboard into each sill box area5. Apply air sealing caulk all around the inside where the foamboard meets the sill plate and the I-joists6. Caulk or tape any seams in foamboard
Install Sump Pump Hose	<ol style="list-style-type: none">7. Determine best location for hose to exit the sill box8. Drill 2 1/2" hole through rim board9. Reposition hose so it exits through that hole
Plan & Install Floor Decking	<ol style="list-style-type: none">10. Begin decking at zero corner on side of house that does NOT contain the stairway opening11. Determine best layout pattern to minimize waste12. Snap chalk lines at 1" less than 4' intervals across the width of the foundation13. Install the first course of decking<ol style="list-style-type: none">a. Apply continuous bead of adhesive to the tops of rim boards, I-joists and end blockingb. Drop a sheet of decking on the I-joists, with its grooved edge aligned with the first 48" chalk linec. Square the sheet with the underlying I-joists and nail corners with 8d nailsd. Adjust the I-joists to 19.2" centers and nail with 8d nailse. Repeat with all subsequent sheets of decking for the first course (leaving a 1/8" gap between ends of sheets)14. Install remaining courses of decking<ol style="list-style-type: none">a. Apply continuous bead of adhesive to the tops of rim boards, I-joists and end blockingb. Drop a sheet of decking on the I-joists, with its tongue edge facing the grooved edge of the previous coursec. Use a sledge hammer and 6 – 8' piece of scrap 2x4 to move the new piece tightly to the previously installed course of deckingd. Square the sheet with the underlying I-joists and nail corners with 8d nails.e. Adjust the I-joists to 19.2" centers and nail with 8d nailsf. Be sure to leave a 1/8" gap between ends of sheets15. Complete nailing of all sheets of decking with seven 8d nails on the edges and five 8d nails in the field16. Cut away decking over stairway opening, leaving a 1 1/4" overhang where the top of the stairs will be attached.17. Cut two 1" wide by 1 1/4" deep notches in the decking overhang, one on each side of the stairwell opening.18. Securely cover stairwell opening
Basement Preparation	<ol style="list-style-type: none">19. Cut floor drain flush with surface of concrete floor20. Remove all debris from basement floor, window frames and egress wells21. Sweep floor clean next to foundation walls22. Apply radon caulk all around the perimeter of the basement floor where it meets the foundation wall23. Cut drain tile 2"-3" below the bottom of the window sill and cover it with a piece of foamboard and at least 2" of stone

Quality Points

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- ~~Each sill box is filled with a 1" layer of foamboard which is caulked around its entire perimeter~~
- All seams between decking sheets are no more than 1/8" wide
- Each decking sheet is properly nailed:
 - seven 8d nails on the edges and five 8d nails in the field
 - nails are sunk to the proper depth
 - any nails that missed the framing below the deck have been removed and re-nailed
- Each decking sheet has been marked with a red "OK"
- End blocking marks have been transferred to the top of the decking
- Notches in the decking overhang have been cut on each side of the stairwell opening
- The stairwell opening is securely covered by the end of the work day
- Sump pump hose is repositioned to exit through rim board
- All debris has been removed from basement floor, the egress wells, and around the basement window frames
- Basement floor perimeter is caulked with radon caulk
- Basement floor drain is cut flush with surface of concrete floor
- Drain tile is trimmed to proper height and covered with foamboard and at least 2" of stone