

File # _____
Builder _____
Address _____

Job Name _____
Directions _____



CODE INSPECTOR'S CHECKLIST

Rev: 01/2022

For use by building code inspectors to simplify and expedite the inspection process with Superior Walls foundations. All page references made below use the Superior Walls of America Builder Guideline Booklet (Revised JAN 2022) and the 2021 International Residential Code. Additional copies of this checklist are available for download at www.superiorwalls.com.

1. Verify soil characteristics (Pg. 5)
 - Minimum 1,500 PSF capacity (Table R401.4.1)
2. Verify crushed stone footing (Pg. 6, 8, & 9)
 - Stone depth (Table #2 on Pg.6)
 - Clean crushed stone (1/2" Max)
 - Filter membrane by others prior to backfill (R405.1.1)
3. Verify excavation (Pg. 7)
 - Trenches / excavation dug below frost line
4. Verify drain system / sump pump (Pg. 6, 7 & 8)
 - Drainage pipe installed (Figure 2 on Pg. 6 & Foundation Drainage on Pg. 8)
 - Backwater Valve as required for daylight drain (Pg. 8)
 - Accumulation tank for sump if not draining to daylight
5. Verify concrete floor (Pg. 18 & 19)
 - 4" base provided (R506.2.2)
 - 3-1/2" thick minimum floor thickness (R506.1)
 - Vapor retarder provided under floor as required (R506.2.3)
 - 2" minimum concrete contact between base of wall and concrete floor, for typical floor pour
 - Raised floor pour options (Pg. 19)
 - Slab connectors (if present) bent into concrete floor pour
6. Verify crawl space construction if present (Pg. 20 & 21) and the presence of one of the following:
 - 2" minimum poured concrete floor thickness, or
 - 12" minimum inside fill, or
7. Verify sill plate framing connection (Pg. 24)
 - Bolted using minimum 1/2" bolts/studs with washers in top bond beam
 - Bolted using 1/2" bolts/studs above window / door headers
 - Attached per (Table #3 on page 27)
 - Minimum of 2 bolts per plate section
 - Sill plate splices must be at least 4'-0" away from any panel joint
 - Bolted not more than 12", nor less than 7 bolt diameters, from the end of each plate section (R403.1.6)
 - Bolted in center 1/3 of Plate
8. Verify perpendicular floor joist connections (Pg. 24)
 - Each joist nailed to sill plate with two 16d common nails (3-1/2" x 0.162") (or according to code) (Table R602.3(1))

9. Verify parallel floor joist connections (Pgs. 24-34)

- 2 x 6 end-wall braces located within 12" from the interior of each corner (Pgs. 24-34)
- 2 x 6 end-wall braces nailed to sill plate with five 10d nails
- 1 solid block used if backfill is 0' to 7'-6" (nailed in-line with the 2 x 6 end-wall brace)
- 2 solid blocks used if backfill is between 7'-6" and 9'-6" for joists less than 10" in height
- 3 solid blocks used if backfill is between 7'-6" and 9'-6" for joists that are greater than or equal to 10" in height
(See fastening details on Pg. 27 to 34)
- Blocking requires six 10d nails through floor (conventional construction) or construction adhesive on top of blocking (modular construction)

10. Verify modular connection (Pg. 34)

- Framing strap lies between band joist and sill plate (Figure 29 on Pg. 34)
- Framing strap is fastened with 1-1/2" nails provided with straps
- Verify 1 nail per hole
- Verify strap spacing (Table #4 on Pg. 34)

11. Verify shear walls (Pg. 36)

- If present, verify that shear wall is attached to floor, outside wall and joist(s) above
- Shear wall must be either a Superior Walls panel or other approved construction

12. Verify stairwell header (Pg. 37). Is the long side of the stairway opening within 8' of the parallel Superior Wall? If "YES":

- Support beam (2 x 10 sill plate and two 2 x 8's) 2'-0" past each end of the opening without splices
- 1/2" bolts/studs with washers in every precast hole through the bond beam or threaded insert location
- Openings larger than 9'-6" must be reviewed by an engineer or be an alternative Superior Walls Stairwell Header Reinforcement design

13. Verify backfilling (Pg. 40)

- Before backfilling, basement floor must be poured and first floor framing / decking properly attached (R404.1.7)
- Height of finished soil grade must be at least 6" below top of Superior Walls Panel (R404.1.6)

14. Verify inside fill conditions (Pg. 22)

- Must not exceed 36" more inside fill than outside fill, unless the panel was specially manufactured for this application.

15. Verify final grade

- Slope the final soil grade a minimum of 6" fall within the first 10'-0" to divert ground water away from foundation (R401.3)
- Height above finished soil grade must be at least 6" (R404.1.6)