

For use by builders and general contractors to ensure proper foundation design, construction, installation, and performance. 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. Provide your local Superior Walls representative with:

- Floor plans and elevations
- Design load (total pounds) per linear foot on the foundation
- Beam and column locations, sizes and point loads
- Additional point loads and locations
- Window and door locations, rough opening sizes, and opening style
- Egress (Emergency Escape and Rescue Openings) requirements
- Exterior finishes requiring support ledges
- Interior stairway locations, opening sizes (affects panel lengths)
- Inside fill conditions
- Exterior basement entry system specifications
- Chimney details

**For additional technical information,
please see the Technical Resources
section of our website:**

<https://www.superiorwalls.com/resources/documents-center/>

2. Prepare Site:

- Building Permits and Inspections
- Soils Verification
- Excavation
- Placement of Crushed Stone Footing
- Placement of Drain Pipe and Sump Pit or Daylight Drain
- Installation of Filter Membrane
- Cold Weather Practice
- Locate Building Corner Pins and Establish Grade
- Site Accessibility: Truck and Crane Access, Trailer Unload Area, Crane Pad(s)
- Installation of Sill Plate and Framing Attachments
- Backfill After Concrete Floor has been Poured and Framing / Decking Connection is complete

3. Provide checklist from Builder Guideline Booklet for:

- Excavation
- Concrete floor
- Framing
- Inspection

4. Provide approved drawings (Date: _____ Revision: _____) for:

- Excavation
- Concrete
- Framing

5. Soil characteristics

- Determine type (Soil Class) _____ and allowable Load-Bearing Pressure _____ (Table 1 on Pg. 5)
- Determine combined footing load per linear foot _____ (Uniform Wall Load) (Table 2 on Pg. 6)

6. Crushed stone footing (Pg. 6)

- Determine stone depth (Table #2 on Pg. 6) _____
- Communicate stone depth to excavator

7. Excavation (Pg. 7)

- Provide elevations
- Set corner pins
- Communicate to excavator: site accessibility needs (trucks and crane)

8. Drain system and daylight drain or sump (Pg. 6, 7 & 8)

- Communicate to excavator: placement of perforated drain pipe in reference to corner pin location (Figure 2 on Pg. 6, Foundation Drainage on Pg. 8)
- Communicate to excavator: location of daylight drain and backwater valve (Pg. 8) or location of sump accumulation tank(s)
- Install filter membrane (Pg. 8)

9. Shear walls (Pg. 36)

- Verify need for shear walls
- If required, verify that shear walls are attached to floor, outside wall and joist(s) above
- Choose shear wall construction: ___ Superior Walls panel or ___ Other construction
- If Other construction, communicate construction requirements

10. Concrete floor (Pg. 18)

NOTE: To comply with building code and Superior Walls of America, Ltd. requirements, the framing / decking connection at the top of the Superior Walls panel and the floor slab at the bottom of the Superior Walls panel MUST be completed prior to backfilling.

- Communicate need to embed Superior Walls Slab Connector (if included) into concrete floor pour
- Communicate slab specifications per Code and BGB requirements

11. Crawl space (Pg. 20 & 21): **Choose** one of the following:

- 2" minimum poured concrete floor
- 12" minimum inside fill

12. Framing / Modular connection (Pg. 24 to 35)

NOTE: To comply with building code and Superior Walls of America, Ltd. requirements, the framing / decking connection at the top of the Superior Walls panel and the floor slab at the bottom of the Superior Walls panel MUST be completed prior to backfilling.

- Determine fastening schedule (Table #3 on Pg 27) (_____" OC)
- Communicate fastening schedule to framers
- Bolted not more than 12" from the ends of each sill plate section (R403.1.6)
- Framing strap (if used) lies between band joist and sill plate (Figure #29 on Pg. 34), is fastened with 1-1/2" nails provided, 1 nail per hole, Verify strap spacing (Table #4 on Pg. 34)
- Bolted in center 1/3 of Plate

13. Electrical / Plumbing

- Communicate proper method to drill / cut holes through Superior Walls panels.

Exterior Holes in Superior Wall Panels – Any exterior holes that may be required for such things as sanitary soil lines, electrical service entrance cables, or chimney flues, should be made between the studs following these simple procedures:

1. Remove insulation from the interior of the wall panel and drill a pilot hole at the hole location, from the interior to the exterior.
2. For small holes, use a core bit and hammer drill, always working from the exterior of the wall.
3. For larger holes, first trace the circumference of the desired hole. Then drill a series of holes around the perimeter of the tracing from the exterior of the wall.
4. Use a chisel, always working from the outside in, to remove the concrete.
5. After the pipe is installed, apply a one-part polyurethane sealant around the pipe on the interior side.
6. Finish by sealing the outside (pipe to concrete) with a one-part polyurethane sealant.