

C. STEP-BY-STEP INSTALLATION PROCEDURES

The following section is presented in the order one would expect a typical PolySteel project to be constructed. We start with the footing for a typical above-grade wall and progress through the installation process reaching all the way to the roof line, identifying the important practices to be considered at each step. We then cover specific considerations for structural foundation applications. While some procedures may apply to different phases of your particular project, we have tried to identify and address specific topics and considerations that fall in this sequence, with cross-references where appropriate. Your local PolySteel Representative is your best resource for additional documentation and insight into local building practices and should be called upon to assist you in applying these procedures whenever you need help. The installation guidelines are addressed as follows:

- C.1. CODE COMPLIANCE
- C.2. CONSTRUCTION OVERVIEW
- C.3. THE "ARC" OF SUCCESS
- C.4. FOOTINGS
- C.5. FOUNDATION-TO-WALL CONNECTION
- C.6. STEEL REINFORCEMENT FOR WALLS
- C.7. FORM PLACEMENT
- C.8. CORNER BRACING
- C.9. DOOR AND WINDOW OPENINGS
- C.10. BRACING AND SCAFFOLDING
- C.11. INTERSECTING WALLS
- C.12. END WALLS
- C.13. INTERMEDIATE FLOORS
- C.14. UTILITY PENETRATIONS
- C.15. LEVELING AND ALIGNING THE TOP
- C.16. VERTICAL REBAR PLACEMENT
- C.17. FINAL CHECKLIST
- C.18. CONCRETE MIX DESIGN
- C.19. CONCRETE PLACEMENT
- C.20. INSTALLATION OF UTILITIES
- C.21. INTERIOR AND EXTERIOR ATTACHMENTS & FINISHES
- C.22. STEM WALLS FOR CONCRETE SLABS
- C.23. STEM WALLS FOR CRAWL SPACES
- C.24. BASEMENT WALLS

TAKE THE TIME TO DO IT RIGHT

It sometimes seems that many aspects of construction have remained the same for decades, if not centuries. However, the standards and practices that apply to our industry have, in fact, steadily continued to improve as new products and building systems are introduced and proven in the field. In addition to various field and structural improvements, the recent and dramatic increase in society's awareness of the impact construction has on our safety, and the well-being of the environment, has further accelerated the acceptance of new technologies and building practices over the past few decades.

The successful implementation of change in the construction industry is critically dependent on success in the field. With repeated success, new technology and techniques are more readily accepted, codes change to reflect the improvement and, before you know it, what was once new and different becomes the standard in the industry. Accordingly, **American PolySteel believes strongly in the application of proper planning, due care, code compliance, and a conscientious approach to every aspect of building with our products.** We have a great respect for those who pioneer new technologies and open their mind to recognize when a new, and potentially superior, standard comes along. We also remain committed to continue improving our own practices and procedures to help ensure our place as a respected member of the construction industry. We respectfully request that you do your part by taking the time to do it right the first time, and getting the help you need to make your PolySteel project an example of the way all structures should be built—now and in the future.



“Since I added PolySteel to my business, I have:

- *Happier Customers*
- *Higher Profits*
- *Reduced Callbacks*
- *A Longer Building Season*
- *Smaller Crews and Fewer Trades to Schedule and Manage, and a*
- *Distinct Advantage in an Increasingly Competitive Market.*

PolySteel has proven to be the best building material I can use for the exterior walls of my residential and commercial projects.”