

C.3 THE “ARC” OF SUCCESS

Throughout the installation process, we advise you to keep three key elements of the PolySteel building system in mind as they relate to each and every procedure you execute. These three components conveniently create the acronym of an ARC, which provides you with a touchstone to help ensure your success.

Alignment.

As we progress, you will see the importance of alignment throughout the building process. We will cover how it applies with respect to:

- Aligning the structural cores of the posts and beams formed by the PS•3000
- The attachment studs and their markings on the surface of the form
- The importance of plumb walls and how to brace them properly
- Horizontal alignment – the importance of keeping things level
- Aligning the cuts made in the forms

Reinforcement.

Reinforcement applies to the steel used to reinforce the concrete as well as the reinforcement applied to the walls during installation. Areas of importance include:

- Reinforcing Steel – (rebar)
 - ✓ Size
 - ✓ Grade
 - ✓ Placement and spacing
- Lintels (Headers) — these concrete beams over window and door openings are a critical area on all structures
- Openings in the walls for windows and doors
- Cuts made to forms that need to be reinforced

Concrete

The final measure of success in your project is how the walls receive concrete and allow it to cure sufficiently to provide all of the structural benefits of the PolySteel wall system. Many aspects of the installation process will have a direct effect on the success of the concrete's performance in addition to its:

- Strength
- Slump
- Placement
- Consolidation

Every step you take in the completion of your PolySteel project will affect one of these three components. Keep them in mind and they will guide you to a successful result.