

The perimeter chassis is gaining acceptance and popularity. With a strong C channel perimeter and steel joists, it is very strong and simple. The decking is usually 1 1/8" tongue and groove plywood ram set to the steel. This is a very good solution to the offering the following:

- Eliminates bowed floor joists.
- Eliminates floor crown caused by roof loads bearing down the side common in transfers wood joist systems.
- Eliminates lag bolt squeaks where conventional chassis are bolted to the floor joists.
- Eliminates most miss nailed decking.
- Eliminates most swelled floor decking and resulting bowed joists where moisture is excessive.
- Eliminates the complication of correctly locating chassis support footings for concrete foundations and simplifies foundations to generally perimeter and matting line walls.
- Eliminates complicated perimeter support piers and ridge supports at the matting line, instead is supported by a full concrete or framed wall at the matting line and perimeter.

Here is a perimeter chassis under construction.



The foundation system for the perimeter chassis system is greatly simplified, having a perimeter and marriage walls and an occasional moment wall. The home hold downs often consist of steel plates with anchor bolts welded to them wet set into the foundation wall. Once the home is placed, the plates are welded to the perimeter chassis. Expect to have steel shim plates of varying thickness to shim the gaps where the home and foundation do not make contact. At a matting line, one side is welded down and the other side bolted to the welded side. If a framed wall is used, the framing will usually consist of 6" framing with 4"x6" posts tied to the foundation with hold down and anchor bolts. At the top of the post, a steel saddle bracket is bolted to the framing and the home welded to it. The wall is fully sheered with structural panel and finished.

The perimeter chassis unit has a simplified foundation system with no interior or marriage piers or footings. In lieu of marriage piers, a marriage foundation wall is formed and poured so the units have full perimeter support.



The steel perimeter chassis is welded to the perimeter foundation anchor plate.

