



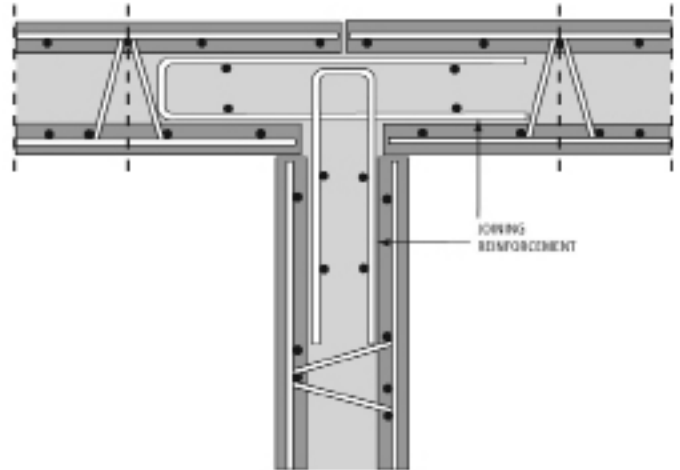
CORNISH CONCRETE PRODUCTS LTD

PRECAST DOUBLE WALLS

The double wall unit consists of two skins of thin concrete connected using a steel lattice girder. The cavity between the skins is then filled with concrete on site after the panel has been erected. Any tie steel joining the wall to the foundation or other adjacent double walls or half floor units is placed in the cavity prior to concreting and the resulting structure is a single monolithic element when finished.

Double-wall precast concrete sandwich panels can be used on most every type of building including but not limited to: Flats, Townhouses, Apartments, Hotels, Prisons, Student accommodation, Schools and Single Family homes.

Depending upon building function and layout, the double-wall panels can be easily designed to handle both the structural requirements for strength and safety, as well as the aesthetic and sound attenuation qualities the owner desires. Speed of construction, durability of finished structure and energy efficiency are all hallmarks of a building that utilizes the double-wall system.



Advantages:

- Considerable saving on main contractor programme against traditional construction methods
- Factory controlled conditions ensure highest accuracy and consistent manufacturing quality
- Greatly reduced labour on site
- Excellent acoustic characteristics
- Excellent fire resistance, Class 0, BS8110:Part 2
- Immediate cosmetic finish, décor can be applied to both faces as soon as the building is watertight
- Easier to comply with health and safety regulations due to the above savings
- Saving on contract preliminary items as complete external scaffolding can be done away with in some instances or started very late into the program once the precast shell is nearing completion
- Environmentally friendly as there is a minimum of waste on site compared to traditional building methods

Overall:

Wall thicknesses can vary from a minimum of 200mm up to 400mm. All of the design work required is based on the traditional limit state design for ordinary reinforced concrete, (BS8110). Panels can be designed for either load bearing or non-load bearing situations.

Once designed, the building is drawn completely in 3D within the CAD system of the plant and fully detailed with respect to reinforcement, cast-in items and openings for windows, doors and services. Any wall geometry can be accommodated within the limits of our pallets.

Electrical services can also be included in the pre-engineering of the panels at the design stage. Electrical back boxes and conduits can be cast in, if required.