

# WILLIAMS



## Coffer Slab System

The Williams Coffer Slab System has been designed for use in both commercial and residential applications and can be engineered to suit any project where a concrete slab is required.

### *The System described*

The Williams Coffer Slab System consists of removable plastic coffer blocks suspended between a series of parallel ribs spanned across the area where a concrete slab is required. Depending on the application, the ribs will be either precast concrete lattice ribs or wooden purlins. When erected, the coffer blocks and ribs form a shutter on which the concrete slab can be cast.

Where wooden purlins are used as the ribs, tensile strength is provided to the concrete slab by means of steel reinforcing positioned in the beams formed between the coffer blocks. The primary reinforcing is placed above and across



the wooden purlins. The secondary reinforcing is placed above and transverse to the primary reinforcing.

Where precast concrete lattice ribs are used, the primary reinforcing is cast into the ribs with the steel lattice. The secondary reinforcing is fixed above and transverse to the ribs.

Steel mesh is placed above the coffer blocks to control cracking and to add additional strength. The deck is generally supported by load bearing walls and from below by bearer beams and adjustable steel props. See the technical diagrams for more detail.

Whether to use wooden purlins or precast concrete ribs depends on the length of the span and the application. However, wooden purlins would generally be used for residential and concrete ribs for commercial applications. The span of a slab using wooden purlins will seldom exceed 7 meters, whereas a slab using concrete ribs could span as much as 10 metres.

The superior lightweight, cost effective, insitu concrete slab.