

# WILLIAMS



## Coffer Slab System

The Williams Coffer Slab is a superior insitu concrete slab solution. The unique design of this system offers substantial benefits to the user; examples of which are:

- Lightweight construction
- Ease of installation
- Cost effectiveness
- Superior strength

### **Lightweight construction**

Despite the depth of the Williams Coffer slab being almost 40% greater than that of the conventional wet deck the amount of concrete used is considerably less as a result of the voids created by the coffer blocks.

As a consequence of the lighter slab and greater effective depth considerably less reinforcement is required. Deflections are also minimized. This weight advantage can be used to achieve longer spans and a lighter support structure. The system requires less support work than any other in situ slab.



### **Ease of installation**

The coffer blocks used in the Williams Coffer Slab are manufactured from plastic, making them light and easy to handle. The assembly of the coffer blocks is done on the ground before being lifted into position between the supporting ribs. The result is less labour and quick and easy installation.

### **Cost effectiveness**

The Williams Coffer Slab using less materials, less labour, requiring less support work and being quick and easy to install, results in substantial cost savings making the Williams Coffer Slab System an extremely cost effective concrete slab.

### **Superior strength**

The Williams Coffer Slab has superior strength compared to alternative concrete slabs due to the geometric shape of the coffer void, the depth of the slab and the 2 way spanning reinforcing steel bars and steel mesh. The strength of this system means that, depending on loading, spans of up to 7 meters can be achieved using wooden purlins and 10 meters using precast concrete lattice ribs without excessive deflections.