

LIFTING SHACKLES



Background

A recent fatal accident within Vinci Construction, and several falling objects near misses, has highlighted the importance of using the correct type of lifting shackle during lifting operations.

Types of Lifting Shackles

Generally, there are three types of lifting shackles in use; a Dee-Shackle with screw pin, a Bow-Shackle with screw pin and a Bow-Shackle with a secondary securing system that utilizes a pin, nut and split pin, see Figs 1, 2 and 3 respectively.



Fig 1



Fig 2



Fig 3

Use of Lifting Shackles

Screw Pin Shackle

These shackles **must only** be used for 'Lift and Place' operations.

The Slinger must ensure the screw pin is fully tightened before lifting the load.

Bolt with Secondary Securing System Shackle

These shackles are mandatory where the shackle may be subject to:

- strong vibration or
- where the load may slide on the shackle pin causing the pin to rotate or
- where it is intended to be permanently installed or fixed to a load, for example on hoppers, rig components or the sleeves protecting hydraulic hoses.

Where practicable, a tag is to be fitted to this type of shackle stating '**DO NOT REMOVE**', see Fig 5.



Fig 5