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## HEALTH AND SAFETY –PRODUCT DATA/COSHH PRESTRESSED CONCRETE “T” BEAMS & HOLLOWCORE SLAB

### COMPOSITION

#### 1. Aggregates

Sand gravel and limestone

Produced from naturally occurring deposits consisting of combinations of various minerals including quartz.

#### 2. Cement

A caustic alkaline product inert in its hardened form.

Admixtures may be added to improve the properties of fresh and hardened concrete. These mixtures are also inert in the concretes hardened state.

#### 3. Steel Wire

High tensile un-plated steel wire of various diameters and lay-out are used as reinforcing.

#### 4. Admixture

Plasticiser and enhanced early strength.

### MAIN HAZARD

Precast concrete flooring may have a surface dust containing quartz and inhalation in excessive quantities over extended periods can constitute a long term hazard. Air borne dust can also cause irritation to the eyes.

Flooring beams and slab that are cut using portable hand tools will give off dust containing cement and quartz and metallic sparks when cutting through the stressing wires. Inhalation of this dust in excessive quantities over an extended period of time can constitute a long term hazard.

#### OFF LOADING “T” BEAMS & SLAB

Product should be placed/stacked on firm, level ground capable of bearing the imposed load. Beams are delivered by crane off-load vehicles, unless otherwise agreed.

It is the responsibility of the Main Contractor to ensure that the site is manned to assist with the off-loading and correct stacking and placement of beams. Timber bearers left on site may be charged for.

### PRECAUTIONS

Inhalation of excessive quantities of dust should be avoided. An appropriate dust mask to HSE standards should be worn when undertaking on site cutting operations. Appropriate eye, ear and foot protection should also be worn.

### TRANSPORTATION

Precast concrete flooring is not subject to the hazardous substance conveyance regulations and vehicle labelling is not required.

### HANDLING & STORAGE

The flooring joists and slab must be stored and handled the right way up ie. With the main reinforcement at the bottom.

### DISPOSAL

Concrete is inert but should be disposed of in accordance with local requirements.

Details contained within TT Concrete Products Ltd literature are subject to change without notice in accordance with continued updating to systems and amendments to statutory regulations.

#### LIFTING “T” BEAMS & SLAB

Beams must be lifted in single layers by mechanical means i.e. forklift, telehandler, crane. Slab must be lifted in to place with the correct shackles for cast double headed lifting pins. Maximum 1200mm overhang at either end. Never “snatch” lift beams & slab. Always handle the right way up.  
150mm Beam Weight – 35 kg/m  
225mm Beam Weight – 57 kg/m  
150mm Slab Weight – 223 kg/m<sup>2</sup>  
200mm Slab Weight – 300 kg/m<sup>2</sup>