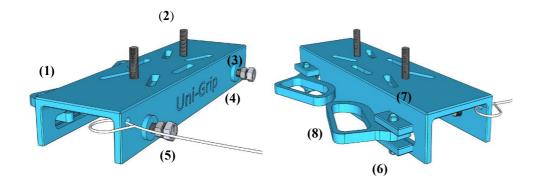
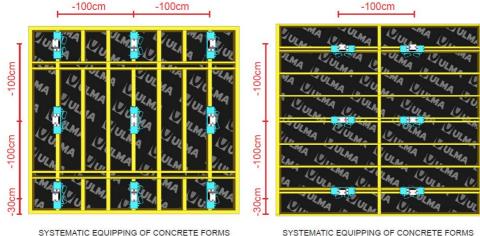
Uni-Grip Bracket



- Main steel C channel Uni-Grip body
- Slots to suit OT36 high frequency vibrator
- High tensile threaded cup set screw
- Lock nut for set screw
- Safety tether cable
- Handle supports
- Hardened roll pins
- 8. High tensile ergo handles

Guidelines for use

- Working conditions to be safe & free from obstructions
- Understand concrete to be used
- Formwork should be clean, free from debris, treated with appropriate release agent & leak proof
- Placement of vibrators to be 1.0 1.2m apart in both horizontal & vertical positions
- Vibrators to be placed approx. 300mm -
- 400mm from edge of form
- Mount Uni-grip to fixing point to allow good transmission of vibrators amplitude
- Vibrators should only be attached directly to stiffening profiles (never directly to FW skin)
- Area to be poured will determine QTY of vibrators required (i.e. 3m x 3m wall = 9 units)



SYSTEMATIC EQUIPPING OF CONCRETE FORMS WITH BEAMS

Guidelines for use cont.



5.8kg



1000mm-1200mm, up to 400mm thickness



Max 6 Bar (87 Psi)



794 l/min



200 Hz @ 6 bar (87 Psi)



rpm 6000 - 12000

Principal

Inner weight turbine

External concrete surface vibrators

RUNNING TIME

- Compaction time 1-5 min per layer
- Start vibrators once concrete fill commenced
- Concrete layer height: max. 50cm
- Heavy reinforcing used additional minute vibration time
- Wooden formwork used add 1-2 min
- Vibrators must be moved up the form in line with pour process

ADVICE FOR FASTENING

- Tighten fastening system firmly
- Always fasten safety tether
- Check rotation is in upwards motion

EQUIPPING A CONCRETE FORM

- Equip concrete forms in horizontal rows
- Compaction only switch on row closest to concrete layer being poured
- Fully equipped with ext. vibrators or ext. vibrators can be relocated form bottom to top (in line with pour)
- 2 rows of vibrators recommended for 2^{nd} cast

VIBRATION

- Bubbling of the surface
- Pin holing
- Excessive water buildup inside form
- Cracking of formwork

Segregation

VIBRATION

- Poor flow of concrete = defects
- Honey combing
- Optical layering
- Inhomogeneous multi layer pour
- Poor concrete compaction
- Poor finish

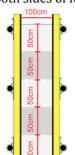
FACTORS TO CONSIDER WHEN **DETERMINING VIBRATION TIMES**

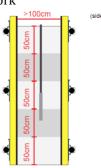
- Slump & MPA of concrete
- Type of formwork steel, ply (> time required due to absorption of vibration)
- Aggregate size (smaller aggregate = finer vibration required)
- Time between pours check setting times

WHY VIBRATE CONCRETE?

- To ensure consistency of concrete density
- To prevent optical layering
- To ensure even amalgamation of layers
- To remove excessive air from fresh concrete & improve surface finish
- If wall thickness > 400mm important to place vibrators on both sides of formwork

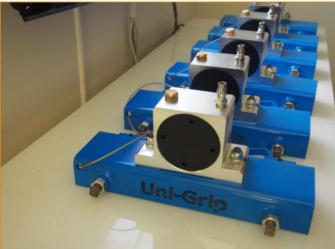






Uni-grip™ Bracket & Vibrator





- Light weight at 5.8kg
- No tools required
- All Uni-Grip Brackets are preset prior to site arrival
- 5mm m/s C Channel 350 x 100 x 50mm
- Safety Tether
- Universal bolt pattern to suit Oli OT36
- Hardened steel handles quick & easy action
- Simple lock and release action in seconds
- Placement with one hand
- Lock into position with the other hand
- For Vibration placement please refer to your job drawings