



SCAFFOLDING HIRE & SALES

## Forefront Hire & Sales Ltd

### NEW LIGHTWEIGHT TOE-BOARD CLIP

This new Toe-board clip allows toe-boards to be secured against adjacent standards without the need for any tightening bolts. No more will scaffolders require to use their spanners outside the handrail to tighten a fitting which is a huge H & S plus.



The spring clip to the above wraps around and firmly grips the scaffold tube. When slipped down the standard the two cantilevered arms to the right hold one toe-board firmly in place against the standard with the space between the two arms holding stop end toe-boards in place therefore eliminating the need for dead men, all the tube and fittings associated with this is an obvious saving and most importantly the timesaving is incredible.

**While achieving a similarly firm attachment of toe-board to adjacent standards as conventional steel clamps this new product has important additional features.**

- Formed from a strong structural grade advanced composite it will not corrode.
- The toe-board clip is manually attached to the standard by a spring-clip action.
- Once attached it can be slid down the standard allowing the toe-board to be lock-in place.
- The gap between the 2 locking cantilevered arms allow stop end toe-boards to be inserted.
- Can be supplied in any colour to suit your preference or corporate image.
- The ribbed box construction makes it lightweight at just over 50gm.



For more information call 0141 433 7915 Office & 07397 089 161 Mobile.  
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# NEW LIGHTWEIGHT TOE BOARD CLIP

## Design Requirements of Toe Board Clip:

The new toe board clips have been designed to meet the following requirements:

- Allow toe boards to be secured against adjacent standards without the need for tightening bolts.
- Enable the toe boards to be attached to the adjacent standards with a reasonable manual force.
- Enable the toe boards to be detached from the adjacent standards with a reasonable manual force.
- Be made from a material that does not corrode.
- Once attached to the tube the toe boards should remain in position requiring a small force to manually slide them into position over the toe board.
- When positioned over an edge toe board the locking arms should protrude far enough to allow a second end toe board to be secured between the locking arms.
- when positioned over an edge toe board the locking arms should not protrude so far as to become a H&S hazard.
- be constructed as a ribbed box to keep weight low
  - around 50gms

## Compliance with BS EN 12810/12811 and NASC TG 20:

There is currently no specified regulatory requirement for the strength of toe board clamps. BS EN 12811-1:2003 comes nearest by specifying a capacity requirement for the toe boards at clause 6.2.5.2 which states.

**"For toe boards, the horizontal point load is 0.150kN."**

However, this relates to the strength of the toe board itself to an outwardly directed force from operations on the platform. These outwardly directed forces on the boards would be resisted by the toe board bearing against the standards against which they are attached so that toe board clips are more than adequate. NASC TG 20 has a similar requirement to BS EN 12811-1.



## Capacity to Wind Loading:

It is reasonable that toe board clamps should be capable of maintaining the toe boards in the vertical configuration under wind loading. Calculations show that provided toe boards are attached at each standard and that each individual board is restrained by at least 2 toe board clips, it is necessary for the toe board clip to be able to resist an inwardly directed wind force of between 0.06 and 0.08kN (6 and 8kgf). Tests have demonstrated that the toe board clips have a pull-off capacity of 0.075kN (7.5kgf).



Edge toe board held in place with a toe board clip



Lightweight construction of toe board clip

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