

# LODEN ANCHOR FIXINGS



Manufactured by Tackburn Limited, the Loden Anchor Fixing is a unique hammer home fixing for use in aerated concrete. The Loden is an all steel fixing and is supplied in zinc plated mild steel or stainless steel. The fixing comprises of two parts, a tubular outer body and an inner pin. The Standard Head Loden Anchor is manufactured in the following lengths 60, 75, 90, 115 and 150mm. The range also includes a Loop Head Type which is referred to as an LB60.

General rule for calculating the length required is 50mm penetration into the blockwork plus the thickness of the item being fixed.

To fix a 25mm thick batten  $50\text{mm} + 25\text{mm} = \text{HB75 Loden}$

## HOW TO INSTALL LODEN ANCHOR FIXINGS

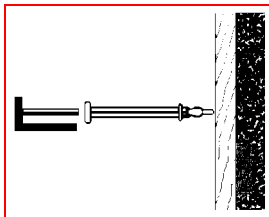


Figure 1

Insert pin of the gauge into the head of the Anchor. Holding the gauge and Anchor between fingers and thumb, place in position required.

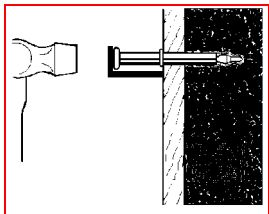


Figure 2

Hammer the head of the gauge until the tail of the gauge comes into contact with the object to be fixed.

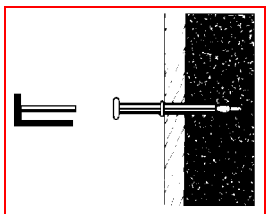


Figure 3

Remove gauge.

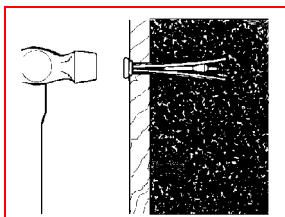


Figure 4

Hammer the Anchor home.

### HOW TO CHECK SETTING

Loden Anchor Fixings can be inspected after installation under difficult site conditions.

E.g. if the blocks are wet, by checking with a matchstick or nail that the inner is no more than 12mm from the surface. If this measurement is greater adjust by removing the setting tool before the tail reaches the surface of the fixture by the appropriate amount.

Loden Anchor Fixings will retain their Maximum Load after considerable movement inside the Building Material

## THE RANGE

### STANDARD HEAD

| Anchor Reference | Diameter "D"  | Length "L"     | Max fixing Thickness | Quantity |      |
|------------------|---------------|----------------|----------------------|----------|------|
|                  |               |                |                      | Pack     | Box  |
| HA 50            | 5.0mm (3/16") | 50mm (2")      | 12.5 mm (1/2")       | 100      | 1500 |
| HA 75            | 5.0mm (3/16") | 75mm (3")      | 37.5 mm (1 1/2")     | 100      | 1500 |
| HB 60            | 6.5mm (1/4")  | 60mm (2 1/4")  | 12.5 mm (1/2")       | 50       | 800  |
| HB 75            | 6.5mm (1/4")  | 75mm (3")      | 37.5mm (1 1/2")      | 50       | 700  |
| HB 90            | 6.5mm (1/4")  | 90mm (3 1/2")  | 50.0mm (2")          | 50       | 600  |
| HB115            | 6.5mm (1/4")  | 115mm (4 1/2") | 75.5mm (3")          | 50       | 500  |
| HB150            | 6.5mm (1/4")  | 150mm (6")     | 112.5mm(4 1/2")      | 50       | 500  |

### LOOPED HEAD

|       |              |               |  |    |     |
|-------|--------------|---------------|--|----|-----|
| LB 60 | 6.5mm (1/4") | 63mm (2 1/2") | Loop to take 10g (1/8")<br>Dia of Wire | 50 | 500 |
|-------|--------------|---------------|--|----|-----|

### DE-LUXE SETTING TOOLS

HA, HB, LB,

1



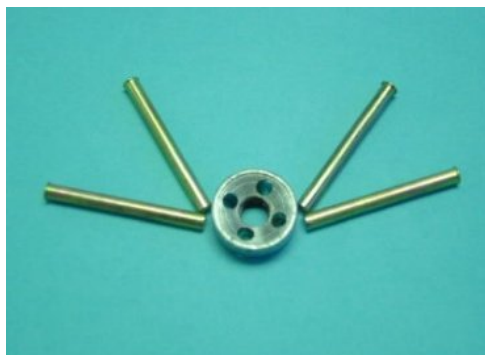
De-Luxe setting tools are available for the HA, HB and LB ranges.

## HEAVY DUTY FIXINGS

### Anchor Ref

HD 75

1



The Heavy Duty Loden Anchor consists of a steel threaded boss and four hardened steel pins. The boss can be surface mounted or recessed into the blockwork. The four pins anchor the boss into the blockwork.

Boss can be tapped M6 to M12

Bosses tapped M12 are stock items.

## PULL - OUT LOADS

For the complete Loden Anchor Fixing Range

Low density building blocks are often exposed to very wet conditions on site prior to use and at the time of fixing may appear dry superficially, whilst the core of the block is still wet. In these circumstances it is recommended that during the initial hammering of the Anchor a gap is left between the tail on the setting gauge and the surface of the fixture to ensure expansion of the Anchor. This can be confirmed by checking with a nail or matchstick that the inner is no more than 12 mm below the surface. For saturated blocks, the above ultimate loads would be reduced initially until dry. Safe loads for critical applications would be approximately 25% of the above. For non-critical uses, 35% would be satisfactory. The above information is offered as a guide only. Our Technical Service Department will be pleased to offer specific advice about fixing problems into low density materials.

Composition, density compressive, strength and moisture content of the block and the depth of anchor penetration are factors determining the maximum pull-out loads of all Loden Anchor fixings. On tests in dry blocks the following ultimate pull out loads have been obtained and may be used as a guide:-

| All Loden Anchors                                   |                | Ultimate Pull-Out Loads |       |                |        |
|---|----------------|-------------------------|-------|----------------|--------|
|   |                | 3.5<br>Minimum          | 2.8   | 3.5<br>Maximum | 2.8    |
| Compressive strength of blocks (N/mm <sup>2</sup> ) | Depth in Block |                         |       |                |        |
| 5.00 mm (31/16")                                    | 38mm (1 1/2")  | 90 kg                   |       | 130 kg         |        |
| 5.00 mm (31/16")                                    | 50mm (2")      | 110 kg                  | 57 kg | 155 kg         | 72 kg  |
| 6.5 mm (1/4")                                       | 38mm (1 1/2")  | 130 kg                  |       | 205 kg         |        |
| 6.5 mm (1/4")                                       | 50mm (2")      | 170 kg                  | 97 kg | 270 kg         | 125 kg |

### Heavy Duty

|   | Kgs | N    | Kgs | N    |
|---|-----|------|-----|------|
| Anchors in 3.5 N/mm <sup>2</sup> Compressive strength |     |      |     |      |
| Eg Durox, Celcon & Thermalite                         | 500 | 4895 | 750 | 7340 |
| Durox Supabloc 3.5 N/mm <sup>2</sup>                  | 372 | 3649 | 477 | 4672 |
| Lightweight Aerated Concrete 2.8 Nmm <sup>2</sup>     | 250 | 2440 | 400 | 3916 |

Loden Anchors Fixings are Protected by Patents

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