



| HC6 Pins - Features | HC6 Pins - Benefits for user | SC6 Pins Comparison |
|--|--|---|
| Pin range from 15 to 32mm length | A premium pin in a range of lengths | 15 & 20mm pins only |
| Superior quality hard pin >56HRc | Can be used in steel & concrete | Hardness between 53 to 56 HRc for use in concrete |
| One pin for many applications | Can be used in pre-stressed and pre-fabricated concrete up to C60/70 and in steel & hard steel | Recommended for steel (fuk=410-550N/mm ²) and concrete up to C40/50 |
| Mechanical zinc plating (except HC6 15mm) giving the pins a grey colour without affecting the heat treatment | Special plating gives a better hardness with a good ductility (good behaviour to flexion) | Electrogalvanised coating (yellow) Slightly softer than HC6 pin |
| Double thickness of zinc plating on HC6; 10µm | Gives improved corrosion resistance | Zinc plating on SC6: 5µm Less resistance to corrosion compared to HC6 pin |



HC6 A Versatile Pin Range

The HC6 pin is made from harder steel than any other pin available on the market, providing the ideal solution for mechanical, electrical and drywall applications when fixing into steel and hard concrete.

HC6 pins are premium quality pins developed to perform in any material. The pins perform well in:

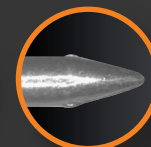
- Soft concretes (C20/25/30/37)
- Hard concretes (C40/50/60)
- Pre-stressed / prefabricated concretes (C60/70)
- Hollow concretes slab
- Aerated concretes
- Clay bricks
- Asphalt bitumen
- Steel (410 to 680 N/mm²)

HC6 High Performance

The HC6 pin is the hardest and least brittle pin available. It uses a very high core hardness (>56HRc) and a thin layer of soft steel on the periphery of the pin. This is called the 'decarburising area'.

These features ensure the HC6 range gives high performance in many substrates well

A special P₃ finishing process is applied (Pinch passing Progressive Point) 4 hours after manufacturing to improve its strength.



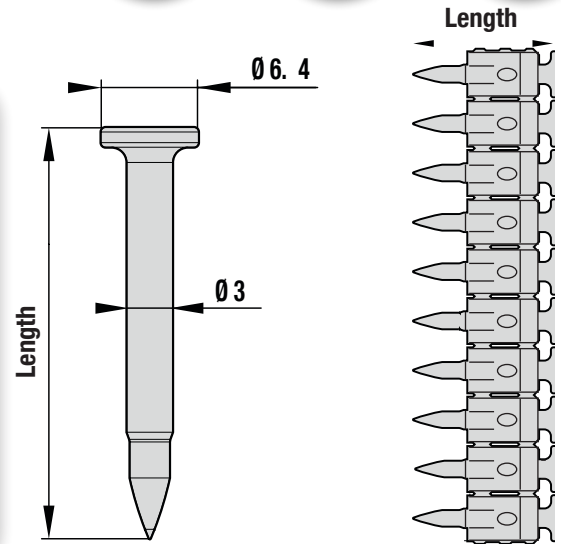
HC6 Nail Range

Competitors Nail



NAIL LENGTH SELECTION

| HC6 Range | Shank length | Orange strip | Flush head nail range |
|-----------|--------------|--------------|-----------------------|
| HC6-15 | 15 | 053206 | 011885 |
| HC6-17 | 17 | 011876 | 053893 |
| HC6-22 | 22 | 011891 | 053204 |
| HC6-27 | 27 | 011877 | 053205 |
| HC6-32 | 32 | 053207 | - |



RECOMMENDED LOAD

| HC6 Range | Embedment | Characteristic Resistance | | Recommended Load | |
|---|--------------------------|---------------------------|-------------------|---------------------------|--------------------|
| | | Tensile Force (Nrk) | Shear Force (Vrk) | Tensile Force Brec (Brec) | Shear Force (Vrec) |
| C20/25 - C60/70 | $H^{nom} = 10\text{mm}$ | 0.34kN | 0.75kN | 0.10kN | 0.25kN |
| | $H^{nom} = 15\text{mm}$ | 0.87kN | | 0.30kN | |
| | $H^{nom} = 18\text{mm}$ | 1.19kN | | 0.40kN | |
| | $H^{nom} = 20\text{mm}$ | 1.41kN | | 0.47kN | |
| $f_{uk} = 410\text{-}450 \text{ Nmm}^2$ | $H^{nom} = 6.5\text{mm}$ | 5.0kN | 3.6kN | 1.5kN | 1.2kN |
| $f_{uk} = 500\text{-}550 \text{ Nmm}^2$ | | | | | |

APPLICATION LIMIT



Concrete up to C20/25 - C50/60



Prestressed Prefabricated Concrete C60/70



Steel up to S355 and E335

HC6 PROPERTIES

Recommended for use in hard materials.

Salt spray resistance (following ISO 9227)

- Red rust 300 hours
- White rust 120 hours

Shank in carbon steel

TOOL

Designed for use with Pulsa 700E and Pulsa 700P

APPROVED BY

CSTB Technical approval 3/06 - 460

HC6 - 17, 22, 27 and 32mm

Mechanical zinc plating, min zinc coating

10µm

Hardness $\geq 56 \text{ HRc}$

HC6 - 15mm

Electrogalvanised, min zinc coating 5µm

Hardness: 53 to 56 HRc