

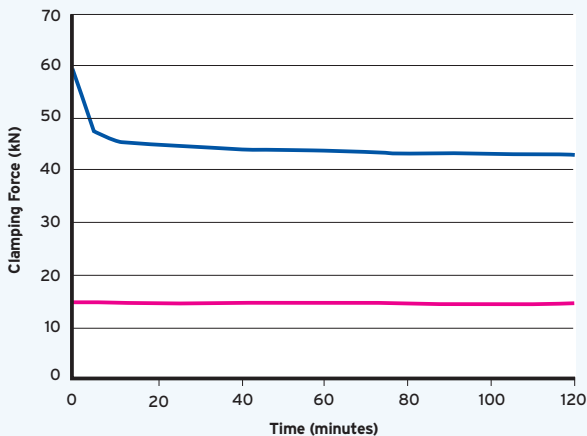
Hollo-Bolt Clamping Force

Hollo-Bolts are optimised for structural connections and the larger M16 and M20 sizes feature a High Clamping Force (HCF) mechanism. The graphs below compare the performance of a Hollo-Bolt HCF and an expansion bolt of the same size without the mechanism.

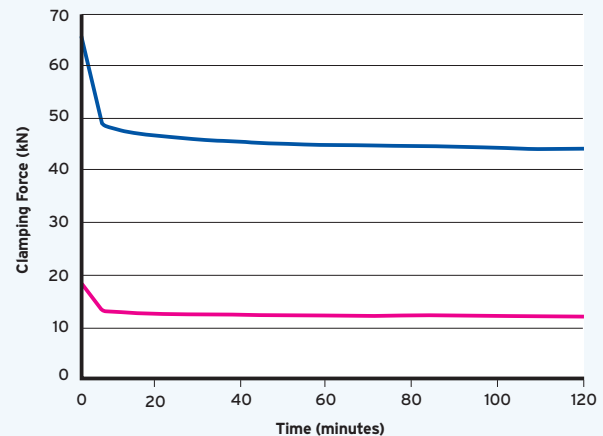
Clamping Force Typical Performance Increase

■ Hollo-Bolt HCF (With Mechanism)
Hot Dip Galvanised, Size 2 ■ (Without Mechanism)
Hot Dip Galvanised, Size 2

M16: Up to 3 times more clamping force



M20: Up to 3.5 times more clamping force

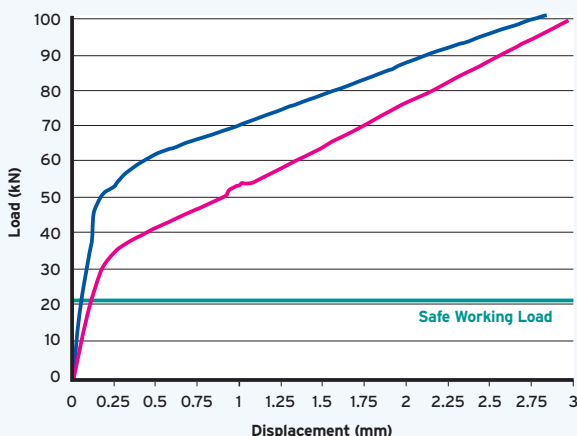


As with any structural bolt, immediately after installation the bolt relaxes until a typical clamping force is reached. The typical clamping force of the Hollo-Bolt (HCF) is over **three times higher** than the same sized product without the HCF mechanism. This results in a more secure connection and a greater force that has to be overcome before displacement begins.

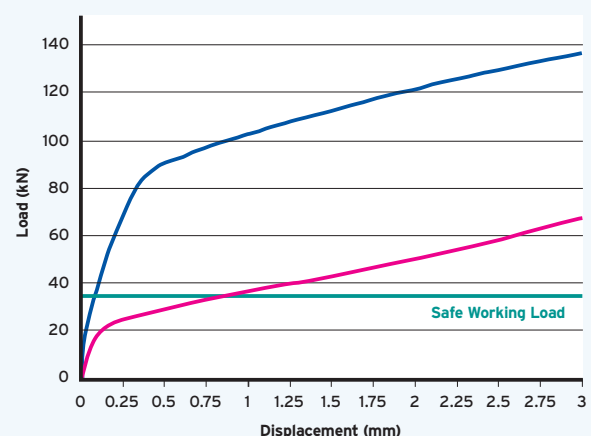
Displacement Typical Performance Increase

■ Hollo-Bolt HCF (With Mechanism)
Hot Dip Galvanised, Size 2 ■ (Without Mechanism)
Hot Dip Galvanised, Size 2

M16: Connection Load vs Ply Displacement



M20: Connection Load vs Ply Displacement



The graphs above show the significance of increased clamping force. The blue curve demonstrates the superior performance of the Hollo-Bolt HCF in contrast to M16 and M20 sized products without Lindapter's patented mechanism. At Safe Working Load, displacement (movement in the connection) is minimised when using the Hollo-Bolt HCF for a safer and more secure connection.

➤ Graphs for illustration purposes only, see page 42 and 43 for connection design.