

# Gripple Universal Clamp Load Test Report



This test report provides load test results on the performance of the product under normal and abused conditions.

## TEST CONFIGURATION

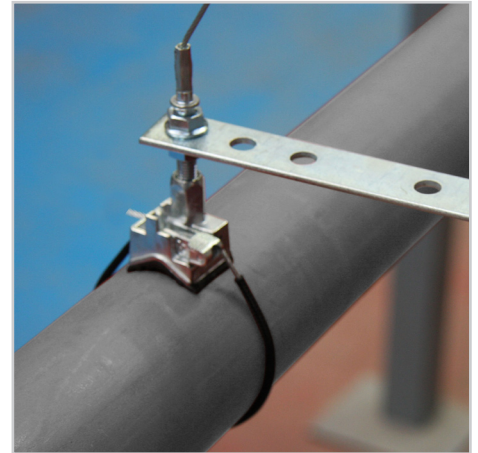
The product was tested initially:

A) Under normal conditions with the lever fully engaged in the locked down position:

- Sustained load at 225 kg for 100 hours
- Pull test load of 225 kg

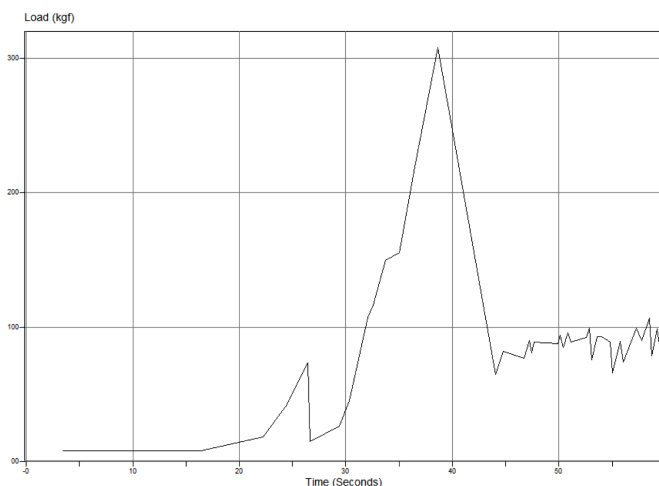
B) Under abused conditions with the lever disengaged in the unlocked vertical position:

- Sustained load at 225 kg for 100 hours
- Pull test load of 225 kg



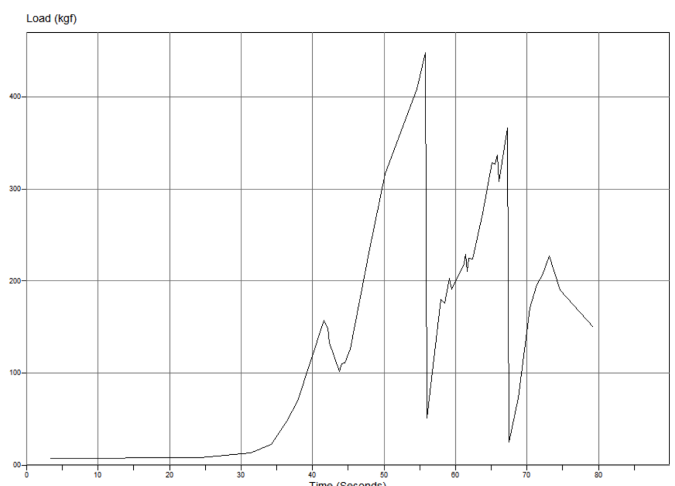
## (A) NORMAL CONDITIONS

- Sustained load: pass
- Pull test load: pass - wire break at 473 kg



## (B) ABUSED CONDITIONS

- Sustained load: pass
- Pull test load: pass – wire break at 303 kg



## INSTANT DROP TEST (shock load test)

A further drop test, (shock load test), was carried out as follows:

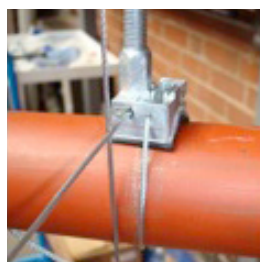
- The product was subjected to a shock load of 11 kg from a height of 300 mm.
- The product was subjected to a force of 3234N per centimeter distance travelled after impact.

The impact force from this falling object is expressed:  $F_{avg} = \frac{1}{2}mv^2/d$

With lever fully engaged and locked down:

The wire rope maintained full integrity and continued to support the load.

2 mm gap created between clamp and pipe. No damage to either housing or lever



With lever in the unlocked vertical position:

The lever was displaced, but the slightly damaged wire held integrity and continued to fully support the load.

