

Ref: Civil-Aid:MT:AG/1/924(b) Test order dated: 11.1.2013

M/s. Ripple Construction Products Pvt. Ltd.

EWS 4, BK Uda SR Nagar HYDERABAD 500 038

Date: 21.1.2013

Source of sample

Sample supplied by the customer

TEST REPORT ON RI BARS AND THREADED ANCHOR SAMPLES

Reference

Letter dated 11.1.2013

Period of test

11.1.2013 to 17.1.2013

Test Procedure

Tests conducted by using V Fix chemical anchor in M25 grade of concrete fixing Anchor bolts and Reinforcement bars of various diameter as

detailed in test reports. We have also conducted tests till failure load and

the following data outlines.

Rebars with V Fix

| Sl. No | Bar dia (mm) | Hole Dia (mm) | Hole depth (mm) | Max. Failure Load (kN) | Recommended load as per customer's specification (kN) | Observation | Factor of safety against recommended load |
|-----------|--------------------|---------------------|-----------------------|---------------------------------|---|------------------|--|
| 1 | 8 | 12 | 80 | 32.94 | 8.6 | Steel bar cut | 3.8 |
| 2 | 10 | 14 | 90 | 53.04 | 13.5 | Steel bar cut | 3.9 |
| 3 | 12 | 16 | 110 | 48.04 | 19.7 | Concrete failure | 2.4 |
| 4 | 16 | 20 | 125 | 82.14 | 28.0 | Concrete failure | 2.9 |

Anchor Bolt with V Fix

| SI. No | Bar dia (mm) | Hole Dia (mm) | Hole depth (mm) | Max. Failure Load (kN) | Recommended load as per customer's specification (kN) | Observation | Factor of safety against recommended load |
|-----------|--------------------|---------------------|-----------------------|---------------------------------|---|------------------|--|
| 1 | 8 | 10 | 80 | 22.32 | 8.1 | Anchor bolt cut | 2.8 |
| 2 | 10 | 12 | 90 | 36.58 | 11.2 | Anchor bolt cut | 3.4 |
| 3 | 12 | 14 | 110 | 42.78 | 16.5 | Bond failure | 2.6 |
| 4 | 16 | 18 | 125 | 60.58 | 24.9 | Concrete failure | 2.4 |

Test Witnessed by:

1. Mr. Bharath Kumar, Regional Manager of M/s. Ripple Construction Products Pvt. Ltd. and

2. Mr. Nunna Rao, Managing Director of

M/s. Ripple Construction Products Pvt. Ltd.

* As furnished by the customer.

Note: 1. The results relate only to the items tested.

2. Report shall not be reproduced except in full, without the written approval of the lab.

3. Any correction invalidates this report.

for CIVIL AID TECHNOCLINIC PVT. LTD.

Chrost 21/1/13

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