

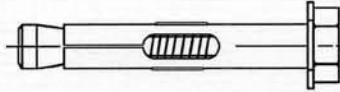


NUTEK SYSTEMS, LTD.

Unit B, 13/F., Universal Ind. Ctr.,
23-25 Shan Mei Street,
Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2605 5736 Fax: (852) 2692 0798
E-mail: nutek@nuteksystems.com

TEST REPORT

TITLE : Testing of Anchor Bolt
OUR REFERENCE NO. : J14131A
DESCRIPTION OF SAMPLE : M8x60mm Stainless steel (grade 304) bolt type sleeve anchor



SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.
(web-site : <http://www.pipe-clips.com>)

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

BODY MARKINGS :  CS3801 A2
M8x60mm

COUNTRY OF ORIGIN : China


TEST REQUIRED : Pull-out Test

PERIOD OF TESTS : 29th to 30th December 2009

RESULTS: -

PULL-OUT TEST

- 1) A concrete wall made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) having a minimum compressive strength of 30 N/mm² was used for the following tests.
- 2) A hole was drilled on the concrete wall by using a Ø10mm drill. The anchor sample was installed into the hole. An increasing pulling force was then applied to the bolt end, trying to pull out the anchor from the wall.
- 3) The minimum pulling force required to detach the anchor sample from the concrete wall was found to be 2138 kgf.

Date : 14th January 2010 Authorized signature : 

Nutek Systems is a testing agency,
approved by the Water Authority and
Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu

(Director)



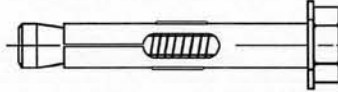


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TEST REPORT

TITLE : Testing of Anchor Bolt
OUR REFERENCE NO. : J14131B
DESCRIPTION OF SAMPLE : M8x60mm Stainless steel (grade 316) bolt type sleeve anchor



SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.
(web-site : <http://www.pipe-clips.com>)

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

BODY MARKINGS :  CS3801 A4
M8x60mm

COUNTRY OF ORIGIN : China


TEST REQUIRED : Pull-out Test

PERIOD OF TESTS : 29th to 30th December 2009

RESULTS: -

PULL-OUT TEST

- 1) A concrete wall made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) having a minimum compressive strength of 30 N/mm² was used for the following tests.
- 2) A hole was drilled on the concrete wall by using a Ø10mm drill. The anchor sample was installed into the hole. An increasing pulling force was then applied to the bolt end, trying to pull out the anchor from the wall.
- 3) The minimum pulling force required to detach the anchor sample from the concrete wall was found to be 2336 kgf.

Date : 14th January 2010 Authorized signature : 

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Samson W.K. Yiu

(Director)

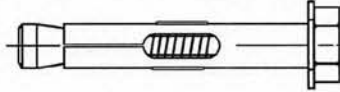


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TEST REPORT

TITLE : Testing of Anchor Bolt
OUR REFERENCE NO. : J14131C
DESCRIPTION OF SAMPLE : M10x65mm Stainless steel (grade 304) bolt type sleeve anchor



SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.
(web-site : <http://www.pipe-clips.com>)

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

BODY MARKINGS :  CS3802 A2
M10x65mm

COUNTRY OF ORIGIN : China


TEST REQUIRED : Pull-out Test

PERIOD OF TESTS : 29th to 30th December 2009

RESULTS: -

PULL-OUT TEST

- 1) A concrete wall made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) having a minimum compressive strength of 30 N/mm² was used for the following tests.
- 2) A hole was drilled on the concrete wall by using a Ø12mm drill. The anchor sample was installed into the hole. An increasing pulling force was then applied to the bolt end, trying to pull out the anchor from the wall.
- 3) The minimum pulling force required to detach the anchor sample from the concrete wall was found to be 2733 kgf.

Date : 14th January 2010 Authorized signature : 

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(Director)

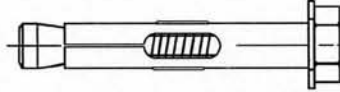


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TEST REPORT

TITLE : Testing of Anchor Bolt
OUR REFERENCE NO. : J14131D
DESCRIPTION OF SAMPLE : M10x65mm Stainless steel (grade 316) bolt type sleeve anchor



SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.
(web-site : <http://www.pipe-clips.com>)

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

BODY MARKINGS :  CS3802 A4
M10x65mm

COUNTRY OF ORIGIN : China


TEST REQUIRED : Pull-out Test

PERIOD OF TESTS : 29th to 30th December 2009

RESULTS: -

PULL-OUT TEST

- 1) A concrete wall made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) having a minimum compressive strength of 30 N/mm² was used for the following tests.
- 2) A hole was drilled on the concrete wall by using a Ø12mm drill. The anchor sample was installed into the hole. An increasing pulling force was then applied to the bolt end, trying to pull out the anchor from the wall.
- 3) The minimum pulling force required to detach the anchor sample from the concrete wall was found to be 2860 kgf.

Date : 14th January 2010 Authorized signature : 

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