



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-1

DESCRIPTION OF SAMPLE : Ø15mm (½") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 15mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 3/16" x 5/8" screws and nuts. (Factory confirmed that M5x15mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

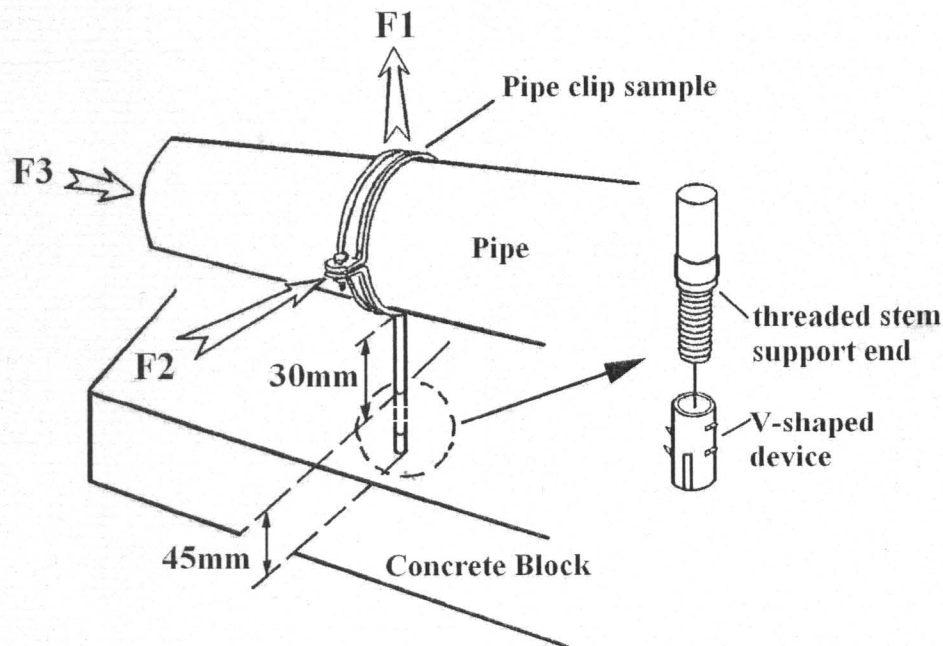
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: - LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





NUTEK SYSTEMS, LTD.


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TEST REPORT

OUR REFERENCE NO. J13543-1 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 15mm hot water copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	220	68

Date : 4th June 2009 Authorized signature : 

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approved by the Water Authority and
Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-2

DESCRIPTION OF SAMPLE : Ø20mm (¾") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 15mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 3/16" x 5/8" screws and nuts. (Factory confirmed that M5x15mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

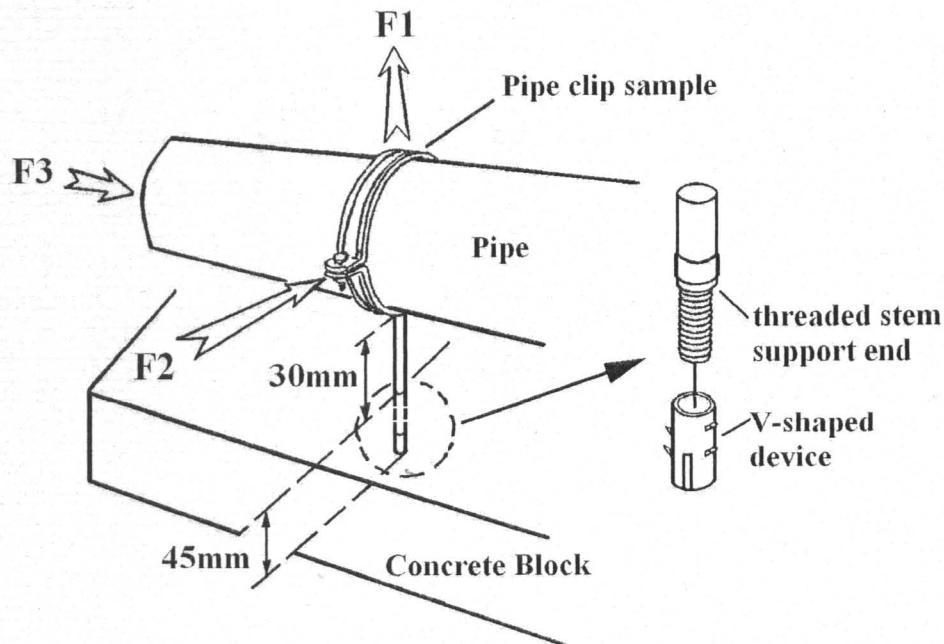
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: - LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-2 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 20mm hot water copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	210	53

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-3

DESCRIPTION OF SAMPLE : Ø28mm (1") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 15mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 3/16" x 5/8" screws and nuts. (Factory confirmed that M5x15mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

COUNTRY OF ORIGIN : China

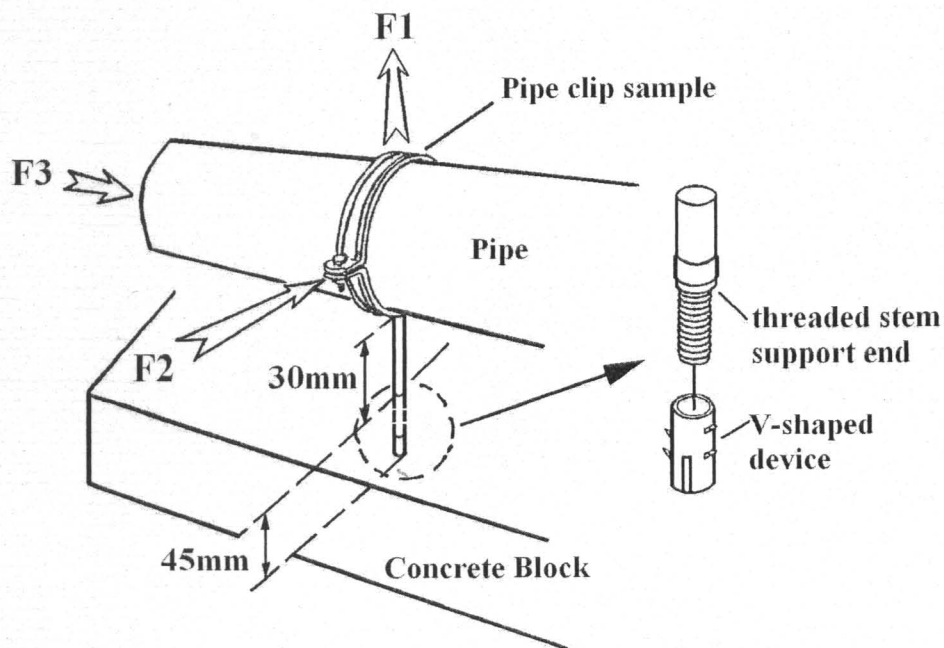
TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: -

LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-3 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 28mm hot water copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	188	97

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-4

DESCRIPTION OF SAMPLE : Ø35mm (1¼") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 15mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 3/16" x 5/8" screws and nuts. (Factory confirmed that M5x15mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

COUNTRY OF ORIGIN : China

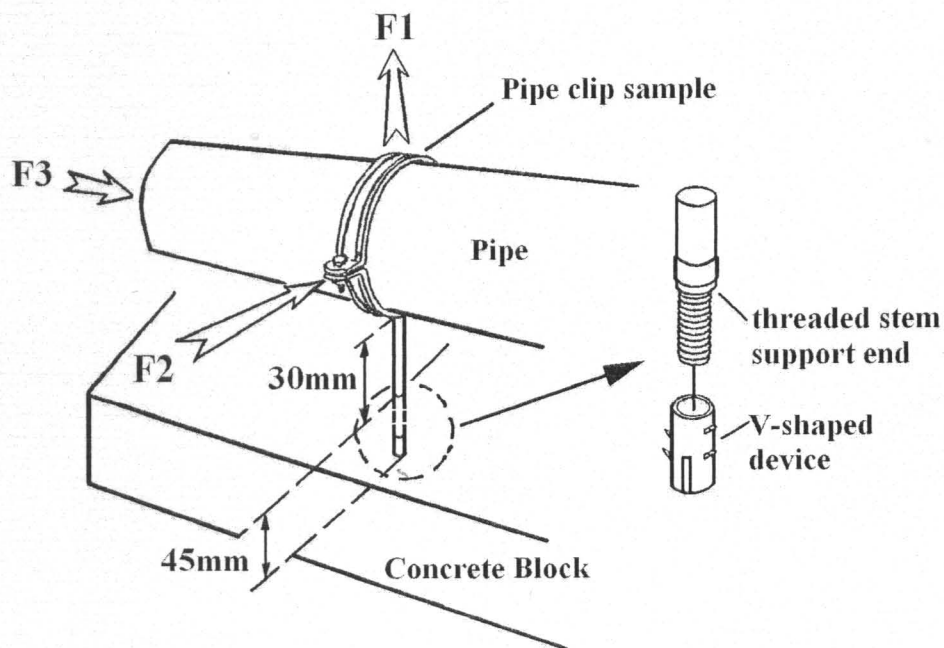
TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: -

LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT


OUR REFERENCE NO. J13543-4 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 35mm hot water copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	180	100

Date : 4th June 2009 Authorized signature : _____

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-5

DESCRIPTION OF SAMPLE : Ø42mm (1½") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 15mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 3/16" x 5/8" screws and nuts. (Factory confirmed that M5x15mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

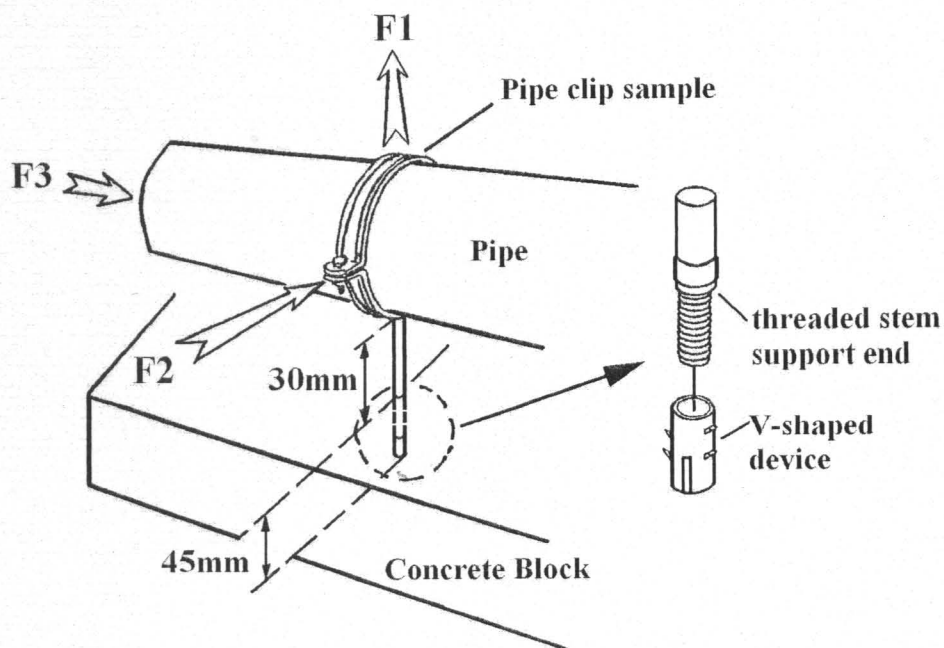
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: - LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-5 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 15mm copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	168	132

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-6

DESCRIPTION OF SAMPLE : Ø54mm (2") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 18mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with 1/4" x 3/4" screws and nuts. (Factory confirmed that M6x20mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

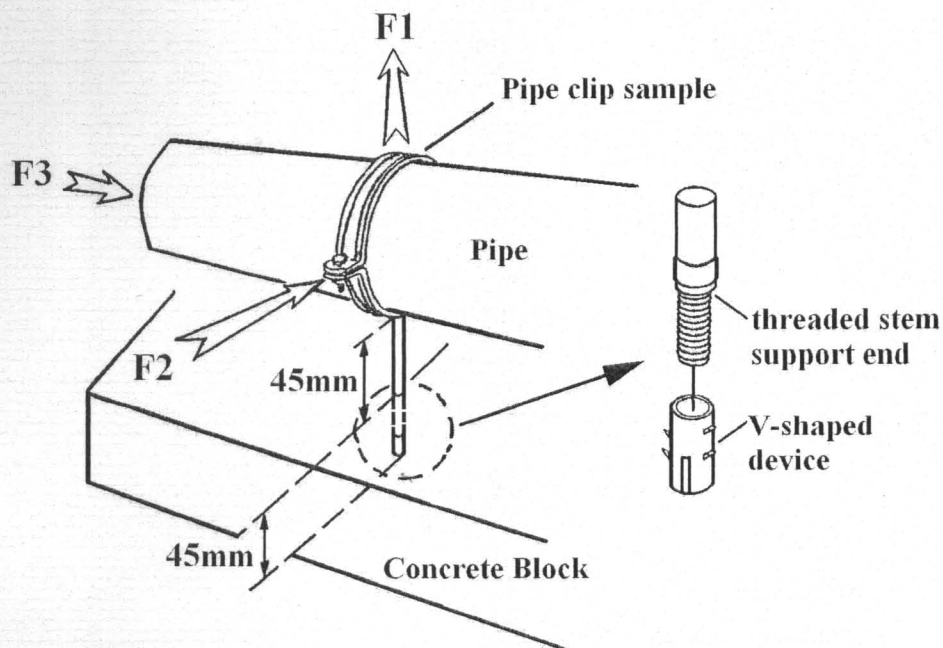
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: - LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO.J13543-6 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 54mm copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	152	134

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-7

DESCRIPTION OF SAMPLE : Ø66.7mm (2½") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 18mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts. (Factory confirmed that M6x20mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

COUNTRY OF ORIGIN : China

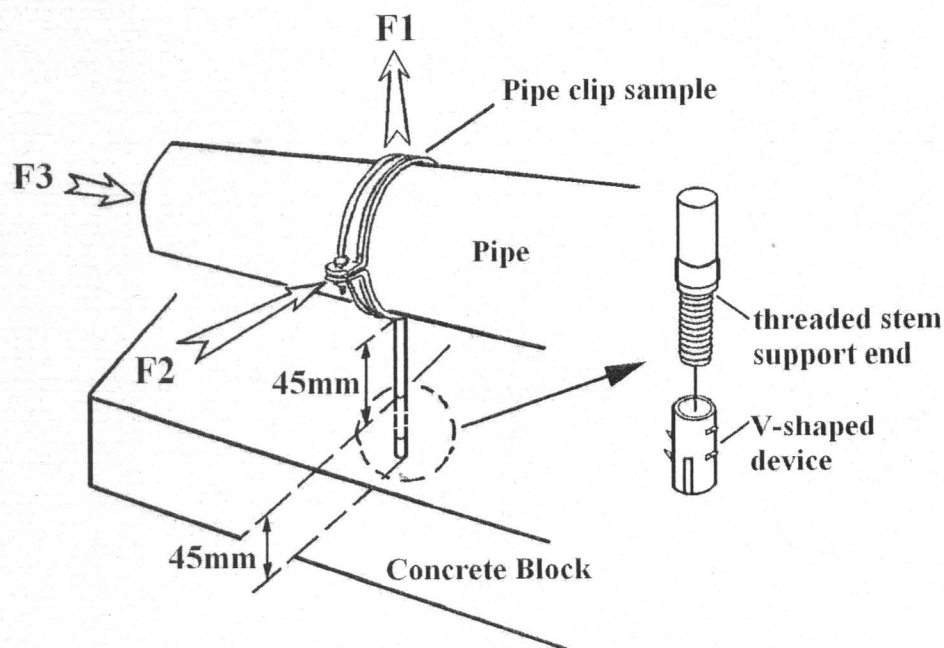
TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: -

LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-7 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 66.7mm copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
280	123	138

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-8

DESCRIPTION OF SAMPLE : Ø76mm (3") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 19mm width x 2.5mm thick ring; with Ø12mm support stem electrically welded onto the ring; with 1/4" x 3/4" screws and nuts. (Factory confirmed that M6x20mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

COUNTRY OF ORIGIN : China

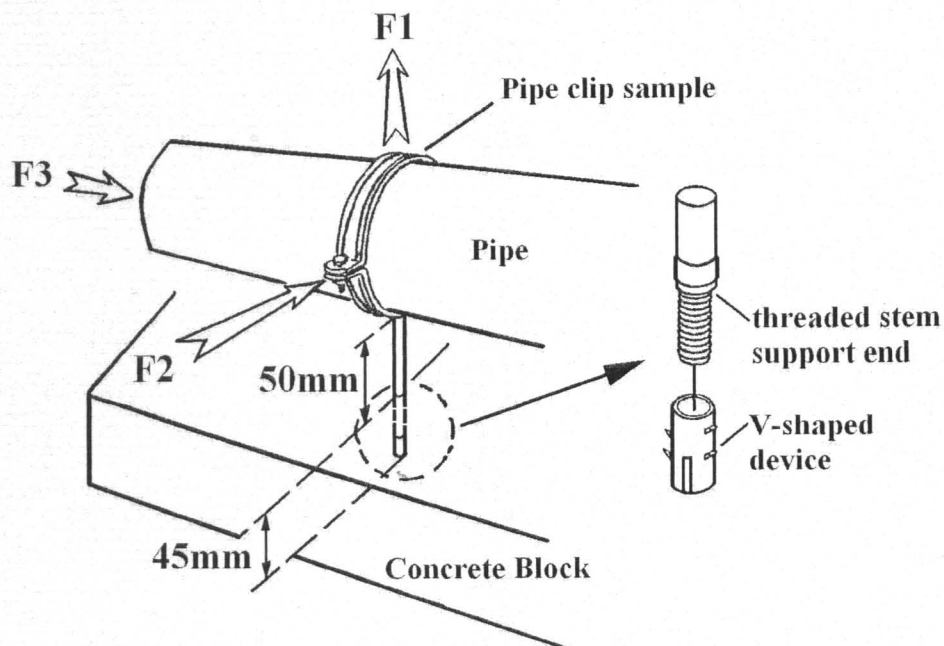
TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: -

LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-8 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 76mm copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
380	180	182

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of New Patented Applied V-Shaped Tail Pipe Clip

OUR REFERENCE NO. : J13543-9

DESCRIPTION OF SAMPLE : Ø108mm (4") Stainless steel pipe clip supplied with plastic V-shaped tail device; for BSEN1057 copper tube; dimensions: 25mm width x 3mm thick ring; with Ø12mm support stem electrically welded onto the ring; with 5/16" x 1" screws and nuts. (Factory confirmed that M8x25mm screws and nuts are also available) Patent No.: ZL2007 2 0183080.4

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 : 

COUNTRY OF ORIGIN : China

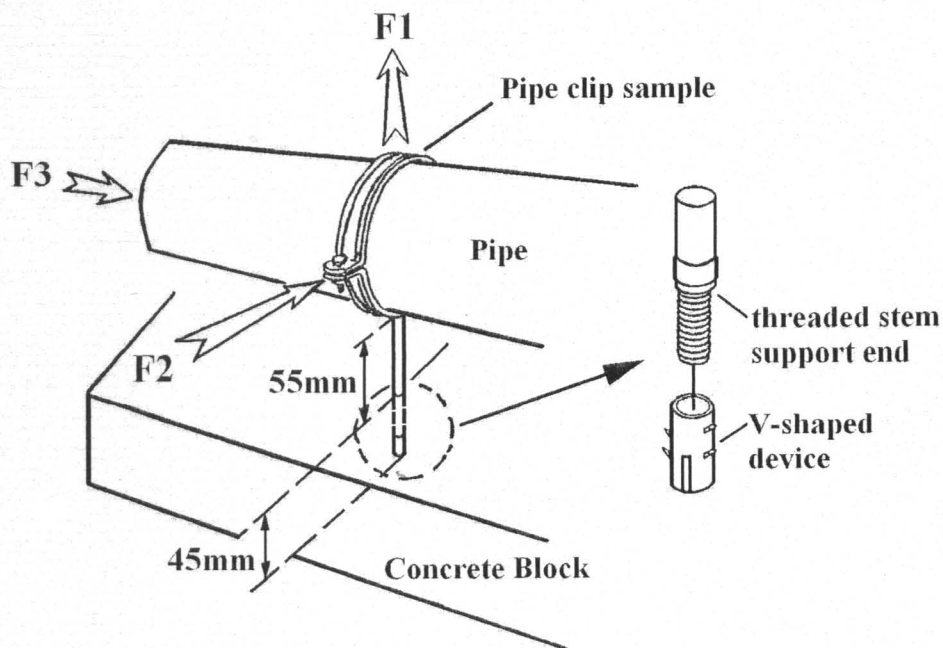
TEST REQUIRED : Loading test

PERIOD OF TESTS : 14th April to 14th May 2009

RESULTS: -

LOADING TEST

1. A concrete block made of concrete mix grade 30D10 (cement to BS12: 1978 and Aggregate to BS882: 1973) was prepared and used for the loading test.
2. The plastic V-shaped tail device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO. J13543-9 (P.2)

3. The concrete block was secured to the loading test frame. A hole was drilled on the concrete block; the pipe clip's support stem was hammered into the hole. The pipe clip was further screwed into the hole until it was hand-tight; the length of the concealed part of the support stem was now about 40mm to 50mm. A 108mm copper tube was then clamped by the pipe clip.
4. The vertical pulling force **F1** applied to detach the pipe clip from the concrete block was measured.
5. Steps 1 to 3 were repeated. A horizontal force **F2** applied to the pipe clip (perpendicular to the pipe axis) to result in a 20mm horizontal deflection was measured.
6. Steps 1 to 3 were repeated. A horizontal force **F3** acting on the pipe along its longitudinal axis to slip the pipe from the pipe clip by 20mm was measured.
7. Result :

Vertical force F1 to detach the pipe clip from the concrete block (kgf)	Horizontal force F2 to result in a 20mm horizontal deflection (kgf)	Horizontal force F3 to slip the pipe by 20mm (kgf)
380	182	168

Date : 4th June 2009 Authorized signature : 

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Samson W.K. Yiu

(Director)