



TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-1

DESCRIPTION OF SAMPLE : Ø32mm (1¼") Stainless steel pipe clip supplied with plastic wall filling device; for BS5255 uPVC/plastic drain pipe; 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.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO :  Pipe Clips

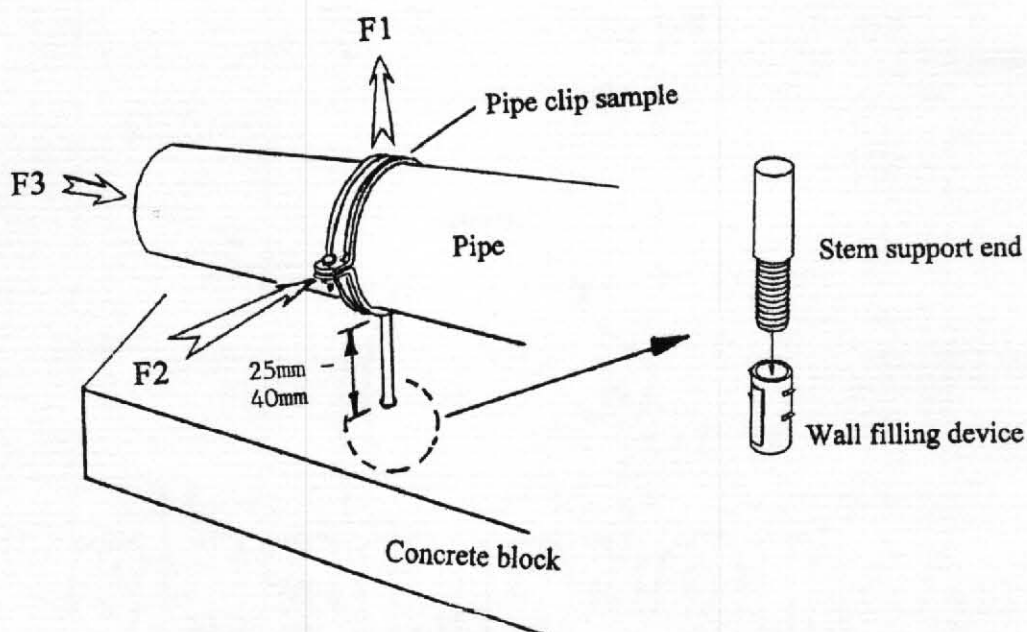
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO. J8861-1 (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. An uPVC drain pipe of BS5255 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	229.4	183.5

Date : 15th February 2003 Authorized signature : 

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Government Supplies Department, for
testing water supply fittings.

Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-2

DESCRIPTION OF SAMPLE : Ø40mm (1½") Stainless steel pipe clip supplied with plastic wall filling device; for BS5255 uPVC/plastic drain pipe; 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.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO :  *Pipe Clips*

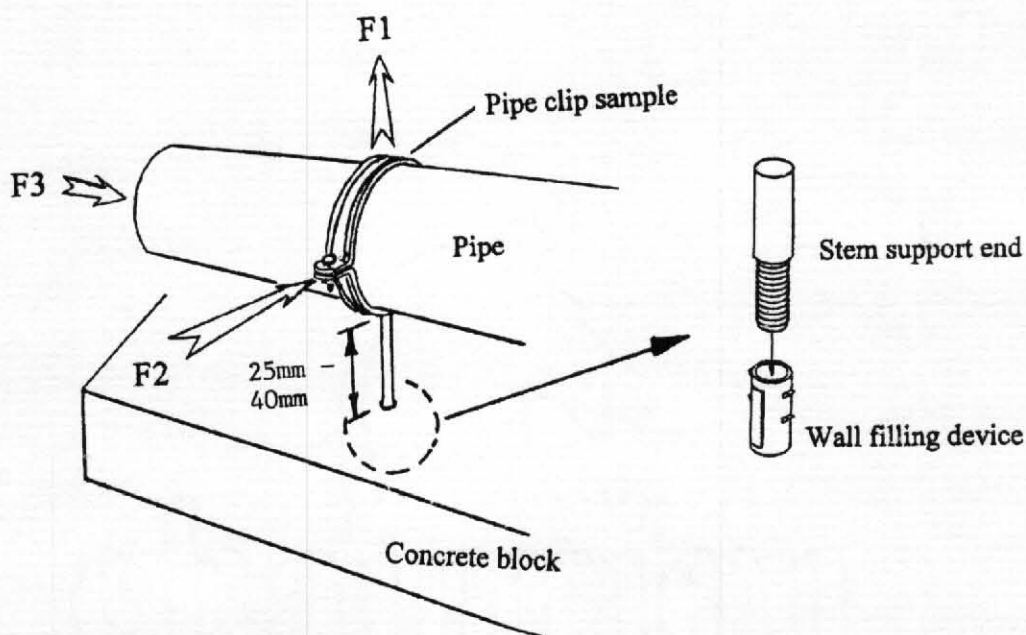
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.





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


TEST REPORT

OUR REFERENCE NO.J8861-2 (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. An uPVC drain pipe of BS5255 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	244.7	168.2

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-3

DESCRIPTION OF SAMPLE : Ø50mm (2") Stainless steel pipe clip supplied with plastic wall filling device; for BS5255 uPVC/plastic drain pipe; dimensions: 18mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

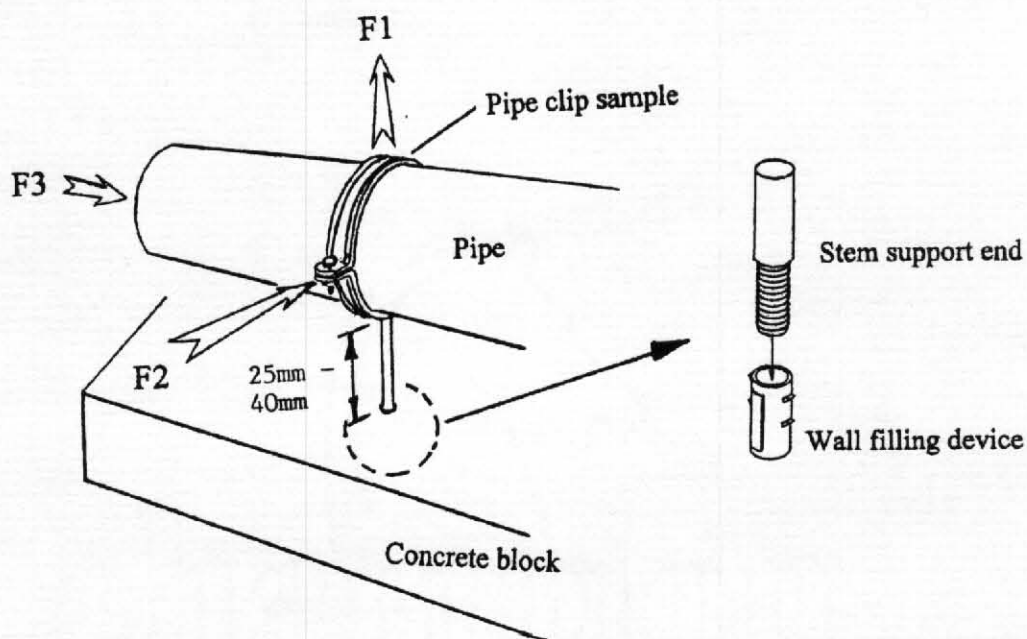
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO.J8861-3 (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. An uPVC drain pipe of BS5255 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	198.8	290.6

Date : 15th February 2003 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-4

DESCRIPTION OF SAMPLE : Ø65mm (2½") Stainless steel pipe clip supplied with plastic wall filling device; for BS4514 uPVC/plastic drain pipe; dimensions: 18mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO :  *Pipe Clips*

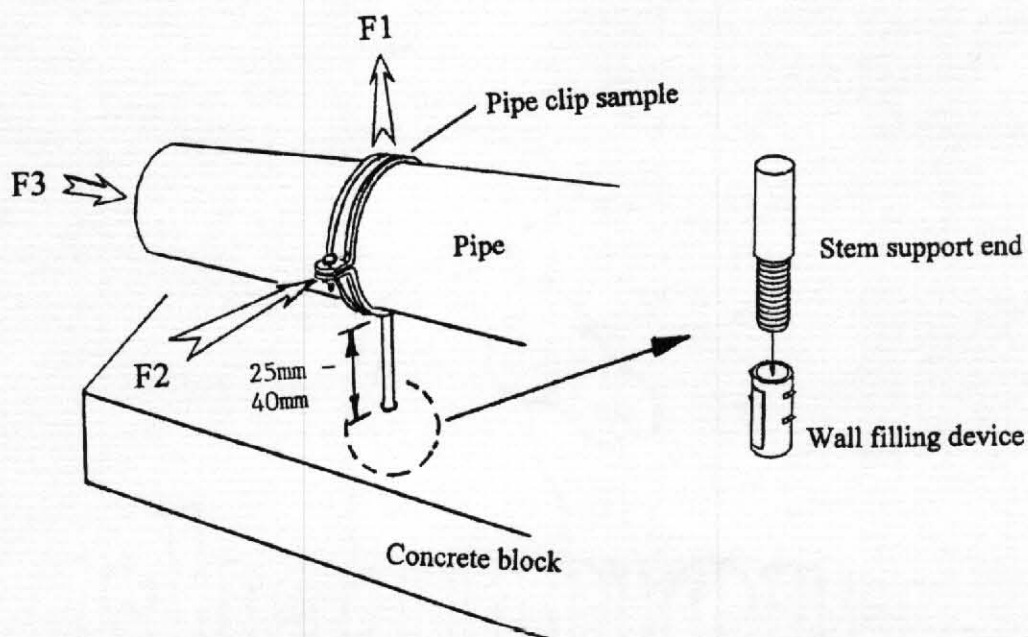
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO. J8861-4 (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. An uPVC drain pipe of BS4514 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	229.4	137.6

Date : 15th February 2003 Authorized signature : 

Samson W.K. Yiu

(Director)

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TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-5

DESCRIPTION OF SAMPLE : Ø80mm (3") Stainless steel pipe clip supplied with plastic wall filling device; for BS4514 uPVC/plastic drain pipe; dimensions: 18mm width x 2.5mm thick ring; with Ø9mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO :  *Pipe Clips*

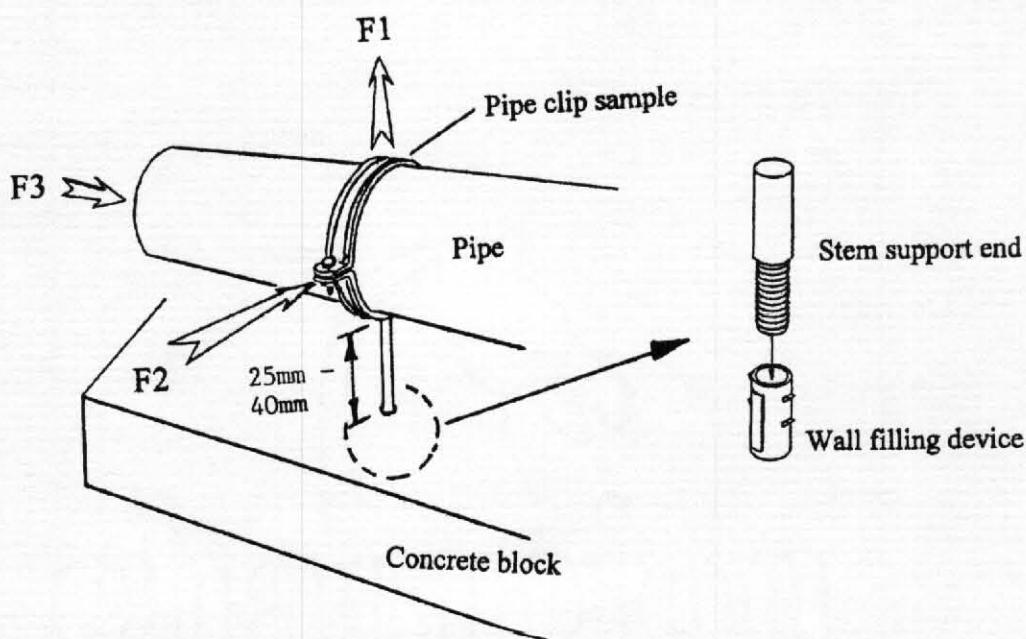
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO.J8861-5 (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. An uPVC drain pipe of BS4514 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	152.9	214.1

Date : 15th February 2003 Authorized signature : 

Samson W.K. Yiu

(Director)

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TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-6

DESCRIPTION OF SAMPLE : Ø100mm (4") Stainless steel pipe clip supplied with plastic wall filling device; for BS4514 uPVC/plastic drain pipe; dimensions: 19mm width x 3mm thick ring; with Ø9mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO :  *Pipe Clips*

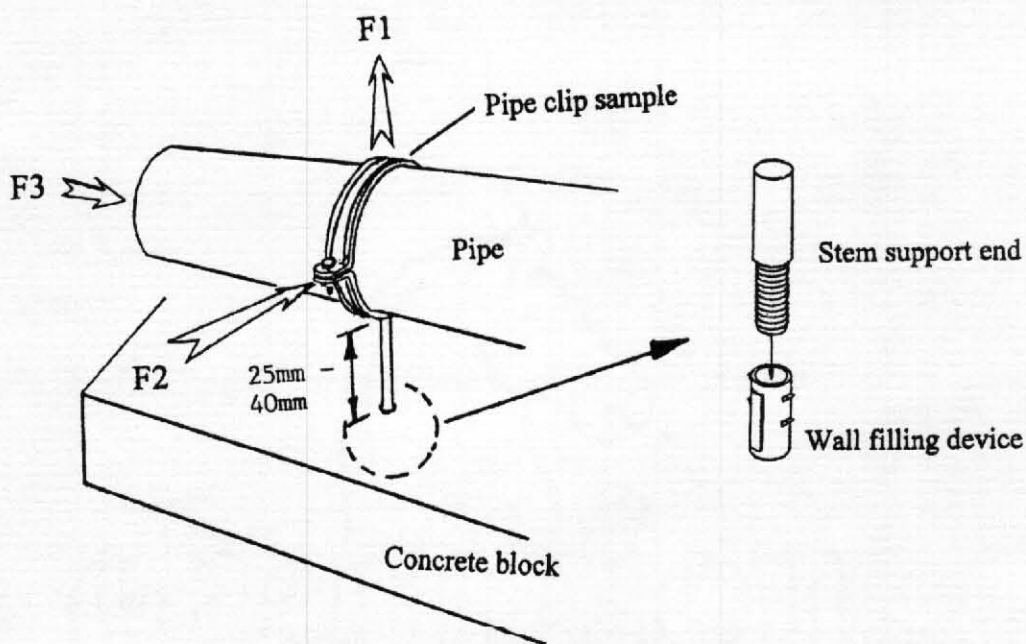
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.





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TEST REPORT

OUR REFERENCE NO.J8861-6 (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. An uPVC drain pipe of BS4514 was connected to 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	Horizontal force F2 to result in a 20mm horizontal deflection	Horizontal force F3 to slip the pipe by 20mm
(kgf)	(kgf)	(kgf)
260	137.6	260.0

Date : 15th February 2003 Authorized signature : 

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Samson W.K. Yiu
(Director)



TEST REPORT

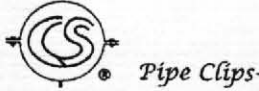
TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-7

DESCRIPTION OF SAMPLE : Ø100mm (4") Stainless steel pipe clip supplied with plastic wall filling device; for BS4514 uPVC/plastic drain pipe; dimensions: 19mm width x 3mm thick ring; with Ø12mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

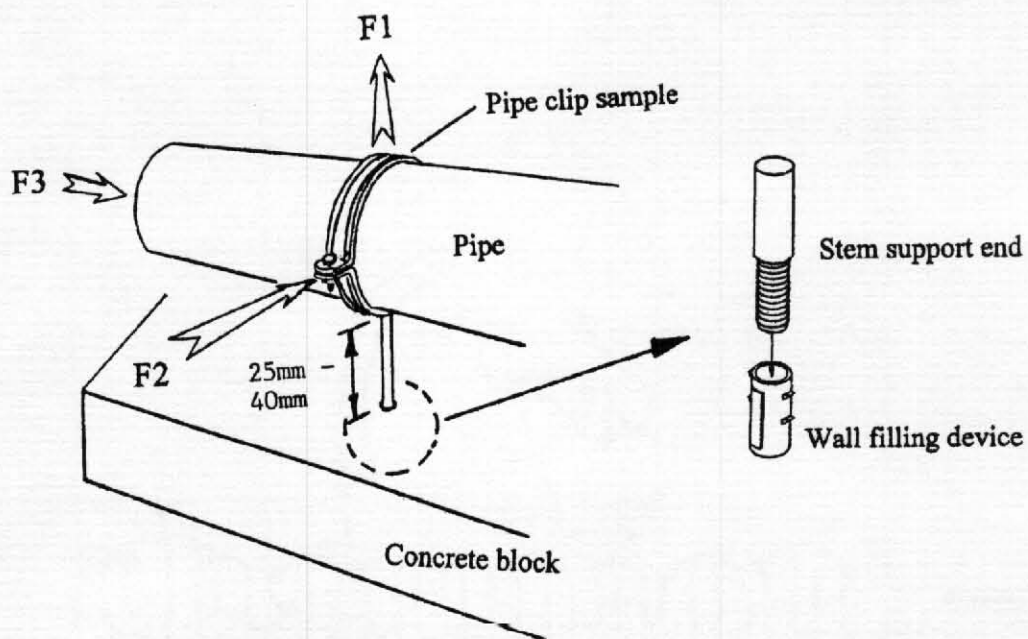
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.






TEST REPORT

OUR REFERENCE NO. J8861-7 (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. An uPVC drain pipe of BS4514 was connected to 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	137.6	260.0

Date : 15th February 2003 Authorized signature : 

Samson W.K. Yiu

(Director)

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TEST REPORT


TITLE : Testing of Pipe Clip

OUR REFERENCE NO. : J8861-8

DESCRIPTION OF SAMPLE : Ø150mm (6") Stainless steel pipe clip supplied with plastic wall filling device; for BS4514 uPVC/plastic drain pipe; dimensions: 19mm width x 3mm thick ring; with Ø12mm support stem electrically welded onto the ring; with ¼" x ¾" screws and nuts.

SAMPLE SUBMITTED BY : Cheung's Engineering Co.
G/F., 90 Tak Cheong Street,
Kowloon, Hong Kong.

MANUFACTURER : Cheung's Engineering Co.

BRAND / LOGO : 

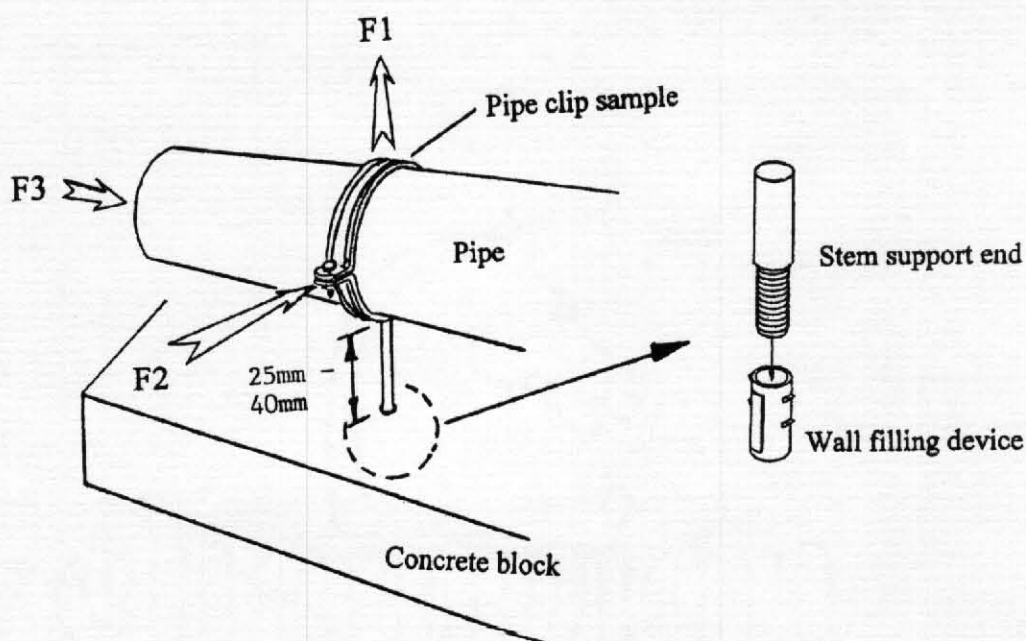
COUNTRY OF ORIGIN : China

TEST REQUIRED : Loading test

PERIOD OF TESTS : 20th to 24th January 2003

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 wall filling device was connected to the end of a new pipe clip's support stem.





TEST REPORT

OUR REFERENCE NO. J8861-8 (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. An uPVC drain pipe of BS4514 was connected to 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	122.3	183.5

Date : 15th February 2003 Authorized signature : _____

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Samson W.K. Yiu

(Director)