

Materials Submission  
Drainage goods  
leading to  
PNAP 282, 53 and 251

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# Buildings Department Practice Note for Authorized Persons and Registered Structural Engineers



**PNAP 282**  
Cast Iron Pipes for Drainage Works



**PNAP 53**  
Application for Occupation Permit (OP)  
and Submission of Record Plan and Information



**PNAP 251**  
Testing of Building Materials



Buildings Department  
PNAP 282

# Cast Iron Pipes for Drainage Works

## Cast Iron Pipes for Drainage Works

Cast iron (C.I.) pipes in some existing buildings have presented premature rusting, leakage and corroded metal fixing supports. This is unsatisfactory from public safety, health and environmental hygiene point of view. The following guidelines are provided for authorised persons in specifying the quality and choice of C.I. pipes in their projects:

- (a) All pipes and fittings shall be in accordance with the relevant British Standards Specifications or other equivalent standards. (For example, BS416:Part 1 or BS EN877 for C.I. pipes for above-ground drains; BS 437 or BS 4622 for underground system and above-ground drains larger than 150mm diameter.)
  - (b) The pipes and fittings should be suitably coated internally and externally to prevent corrosion. When cold applied bitumen-based coating is proposed, the coating material should comply with BS 3416 or other equivalent international standards. External coating should contain anti-corrosion inhibitors, normally used on metallic structures;
  - (c) The C.I. pipes should be in a state to permit the application of additional external finishing coatings; and
  - (d) Corrosion-resistant fixings such as stainless steel brackets and connections or similar corrosion-resistant fixing supports should be used. The fixings should be properly anchored into solid wall.
2. For approval of drainage plans after 1 November 2004, the Building Authority will require, under section 28(1) of the Buildings Ordinance, C.I. pipes to comply with the above requirements. Such pipes will also need to be included in the Schedule of Building Materials and Products under Practice Note to Authorized Persons and Registered Structural Engineers 53 when applying for occupation permit.

Ref : BD GP/BREF/SF/1 (III)

First issue November 2003 (AD/NB1)

Index under : Cast iron drainage pipes

Drainage works – cast iron pipes

(Marco M H WU)  
Building Authority



## Cast Iron Pipes for Drainage Works

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**(a)地面以上排水系統用BS416:Part 1(黑坭)或BS EN877(紅坭)地面以上排水系統內徑大過150mm用BS437或BS4622(黑坭)地底排水系統用BS437或BS4622(黑坭)**

(b) The pipes and fittings should be suitably coated internally and externally to prevent corrosion. When cold applied bitumen-based coating is proposed, the coating material should comply with BS 3416 or other equivalent international standards. External coating should contain anti-corrosion inhibitors, normally used on metallic structures;

**(b)坭身內、外瀝青油要符合BS 3416**



- (c) The C.I. pipes should be in a state to permit the application of additional external finishing coatings; and
- (d) Corrosion-resistant fixings such as stainless steel brackets and connections or similar corrosion-resistant fixing supports should be used. The fixings should be properly anchored into solid wall.

2. For approval of drainage plans after 1 November 2004, the Building Authority will require, under section 28(1) of the Buildings Ordinance, C.I. pipes to comply with the above requirements. Such pipes will also need to be included in the Schedule of Building Materials and Products under Practice Note to Authorized Persons and Registered Structural Engineers 53 when applying for occupation permit.

2. 根據香港法例第123章，建築物條例第28(1)條的要求，生鐵管必須符合上述之要求，才能獲得BD批准渠則。當申請入伙紙(OP)時，生鐵管必須在PNAP 53中的建築物材料及產品表格內申報。

Ref : BD GP/BREF/SF/1 (III)  
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Index under : Cast iron drainage pipes  
Drainage works – cast iron pipes

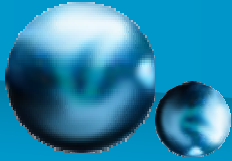
(Marco M H WU)  
Building Authority



# PNAP 282 Major issues

- 1) All pipes and fittings shall be in accordance with the relevant British Standards Specifications or other equivalent standards. (For example, **BS416:Part 1** or **BSEN877** for C.I. pipes for above-ground drains; **BS 437** or **BS 4622** for underground system and above-ground drains larger than 150mm diameter.)
- 2) The pipes and fittings should be suitably coated internally and externally to prevent corrosion. When cold applied bitumen-based coating is proposed, **the coating material should comply with BS 3416** or other equivalent international standards.

- to be continued



# PNAP 282 Major issues

- 3) For approval of drainage plans after 1 November 2004, the Building Authority will require, under section 28(1) of the Buildings Ordinance, C.I. pipes to comply with the above requirements.
  
- 4) Such pipes will also need to be included in the Schedule of Building Materials and Products under Practice Note to Authorized Persons and Registered Structural Engineers 53 when applying for occupation permit.



Chapter: 123

Title: BUILDINGS ORDINANCE

Section: 28(1)

Heading: Drainage

## Individual Section Mode

### Contents of Section

**Chapter: 123**  
**Section: 28**

**Title: BUILDINGS ORDINANCE**  
**Heading: Drainage**

**Gazette Number:**  
**Version Date: 30/06/1997**

- 1) All drainage works for any building shall, save as provided by regulations, be carried out by the owner of such building to the satisfaction of the Building Authority and in compliance with regulations. (Amended 44 of 1959 s. 12)
- (2) Where in the opinion of the Building Authority any group of buildings may be drained more advantageously in combination than separately he may-
- (a) by an order in writing served on the owners of such buildings require to be carried out the necessary drainage works under a combined plan approved by him; or
  - (b) carry out or cause to be carried out such works, and recover the cost thereof from such owners.
- (3) Where in the opinion of the Building Authority the drains or sewers of any building are inadequate or in a defective or insanitary condition he may by an order in writing served on the owner of such building require-
- (a) such drainage works as may be specified in the order to be carried out;
  - (b) an authorized person to be appointed to carry out such investigation in relation to the drains or sewers of such building as may be so specified; and
  - (c) the submission for approval by the Building Authority of proposals for drainage works to be carried out to remedy the inadequacy or the defective or insanitary condition, being proposals based on the findings of the investigation,
- within such time or times as may be specified in the order. (Amended 42 of 1992 s. 3; 77 of 1992 s. 3)
- (4) Where proposals for drainage works are submitted pursuant to an order under subsection (3), the Building Authority may-
- (a) approve the proposals;
  - (b) require amendments to or substitution of the proposals; or
  - (c) refuse to approve the proposals. (Replaced 77 of 1992 s. 3)
- (5) On approving any proposal for drainage works required to be submitted under subsection (3), the Building Authority may by an order in writing served on the owner referred to in that subsection require the carrying out of such approved works within such time as may be specified in the order. (Added 77 of 1992 s. 3)

(6) All investigations specified in an order under this section shall be carried out to such standard acceptable to the Building Authority and in compliance with the regulations. (Added 77 of 1992 s. 3)

(6A) The Building Authority may, upon the service of an order under this section, cause the order to be registered by memorial in the Land Registry against the building to which the order relates. (Added 55 of 1996 s. 8)

(7) Where the owner referred to in subsection (3) cannot be found or fails to comply with any requirements of an order served under this section or where there is a failure to comply with any requirement in subsection (1) or (6) or where approval is refused for proposals submitted under this section, the Building Authority may, without further notice, carry out or cause to be carried out-

(a) all or any part of the drainage works or investigation specified in the order;

(b) such other investigation as he considers to be necessary or expedient; and

(c) such drainage works as he considers to be necessary or expedient to remedy the inadequacy or the defective or insanitary condition, having had regard to the findings of the investigation in relation to the drains or sewers of the building, whether such investigation is done by the owner referred to in subsection (3) or by the Building Authority,

and, subject to subsection (7A), the cost of such drainage works or investigation shall be recoverable from that owner. (Added 77 of 1992 s. 3. Amended 55 of 1996 s. 8)

(7A) If the order has been registered with the Land Registry in accordance with subsection (6A), the cost of any drainage works or investigation that the Building Authority carried out or caused to be carried out under subsection (7) shall be recoverable from any person who, as at the date of completion of the drainage works or investigation (as the case may be), is the owner of the building to which the order relates. (Added 55 of 1996 s. 8)

(7B) A certificate purporting to be under the hand of the Building Authority and stating the date of completion of any drainage works or investigation carried out under subsection (7) shall be prima facie evidence of that fact. (Added 55 of 1996 s. 8)

(8) In cases of emergency the Building Authority may carry out or cause to be carried out such drainage works as may appear to him to be necessary by reason of the emergency either with or without notice to the owner referred to in subsection (3) and the costs thereof shall be recoverable from that owner. (Added 77 of 1992 s. 3)

(9) The decision of the Building Authority that a particular case is one of emergency shall be final and binding on all persons. (Added 77 of 1992 s. 3)

(Amended 44 of 1959 s. 12)

## 單條條文模式 條文內容

章：123      標題：建築物條例      憲報編號：  
條：28      條文標題：排水      版本日期：30/06/1997

- (1) 除規例另有規定外，任何建築物的所有排水工程須由該建築物的擁有人進行，並達致建築事務監督滿意的程度，以及須符合規例。(由1959年第44號第12條修訂)
- (2) 凡建築事務監督認為任何一組建築物聯合排水可能較各自排水更為有利，他可—
- (a) 藉向該等建築物的擁有人送達的書面命令，規定根據經他批准的聯合排水計劃而進行所需的排水工程；或
  - (b) 進行或安排進行該等工程，並向該等擁有人追討工程費用。
- (3) 凡建築事務監督認為任何建築物的排水渠或污水渠不足夠或處於欠妥或不衛生的狀況，他可藉向該建築物的擁有人送達的書面命令，規定在命令所指明的期限之內—
- (a) 進行命令所指明的排水工程；
  - (b) 委任一名認可人士進行如此指明的關於該建築物的排水渠或污水渠的勘測；及
  - (c) 將根據勘測結果所提出的進行排水工程以補救不足夠或欠妥或不衛生的狀況的建議，呈交建築事務監督批准。(由1992年第42號第3條修訂；由1992年第77號第3條修訂)
- (4) 凡有排水工程建議依據第(3)款所指的命令呈交，建築事務監督可—
- (a) 批准該等建議；
  - (b) 規定就該等建議作出修訂或以其他建議取代；或
  - (c) 拒絕批准該等建議。(由1992年第77號第3條代替)

(5) 建築事務監督在批准根據第(3)款規定呈交的任何排水工程建議時，可藉向該款所提述的擁有人送達的書面命令，規定在命令所指明的期限之內進行經批准的工程。(由1992年第77號第3條增補)

(6) 根據本條作出的命令所指明的所有勘測的進行，須達到建築事務監督接受的標準，並須符合規例。(由1992年第77號第3條增補)

(6A) 建築事務監督可在根據本條送達命令後，安排將命令以註冊摘要的方式在土地註冊處針對命令所關乎的建築物而註冊。(由1996年第55號第8條增補)

(7) 如不能尋獲第(3)款所提述的擁有人，或該擁有人沒有遵從根據本條送達的命令內的任何規定，或如第(1)或(6)款的規定不獲遵從，又或如根據本條呈交的建議被拒絕批准，則建築事務監督可無須再行通知而進行或安排進行

(a) 命令所指明的所有排水工程或勘測或其任何部分；

(b) 他認為必需或合宜的其他勘測；及

(c) 他在顧及關於該建築物排水渠或污水渠的勘測結果後(不論該項勘測由第(3)款所提述的擁有人或由建築事務監督進行)，認為為補救不足夠或欠妥或不衛生的狀況而必需或合宜的排水工程，

而除第(7A)條另有規定外，該排水工程或勘測的費用可向該擁有人追討。(由1992年第77號第3條增補。由1996年第55號第8條修訂)

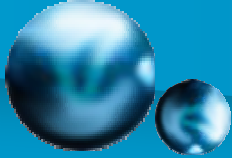
(7A) 如命令已按照第(6A)款在土地註冊處註冊，則由建築事務監督根據第(7)款進行或安排進行的任何排水工程或勘測的費用，可向在排水工程或勘測(視屬何情況而定)完成之日是命令所關乎的建築物的擁有人的人追討。(由1996年第55號第8條增補)

(7B) 一份看來是由建築事務監督簽署並述明根據第(7)款進行的任何排水工程或勘測的完成日期的證明書，即為該事實的表面證據。(由1996年第55號第8條增補)

(8) 如有緊急情況，建築事務監督可在通知或不通知第(3)款所提述的擁有人的情況下，進行或安排進行他覺得因該緊急情況而必需的排水工程，而有關費用可向該擁有人追討。(由1992年第77號第3條增補)

(9) 如建築事務監督決定某個別情況屬緊急情況，則該項決定即為最終決定，並對所有人具約束力。(由1992年第77號第3條增補)

(由1959年第44號第12條修訂)



Chapter: 123 BUILDINGS ORDINANCE Section: 28 (1)  
Major Issue

All drainage works for any building shall, save as provided by regulations, be carried out by the owner of such building to the satisfaction of the Building Authority and in compliance with regulations. (Amended 44 of 1959 s. 12)



Application for Occupation Permit (OP)  
and  
Submission of Record Plan and Information

## **Submission of Certificate of Completion of Building Works Application for Occupation Permit (OP) and Submission of Record Plans and Information**

### **Submission of Certificate of Completion of Building Works**

Upon the completion of buildings works, a certificate of completion of building works not resulting in a new building, (Forms BA14/14A), or resulting in a new building (Form 12/13) should be submitted in accordance with Building (Administration) Regulation 25. While there is no statutory time limit under the Buildings Ordinance for processing such certificates, the Buildings Department will generally provide a reply to Form 14/14A within 28 days advising on the acceptance of the completed works or the outstanding issues to be rectified. As a certificate of completion of new buildings and application for OPs are usually submitted together in Form BA12 or 13, they will be processed together within 14 days in accordance with section 21 of the Buildings Ordinance.

### **Simultaneous Submission of Amended Building Plans and Application for OP**

2. A Form BA 12/13 is sometimes submitted at or about the same time as the submission of amended plans for approval. This would complicate the processing process. In line with the declaration on Form BA 12 or 13 that the new building has been erected in accordance with the plans approved, the Building Authority (BA) takes the view that authorized persons (AP)/registered structural engineers (RSE)/registered geotechnical engineer (RGE) should submit and secure approval of amendment plans in advance of an application for OP. The exception is that minor positional deviations from the approved plans which do not contravene the Buildings Ordinance, Cap. 123 and Regulations may be acceptable.

### **Submission of Record Plans**

3. Where several alterations have been made to the original design, the BA may require, under Building (Administration) Regulation 46, the submission of "new plans" showing the building as completed.

4. However, for those projects where amendments to the original building plans have subsequently been approved, APs should submit a set of general building plans with the application for occupation permit, amalgamating all the plans approved by the BA and thereby representing the building as completed. Each of those plans should bear either the signed and dated approval chop applied by the BA or a chop giving the AP's personal certification of the plans being identical to those approved by the BA on the date specified. To limit the volume of paper, the BA would accept plans photographically reduced to not less than a ratio of 1:200.
5. Record plans should not contain any amendments which have not been approved.
6. In addition, the Commissioner of Rating and Valuation (CRV) has requested that, for all newly completed buildings, one set of record plans be supplied to him for rating purposes. As record plans are now mostly produced from computer softwares such as AutoCAD or Microstation, the CRV would welcome if AP could also submit, on a voluntary basis, a CD-ROM containing the softcopy of the record plans in AutoCAD or Microstation format. The CRV has committed that the CD-ROM and the softcopy of the record plans will only be used for relevant rating purposes and will not be released to other Departments or parties. If AP is willing to facilitate CRV in discharging his duty, the additional set of plans, together with the CD-ROM (the frontage is marked with "CD-ROM containing plans for the CRV") if any, may be included in the submission to the Buildings Department for transmission to the CRV.

### **Submission of Schedule of Building Materials and Products**

7. Under the Buildings Ordinance, the AP, RSE, RGE and registered contractor (RC) have responsibilities to supervise building works including the selection and application of building materials and to certify compliance with relevant provisions of the Buildings Ordinance upon completion of works. To expedite the processing of an application for OP, the BA requires the submission of a schedule under Building (Administration) Regulation 44, confirming the use of accepted building materials and products in construction.
8. The schedule should be submitted with an application for OP. The AP should confirm and certify in the schedule the application and performance of building materials and products in compliance with the relevant provisions of the Buildings Ordinance and Regulations; the RC should confirm the use of those building materials and products in construction. Except for regularly used building materials, the schedule should cover all materials and products not specified on the approved plans, the application of which would involve the structural integrity and fire safety of the building, and the cast iron pipes and fittings as stipulated in Practice Note for Authorized Persons and Registered Structural Engineers 282. A sample schedule is provided at Appendix A.

9. Where appropriate, a schedule should also be submitted on completion of building works not resulting in a new building, such as alteration and addition works to an existing building.

(CHEUNG Hau-wai)  
Building Authority

Ref. : BD GP/BORD/10 (IV)  
BD GR/OP/4/M  
BD GR/OA/177  
BD GR/BORD/93(II)

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Index under : Record Plans

Schedule of Building Materials and Products

Submission of Amended Building Plans and Application for an  
Occupation Permit Simultaneous

Submission of Record Plans

Submission of Schedule of Building Materials and Products

Form BA 14

Form BA14A



# PNAP 53 Appendix A

## Certificate of Accepted Building Materials and Products

### Certificate of Accepted Building Materials and Products

BD Ref. : \_\_\_\_\_ Date : \_\_\_\_\_

Re : \_\_\_\_\_  
(Address of development site)

To the Building Authority,

#### Part A (to be certified by AP)

I, (name in full) \_\_\_\_\_, authorized person, confirm that accepted building materials and products have been specified in the above building construction. Pursuant to Building (Administration) Regulation 44, I duly endorse the attached Schedule of Building Materials and Products (Annex A. 1 & A. 2).

2. I hereby certify that the building materials and products listed in the attached Schedule are acceptable products under relevant building regulations and that I am satisfied with the application and performance of these products.

\_\_\_\_\_  
Signature of authorized person

Certificate of Registration No.: \_\_\_\_\_

Date of expiry of registration: \_\_\_\_\_

#### Part B (to be certified by RC)

3. \*I/We, (name in full) \_\_\_\_\_, \* registered general building contractor/registered specialist contractor in the \*\* \_\_\_\_\_ category, hereby confirm that the accepted building materials and products listed in the attached Schedule have been used and properly applied in the above building construction.

\_\_\_\_\_  
Name of the person appointed to act for the registered contractor for the above works

\_\_\_\_\_  
Signature

Certificate of Registration No.: \_\_\_\_\_

Date of expiry of registration: \_\_\_\_\_

\* Delete whichever is inapplicable

\*\* Enter the name of the sub-register for the category of specialized work

(Rev. 12/2005)



# PNAP 53 Appendix A Part A (to be certified by AP)

**Appendix A  
(PNAP 53)**

## **Certificate of Accepted Building Materials and Products**

BD Ref. : \_\_\_\_\_ Date : \_\_\_\_\_

Re : \_\_\_\_\_  
(Address of development site)

To the Building Authority,

### **Part A (to be certified by AP)**

I, (name in full) \_\_\_\_\_, authorized person, confirm that accepted building materials and products have been specified in the above building construction. Pursuant to Building (Administration) Regulation 44, I duly endorse the attached Schedule of Building Materials and Products (Annex A. 1 & A. 2).

2. I hereby certify that the building materials and products listed in the attached Schedule are acceptable products under relevant building regulations and that I am satisfied with the application and performance of these products.

\_\_\_\_\_  
Signature of authorized person

Certificate of Registration No.:

Date of expiry of registration:

\_\_\_\_\_  
\_\_\_\_\_



# PNAP 53 Appendix A Part B (to be certified by RC)

## Part B (to be certified by RC)

3.            \*I/We, (name in full) \_\_\_\_\_,  
\* registered general building contractor/registered specialist contractor in the  
\*\* \_\_\_\_\_ category, hereby confirm that the accepted building materials and  
products listed in the attached Schedule have been used and properly applied in the  
above building construction.

\_\_\_\_\_  
Name of the person appointed to  
act for the registered contractor  
for the above works

\_\_\_\_\_  
Signature

Certificate of Registration No.:

Date of expiry of registration:

\* Delete whichever is inapplicable

\*\* Enter the name of the sub-register for the category of specialized work

(Rev. 12/2005)

Schedule of Building Materials and Products

Re : \_\_\_\_\_  
 (Address of development site)

(A) Fire Resisting Products

Building Product	Product Name	Name of Manufacturer and Place of Manufacture (City and Country)	Fire Resisting Performance <sup>#</sup> (minutes)		Compliance with Relevant Building Regulations & Codes of Practice	Details of Test or Assessment Report					Remarks/ Comments	
			Integrity	Insulation		Name of laboratory accreditation body	Name of laboratory / assessing organization	Report no.	Date of test / assessment report	Validity date		
a) Fire resisting doorset	*											
b) Lift landing door	*											
c) Fire resisting glazing	*											
d) Fire-stop or sealing system in wall/floor/curtain wall, etc												
e) Others (e.g. proprietary products, fire shutter, etc)												

# The performance on stability has to be demonstrated where applicable.

\* Corresponding legend in approved plan should be specified where applicable

\_\_\_\_\_  
 Signature of Authorized Person

\_\_\_\_\_  
 Date

## Schedule of Building Materials and Products (cont'd)

## (B) Other Building Materials and Products

Building Product	Product Name	Name of Manufacturer and Place of Manufacture (City and Country)	Compliance with Relevant Building Regulations & Codes of Practice	Details of Test or Assessment Report					Remarks/ Comments
				Name of laboratory accreditation body	Name of laboratory / assessing organization	Report no.	Date of test / assessment report	Validity date	
a) Glazing barrier									
b) Cast iron pipes and fittings									
c) Others									

I confirm that the above mentioned building products have been tested or assessed as stated and hereby certify that the application and performance of these products comply with the relevant Building Regulations.

\_\_\_\_\_  
Signature of Authorized Person

\_\_\_\_\_  
Date

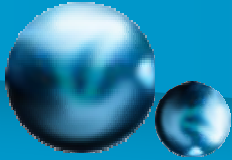


# PNAP 53 Major Issues

## Submission of Schedule of Building Materials and Products

7. Under the Buildings Ordinance, the AP, RSE, RGE and registered contractor (RC) have responsibilities to supervise building works including the selection and application of building materials and to certify compliance with relevant provisions of the Buildings Ordinance upon completion of works. To expedite the processing of an application for occupation permit, the BA requires the submission of a schedule under Building (Administration) Regulation 44, confirming the use of accepted building materials and products in construction.

- to be continued



# PNAP 53 Major Issues

## Submission of Schedule of Building Materials and Products

8. The schedule should be submitted with an **application for occupation permit**. The **AP should confirm and certify in the schedule the application and performance** of building materials and products **in compliance** with the relevant provisions of the Buildings Ordinance and Regulations; the **RC should confirm the use** of those building materials and products **in construction**. Except for regularly used building materials, the schedule should cover all materials and products not specified on the approved plans, the application of which would involve the structural integrity and fire safety of the building, and the cast iron pipes and fittings as stipulated in Practice Note for Authorized Persons and Registered Structural Engineers 282. A sample schedule is provided at Appendix A.
  
9. **Where appropriate**, a schedule should also be submitted on completion of **alteration and addition works**.



# PNAP 53 Annex A.2

## Schedule of Building Materials and Products

### Reference Sample

Annex A.2

#### Schedule of Building Materials and Products (cont'd)

#### (B) Other Building Materials and Products

Building Product	Product Name	Name of Manufacturer and Place of Manufacture (City and Country)	Compliance with Relevant Building Regulations & Codes of Practice	Details of Test or Assessment Report					Remarks/ Comments
				Name of laboratory accreditation body	Name of laboratory / assessing organization	Report no.	Date of test / assessment report	Validity date	
a) Glazing barrier									
b) Cast iron pipes and fittings	Cast Iron Pipes for Drainage Works	Cheung Hing Foundry Limited (Hubei, China) & Asia Development (HK) Limited (Guangxi, China)	Chapter 123 Section 28(1)	HKAS/ HOKLAS	Castco Testing Centre Limited	Refer to attached test reports	Refer to attached test reports	N/A	Comply with requirement
c) Others									

I confirm that the above mentioned building products have been tested or assessed as stated and hereby certify that the application and performance of these products comply with the relevant Building Regulations.

\_\_\_\_\_  
Signature of Authorized Person

\_\_\_\_\_  
Date



# Testing of Building Materials

## Testing of Building Materials

Authorized Persons (APs) and Registered Structural Engineers (RSEs) may be approached from time to time for advice on the acceptability of building materials and proprietary fire resisting products. This practice note sets out the Building Authority's position which may be of assistance to APs and RSEs in preparing advice to manufacturers, suppliers, registered general building contractors, registered specialist contractors and building owners.

2. Under the Buildings Ordinance (BO), APs, RSEs and registered contractors (RC) have responsibilities to supervise building works including the selection and application of building materials/products and to certify compliance with relevant provisions of the BO upon completion of works. In this connection, it should be noted that the BO contains no provision whereby the Building Authority may issue a certificate, a test or assessment report with respect to these materials/products. The Building Authority takes the position, therefore, of relying on APs, RSEs and independent laboratories for testing for compliance with standards and for certification. For certification of the building materials / products used and their compliance with standards, upon completion of works, please refer to PNAP 53.

3. **The Building Authority will recognize those laboratories accredited by the Hong Kong Laboratory Accreditation Scheme (HOKLAS) or by other laboratory accreditation bodies which have reached mutual recognition agreements/arrangements with HOKLAS.** You may find such laboratory accreditation bodies at the web site of the Hong Kong Accreditation Service – <http://www.info.gov.hk/itc/eng/quality/hkas/hkas.shtml>. You should ensure that the tests conducted by an accredited laboratory are within its scope of accreditation.

4. The following list of materials/products, which is not exhaustive, would normally be required to be tested by accredited laboratories as mentioned in paragraph 3: -

- (a) Concrete cube and core;
- (b) Steel reinforcement
- (c) Reinforcement splices/couplers;
- (d) Curtain wall systems; and
- (e) Fire resisting products.

## **Proprietary Fire Resisting Products**

5. In establishing the acceptability of proprietary fire resisting products, reference should be made to the performance standards as laid down in Building (Construction) Regulation 90 and the current Code of Practice for Fire Resisting Construction issued by the Building Authority. This is of particular relevance to compartment walls, protective cover to structural steel, fire resisting doors and other building materials for use in fire resisting construction.

6. As to compliance with the above requirements, reliance can also be placed on a test or assessment report prepared by an accredited laboratory as mentioned in paragraph 3 above. The Building Authority will rely on APs or RSEs to ensure that the test or assessment reports are prepared by accredited laboratories and that the reports are still within their validity period.

## **Assessing Organizations**

7. At present there are 3 assessing organizations, which are not accredited laboratories but are recognized for assessment, on the list of recognized laboratories/assessing organizations compiled by the Building Authority and promulgated in the letter dated 25 July 1994 to all APs, RSEs and RCs. They are: -

- (a) Building Research Establishment (UK),
- (b) International Fire Consultants Ltd. (UK) {limited to assessment reports endorsed by Mr Peter E Jackman} and
- (c) Warrington Fire Research Consultants (UK).

8. With the issue of this practice note, the list described in paragraph 7 above will cease to have effect. However the assessment reports on fire resisting products prepared by the 3 organizations above will continue to be acceptable until further notice.

( C M LEUNG )  
Building Authority

Ref. : BD GR/BM/5(2)(II)

First issue October 2001 (AD/Support)

Index under : HOKLAS

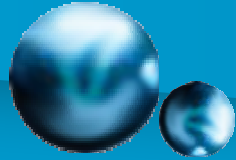
List of testing laboratories

Material testing



# PNAP 251 Major issue

The Building Authority will recognize those laboratories accredited by the Hong Kong Laboratory Accreditation Scheme (HOKLAS) or by other laboratory accreditation bodies which have reached mutual recognition agreements/ arrangements with HOKLAS.



**HOKLAS Accredited Laboratory**

# Certificate of Accreditation



**Hong Kong Accreditation Service**

香港認可處

*This is to certify that*

**CASTCO TESTING CENTRE LTD.**

at the address of **29A, On Chuen Street, On Lok Tsuen, Fanling,**

**New Territories, Hong Kong.**

*has been accepted by the HKAS Executive,*

*on the recommendation of the Accreditation Advisory Board, as a*

**HOKLAS Accredited Laboratory**

*This laboratory meets the requirements of ISO/IEC 17025:1999 – General Requirements for the Competence of Testing and Calibration Laboratories and it has been accredited for performing specific tests or calibrations as listed in the HOKLAS Directory of Accredited Laboratories within the Test Category of*

**CONSTRUCTION MATERIALS**

*The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive.*

**(DR. L.H. NG)**  
Executive Administrator

Registration Number  
**HOKLAS** 032

Issue Date :  
**21 DECEMBER 2001**

Date of First Registration :  
**28 NOVEMBER 1990**

*This Certificate is issued subject to the terms and conditions laid down by HKAS.*

F 000042

COPY





RQA 1/003/25

Tel No. 2829 4870

20 September 2005

Mr. Ken Wong,  
General Manager,  
Cheung Hing Foundry Limited,  
11-13, Yung Yuen Road,  
Ping Shan, Yuen Long,  
Hong Kong

Dear Mr. Wong,

**PNAP 282 Cast Iron Pipes for Drainage Works of Buildings Department**

I refer to your two letters dated 6 September 2005 and the attached HOKLAS endorsed test reports issued by Castco Testing Centre Ltd.

Hong Kong Accreditation Service (HKAS) of the Hong Kong SAR Government is recognized in the Buildings Department's PNAP 251 entitled "Testing of Building Materials" as the accreditation body for laboratories. HOKLAS endorsed test reports issued by laboratories accredited by HKAS under HOKLAS is one of the means of achieving compliance with the relevant standards for the products under testing. Your enclosed test reports issued by Castco Testing Centre Ltd are HOKLAS endorsed and therefore are recognized as a means of compliance with the respective standards as stated in the Buildings Department's PNAP 282.

I hope the above information will be useful to you. If you have any further questions, please do not hesitate to contact the undersigned.

Yours sincerely,

(C K Cheung)

for Executive Administrator



RQA 1/003/25

Tel No. 2829 4870

20 September 2005

Mr. C S Wong,  
Director,  
Asia Development (HK) Limited,  
1702-3, Kai Wong Commercial Building,  
222-226, Queen's Road Central,  
Hong Kong

Dear Mr. Wong,

**PNAP 282 Cast Iron Pipes for Drainage Works of Buildings Department**

I refer to your letter dated 31 August 2005 ref. HKAS20050831 and the attached HOKLAS endorsed test reports issued by Castco Testing Centre Ltd and Nutek Systems Ltd.

Hong Kong Accreditation Service (HKAS) of the Hong Kong SAR Government is recognized in the Buildings Department's PNAP 251 entitled "Testing of Building Materials" as the accreditation body for laboratories. HOKLAS endorsed test reports issued by laboratories accredited by HKAS under HOKLAS is one of the means of achieving compliance with the relevant standards for the products under testing. Your enclosed test reports issued by Castco Testing Centre Ltd and Nutek Systems Ltd are HOKLAS endorsed and therefore are recognized as a means of compliance with the respective standards as stated in the Buildings Department's PNAP 282.

I hope the above information will be useful to you. If you have any further questions, please do not hesitate to contact the undersigned.

Yours sincerely,

(C K Cheung)

for Executive Administrator



註冊證明書  
《商標條例》(第 559 章)  
CERTIFICATE OF REGISTRATION  
Trade Marks Ordinance (Chapter 559)

茲證明下述商標之詳情於今日記入註冊紀錄冊。  
I hereby certify that the Trade Mark with the following particulars has been entered in the register today:

商標編號: 300317600  
Trade Mark No.:

商標:  
Mark: CHF- 

商標種類: Ordinary  
Mark Type:

商標描述: N/A  
Mark Description:

一系列商標: No  
Series Mark:

擁有人姓名/名稱、  
地址:  
Owner(s)' Name,  
Address: CHEUNG HING FOUNDRY LIMITED  
11-13 YUNG YUEN ROAD, PING SHAN,  
YUEN LONG, NEW TERRITORIES,  
HONG KONG.

擁有人的送達地址:  
Owner(s)' Address for  
Service: SIMON C.W. YUNG & CO.  
21/F., HING YIP COMMERCIAL CENTRE,  
272-284 DES VOEUX ROAD CENTRAL,  
HONG KONG.

類別及貨品/服務說明:  
Class(es) & Specification(s): Class 6  
iron pipes and fittings thereof, manhole covers, channel gratings,  
tree grilles and parts thereof; all included in Class 6.

卸棄:  
Disclaimer: N/A

限制:  
Limitation: N/A

Trade Mark No. 300317600

條件:  
Condition: N/A

其他:  
Others: N/A

註冊日期:  
Date of Registration: 11 November, 2004

聲稱具有優先權的日期:  
Dates of Priority Claimed: N/A

優先權申請編號:  
Priority Application No.: N/A

優先權申請的  
國家、地區、地方:  
Country, Territory, Area of  
Priority Applications: N/A

日期: 二〇〇五年五月十七日  
Dated this 17 May, 2005

商標註冊處處長謝肅方  
Stephen Selby  
Registrar of Trade Marks

註:  
Note:

- 註冊由上述註冊日期起計為期 10 年。在該期間屆滿時，可再每次續期 10 年。  
Registration is for a period of 10 years beginning on the date of registration. At the end of that period, it may be renewed successively for further periods of 10 years.
- 本證明書不可用於法律程序，或用以取得外地註冊。  
This certificate is not for use in legal proceedings or for obtaining registration abroad.
- 本商標的所有權如有改變，或擁有人的姓名/名稱及/或地址改變，必須立刻向處長申請將改變註冊。  
Upon any change of ownership of this trade mark, or change of name and/or address of the registered owner, application should AT ONCE be made to the Registrar to register the change.



Beijing Grand Honour Management System Certification Co., Ltd.  
(China Metallurgical Industry Quality System Certification Center)

**QUALITY MANAGEMENT SYSTEM CERTIFICATE**

Hereby certifies that

**Liuzhou Lizhi Foundry Co., Ltd.**

(Add: Jinglan Industry Developing Zone, Xijiang Road, Liuzhou City,  
Guangxi Province, China. Post Code: 545006)

**Has established and applied a quality management system for the whole process of design, development, production and servicing of the casting iron pipes, iron castings and relative machined casting products.**

The quality management system is in conformity with

**GB/T19001-2000—ISO 9001:2000 standard.**

Certificate registration: 02205Q10085R2M  
Issuing date: Sep. 16, 2005  
Effective date: from Sep. 16, 2005  
to Sep. 15, 2008



*[Signature]*  
(Authorized Representative)



Registration Number: CNAB022-Q

Accredited  
by Member of the  
IAF & PAC MLA  
for QMS

**CERTIFICATE OF REGISTRATION**



MOODY INTERNATIONAL CERTIFICATION

*This is to certify that the  
Quality Management Systems of:*

**Wuhan Metalex Company Limited**

**No. 8, Industrial Avenue, Jinkou Street, Jiangxia District,  
Wuhan, Hubei Province, P. R. China**

*has been assessed and found complying with*

**ISO 9001:2000**

*Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times. This certification has been accredited by a member of International Accreditation Forum MLA for Quality Management System.  
The certificate is not valid until the annual surveillance mark is presented.*

**CERTIFICATION SCOPE:**

*Production and Sales of Grey Cast Iron and Ductile Iron Pipe Fittings, Manhole Covers, Spear, Small & Medium Sized Abrasion Resistant and Anti-corrosion Cast Steel Products.*

**REGISTRATION NUMBER: 0103044**



014

For the Company *[Signature]*

For the Governing Board *[Signature]*

**ORIGINAL ISSUE DATE: March 30, 2001  
RE-ISSUE DATE: June 16, 2005  
VALID UNTIL: June 15, 2008**

*The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the Accreditation Certificate 014. The certificate remains the property of Moody International Certification Limited to whom it must be returned on request.*

