Please address any correspondence to Water Supply (Network) Department

Your Ref: 

Our Ref: WSN 92413/90  
Tel: 67313160  
Fax: 67313023  
E-mail: michael_toh@pub.gov.sg

Date: 2 Jun 15

To Suppliers of Water Fittings, Licensed Plumbers, PEs, Relevant Government Agencies and Associations

Dear Sir/Madam

LATEST SPECIFICATIONS FOR CEMENT LINED DUCTILE IRON PIPES COMPLYING WITH BS EN 545:2010

I refer to our circulars of 6 Dec 13 and 13 Aug 12 on stipulation of Standards and requirements for cement lined ductile iron (DI) pipes and fittings for potable water use.

2. Currently, PUB adopts BS EN 545:2010 for cement lined ductile iron (DI) pipes and fittings for potable water use. With effect from 1 Sep 2015, only the following pipe sizes and Classes of cement lined DI pipes and fittings as listed in Table below shall be allowed for display, advertisement, sale, supply and installation in potable water service installations in Singapore. This is to ensure that suitable pipe Classes with the respective sizes are being put into use for potable water supply. We would like to remind that BS EN 545:2006 is obsolete and K9 pressure class pipes are no longer specified in BS EN 545:2010.

<table>
<thead>
<tr>
<th>Nominal Diameter (DN)</th>
<th>Pipe Classes under BS EN 545:2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤150mm</td>
<td>C100</td>
</tr>
<tr>
<td>200 to 250mm</td>
<td>C64 or C100</td>
</tr>
<tr>
<td>300mm</td>
<td>C50 or C64 or C100</td>
</tr>
</tbody>
</table>

3. In addition, to ensure the integrity of the cement lining of DI pipes and fittings complying with BS EN 545:2010 for the supply of potable water, only cement lined DI pipes and fittings listed in above Table which have been tested for compliance with BS EN 545:2010 and the following tests under BS EN 598:2007:

a) Clause 5.3 - Diametral Stiffness of Pipe test
b) Clause 5.9 - Abrasion Resistance test

shall be allowed for display, advertisement, sale, supply and installation in potable water service installations in Singapore. This will also take effect from
1 Sep 2015. For more information on amendments to the Standards and requirements for cement lined DI pipes and fittings, please refer to PUB website at www.pub.gov.sg. Professional Engineers (PEs) and Licensed Plumbers shall only use cement lined DI pipes/fittings complying with BS EN 545:2010 as shown in the above Table and which have also been tested to comply with the above 2 tests under BS EN 598:2007 should they use such pipes/fittings for potable water supply projects. Suppliers are reminded to ensure that the markings on the pipes/fittings comply with BS EN 545:2010.

4 You can contact any of the following test laboratories for the testing on the above 2 tests under BS EN 598:2007:

a) TUV SUD PSB Pte Ltd
   1 Science Park Drive
   Singapore 118221

b) Setsco Services Pte Ltd
   No. 18 Teban Garden Crescent
   Singapore 608925

c) Singapore Laboratory Services Pte Ltd
   64 Tuas South Ave 2
   Singapore 637525

Test reports from any of the above test laboratories or from Singapore Accreditation Council (SAC) SINGLAS’s Mutual Recognition Agreement (MRA) partners as proof of compliance for the above 2 tests can be accepted.

5 Please disseminate the information to your suppliers/retailers/members and ensure compliance to the new requirements. If you have any clarifications, please do not hesitate to contact any of the officers below.

<table>
<thead>
<tr>
<th>Name of Officer</th>
<th>Email</th>
<th>Contact no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christopher Chua</td>
<td><a href="mailto:christopher_chua@pub.gov.sg">christopher_chua@pub.gov.sg</a></td>
<td>67313669</td>
</tr>
<tr>
<td>Noryati Abdullah</td>
<td><a href="mailto:noryati_abdullah@pub.gov.sg">noryati_abdullah@pub.gov.sg</a></td>
<td>65172925</td>
</tr>
</tbody>
</table>
Yours faithfully

Michael Toh
Director
Water Supply (Network) Department

cc  TUV SUD PSB Pte Ltd
    1 Science Park Drive
    Singapore 118221
    Attn: Mr Cha Ming Yang

    Setsco Services Pte Ltd
    18 Teban Gardens Crescent
    Singapore 608925
    Attn: Mr Yusoof Aynuddin/Chen Yu

    Singapore Laboratory Services Pte Ltd
    64 Tuas South Ave 2
    Singapore 637525
    Attn: Mr Patrick Chua Peck Cheong/Mr Jimmy Lee Shen Sun

    Singapore Sanitary Ware
    Importers & Exporters Association
    Singapore Post Centre
    P.O. Box No. 357
    Singapore 914012
    Attn: Mr Amos Phua